# LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

# ADMINISTRATIVE RECORD

**Volume 8**

**2025**

**Bate Stamp Numbers**
**01301704 – 01303642**

**Prepared for**

**Department of the Army**
**Longhorn Army Ammunition Plant**

**1976–2025**

***LONGHORN ARMY AMMUNITION PLANT***
***KARNACK, TEXAS***
**ADMINISTRATIVE RECORD – CHRONOLOGICAL INDEX**

VOLUME 8

2025

| | | |
|---|---|---|
| A. | Title: | (Cont'd) Report – Appendix C labs File 2 to Draft Quarterly Evaluation Report, 2nd Quarter (April–June) 2024 Groundwater Treatment Plant, Longhorn Army Ammunition Plant, Karnack, Texas |
| | Author(s): | PCI-Bhate JV |
| | Recipient: | Longhorn Army Ammunition Plant |
| | Date: | March 7, 2025 |
| | Bate Stamp: | 01301704–01303152 |

| | | |
|---|---|---|
| B. | Title: | (Cont'd) Report – Appendix C labs File 3 to Draft Quarterly Evaluation Report, 2nd Quarter (April–June) 2024 Groundwater Treatment Plant, Longhorn Army Ammunition Plant, Karnack, Texas |
| | Author(s): | PCI-Bhate JV |
| | Recipient: | Longhorn Army Ammunition Plant |
| | Date: | March 7, 2025 |
| | Bate Stamp: | 01303153–01303642 |

**Project** HS24061196
**Workorder** 3366027

## Detected Results Summary

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-01 | Collected | 06/18/2024 07:10 |
| Lab Sample ID | 3366027001 | Lab Receipt | 06/26/2024 09:36 |

| Compound | Result | Units | LOQ | LOD | DL | Method | Flag |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANICS** | | | | | | | |
| 1,1,2-Trichloroethane | 0.57J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |
| 1,1-Dichloroethene | 5.4 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |
| Benzene | 0.72J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |
| Chloroform | 24.8 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |
| cis-1,2-Dichloroethene | 5.7 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |
| Tetrachloroethene | 2.1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |
| Trichloroethene | 2060 | ug/L | 50.0 | 37.5 | 16.5 | SW846 8260D | # |



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**Project** HS24061196
**Workorder** 3366027

## Detected Results Summary

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-03 | Collected | 06/18/2024 08:45 |
| Lab Sample ID | 3366027003 | Lab Receipt | 06/26/2024 09:36 |

| Compound | Result | Units | LOQ | LOD | DL | Method | Flag |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANICS** | | | | | | | |
| Chloromethane | 0.34J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |
| Trichloroethene | 11.2 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |



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**Project** HS24061196
**Workorder** 3366027

## Detected Results Summary

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-04 | Collected | 06/18/2024 09:30 |
| Lab Sample ID | 3366027004 | Lab Receipt | 06/26/2024 09:36 |

| Compound | Result | Units | LOQ | LOD | DL | Method | Flag |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANICS** | | | | | | | |
| Trichloroethene | 1.1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |



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**Project** HS24061196
**Workorder** 3366027

## Detected Results Summary

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-06 | Collected | 06/18/2024 10:15 |
| Lab Sample ID | 3366027006 | Lab Receipt | 06/26/2024 09:36 |

| Compound | Result | Units | LOQ | LOD | DL | Method | Flag |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANICS** | | | | | | | |
| Trichloroethene | 0.65J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |



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**Project** HS24061196
**Workorder** 3366027

## Detected Results Summary

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-10 | Collected | 06/18/2024 12:30 |
| Lab Sample ID | 3366027010 | Lab Receipt | 06/26/2024 09:36 |

| Compound | Result | Units | LOQ | LOD | DL | Method | Flag |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANICS** | | | | | | | |
| Trichloroethene | 0.54J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |



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**Project** HS24061196
**Workorder** 3366027

## Detected Results Summary

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-11 | Collected | 06/18/2024 00:00 |
| Lab Sample ID | 3366027011 | Lab Receipt | 06/26/2024 09:36 |

| Compound | Result | Units | LOQ | LOD | DL | Method | Flag |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANICS** | | | | | | | |
| Trichlorofluoromethane | 2.8 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-01 | Collected | 06/18/2024 07:10 |
| Lab Sample ID | 3366027001 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,1,2-Trichloroethane | 0.57J | J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,1-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,1-Dichloroethene | 5.4 | | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,2-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Benzene | 0.72J | J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Chloroform | 24.8 | | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Chloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| cis-1,2-Dichloroethene | 5.7 | | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-01 | Collected | 06/18/2024 07:10 |
| Lab Sample ID | 3366027001 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Tetrachloroethene | 2.1 | | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Trichloroethene | 2060 | | ug/L | 50.0 | 37.5 | 16.5 | SW846 8260D | 50 | 06/28/2024 18:12 | TMP | B |
| Trichlorofluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Vinyl Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 108% | 81 – 118 | 06/28/2024 18:12 | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 106% | 81 – 118 | 06/28/2024 00:56 | |
| 4-Bromofluorobenzene | 460-00-4 | 102% | 85 – 114 | 06/28/2024 18:12 | |
| 4-Bromofluorobenzene | 460-00-4 | 98.2% | 85 – 114 | 06/28/2024 00:56 | |
| Dibromofluoromethane | 1868-53-7 | 97.2% | 80 – 119 | 06/28/2024 18:12 | |
| Dibromofluoromethane | 1868-53-7 | 94% | 80 – 119 | 06/28/2024 00:56 | |
| Toluene-d8 | 2037-26-5 | 104% | 89 – 112 | 06/28/2024 18:12 | |
| Toluene-d8 | 2037-26-5 | 98.3% | 89 – 112 | 06/28/2024 00:56 | |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-02 | Collected | 06/18/2024 08:00 |
| Lab Sample ID | 3366027002 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,1,2-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,1-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,1-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,2-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Benzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Chloroform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Chloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| cis-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-02 | Collected | 06/18/2024 08:00 |
| Lab Sample ID | 3366027002 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Tetrachloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Trichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Trichlorofluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Vinyl Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 99.2% | 81 – 118 | 06/28/2024 13:06 | |
| 4-Bromofluorobenzene | 460-00-4 | 99.6% | 85 – 114 | 06/28/2024 13:06 | |
| Dibromofluoromethane | 1868-53-7 | 91.2% | 80 – 119 | 06/28/2024 13:06 | |
| Toluene-d8 | 2037-26-5 | 100% | 89 – 112 | 06/28/2024 13:06 | |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-03 | Collected | 06/18/2024 08:45 |
| Lab Sample ID | 3366027003 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,1-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,1-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,2-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Benzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Chloroform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Chloromethane | 0.34J | J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-03 | Collected | 06/18/2024 08:45 |
| Lab Sample ID | 3366027003 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Tetrachloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Trichloroethene | 11.2 | | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Trichlorofluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Vinyl Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 103% | 81 – 118 | 06/28/2024 01:37 | |
| 4-Bromofluorobenzene | 460-00-4 | 102% | 85 – 114 | 06/28/2024 01:37 | |
| Dibromofluoromethane | 1868-53-7 | 92.3% | 80 – 119 | 06/28/2024 01:37 | |
| Toluene-d8 | 2037-26-5 | 103% | 89 – 112 | 06/28/2024 01:37 | |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-04 | Collected | 06/18/2024 09:30 |
| Lab Sample ID | 3366027004 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,1-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,1-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,2-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Benzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Chloroform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Chloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-04 | Collected | 06/18/2024 09:30 |
| Lab Sample ID | 3366027004 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Tetrachloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Trichloroethene | 1.1 | | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Trichlorofluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Vinyl Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 109% | 81 – 118 | 06/28/2024 01:58 | |
| 4-Bromofluorobenzene | 460-00-4 | 97% | 85 – 114 | 06/28/2024 01:58 | |
| Dibromofluoromethane | 1868-53-7 | 98% | 80 – 119 | 06/28/2024 01:58 | |
| Toluene-d8 | 2037-26-5 | 102% | 89 – 112 | 06/28/2024 01:58 | |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-05 | Collected | 06/18/2024 10:15 |
| Lab Sample ID | 3366027005 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,1-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,1-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,2-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Benzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Chloroform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Chloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-05 | Collected | 06/18/2024 10:15 |
| Lab Sample ID | 3366027005 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Tetrachloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Trichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Trichlorofluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Vinyl Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 104% | 81 – 118 | 06/28/2024 02:18 | |
| 4-Bromofluorobenzene | 460-00-4 | 98.3% | 85 – 114 | 06/28/2024 02:18 | |
| Dibromofluoromethane | 1868-53-7 | 95.3% | 80 – 119 | 06/28/2024 02:18 | |
| Toluene-d8 | 2037-26-5 | 103% | 89 – 112 | 06/28/2024 02:18 | |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-06 | Collected | 06/18/2024 10:15 |
| Lab Sample ID | 3366027006 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,1-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,1-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,2-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Benzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Chloroform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Chloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-06 | Collected | 06/18/2024 10:15 |
| Lab Sample ID | 3366027006 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Tetrachloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Trichloroethene | 0.65J | J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Trichlorofluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Vinyl Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 110% | 81 – 118 | 06/28/2024 02:38 | |
| 4-Bromofluorobenzene | 460-00-4 | 106% | 85 – 114 | 06/28/2024 02:38 | |
| Dibromofluoromethane | 1868-53-7 | 99.5% | 80 – 119 | 06/28/2024 02:38 | |
| Toluene-d8 | 2037-26-5 | 108% | 89 – 112 | 06/28/2024 02:38 | |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-07 | Collected | 06/18/2024 11:00 |
| Lab Sample ID | 3366027007 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,1-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,1-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,2-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Benzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Chloroform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Chloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-07 | Collected | 06/18/2024 11:00 |
| Lab Sample ID | 3366027007 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Tetrachloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Trichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Trichlorofluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Vinyl Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 105% | 81 – 118 | 06/28/2024 02:59 | |
| 4-Bromofluorobenzene | 460-00-4 | 90.2% | 85 – 114 | 06/28/2024 02:59 | |
| Dibromofluoromethane | 1868-53-7 | 95.5% | 80 – 119 | 06/28/2024 02:59 | |
| Toluene-d8 | 2037-26-5 | 98.8% | 89 – 112 | 06/28/2024 02:59 | |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-08 | Collected | 06/18/2024 11:40 |
| Lab Sample ID | 3366027008 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,1-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,1-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,2-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Benzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Chloroform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Chloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-08 | Collected | 06/18/2024 11:40 |
| Lab Sample ID | 3366027008 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Tetrachloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Trichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Trichlorofluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Vinyl Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 103% | 81 – 118 | 06/28/2024 03:19 | |
| 4-Bromofluorobenzene | 460-00-4 | 103% | 85 – 114 | 06/28/2024 03:19 | |
| Dibromofluoromethane | 1868-53-7 | 94.9% | 80 – 119 | 06/28/2024 03:19 | |
| Toluene-d8 | 2037-26-5 | 102% | 89 – 112 | 06/28/2024 03:19 | |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-09 | Collected | 06/18/2024 11:40 |
| Lab Sample ID | 3366027009 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,1-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,1-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,2-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Benzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Chloroform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Chloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-09 | Collected | 06/18/2024 11:40 |
| Lab Sample ID | 3366027009 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Tetrachloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Trichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Trichlorofluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Vinyl Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 108% | 81 – 118 | 06/28/2024 03:40 | |
| 4-Bromofluorobenzene | 460-00-4 | 100% | 85 – 114 | 06/28/2024 03:40 | |
| Dibromofluoromethane | 1868-53-7 | 98.5% | 80 – 119 | 06/28/2024 03:40 | |
| Toluene-d8 | 2037-26-5 | 108% | 89 – 112 | 06/28/2024 03:40 | |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-10 | Collected | 06/18/2024 12:30 |
| Lab Sample ID | 3366027010 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,1,2-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,1-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,1-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,2-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Benzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Chloroform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Chloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| cis-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-10 | Collected | 06/18/2024 12:30 |
| Lab Sample ID | 3366027010 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Tetrachloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Trichloroethene | 0.54J | J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Trichlorofluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Vinyl Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 99.1% | 81 – 118 | 06/27/2024 17:29 | |
| 4-Bromofluorobenzene | 460-00-4 | 97.1% | 85 – 114 | 06/27/2024 17:29 | |
| Dibromofluoromethane | 1868-53-7 | 97.7% | 80 – 119 | 06/27/2024 17:29 | |
| Toluene-d8 | 2037-26-5 | 97.9% | 89 – 112 | 06/27/2024 17:29 | |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-11 | Collected | 06/18/2024 00:00 |
| Lab Sample ID | 3366027011 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,1-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,1-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,2-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Benzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Chloroform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Chloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |



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**Project** HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-11 | Collected | 06/18/2024 00:00 |
| Lab Sample ID | 3366027011 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Tetrachloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Trichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Trichlorofluoromethane | 2.8 | | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Vinyl Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 101% | 81 – 118 | 06/27/2024 21:53 | |
| 4-Bromofluorobenzene | 460-00-4 | 98.9% | 85 – 114 | 06/27/2024 21:53 | |
| Dibromofluoromethane | 1868-53-7 | 89.3% | 80 – 119 | 06/27/2024 21:53 | |
| Toluene-d8 | 2037-26-5 | 103% | 89 – 112 | 06/27/2024 21:53 | |



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**Project** HS24061196
**Workorder** 3366027

## Sample - Method Cross Reference Table

| Lab ID | Sample ID | Analysis Method | Preparation Method | Leachate Method |
|---|---|---|---|---|
| 3366027001 | HS24061196-01 | SW846 8260D | N/A | |
| | | SW846 8260D | N/A | |
| 3366027002 | HS24061196-02 | SW846 8260D | N/A | |
| 3366027003 | HS24061196-03 | SW846 8260D | N/A | |
| 3366027004 | HS24061196-04 | SW846 8260D | N/A | |
| 3366027005 | HS24061196-05 | SW846 8260D | N/A | |
| 3366027006 | HS24061196-06 | SW846 8260D | N/A | |
| 3366027007 | HS24061196-07 | SW846 8260D | N/A | |
| 3366027008 | HS24061196-08 | SW846 8260D | N/A | |
| 3366027009 | HS24061196-09 | SW846 8260D | N/A | |
| 3366027010 | HS24061196-10 | SW846 8260D | N/A | |
| 3366027011 | HS24061196-11 | SW846 8260D | N/A | |



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**Project** HS24061196
**Workorder** 3366027

# QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS

**QC Batch**

| | | | |
|---|---|---|---|
| QC Batch | 1235282 | Prep Method | N/A |
| Date | N/A | Analysis Method | SW846 8260D |
| Tech. | | | |

**Associated Samples**

3366027010

***Method Blank*** 3845268 (MB) Created on 06/27/2024 11:07 For QC Batch 1235282

*RESULTS*

| Compound | CAS No | | Result | Units | LOQ | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,1-Trichloroethane | 71-55-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,2-Trichloroethane | 79-00-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloroethane | 75-34-3 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloroethene | 75-35-4 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloropropene | 563-58-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,3-Trichlorobenzene | 87-61-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,3-Trichloropropane | 96-18-4 | BLK | 2.5U | ug/L | 5.0 | U |
| 1,2,4-Trichlorobenzene | 120-82-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,4-Trimethylbenzene | 95-63-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | BLK | 2.5U | ug/L | 5.0 | U |
| 1,2-Dibromoethane | 106-93-4 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichlorobenzene | 95-50-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichloroethane | 107-06-2 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichloropropane | 78-87-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3,5-Trimethylbenzene | 108-67-8 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3-Dichlorobenzene | 541-73-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3-Dichloropropane | 142-28-9 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,4-Dichlorobenzene | 106-46-7 | BLK | 0.75U | ug/L | 1.0 | U |
| 2,2-Dichloropropane | 594-20-7 | BLK | 0.75U | ug/L | 1.0 | U |
| 2-Butanone | 78-93-3 | BLK | 3.8U | ug/L | 5.0 | U |
| 2-Hexanone | 591-78-6 | BLK | 3.8U | ug/L | 5.0 | U |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | BLK | 3.8U | ug/L | 5.0 | U |
| Acetone | 67-64-1 | BLK | 3.8U | ug/L | 5.0 | U |
| Benzene | 71-43-2 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromobenzene | 108-86-1 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromochloromethane | 74-97-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromodichloromethane | 75-27-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromoform | 75-25-2 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromomethane | 74-83-9 | BLK | 0.75U | ug/L | 1.0 | U |
| Carbon Disulfide | 75-15-0 | BLK | 0.75U | ug/L | 1.0 | U |
| Carbon Tetrachloride | 56-23-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Chlorobenzene | 108-90-7 | BLK | 0.75U | ug/L | 1.0 | U |
| Chlorodibromomethane | 124-48-1 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloroethane | 75-00-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloroform | 67-66-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloromethane | 74-87-3 | BLK | 0.75U | ug/L | 1.0 | U |
| cis-1,2-Dichloroethene | 156-59-2 | BLK | 0.75U | ug/L | 1.0 | U |



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**Project** HS24061196
**Workorder** 3366027

QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result | Units | LOQ | Qualifiers |
|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 10061-01-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Dibromomethane | 74-95-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Dichlorodifluoromethane | 75-71-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Ethylbenzene | 100-41-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Hexachlorobutadiene | 87-68-3 | BLK | 3.8U | ug/L | 5.0 | U |
| Isopropylbenzene | 98-82-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Methylene Chloride | 75-09-2 | BLK | 0.75U | ug/L | 1.0 | U |
| mp-Xylene | 108383/106423 | BLK | 1.5U | ug/L | 2.0 | U |
| Naphthalene | 91-20-3 | BLK | 0.75U | ug/L | 1.0 | U |
| n-Butylbenzene | 104-51-8 | BLK | 0.75U | ug/L | 1.0 | U |
| n-Propylbenzene | 103-65-1 | BLK | 0.75U | ug/L | 1.0 | U |
| o-Chlorotoluene | 95-49-8 | BLK | 0.75U | ug/L | 1.0 | U |
| o-Xylene | 95-47-6 | BLK | 0.75U | ug/L | 1.0 | U |
| p-Chlorotoluene | 106-43-4 | BLK | 0.75U | ug/L | 1.0 | U |
| p-Isopropyltoluene | 99-87-6 | BLK | 0.75U | ug/L | 1.0 | U |
| sec-Butylbenzene | 135-98-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Styrene | 100-42-5 | BLK | 0.75U | ug/L | 1.0 | U |
| tert-Butylbenzene | 98-06-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Tetrachloroethene | 127-18-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Toluene | 108-88-3 | BLK | 0.75U | ug/L | 1.0 | U |
| trans-1,2-Dichloroethene | 156-60-5 | BLK | 0.75U | ug/L | 1.0 | U |
| trans-1,3-Dichloropropene | 10061-02-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Trichloroethene | 79-01-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Trichlorofluoromethane | 75-69-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Vinyl Chloride | 75-01-4 | BLK | 0.75U | ug/L | 1.0 | U |

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | BLK | 29.30 | 30 | 97.6 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | BLK | 29.10 | 30 | 97 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | BLK | 29.10 | 30 | 96.9 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | BLK | 29.40 | 30 | 98.2 | 89 - 112 | |

***Lab Control Standard*** 3845269 (LCS) Created on 06/27/2024 11:07 For QC Batch 1235282

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | LCS | 23.30 | | 20 | 116 | 78 - 124 | | |
| 1,1,1-Trichloroethane | 71-55-6 | LCS | 21.80 | | 20 | 109 | 74 - 131 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | LCS | 22.90 | | 20 | 115 | 71 - 121 | | |
| 1,1,2-Trichloroethane | 79-00-5 | LCS | 22.40 | | 20 | 112 | 80 - 119 | | |
| 1,1-Dichloroethane | 75-34-3 | LCS | 19.90 | | 20 | 99.7 | 77 - 125 | | |
| 1,1-Dichloroethene | 75-35-4 | LCS | 21.20 | | 20 | 106 | 71 - 131 | | |
| 1,1-Dichloropropene | 563-58-6 | LCS | 21.30 | | 20 | 106 | 79 - 125 | | |



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**Project** HS24061196
**Workorder** 3366027

QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | 87-61-6 | LCS | 23.40 | | 20 | 117 | 69 - 129 | | |
| 1,2,3-Trichloropropane | 96-18-4 | LCS | 21.30 | | 20 | 107 | 73 - 122 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | LCS | 25.20 | | 20 | 126 | 69 - 130 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | LCS | 23.50 | | 20 | 118 | 76 - 124 | | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | LCS | 20.60 | | 20 | 103 | 62 - 128 | | |
| 1,2-Dibromoethane | 106-93-4 | LCS | 22 | | 20 | 110 | 77 - 121 | | |
| 1,2-Dichlorobenzene | 95-50-1 | LCS | 23.10 | | 20 | 116 | 80 - 119 | | |
| 1,2-Dichloroethane | 107-06-2 | LCS | 21 | | 20 | 105 | 73 - 128 | | |
| 1,2-Dichloropropane | 78-87-5 | LCS | 22.10 | | 20 | 110 | 78 - 122 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | LCS | 23.50 | | 20 | 118 | 75 - 124 | | |
| 1,3-Dichlorobenzene | 541-73-1 | LCS | 22.80 | | 20 | 114 | 80 - 119 | | |
| 1,3-Dichloropropane | 142-28-9 | LCS | 22.60 | | 20 | 113 | 80 - 119 | | |
| 1,4-Dichlorobenzene | 106-46-7 | LCS | 22.70 | | 20 | 113 | 79 - 118 | | |
| 2,2-Dichloropropane | 594-20-7 | LCS | 23.20 | | 20 | 116 | 60 - 139 | | |
| 2-Butanone | 78-93-3 | LCS | 110 | | 100 | 110 | 56 - 143 | | |
| 2-Hexanone | 591-78-6 | LCS | 102 | | 100 | 102 | 57 - 139 | | |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | LCS | 103 | | 100 | 103 | 67 - 130 | | |
| Acetone | 67-64-1 | LCS | 121 | | 100 | 121 | 39 - 160 | | |
| Benzene | 71-43-2 | LCS | 21.70 | | 20 | 108 | 79 - 120 | | |
| Bromobenzene | 108-86-1 | LCS | 22.20 | | 20 | 111 | 80 - 120 | | |
| Bromochloromethane | 74-97-5 | LCS | 22.70 | | 20 | 114 | 78 - 123 | | |
| Bromodichloromethane | 75-27-4 | LCS | 22.10 | | 20 | 111 | 79 - 125 | | |
| Bromoform | 75-25-2 | LCS | 19.90 | | 20 | 99.7 | 66 - 130 | | |
| Bromomethane | 74-83-9 | LCS | 19.80 | | 20 | 99 | 53 - 141 | | |
| Carbon Disulfide | 75-15-0 | LCS | 21.60 | | 20 | 108 | 64 - 133 | | |
| Carbon Tetrachloride | 56-23-5 | LCS | 19.10 | | 20 | 95.4 | 72 - 136 | | |
| Chlorobenzene | 108-90-7 | LCS | 23.10 | | 20 | 115 | 82 - 118 | | |
| Chlorodibromomethane | 124-48-1 | LCS | 20.30 | | 20 | 101 | 74 - 126 | | |
| Chloroethane | 75-00-3 | LCS | 20.60 | | 20 | 103 | 60 - 138 | | |
| Chloroform | 67-66-3 | LCS | 21.10 | | 20 | 106 | 79 - 124 | | |
| Chloromethane | 74-87-3 | LCS | 19.10 | | 20 | 95.7 | 50 - 139 | | |
| cis-1,2-Dichloroethene | 156-59-2 | LCS | 22.20 | | 20 | 111 | 78 - 123 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | LCS | 20.50 | | 20 | 103 | 75 - 124 | | |
| Dibromomethane | 74-95-3 | LCS | 21.60 | | 20 | 108 | 79 - 123 | | |
| Dichlorodifluoromethane | 75-71-8 | LCS | 18.30 | | 20 | 91.6 | 32 - 152 | | |
| Ethylbenzene | 100-41-4 | LCS | 22.40 | | 20 | 112 | 79 - 121 | | |
| Hexachlorobutadiene | 87-68-3 | LCS | 24.20 | | 20 | 121 | 66 - 134 | | |
| Isopropylbenzene | 98-82-8 | LCS | 23.90 | | 20 | 120 | 72 - 131 | | |
| Methylene Chloride | 75-09-2 | LCS | 21.70 | | 20 | 109 | 74 - 124 | | |
| mp-Xylene | 108383/106423 | LCS | 46.30 | | 40 | 116 | 80 - 121 | | |
| Naphthalene | 91-20-3 | LCS | 21.60 | | 20 | 108 | 61 - 128 | | |
| n-Butylbenzene | 104-51-8 | LCS | 23.50 | | 20 | 117 | 75 - 128 | | |
| n-Propylbenzene | 103-65-1 | LCS | 22.60 | | 20 | 113 | 76 - 126 | | |
| o-Chlorotoluene | 95-49-8 | LCS | 23.10 | | 20 | 116 | 79 - 122 | | |
| o-Xylene | 95-47-6 | LCS | 23.40 | | 20 | 117 | 78 - 122 | | |
| p-Chlorotoluene | 106-43-4 | LCS | 23.10 | | 20 | 116 | 78 - 122 | | |
| p-Isopropyltoluene | 99-87-6 | LCS | 23.20 | | 20 | 116 | 77 - 127 | | |



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**Project** HS24061196
**Workorder** 3366027

## QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | 135-98-8 | LCS | 23.30 | | 20 | 116 | 77 - 126 | | |
| Styrene | 100-42-5 | LCS | 22.20 | | 20 | 111 | 78 - 123 | | |
| tert-Butylbenzene | 98-06-6 | LCS | 22.50 | | 20 | 113 | 78 - 124 | | |
| Tetrachloroethene | 127-18-4 | LCS | 21.50 | | 20 | 107 | 74 - 129 | | |
| Toluene | 108-88-3 | LCS | 22.20 | | 20 | 111 | 80 - 121 | | |
| trans-1,2-Dichloroethene | 156-60-5 | LCS | 21.70 | | 20 | 109 | 75 - 124 | | |
| trans-1,3-Dichloropropene | 10061-02-6 | LCS | 21.20 | | 20 | 106 | 73 - 127 | | |
| Trichloroethene | 79-01-6 | LCS | 20.70 | | 20 | 103 | 79 - 123 | | |
| Trichlorofluoromethane | 75-69-4 | LCS | 18.90 | | 20 | 94.4 | 65 - 141 | | |
| Vinyl Chloride | 75-01-4 | LCS | 20.60 | | 20 | 103 | 58 - 137 | | |

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | LCS | 29.40 | 30 | 98.2 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | LCS | 29.40 | 30 | 98.2 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | LCS | 29 | 30 | 96.8 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | LCS | 30.10 | 30 | 100 | 89 - 112 | |

***Matrix Spike*** 3845270 (MS) 3366027010 For QC Batch 1235282

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

***Matrix Spike Duplicate*** 3845271 (MSD) 3366027010 For QC Batch 1235282

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | MS | 23.80 | 0 | 20 | 119 | 78 - 124 | | |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | MSD | 22.40 | 0 | 20 | 112 | 78 - 124 | RPD 6.18 (Max-30) | |
| 1,1,1-Trichloroethane | 71-55-6 | MS | 24.70 | 0 | 20 | 123 | 74 - 131 | | |
| 1,1,1-Trichloroethane | 71-55-6 | MSD | 23.20 | 0 | 20 | 116 | 74 - 131 | RPD 6.07 (Max-30) | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | MS | 23 | 0 | 20 | 115 | 71 - 121 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | MSD | 21 | 0 | 20 | 105 | 71 - 121 | RPD 9.25 (Max-30) | |
| 1,1,2-Trichloroethane | 79-00-5 | MS | 22.40 | 0 | 20 | 112 | 80 - 119 | | |
| 1,1,2-Trichloroethane | 79-00-5 | MSD | 21.30 | 0 | 20 | 107 | 80 - 119 | RPD 4.95 (Max-30) | |
| 1,1-Dichloroethane | 75-34-3 | MS | 21.30 | 0 | 20 | 107 | 77 - 125 | | |
| 1,1-Dichloroethane | 75-34-3 | MSD | 19.90 | 0 | 20 | 99.4 | 77 - 125 | RPD 7.06 (Max-30) | |
| 1,1-Dichloroethene | 75-35-4 | MS | 24.30 | 0 | 20 | 121 | 71 - 131 | | |
| 1,1-Dichloroethene | 75-35-4 | MSD | 22.40 | 0 | 20 | 112 | 71 - 131 | RPD 8.30 (Max-30) | |
| 1,1-Dichloropropene | 563-58-6 | MS | 23.70 | 0 | 20 | 119 | 79 - 125 | | |
| 1,1-Dichloropropene | 563-58-6 | MSD | 21.60 | 0 | 20 | 108 | 79 - 125 | RPD 9.24 (Max-30) | |
| 1,2,3-Trichlorobenzene | 87-61-6 | MS | 22 | 0 | 20 | 110 | 69 - 129 | | |
| 1,2,3-Trichlorobenzene | 87-61-6 | MSD | 19.70 | 0 | 20 | 98.7 | 69 - 129 | RPD 10.70 (Max-30) | |
| 1,2,3-Trichloropropane | 96-18-4 | MS | 22.50 | 0 | 20 | 113 | 73 - 122 | | |



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**Project** HS24061196
**Workorder** 3366027

QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | 96-18-4 | MSD | 20.80 | 0 | 20 | 104 | 73 - 122 | RPD 8.10 (Max-30) | |
| 1,2,4-Trichlorobenzene | 120-82-1 | MS | 24.30 | 0 | 20 | 121 | 69 - 130 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | MSD | 22.20 | 0 | 20 | 111 | 69 - 130 | RPD 8.86 (Max-30) | |
| 1,2,4-Trimethylbenzene | 95-63-6 | MS | 24.20 | 0 | 20 | 121 | 76 - 124 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | MSD | 21.30 | 0 | 20 | 106 | 76 - 124 | RPD 13 (Max-30) | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | MS | 20.20 | 0 | 20 | 101 | 62 - 128 | | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | MSD | 19.10 | 0 | 20 | 95.4 | 62 - 128 | RPD 5.76 (Max-30) | |
| 1,2-Dibromoethane | 106-93-4 | MS | 22.30 | 0 | 20 | 111 | 77 - 121 | | |
| 1,2-Dibromoethane | 106-93-4 | MSD | 21.10 | 0 | 20 | 106 | 77 - 121 | RPD 5.32 (Max-30) | |
| 1,2-Dichlorobenzene | 95-50-1 | MS | 23 | 0 | 20 | 115 | 80 - 119 | | |
| 1,2-Dichlorobenzene | 95-50-1 | MSD | 20.30 | 0 | 20 | 102 | 80 - 119 | RPD 12.20 (Max-30) | |
| 1,2-Dichloroethane | 107-06-2 | MS | 22.80 | 0 | 20 | 114 | 73 - 128 | | |
| 1,2-Dichloroethane | 107-06-2 | MSD | 21.40 | 0 | 20 | 107 | 73 - 128 | RPD 5.99 (Max-30) | |
| 1,2-Dichloropropane | 78-87-5 | MS | 23.40 | 0 | 20 | 117 | 78 - 122 | | |
| 1,2-Dichloropropane | 78-87-5 | MSD | 21.60 | 0 | 20 | 108 | 78 - 122 | RPD 8.03 (Max-30) | |
| 1,3,5-Trimethylbenzene | 108-67-8 | MS | 24.30 | 0 | 20 | 121 | 75 - 124 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | MSD | 21.60 | 0 | 20 | 108 | 75 - 124 | RPD 11.80 (Max-30) | |
| 1,3-Dichlorobenzene | 541-73-1 | MS | 22.90 | 0 | 20 | 115 | 80 - 119 | | |
| 1,3-Dichlorobenzene | 541-73-1 | MSD | 20.30 | 0 | 20 | 102 | 80 - 119 | RPD 12 (Max-30) | |
| 1,3-Dichloropropane | 142-28-9 | MS | 23.10 | 0 | 20 | 115 | 80 - 119 | | |
| 1,3-Dichloropropane | 142-28-9 | MSD | 21.60 | 0 | 20 | 108 | 80 - 119 | RPD 6.58 (Max-30) | |
| 1,4-Dichlorobenzene | 106-46-7 | MS | 22.40 | 0 | 20 | 112 | 79 - 118 | | |
| 1,4-Dichlorobenzene | 106-46-7 | MSD | 19.90 | 0 | 20 | 99.4 | 79 - 118 | RPD 11.80 (Max-30) | |
| 2,2-Dichloropropane | 594-20-7 | MS | 22.50 | 0 | 20 | 112 | 60 - 139 | | |
| 2,2-Dichloropropane | 594-20-7 | MSD | 20 | 0 | 20 | 99.9 | 60 - 139 | RPD 11.70 (Max-30) | |
| 2-Butanone | 78-93-3 | MS | 104 | 0 | 100 | 104 | 56 - 143 | | |
| 2-Butanone | 78-93-3 | MSD | 101 | 0 | 100 | 101 | 56 - 143 | RPD 2.82 (Max-30) | |
| 2-Hexanone | 591-78-6 | MS | 100 | 0 | 100 | 100 | 57 - 139 | | |
| 2-Hexanone | 591-78-6 | MSD | 92.40 | 0 | 100 | 92.4 | 57 - 139 | RPD 8 (Max-30) | |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | MS | 102 | 0 | 100 | 102 | 67 - 130 | | |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | MSD | 95.80 | 0 | 100 | 95.8 | 67 - 130 | RPD 6.06 (Max-30) | |
| Acetone | 67-64-1 | MS | 108 | 0 | 100 | 108 | 39 - 160 | | |
| Acetone | 67-64-1 | MSD | 103 | 0 | 100 | 103 | 39 - 160 | RPD 4.90 (Max-30) | |
| Benzene | 71-43-2 | MS | 23.40 | 0 | 20 | 117 | 79 - 120 | | |
| Benzene | 71-43-2 | MSD | 21.40 | 0 | 20 | 107 | 79 - 120 | RPD 8.71 (Max-30) | |
| Bromobenzene | 108-86-1 | MS | 22.80 | 0 | 20 | 114 | 80 - 120 | | |
| Bromobenzene | 108-86-1 | MSD | 20.30 | 0 | 20 | 101 | 80 - 120 | RPD 11.80 (Max-30) | |
| Bromochloromethane | 74-97-5 | MS | 23.10 | 0 | 20 | 116 | 78 - 123 | | |
| Bromochloromethane | 74-97-5 | MSD | 22.80 | 0 | 20 | 114 | 78 - 123 | RPD 1.52 (Max-30) | |
| Bromodichloromethane | 75-27-4 | MS | 23.50 | 0 | 20 | 117 | 79 - 125 | | |
| Bromodichloromethane | 75-27-4 | MSD | 22.40 | 0 | 20 | 112 | 79 - 125 | RPD 4.51 (Max-30) | |
| Bromoform | 75-25-2 | MS | 20.20 | 0 | 20 | 101 | 66 - 130 | | |
| Bromoform | 75-25-2 | MSD | 18.90 | 0 | 20 | 94.4 | 66 - 130 | RPD 6.94 (Max-30) | |
| Bromomethane | 74-83-9 | MS | 22.30 | 0 | 20 | 111 | 53 - 141 | | |
| Bromomethane | 74-83-9 | MSD | 20.70 | 0 | 20 | 104 | 53 - 141 | RPD 7.40 (Max-30) | |
| Carbon Disulfide | 75-15-0 | MS | 23 | 0 | 20 | 115 | 64 - 133 | | |
| Carbon Disulfide | 75-15-0 | MSD | 20.90 | 0 | 20 | 104 | 64 - 133 | RPD 9.82 (Max-30) | |
| Carbon Tetrachloride | 56-23-5 | MS | 22.50 | 0 | 20 | 112 | 72 - 136 | | |
| Carbon Tetrachloride | 56-23-5 | MSD | 19.90 | 0 | 20 | 99.5 | 72 - 136 | RPD 12.10 (Max-30) | |



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**Project** HS24061196
**Workorder** 3366027

## QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 108-90-7 | MS | 23.10 | 0 | 20 | 115 | 82 - 118 | | |
| Chlorobenzene | 108-90-7 | MSD | 21.30 | 0 | 20 | 106 | 82 - 118 | RPD 8.14 (Max-30) | |
| Chlorodibromomethane | 124-48-1 | MS | 20.40 | 0 | 20 | 102 | 74 - 126 | | |
| Chlorodibromomethane | 124-48-1 | MSD | 19.20 | 0 | 20 | 95.8 | 74 - 126 | RPD 6.38 (Max-30) | |
| Chloroethane | 75-00-3 | MS | 23.80 | 0 | 20 | 119 | 60 - 138 | | |
| Chloroethane | 75-00-3 | MSD | 21 | 0 | 20 | 105 | 60 - 138 | RPD 12.70 (Max-30) | |
| Chloroform | 67-66-3 | MS | 22.40 | 0 | 20 | 112 | 79 - 124 | | |
| Chloroform | 67-66-3 | MSD | 20.80 | 0 | 20 | 104 | 79 - 124 | RPD 7.35 (Max-30) | |
| Chloromethane | 74-87-3 | MS | 21.20 | 0.33 | 20 | 104 | 50 - 139 | | |
| Chloromethane | 74-87-3 | MSD | 19.30 | 0.33 | 20 | 95.1 | 50 - 139 | RPD 8.96 (Max-30) | |
| cis-1,2-Dichloroethene | 156-59-2 | MS | 23.70 | 0 | 20 | 118 | 78 - 123 | | |
| cis-1,2-Dichloroethene | 156-59-2 | MSD | 22.40 | 0 | 20 | 112 | 78 - 123 | RPD 5.63 (Max-30) | |
| cis-1,3-Dichloropropene | 10061-01-5 | MS | 20.30 | 0 | 20 | 102 | 75 - 124 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | MSD | 19 | 0 | 20 | 94.9 | 75 - 124 | RPD 6.92 (Max-30) | |
| Dibromomethane | 74-95-3 | MS | 22.90 | 0 | 20 | 114 | 79 - 123 | | |
| Dibromomethane | 74-95-3 | MSD | 22.10 | 0 | 20 | 110 | 79 - 123 | RPD 3.68 (Max-30) | |
| Dichlorodifluoromethane | 75-71-8 | MS | 22.40 | 0 | 20 | 112 | 32 - 152 | | |
| Dichlorodifluoromethane | 75-71-8 | MSD | 19.50 | 0 | 20 | 97.4 | 32 - 152 | RPD 13.70 (Max-30) | |
| Ethylbenzene | 100-41-4 | MS | 23.60 | 0 | 20 | 118 | 79 - 121 | | |
| Ethylbenzene | 100-41-4 | MSD | 21.20 | 0 | 20 | 106 | 79 - 121 | RPD 11.10 (Max-30) | |
| Hexachlorobutadiene | 87-68-3 | MS | 23 | 0 | 20 | 115 | 66 - 134 | | |
| Hexachlorobutadiene | 87-68-3 | MSD | 20.40 | 0 | 20 | 102 | 66 - 134 | RPD 12 (Max-30) | |
| Isopropylbenzene | 98-82-8 | MS | 25.10 | 0 | 20 | 125 | 72 - 131 | | |
| Isopropylbenzene | 98-82-8 | MSD | 21.90 | 0 | 20 | 110 | 72 - 131 | RPD 13.40 (Max-30) | |
| Methylene Chloride | 75-09-2 | MS | 23.10 | 0 | 20 | 116 | 74 - 124 | | |
| Methylene Chloride | 75-09-2 | MSD | 22 | 0 | 20 | 110 | 74 - 124 | RPD 5.10 (Max-30) | |
| mp-Xylene | 108383/106423 | MS | 47.50 | 0 | 40 | 119 | 80 - 121 | | |
| mp-Xylene | 108383/106423 | MSD | 43.40 | 0 | 40 | 109 | 80 - 121 | RPD 8.91 (Max-30) | |
| Naphthalene | 91-20-3 | MS | 20.90 | 0 | 20 | 104 | 61 - 128 | | |
| Naphthalene | 91-20-3 | MSD | 19.10 | 0 | 20 | 95.3 | 61 - 128 | RPD 9.09 (Max-30) | |
| n-Butylbenzene | 104-51-8 | MS | 23.30 | 0 | 20 | 116 | 75 - 128 | | |
| n-Butylbenzene | 104-51-8 | MSD | 20.70 | 0 | 20 | 104 | 75 - 128 | RPD 11.70 (Max-30) | |
| n-Propylbenzene | 103-65-1 | MS | 22.90 | 0 | 20 | 115 | 76 - 126 | | |
| n-Propylbenzene | 103-65-1 | MSD | 20 | 0 | 20 | 99.8 | 76 - 126 | RPD 13.90 (Max-30) | |
| o-Chlorotoluene | 95-49-8 | MS | 23.80 | 0 | 20 | 119 | 79 - 122 | | |
| o-Chlorotoluene | 95-49-8 | MSD | 20.90 | 0 | 20 | 105 | 79 - 122 | RPD 12.70 (Max-30) | |
| o-Xylene | 95-47-6 | MS | 23.70 | 0 | 20 | 119 | 78 - 122 | | |
| o-Xylene | 95-47-6 | MSD | 21.50 | 0 | 20 | 108 | 78 - 122 | RPD 9.63 (Max-30) | |
| p-Chlorotoluene | 106-43-4 | MS | 23.10 | 0 | 20 | 116 | 78 - 122 | | |
| p-Chlorotoluene | 106-43-4 | MSD | 20.50 | 0 | 20 | 103 | 78 - 122 | RPD 11.90 (Max-30) | |
| p-Isopropyltoluene | 99-87-6 | MS | 23.70 | 0 | 20 | 119 | 77 - 127 | | |
| p-Isopropyltoluene | 99-87-6 | MSD | 20.90 | 0 | 20 | 105 | 77 - 127 | RPD 12.50 (Max-30) | |
| sec-Butylbenzene | 135-98-8 | MS | 24.10 | 0 | 20 | 121 | 77 - 126 | | |
| sec-Butylbenzene | 135-98-8 | MSD | 21.20 | 0 | 20 | 106 | 77 - 126 | RPD 13 (Max-30) | |
| Styrene | 100-42-5 | MS | 21.80 | 0 | 20 | 109 | 78 - 123 | | |
| Styrene | 100-42-5 | MSD | 19.20 | 0 | 20 | 96.2 | 78 - 123 | RPD 12.50 (Max-30) | |
| tert-Butylbenzene | 98-06-6 | MS | 24.10 | 0 | 20 | 121 | 78 - 124 | | |
| tert-Butylbenzene | 98-06-6 | MSD | 20.80 | 0 | 20 | 104 | 78 - 124 | RPD 14.70 (Max-30) | |



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**Workorder** 3366027

## QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 127-18-4 | MS | 21.60 | 0 | 20 | 108 | 74 - 129 | | |
| Tetrachloroethene | 127-18-4 | MSD | 19.90 | 0 | 20 | 99.4 | 74 - 129 | RPD 8.06 (Max-30) | |
| Toluene | 108-88-3 | MS | 23 | 0 | 20 | 115 | 80 - 121 | | |
| Toluene | 108-88-3 | MSD | 20.70 | 0 | 20 | 104 | 80 - 121 | RPD 10.50 (Max-30) | |
| trans-1,2-Dichloroethene | 156-60-5 | MS | 23.70 | 0 | 20 | 118 | 75 - 124 | | |
| trans-1,2-Dichloroethene | 156-60-5 | MSD | 21.50 | 0 | 20 | 108 | 75 - 124 | RPD 9.58 (Max-30) | |
| trans-1,3-Dichloropropene | 10061-02-6 | MS | 21.20 | 0 | 20 | 106 | 73 - 127 | | |
| trans-1,3-Dichloropropene | 10061-02-6 | MSD | 19.70 | 0 | 20 | 98.5 | 73 - 127 | RPD 7.23 (Max-30) | |
| Trichloroethene | 79-01-6 | MS | 23.20 | 0.54 | 20 | 113 | 79 - 123 | | |
| Trichloroethene | 79-01-6 | MSD | 21.20 | 0.54 | 20 | 103 | 79 - 123 | RPD 8.94 (Max-30) | |
| Trichlorofluoromethane | 75-69-4 | MS | 22.50 | 0 | 20 | 113 | 65 - 141 | | |
| Trichlorofluoromethane | 75-69-4 | MSD | 20.30 | 0 | 20 | 102 | 65 - 141 | RPD 10.30 (Max-30) | |
| Vinyl Chloride | 75-01-4 | MS | 22.60 | 0 | 20 | 113 | 58 - 137 | | |
| Vinyl Chloride | 75-01-4 | MSD | 20.10 | 0 | 20 | 101 | 58 - 137 | RPD 11.70 (Max-30) | |

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | MS | 31.70 | 30 | 106 | 81 - 118 | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | MSD | 31.20 | 30 | 104 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | MS | 30.90 | 30 | 103 | 85 - 114 | |
| 4-Bromofluorobenzene | 460-00-4 | MSD | 28.80 | 30 | 95.8 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | MS | 30.60 | 30 | 102 | 80 - 119 | |
| Dibromofluoromethane | 1868-53-7 | MSD | 30.70 | 30 | 102 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | MS | 30.20 | 30 | 101 | 89 - 112 | |
| Toluene-d8 | 2037-26-5 | MSD | 30.20 | 30 | 101 | 89 - 112 | |

**QC Batch**

| | | | |
|---|---|---|---|
| QC Batch | 1235666 | Prep Method | N/A |
| Date | N/A | Analysis Method | SW846 8260D |
| Tech. | | | |

**Associated Samples**

| | | | |
|---|---|---|---|
| 3366027007 | 3366027008 | 3366027001 | 3366027009 |
| 3366027011 | 3366027003 | 3366027006 | 3366027004 |
| 3366027005 | | | |

***Matrix Spike*** 3845610 (MS) 3366036002 (non-Project Sample) For QC Batch 1235666

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

***Matrix Spike Duplicate*** 3845611 (MSD) 3366036002 (non-Project Sample) For QC Batch 1235666

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | MS | 20.60 | 0 | 20 | 103 | 78 - 124 | | |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | MSD | 19.60 | 0 | 20 | 98.2 | 78 - 124 | RPD 4.86 (Max-30) | |



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## QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | MS | 23.70 | 0 | 20 | 118 | 74 - 131 | | |
| 1,1,1-Trichloroethane | 71-55-6 | MSD | 22.10 | 0 | 20 | 111 | 74 - 131 | RPD 6.85 (Max-30) | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | MS | 23.50 | 0 | 20 | 118 | 71 - 121 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | MSD | 22.90 | 0 | 20 | 114 | 71 - 121 | RPD 2.92 (Max-30) | |
| 1,1,2-Trichloroethane | 79-00-5 | MS | 22.40 | 0 | 20 | 112 | 80 - 119 | | |
| 1,1,2-Trichloroethane | 79-00-5 | MSD | 21 | 0 | 20 | 105 | 80 - 119 | RPD 6.54 (Max-30) | |
| 1,1-Dichloroethane | 75-34-3 | MS | 23 | 0 | 20 | 115 | 77 - 125 | | |
| 1,1-Dichloroethane | 75-34-3 | MSD | 21.40 | 0 | 20 | 107 | 77 - 125 | RPD 7.46 (Max-30) | |
| 1,1-Dichloroethene | 75-35-4 | MS | 23.30 | 0 | 20 | 116 | 71 - 131 | | |
| 1,1-Dichloroethene | 75-35-4 | MSD | 21.50 | 0 | 20 | 107 | 71 - 131 | RPD 8.09 (Max-30) | |
| 1,1-Dichloropropene | 563-58-6 | MS | 23.10 | 0 | 20 | 116 | 79 - 125 | | |
| 1,1-Dichloropropene | 563-58-6 | MSD | 21.10 | 0 | 20 | 106 | 79 - 125 | RPD 8.94 (Max-30) | |
| 1,2,3-Trichlorobenzene | 87-61-6 | MS | 19.10 | 0 | 20 | 95.6 | 69 - 129 | | |
| 1,2,3-Trichlorobenzene | 87-61-6 | MSD | 18.70 | 0 | 20 | 93.3 | 69 - 129 | RPD 2.42 (Max-30) | |
| 1,2,3-Trichloropropane | 96-18-4 | MS | 22.80 | 0 | 20 | 114 | 73 - 122 | | |
| 1,2,3-Trichloropropane | 96-18-4 | MSD | 22.60 | 0 | 20 | 113 | 73 - 122 | RPD 1.14 (Max-30) | |
| 1,2,4-Trichlorobenzene | 120-82-1 | MS | 23.40 | 0 | 20 | 117 | 69 - 130 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | MSD | 22.90 | 0 | 20 | 114 | 69 - 130 | RPD 2.38 (Max-30) | |
| 1,2,4-Trimethylbenzene | 95-63-6 | MS | 21.90 | 0 | 20 | 110 | 76 - 124 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | MSD | 21.40 | 0 | 20 | 107 | 76 - 124 | RPD 2.34 (Max-30) | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | MS | 19 | 0 | 20 | 95.2 | 62 - 128 | | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | MSD | 17.70 | 0 | 20 | 88.6 | 62 - 128 | RPD 7.16 (Max-30) | |
| 1,2-Dibromoethane | 106-93-4 | MS | 20.20 | 0 | 20 | 101 | 77 - 121 | | |
| 1,2-Dibromoethane | 106-93-4 | MSD | 19.30 | 0 | 20 | 96.4 | 77 - 121 | RPD 4.64 (Max-30) | |
| 1,2-Dichlorobenzene | 95-50-1 | MS | 23.20 | 0 | 20 | 116 | 80 - 119 | | |
| 1,2-Dichlorobenzene | 95-50-1 | MSD | 22.30 | 0 | 20 | 111 | 80 - 119 | RPD 3.86 (Max-30) | |
| 1,2-Dichloroethane | 107-06-2 | MS | 21.90 | 0 | 20 | 109 | 73 - 128 | | |
| 1,2-Dichloroethane | 107-06-2 | MSD | 20.50 | 0 | 20 | 103 | 73 - 128 | RPD 6.41 (Max-30) | |
| 1,2-Dichloropropane | 78-87-5 | MS | 22.60 | 0 | 20 | 113 | 78 - 122 | | |
| 1,2-Dichloropropane | 78-87-5 | MSD | 21.20 | 0 | 20 | 106 | 78 - 122 | RPD 6.41 (Max-30) | |
| 1,3,5-Trimethylbenzene | 108-67-8 | MS | 23.80 | 0 | 20 | 119 | 75 - 124 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | MSD | 22.90 | 0 | 20 | 115 | 75 - 124 | RPD 3.56 (Max-30) | |
| 1,3-Dichlorobenzene | 541-73-1 | MS | 23.30 | 0 | 20 | 117 | 80 - 119 | | |
| 1,3-Dichlorobenzene | 541-73-1 | MSD | 22.50 | 0 | 20 | 112 | 80 - 119 | RPD 3.69 (Max-30) | |
| 1,3-Dichloropropane | 142-28-9 | MS | 22.80 | 0 | 20 | 114 | 80 - 119 | | |
| 1,3-Dichloropropane | 142-28-9 | MSD | 22 | 0 | 20 | 110 | 80 - 119 | RPD 3.92 (Max-30) | |
| 1,4-Dichlorobenzene | 106-46-7 | MS | 23.10 | 0 | 20 | 116 | 79 - 118 | | |
| 1,4-Dichlorobenzene | 106-46-7 | MSD | 22.20 | 0 | 20 | 111 | 79 - 118 | RPD 3.96 (Max-30) | |
| 2,2-Dichloropropane | 594-20-7 | MS | 21.60 | 0 | 20 | 108 | 60 - 139 | | |
| 2,2-Dichloropropane | 594-20-7 | MSD | 19.70 | 0 | 20 | 98.6 | 60 - 139 | RPD 9.35 (Max-30) | |
| 2-Butanone | 78-93-3 | MS | 102 | 0 | 100 | 102 | 56 - 143 | | |
| 2-Butanone | 78-93-3 | MSD | 97.40 | 0 | 100 | 97.4 | 56 - 143 | RPD 4.92 (Max-30) | |
| 2-Hexanone | 591-78-6 | MS | 103 | 0 | 100 | 103 | 57 - 139 | | |
| 2-Hexanone | 591-78-6 | MSD | 98.80 | 0 | 100 | 98.8 | 57 - 139 | RPD 4.62 (Max-30) | |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | MS | 106 | 0 | 100 | 106 | 67 - 130 | | |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | MSD | 102 | 0 | 100 | 102 | 67 - 130 | RPD 4.01 (Max-30) | |
| Acetone | 67-64-1 | MS | 97.10 | 0 | 100 | 97.1 | 39 - 160 | | |
| Acetone | 67-64-1 | MSD | 93 | 0 | 100 | 93 | 39 - 160 | RPD 4.28 (Max-30) | |
| Benzene | 71-43-2 | MS | 21.80 | 0 | 20 | 109 | 79 - 120 | | |



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**Project** HS24061196
**Workorder** 3366027

## QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | MSD | 20.50 | 0 | 20 | 102 | 79 - 120 | RPD 6.31 (Max-30) | |
| Bromobenzene | 108-86-1 | MS | 23.20 | 0 | 20 | 116 | 80 - 120 | | |
| Bromobenzene | 108-86-1 | MSD | 22.70 | 0 | 20 | 113 | 80 - 120 | RPD 2.17 (Max-30) | |
| Bromochloromethane | 74-97-5 | MS | 22.10 | 0 | 20 | 110 | 78 - 123 | | |
| Bromochloromethane | 74-97-5 | MSD | 21.80 | 0 | 20 | 109 | 78 - 123 | RPD 1.46 (Max-30) | |
| Bromodichloromethane | 75-27-4 | MS | 20.70 | 0 | 20 | 103 | 79 - 125 | | |
| Bromodichloromethane | 75-27-4 | MSD | 18.90 | 0 | 20 | 94.6 | 79 - 125 | RPD 8.78 (Max-30) | |
| Bromoform | 75-25-2 | MS | 18.40 | 0 | 20 | 91.9 | 66 - 130 | | |
| Bromoform | 75-25-2 | MSD | 17.90 | 0 | 20 | 89.6 | 66 - 130 | RPD 2.55 (Max-30) | |
| Bromomethane | 74-83-9 | MS | 21.60 | 0 | 20 | 108 | 53 - 141 | | |
| Bromomethane | 74-83-9 | MSD | 19.70 | 0 | 20 | 98.7 | 53 - 141 | RPD 8.99 (Max-30) | |
| Carbon Disulfide | 75-15-0 | MS | 20.80 | 0 | 20 | 104 | 64 - 133 | | |
| Carbon Disulfide | 75-15-0 | MSD | 19.50 | 0 | 20 | 97.4 | 64 - 133 | RPD 6.49 (Max-30) | |
| Carbon Tetrachloride | 56-23-5 | MS | 19.80 | 0 | 20 | 98.9 | 72 - 136 | | |
| Carbon Tetrachloride | 56-23-5 | MSD | 18.30 | 0 | 20 | 91.3 | 72 - 136 | RPD 8.04 (Max-30) | |
| Chlorobenzene | 108-90-7 | MS | 22.50 | 0 | 20 | 113 | 82 - 118 | | |
| Chlorobenzene | 108-90-7 | MSD | 21.30 | 0 | 20 | 107 | 82 - 118 | RPD 5.40 (Max-30) | |
| Chlorodibromomethane | 124-48-1 | MS | 18.90 | 0 | 20 | 94.7 | 74 - 126 | | |
| Chlorodibromomethane | 124-48-1 | MSD | 18.20 | 0 | 20 | 90.8 | 74 - 126 | RPD 4.18 (Max-30) | |
| Chloroethane | 75-00-3 | MS | 21.90 | 0 | 20 | 110 | 60 - 138 | | |
| Chloroethane | 75-00-3 | MSD | 19.90 | 0 | 20 | 99.3 | 60 - 138 | RPD 9.94 (Max-30) | |
| Chloroform | 67-66-3 | MS | 22.20 | 0 | 20 | 111 | 79 - 124 | | |
| Chloroform | 67-66-3 | MSD | 21.10 | 0 | 20 | 105 | 79 - 124 | RPD 5.16 (Max-30) | |
| Chloromethane | 74-87-3 | MS | 21.70 | 0 | 20 | 108 | 50 - 139 | | |
| Chloromethane | 74-87-3 | MSD | 19.50 | 0 | 20 | 97.4 | 50 - 139 | RPD 10.70 (Max-30) | |
| cis-1,2-Dichloroethene | 156-59-2 | MS | 23.10 | 0 | 20 | 115 | 78 - 123 | | |
| cis-1,2-Dichloroethene | 156-59-2 | MSD | 21.30 | 0 | 20 | 107 | 78 - 123 | RPD 7.94 (Max-30) | |
| cis-1,3-Dichloropropene | 10061-01-5 | MS | 19.70 | 0 | 20 | 98.7 | 75 - 124 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | MSD | 18.80 | 0 | 20 | 94.2 | 75 - 124 | RPD 4.66 (Max-30) | |
| Dibromomethane | 74-95-3 | MS | 22.20 | 0 | 20 | 111 | 79 - 123 | | |
| Dibromomethane | 74-95-3 | MSD | 20.40 | 0 | 20 | 102 | 79 - 123 | RPD 8.58 (Max-30) | |
| Dichlorodifluoromethane | 75-71-8 | MS | 20.70 | 0 | 20 | 103 | 32 - 152 | | |
| Dichlorodifluoromethane | 75-71-8 | MSD | 18.80 | 0 | 20 | 94.1 | 32 - 152 | RPD 9.25 (Max-30) | |
| Ethylbenzene | 100-41-4 | MS | 21.40 | 0 | 20 | 107 | 79 - 121 | | |
| Ethylbenzene | 100-41-4 | MSD | 20.10 | 0 | 20 | 101 | 79 - 121 | RPD 6.16 (Max-30) | |
| Hexachlorobutadiene | 87-68-3 | MS | 20.80 | 0 | 20 | 104 | 66 - 134 | | |
| Hexachlorobutadiene | 87-68-3 | MSD | 20.80 | 0 | 20 | 104 | 66 - 134 | RPD 0.28 (Max-30) | |
| Isopropylbenzene | 98-82-8 | MS | 25.40 | 0 | 20 | 127 | 72 - 131 | | |
| Isopropylbenzene | 98-82-8 | MSD | 24.40 | 0 | 20 | 122 | 72 - 131 | RPD 3.98 (Max-30) | |
| Methylene Chloride | 75-09-2 | MS | 21.80 | 0 | 20 | 109 | 74 - 124 | | |
| Methylene Chloride | 75-09-2 | MSD | 20.40 | 0 | 20 | 102 | 74 - 124 | RPD 6.73 (Max-30) | |
| mp-Xylene | 108383/106423 | MS | 42.40 | 0 | 40 | 106 | 80 - 121 | | |
| mp-Xylene | 108383/106423 | MSD | 40.40 | 0 | 40 | 101 | 80 - 121 | RPD 4.71 (Max-30) | |
| Naphthalene | 91-20-3 | MS | 19.30 | 0 | 20 | 96.7 | 61 - 128 | | |
| Naphthalene | 91-20-3 | MSD | 19 | 0 | 20 | 95.2 | 61 - 128 | RPD 1.61 (Max-30) | |
| n-Butylbenzene | 104-51-8 | MS | 22.80 | 0 | 20 | 114 | 75 - 128 | | |
| n-Butylbenzene | 104-51-8 | MSD | 22.90 | 0 | 20 | 114 | 75 - 128 | RPD 0.48 (Max-30) | |
| n-Propylbenzene | 103-65-1 | MS | 24 | 0 | 20 | 120 | 76 - 126 | | |
| n-Propylbenzene | 103-65-1 | MSD | 23.10 | 0 | 20 | 116 | 76 - 126 | RPD 3.62 (Max-30) | |



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**Workorder** 3366027

## QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| o-Chlorotoluene | 95-49-8 | MS | 23.90 | 0 | 20 | 120 | 79 - 122 | | |
| o-Chlorotoluene | 95-49-8 | MSD | 23.30 | 0 | 20 | 117 | 79 - 122 | RPD 2.52 (Max-30) | |
| o-Xylene | 95-47-6 | MS | 21.20 | 0 | 20 | 106 | 78 - 122 | | |
| o-Xylene | 95-47-6 | MSD | 19.90 | 0 | 20 | 99.6 | 78 - 122 | RPD 6.39 (Max-30) | |
| p-Chlorotoluene | 106-43-4 | MS | 24 | 0 | 20 | 120 | 78 - 122 | | |
| p-Chlorotoluene | 106-43-4 | MSD | 23.30 | 0 | 20 | 117 | 78 - 122 | RPD 2.72 (Max-30) | |
| p-Isopropyltoluene | 99-87-6 | MS | 24.30 | 0 | 20 | 122 | 77 - 127 | | |
| p-Isopropyltoluene | 99-87-6 | MSD | 23 | 0 | 20 | 115 | 77 - 127 | RPD 5.42 (Max-30) | |
| sec-Butylbenzene | 135-98-8 | MS | 25.20 | 0 | 20 | 126 | 77 - 126 | | |
| sec-Butylbenzene | 135-98-8 | MSD | 24.30 | 0 | 20 | 122 | 77 - 126 | RPD 3.43 (Max-30) | |
| Styrene | 100-42-5 | MS | 21.90 | 0 | 20 | 109 | 78 - 123 | | |
| Styrene | 100-42-5 | MSD | 21 | 0 | 20 | 105 | 78 - 123 | RPD 4.26 (Max-30) | |
| tert-Butylbenzene | 98-06-6 | MS | 24.80 | 0 | 20 | 124 | 78 - 124 | | |
| tert-Butylbenzene | 98-06-6 | MSD | 23.90 | 0 | 20 | 120 | 78 - 124 | RPD 3.71 (Max-30) | |
| Tetrachloroethene | 127-18-4 | MS | 21.10 | 0 | 20 | 106 | 74 - 129 | | |
| Tetrachloroethene | 127-18-4 | MSD | 20.30 | 0 | 20 | 102 | 74 - 129 | RPD 3.88 (Max-30) | |
| Toluene | 108-88-3 | MS | 21.40 | 0 | 20 | 107 | 80 - 121 | | |
| Toluene | 108-88-3 | MSD | 20.30 | 0 | 20 | 101 | 80 - 121 | RPD 5.38 (Max-30) | |
| trans-1,2-Dichloroethene | 156-60-5 | MS | 23 | 0 | 20 | 115 | 75 - 124 | | |
| trans-1,2-Dichloroethene | 156-60-5 | MSD | 21.10 | 0 | 20 | 106 | 75 - 124 | RPD 8.76 (Max-30) | |
| trans-1,3-Dichloropropene | 10061-02-6 | MS | 20 | 0 | 20 | 99.9 | 73 - 127 | | |
| trans-1,3-Dichloropropene | 10061-02-6 | MSD | 19 | 0 | 20 | 95.1 | 73 - 127 | RPD 4.91 (Max-30) | |
| Trichloroethene | 79-01-6 | MS | 22.40 | 0.93 | 20 | 107 | 79 - 123 | | |
| Trichloroethene | 79-01-6 | MSD | 20.90 | 0.93 | 20 | 99.8 | 79 - 123 | RPD 6.78 (Max-30) | |
| Trichlorofluoromethane | 75-69-4 | MS | 21.70 | 0 | 20 | 109 | 65 - 141 | | |
| Trichlorofluoromethane | 75-69-4 | MSD | 19.60 | 0 | 20 | 98.2 | 65 - 141 | RPD 10 (Max-30) | |
| Vinyl Chloride | 75-01-4 | MS | 21.50 | 0 | 20 | 108 | 58 - 137 | | |
| Vinyl Chloride | 75-01-4 | MSD | 19.50 | 0 | 20 | 97.3 | 58 - 137 | RPD 10.20 (Max-30) | |

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | MS | 32.40 | 30 | 108 | 81 - 118 | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | MSD | 32.60 | 30 | 109 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | MS | 30 | 30 | 100 | 85 - 114 | |
| 4-Bromofluorobenzene | 460-00-4 | MSD | 31 | 30 | 103 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | MS | 29.10 | 30 | 97.1 | 80 - 119 | |
| Dibromofluoromethane | 1868-53-7 | MSD | 30.80 | 30 | 103 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | MS | 30.20 | 30 | 101 | 89 - 112 | |
| Toluene-d8 | 2037-26-5 | MSD | 31 | 30 | 103 | 89 - 112 | |

***Method Blank*** 3845608 (MB) Created on 06/27/2024 20:24 For QC Batch 1235666

*RESULTS*

| Compound | CAS No | Result | Units | LOQ | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | BLK 0.25 U | ug/L | 1.0 | U |



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**Project** HS24061196
**Workorder** 3366027

## QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result | Units | LOQ | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,2-Trichloroethane | 79-00-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloroethane | 75-34-3 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloroethene | 75-35-4 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloropropene | 563-58-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,3-Trichlorobenzene | 87-61-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,3-Trichloropropane | 96-18-4 | BLK | 2.5U | ug/L | 5.0 | U |
| 1,2,4-Trichlorobenzene | 120-82-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,4-Trimethylbenzene | 95-63-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | BLK | 2.5U | ug/L | 5.0 | U |
| 1,2-Dibromoethane | 106-93-4 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichlorobenzene | 95-50-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichloroethane | 107-06-2 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichloropropane | 78-87-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3,5-Trimethylbenzene | 108-67-8 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3-Dichlorobenzene | 541-73-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3-Dichloropropane | 142-28-9 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,4-Dichlorobenzene | 106-46-7 | BLK | 0.75U | ug/L | 1.0 | U |
| 2,2-Dichloropropane | 594-20-7 | BLK | 0.75U | ug/L | 1.0 | U |
| 2-Butanone | 78-93-3 | BLK | 3.8U | ug/L | 5.0 | U |
| 2-Hexanone | 591-78-6 | BLK | 3.8U | ug/L | 5.0 | U |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | BLK | 3.8U | ug/L | 5.0 | U |
| Acetone | 67-64-1 | BLK | 3.8U | ug/L | 5.0 | U |
| Benzene | 71-43-2 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromobenzene | 108-86-1 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromochloromethane | 74-97-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromodichloromethane | 75-27-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromoform | 75-25-2 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromomethane | 74-83-9 | BLK | 0.75U | ug/L | 1.0 | U |
| Carbon Disulfide | 75-15-0 | BLK | 0.75U | ug/L | 1.0 | U |
| Carbon Tetrachloride | 56-23-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Chlorobenzene | 108-90-7 | BLK | 0.75U | ug/L | 1.0 | U |
| Chlorodibromomethane | 124-48-1 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloroethane | 75-00-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloroform | 67-66-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloromethane | 74-87-3 | BLK | 0.75U | ug/L | 1.0 | U |
| cis-1,2-Dichloroethene | 156-59-2 | BLK | 0.75U | ug/L | 1.0 | U |
| cis-1,3-Dichloropropene | 10061-01-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Dibromomethane | 74-95-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Dichlorodifluoromethane | 75-71-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Ethylbenzene | 100-41-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Hexachlorobutadiene | 87-68-3 | BLK | 3.8U | ug/L | 5.0 | U |
| Isopropylbenzene | 98-82-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Methylene Chloride | 75-09-2 | BLK | 0.75U | ug/L | 1.0 | U |
| mp-Xylene | 108383/106423 | BLK | 1.5U | ug/L | 2.0 | U |
| Naphthalene | 91-20-3 | BLK | 0.75U | ug/L | 1.0 | U |
| n-Butylbenzene | 104-51-8 | BLK | 0.75U | ug/L | 1.0 | U |



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**Project** HS24061196
**Workorder** 3366027

QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result | Units | LOQ | Qualifiers |
|---|---|---|---|---|---|---|
| n-Propylbenzene | 103-65-1 | BLK | 0.75U | ug/L | 1.0 | U |
| o-Chlorotoluene | 95-49-8 | BLK | 0.75U | ug/L | 1.0 | U |
| o-Xylene | 95-47-6 | BLK | 0.75U | ug/L | 1.0 | U |
| p-Chlorotoluene | 106-43-4 | BLK | 0.75U | ug/L | 1.0 | U |
| p-Isopropyltoluene | 99-87-6 | BLK | 0.75U | ug/L | 1.0 | U |
| sec-Butylbenzene | 135-98-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Styrene | 100-42-5 | BLK | 0.75U | ug/L | 1.0 | U |
| tert-Butylbenzene | 98-06-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Tetrachloroethene | 127-18-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Toluene | 108-88-3 | BLK | 0.75U | ug/L | 1.0 | U |
| trans-1,2-Dichloroethene | 156-60-5 | BLK | 0.75U | ug/L | 1.0 | U |
| trans-1,3-Dichloropropene | 10061-02-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Trichloroethene | 79-01-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Trichlorofluoromethane | 75-69-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Vinyl Chloride | 75-01-4 | BLK | 0.75U | ug/L | 1.0 | U |

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | BLK | 29.90 | 30 | 99.7 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | BLK | 29.70 | 30 | 99.1 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | BLK | 27.60 | 30 | 91.9 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | BLK | 30.20 | 30 | 101 | 89 - 112 | |

***Lab Control Standard*** 3845609 (LCS) Created on 06/27/2024 20:24 For QC Batch 1235666

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | LCS | 19.20 | | 20 | 96 | 78 - 124 | | |
| 1,1,1-Trichloroethane | 71-55-6 | LCS | 20.20 | | 20 | 101 | 74 - 131 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | LCS | 22.50 | | 20 | 113 | 71 - 121 | | |
| 1,1,2-Trichloroethane | 79-00-5 | LCS | 21.20 | | 20 | 106 | 80 - 119 | | |
| 1,1-Dichloroethane | 75-34-3 | LCS | 19.70 | | 20 | 98.7 | 77 - 125 | | |
| 1,1-Dichloroethene | 75-35-4 | LCS | 19.40 | | 20 | 97 | 71 - 131 | | |
| 1,1-Dichloropropene | 563-58-6 | LCS | 19.10 | | 20 | 95.6 | 79 - 125 | | |
| 1,2,3-Trichlorobenzene | 87-61-6 | LCS | 19.30 | | 20 | 96.5 | 69 - 129 | | |
| 1,2,3-Trichloropropane | 96-18-4 | LCS | 21.90 | | 20 | 110 | 73 - 122 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | LCS | 23.80 | | 20 | 119 | 69 - 130 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | LCS | 20 | | 20 | 100 | 76 - 124 | | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | LCS | 18.90 | | 20 | 94.7 | 62 - 128 | | |
| 1,2-Dibromoethane | 106-93-4 | LCS | 19.10 | | 20 | 95.7 | 77 - 121 | | |
| 1,2-Dichlorobenzene | 95-50-1 | LCS | 22 | | 20 | 110 | 80 - 119 | | |
| 1,2-Dichloroethane | 107-06-2 | LCS | 20 | | 20 | 99.9 | 73 - 128 | | |
| 1,2-Dichloropropane | 78-87-5 | LCS | 20.20 | | 20 | 101 | 78 - 122 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | LCS | 21.20 | | 20 | 106 | 75 - 124 | | |



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**Project** HS24061196
**Workorder** 3366027

QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 541-73-1 | LCS | 21.60 | | 20 | 108 | 80 - 119 | | |
| 1,3-Dichloropropane | 142-28-9 | LCS | 21.50 | | 20 | 108 | 80 - 119 | | |
| 1,4-Dichlorobenzene | 106-46-7 | LCS | 21.50 | | 20 | 107 | 79 - 118 | | |
| 2,2-Dichloropropane | 594-20-7 | LCS | 21 | | 20 | 105 | 60 - 139 | | |
| 2-Butanone | 78-93-3 | LCS | 105 | | 100 | 105 | 56 - 143 | | |
| 2-Hexanone | 591-78-6 | LCS | 103 | | 100 | 103 | 57 - 139 | | |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | LCS | 102 | | 100 | 102 | 67 - 130 | | |
| Acetone | 67-64-1 | LCS | 112 | | 100 | 112 | 39 - 160 | | |
| Benzene | 71-43-2 | LCS | 19.20 | | 20 | 96 | 79 - 120 | | |
| Bromobenzene | 108-86-1 | LCS | 21.60 | | 20 | 108 | 80 - 120 | | |
| Bromochloromethane | 74-97-5 | LCS | 21.10 | | 20 | 105 | 78 - 123 | | |
| Bromodichloromethane | 75-27-4 | LCS | 18.90 | | 20 | 94.4 | 79 - 125 | | |
| Bromoform | 75-25-2 | LCS | 17.90 | | 20 | 89.6 | 66 - 130 | | |
| Bromomethane | 74-83-9 | LCS | 16.20 | | 20 | 81.2 | 53 - 141 | | |
| Carbon Disulfide | 75-15-0 | LCS | 19 | | 20 | 94.9 | 64 - 133 | | |
| Carbon Tetrachloride | 56-23-5 | LCS | 17.40 | | 20 | 87 | 72 - 136 | | |
| Chlorobenzene | 108-90-7 | LCS | 20.40 | | 20 | 102 | 82 - 118 | | |
| Chlorodibromomethane | 124-48-1 | LCS | 18.50 | | 20 | 92.6 | 74 - 126 | | |
| Chloroethane | 75-00-3 | LCS | 18 | | 20 | 90 | 60 - 138 | | |
| Chloroform | 67-66-3 | LCS | 20.10 | | 20 | 101 | 79 - 124 | | |
| Chloromethane | 74-87-3 | LCS | 17.30 | | 20 | 86.3 | 50 - 139 | | |
| cis-1,2-Dichloroethene | 156-59-2 | LCS | 20.40 | | 20 | 102 | 78 - 123 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | LCS | 18.80 | | 20 | 94.1 | 75 - 124 | | |
| Dibromomethane | 74-95-3 | LCS | 20.60 | | 20 | 103 | 79 - 123 | | |
| Dichlorodifluoromethane | 75-71-8 | LCS | 16.20 | | 20 | 81 | 32 - 152 | | |
| Ethylbenzene | 100-41-4 | LCS | 19.20 | | 20 | 96 | 79 - 121 | | |
| Hexachlorobutadiene | 87-68-3 | LCS | 20.20 | | 20 | 101 | 66 - 134 | | |
| Isopropylbenzene | 98-82-8 | LCS | 22.40 | | 20 | 112 | 72 - 131 | | |
| Methylene Chloride | 75-09-2 | LCS | 19.80 | | 20 | 99 | 74 - 124 | | |
| mp-Xylene | 108383/106423 | LCS | 37.60 | | 40 | 93.9 | 80 - 121 | | |
| Naphthalene | 91-20-3 | LCS | 20 | | 20 | 99.9 | 61 - 128 | | |
| n-Butylbenzene | 104-51-8 | LCS | 21.10 | | 20 | 105 | 75 - 128 | | |
| n-Propylbenzene | 103-65-1 | LCS | 21.20 | | 20 | 106 | 76 - 126 | | |
| o-Chlorotoluene | 95-49-8 | LCS | 21.70 | | 20 | 109 | 79 - 122 | | |
| o-Xylene | 95-47-6 | LCS | 19.10 | | 20 | 95.6 | 78 - 122 | | |
| p-Chlorotoluene | 106-43-4 | LCS | 22.10 | | 20 | 110 | 78 - 122 | | |
| p-Isopropyltoluene | 99-87-6 | LCS | 21.50 | | 20 | 107 | 77 - 127 | | |
| sec-Butylbenzene | 135-98-8 | LCS | 21.90 | | 20 | 109 | 77 - 126 | | |
| Styrene | 100-42-5 | LCS | 19.90 | | 20 | 99.4 | 78 - 123 | | |
| tert-Butylbenzene | 98-06-6 | LCS | 21.70 | | 20 | 109 | 78 - 124 | | |
| Tetrachloroethene | 127-18-4 | LCS | 19.60 | | 20 | 97.9 | 74 - 129 | | |
| Toluene | 108-88-3 | LCS | 19.20 | | 20 | 95.8 | 80 - 121 | | |
| trans-1,2-Dichloroethene | 156-60-5 | LCS | 20 | | 20 | 100 | 75 - 124 | | |
| trans-1,3-Dichloropropene | 10061-02-6 | LCS | 19.40 | | 20 | 97.2 | 73 - 127 | | |
| Trichloroethene | 79-01-6 | LCS | 19.10 | | 20 | 95.4 | 79 - 123 | | |
| Trichlorofluoromethane | 75-69-4 | LCS | 17 | | 20 | 84.9 | 65 - 141 | | |
| Vinyl Chloride | 75-01-4 | LCS | 16.70 | | 20 | 83.6 | 58 - 137 | | |



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**Project** HS24061196
**Workorder** 3366027

## QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | LCS | 30.60 | 30 | 102 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | LCS | 30.60 | 30 | 102 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | LCS | 29.80 | 30 | 99.4 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | LCS | 30.90 | 30 | 103 | 89 - 112 | |

**QC Batch**

| | | | |
|---|---|---|---|
| QC Batch | 1236144 | Prep Method | N/A |
| Date | N/A | Analysis Method | SW846 8260D |
| Tech. | | | |

**Associated Samples**

3366027001 3366027002

***Method Blank*** 3845975 (MB) Created on 06/28/2024 10:24 For QC Batch 1236144

*RESULTS*

| Compound | CAS No | | Result | Units | LOQ | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,1-Trichloroethane | 71-55-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,2-Trichloroethane | 79-00-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloroethane | 75-34-3 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloroethene | 75-35-4 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloropropene | 563-58-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,3-Trichlorobenzene | 87-61-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,3-Trichloropropane | 96-18-4 | BLK | 2.5U | ug/L | 5.0 | U |
| 1,2,4-Trichlorobenzene | 120-82-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,4-Trimethylbenzene | 95-63-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | BLK | 2.5U | ug/L | 5.0 | U |
| 1,2-Dibromoethane | 106-93-4 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichlorobenzene | 95-50-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichloroethane | 107-06-2 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichloropropane | 78-87-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3,5-Trimethylbenzene | 108-67-8 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3-Dichlorobenzene | 541-73-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3-Dichloropropane | 142-28-9 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,4-Dichlorobenzene | 106-46-7 | BLK | 0.75U | ug/L | 1.0 | U |
| 2,2-Dichloropropane | 594-20-7 | BLK | 0.75U | ug/L | 1.0 | U |
| 2-Butanone | 78-93-3 | BLK | 3.8U | ug/L | 5.0 | U |
| 2-Hexanone | 591-78-6 | BLK | 3.8U | ug/L | 5.0 | U |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | BLK | 3.8U | ug/L | 5.0 | U |
| Acetone | 67-64-1 | BLK | 3.8U | ug/L | 5.0 | U |
| Benzene | 71-43-2 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromobenzene | 108-86-1 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromochloromethane | 74-97-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromodichloromethane | 75-27-4 | BLK | 0.75U | ug/L | 1.0 | U |



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**Project** HS24061196
**Workorder** 3366027

QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result | Units | LOQ | Qualifiers |
|---|---|---|---|---|---|---|
| Bromoform | 75-25-2 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromomethane | 74-83-9 | BLK | 0.75U | ug/L | 1.0 | U |
| Carbon Disulfide | 75-15-0 | BLK | 0.75U | ug/L | 1.0 | U |
| Carbon Tetrachloride | 56-23-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Chlorobenzene | 108-90-7 | BLK | 0.75U | ug/L | 1.0 | U |
| Chlorodibromomethane | 124-48-1 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloroethane | 75-00-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloroform | 67-66-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloromethane | 74-87-3 | BLK | 0.75U | ug/L | 1.0 | U |
| cis-1,2-Dichloroethene | 156-59-2 | BLK | 0.75U | ug/L | 1.0 | U |
| cis-1,3-Dichloropropene | 10061-01-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Dibromomethane | 74-95-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Dichlorodifluoromethane | 75-71-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Ethylbenzene | 100-41-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Hexachlorobutadiene | 87-68-3 | BLK | 3.8U | ug/L | 5.0 | U |
| Isopropylbenzene | 98-82-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Methylene Chloride | 75-09-2 | BLK | 0.75U | ug/L | 1.0 | U |
| mp-Xylene | 108383/106423 | BLK | 1.5U | ug/L | 2.0 | U |
| Naphthalene | 91-20-3 | BLK | 0.75U | ug/L | 1.0 | U |
| n-Butylbenzene | 104-51-8 | BLK | 0.75U | ug/L | 1.0 | U |
| n-Propylbenzene | 103-65-1 | BLK | 0.75U | ug/L | 1.0 | U |
| o-Chlorotoluene | 95-49-8 | BLK | 0.75U | ug/L | 1.0 | U |
| o-Xylene | 95-47-6 | BLK | 0.75U | ug/L | 1.0 | U |
| p-Chlorotoluene | 106-43-4 | BLK | 0.75U | ug/L | 1.0 | U |
| p-Isopropyltoluene | 99-87-6 | BLK | 0.75U | ug/L | 1.0 | U |
| sec-Butylbenzene | 135-98-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Styrene | 100-42-5 | BLK | 0.75U | ug/L | 1.0 | U |
| tert-Butylbenzene | 98-06-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Tetrachloroethene | 127-18-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Toluene | 108-88-3 | BLK | 0.75U | ug/L | 1.0 | U |
| trans-1,2-Dichloroethene | 156-60-5 | BLK | 0.75U | ug/L | 1.0 | U |
| trans-1,3-Dichloropropene | 10061-02-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Trichloroethene | 79-01-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Trichlorofluoromethane | 75-69-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Vinyl Chloride | 75-01-4 | BLK | 0.75U | ug/L | 1.0 | U |

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | BLK | 30.60 | 30 | 102 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | BLK | 26.80 | 30 | 89.4 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | BLK | 27.60 | 30 | 92 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | BLK | 30.30 | 30 | 101 | 89 - 112 | |



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**Project** HS24061196
**Workorder** 3366027

QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

***Lab Control Standard*** 3845976 (LCS) Created on 06/28/2024 10:24 For QC Batch 1236144

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | LCS | 19.10 | | 20 | 95.6 | 78 - 124 | | |
| 1,1,1-Trichloroethane | 71-55-6 | LCS | 21.50 | | 20 | 108 | 74 - 131 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | LCS | 21.60 | | 20 | 108 | 71 - 121 | | |
| 1,1,2-Trichloroethane | 79-00-5 | LCS | 20.70 | | 20 | 104 | 80 - 119 | | |
| 1,1-Dichloroethane | 75-34-3 | LCS | 20.80 | | 20 | 104 | 77 - 125 | | |
| 1,1-Dichloroethene | 75-35-4 | LCS | 21.50 | | 20 | 108 | 71 - 131 | | |
| 1,1-Dichloropropene | 563-58-6 | LCS | 20.60 | | 20 | 103 | 79 - 125 | | |
| 1,2,3-Trichlorobenzene | 87-61-6 | LCS | 19.50 | | 20 | 97.3 | 69 - 129 | | |
| 1,2,3-Trichloropropane | 96-18-4 | LCS | 21.20 | | 20 | 106 | 73 - 122 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | LCS | 24.10 | | 20 | 121 | 69 - 130 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | LCS | 20.10 | | 20 | 101 | 76 - 124 | | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | LCS | 18.90 | | 20 | 94.7 | 62 - 128 | | |
| 1,2-Dibromoethane | 106-93-4 | LCS | 19 | | 20 | 94.8 | 77 - 121 | | |
| 1,2-Dichlorobenzene | 95-50-1 | LCS | 21.90 | | 20 | 110 | 80 - 119 | | |
| 1,2-Dichloroethane | 107-06-2 | LCS | 19.70 | | 20 | 98.5 | 73 - 128 | | |
| 1,2-Dichloropropane | 78-87-5 | LCS | 20.80 | | 20 | 104 | 78 - 122 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | LCS | 21.20 | | 20 | 106 | 75 - 124 | | |
| 1,3-Dichlorobenzene | 541-73-1 | LCS | 22.10 | | 20 | 110 | 80 - 119 | | |
| 1,3-Dichloropropane | 142-28-9 | LCS | 21.60 | | 20 | 108 | 80 - 119 | | |
| 1,4-Dichlorobenzene | 106-46-7 | LCS | 21.80 | | 20 | 109 | 79 - 118 | | |
| 2,2-Dichloropropane | 594-20-7 | LCS | 21.30 | | 20 | 107 | 60 - 139 | | |
| 2-Butanone | 78-93-3 | LCS | 104 | | 100 | 104 | 56 - 143 | | |
| 2-Hexanone | 591-78-6 | LCS | 103 | | 100 | 103 | 57 - 139 | | |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | LCS | 104 | | 100 | 104 | 67 - 130 | | |
| Acetone | 67-64-1 | LCS | 108 | | 100 | 108 | 39 - 160 | | |
| Benzene | 71-43-2 | LCS | 19.90 | | 20 | 99.3 | 79 - 120 | | |
| Bromobenzene | 108-86-1 | LCS | 20.10 | | 20 | 100 | 80 - 120 | | |
| Bromochloromethane | 74-97-5 | LCS | 21.20 | | 20 | 106 | 78 - 123 | | |
| Bromodichloromethane | 75-27-4 | LCS | 18.80 | | 20 | 94.2 | 79 - 125 | | |
| Bromoform | 75-25-2 | LCS | 18.10 | | 20 | 90.3 | 66 - 130 | | |
| Bromomethane | 74-83-9 | LCS | 20 | | 20 | 100 | 53 - 141 | | |
| Carbon Disulfide | 75-15-0 | LCS | 21.10 | | 20 | 106 | 64 - 133 | | |
| Carbon Tetrachloride | 56-23-5 | LCS | 17.40 | | 20 | 87.2 | 72 - 136 | | |
| Chlorobenzene | 108-90-7 | LCS | 20.60 | | 20 | 103 | 82 - 118 | | |
| Chlorodibromomethane | 124-48-1 | LCS | 18.10 | | 20 | 90.4 | 74 - 126 | | |
| Chloroethane | 75-00-3 | LCS | 20.30 | | 20 | 102 | 60 - 138 | | |
| Chloroform | 67-66-3 | LCS | 20.80 | | 20 | 104 | 79 - 124 | | |
| Chloromethane | 74-87-3 | LCS | 20.10 | | 20 | 100 | 50 - 139 | | |
| cis-1,2-Dichloroethene | 156-59-2 | LCS | 21.10 | | 20 | 106 | 78 - 123 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | LCS | 18.90 | | 20 | 94.3 | 75 - 124 | | |
| Dibromomethane | 74-95-3 | LCS | 20.20 | | 20 | 101 | 79 - 123 | | |
| Dichlorodifluoromethane | 75-71-8 | LCS | 20.10 | | 20 | 101 | 32 - 152 | | |
| Ethylbenzene | 100-41-4 | LCS | 19.10 | | 20 | 95.7 | 79 - 121 | | |
| Hexachlorobutadiene | 87-68-3 | LCS | 22.70 | | 20 | 113 | 66 - 134 | | |



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**Project** HS24061196
**Workorder** 3366027

QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 98-82-8 | LCS | 24.20 | | 20 | 121 | 72 - 131 | | |
| Methylene Chloride | 75-09-2 | LCS | 21.40 | | 20 | 107 | 74 - 124 | | |
| mp-Xylene | 108383/106423 | LCS | 38.90 | | 40 | 97.2 | 80 - 121 | | |
| Naphthalene | 91-20-3 | LCS | 19.90 | | 20 | 99.6 | 61 - 128 | | |
| n-Butylbenzene | 104-51-8 | LCS | 21.30 | | 20 | 107 | 75 - 128 | | |
| n-Propylbenzene | 103-65-1 | LCS | 21.10 | | 20 | 106 | 76 - 126 | | |
| o-Chlorotoluene | 95-49-8 | LCS | 21.40 | | 20 | 107 | 79 - 122 | | |
| o-Xylene | 95-47-6 | LCS | 19.30 | | 20 | 96.4 | 78 - 122 | | |
| p-Chlorotoluene | 106-43-4 | LCS | 22.40 | | 20 | 112 | 78 - 122 | | |
| p-Isopropyltoluene | 99-87-6 | LCS | 21.80 | | 20 | 109 | 77 - 127 | | |
| sec-Butylbenzene | 135-98-8 | LCS | 22.90 | | 20 | 115 | 77 - 126 | | |
| Styrene | 100-42-5 | LCS | 21.20 | | 20 | 106 | 78 - 123 | | |
| tert-Butylbenzene | 98-06-6 | LCS | 22.50 | | 20 | 113 | 78 - 124 | | |
| Tetrachloroethene | 127-18-4 | LCS | 20.20 | | 20 | 101 | 74 - 129 | | |
| Toluene | 108-88-3 | LCS | 19.60 | | 20 | 98.2 | 80 - 121 | | |
| trans-1,2-Dichloroethene | 156-60-5 | LCS | 21.50 | | 20 | 108 | 75 - 124 | | |
| trans-1,3-Dichloropropene | 10061-02-6 | LCS | 19.60 | | 20 | 97.9 | 73 - 127 | | |
| Trichloroethene | 79-01-6 | LCS | 20.20 | | 20 | 101 | 79 - 123 | | |
| Trichlorofluoromethane | 75-69-4 | LCS | 19.30 | | 20 | 96.5 | 65 - 141 | | |
| Vinyl Chloride | 75-01-4 | LCS | 19.70 | | 20 | 98.7 | 58 - 137 | | |

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | LCS | 30.40 | 30 | 101 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | LCS | 29.20 | 30 | 97.3 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | LCS | 29.70 | 30 | 98.9 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | LCS | 30.30 | 30 | 101 | 89 - 112 | |



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**Project** HS24061196
**Workorder** 3366027

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

| Lab ID | Sample ID | Preparation Method | Prep Batch | Prep Date/Time | By | Analysis Method | Anly Batch |
|---|---|---|---|---|---|---|---|
| 3366027001 | HS24061196-01 | N/A | N/A | N/A | | SW846 8260D | 1236144 |
| | | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366027002 | HS24061196-02 | N/A | N/A | N/A | | SW846 8260D | 1236144 |
| 3366027003 | HS24061196-03 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366027004 | HS24061196-04 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366027005 | HS24061196-05 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366027006 | HS24061196-06 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366027007 | HS24061196-07 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366027008 | HS24061196-08 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366027009 | HS24061196-09 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366027010 | HS24061196-10 | N/A | N/A | N/A | | SW846 8260D | 1235282 |
| 3366027011 | HS24061196-11 | N/A | N/A | N/A | | SW846 8260D | 1235666 |



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10450 Stancliff Rd, Ste 210
Houston, TX 77099
**T:** +1 281 530 5656
**F:** +1 281 530 5887
**www.alsglobal.com**

# Subcontract Chain of Custody

**SAMPLING STATE:** **Texas** **COC ID:** **26143**

**SUBCONTRACT TO:**

ALS
301 Fulling Mill Road
Middletown, PA 17057

**Phone:** +1 717 702 2244

3366027
Logged By: MJE
PM: SSL



**CUSTOMER INFORMATION:**

| | |
|---|---|
| **Company:** | ALS Houston |
| **Contact:** | Luis.Aguilar |
| **Address:** | 10450 Stancliff Rd, Ste 210 |
| **Phone:** | +1 281 530 5656 |
| **Email:** | luis.aguilar@alsglobal.com |
| **Alternate Contact:** | Jumoke M. Lawal |
| **Email:** | jumoke.lawal@alsglobal.com |

**INVOICE INFORMATION:**

| | |
|---|---|
| **Company:** | ALS Houston |
| **Contact:** | Accounts Payable |
| **Address:** | 10450 Stancliff Rd, Ste 210 |
| **Phone:** | +1 281 530 5656 |
| **Reference:** | HS24061196 |
| **TSR:** | Sonia West |

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|---|---|---|---|---|
| | ANALYSIS REQUESTED | | | DUE DATE |
| 1. | **HS24061196-01** | **18CPTMW14_061824** | **Water** | **18 Jun 2024 07:10** |
| | Custom selection | | | 03 Jul 2024 |
| 2. | **HS24061196-02** | **18WW03_061824** | **Water** | **18 Jun 2024 08:00** |
| | Custom selection | | | 03 Jul 2024 |
| 3. | **HS24061196-03** | **CO8_061824** | **Water** | **18 Jun 2024 08:45** |
| | Custom selection | | | 03 Jul 2024 |
| 4. | **HS24061196-04** | **1824DPTMW04_061824** | **Water** | **18 Jun 2024 09:30** |
| | Custom selection | | | 03 Jul 2024 |
| 5. | **HS24061196-05** | **18WW24_061824** | **Water** | **18 Jun 2024 10:15** |
| | Custom selection | | | 03 Jul 2024 |
| 6. | **HS24061196-06** | **18WW24_061824_a** | **Water** | **18 Jun 2024 10:15** |
| | Custom selection | | | 03 Jul 2024 |
| 7. | **HS24061196-07** | **CO2_061824** | **Water** | **18 Jun 2024 11:00** |
| | Custom selection | | | 03 Jul 2024 |
| 8. | **HS24061196-08** | **MW13_061824** | **Water** | **18 Jun 2024 11:40** |
| | Custom selection | | | 03 Jul 2024 |
| 9. | **HS24061196-09** | **MW13_061824_a** | **Water** | **18 Jun 2024 11:40** |

MSE 6/26/24
3-G/HCL





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# Subcontract Chain of Custody

**SAMPLING STATE:** **Texas** **COC ID:** **26143**

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|---|---|---|---|---|
| | ANALYSIS REQUESTED | | | DUE DATE |
| | Custom selection | | | 03 Jul 2024 |
| **10.** | **HS24061196-10** | **CO6_061824** 9-G\|HCL MS\|MSD | **Water** | **18 Jun 2024 12:30** |
| | Custom selection | | | 03 Jul 2024 |
| **11.** | **HS24061196-11** | **Trip Blank** 2-G\|HCL | **Water** | **18 Jun 2024 00:00** |
| | Custom selection | | | 03 Jul 2024 |

**Comments:** Please analyze for the analysis listed above.
Send report to the emails shown above.

**QC Level:** DOD IV (DoD Data Package)

Temp By: MJE | WO Temp (°C): 1° | Therm ID: 570

| | | |
|---|---|---|
| Receipt Info Completed By: | MJE | |
| Cooler Custody Seal Intact | Y N NA | |
| Sample Custody Seal Intact | Y N NA | |
| Received on Ice | Y N | |
| Cooler & Samples Intact | Y N | |
| Correct Containers Provided | Y N | |
| Sample Label/COC Agree | Y N | |
| Adequate Sample Volumes | Y N NA | |
| CR6 Samples Filtered | Y N NA | |
| OP Samples Filtered | Y N NA | |
| VOA Trip Blank | Y N | |
| NI≤4 Days? | | |
| Rad Screen (uCi) | | |
| Courier/Tracking #: | 738879234761 | |
| SDWA Compliance | Y N | |
| PWSID | | |
| WV Containers 0-6°C | Y N NA | |

*No sampler, GK, G\|HCL-MJE 6/26/24

pm notified wo2724

Relinquished By: _____ Date/Time: _____

Received By: Fedex Date/Time: _____

~~Cooler ID(s):~~ Fedex ~~Temperature(s):~~ 6/26/24 936

6/26/24 936



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# HS24061196-MSSEMI-SW8270SIM

ALS WO# HS24061196

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Form 2

# System Monitoring Compound Recovery

## Semi-Volatiles by Semivolatiles SIM

Workorder

HS24061196

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/25/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

# Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24061196

## Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-471227

### 18CPTMW14_061824

| Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|
| Water | 07/03/24 13:33 | %REC | 1 |

Lab Sample ID HS24061196-01

Instrument ID SV6

| Surrogate | FileID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 08.D | 0.065 | 0.08 | 80.9 | | 40-140 |
| 4-Terphenyl-d14 | 08.D | 0.045 | 0.08 | 56.4 | | 40-140 |
| Nitrobenzene-d5 | 08.D | 0.057 | 0.08 | 70.7 | | 40-140 |

### 18WW03_061824

| Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|
| Water | 07/03/24 13:50 | %REC | 1 |

Lab Sample ID HS24061196-02

Instrument ID SV6

| Surrogate | FileID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 09.D | 0.059 | 0.08 | 73.2 | | 40-140 |
| 4-Terphenyl-d14 | 09.D | 0.057 | 0.08 | 71.7 | | 40-140 |
| Nitrobenzene-d5 | 09.D | 0.055 | 0.08 | 69.3 | | 40-140 |

### CO8_061824

| Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|
| Water | 07/03/24 14:08 | %REC | 1 |

Lab Sample ID HS24061196-03

Instrument ID SV6

| Surrogate | FileID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 10.D | 0.056 | 0.08 | 69.9 | | 40-140 |
| 4-Terphenyl-d14 | 10.D | 0.051 | 0.08 | 63.8 | | 40-140 |
| Nitrobenzene-d5 | 10.D | 0.052 | 0.08 | 65.3 | | 40-140 |

### 1824DPTMW04_061824

| Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|
| Water | 07/03/24 14:25 | %REC | 1 |

Lab Sample ID HS24061196-04

Instrument ID SV6

| Surrogate | FileID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 11.D | 0.062 | 0.08 | 77.8 | | 40-140 |
| 4-Terphenyl-d14 | 11.D | 0.057 | 0.08 | 70.7 | | 40-140 |
| Nitrobenzene-d5 | 11.D | 0.059 | 0.08 | 74.2 | | 40-140 |

# Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24061196

## Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-471227

### LCS-213966

| | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|
| Lab Sample ID LCS-213966<br>Instrument ID SV6 | Aqueous | 07/03/24 12:58 | %REC | 1 |

| Surrogate | FileID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 06.D | 0.05954 | 0.08 | 74.4 | | 40-140 |
| 4-Terphenyl-d14 | 06.D | 0.05191 | 0.08 | 64.9 | | 40-140 |
| Nitrobenzene-d5 | 06.D | 0.0559 | 0.08 | 69.9 | | 40-140 |

### LCSD-213966

| | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|
| Lab Sample ID LCSD-213966<br>Instrument ID SV6 | Aqueous | 07/03/24 13:15 | %REC | 1 |

| Surrogate | FileID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 07.D | 0.06074 | 0.08 | 75.9 | | 40-140 |
| 4-Terphenyl-d14 | 07.D | 0.05107 | 0.08 | 63.8 | | 40-140 |
| Nitrobenzene-d5 | 07.D | 0.0564 | 0.08 | 70.5 | | 40-140 |

### MBLK-213966

| | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|
| Lab Sample ID MBLK-213966<br>Instrument ID SV6 | Aqueous | 07/03/24 12:40 | %REC | 1 |

| Surrogate | FileID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 05.D | 0.05731 | 0.08 | 71.6 | | 40-140 |
| 4-Terphenyl-d14 | 05.D | 0.04527 | 0.08 | 56.6 | | 40-140 |
| Nitrobenzene-d5 | 05.D | 0.05426 | 0.08 | 67.8 | | 40-140 |

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Form 3B

# Laboratory Control Sample Recovery

## EPA 3510

Workorder

HS24061196

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/25/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

# Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24061196

## EPA 3510

SAMPLENUM LCS-213966

| SV-6_471227 | | | | LCS-213966 | | LCSD-213966 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Spike Matrix | Aqueous | Result Units | ug/L | Run Date | 07/03/24 | Run Date | 07/03/24 | | | | |
| Prep Date | 06/23/24 | Analysis Batch | 213966 | Run Time | 12:58 | Run Time | 13:15 | | | | |
| Prep Method | SW3510 | Prep Batch | 213966 | Prep Amt | 1000 mL | Prep Amt | 1000 mL | | | | |

| Analyte | %Recovery Limits | Spike Added | LCS Result | %R | Q | LCSD Result | %R | Q | RPD Limit | RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 40-140 | 0.08 | 0.05215 | 65 | | 0.05072 | 63 | | 20 | 2.77 | |

right solutions.
right partner.

Form 4

# Method Blank Summary

## EPA 3510

Workorder

HS24061196

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/25/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

# Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24061196

## EPA 3510

| METHOD BLANK | Prep Date | Prep Batch | Matrix | Analysis Date | Analysis Batch | Inst ID |
|---|---|---|---|---|---|---|
| MBLK-213966 | 06/23/24 | 213966 | Aqueous | 07/03/24 12:40 | 213966 | SV6 |

| Client Sample ID | Lab Sample ID | Type | Analysis Date | Analysis Batch | Inst ID | FileID |
|---|---|---|---|---|---|---|
| LCS-213966 | LCS-213966 | LCS | 07/03/24 12:58 | 213966 | SV6 | 06.D |
| LCSD-213966 | LCSD-213966 | LCSD | 07/03/24 13:15 | 213966 | SV6 | 07.D |
| 18CPTMW14_061824 | HS24061196-01 | SAMP | 07/03/24 13:33 | 213966 | SV6 | 08.D |
| 18WW03_061824 | HS24061196-02 | SAMP | 07/03/24 13:50 | 213966 | SV6 | 09.D |
| CO8_061824 | HS24061196-03 | SAMP | 07/03/24 14:08 | 213966 | SV6 | 10.D |
| 1824DPTMW04_061824 | HS24061196-04 | SAMP | 07/03/24 14:25 | 213966 | SV6 | 11.D |

right solutions.
right partner.

Form 5

# Instrument Performance Check

# Semi-Volatiles by Semivolatiles SIM

Workorder

HS24061196

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/25/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA80227

Lab File ID: 01 BFB Injection Date: 04/18/24

Instrument ID: SV6 BFB Injection Time: 1039

GC Column: DB-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 23.6 |
| 68 | Less than 2.0% of mass 69 | 0.5 ( 1.8)1 |
| 69 | Mass 69 relative abundance | 28.8 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.5)1 |
| 127 | 10.0 - 80.0% of mass 198 | 39.7 |
| 197 | Less than 2.0% of mass 198 | 0.4 |
| 198 | Base Peak, 100% relative abundance | 100.0 |
| 199 | 5.0 to 9.0% of mass 198 | 6.7 |
| 275 | 10.0 - 60.0% of mass 198 | 30.4 |
| 365 | 1.0 - 100.0% of mass 198 | 4.0 |
| 441 | Present, but less than mass 443 | 20.5 |
| 442 | 50.0 - 150.0% of mass 198 | 139.9 |
| 443 | 15.0 - 24.0% of mass 442 | 27.6 ( 19.7)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|---|
| 01 | SLSTD-2.5 | SLSTD-2.5 | 02 | 04/18/24 | 1051 |
| 02 | 14DX-0.08 | 14DX-0.08 | 03A | 04/18/24 | 1224 |
| 03 | | 14DX-0.01 | 04 | 04/18/24 | 1249 |
| 04 | | 14DX-0.03 | 05 | 04/18/24 | 1307 |
| 05 | | 14DX-0.05 | 06 | 04/18/24 | 1325 |
| 06 | | 14DX-0.10 | 07 | 04/18/24 | 1342 |
| 07 | | 14DX-0.15 | 08 | 04/18/24 | 1400 |
| 08 | | 14DX-0.20 | 09 | 04/18/24 | 1418 |
| 09 | | 14DX-0.50 | 10 | 04/18/24 | 1435 |
| 10 | 14DX ICV-0.08 | 14DX ICV-0.08 | 11 | 04/18/24 | 1453 |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |



FORM V SV

# FORM 5
## SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID: 01 BFB Injection Date: 07/03/24

Instrument ID: SV6 BFB Injection Time: 0849

GC Column: DB-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 25.6 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 2.0)1 |
| 69 | Mass 69 relative abundance | 30.2 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6)1 |
| 127 | 10.0 - 80.0% of mass 198 | 40.2 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100.0 |
| 199 | 5.0 to 9.0% of mass 198 | 6.4 |
| 275 | 10.0 - 60.0% of mass 198 | 29.6 |
| 365 | 1.0 - 100.0% of mass 198 | 3.1 |
| 441 | Present, but less than mass 443 | 16.3 |
| 442 | 50.0 - 150.0% of mass 198 | 112.8 |
| 443 | 15.0 - 24.0% of mass 442 | 22.4 ( 19.8)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|---|
| 01 | 14DX-0.08 | 14DX-0.08 | 04B | 07/03/24 | 1159 |
| 02 | MBLK-213966 | MBLK-213966 | 05 | 07/03/24 | 1240 |
| 03 | LCS-213966 | LCS-213966 | 06 | 07/03/24 | 1258 |
| 04 | LCSD-213966 | LCSD-213966 | 07 | 07/03/24 | 1315 |
| 05 | HS24061196-0 | HS24061196-01 | 08 | 07/03/24 | 1333 |
| 06 | HS24061196-0 | HS24061196-02 | 09 | 07/03/24 | 1350 |
| 07 | HS24061196-0 | HS24061196-03 | 10 | 07/03/24 | 1408 |
| 08 | HS24061196-0 | HS24061196-04 | 11 | 07/03/24 | 1425 |
| 09 | 14DX-0.08 | 14DX-0.08 | 16 | 07/03/24 | 1552 |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |

Report Date : 06-Jun-2024 14:30 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAR-2022 10:25
End Cal Date : 18-APR-2024 14:35
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Last Edit : 06-Jun-2024 11:07 SV6.i
Curve Type : Average

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Level 2: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Level 3: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Level 4: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Level 5: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Level 6: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Level 7: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Level 8: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D

| Compound | 0.01000 Level 1 / 0.20000 Level 7 | 0.03000 Level 2 / 0.50000 Level 8 | 0.05000 Level 3 | 0.08000 Level 4 | 0.10000 Level 5 | 0.15000 Level 6 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| 1 1,4-Dioxane | 0.26786 / 0.21892 | 0.20193 / 0.19957 | 0.21510 | 0.19340 | 0.20406 | 0.21271 | 0.21419 | 10.884 |
| $ 9 2-Fluorophenol | ##### / ##### | ##### / ##### | ##### | ##### | ##### | ##### | ##### | ##### |
| $ 13 Phenol-d6 | ##### / ##### | ##### / ##### | ##### | ##### | ##### | ##### | ##### | ##### |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| $ 33 Nitrobenzene-d5 | 0.25417 | 0.27709 | 0.33446 | 0.25539 | 0.31770 | 0.31230 | | |
| | 0.32399 | 0.32657 | | | | | 0.30021 | 10.938 |
| $ 69 2-Fluorobiphenyl | 1.58567 | 1.48291 | 1.52552 | 1.25243 | 1.62605 | 1.59900 | | |
| | 1.54935 | 1.60832 | | | | | 1.52866 | 7.930 |
| $ 105 2,4,6-Tribromophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | | | | | +++++ | +++++ |
| $ 158 4-Terphenyl-d14 | 2.22448 | 1.99483 | 2.00359 | 1.46918 | 2.10278 | 2.04892 | | |
| | 2.19122 | 2.26244 | | | | | 2.03718 | 12.300 |

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right partner.

Form 6I

# Initial Calibration Verification (ICV)

## Semi-Volatiles by Semivolatiles SIM

Workorder

HS24061196

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/25/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

# Form 6I Initial Calibration Verification (ICV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP 18 24

**Workorder** HS24061196

RunID 11.D

## Semi-Volatiles by Semivolatiles SIM

**Sample Matrix** LIQUID
**Lab Smp Id** 14DX ICV-0.08
**Data Type** MS DATA
**File ID** 11.D

**Fraction** SV
**Client Smp ID** 14DX ICV-0.08
**SampleType** METHSPIKE
**Inj Date** 18-APR-2024 1453

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| 1,4-Dioxane | 0.080 | 0.076 | 94.6 | 80-120 | |
| Nitrobenzene-d5 | 0.080 | 0.073 | 91.4 | 40-140 | |
| 2-Fluorobiphenyl | 0.080 | 0.070 | 88.0 | 40-140 | |
| 4-Terphenyl-d14 | 0.080 | 0.071 | 88.2 | 40-140 | |

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Form 7

# Continuing Calibration Verification (CCV)

## Semi-Volatiles by Semivolatiles SIM

Workorder

HS24061196

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/25/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

# Form 7 Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP 18 24

**Workorder** HS24061196

**RunID** 04B.D

## Semi-Volatiles by Semivolatiles SIM

**Instrument ID** SV6.i
**Lab File ID** 04B.D
**Analysis Type** WATER
**Lab Sample ID** 14DX-0.08

**Injection Date** 03-JUL-2024 1159
**ICAL Date(s)** 10-MAR-2022, 18-APR-2024
**ICAL Times** 10:25, 14:35
**Quant Type** ISTD

| Compound | RRF / Conc | RF0.080 | Min RRF | %D / %DRIFT | Max %D / %DRIFT | CURVE TYPE | Q |
|---|---|---|---|---|---|---|---|
| 33 Nitrobenzene-d5 | 0.300 | 0.284 | 0.010 | -5.410 | 20.0 | Averaged | |
| 69 2-Fluorobiphenyl | 1.53 | 1.48 | 0.010 | -3.405 | 20.0 | Averaged | |
| 158 4-Terphenyl-d14 | 2.04 | 1.68 | 0.010 | -17.493 | 20.0 | Averaged | |
| 1,4-Dioxane | 0.214 | 0.194 | 0.010 | -9.324 | 20.0 | Averaged | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP 18 24

**Workorder** HS24061196

**RunID** 16.D

## Semi-Volatiles by Semivolatiles SIM

**Instrument ID** SV6.i
**Lab File ID** 16.D
**Analysis Type** WATER
**Lab Sample ID** 14DX-0.08

**Injection Date** 03-JUL-2024 1552
**ICAL Date(s)** 10-MAR-2022, 18-APR-2024
**ICAL Times** 10:25, 14:35
**Quant Type** ISTD

| Compound | RRF / Conc | RF0.080 | Min RRF | %D / %DRIFT | Max %D / %DRIFT | CURVE TYPE | Q |
|---|---|---|---|---|---|---|---|
| 33 Nitrobenzene-d5 | 0.300 | 0.299 | 0.010 | -0.493 | 20.0 | Averaged | |
| 69 2-Fluorobiphenyl | 1.53 | 1.69 | 0.010 | 10.4 | 20.0 | Averaged | |
| 158 4-Terphenyl-d14 | 2.04 | 1.72 | 0.010 | -15.688 | 20.0 | Averaged | |
| 1,4-Dioxane | 0.214 | 0.198 | 0.010 | -7.589 | 20.0 | Averaged | |

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 04B Date Analyzed: 07/03/24

Instrument ID: SV6 Time Analyzed: 1159

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

| | | IS1(DCB) AREA # | RT # | IS2(NPT) AREA # | RT # | IS3(ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 2510 | 3.50 | 8148 | 4.58 | 4937 | 6.24 |
| | UPPER LIMIT | 5020 | 4.00 | 16296 | 5.08 | 9874 | 6.74 |
| | LOWER LIMIT | 1255 | 3.00 | 4074 | 4.08 | 2469 | 5.74 |
| | CLIENT SAMPLE NO. | | | | | | |
| 01 | MBLK-213966 | 4392 | 3.51 | 13879 | 4.58 | 8412 | 6.25 |
| 02 | LCS-213966 | 3008 | 3.50 | 9707 | 4.58 | 5920 | 6.24 |
| 03 | LCSD-213966 | 2660 | 3.50 | 8003 | 4.58 | 4893 | 6.24 |
| 04 | HS24061196-0 | 3285 | 3.51 | 10862 | 4.58 | 6792 | 6.24 |
| 05 | HS24061196-0 | 3613 | 3.51 | 11812 | 4.58 | 7392 | 6.25 |
| 06 | HS24061196-0 | 3721 | 3.51 | 12167 | 4.58 | 7545 | 6.24 |
| 07 | HS24061196-0 | 2499 | 3.50 | 7603 | 4.58 | 4732 | 6.24 |
| 08 | | | | | | | |
| 09 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.



FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 04B Date Analyzed: 07/03/24

Instrument ID: SV6 Time Analyzed: 1159

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

| | | IS4(PHN) AREA # | IS4(PHN) RT # | IS5(CRY) AREA # | IS5(CRY) RT # | IS6(PRY) AREA # | IS6(PRY) RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 9658 | 7.69 | 8162 | 10.65 | 9007 | 12.82 |
| | UPPER LIMIT | 19316 | 8.19 | 16324 | 11.15 | 18014 | 13.32 |
| | LOWER LIMIT | 4829 | 7.19 | 4081 | 10.15 | 4504 | 12.32 |
| | CLIENT SAMPLE NO. | | | | | | |
| 01 | MBLK-213966 | 16293 | 7.70 | 15037 | 10.66 | 14725 | 12.82 |
| 02 | LCS-213966 | 11519 | 7.69 | 10808 | 10.65 | 11024 | 12.82 |
| 03 | LCSD-213966 | 9556 | 7.69 | 8980 | 10.65 | 9194 | 12.82 |
| 04 | HS24061196-0 | 13446 | 7.69 | 13080 | 10.65 | 12942 | 12.82 |
| 05 | HS24061196-0 | 14589 | 7.69 | 13911 | 10.65 | 14302 | 12.82 |
| 06 | HS24061196-0 | 15202 | 7.69 | 14643 | 10.65 | 14856 | 12.82 |
| 07 | HS24061196-0 | 9383 | 7.70 | 9063 | 10.65 | 9076 | 12.82 |
| 08 | | | | | | | |
| 09 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.



FORM VIII SV

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# Analysis Run Log

## Semi-Volatiles by Semivolatiles SIM

Workorder

HS24061196

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/25/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

# SV06 -Logbook

**Batch:** 59721 **Analyst:** Marco Gutierrez

**Date:** 04-18-2024 **Reviewer:**

**Method:** R8270D 14dx ICAL **Laboratory:** Houston

**Comments:**

| # | Samp ID | Type | Analyzed | DF | Init Wt/Vol | Final Vol | File ID | Matrix | Status | pH |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DFTPP | TUNE | 04-18-2024 10:39 am | 1.00 | 0.00 gm | 0.00 mL | 01.D | | Y | NA |
| 2 | SLSTD-2.5 | CCV | 04-18-2024 10:51 am | 1.00 | 1000.00 mL | 1000.00 mL | 02.D | Liquid | Y | NA |
| 3 | 14DX-0.08 | ICAL4 | 04-18-2024 12:24 pm | 1.00 | 1000.00 mL | 1000.00 mL | 03A.D | Liquid | Y | NA |
| 4 | 14DX-0.01 | ICAL1 | 04-18-2024 12:49 pm | 1.00 | 1000.00 mL | 1000.00 mL | 04.D | Liquid | Y | NA |
| 5 | 14DX-0.03 | ICAL2 | 04-18-2024 01:07 pm | 1.00 | 1000.00 mL | 1000.00 mL | 05.D | Liquid | Y | NA |
| 6 | 14DX-0.05 | ICAL3 | 04-18-2024 01:25 pm | 1.00 | 1000.00 mL | 1000.00 mL | 06.D | Liquid | Y | NA |
| 7 | 14DX-0.10 | ICAL5 | 04-18-2024 01:42 pm | 1.00 | 1000.00 mL | 1000.00 mL | 07.D | Liquid | Y | NA |
| 8 | 14DX-0.15 | ICAL6 | 04-18-2024 02:00 pm | 1.00 | 1000.00 mL | 1000.00 mL | 08.D | Liquid | Y | NA |
| 9 | 14DX-0.20 | ICAL7 | 04-18-2024 02:18 pm | 1.00 | 1000.00 mL | 1000.00 mL | 09.D | Liquid | Y | NA |
| 10 | 14DX-0.50 | ICAL8 | 04-18-2024 02:35 pm | 1.00 | 1000.00 mL | 1000.00 mL | 10.D | Liquid | Y | NA |
| 11 | 14DX ICV-0.08 | ICV | 04-18-2024 02:53 pm | 1.00 | 1000.00 mL | 1000.00 mL | 11.D | Liquid | Y | NA |
| 12 | SIM CCB | SAMP | 04-18-2024 04:10 pm | 1.00 | 1000.00 mL | 1000.00 mL | 12.D | Liquid | Y | NA |
| 13 | MBLK-210508 | SAMP | 04-18-2024 04:28 pm | 1.00 | 1000.00 mL | 1000.00 mL | 13.D | Liquid | Y | NA |
| 14 | LCS-210508 | SAMP | 04-18-2024 04:45 pm | 1.00 | 1000.00 mL | 1000.00 mL | 14.D | Liquid | Y | NA |
| 15 | LCSD-210508 | SAMP | 04-18-2024 05:03 pm | 1.00 | 1000.00 mL | 1000.00 mL | 15.D | Liquid | Y | NA |
| 16 | HS24040786-01 | SAMP | 04-18-2024 05:21 pm | 1.00 | 1000.00 mL | 1000.00 mL | 16.D | Liquid | Y | NA |
| 17 | 14DX-0.08 | SAMP | 04-18-2024 05:38 pm | 1.00 | 1000.00 mL | 1000.00 mL | 17.D | Liquid | Y | NA |
| 18 | SIM CCB | SAMP | 04-18-2024 05:56 pm | 1.00 | 1000.00 mL | 1000.00 mL | 18.D | Liquid | Y | NA |
| 19 | HS24040667-03 | SAMP | 04-18-2024 06:14 pm | 1.00 | 1000.00 mL | 1000.00 mL | 19.D | Liquid | Y | NA |
| 20 | HS24040816-04 | SAMP | 04-18-2024 06:31 pm | 1.00 | 1000.00 mL | 1000.00 mL | 20.D | Liquid | Y | NA |
| 21 | HS24040816-05 | SAMP | 04-18-2024 06:49 pm | 1.00 | 1000.00 mL | 1000.00 mL | 21.D | Liquid | Y | NA |
| 22 | HS24040816-06 | SAMP | 04-18-2024 07:06 pm | 1.00 | 1000.00 mL | 1000.00 mL | 22.D | Liquid | Y | NA |
| 23 | HS24041063-01 | SAMP | 04-18-2024 07:24 pm | 1.00 | 1000.00 mL | 1000.00 mL | 23.D | Liquid | Y | NA |
| 24 | HS24041063-02 | SAMP | 04-18-2024 07:41 pm | 1.00 | 1000.00 mL | 1000.00 mL | 24.D | Liquid | Y | NA |
| 25 | HS24041063-03 | SAMP | 04-18-2024 07:59 pm | 1.00 | 1000.00 mL | 1000.00 mL | 25.D | Liquid | Y | NA |

# SV06 -Logbook

**Batch:** 60617 **Analyst:** Marco Gutierrez

**Date:** 07-03-2024 **Reviewer:**

**Method:** R8270D LVI/14dx **Laboratory:** Houston

**Comments:**

| # | Samp ID | Type | Analyzed | DF | Init Wt/Vol | Final Vol | File ID | Matrix | Status | pH |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DFTPP | TUNE | 07-03-2024 08:49 am | 1.00 | 0.00 gm | 0.00 mL | 01.D | | Y | NA |
| 2 | SLSTD-2.5 | CCV | 07-03-2024 09:01 am | 1.00 | 1000.00 mL | 1000.00 mL | 02.D | Liquid | Y | NA |
| 3 | PAHLVI-0.025 | CCV | 07-03-2024 11:38 am | 1.00 | 33.00 mL | 2000.00 mL | 03B.D | Liquid | Y | NA |
| 4 | 14DX-0.08 | CCV | 07-03-2024 11:59 am | 1.00 | 1000.00 mL | 1000.00 mL | 04B.D | Liquid | Y | NA |
| 5 | MBLK-213966 | MBLK | 07-03-2024 12:40 pm | 1.00 | 1000.00 mL | 1000.00 mL | 05.D | Liquid | Y | NA |
| 6 | LCS-213966 | LCS | 07-03-2024 12:58 pm | 1.00 | 1000.00 mL | 1000.00 mL | 06.D | Liquid | Y | NA |
| 7 | LCSD-213966 | LCSD | 07-03-2024 01:15 pm | 1.00 | 1000.00 mL | 1000.00 mL | 07.D | Liquid | Y | NA |
| 8 | HS24061196-01 | SAMP | 07-03-2024 01:33 pm | 1.00 | 1000.00 mL | 1000.00 mL | 08.D | Liquid | Y | NA |
| 9 | HS24061196-02 | SAMP | 07-03-2024 01:50 pm | 1.00 | 1000.00 mL | 1000.00 mL | 09.D | Liquid | Y | NA |
| 10 | HS24061196-03 | SAMP | 07-03-2024 02:08 pm | 1.00 | 1000.00 mL | 1000.00 mL | 10.D | Liquid | Y | NA |
| 11 | HS24061196-04 | SAMP | 07-03-2024 02:25 pm | 1.00 | 1000.00 mL | 1000.00 mL | 11.D | Liquid | Y | NA |
| 12 | HS24061313-02 | SAMP | 07-03-2024 02:42 pm | 1.00 | 1000.00 mL | 1000.00 mL | 12.D | Liquid | Y | NA |
| 13 | HS24061313-03 | SAMP | 07-03-2024 03:00 pm | 1.00 | 1000.00 mL | 1000.00 mL | 13.D | Liquid | Y | NA |
| 14 | HS24061313-05 | SAMP | 07-03-2024 03:17 pm | 1.00 | 1000.00 mL | 1000.00 mL | 14.D | Liquid | Y | NA |
| 15 | HS24061313-06 | SAMP | 07-03-2024 03:35 pm | 1.00 | 1000.00 mL | 1000.00 mL | 15.D | Liquid | Y | NA |
| 16 | 14DX-0.08 | CCV | 07-03-2024 03:52 pm | 1.00 | 1000.00 mL | 1000.00 mL | 16.D | Liquid | Y | NA |
| 17 | HS24061637-01RXT | SAMP | 07-03-2024 04:09 pm | 1.00 | 33.00 mL | 2000.00 mL | 17.D | Liquid | Y | NA |
| 18 | MBLK-214498 | SAMP | 07-03-2024 04:30 pm | 1.00 | 33.00 mL | 2000.00 mL | 18.D | Liquid | Y | NA |
| 19 | LCS-214498 | SAMP | 07-03-2024 04:51 pm | 1.00 | 33.00 mL | 2000.00 mL | 19.D | Liquid | Y | NA |
| 20 | LCSD-214498 | SAMP | 07-03-2024 05:11 pm | 1.00 | 33.00 mL | 2000.00 mL | 20.D | Liquid | Y | NA |
| 21 | MBLK-214025 | SAMP | 07-03-2024 05:32 pm | 1.00 | 33.00 mL | 2000.00 mL | 21.D | Liquid | Y | NA |
| 22 | LCS-214025 | SAMP | 07-03-2024 05:52 pm | 1.00 | 33.00 mL | 2000.00 mL | 22.D | Liquid | Y | NA |
| 23 | LCSD-214025 | SAMP | 07-03-2024 06:13 pm | 1.00 | 33.00 mL | 2000.00 mL | 23.D | Liquid | Y | NA |
| 24 | HS24061468-01 | SAMP | 07-03-2024 06:33 pm | 1.00 | 33.00 mL | 2000.00 mL | 24.D | Liquid | Y | NA |
| 25 | HS24061468-03 | SAMP | 07-03-2024 06:54 pm | 1.00 | 33.00 mL | 2000.00 mL | 25.D | Liquid | Y | NA |
| 26 | HS24061468-05 | SAMP | 07-03-2024 07:14 pm | 1.00 | 33.00 mL | 2000.00 mL | 26.D | Liquid | Y | NA |
| 27 | HS24061468-09 | SAMP | 07-03-2024 07:35 pm | 1.00 | 33.00 mL | 2000.00 mL | 27.D | Liquid | Y | NA |
| 28 | HS24061616-01RXT | SAMP | 07-03-2024 07:55 pm | 1.00 | 33.00 mL | 2000.00 mL | 28.D | Liquid | Y | NA |

right solutions.
right partner.

# RawData

## <textMethods>

Workorder

HS24061196

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/25/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\01.D Page 1
Report Date: 03-Jul-2024 09:29

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 03-JUL-2024 08:49
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240703.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

| | | | | | CONCENTRATIONS ON-COL ( ug/L) | FINAL ( ug/L) | | |
|---|---|---|---|---|---|---|---|---|
| RT | EXP RT | DLT RT | MASS | RESPONSE | | | TARGET RANGE | RATIO |
| 1 dftpp | | | | | | | CAS #: 5074-71-5 | |
| 5.587 | 5.571 | 0.016 | 198 | 123552 | | | 0.00- 100.00 | 88.68 |
| 5.587 | 6.357 | -0.770 | 51 | 31600 | | | 10.00- 80.00 | 25.58 |
| 5.587 | 6.357 | -0.770 | 68 | 740 | | | 0.00- 2.00 | 1.98 |
| 5.587 | 6.357 | -0.770 | 69 | 37312 | | | 0.00- 0.00 | 30.20 |
| 5.587 | 6.357 | -0.770 | 70 | 213 | | | 0.00- 2.00 | 0.57 |
| 5.587 | 6.357 | -0.770 | 127 | 49656 | | | 10.00- 80.00 | 40.19 |
| 5.587 | 6.357 | -0.770 | 197 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 5.587 | 6.357 | -0.770 | 199 | 7891 | | | 5.00- 9.00 | 6.39 |
| 5.587 | 6.357 | -0.770 | 275 | 36632 | | | 10.00- 60.00 | 29.65 |
| 5.587 | 6.357 | -0.770 | 365 | 3878 | | | 1.00- 100.00 | 3.14 |
| 5.587 | 6.357 | -0.770 | 441 | 20080 | | | 0.01- 99.99 | 72.69 |
| 5.587 | 6.357 | -0.770 | 442 | 139328 | | | 50.00- 150.00 | 112.77 |
| 5.587 | 6.357 | -0.770 | 443 | 27624 | | | 15.00- 24.00 | 19.83 |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 198 | 20.60 |
| 68 | Less than 2.00% of mass 69 | 0.45 ( 1.86) |
| 69 | Mass 69 relative abundance | 24.26 |
| 70 | Less than 2.00% of mass 69 | 0.07 ( 0.27) |
| 127 | 10.00 - 80.00% of mass 198 | 35.39 |
| 197 | Less than 2.00% of mass 198 | 0.00 |
| 199 | 5.00 - 9.00% of mass 198 | 6.61 |
| 275 | 10.00 - 60.00% of mass 198 | 33.50 |
| 365 | 1.00 - 100.00% of mass 198 | 4.24 |
| 441 | Present, but less than mass 443 | 26.29 |
| 442 | 50.00 - 150.00% of mass 198 | 180.10 * |
| 443 | 15.00 - 24.00% of mass 442 | 34.56 ( 19.19) |

Data File: 01.D
Spectrum: Avg. Scans 560-562 ( 5.59), Background Scan 555
Location of Maximum: 442.00
Number of points: 259

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 37.00 | 52 | 130.00 | 1223 | 199.00 | 7218 | 283.00 | 292 |
| 38.00 | 233 | 131.00 | 206 | 200.00 | 527 | 284.00 | 212 |
| 39.00 | 1362 | 132.00 | 78 | 201.00 | 579 | 285.00 | 469 |
| 40.00 | 56 | 134.00 | 530 | 203.00 | 685 | 289.00 | 51 |
| 44.00 | 245 | 135.00 | 1120 | 204.00 | 3551 | 290.00 | 55 |
| 49.00 | 352 | 136.00 | 466 | 205.00 | 6140 | 293.00 | 732 |
| 50.00 | 6054 | 137.00 | 571 | 206.00 | 27360 | 294.00 | 168 |
| 51.00 | 22496 | 138.00 | 137 | 207.00 | 3477 | 295.00 | 82 |
| 52.00 | 1084 | 140.00 | 155 | 208.00 | 901 | 296.00 | 8625 |
| 55.00 | 143 | 141.00 | 1879 | 209.00 | 310 | 297.00 | 1219 |
| 56.00 | 762 | 142.00 | 619 | 210.00 | 527 | 302.00 | 122 |
| 57.00 | 1849 | 143.00 | 481 | 211.00 | 1054 | 303.00 | 1018 |
| 61.00 | 294 | 144.00 | 56 | 215.00 | 280 | 304.00 | 200 |
| 62.00 | 373 | 145.00 | 121 | 216.00 | 538 | 308.00 | 69 |
| 63.00 | 1008 | 146.00 | 356 | 217.00 | 6919 | 314.00 | 450 |
| 64.00 | 53 | 147.00 | 889 | 218.00 | 948 | 315.00 | 979 |
| 65.00 | 449 | 148.00 | 2154 | 221.00 | 6285 | 316.00 | 685 |
| 68.00 | 494 | 149.00 | 401 | 222.00 | 135 | 317.00 | 64 |
| 69.00 | 26488 | 151.00 | 246 | 223.00 | 1695 | 321.00 | 371 |
| 70.00 | 71 | 152.00 | 70 | 224.00 | 16156 | 322.00 | 155 |
| 73.00 | 194 | 153.00 | 629 | 225.00 | 3819 | 323.00 | 3589 |
| 74.00 | 2632 | 154.00 | 496 | 226.00 | 442 | 324.00 | 582 |
| 75.00 | 4522 | 155.00 | 979 | 227.00 | 5965 | 327.00 | 613 |
| 76.00 | 1318 | 156.00 | 1705 | 228.00 | 746 | 328.00 | 305 |
| 77.00 | 30056 | 157.00 | 324 | 229.00 | 1358 | 332.00 | 240 |
| 78.00 | 1831 | 158.00 | 348 | 230.00 | 128 | 333.00 | 331 |
| 79.00 | 2285 | 159.00 | 314 | 231.00 | 575 | 334.00 | 2337 |
| 80.00 | 1563 | 160.00 | 654 | 232.00 | 53 | 335.00 | 599 |
| 81.00 | 2204 | 161.00 | 953 | 233.00 | 155 | 341.00 | 439 |
| 82.00 | 476 | 162.00 | 235 | 234.00 | 388 | 346.00 | 721 |
| 83.00 | 609 | 163.00 | 54 | 235.00 | 462 | 347.00 | 213 |
| 84.00 | 57 | 164.00 | 51 | 236.00 | 322 | 352.00 | 1078 |
| 85.00 | 383 | 165.00 | 940 | 237.00 | 530 | 353.00 | 802 |
| 86.00 | 586 | 166.00 | 655 | 239.00 | 226 | 354.00 | 1155 |
| 87.00 | 224 | 167.00 | 3956 | 240.00 | 202 | 355.00 | 279 |
| 91.00 | 547 | 168.00 | 1744 | 241.00 | 390 | 364.00 | 69 |
| 92.00 | 480 | 169.00 | 294 | 242.00 | 783 | 365.00 | 4633 |
| 93.00 | 3644 | 170.00 | 82 | 243.00 | 1086 | 366.00 | 660 |
| 94.00 | 285 | 171.00 | 225 | 244.00 | 13123 | 370.00 | 135 |
| 96.00 | 158 | 172.00 | 428 | 245.00 | 1830 | 371.00 | 185 |
| 98.00 | 2725 | 173.00 | 501 | 246.00 | 2546 | 372.00 | 2175 |
| 99.00 | 1935 | 174.00 | 993 | 247.00 | 439 | 373.00 | 469 |
| 100.00 | 107 | 175.00 | 1682 | 248.00 | 112 | 383.00 | 602 |
| 101.00 | 1320 | 176.00 | 455 | 249.00 | 534 | 384.00 | 94 |
| 103.00 | 389 | 177.00 | 932 | 250.00 | 79 | 390.00 | 285 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 104.00 | 875 | 178.00 | 254 | 251.00 | 131 | 391.00 | 256 |
| 105.00 | 797 | 179.00 | 3142 | 252.00 | 165 | 392.00 | 60 |
| 106.00 | 299 | 180.00 | 2247 | 253.00 | 404 | 401.00 | 54 |
| 107.00 | 10380 | 181.00 | 1057 | 255.00 | 71328 | 402.00 | 1022 |
| 108.00 | 1504 | 182.00 | 171 | 256.00 | 10003 | 403.00 | 1393 |
| 109.00 | 180 | 183.00 | 129 | 257.00 | 849 | 404.00 | 420 |
| 110.00 | 18696 | 184.00 | 237 | 258.00 | 3366 | 421.00 | 1230 |
| 111.00 | 2730 | 185.00 | 1708 | 259.00 | 610 | 422.00 | 1402 |
| 112.00 | 258 | 186.00 | 12977 | 261.00 | 57 | 423.00 | 9666 |
| 113.00 | 62 | 187.00 | 3815 | 264.00 | 63 | 424.00 | 1776 |
| 116.00 | 683 | 188.00 | 441 | 265.00 | 1479 | 425.00 | 244 |
| 117.00 | 7453 | 189.00 | 816 | 266.00 | 244 | 438.00 | 393 |
| 118.00 | 453 | 190.00 | 117 | 271.00 | 84 | 439.00 | 151 |
| 122.00 | 669 | 191.00 | 422 | 272.00 | 127 | 440.00 | 351 |
| 123.00 | 950 | 192.00 | 1159 | 273.00 | 2358 | 441.00 | 28712 |
| 124.00 | 499 | 193.00 | 1184 | 274.00 | 5804 | 442.00 | 196672 |
| 125.00 | 492 | 194.00 | 242 | 275.00 | 36584 | 443.00 | 37744 |
| 127.00 | 38648 | 195.00 | 155 | 276.00 | 4672 | 444.00 | 3377 |
| 128.00 | 2862 | 196.00 | 3421 | 277.00 | 2419 | 445.00 | 254 |
| 129.00 | 14832 | 198.00 | 109200 | 278.00 | 361 | | |

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\04B.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 03-JUL-2024 11:59
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240703.b\DXSIM.m
Meth Date : 03-Jul-2024 12:28 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

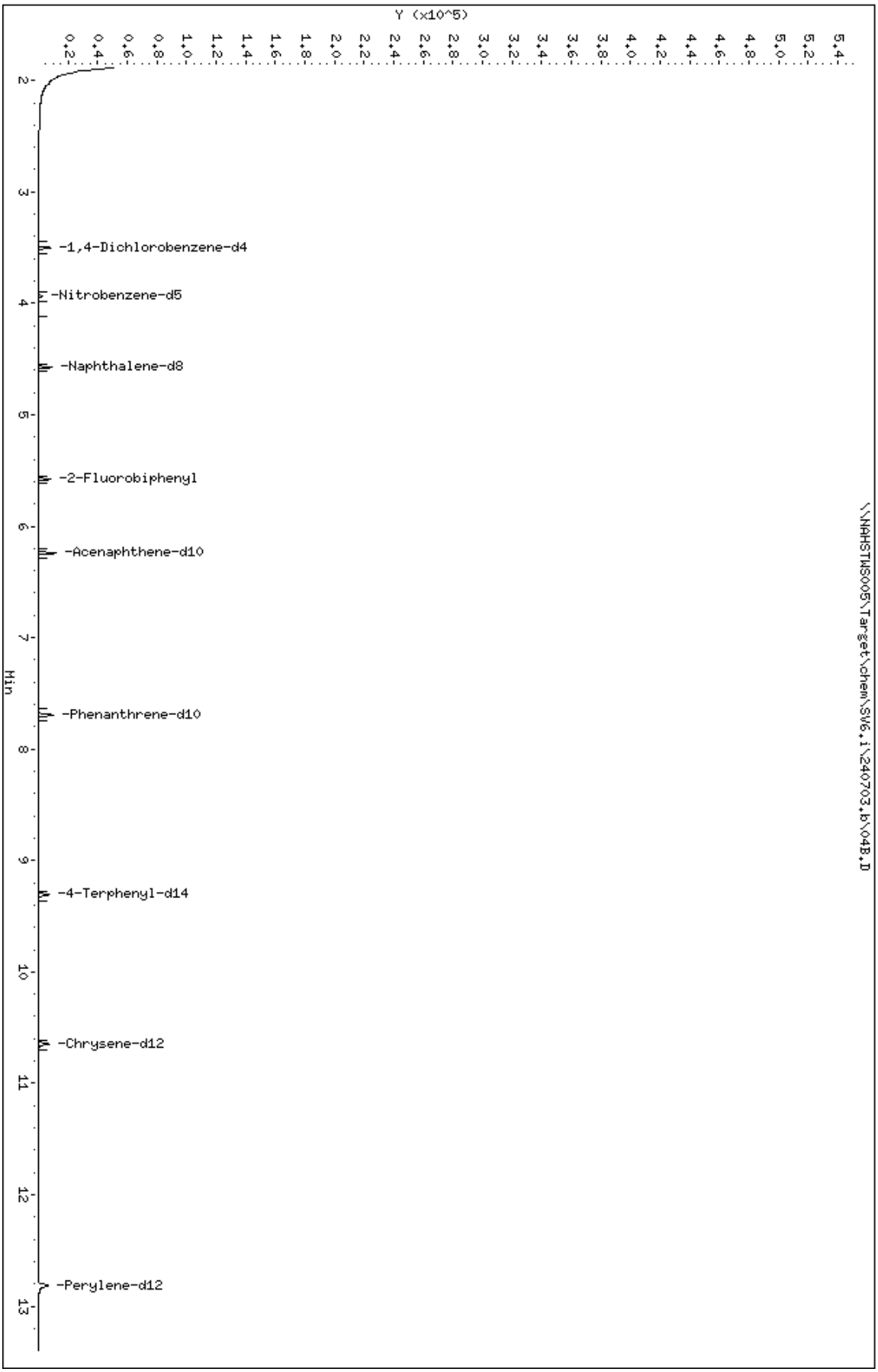
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | ON-COL ( NG) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 3.503 | 3.503 | (1.000) | 2510 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 4.576 | 4.576 | (1.000) | 8148 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.937 | 3.937 | (0.860) | 1851 | 0.08000 | 0.07567 |
| * 86 Acenaphthene-d10 | 164 | 6.239 | 6.239 | (1.000) | 4937 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 5.580 | 5.580 | (0.894) | 5832 | 0.08000 | 0.07728(M) |
| * 126 Phenanthrene-d10 | 188 | 7.693 | 7.693 | (1.000) | 9658 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 10.646 | 10.646 | (1.000) | 8162 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 9.306 | 9.306 | (0.874) | 10975 | 0.08000 | 0.06600(M) |
| * 198 Perylene-d12 | 264 | 12.818 | 12.818 | (1.000) | 9007 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 2.030 | 2.030 | (0.580) | 390 | 0.08000 | 0.07254(M) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.




Data File: \\NAHSTWS005\Target\chem\SV6,i\240703,b\04B,D
Date : 03-JUL-2024 11:59
Client ID: 14DX-0,08
Sample Info: 14DX-0,08
Purge Volume: 1000,0
Column phase: RTX-5SIL MS

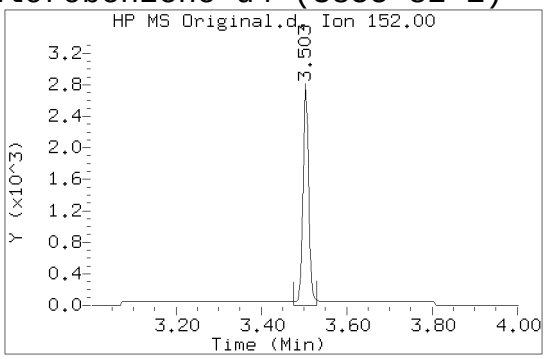
Instrument: SV6,i
Operator: LG
Column diameter: 0,28

Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\04B.D
Inj Date : 03-JUL-2024 11:59
InstruID : SV6.i
LabSampID : 14DX-0.08

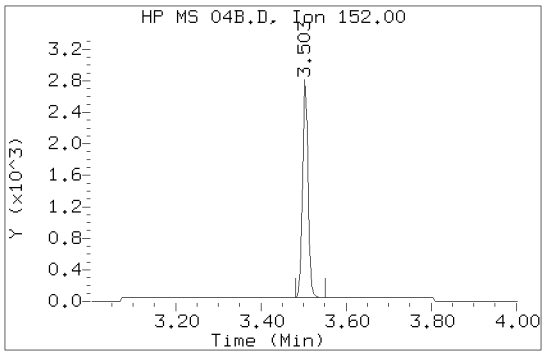
## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

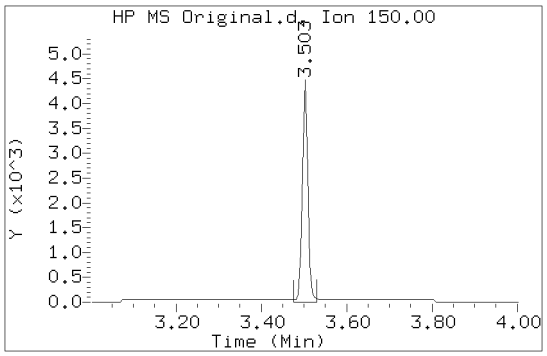
BEFORE
MASS
152
AREA
2678
HEIGHT
2814
03-Jul-2024
12:13
ALSHS
Server



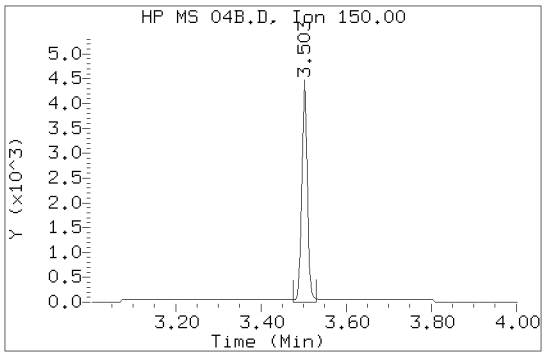

AFTER
MASS
152
AREA
2510
HEIGHT
2766
03-Jul-2024
14:10



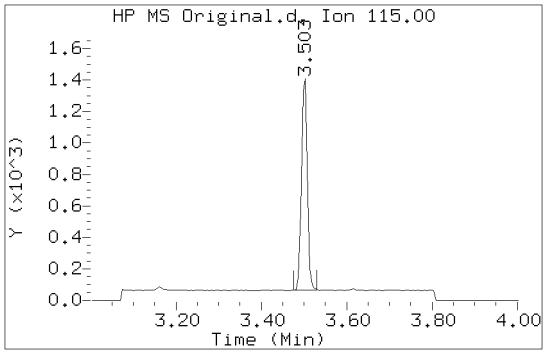

BEFORE
MASS
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AREA
4101
HEIGHT
4477
03-Jul-2024
12:13
ALSHS
Server



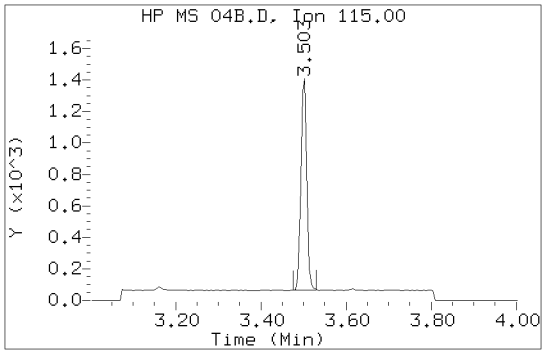

AFTER
MASS
150
AREA
4101
HEIGHT
4477
03-Jul-2024
14:10




BEFORE
MASS
115
AREA
1284
HEIGHT
1344
03-Jul-2024
12:13
ALSHS
Server



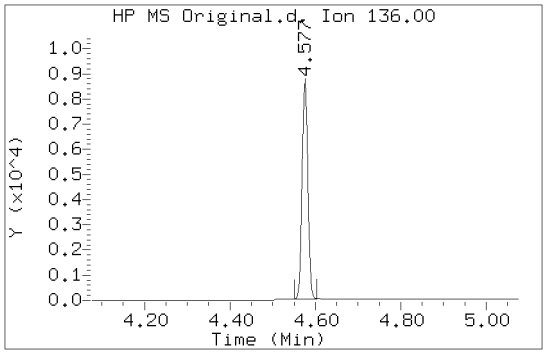

AFTER
MASS
115
AREA
1284
HEIGHT
1344
03-Jul-2024
14:10



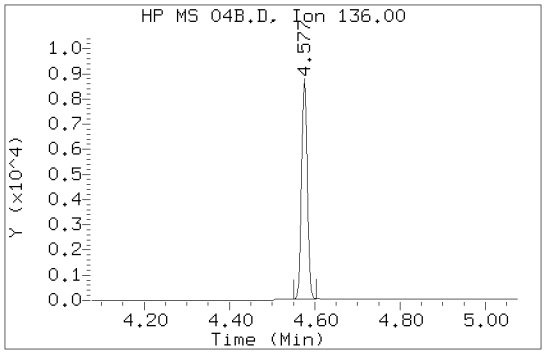

## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8148
HEIGHT
8757
03-Jul-2024
12:13
ALSHS
Server




AFTER
MASS
136
AREA
8148
HEIGHT
8757
03-Jul-2024
14:10



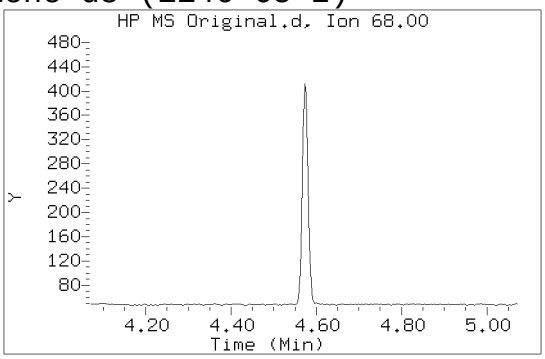
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\04B.D
Inj Date : 03-JUL-2024 11:59
InstruID : SV6.i
LabSampID : 14DX-0.08

## Naphthalene-d8 (1146-65-2)

Reason Code:

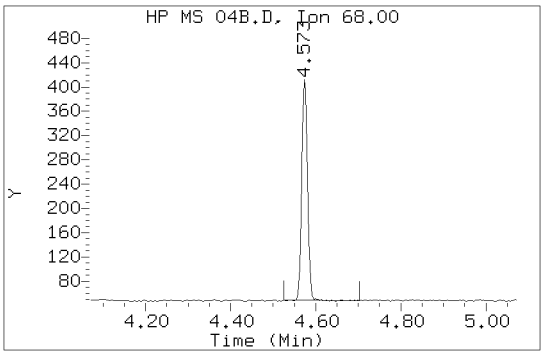
**BEFORE**

MASS
68
AREA
0
HEIGHT
0
03-Jul-2024
12:13
ALSHS
Server




**AFTER**

MASS
68
AREA
341
HEIGHT
363
03-Jul-2024
14:10

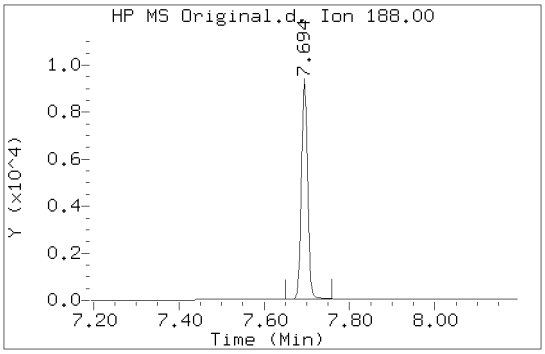



## Phenanthrene-d10 (1517-22-2)

Reason Code:

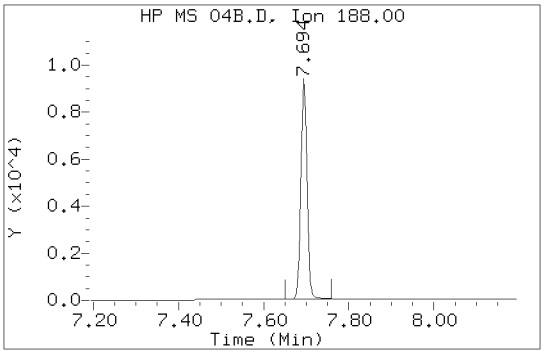
**BEFORE**

MASS
188
AREA
9658
HEIGHT
9379
03-Jul-2024
12:13
ALSHS
Server



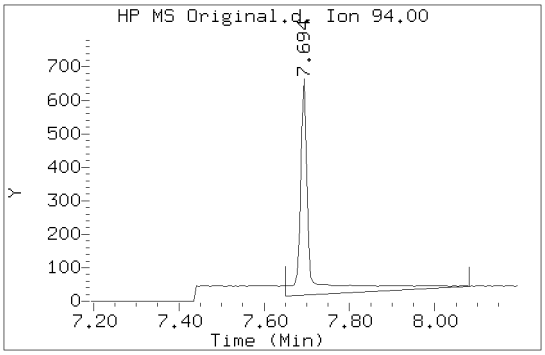

**AFTER**

MASS
188
AREA
9658
HEIGHT
9379
03-Jul-2024
14:10



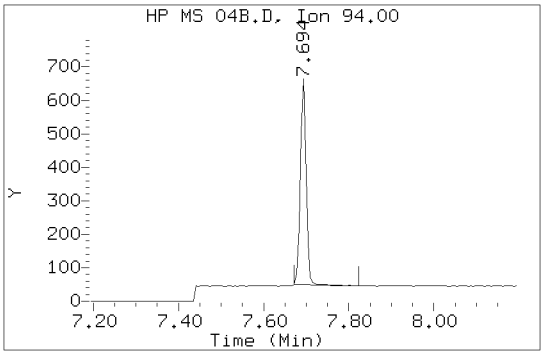

**BEFORE**

MASS
94
AREA
1025
HEIGHT
646
03-Jul-2024
12:13
ALSHS
Server



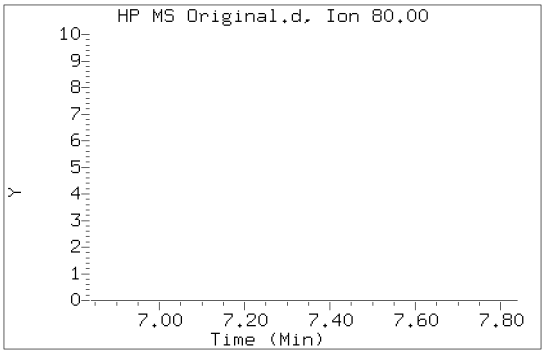

**AFTER**

MASS
94
AREA
589
HEIGHT
615
03-Jul-2024
14:10



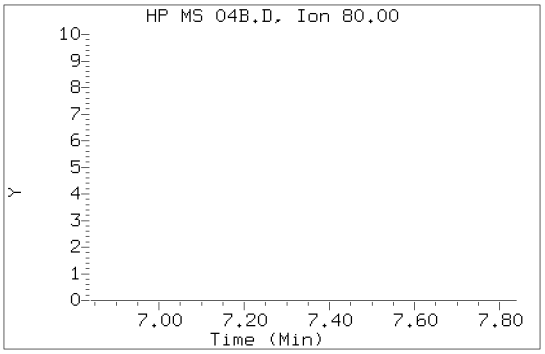

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
03-Jul-2024
12:13
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
03-Jul-2024
14:10



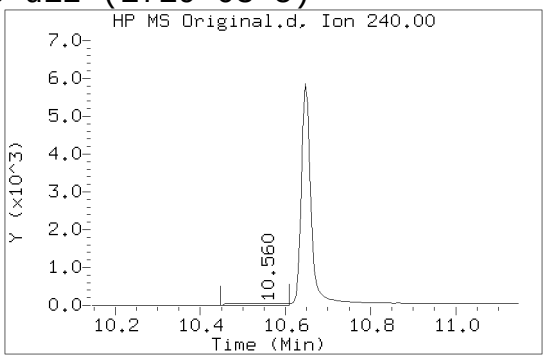
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\04B.D
Inj Date : 03-JUL-2024 11:59
InstruID : SV6.i
LabSampID : 14DX-0.08

## Chrysene-d12 (1719-03-5)

Reason Code:

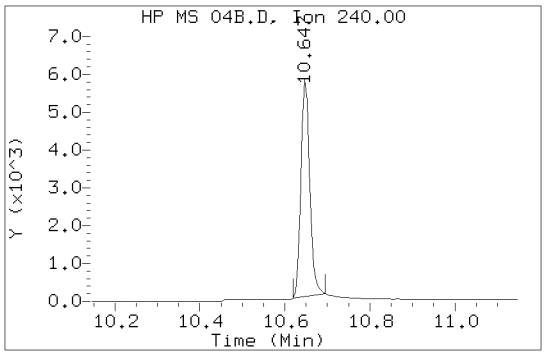
**BEFORE**

MASS
240
AREA
437
HEIGHT
55
03-Jul-2024
12:13
ALSHS
Server



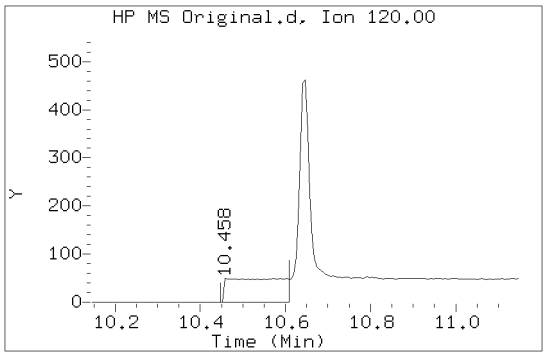

**AFTER**

MASS
240
AREA
8162
HEIGHT
5731
03-Jul-2024
14:10



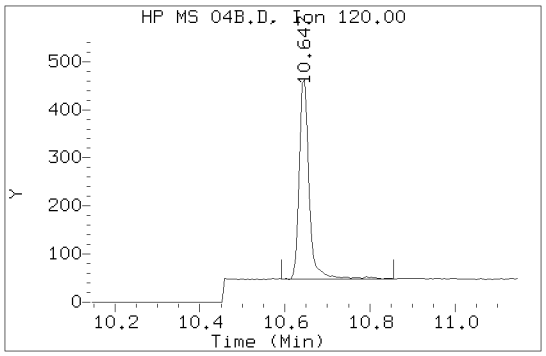

**BEFORE**

MASS
120
AREA
448
HEIGHT
49
03-Jul-2024
12:13
ALSHS
Server



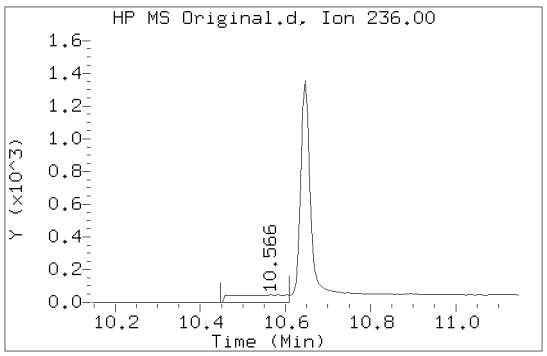

**AFTER**

MASS
120
AREA
673
HEIGHT
414
03-Jul-2024
14:10



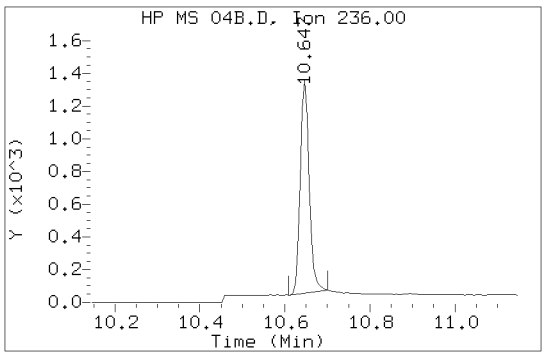

**BEFORE**

MASS
236
AREA
420
HEIGHT
46
03-Jul-2024
12:13
ALSHS
Server




**AFTER**

MASS
236
AREA
1877
HEIGHT
1297
03-Jul-2024
14:10

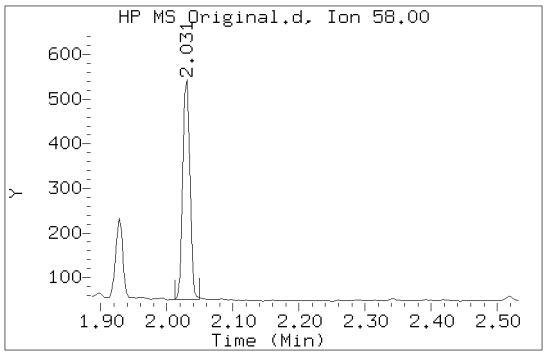



## 1,4-Dioxane ()

Reason Code:

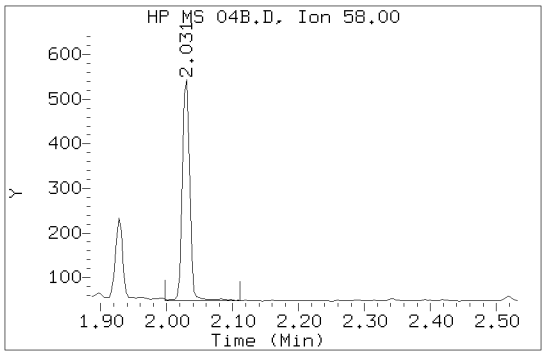
**BEFORE**

MASS
58
AREA
365
HEIGHT
492
03-Jul-2024
12:13
ALSHS
Server




**AFTER**

MASS
58
AREA
390
HEIGHT
496
03-Jul-2024
14:10

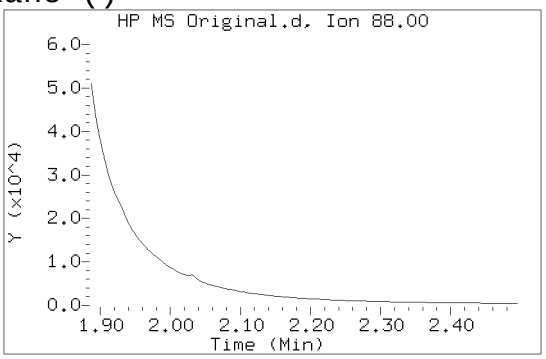


Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\04B.D
Inj Date : 03-JUL-2024 11:59
InstruID : SV6.i
LabSampID : 14DX-0.08

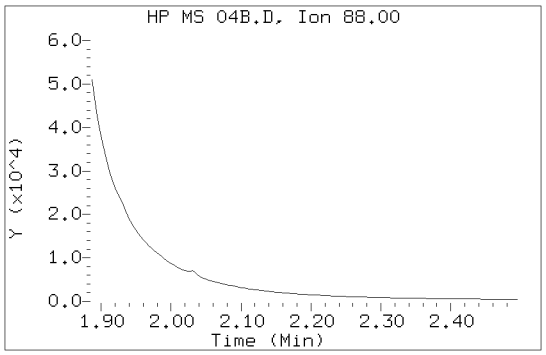
## 1,4-Dioxane ()

Reason Code:

BEFORE
MASS
88
AREA
0
HEIGHT
0
03-Jul-2024
12:13
ALSHS
Server



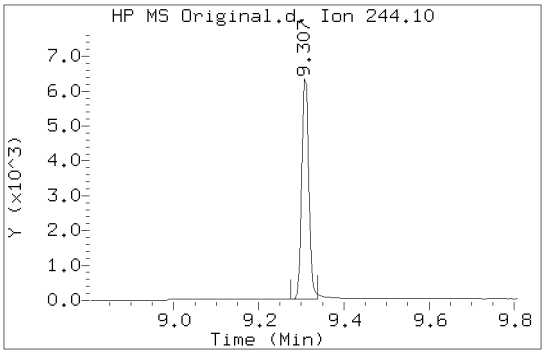

AFTER
MASS
88
AREA
0
HEIGHT
0
03-Jul-2024
14:10



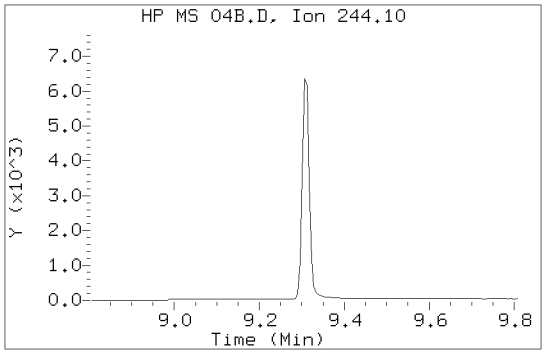

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

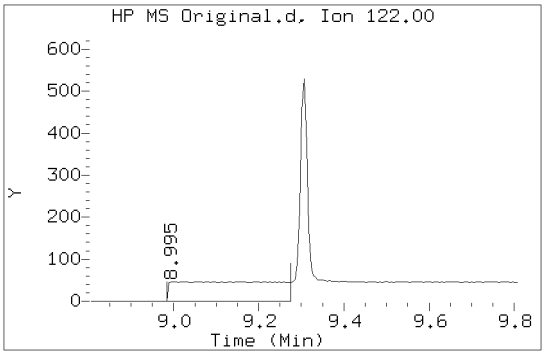
BEFORE
MASS
244.1
AREA
7196
HEIGHT
6314
03-Jul-2024
12:13
ALSHS
Server



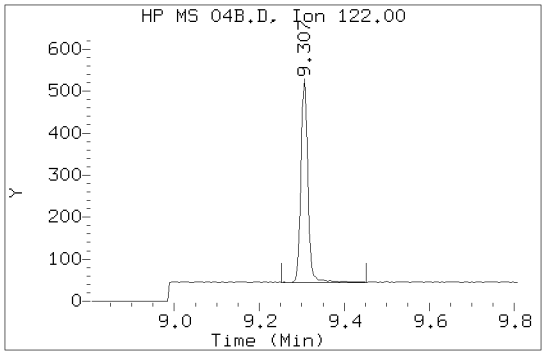

AFTER
MASS
244.1
AREA
10975
HEIGHT
6358
03-Jul-2024
14:10



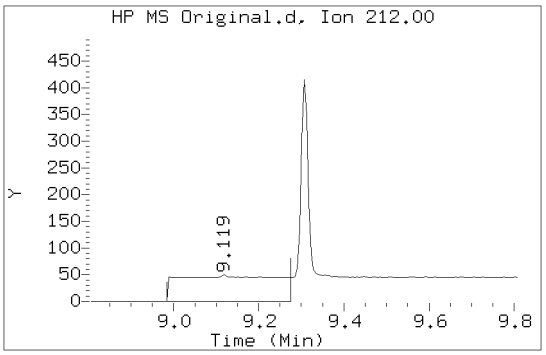

BEFORE
MASS
122
AREA
794
HEIGHT
46
03-Jul-2024
12:13
ALSHS
Server



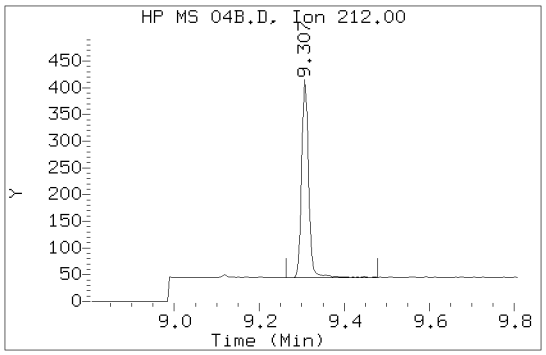

AFTER
MASS
122
AREA
544
HEIGHT
484
03-Jul-2024
14:10




BEFORE
MASS
212
AREA
790
HEIGHT
50
03-Jul-2024
12:13
ALSHS
Server




AFTER
MASS
212
AREA
415
HEIGHT
370
03-Jul-2024
14:10



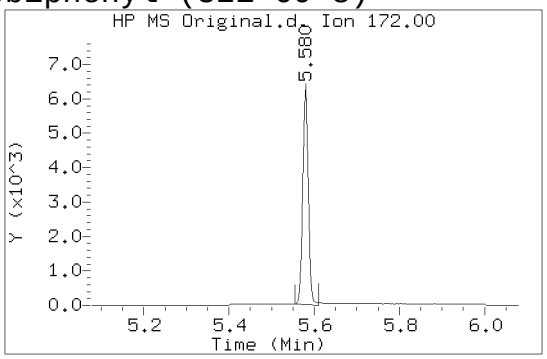
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\04B.D
Inj Date : 03-JUL-2024 11:59
InstruID : SV6.i
LabSampID : 14DX-0.08

2-Fluorobiphenyl (321-60-8)

Reason Code:

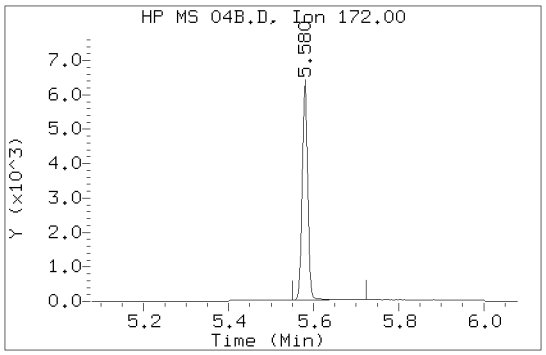
BEFORE

MASS
172
AREA
5869
HEIGHT
6416
03-Jul-2024
12:13
ALSHS
Server



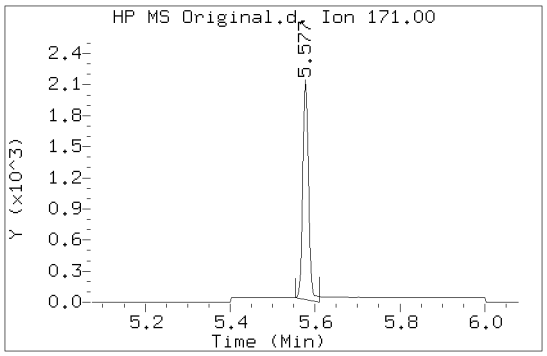

AFTER

MASS
172
AREA
5832
HEIGHT
6395
03-Jul-2024
14:10



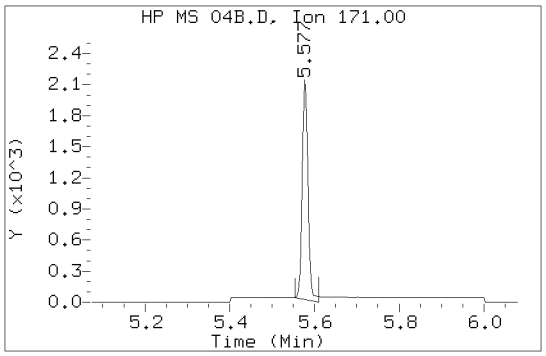

BEFORE

MASS
171
AREA
2000
HEIGHT
2117
03-Jul-2024
12:13
ALSHS
Server




AFTER

MASS
171
AREA
2000
HEIGHT
2117
03-Jul-2024
14:10



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\05.D Page 1
Report Date: 03-Jul-2024 16:09

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\05.D
Lab Smp Id: MBLK-213966
Inj Date : 03-JUL-2024 12:40
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-213966
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240703.b\DXSIM.m
Meth Date : 03-Jul-2024 12:28 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 3.508 | 3.503 | (1.000) | 4392 | 0.10000 | (aQ) |
| * 45 Naphthalene-d8 | 136 | 4.576 | 4.576 | (1.000) | 13879 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.937 | 3.937 | (0.860) | 2261 | 0.05427 | 0.05426 |
| * 86 Acenaphthene-d10 | 164 | 6.245 | 6.239 | (1.000) | 8412 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 5.580 | 5.580 | (0.894) | 7369 | 0.05731 | 0.05730 |
| * 126 Phenanthrene-d10 | 188 | 7.698 | 7.693 | (1.000) | 16293 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 10.657 | 10.646 | (1.000) | 15037 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 9.317 | 9.306 | (0.874) | 13867 | 0.04527 | 0.04527(M) |
| * 198 Perylene-d12 | 264 | 12.823 | 12.818 | (1.000) | 14725 | 0.10000 | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\05.D



Date : 03-JUL-2024 12:40

Client ID:

Instrument: SV6.i

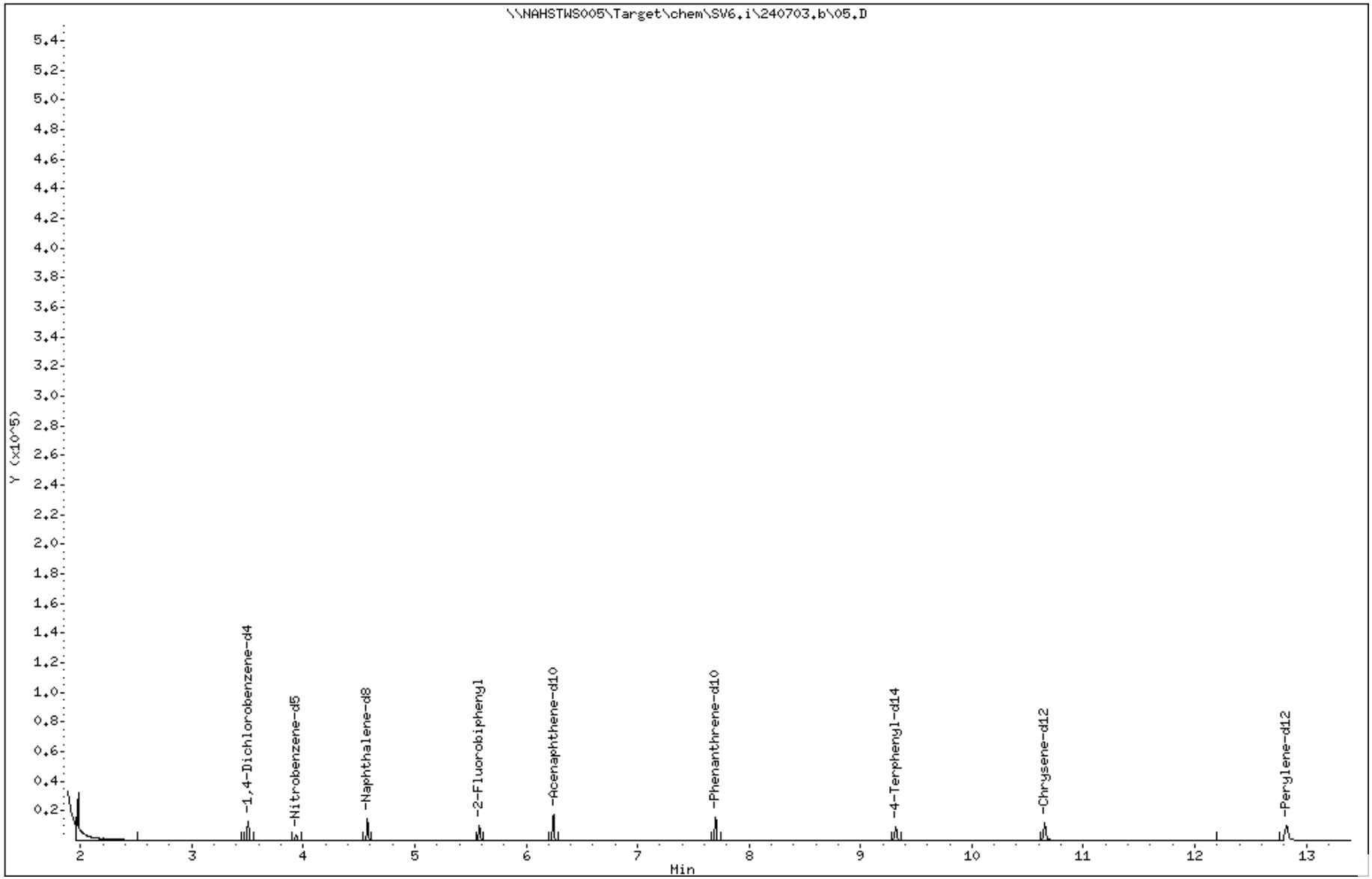
Sample Info: MBLK-213966

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



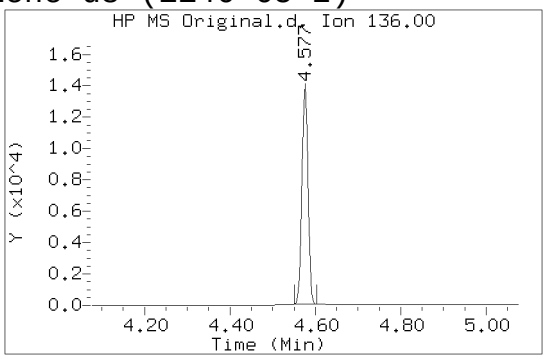
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\05.D
Inj Date : 03-JUL-2024 12:40
InstruID : SV6.i
LabSampID : MBLK-213966

## Naphthalene-d8 (1146-65-2)

Reason Code:

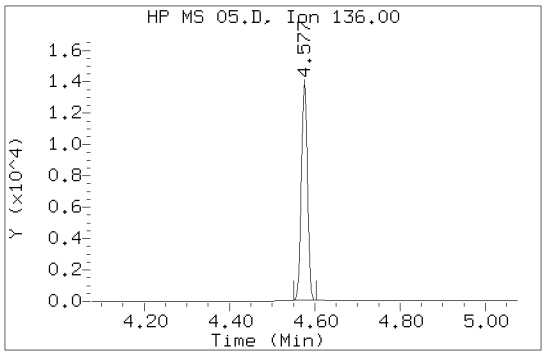
**BEFORE**

MASS
136
AREA
13879
HEIGHT
14065
03-Jul-2024
12:56
ALSHS
Server



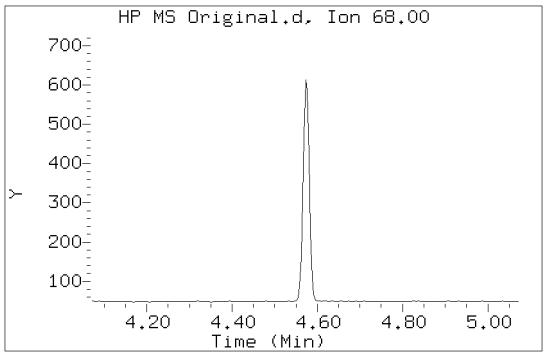

**AFTER**

MASS
136
AREA
13879
HEIGHT
14065
03-Jul-2024
16:09



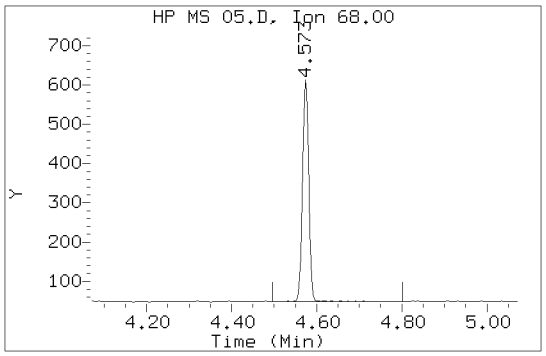

**BEFORE**

MASS
68
AREA
0
HEIGHT
0
03-Jul-2024
12:56
ALSHS
Server




**AFTER**

MASS
68
AREA
584
HEIGHT
564
03-Jul-2024
16:09

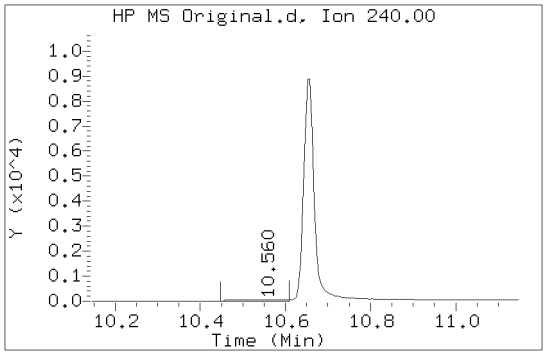



## Chrysene-d12 (1719-03-5)

Reason Code:

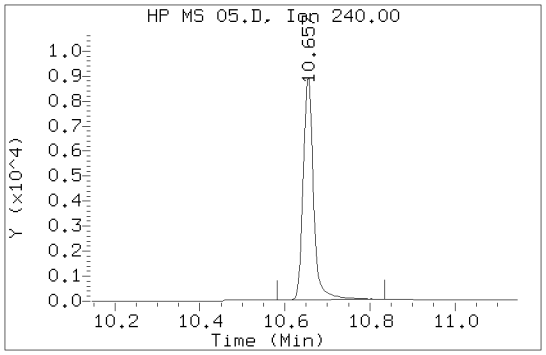
**BEFORE**

MASS
240
AREA
429
HEIGHT
48
03-Jul-2024
12:56
ALSHS
Server



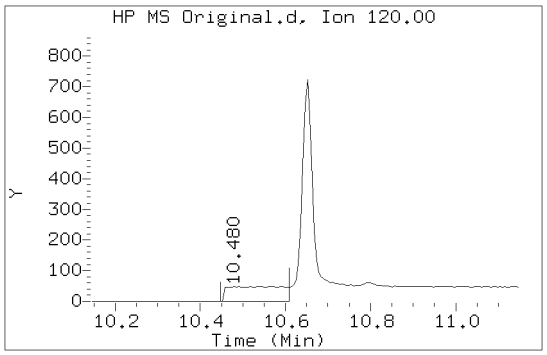

**AFTER**

MASS
240
AREA
15037
HEIGHT
8828
03-Jul-2024
16:09



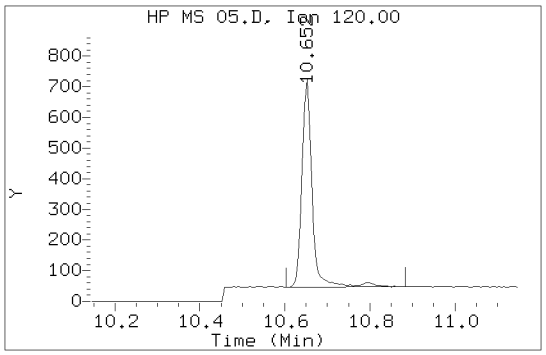

**BEFORE**

MASS
120
AREA
443
HEIGHT
48
03-Jul-2024
12:56
ALSHS
Server




**AFTER**

MASS
120
AREA
1128
HEIGHT
675
03-Jul-2024
16:09



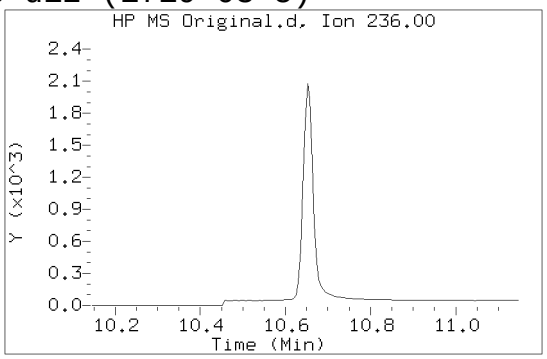
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\05.D
Inj Date : 03-JUL-2024 12:40
InstruID : SV6.i
LabSampID : MBLK-213966

## Chrysene-d12 (1719-03-5)

Reason Code:

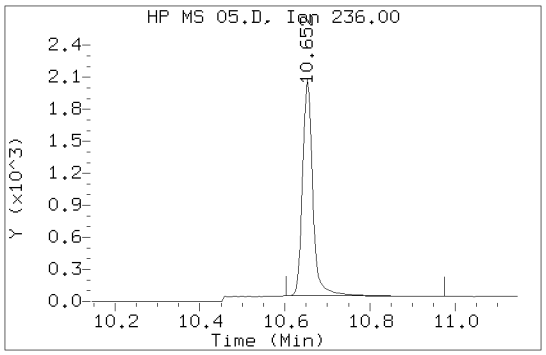
**BEFORE**

MASS
236
AREA
0
HEIGHT
0
03-Jul-2024
12:56
ALSHS
Server




**AFTER**

MASS
236
AREA
3426
HEIGHT
2025
03-Jul-2024
16:09

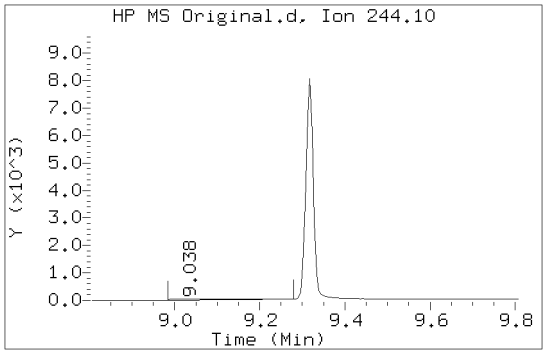



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

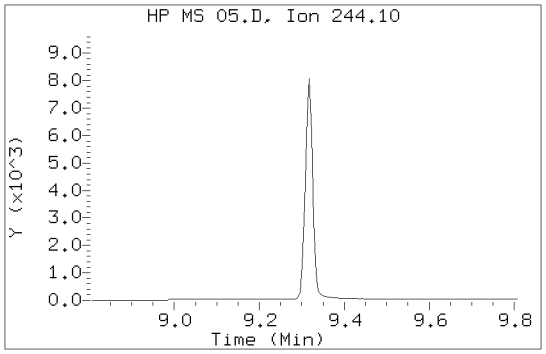
**BEFORE**

MASS
244.1
AREA
377
HEIGHT
36
03-Jul-2024
12:56
ALSHS
Server



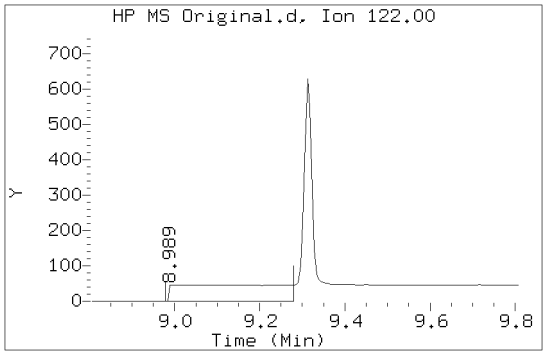

**AFTER**

MASS
244.1
AREA
13867
HEIGHT
8074
03-Jul-2024
16:09



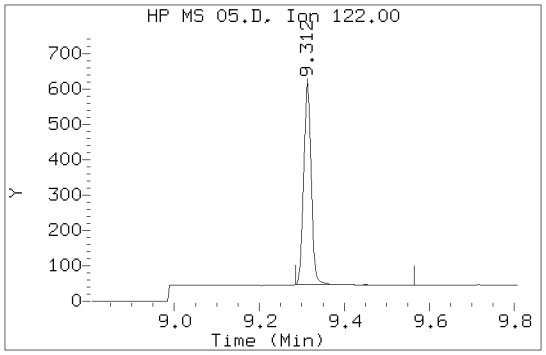

**BEFORE**

MASS
122
AREA
807
HEIGHT
46
03-Jul-2024
12:56
ALSHS
Server



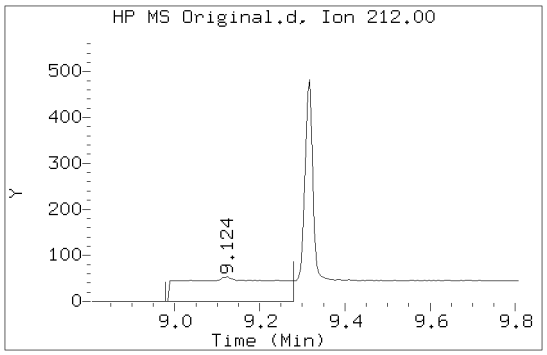

**AFTER**

MASS
122
AREA
693
HEIGHT
581
03-Jul-2024
16:09



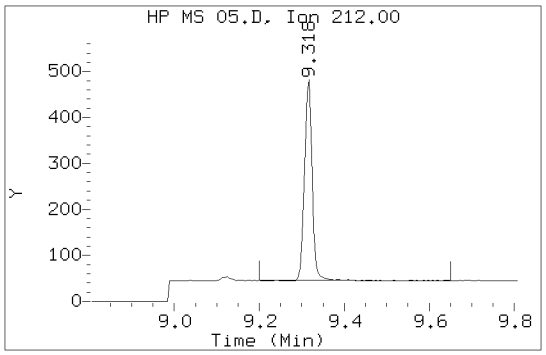

**BEFORE**

MASS
212
AREA
813
HEIGHT
54
03-Jul-2024
12:56
ALSHS
Server




**AFTER**

MASS
212
AREA
542
HEIGHT
436
03-Jul-2024
16:09



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\06.D Page 1
Report Date: 03-Jul-2024 16:09

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\06.D
Lab Smp Id: LCS-213966
Inj Date : 03-JUL-2024 12:58
Operator : LG Inst ID: SV6.i
Smp Info : LCS-213966
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240703.b\DXSIM.m
Meth Date : 03-Jul-2024 12:28 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 3.503 | 3.503 | (1.000) | 3008 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 4.576 | 4.576 | (1.000) | 9707 | 0.10000 | |
| $ 33 Nitrobenzene-d5 | 82 | 3.937 | 3.937 | (0.860) | 1629 | 0.05590 | 0.05590 |
| * 86 Acenaphthene-d10 | 164 | 6.239 | 6.239 | (1.000) | 5920 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 5.580 | 5.580 | (0.894) | 5388 | 0.05954 | 0.05954 |
| * 126 Phenanthrene-d10 | 188 | 7.693 | 7.693 | (1.000) | 11519 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 10.646 | 10.646 | (1.000) | 10808 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 9.312 | 9.306 | (0.875) | 11430 | 0.05191 | 0.05191(M) |
| * 198 Perylene-d12 | 264 | 12.818 | 12.818 | (1.000) | 11024 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 2.038 | 2.030 | (0.582) | 336 | 0.05215 | 0.05215(M) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\06.D



Date : 03-JUL-2024 12:58

Client ID:

Instrument: SV6.i

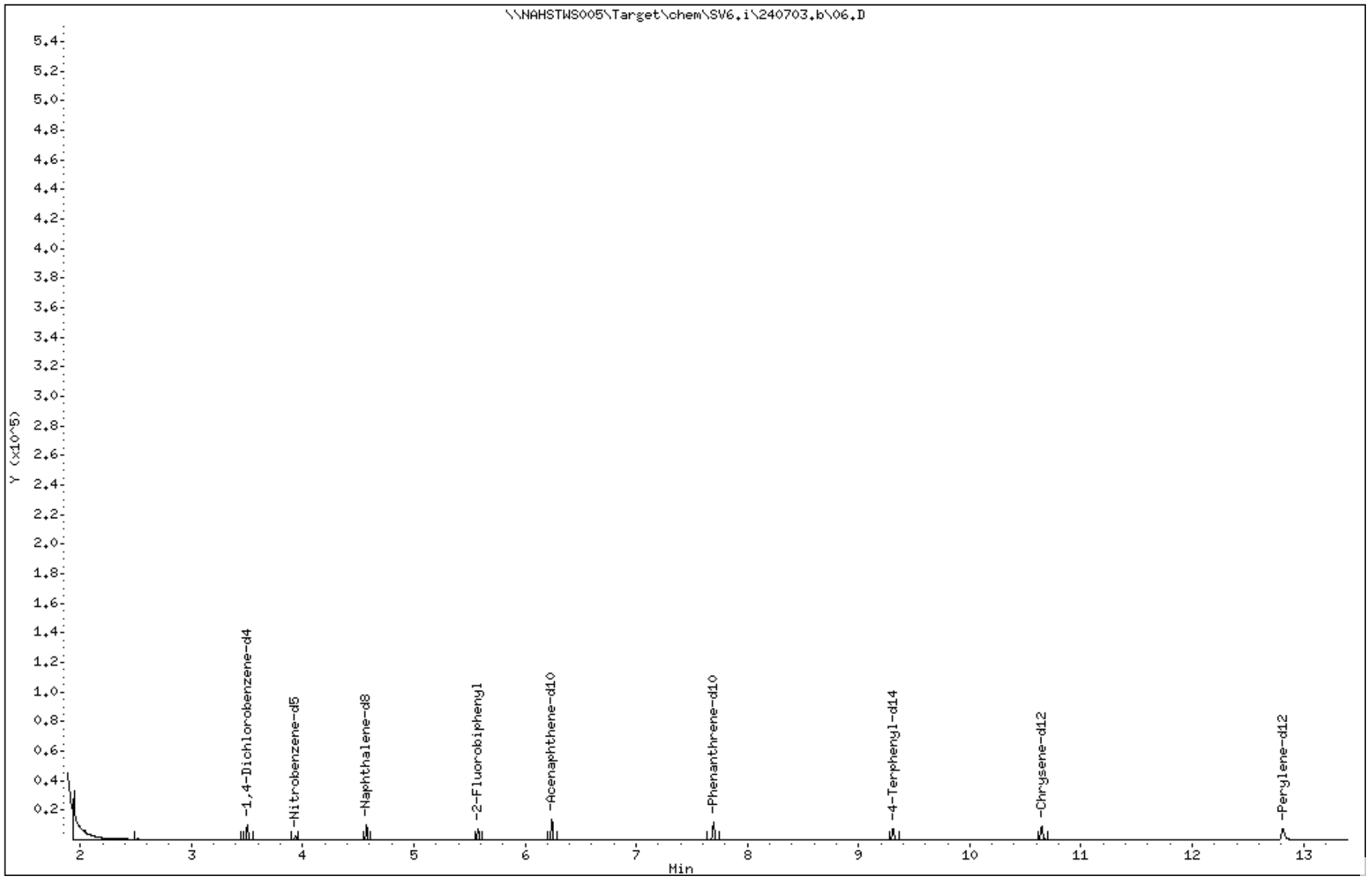
Sample Info: LCS-213966

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\06.D



Date : 03-JUL-2024 12:58

Client ID:

Instrument: SV6.i

Sample Info: LCS-213966

Purge Volume: 1000.0

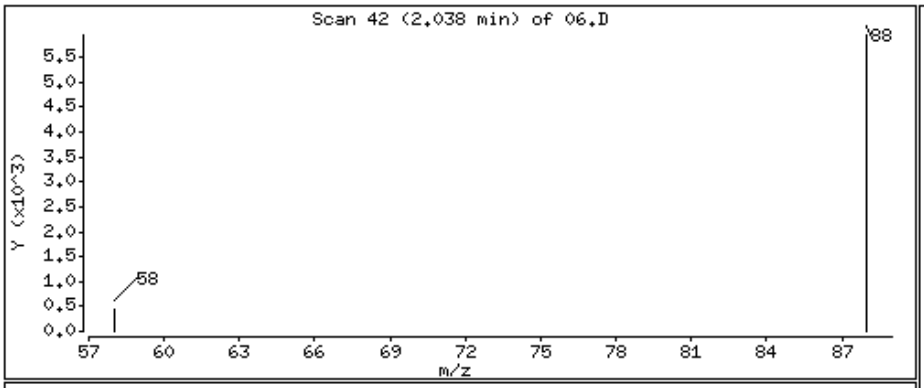
Operator: LG

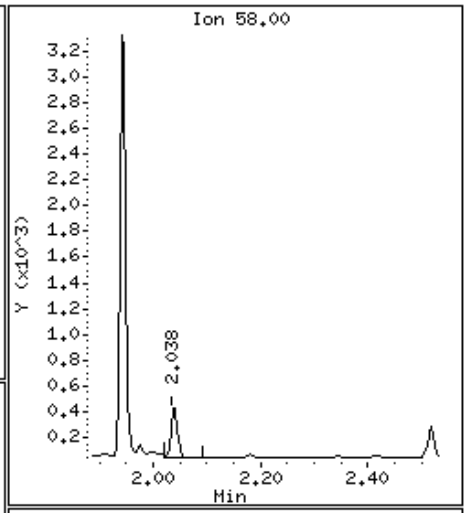
Column phase: RTX-5SIL MS

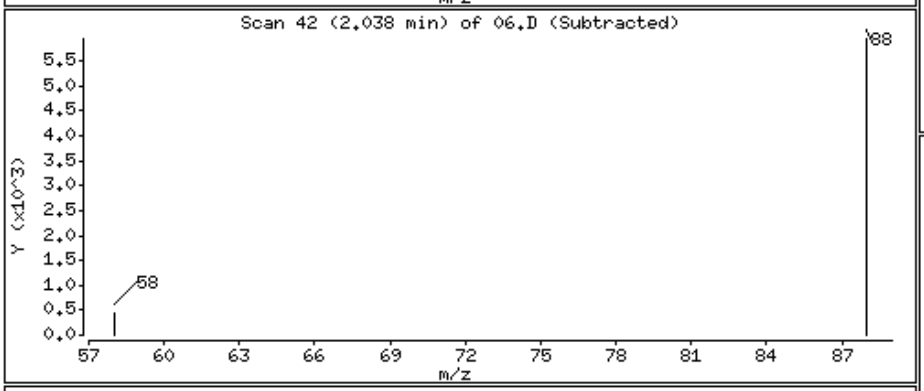
Column diameter: 0.28

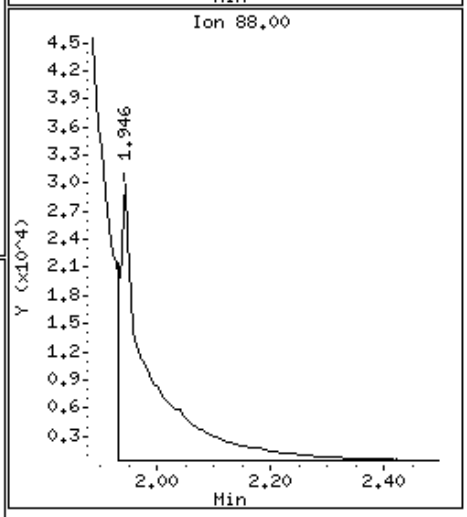
1 1,4-Dioxane

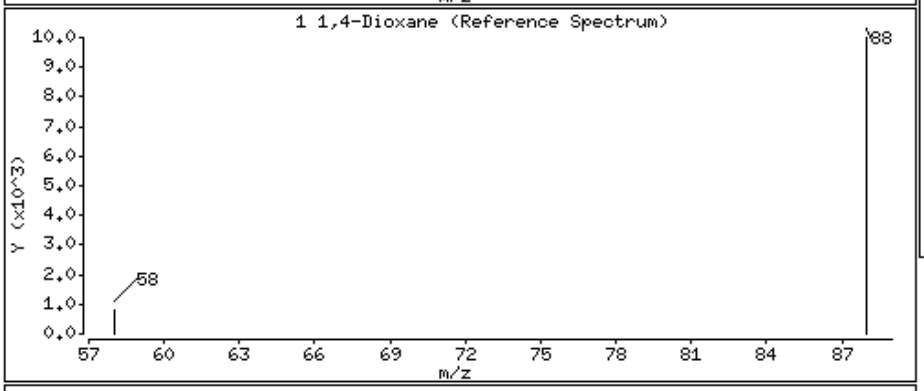
Concentration: 0.05215 ug/L

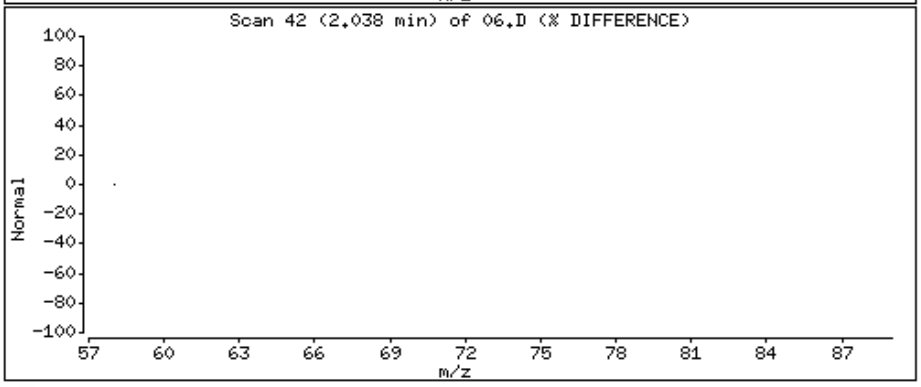


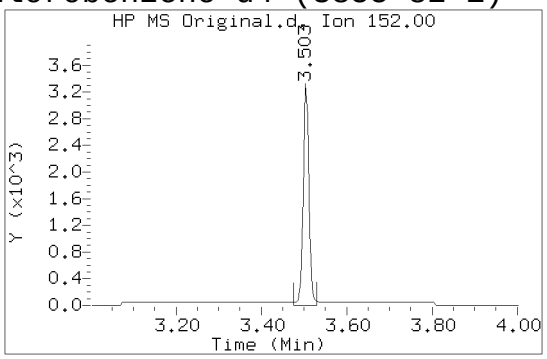



Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\06.D
Inj Date : 03-JUL-2024 12:58
InstruID : SV6.i
LabSampID : LCS-213966

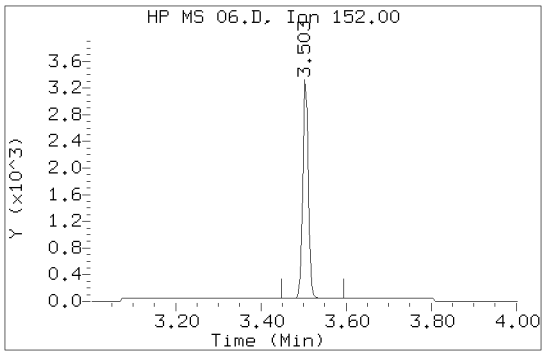
## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

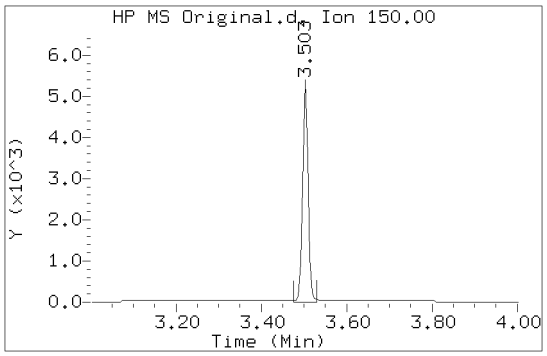
BEFORE
MASS
152
AREA
3167
HEIGHT
3325
03-Jul-2024
13:12
ALSHS
Server



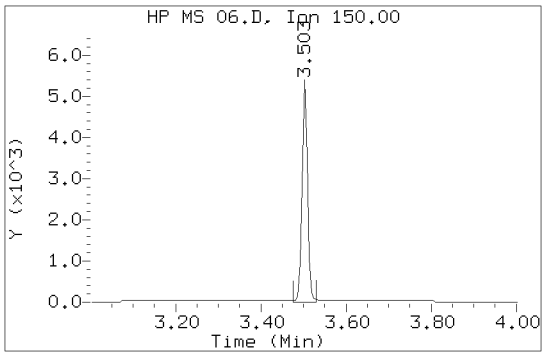

AFTER
MASS
152
AREA
3008
HEIGHT
3279
03-Jul-2024
16:09



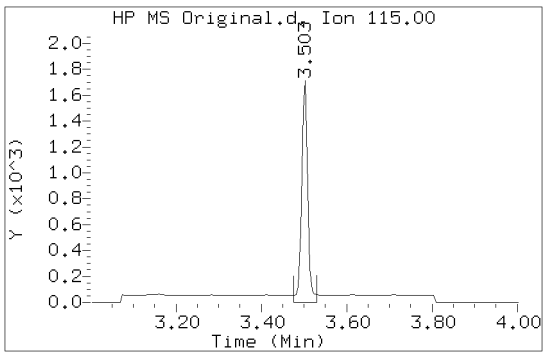

BEFORE
MASS
150
AREA
4858
HEIGHT
5400
03-Jul-2024
13:12
ALSHS
Server



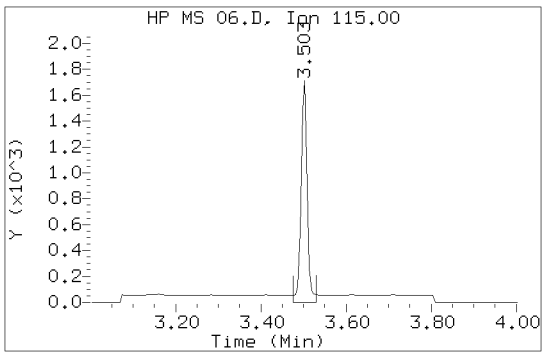

AFTER
MASS
150
AREA
4858
HEIGHT
5400
03-Jul-2024
16:09




BEFORE
MASS
115
AREA
1721
HEIGHT
1712
03-Jul-2024
13:12
ALSHS
Server



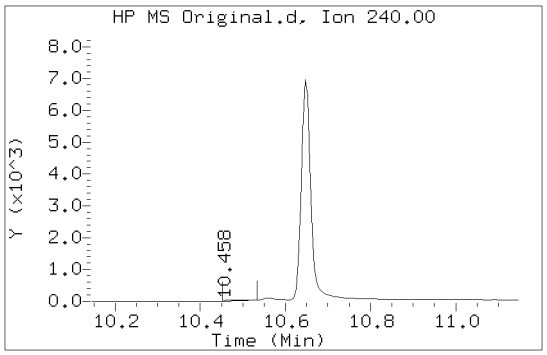

AFTER
MASS
115
AREA
1721
HEIGHT
1712
03-Jul-2024
16:09



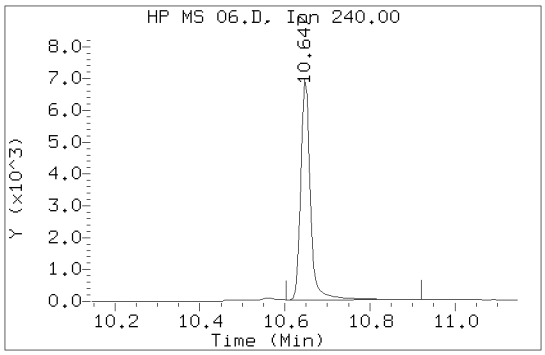

## Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
101
HEIGHT
42
03-Jul-2024
13:12
ALSHS
Server




AFTER
MASS
240
AREA
10808
HEIGHT
6912
03-Jul-2024
16:09

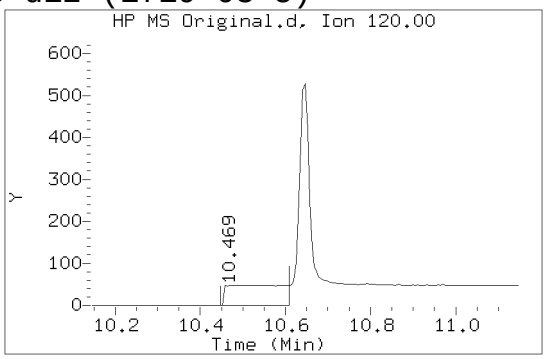


Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\06.D
Inj Date : 03-JUL-2024 12:58
InstruID : SV6.i
LabSampID : LCS-213966

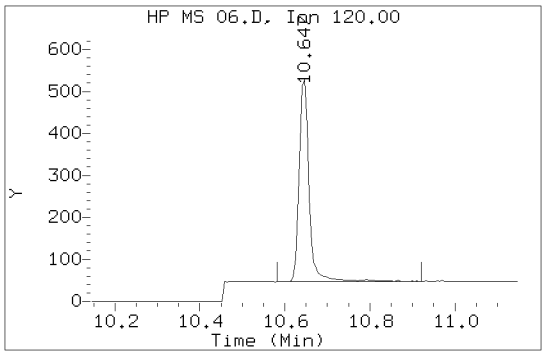
## Chrysene-d12 (1719-03-5)

Reason Code:

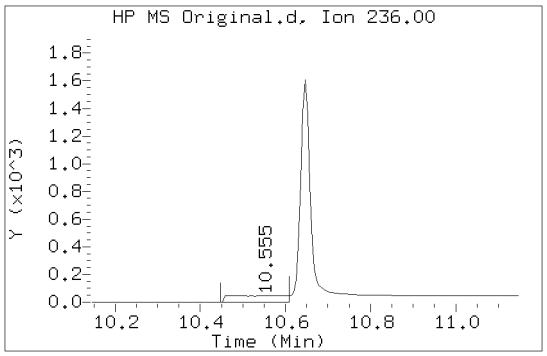
BEFORE
MASS
120
AREA
441
HEIGHT
48
03-Jul-2024
13:12
ALSHS
Server



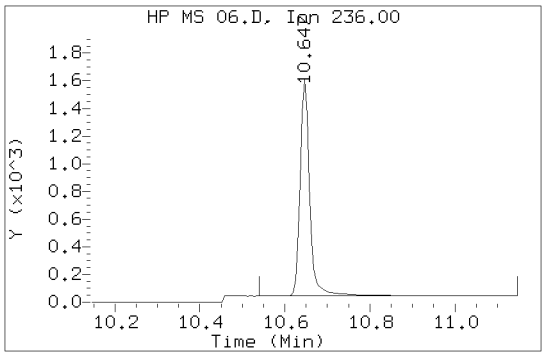

AFTER
MASS
120
AREA
777
HEIGHT
480
03-Jul-2024
16:09




BEFORE
MASS
236
AREA
423
HEIGHT
47
03-Jul-2024
13:12
ALSHS
Server



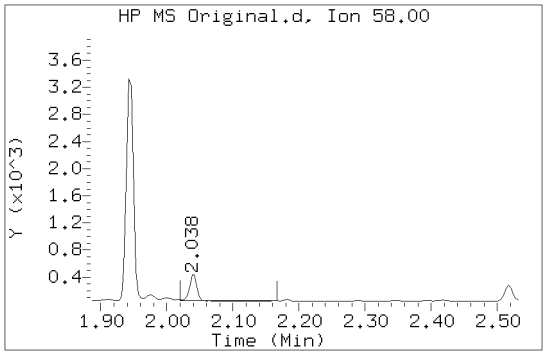

AFTER
MASS
236
AREA
2457
HEIGHT
1560
03-Jul-2024
16:09



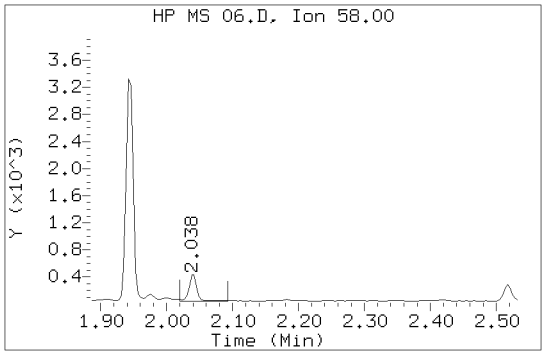

## 1,4-Dioxane ()

Reason Code:

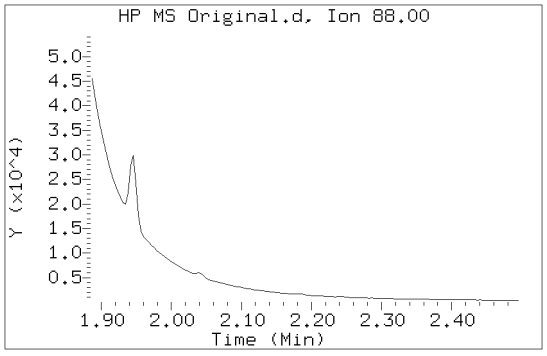
BEFORE
MASS
58
AREA
285
HEIGHT
383
03-Jul-2024
13:12
ALSHS
Server



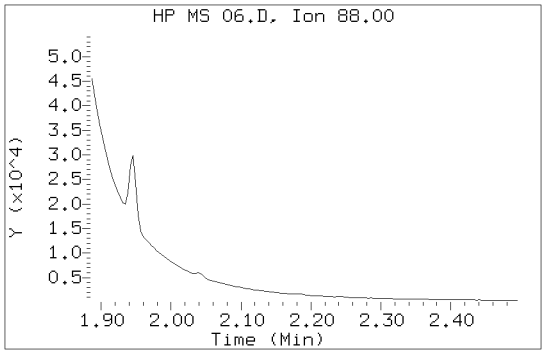

AFTER
MASS
58
AREA
336
HEIGHT
391
03-Jul-2024
16:09




BEFORE
MASS
88
AREA
107900
HEIGHT
29459
03-Jul-2024
13:12
ALSHS
Server




AFTER
MASS
88
AREA
107900
HEIGHT
29459
03-Jul-2024
16:09



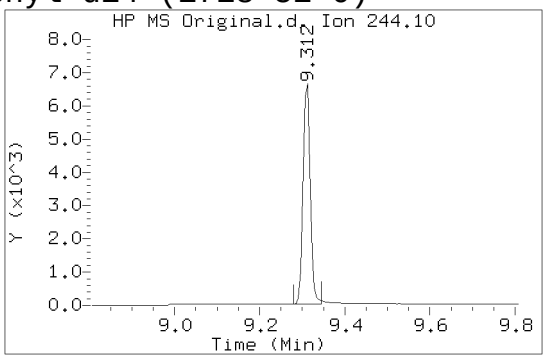
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\06.D
Inj Date : 03-JUL-2024 12:58
InstruID : SV6.i
LabSampID : LCS-213966

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

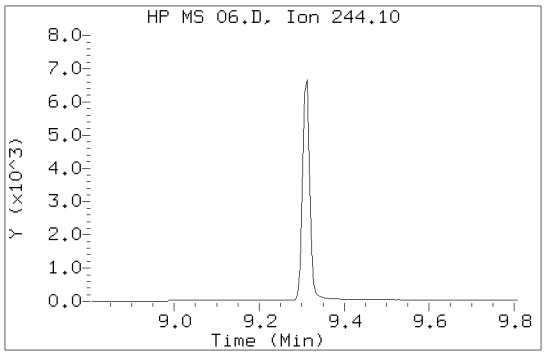
### BEFORE

MASS
244.1
AREA
7693
HEIGHT
6624
03-Jul-2024
13:12
ALSHS
Server



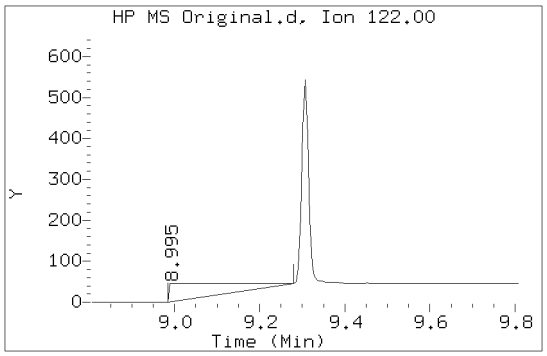

### AFTER

MASS
244.1
AREA
11430
HEIGHT
6669
03-Jul-2024
16:09



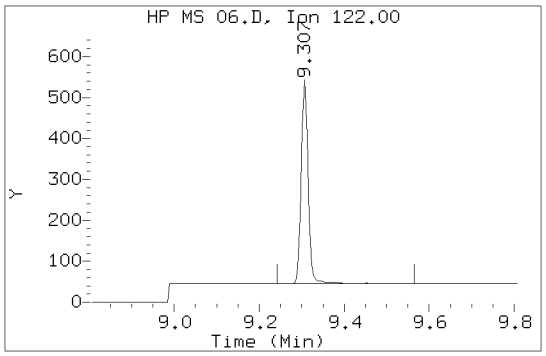

### BEFORE

MASS
122
AREA
389
HEIGHT
44
03-Jul-2024
13:12
ALSHS
Server



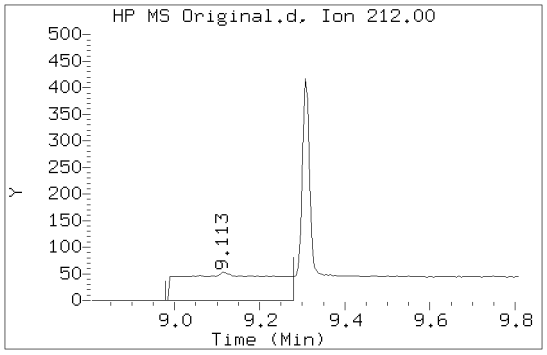

### AFTER

MASS
122
AREA
555
HEIGHT
497
03-Jul-2024
16:09



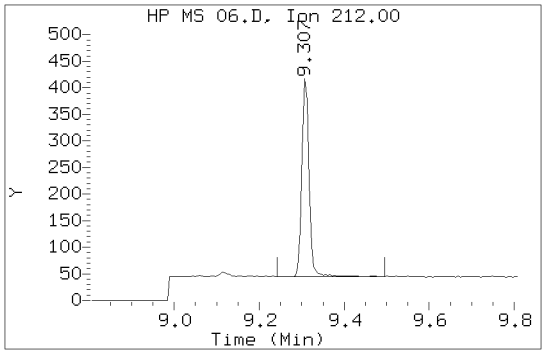

### BEFORE

MASS
212
AREA
814
HEIGHT
53
03-Jul-2024
13:12
ALSHS
Server




### AFTER

MASS
212
AREA
432
HEIGHT
372
03-Jul-2024
16:09



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\07.D Page 1
Report Date: 03-Jul-2024 16:10

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\07.D
Lab Smp Id: LCSD-213966
Inj Date : 03-JUL-2024 13:15
Operator : LG Inst ID: SV6.i
Smp Info : LCSD-213966
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240703.b\DXSIM.m
Meth Date : 03-Jul-2024 12:28 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) | |
|---|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 3.502 | 3.503 | (1.000) | 2660 | 0.10000 | | (aQ) |
| * 45 Naphthalene-d8 | 136 | 4.576 | 4.576 | (1.000) | 8003 | 0.10000 | | |
| $ 33 Nitrobenzene-d5 | 82 | 3.937 | 3.937 | (0.860) | 1355 | 0.05640 | 0.05640 | |
| * 86 Acenaphthene-d10 | 164 | 6.244 | 6.239 | (1.000) | 4893 | 0.10000 | | |
| $ 69 2-Fluorobiphenyl | 172 | 5.580 | 5.580 | (0.894) | 4543 | 0.06074 | 0.06074 | |
| * 126 Phenanthrene-d10 | 188 | 7.693 | 7.693 | (1.000) | 9556 | 0.10000 | | |
| * 182 Chrysene-d12 | 240 | 10.646 | 10.646 | (1.000) | 8980 | 0.10000 | | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 9.312 | 9.306 | (0.875) | 9342 | 0.05107 | 0.05107 | (M) |
| * 198 Perylene-d12 | 264 | 12.817 | 12.818 | (1.000) | 9194 | 0.10000 | | |
| 1 1,4-Dioxane | 58 | 2.015 | 2.030 | (0.575) | 289 | 0.05072 | 0.05072 | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\07.D



Date : 03-JUL-2024 13:15

Client ID:

Instrument: SV6.i

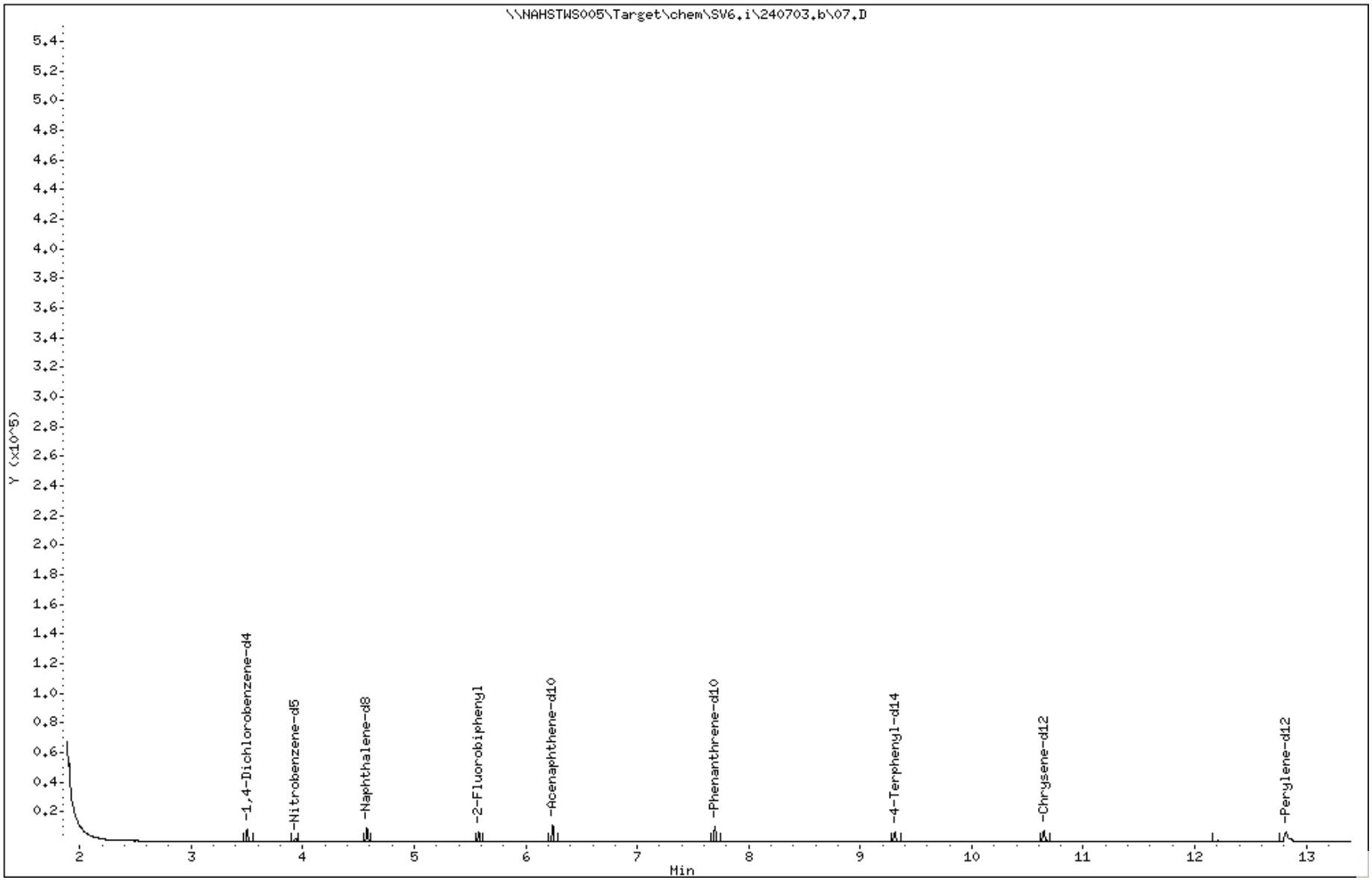
Sample Info: LCSD-213966

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\07.D Page 2

Date : 03-JUL-2024 13:15

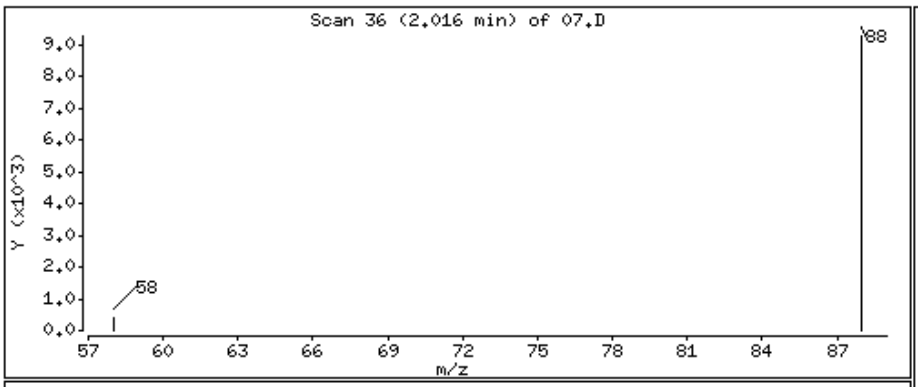
Client ID: Instrument: SV6.i

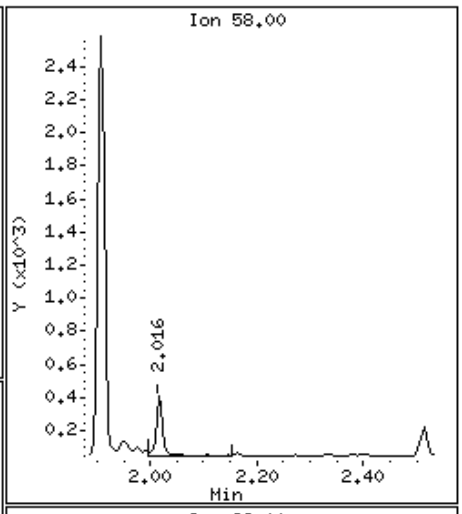
Sample Info: LCSD-213966

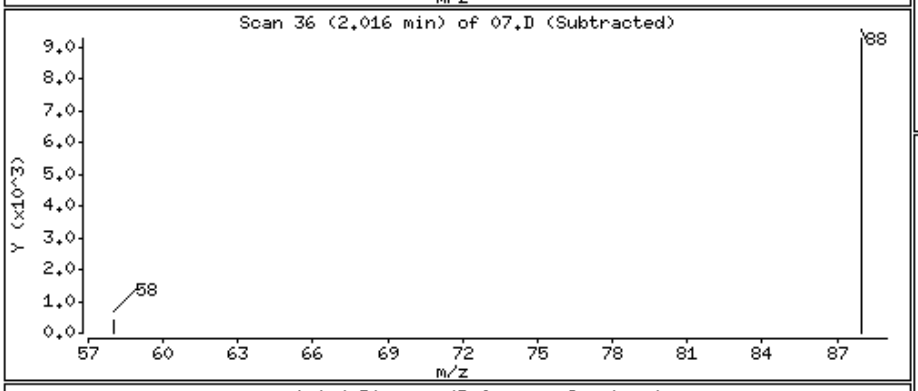
Purge Volume: 1000.0 Operator: LG

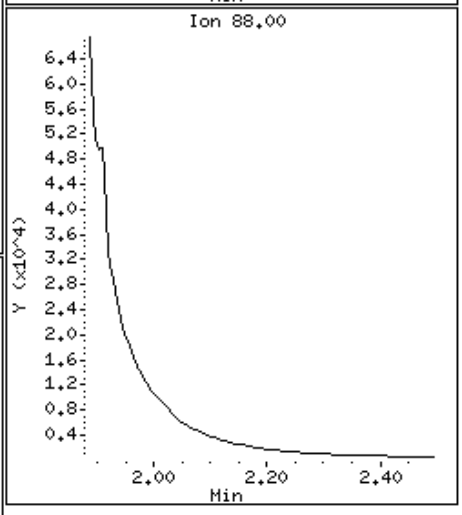
Column phase: RTX-5SIL MS Column diameter: 0.28

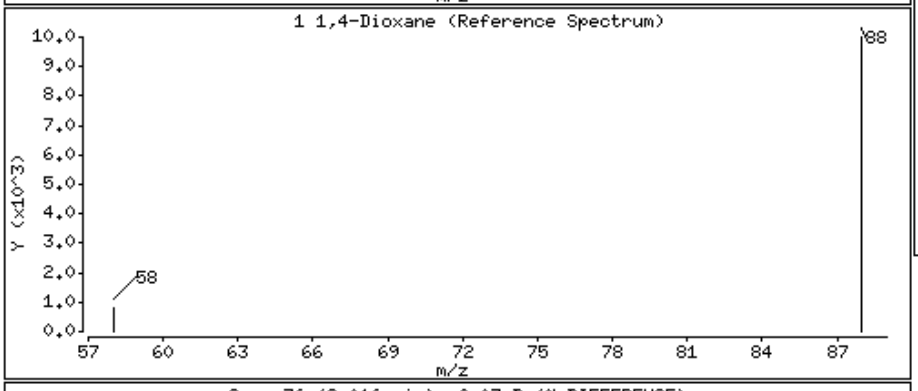
1 1,4-Dioxane Concentration: 0.05072 ug/L

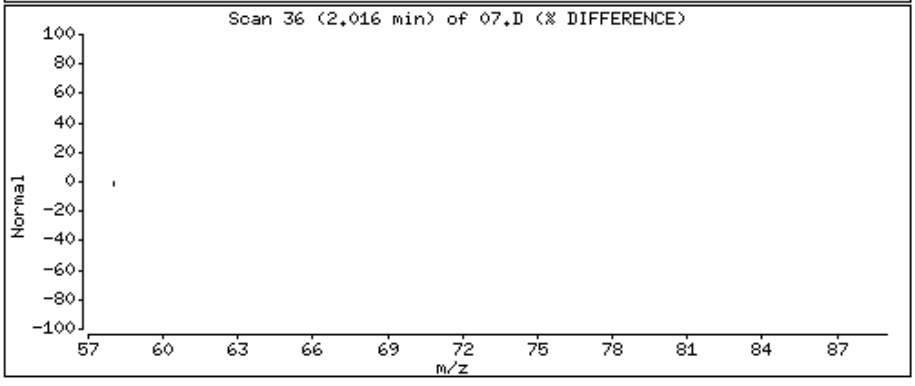


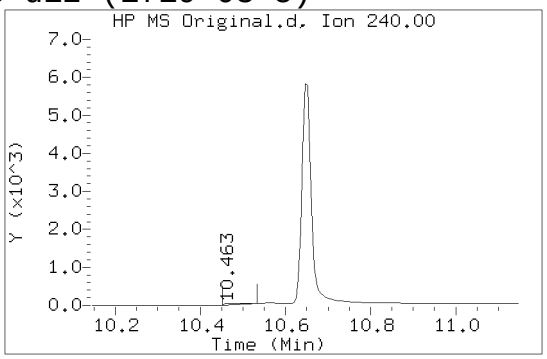
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\07.D
Inj Date : 03-JUL-2024 13:15
InstruID : SV6.i
LabSampID : LCSD-213966

## Chrysene-d12 (1719-03-5)

Reason Code:

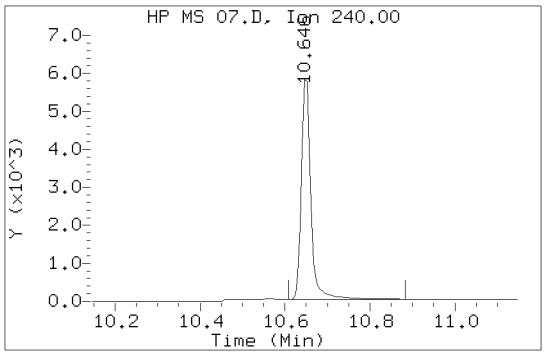
**BEFORE**

MASS
240
AREA
101
HEIGHT
39
03-Jul-2024
13:31
ALSHS
Server



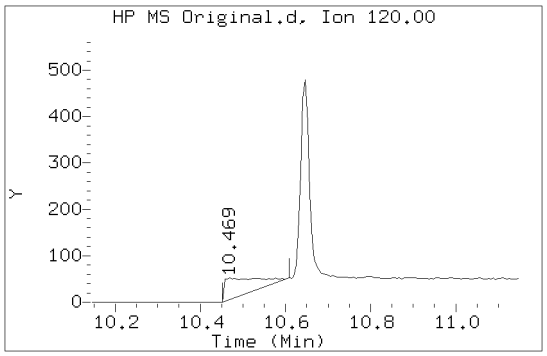

**AFTER**

MASS
240
AREA
8980
HEIGHT
5784
03-Jul-2024
16:10



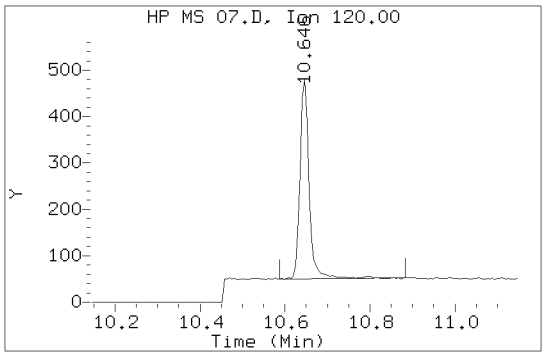

**BEFORE**

MASS
120
AREA
219
HEIGHT
46
03-Jul-2024
13:31
ALSHS
Server



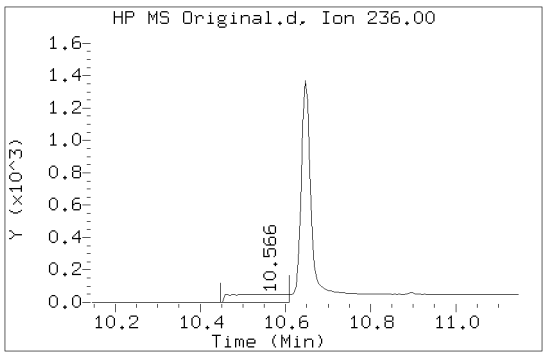

**AFTER**

MASS
120
AREA
626
HEIGHT
428
03-Jul-2024
16:10



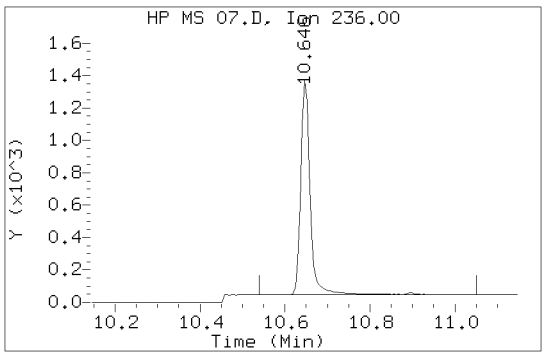

**BEFORE**

MASS
236
AREA
433
HEIGHT
48
03-Jul-2024
13:31
ALSHS
Server




**AFTER**

MASS
236
AREA
2058
HEIGHT
1322
03-Jul-2024
16:10

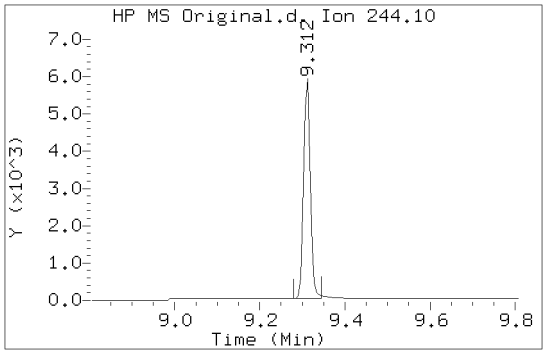



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

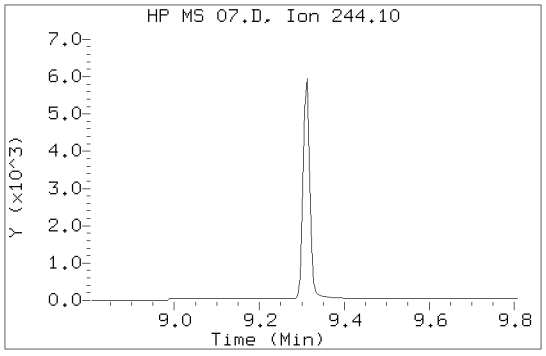
**BEFORE**

MASS
244.1
AREA
6417
HEIGHT
5902
03-Jul-2024
13:31
ALSHS
Server




**AFTER**

MASS
244.1
AREA
9342
HEIGHT
5941
03-Jul-2024
16:10

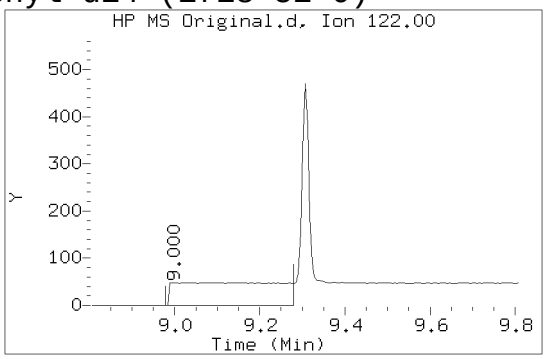


Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\07.D
Inj Date : 03-JUL-2024 13:15
InstruID : SV6.i
LabSampID : LCSD-213966

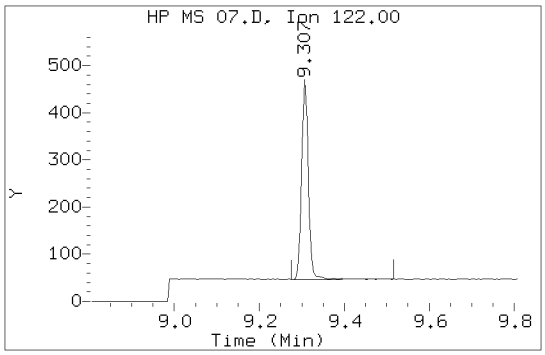
4-Terphenyl-d14 (1718-51-0)

Reason Code:

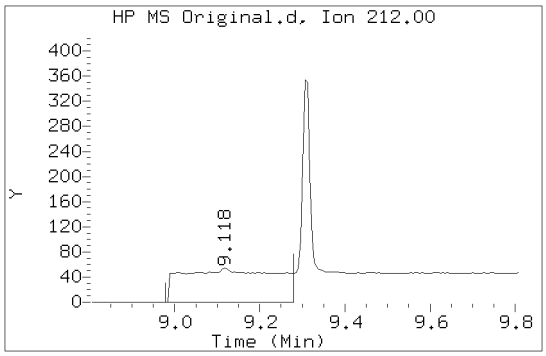
BEFORE
MASS
122
AREA
830
HEIGHT
48
03-Jul-2024
13:31
ALSHS
Server



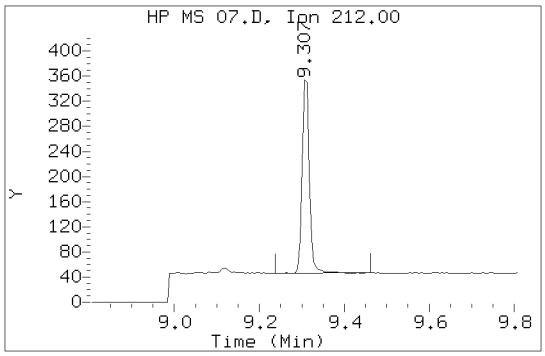

AFTER
MASS
122
AREA
462
HEIGHT
423
03-Jul-2024
16:10




BEFORE
MASS
212
AREA
833
HEIGHT
54
03-Jul-2024
13:31
ALSHS
Server




AFTER
MASS
212
AREA
354
HEIGHT
307
03-Jul-2024
16:10



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\08.D Page 1
Report Date: 03-Jul-2024 16:12

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\08.D
Lab Smp Id: HS24061196-01
Inj Date : 03-JUL-2024 13:33
Operator : LG Inst ID: SV6.i
Smp Info : HS24061196-01
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240703.b\DXSIM.m
Meth Date : 03-Jul-2024 12:28 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) | |
|---|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 3.508 | 3.503 | (1.000) | 3285 | 0.10000 | | (a) |
| * 45 Naphthalene-d8 | 136 | 4.576 | 4.576 | (1.000) | 10862 | 0.10000 | | |
| $ 33 Nitrobenzene-d5 | 82 | 3.937 | 3.937 | (0.860) | 1845 | 0.05658 | 0.05658 | |
| * 86 Acenaphthene-d10 | 164 | 6.244 | 6.239 | (1.000) | 6792 | 0.10000 | | |
| $ 69 2-Fluorobiphenyl | 172 | 5.580 | 5.580 | (0.894) | 6718 | 0.06470 | 0.06470 | |
| * 126 Phenanthrene-d10 | 188 | 7.693 | 7.693 | (1.000) | 13446 | 0.10000 | | |
| * 182 Chrysene-d12 | 240 | 10.646 | 10.646 | (1.000) | 13080 | 0.10000 | | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 9.312 | 9.306 | (0.875) | 12013 | 0.04508 | 0.04508 | (M) |
| * 198 Perylene-d12 | 264 | 12.817 | 12.818 | (1.000) | 12942 | 0.10000 | | |
| 1 1,4-Dioxane | 58 | 2.037 | 2.030 | (0.581) | 1320 | 0.18760 | 0.1876 | (M) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\08.D



Date : 03-JUL-2024 13:33

Client ID:

Instrument: SV6.i

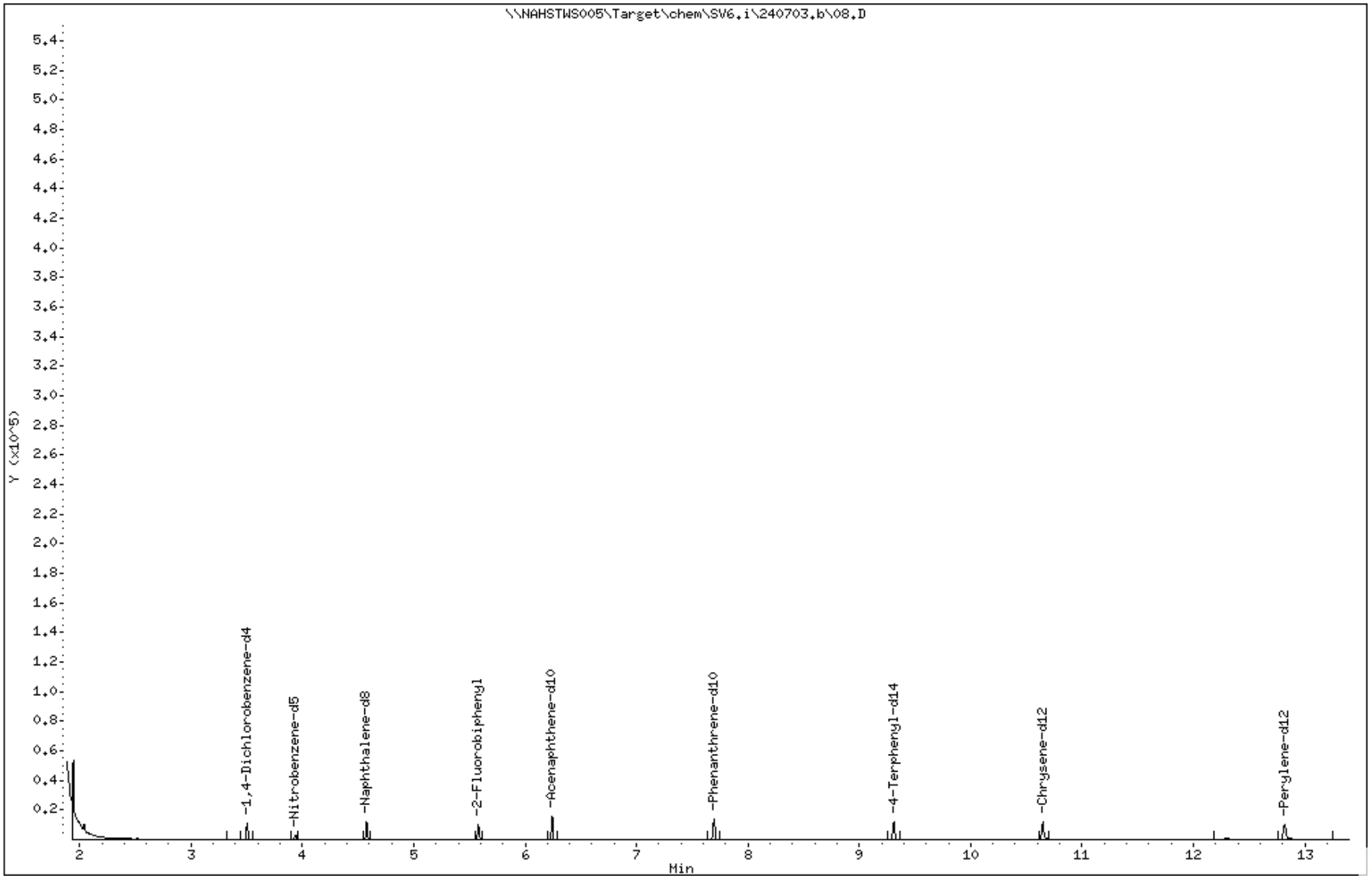
Sample Info: HS24061196-01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\08.D Page 2

Date : 03-JUL-2024 13:33

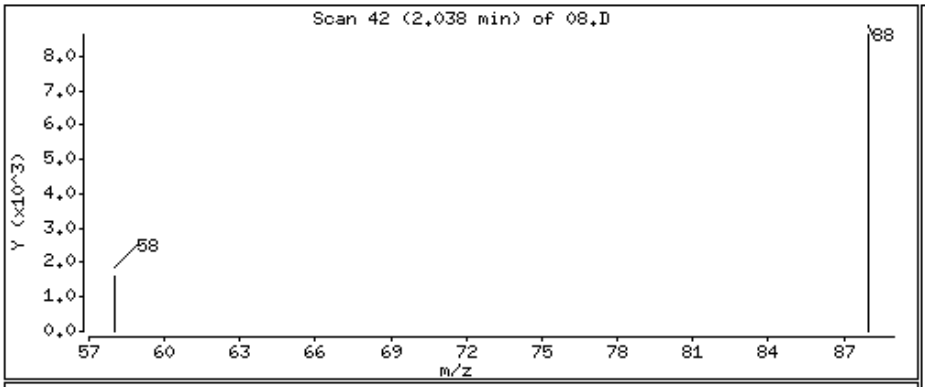
Client ID: Instrument: SV6.i

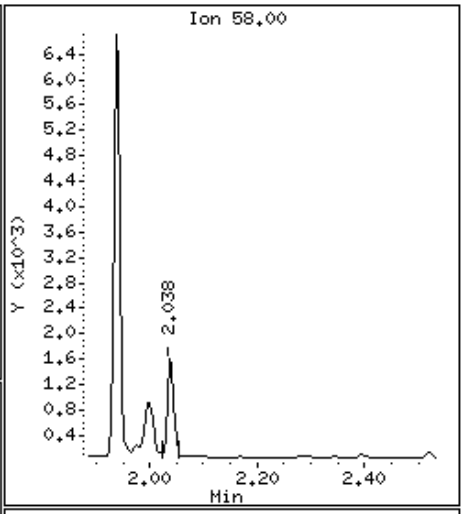
Sample Info: HS24061196-01

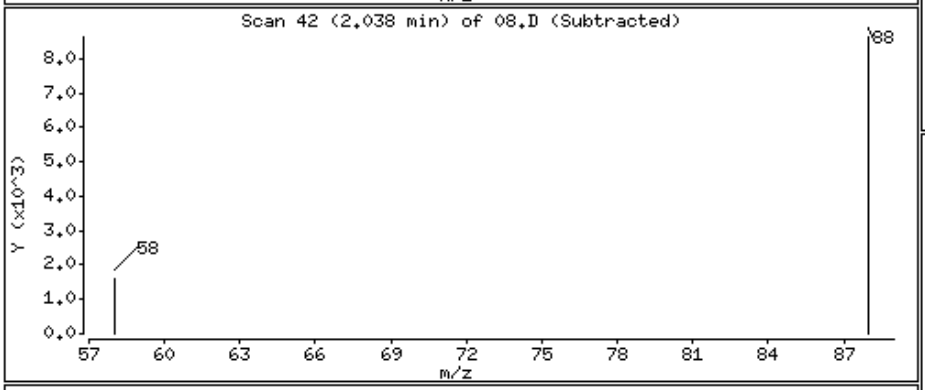
Purge Volume: 1000.0 Operator: LG

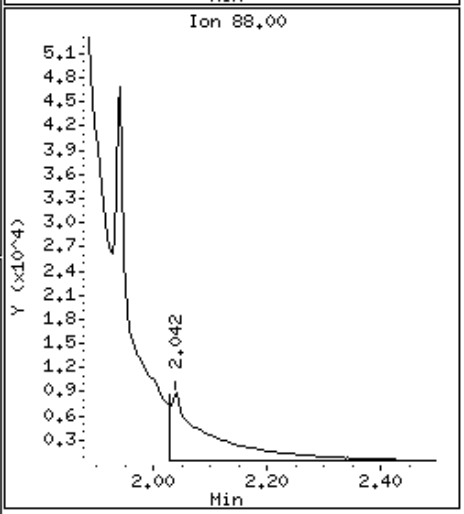
Column phase: RTX-5SIL MS Column diameter: 0.28

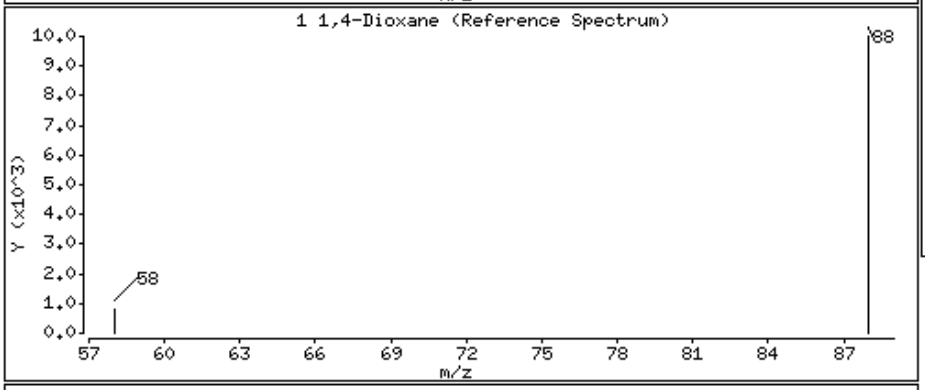
1 1,4-Dioxane Concentration: 0.1876 ug/L

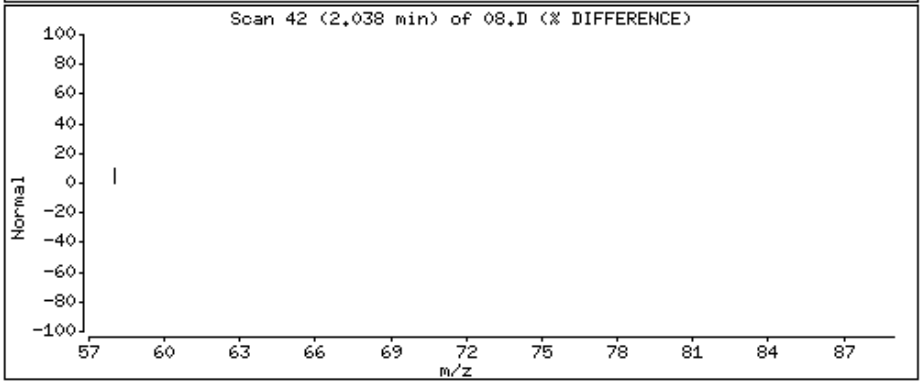


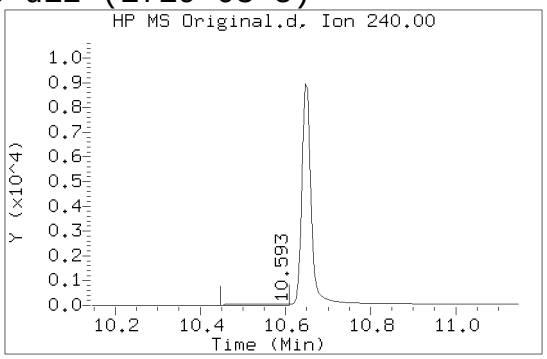



Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\08.D
Inj Date : 03-JUL-2024 13:33
InstruID : SV6.i
LabSampID : HS24061196-01

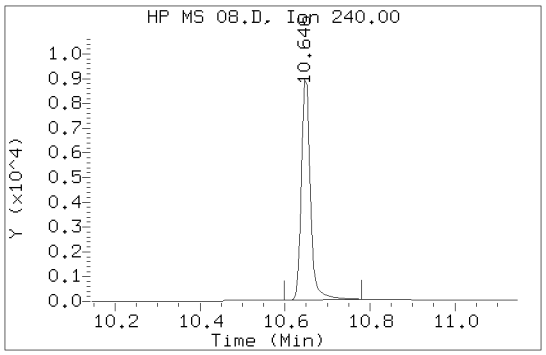
## Chrysene-d12 (1719-03-5)

Reason Code:

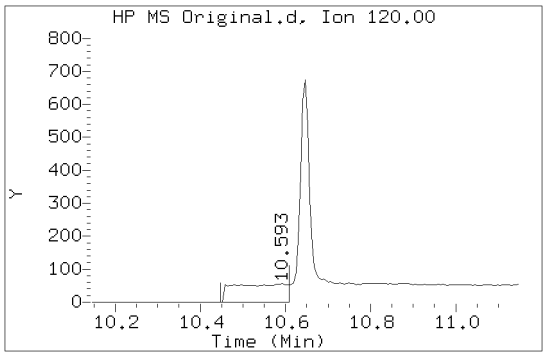
**BEFORE**
MASS
240
AREA
453
HEIGHT
53
03-Jul-2024
13:49
ALSHS
Server



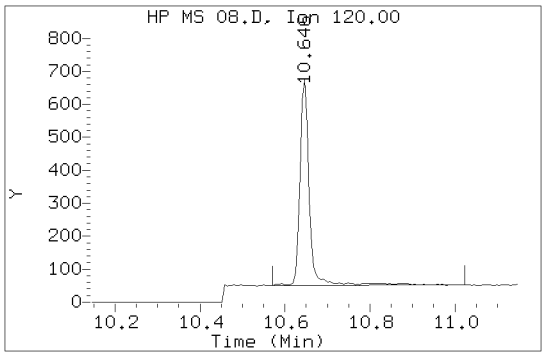

**AFTER**
MASS
240
AREA
13080
HEIGHT
8898
03-Jul-2024
16:12



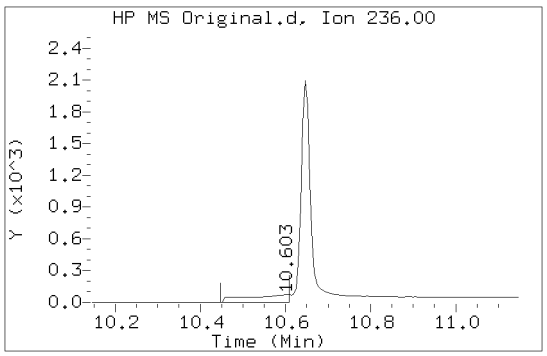

**BEFORE**
MASS
120
AREA
482
HEIGHT
56
03-Jul-2024
13:49
ALSHS
Server



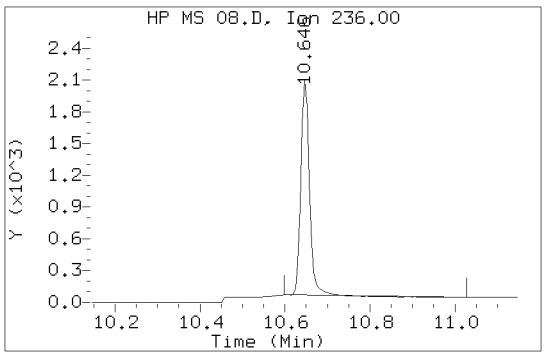

**AFTER**
MASS
120
AREA
953
HEIGHT
622
03-Jul-2024
16:12




**BEFORE**
MASS
236
AREA
506
HEIGHT
71
03-Jul-2024
13:49
ALSHS
Server



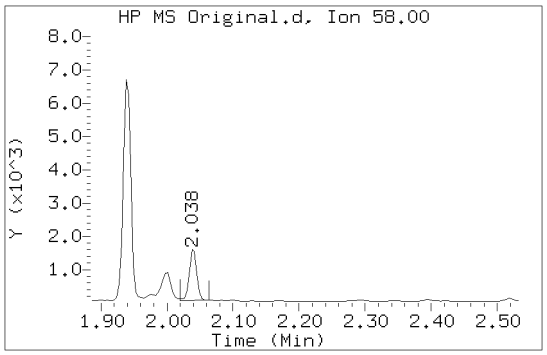

**AFTER**
MASS
236
AREA
2780
HEIGHT
2026
03-Jul-2024
16:12



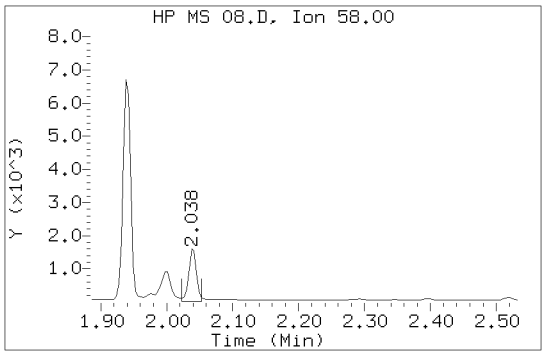

## 1,4-Dioxane ()

Reason Code:

**BEFORE**
MASS
58
AREA
1216
HEIGHT
1532
03-Jul-2024
13:49
ALSHS
Server




**AFTER**
MASS
58
AREA
1320
HEIGHT
1592
03-Jul-2024
16:12

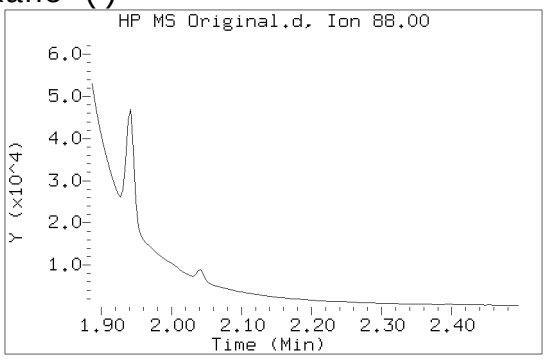


Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\08.D
Inj Date : 03-JUL-2024 13:33
InstruID : SV6.i
LabSampID : HS24061196-01

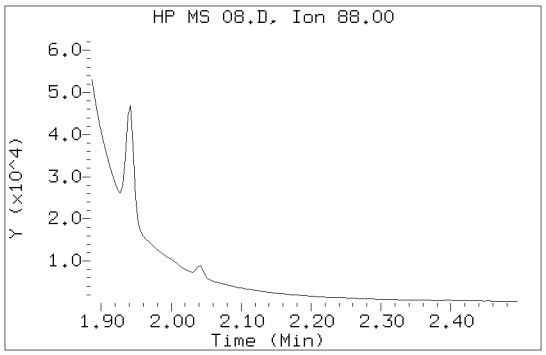
## 1,4-Dioxane ()

Reason Code:

BEFORE
MASS
88
AREA
42575
HEIGHT
8511
03-Jul-2024
13:49
ALSHS
Server



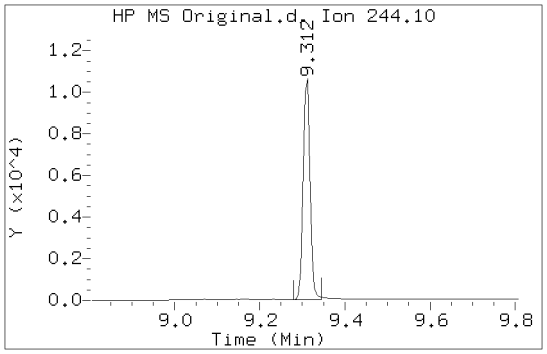

AFTER
MASS
88
AREA
42575
HEIGHT
8511
03-Jul-2024
16:12



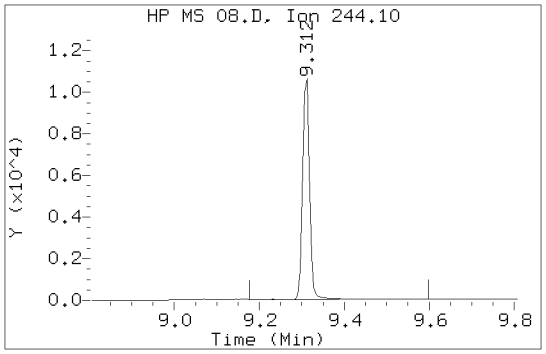

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

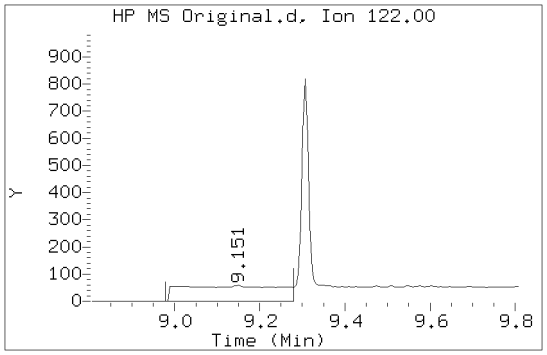
BEFORE
MASS
244.1
AREA
11793
HEIGHT
10606
03-Jul-2024
13:49
ALSHS
Server



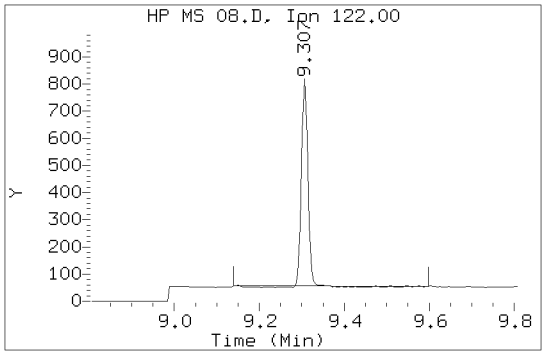

AFTER
MASS
244.1
AREA
12013
HEIGHT
10604
03-Jul-2024
16:12



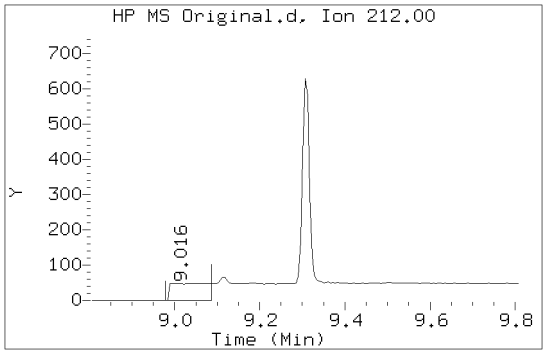

BEFORE
MASS
122
AREA
934
HEIGHT
59
03-Jul-2024
13:49
ALSHS
Server



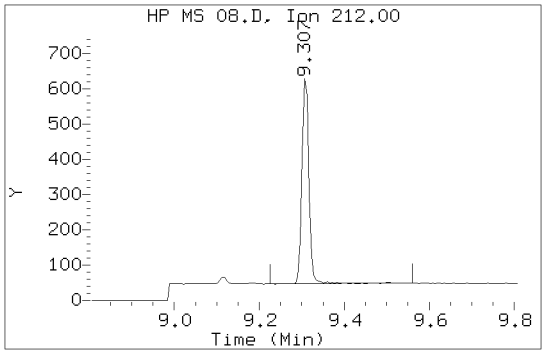

AFTER
MASS
122
AREA
731
HEIGHT
762
03-Jul-2024
16:12




BEFORE
MASS
212
AREA
289
HEIGHT
48
03-Jul-2024
13:49
ALSHS
Server




AFTER
MASS
212
AREA
657
HEIGHT
581
03-Jul-2024
16:12



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\09.D Page 1
Report Date: 03-Jul-2024 16:12

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\09.D
Lab Smp Id: HS24061196-02
Inj Date : 03-JUL-2024 13:50
Operator : LG Inst ID: SV6.i
Smp Info : HS24061196-02
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240703.b\DXSIM.m
Meth Date : 03-Jul-2024 12:28 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 3.508 | 3.503 | (1.000) | 3613 | 0.10000 | (aQ) |
| * 45 Naphthalene-d8 | 136 | 4.576 | 4.576 | (1.000) | 11812 | 0.10000 | |
| $ 33 Nitrobenzene-d5 | 82 | 3.943 | 3.937 | (0.862) | 1967 | 0.05547 | 0.05547 |
| * 86 Acenaphthene-d10 | 164 | 6.245 | 6.239 | (1.000) | 7392 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 5.580 | 5.580 | (0.894) | 6617 | 0.05856 | 0.05856 |
| * 126 Phenanthrene-d10 | 188 | 7.693 | 7.693 | (1.000) | 14589 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 10.646 | 10.646 | (1.000) | 13911 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 9.306 | 9.306 | (0.874) | 16245 | 0.05732 | 0.05732(M) |
| * 198 Perylene-d12 | 264 | 12.818 | 12.818 | (1.000) | 14302 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 2.015 | 2.030 | (0.575) | 62 | 0.00801 | 0.008012(aM) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\09.D



Date : 03-JUL-2024 13:50

Client ID:

Instrument: SV6.i

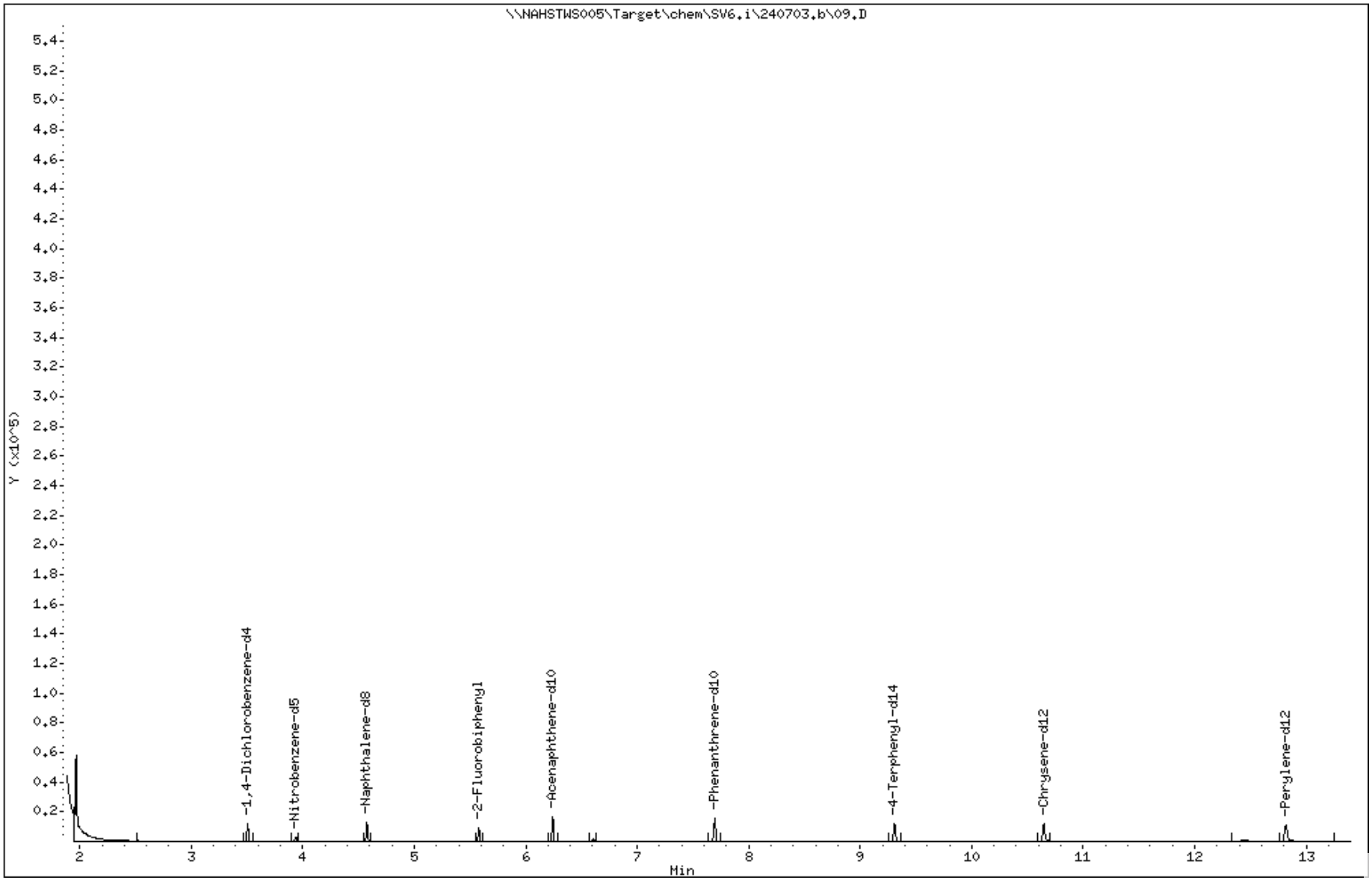
Sample Info: HS24061196-02

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\09.D Page 2

Date : 03-JUL-2024 13:50

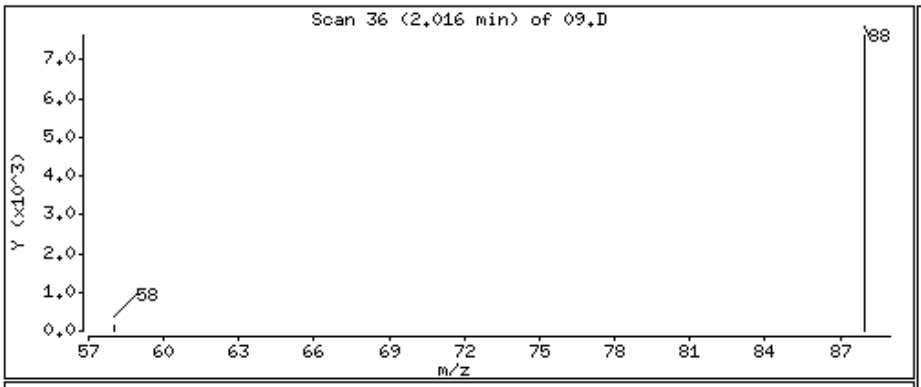
Client ID: Instrument: SV6.i

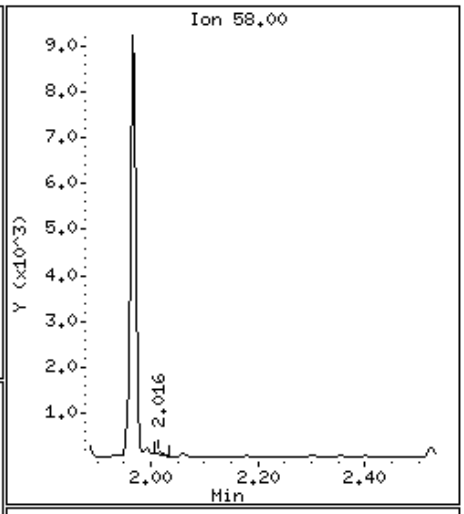
Sample Info: HS24061196-02

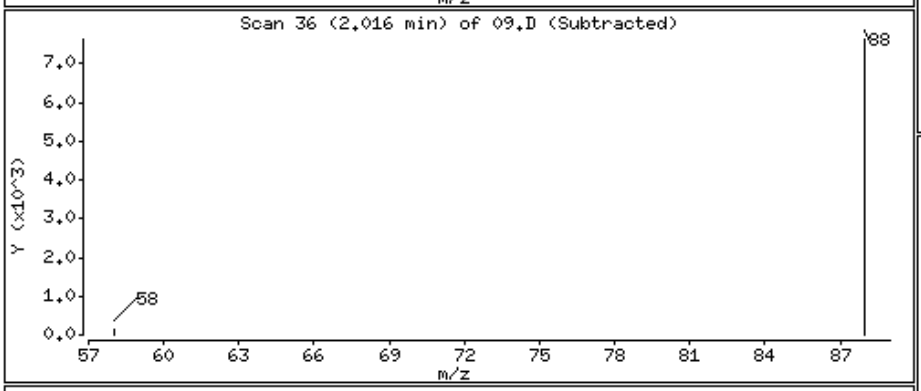
Purge Volume: 1000.0 Operator: LG

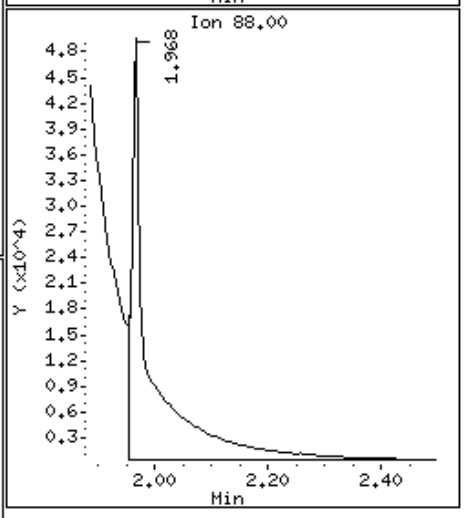
Column phase: RTX-5SIL MS Column diameter: 0.28

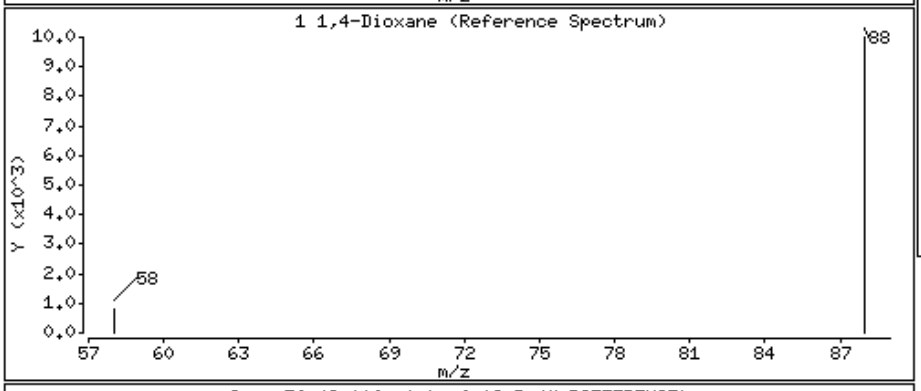
1 1,4-Dioxane Concentration: 0.008012 ug/L

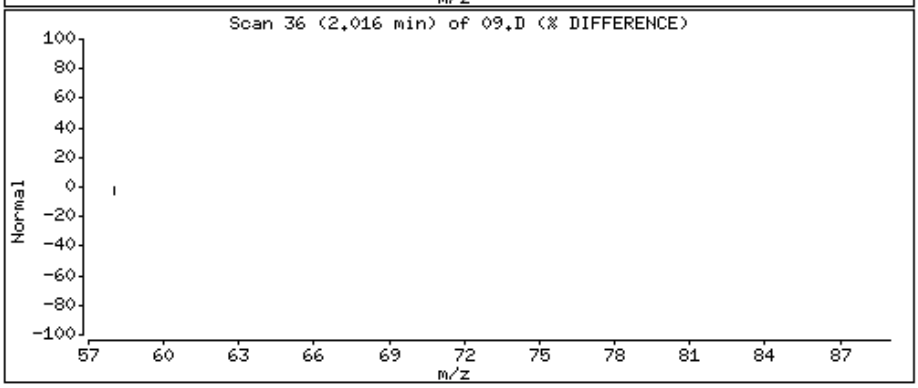


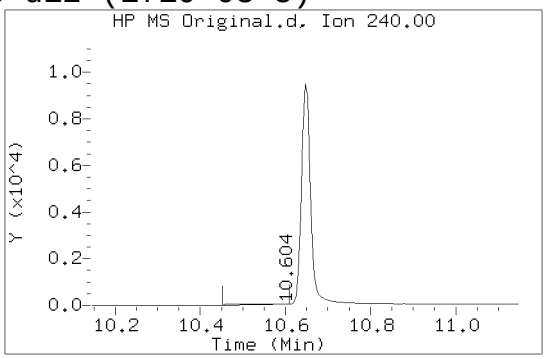
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\09.D
Inj Date : 03-JUL-2024 13:50
InstruID : SV6.i
LabSampID : HS24061196-02

## Chrysene-d12 (1719-03-5)

Reason Code:

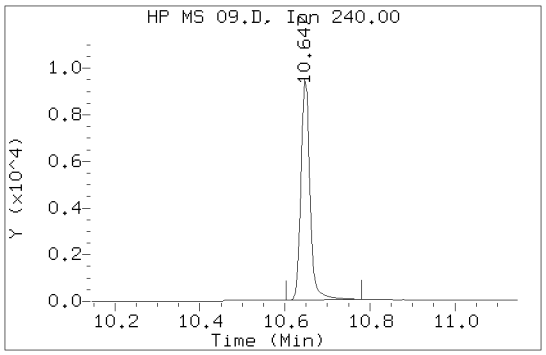
**BEFORE**

MASS
240
AREA
211
HEIGHT
1
03-Jul-2024
14:06
ALSHS
Server



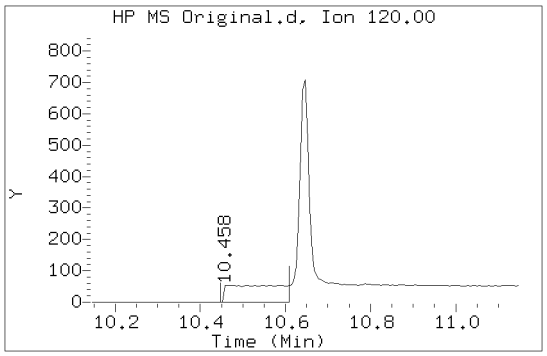

**AFTER**

MASS
240
AREA
13911
HEIGHT
9448
03-Jul-2024
16:11



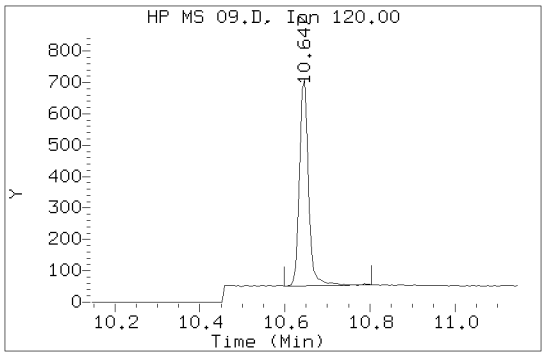

**BEFORE**

MASS
120
AREA
492
HEIGHT
54
03-Jul-2024
14:06
ALSHS
Server



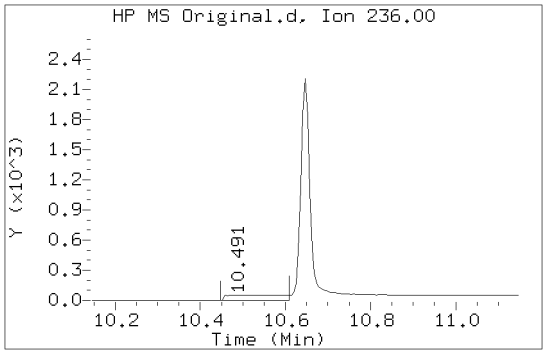

**AFTER**

MASS
120
AREA
956
HEIGHT
655
03-Jul-2024
16:11



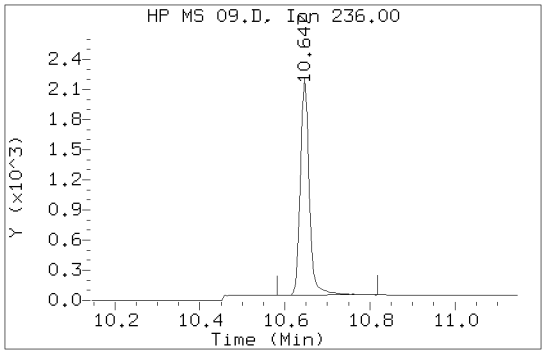

**BEFORE**

MASS
236
AREA
457
HEIGHT
50
03-Jul-2024
14:06
ALSHS
Server




**AFTER**

MASS
236
AREA
3121
HEIGHT
2156
03-Jul-2024
16:11

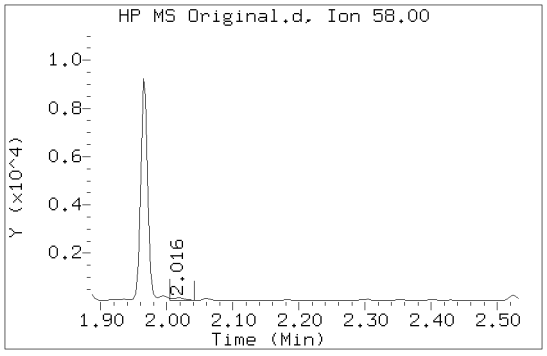



## 1,4-Dioxane ()

Reason Code:

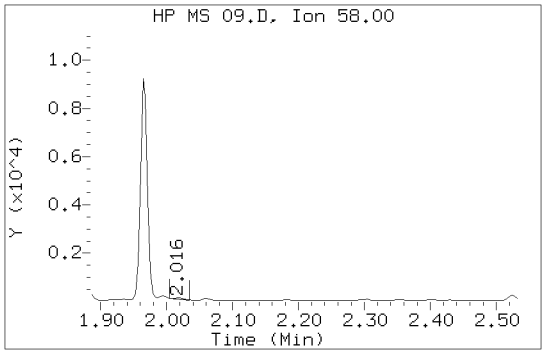
**BEFORE**

MASS
58
AREA
127
HEIGHT
103
03-Jul-2024
14:06
ALSHS
Server




**AFTER**

MASS
58
AREA
62
HEIGHT
63
03-Jul-2024
16:11



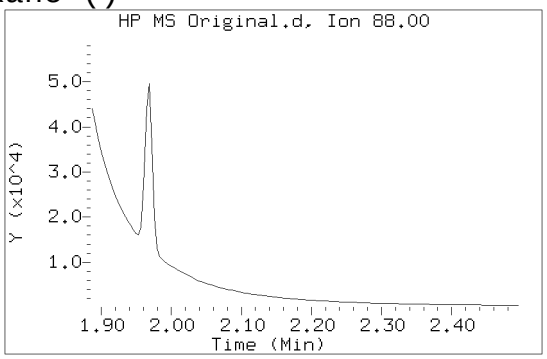
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\09.D
Inj Date : 03-JUL-2024 13:50
InstruID : SV6.i
LabSampID : HS24061196-02

## 1,4-Dioxane ()

Reason Code:

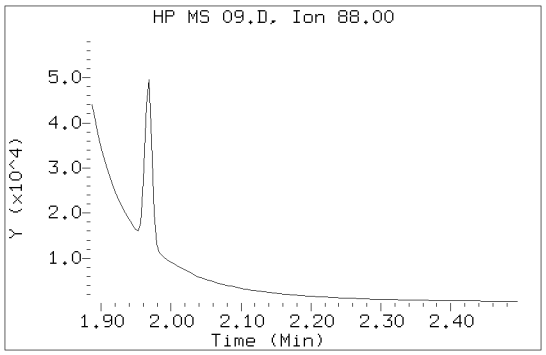
**BEFORE**

MASS
88
AREA
108758
HEIGHT
49157
03-Jul-2024
14:06
ALSHS
Server




**AFTER**

MASS
88
AREA
108758
HEIGHT
49157
03-Jul-2024
16:11

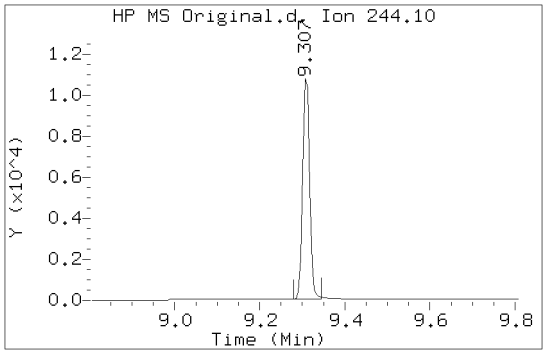



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

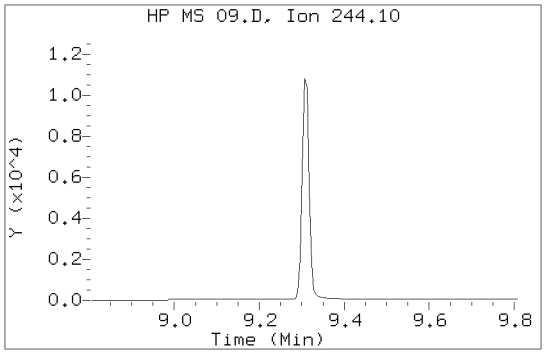
**BEFORE**

MASS
244.1
AREA
12208
HEIGHT
10771
03-Jul-2024
14:06
ALSHS
Server



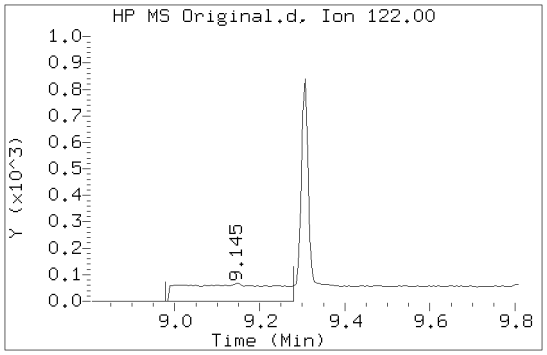

**AFTER**

MASS
244.1
AREA
16245
HEIGHT
10818
03-Jul-2024
16:11



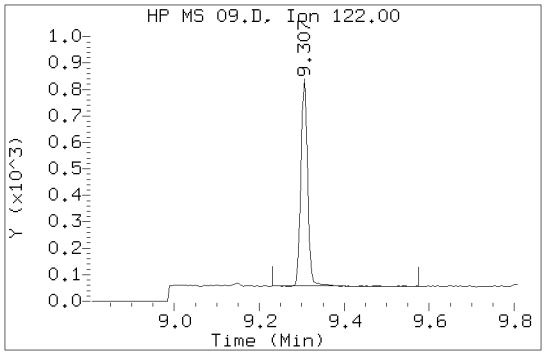

**BEFORE**

MASS
122
AREA
1043
HEIGHT
67
03-Jul-2024
14:06
ALSHS
Server



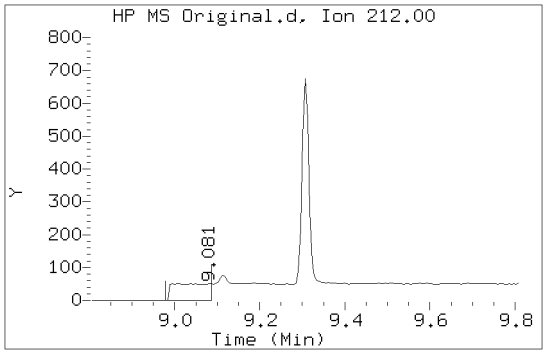

**AFTER**

MASS
122
AREA
841
HEIGHT
782
03-Jul-2024
16:11



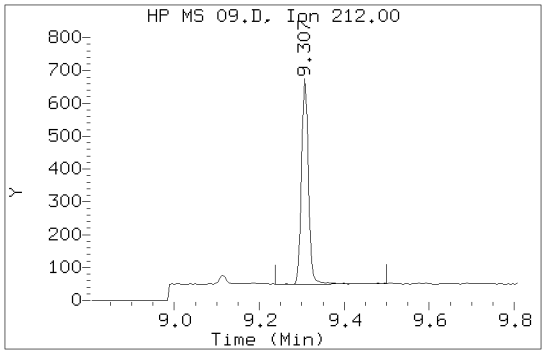

**BEFORE**

MASS
212
AREA
302
HEIGHT
51
03-Jul-2024
14:06
ALSHS
Server




**AFTER**

MASS
212
AREA
701
HEIGHT
625
03-Jul-2024
16:11



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\10.D Page 1
Report Date: 03-Jul-2024 16:13

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\10.D
Lab Smp Id: HS24061196-03
Inj Date : 03-JUL-2024 14:08
Operator : LG Inst ID: SV6.i
Smp Info : HS24061196-03
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240703.b\DXSIM.m
Meth Date : 03-Jul-2024 12:28 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) | |
|---|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 3.508 | 3.503 | (1.000) | 3721 | 0.10000 | | (a) |
| * 45 Naphthalene-d8 | 136 | 4.576 | 4.576 | (1.000) | 12167 | 0.10000 | | |
| $ 33 Nitrobenzene-d5 | 82 | 3.937 | 3.937 | (0.860) | 1907 | 0.05221 | 0.05221 | |
| * 86 Acenaphthene-d10 | 164 | 6.244 | 6.239 | (1.000) | 7545 | 0.10000 | | |
| $ 69 2-Fluorobiphenyl | 172 | 5.580 | 5.580 | (0.894) | 6447 | 0.05590 | 0.05590 | |
| * 126 Phenanthrene-d10 | 188 | 7.693 | 7.693 | (1.000) | 15202 | 0.10000 | | |
| * 182 Chrysene-d12 | 240 | 10.646 | 10.646 | (1.000) | 14643 | 0.10000 | | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 9.312 | 9.306 | (0.875) | 15231 | 0.05106 | 0.05106 | (M) |
| * 198 Perylene-d12 | 264 | 12.817 | 12.818 | (1.000) | 14856 | 0.10000 | | |
| 1 1,4-Dioxane | 58 | 2.023 | 2.030 | (0.577) | 173 | 0.02171 | 0.02170 | (Q) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\10.D



Date : 03-JUL-2024 14:08

Client ID:

Instrument: SV6.i

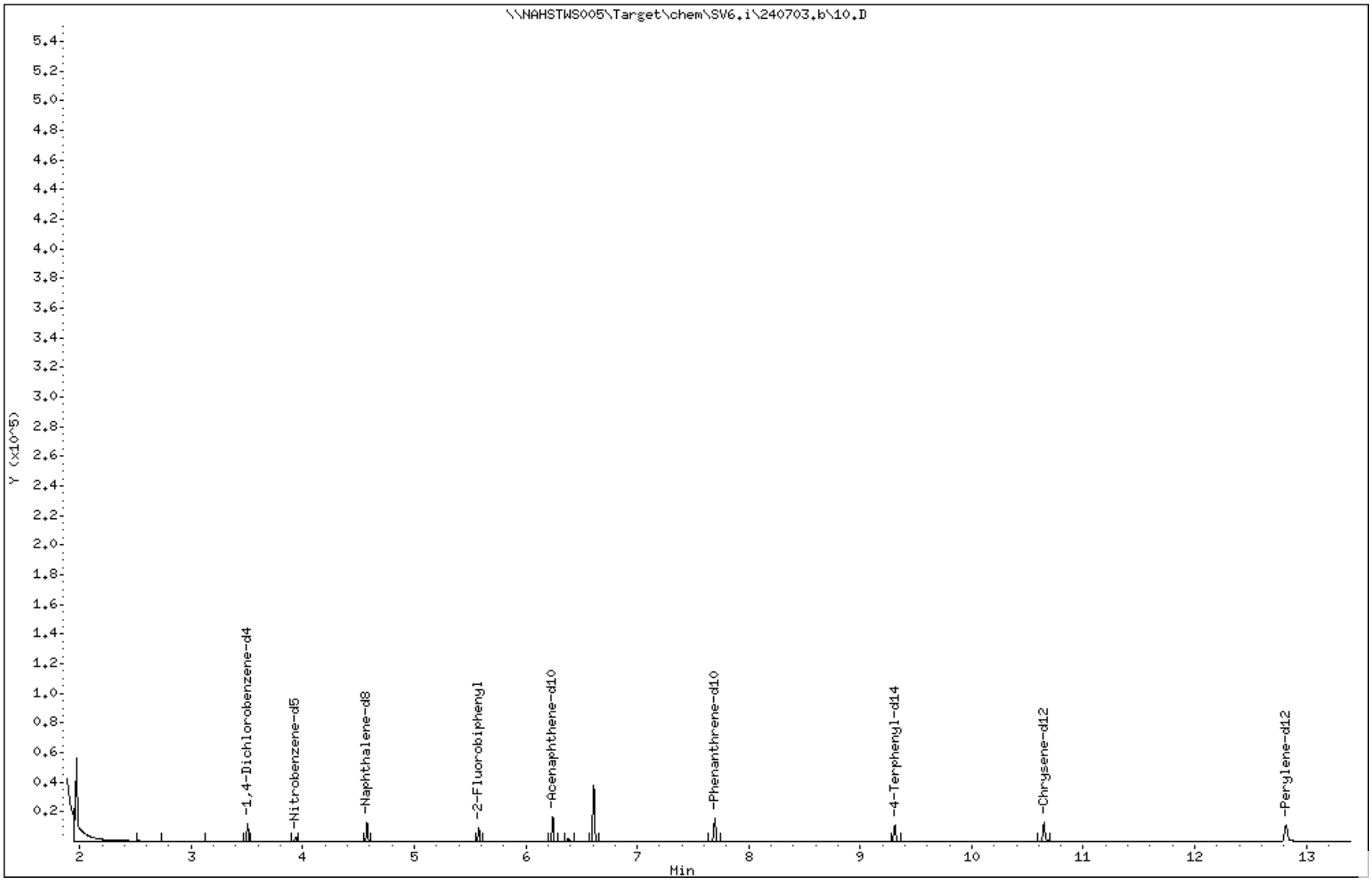
Sample Info: HS24061196-03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\10.D



Date : 03-JUL-2024 14:08

Client ID:

Instrument: SV6.i

Sample Info: HS24061196-03

Purge Volume: 1000.0

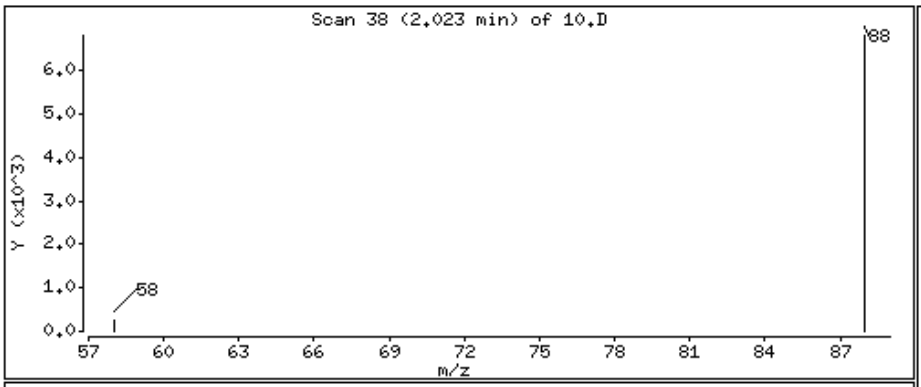
Operator: LG

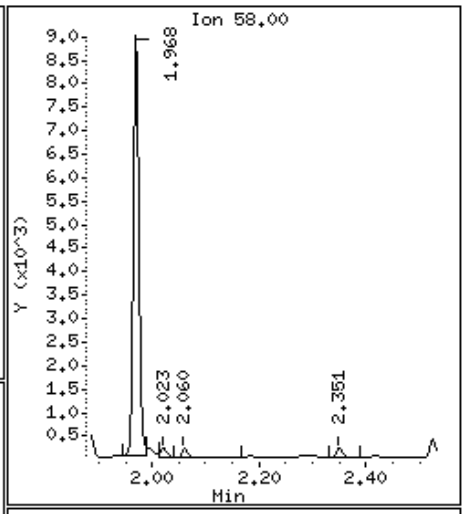
Column phase: RTX-5SIL MS

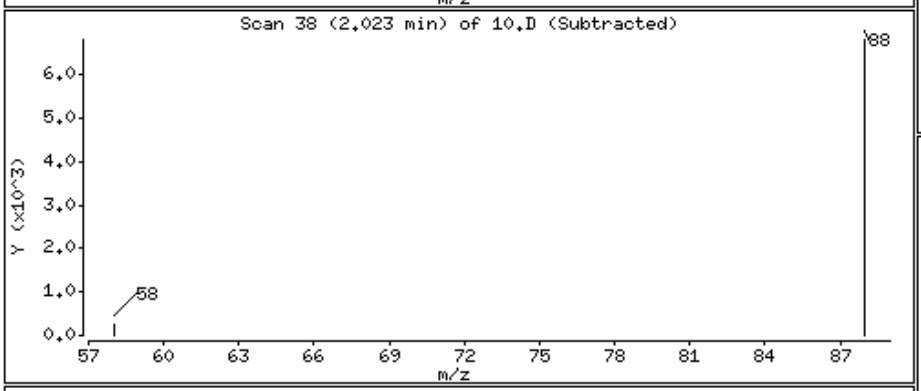
Column diameter: 0.28

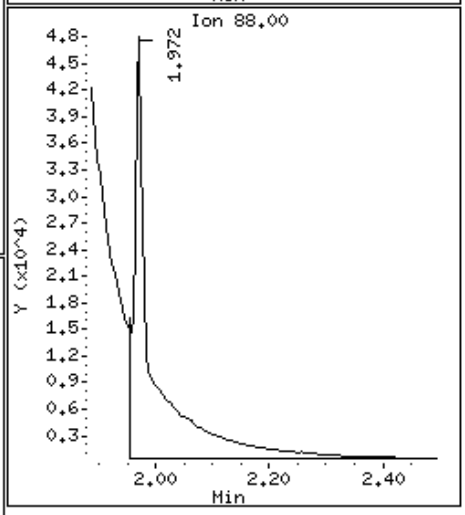
1 1,4-Dioxane

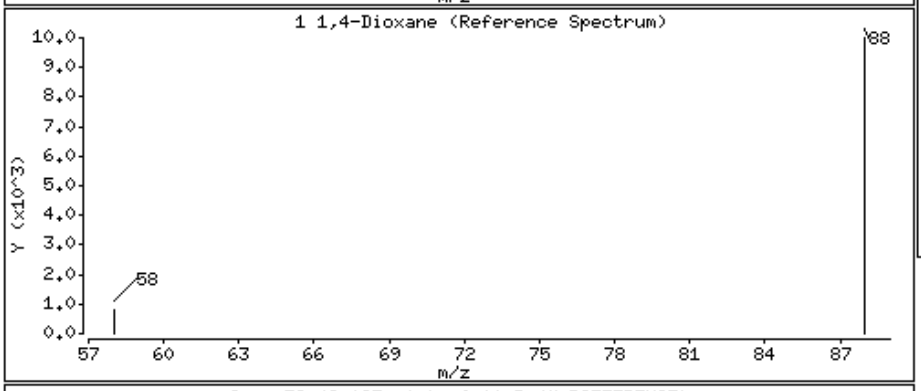
Concentration: 0.02170 ug/L

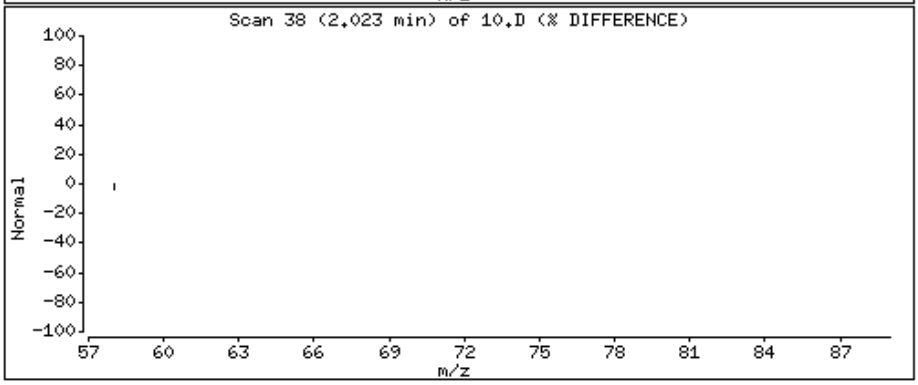


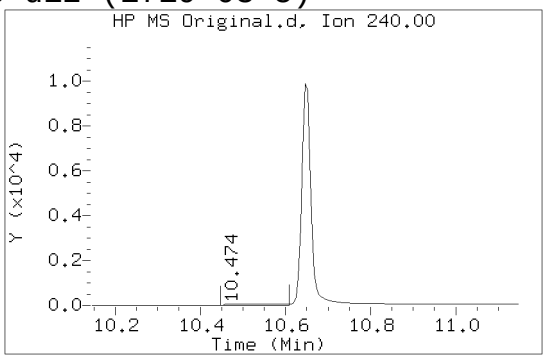



Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\10.D
Inj Date : 03-JUL-2024 14:08
InstruID : SV6.i
LabSampID : HS24061196-03

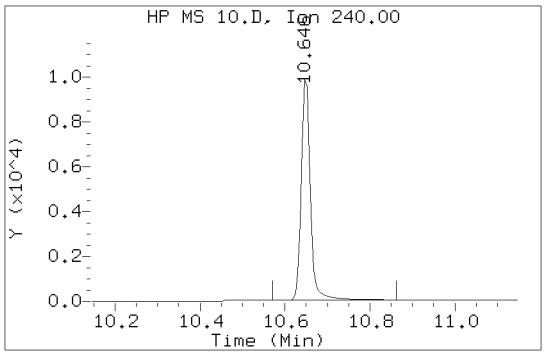
## Chrysene-d12 (1719-03-5)

Reason Code:

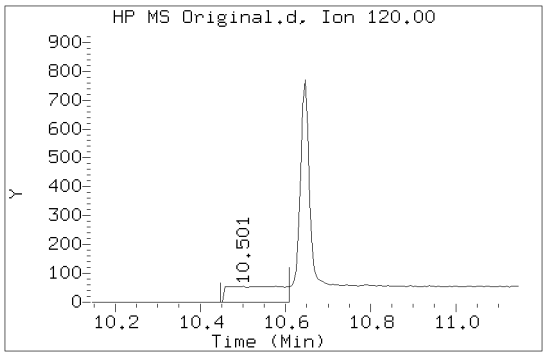
**BEFORE**
MASS
240
AREA
459
HEIGHT
53
03-Jul-2024
14:22
ALSHS
Server



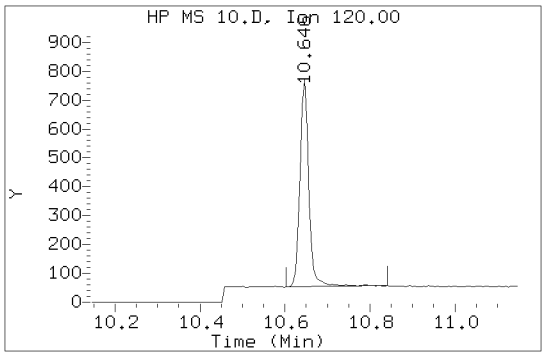

**AFTER**
MASS
240
AREA
14643
HEIGHT
9831
03-Jul-2024
16:13



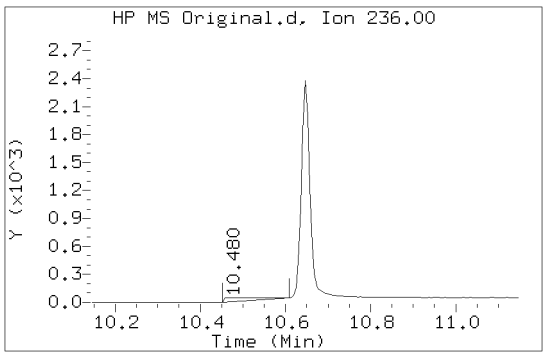

**BEFORE**
MASS
120
AREA
500
HEIGHT
55
03-Jul-2024
14:22
ALSHS
Server



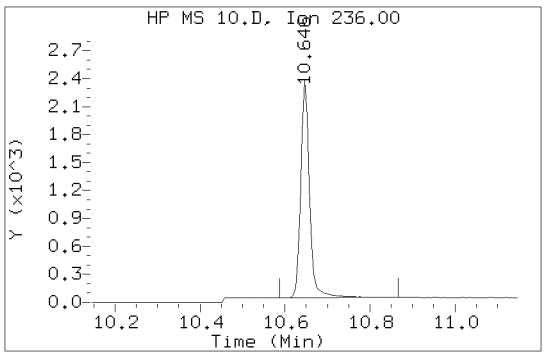

**AFTER**
MASS
120
AREA
1022
HEIGHT
715
03-Jul-2024
16:13




**BEFORE**
MASS
236
AREA
215
HEIGHT
41
03-Jul-2024
14:22
ALSHS
Server



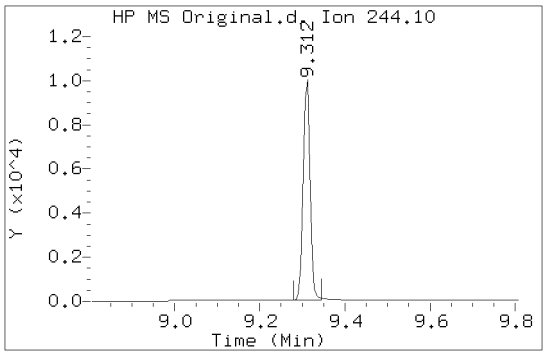

**AFTER**
MASS
236
AREA
3308
HEIGHT
2328
03-Jul-2024
16:13



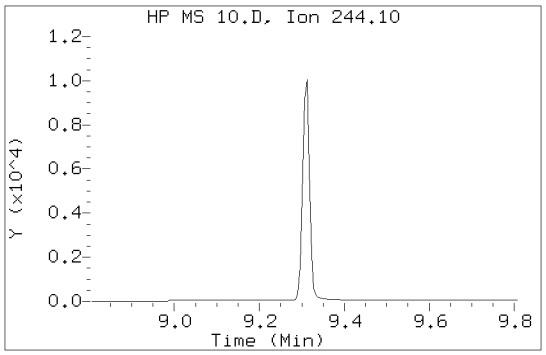

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

**BEFORE**
MASS
244.1
AREA
11173
HEIGHT
9996
03-Jul-2024
14:22
ALSHS
Server




**AFTER**
MASS
244.1
AREA
15231
HEIGHT
10046
03-Jul-2024
16:13

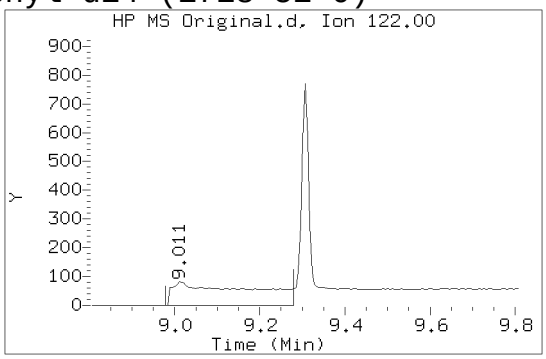


Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\10.D
Inj Date : 03-JUL-2024 14:08
InstruID : SV6.i
LabSampID : HS24061196-03

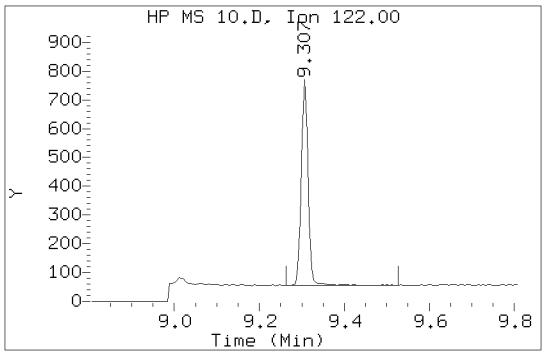
4-Terphenyl-d14 (1718-51-0)

Reason Code:

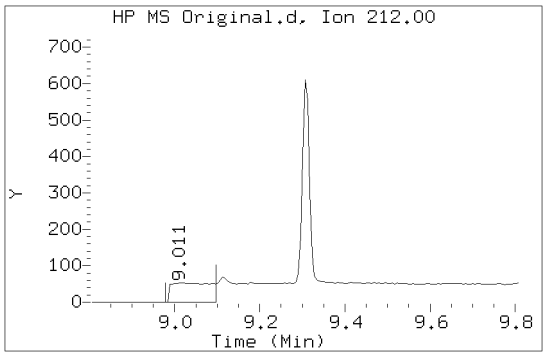
BEFORE
MASS
122
AREA
1051
HEIGHT
82
03-Jul-2024
14:22
ALSHS
Server



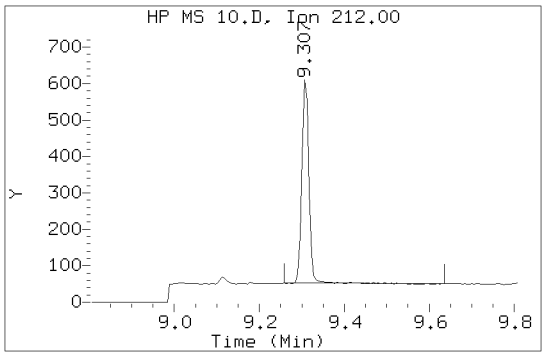

AFTER
MASS
122
AREA
775
HEIGHT
714
03-Jul-2024
16:13




BEFORE
MASS
212
AREA
345
HEIGHT
53
03-Jul-2024
14:22
ALSHS
Server




AFTER
MASS
212
AREA
626
HEIGHT
557
03-Jul-2024
16:13



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\11.D Page 1
Report Date: 03-Jul-2024 16:13

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\11.D
Lab Smp Id: HS24061196-04
Inj Date : 03-JUL-2024 14:25
Operator : LG Inst ID: SV6.i
Smp Info : HS24061196-04
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240703.b\DXSIM.m
Meth Date : 03-Jul-2024 12:28 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) | |
|---|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 3.503 | 3.503 | (1.000) | 2499 | 0.10000 | | (aQ) |
| * 45 Naphthalene-d8 | 136 | 4.576 | 4.576 | (1.000) | 7603 | 0.10000 | | |
| $ 33 Nitrobenzene-d5 | 82 | 3.937 | 3.937 | (0.860) | 1354 | 0.05932 | 0.05932 | |
| * 86 Acenaphthene-d10 | 164 | 6.244 | 6.239 | (1.000) | 4732 | 0.10000 | | |
| $ 69 2-Fluorobiphenyl | 172 | 5.580 | 5.580 | (0.894) | 4503 | 0.06225 | 0.06225 | |
| * 126 Phenanthrene-d10 | 188 | 7.698 | 7.693 | (1.000) | 9383 | 0.10000 | | |
| * 182 Chrysene-d12 | 240 | 10.651 | 10.646 | (1.000) | 9063 | 0.10000 | | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 9.312 | 9.306 | (0.874) | 10447 | 0.05658 | 0.05658 | (M) |
| * 198 Perylene-d12 | 264 | 12.823 | 12.818 | (1.000) | 9076 | 0.10000 | | |
| 1 1,4-Dioxane | 58 | 2.012 | 2.030 | (0.574) | 738 | 0.13787 | 0.1379 | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\11.D



Date : 03-JUL-2024 14:25

Client ID:

Instrument: SV6.i

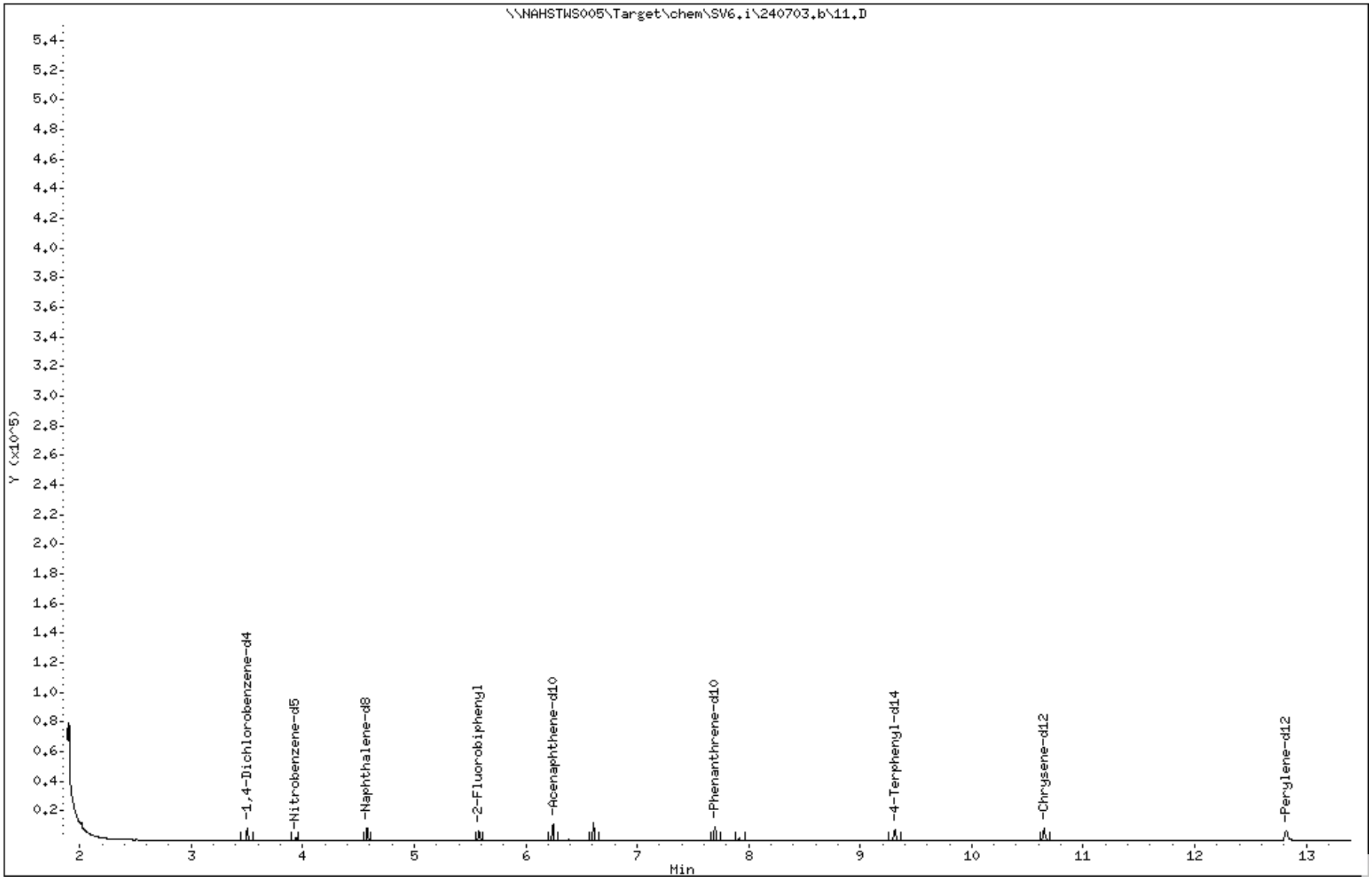
Sample Info: HS24061196-04

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\11.D



Date : 03-JUL-2024 14:25

Client ID:

Instrument: SV6.i

Sample Info: HS24061196-04

Purge Volume: 1000.0

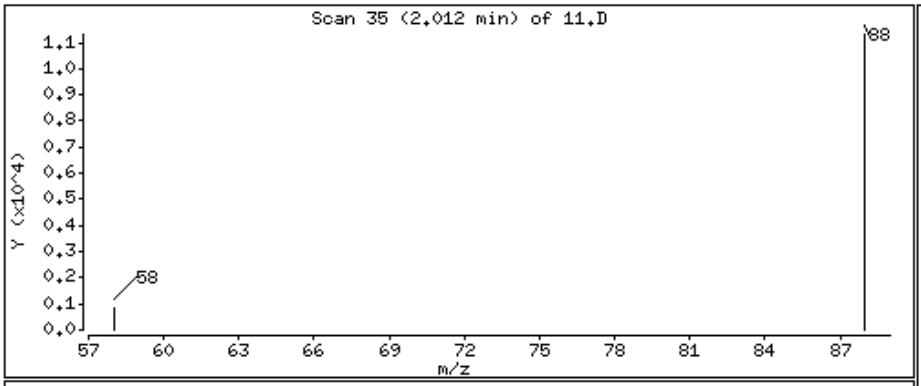
Operator: LC

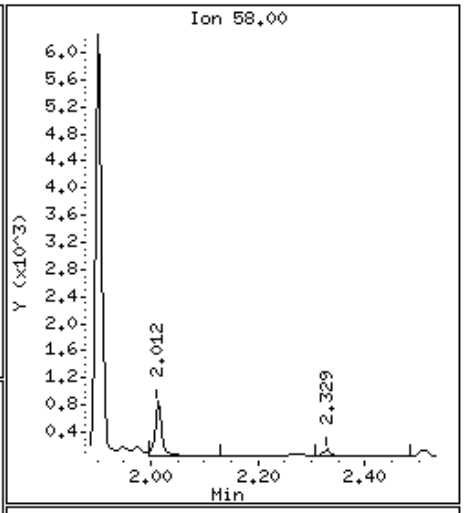
Column phase: RTX-5SIL MS

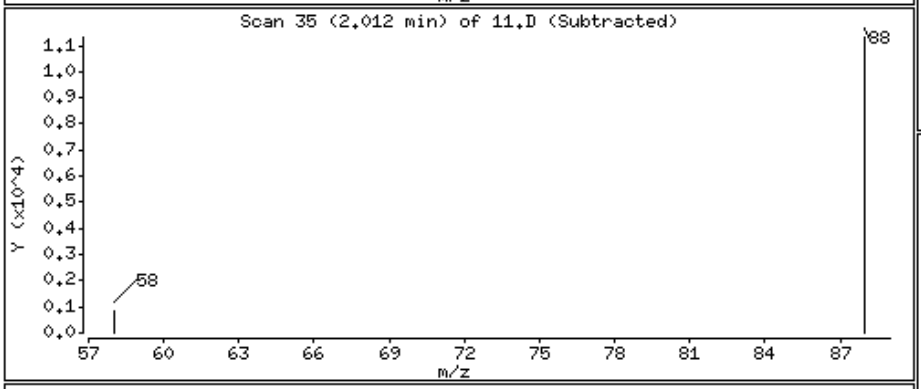
Column diameter: 0.28

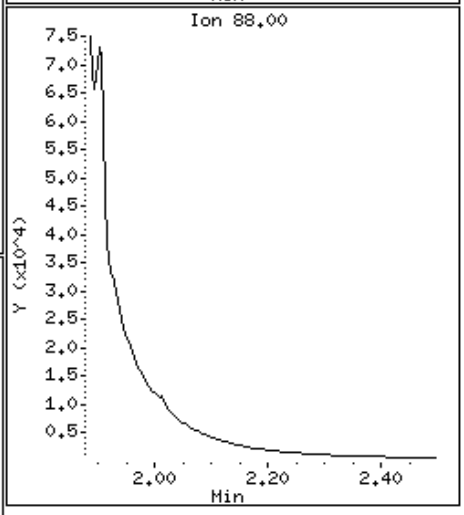
1 1,4-Dioxane

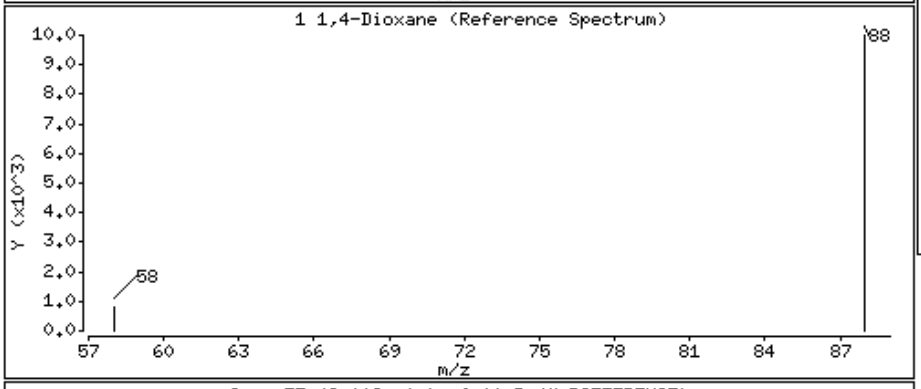
Concentration: 0.1379 ug/L

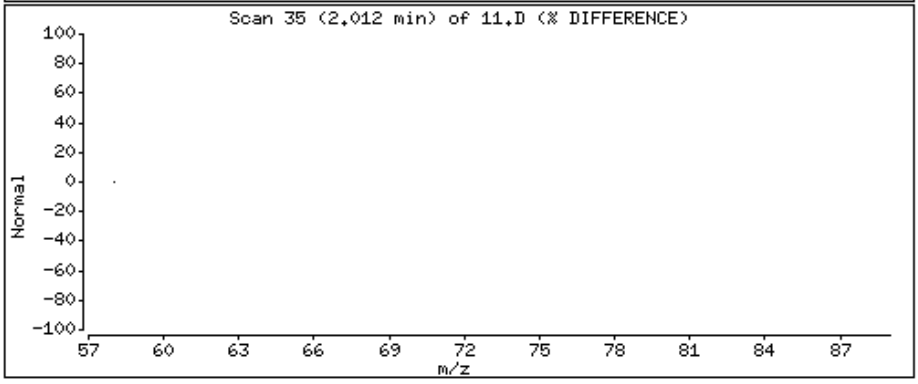


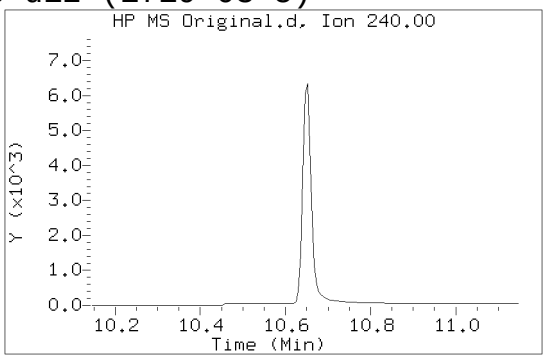
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\11.D
Inj Date : 03-JUL-2024 14:25
InstruID : SV6.i
LabSampID : HS24061196-04

## Chrysene-d12 (1719-03-5)

Reason Code:

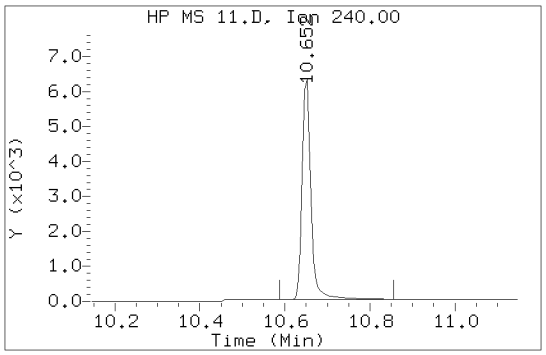
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
03-Jul-2024
14:39
ALSHS
Server



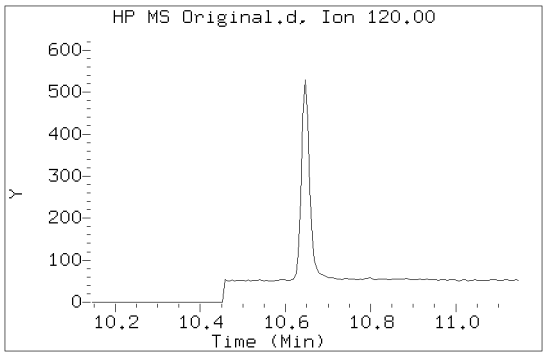

**AFTER**

MASS
240
AREA
9063
HEIGHT
6287
03-Jul-2024
16:13



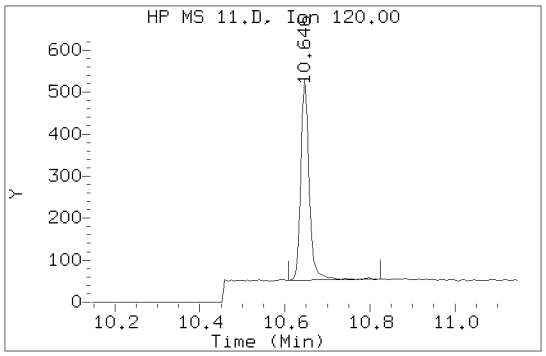

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
03-Jul-2024
14:39
ALSHS
Server



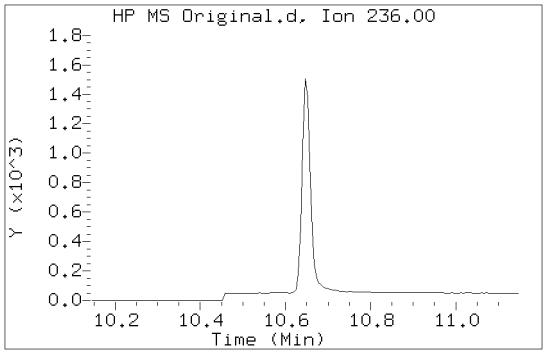

**AFTER**

MASS
120
AREA
645
HEIGHT
476
03-Jul-2024
16:13



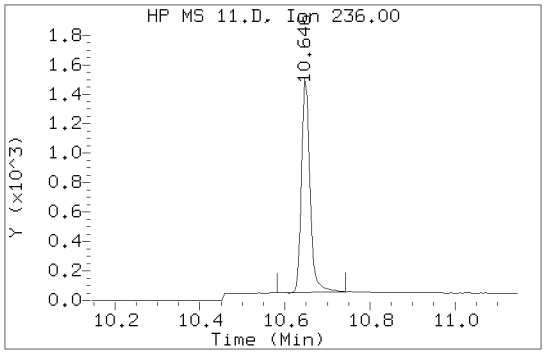

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
03-Jul-2024
14:39
ALSHS
Server




**AFTER**

MASS
236
AREA
2003
HEIGHT
1452
03-Jul-2024
16:13

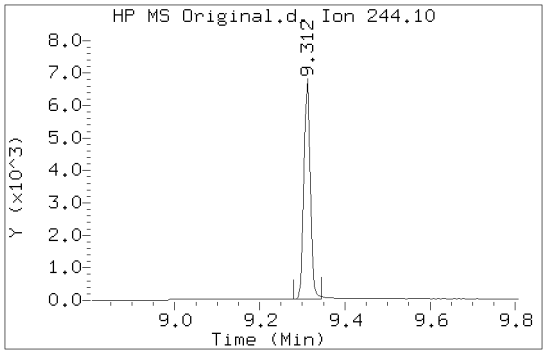



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

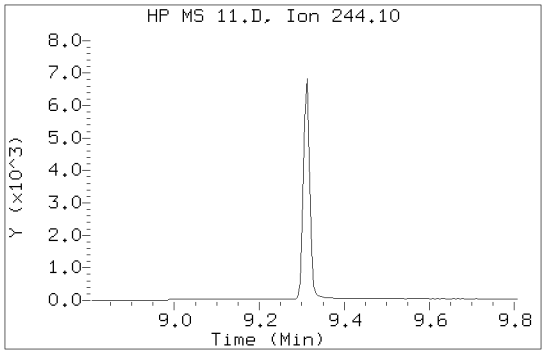
**BEFORE**

MASS
244.1
AREA
6985
HEIGHT
6778
03-Jul-2024
14:39
ALSHS
Server




**AFTER**

MASS
244.1
AREA
10447
HEIGHT
6820
03-Jul-2024
16:13

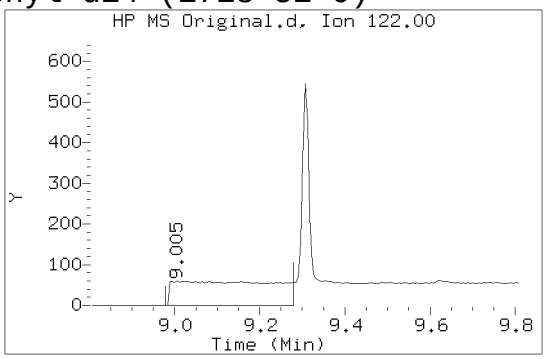


Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\11.D
Inj Date : 03-JUL-2024 14:25
InstruID : SV6.i
LabSampID : HS24061196-04

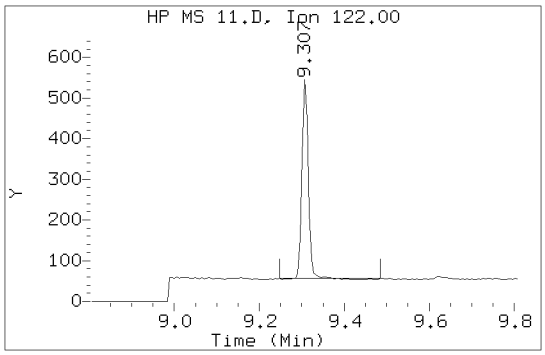
4-Terphenyl-d14 (1718-51-0)

Reason Code:

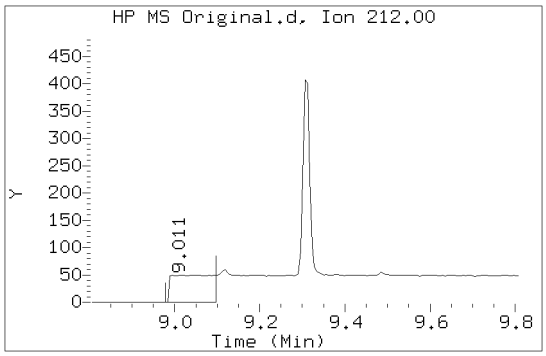
BEFORE
MASS
122
AREA
994
HEIGHT
60
03-Jul-2024
14:39
ALSHS
Server



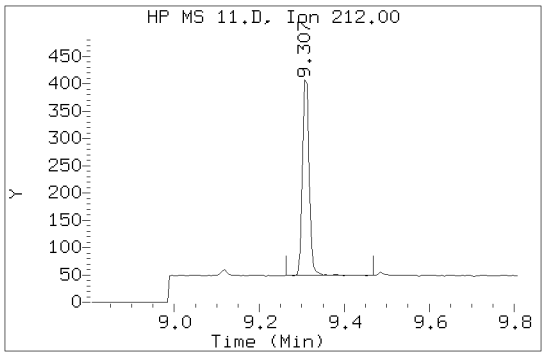

AFTER
MASS
122
AREA
486
HEIGHT
489
03-Jul-2024
16:13




BEFORE
MASS
212
AREA
330
HEIGHT
50
03-Jul-2024
14:39
ALSHS
Server




AFTER
MASS
212
AREA
380
HEIGHT
357
03-Jul-2024
16:13



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\16.D Page 1
Report Date: 25-Jul-2024 16:21

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\16.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 03-JUL-2024 15:52
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240703.b\DXSIM.m
Meth Date : 25-Jul-2024 16:21 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | ON-COL ( NG) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 3.502 | 3.502 | (1.000) | 1844 | 0.10000 | (aQM) |
| * 45 Naphthalene-d8 | 136 | 4.580 | 4.580 | (1.000) | 6013 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.937 | 3.937 | (1.000) | 1437 | 0.08000 | 0.07960 |
| * 86 Acenaphthene-d10 | 164 | 6.244 | 6.244 | (1.000) | 4107 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 5.583 | 5.583 | (0.894) | 5546 | 0.08000 | 0.08834 |
| * 126 Phenanthrene-d10 | 188 | 7.698 | 7.698 | (1.000) | 7069 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 10.651 | 10.651 | (1.000) | 6750 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 9.312 | 9.312 | (0.874) | 9275 | 0.08000 | 0.06745(M) |
| * 198 Perylene-d12 | 264 | 12.823 | 12.823 | (1.000) | 7117 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 1.997 | 1.997 | (0.570) | 292 | 0.08000 | 0.07393 |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\16.D



Date : 03-JUL-2024 15:52

Client ID: 14DX-0.08

Instrument: SV6.i

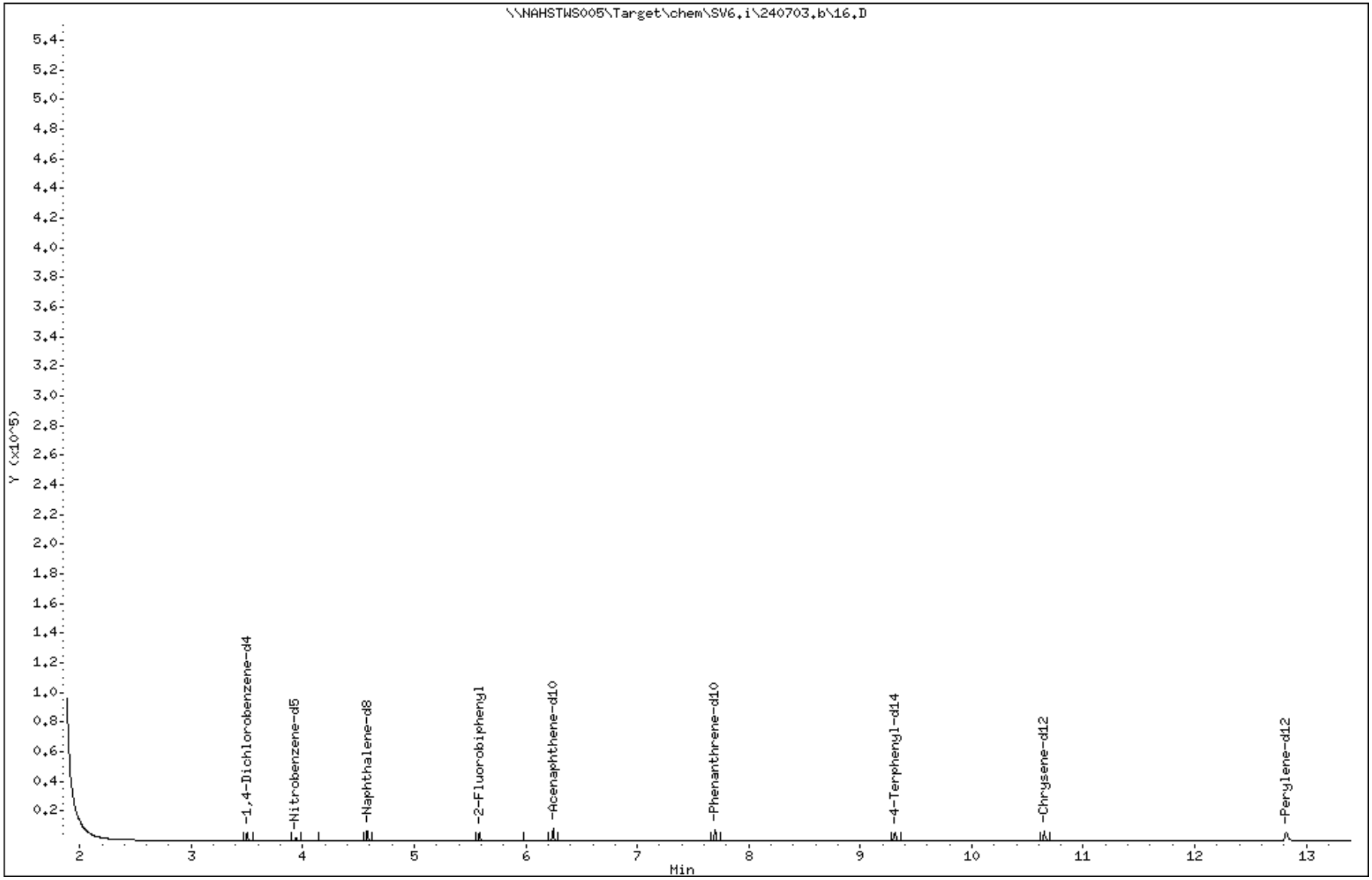
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



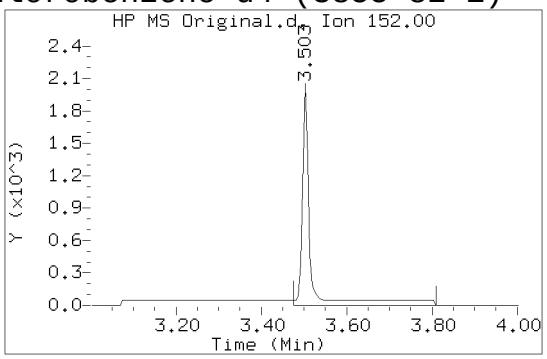
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\16.D
Inj Date : 03-JUL-2024 15:52
InstruID : SV6.i
LabSampID : 14DX-0.08

## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

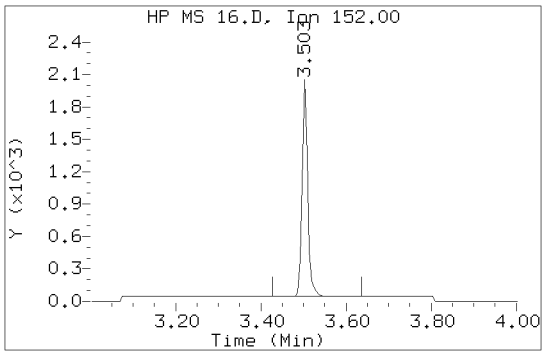
BEFORE

MASS
152
AREA
2753
HEIGHT
2052
03-Jul-2024
16:08
ALSHS
Server



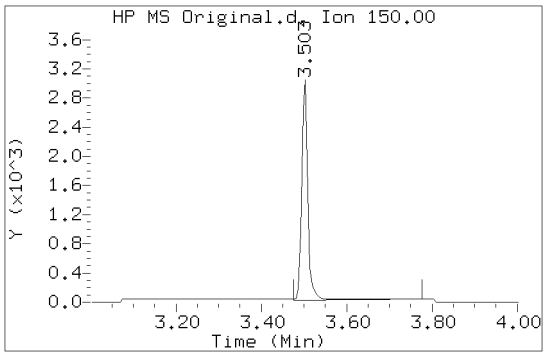

AFTER

MASS
152
AREA
1844
HEIGHT
2006
25-Jul-2024
16:21
ALSHS
S



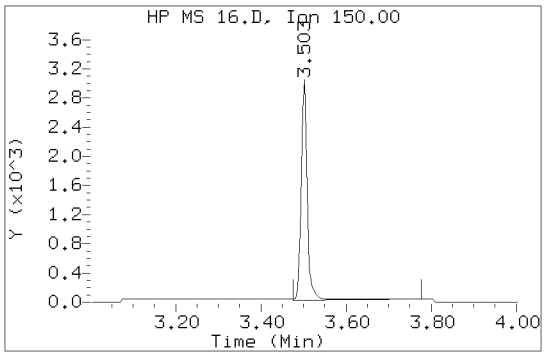

BEFORE

MASS
150
AREA
3083
HEIGHT
3021
03-Jul-2024
16:08
ALSHS
Server



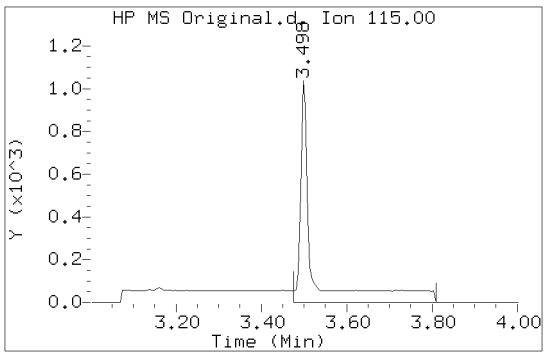

AFTER

MASS
150
AREA
3083
HEIGHT
3021
25-Jul-2024
16:21
ALSHS
S



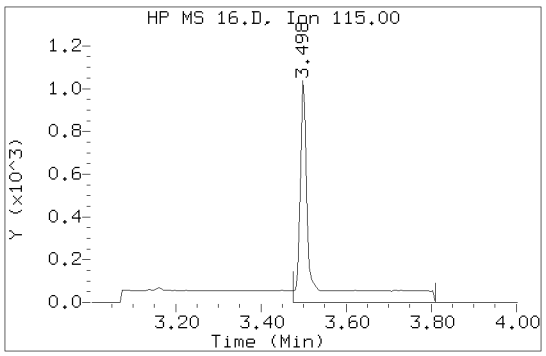

BEFORE

MASS
115
AREA
2033
HEIGHT
1037
03-Jul-2024
16:08
ALSHS
Server




AFTER

MASS
115
AREA
2033
HEIGHT
1037
25-Jul-2024
16:21
ALSHS
S

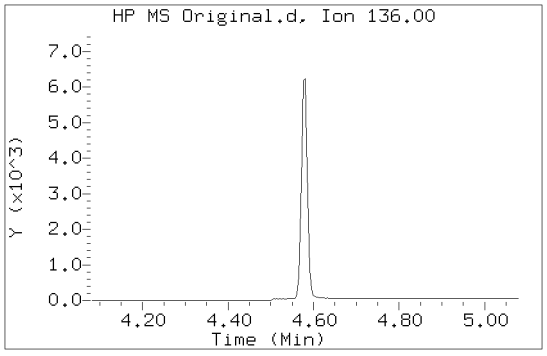



## Naphthalene-d8 (1146-65-2)

Reason Code:

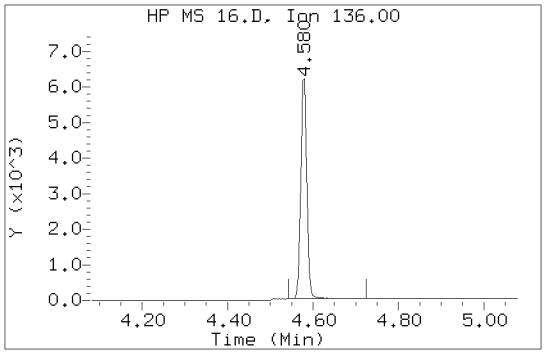
BEFORE

MASS
136
AREA
0
HEIGHT
0
03-Jul-2024
16:08
ALSHS
Server




AFTER

MASS
136
AREA
6013
HEIGHT
6187
25-Jul-2024
16:21
ALSHS
S



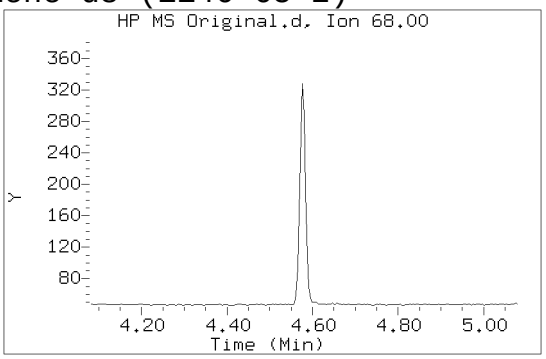
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\16.D
Inj Date : 03-JUL-2024 15:52
InstruID : SV6.i
LabSampID : 14DX-0.08

## Naphthalene-d8 (1146-65-2)

Reason Code:

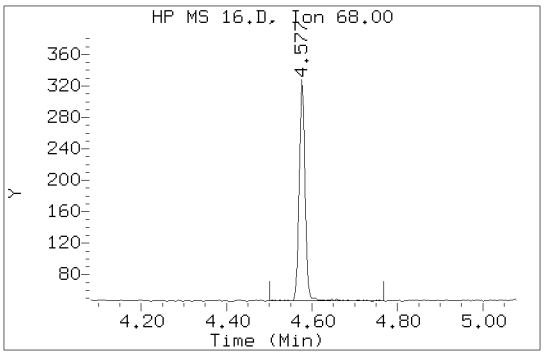
BEFORE

MASS
68
AREA
0
HEIGHT
0
03-Jul-2024
16:08
ALSHS
Server




AFTER

MASS
68
AREA
265
HEIGHT
281
25-Jul-2024
16:21
ALSHS
S

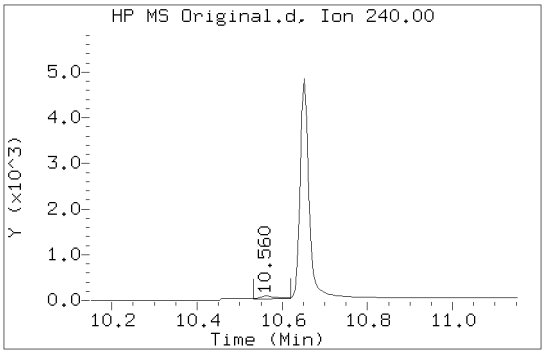



## Chrysene-d12 (1719-03-5)

Reason Code:

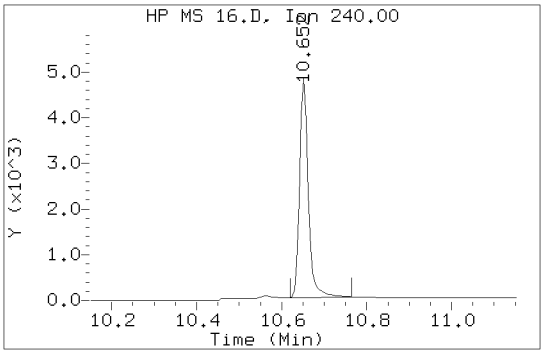
BEFORE

MASS
240
AREA
159
HEIGHT
68
03-Jul-2024
16:08
ALSHS
Server



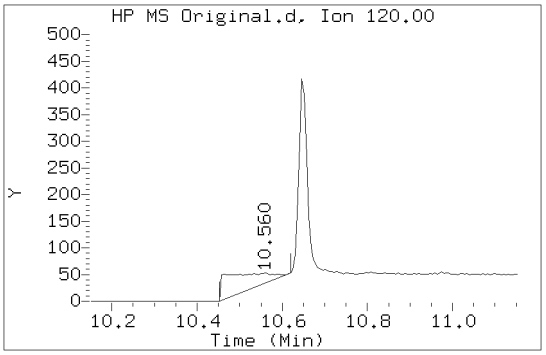

AFTER

MASS
240
AREA
6750
HEIGHT
4796
25-Jul-2024
16:21
ALSHS
S



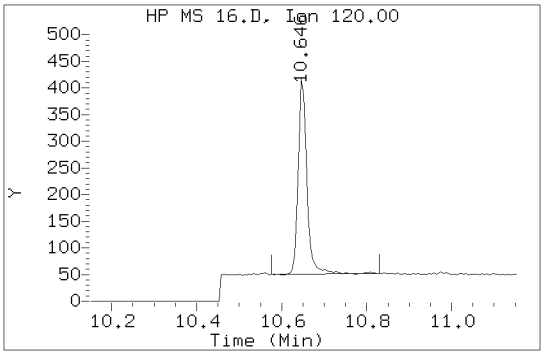

BEFORE

MASS
120
AREA
232
HEIGHT
18
03-Jul-2024
16:08
ALSHS
Server



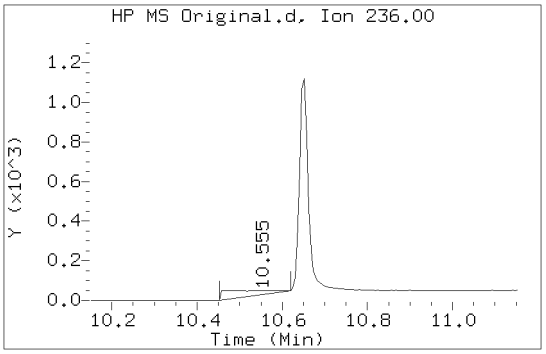

AFTER

MASS
120
AREA
513
HEIGHT
365
25-Jul-2024
16:21
ALSHS
S



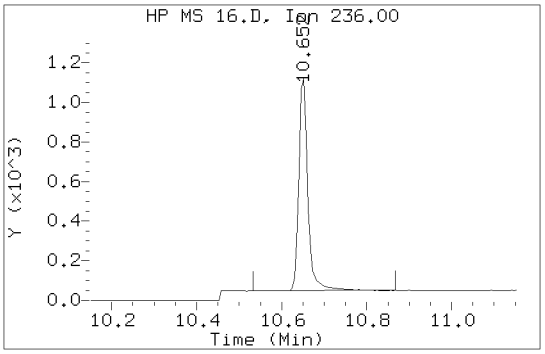

BEFORE

MASS
236
AREA
216
HEIGHT
19
03-Jul-2024
16:08
ALSHS
Server




AFTER

MASS
236
AREA
1568
HEIGHT
1071
25-Jul-2024
16:21
ALSHS
S

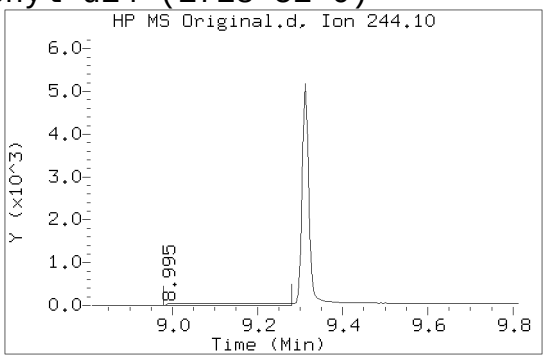


Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\16.D
Inj Date : 03-JUL-2024 15:52
InstruID : SV6.i
LabSampID : 14DX-0.08

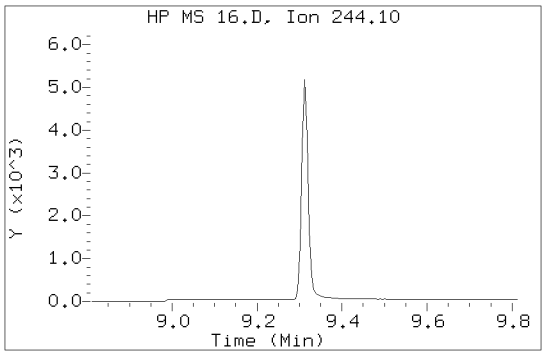
4-Terphenyl-d14 (1718-51-0)

Reason Code:

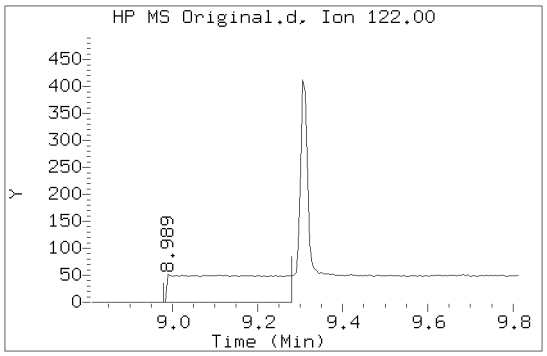
BEFORE
MASS
244.1
AREA
809
HEIGHT
46
03-Jul-2024
16:08
ALSHS
Server



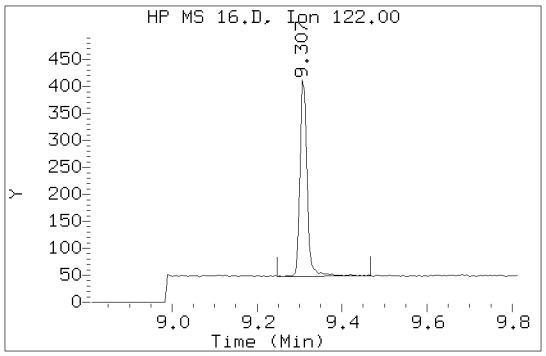

AFTER
MASS
244.1
AREA
9275
HEIGHT
5179
25-Jul-2024
16:21
ALSHS
S



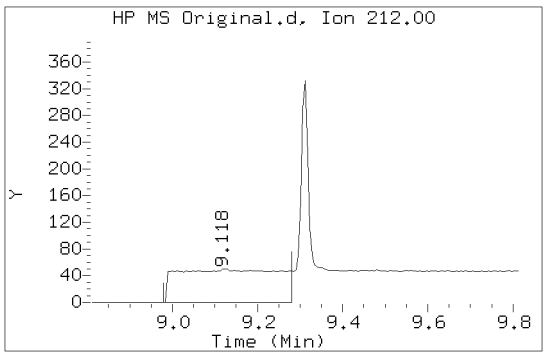

BEFORE
MASS
122
AREA
868
HEIGHT
51
03-Jul-2024
16:08
ALSHS
Server



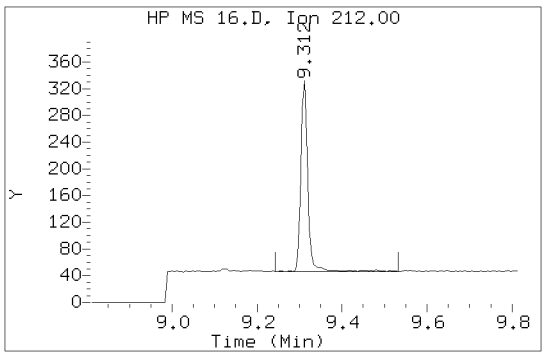

AFTER
MASS
122
AREA
420
HEIGHT
363
25-Jul-2024
16:21
ALSHS
S




BEFORE
MASS
212
AREA
829
HEIGHT
50
03-Jul-2024
16:08
ALSHS
Server




AFTER
MASS
212
AREA
328
HEIGHT
286
25-Jul-2024
16:21
ALSHS
S



right solutions.
right partner.

# RawData

## <textMethods>

Workorder

HS24061196

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/25/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 18-APR-2024 10:39
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

| RT | EXP RT | DLT RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 dftpp | | | | | | CAS #: 5074-71-5 | | |
| 4.170 | 5.571 | -1.401 | 198 | 262912 | | | 0.00- 100.00 | 71.46 |
| 4.170 | 6.357 | -2.187 | 51 | 62088 | | | 10.00- 80.00 | 23.62 |
| 4.170 | 6.357 | -2.187 | 68 | 1330 | | | 0.00- 2.00 | 1.76 |
| 4.170 | 6.357 | -2.187 | 69 | 75608 | | | 0.00- 0.00 | 28.76 |
| 4.170 | 6.357 | -2.187 | 70 | 408 | | | 0.00- 2.00 | 0.54 |
| 4.170 | 6.357 | -2.187 | 127 | 104440 | | | 10.00- 80.00 | 39.72 |
| 4.170 | 6.357 | -2.187 | 197 | 996 | | | 0.00- 2.00 | 0.38 |
| 4.170 | 6.357 | -2.187 | 199 | 17632 | | | 5.00- 9.00 | 6.71 |
| 4.170 | 6.357 | -2.187 | 275 | 79880 | | | 10.00- 60.00 | 30.38 |
| 4.170 | 6.357 | -2.187 | 365 | 10437 | | | 1.00- 100.00 | 3.97 |
| 4.170 | 6.357 | -2.187 | 441 | 53968 | | | 0.01- 99.99 | 74.32 |
| 4.170 | 6.357 | -2.187 | 442 | 367904 | | | 50.00- 150.00 | 139.93 |
| 4.170 | 6.357 | -2.187 | 443 | 72612 | | | 15.00- 24.00 | 19.74 |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 198 | 23.62 |
| 68 | Less than 2.00% of mass 69 | 0.51 ( 1.76) |
| 69 | Mass 69 relative abundance | 28.76 |
| 70 | Less than 2.00% of mass 69 | 0.16 ( 0.54) |
| 127 | 10.00 - 80.00% of mass 198 | 39.72 |
| 197 | Less than 2.00% of mass 198 | 0.38 |
| 199 | 5.00 - 9.00% of mass 198 | 6.71 |
| 275 | 10.00 - 60.00% of mass 198 | 30.38 |
| 365 | 1.00 - 100.00% of mass 198 | 3.97 |
| 441 | Present, but less than mass 443 | 20.53 |
| 442 | 50.00 - 150.00% of mass 198 | 139.93 |
| 443 | 15.00 - 24.00% of mass 442 | 27.62 ( 19.74) |

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 37.00 | 244 | 129.00 | 40624 | 208.00 | 2115 | 300.00 | 77 |
| 38.00 | 784 | 130.00 | 3575 | 209.00 | 787 | 301.00 | 225 |
| 39.00 | 4091 | 131.00 | 702 | 210.00 | 691 | 302.00 | 396 |
| 40.00 | 241 | 132.00 | 334 | 211.00 | 2619 | 303.00 | 2580 |
| 41.00 | 102 | 133.00 | 85 | 212.00 | 316 | 304.00 | 619 |
| 45.00 | 185 | 134.00 | 1114 | 213.00 | 196 | 308.00 | 261 |
| 47.00 | 77 | 135.00 | 3151 | 215.00 | 724 | 309.00 | 174 |
| 49.00 | 408 | 136.00 | 1211 | 216.00 | 1479 | 310.00 | 240 |
| 50.00 | 16528 | 137.00 | 1465 | 217.00 | 18280 | 312.00 | 105 |
| 51.00 | 62088 | 138.00 | 288 | 218.00 | 2273 | 313.00 | 118 |
| 52.00 | 3211 | 139.00 | 258 | 219.00 | 275 | 314.00 | 1045 |
| 53.00 | 86 | 140.00 | 581 | 221.00 | 13468 | 315.00 | 2330 |
| 55.00 | 354 | 141.00 | 5048 | 223.00 | 4413 | 316.00 | 1380 |
| 56.00 | 2225 | 142.00 | 1704 | 224.00 | 39488 | 317.00 | 214 |
| 57.00 | 4437 | 143.00 | 1145 | 225.00 | 9861 | 321.00 | 708 |
| 58.00 | 213 | 144.00 | 319 | 226.00 | 1237 | 322.00 | 502 |
| 59.00 | 93 | 145.00 | 259 | 227.00 | 15741 | 323.00 | 7637 |
| 61.00 | 820 | 146.00 | 847 | 228.00 | 2192 | 324.00 | 1248 |
| 62.00 | 996 | 147.00 | 2610 | 229.00 | 3406 | 325.00 | 83 |
| 63.00 | 2992 | 148.00 | 5531 | 230.00 | 654 | 326.00 | 213 |
| 64.00 | 404 | 149.00 | 1260 | 231.00 | 1395 | 327.00 | 1339 |
| 65.00 | 1489 | 150.00 | 306 | 232.00 | 263 | 328.00 | 739 |
| 66.00 | 77 | 151.00 | 689 | 233.00 | 369 | 329.00 | 197 |
| 68.00 | 1330 | 152.00 | 397 | 234.00 | 998 | 332.00 | 530 |
| 69.00 | 75608 | 153.00 | 1674 | 235.00 | 1288 | 333.00 | 729 |
| 70.00 | 408 | 154.00 | 1331 | 236.00 | 713 | 334.00 | 5116 |
| 73.00 | 520 | 155.00 | 2941 | 237.00 | 1314 | 335.00 | 1387 |
| 74.00 | 7472 | 156.00 | 4519 | 238.00 | 197 | 336.00 | 81 |
| 75.00 | 12234 | 157.00 | 943 | 239.00 | 654 | 339.00 | 89 |
| 76.00 | 4036 | 158.00 | 851 | 240.00 | 561 | 341.00 | 826 |
| 77.00 | 79680 | 159.00 | 842 | 241.00 | 1046 | 342.00 | 249 |
| 78.00 | 5168 | 160.00 | 1695 | 242.00 | 2012 | 346.00 | 1618 |
| 79.00 | 5702 | 161.00 | 2544 | 243.00 | 2294 | 347.00 | 364 |
| 80.00 | 4359 | 162.00 | 776 | 244.00 | 32624 | 351.00 | 166 |
| 81.00 | 6057 | 163.00 | 166 | 245.00 | 4479 | 352.00 | 2331 |
| 82.00 | 1737 | 164.00 | 285 | 246.00 | 5704 | 353.00 | 1469 |
| 83.00 | 1343 | 165.00 | 2024 | 247.00 | 1212 | 354.00 | 2530 |
| 84.00 | 162 | 166.00 | 1773 | 248.00 | 329 | 355.00 | 561 |
| 85.00 | 1154 | 167.00 | 10349 | 249.00 | 1270 | 359.00 | 260 |
| 86.00 | 1464 | 168.00 | 4423 | 250.00 | 278 | 364.00 | 112 |
| 87.00 | 753 | 169.00 | 868 | 251.00 | 337 | 365.00 | 10437 |
| 88.00 | 337 | 170.00 | 367 | 252.00 | 432 | 366.00 | 1414 |
| 89.00 | 75 | 171.00 | 514 | 253.00 | 740 | 367.00 | 75 |
| 91.00 | 1569 | 172.00 | 960 | 255.00 | 170688 | 370.00 | 233 |
| 92.00 | 1659 | 173.00 | 1497 | 256.00 | 25096 | 371.00 | 588 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 93.00 | 10069 | 174.00 | 2141 | 257.00 | 1983 | 372.00 | 4617 |
| 94.00 | 680 | 175.00 | 4519 | 258.00 | 8939 | 373.00 | 1106 |
| 95.00 | 92 | 176.00 | 1409 | 259.00 | 1582 | 383.00 | 1150 |
| 96.00 | 425 | 177.00 | 2174 | 260.00 | 250 | 384.00 | 378 |
| 97.00 | 199 | 178.00 | 726 | 261.00 | 243 | 385.00 | 83 |
| 98.00 | 7421 | 179.00 | 8742 | 264.00 | 295 | 390.00 | 634 |
| 99.00 | 5189 | 180.00 | 5928 | 265.00 | 3703 | 391.00 | 442 |
| 100.00 | 450 | 181.00 | 2765 | 266.00 | 604 | 392.00 | 339 |
| 101.00 | 3694 | 182.00 | 411 | 270.00 | 214 | 401.00 | 178 |
| 102.00 | 194 | 183.00 | 299 | 271.00 | 344 | 402.00 | 1827 |
| 103.00 | 1310 | 184.00 | 735 | 272.00 | 599 | 403.00 | 2559 |
| 104.00 | 2350 | 185.00 | 4557 | 273.00 | 5441 | 404.00 | 850 |
| 105.00 | 2071 | 186.00 | 34080 | 274.00 | 13783 | 405.00 | 78 |
| 106.00 | 852 | 187.00 | 9952 | 275.00 | 79880 | 415.00 | 111 |
| 107.00 | 28048 | 188.00 | 866 | 276.00 | 10609 | 421.00 | 2499 |
| 108.00 | 4375 | 189.00 | 2159 | 277.00 | 6056 | 422.00 | 2422 |
| 109.00 | 546 | 190.00 | 335 | 278.00 | 997 | 423.00 | 17496 |
| 110.00 | 51232 | 191.00 | 1054 | 279.00 | 109 | 424.00 | 3958 |
| 111.00 | 8170 | 192.00 | 2816 | 281.00 | 100 | 425.00 | 349 |
| 112.00 | 914 | 193.00 | 3142 | 282.00 | 278 | 435.00 | 169 |
| 113.00 | 342 | 194.00 | 666 | 283.00 | 828 | 436.00 | 426 |
| 116.00 | 1637 | 195.00 | 610 | 284.00 | 410 | 437.00 | 287 |
| 117.00 | 21584 | 196.00 | 8042 | 285.00 | 1021 | 438.00 | 177 |
| 118.00 | 1450 | 197.00 | 996 | 286.00 | 242 | 439.00 | 927 |
| 119.00 | 133 | 198.00 | 262912 | 289.00 | 253 | 441.00 | 53968 |
| 120.00 | 336 | 199.00 | 17632 | 290.00 | 222 | 442.00 | 367872 |
| 121.00 | 78 | 200.00 | 1329 | 291.00 | 150 | 443.00 | 72608 |
| 122.00 | 1884 | 201.00 | 1426 | 292.00 | 373 | 444.00 | 7175 |
| 123.00 | 3095 | 203.00 | 1983 | 293.00 | 1312 | 445.00 | 468 |
| 124.00 | 1181 | 204.00 | 9352 | 294.00 | 366 | | |
| 125.00 | 1276 | 205.00 | 16075 | 296.00 | 20920 | | |
| 127.00 | 104440 | 206.00 | 67752 | 297.00 | 2863 | | |
| 128.00 | 7946 | 207.00 | 8670 | 298.00 | 101 | | |

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 1

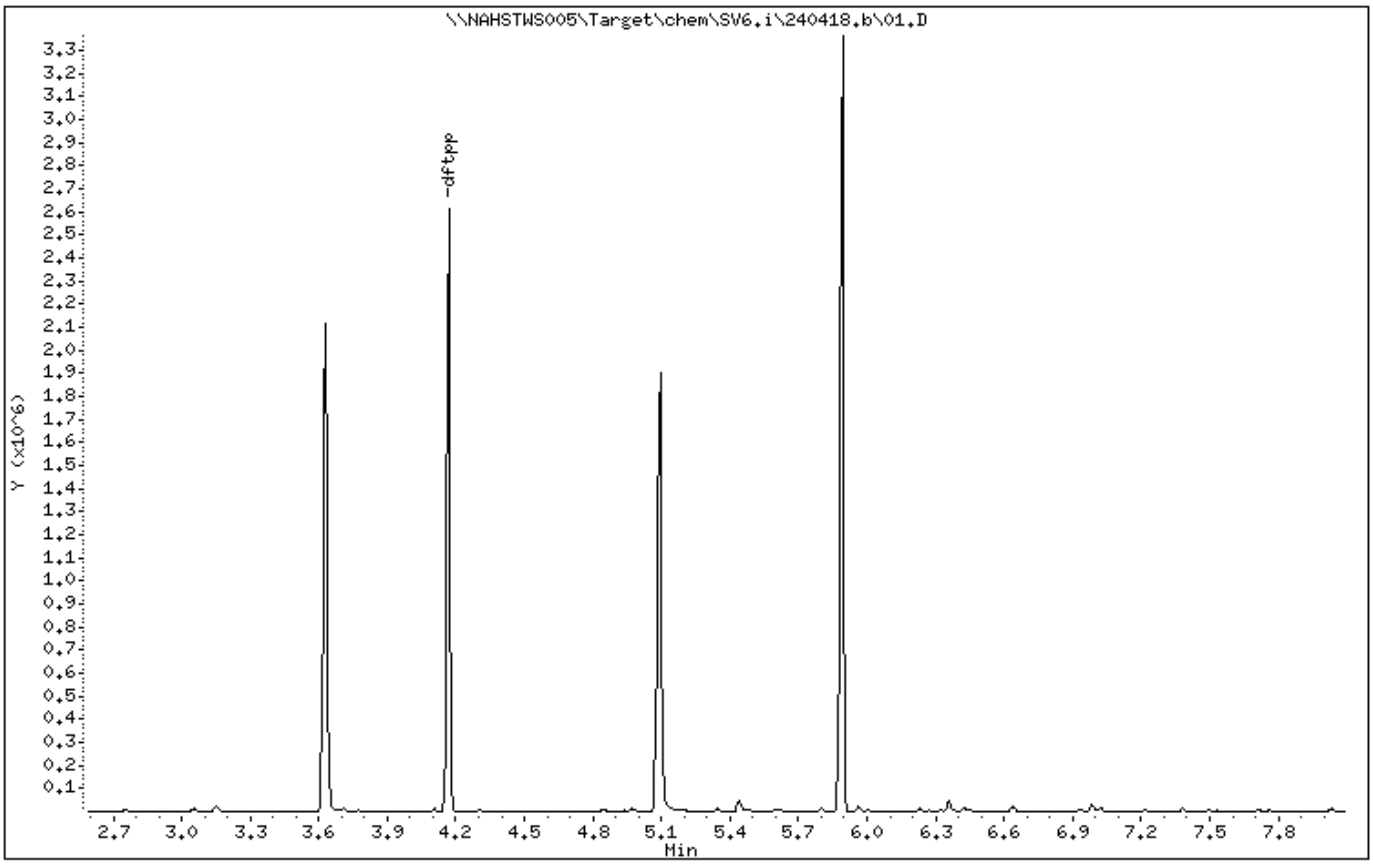
Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D



Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

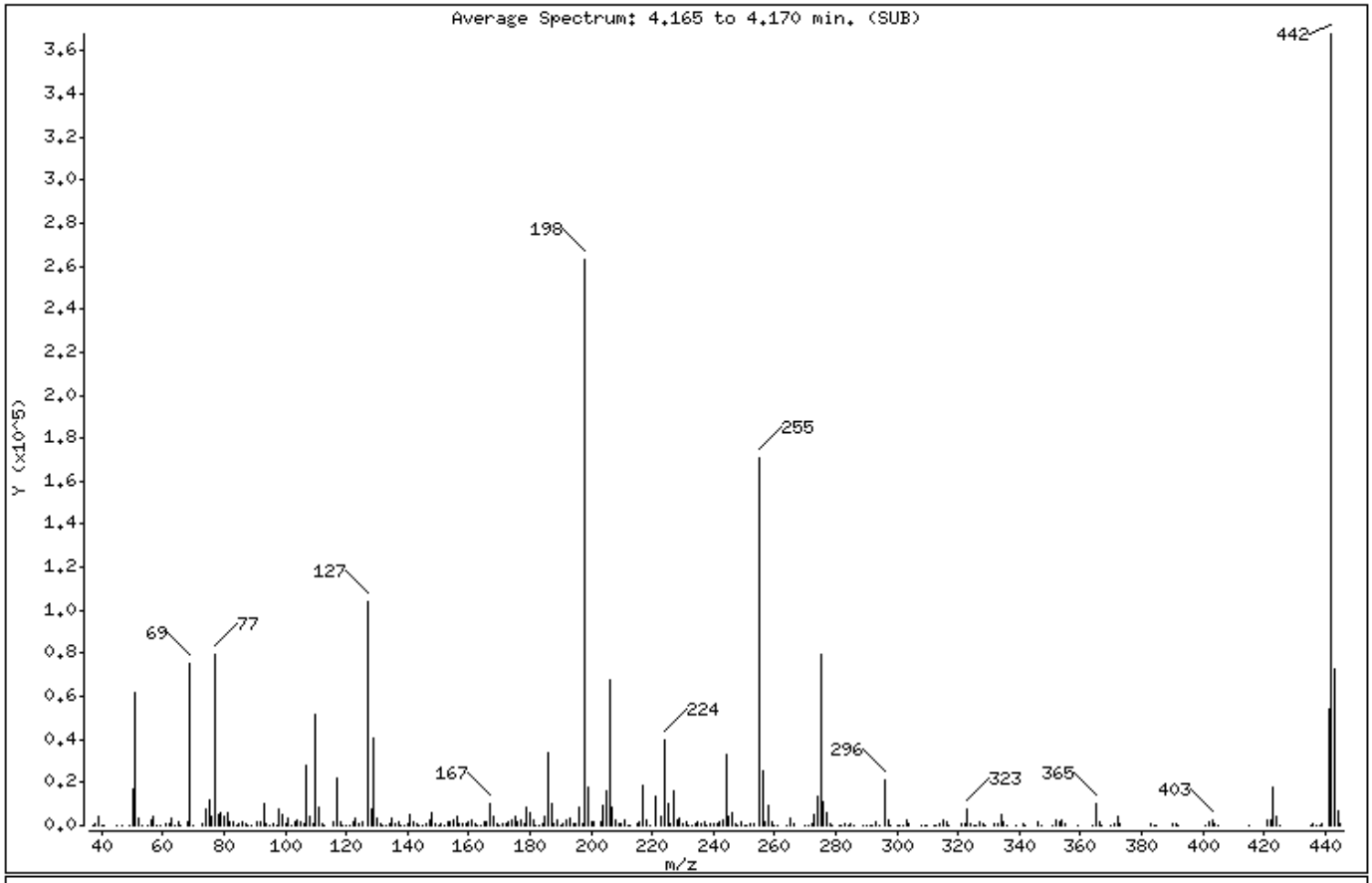
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 198 | 23.62 |
| 68 | Less than 2.00% of mass 69 | 0.51 ( 1.76) |
| 69 | Mass 69 relative abundance | 28.76 |
| 70 | Less than 2.00% of mass 69 | 0.16 ( 0.54) |
| 127 | 10.00 - 80.00% of mass 198 | 39.72 |
| 197 | Less than 2.00% of mass 198 | 0.38 |
| 199 | 5.00 - 9.00% of mass 198 | 6.71 |
| 275 | 10.00 - 60.00% of mass 198 | 30.38 |
| 365 | 1.00 - 100.00% of mass 198 | 3.97 |
| 441 | Present, but less than mass 443 | 20.53 |
| 442 | 50.00 - 150.00% of mass 198 | 139.93 |
| 443 | 15.00 - 24.00% of mass 442 | 27.62 ( 19.74) |

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 3

Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 37.00 | 244 | 129.00 | 40624 | 208.00 | 2115 | 300.00 | 77 |
| 38.00 | 784 | 130.00 | 3575 | 209.00 | 787 | 301.00 | 225 |
| 39.00 | 4091 | 131.00 | 702 | 210.00 | 691 | 302.00 | 396 |
| 40.00 | 241 | 132.00 | 334 | 211.00 | 2619 | 303.00 | 2580 |
| 41.00 | 102 | 133.00 | 85 | 212.00 | 316 | 304.00 | 619 |
| 45.00 | 185 | 134.00 | 1114 | 213.00 | 196 | 308.00 | 261 |
| 47.00 | 77 | 135.00 | 3151 | 215.00 | 724 | 309.00 | 174 |
| 49.00 | 408 | 136.00 | 1211 | 216.00 | 1479 | 310.00 | 240 |
| 50.00 | 16528 | 137.00 | 1465 | 217.00 | 18280 | 312.00 | 105 |
| 51.00 | 62088 | 138.00 | 288 | 218.00 | 2273 | 313.00 | 118 |
| 52.00 | 3211 | 139.00 | 258 | 219.00 | 275 | 314.00 | 1045 |
| 53.00 | 86 | 140.00 | 581 | 221.00 | 13468 | 315.00 | 2330 |
| 55.00 | 354 | 141.00 | 5048 | 223.00 | 4413 | 316.00 | 1380 |
| 56.00 | 2225 | 142.00 | 1704 | 224.00 | 39488 | 317.00 | 214 |
| 57.00 | 4437 | 143.00 | 1145 | 225.00 | 9861 | 321.00 | 708 |
| 58.00 | 213 | 144.00 | 319 | 226.00 | 1237 | 322.00 | 502 |
| 59.00 | 93 | 145.00 | 259 | 227.00 | 15741 | 323.00 | 7637 |
| 61.00 | 820 | 146.00 | 847 | 228.00 | 2192 | 324.00 | 1248 |
| 62.00 | 996 | 147.00 | 2610 | 229.00 | 3406 | 325.00 | 83 |
| 63.00 | 2992 | 148.00 | 5531 | 230.00 | 654 | 326.00 | 213 |
| 64.00 | 404 | 149.00 | 1260 | 231.00 | 1395 | 327.00 | 1339 |
| 65.00 | 1489 | 150.00 | 306 | 232.00 | 263 | 328.00 | 739 |
| 66.00 | 77 | 151.00 | 689 | 233.00 | 369 | 329.00 | 197 |
| 68.00 | 1330 | 152.00 | 397 | 234.00 | 998 | 332.00 | 530 |
| 69.00 | 75608 | 153.00 | 1674 | 235.00 | 1288 | 333.00 | 729 |
| 70.00 | 408 | 154.00 | 1331 | 236.00 | 713 | 334.00 | 5116 |
| 73.00 | 520 | 155.00 | 2941 | 237.00 | 1314 | 335.00 | 1387 |
| 74.00 | 7472 | 156.00 | 4519 | 238.00 | 197 | 336.00 | 81 |
| 75.00 | 12234 | 157.00 | 943 | 239.00 | 654 | 339.00 | 89 |
| 76.00 | 4036 | 158.00 | 851 | 240.00 | 561 | 341.00 | 826 |
| 77.00 | 79680 | 159.00 | 842 | 241.00 | 1046 | 342.00 | 249 |
| 78.00 | 5168 | 160.00 | 1695 | 242.00 | 2012 | 346.00 | 1618 |
| 79.00 | 5702 | 161.00 | 2544 | 243.00 | 2294 | 347.00 | 364 |
| 80.00 | 4359 | 162.00 | 776 | 244.00 | 32624 | 351.00 | 166 |
| 81.00 | 6057 | 163.00 | 166 | 245.00 | 4479 | 352.00 | 2331 |

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 4

Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 82.00 | 1737 | 164.00 | 285 | 246.00 | 5704 | 353.00 | 1469 |
| 83.00 | 1343 | 165.00 | 2024 | 247.00 | 1212 | 354.00 | 2530 |
| 84.00 | 162 | 166.00 | 1773 | 248.00 | 329 | 355.00 | 561 |
| 85.00 | 1154 | 167.00 | 10349 | 249.00 | 1270 | 359.00 | 260 |
| 86.00 | 1464 | 168.00 | 4423 | 250.00 | 278 | 364.00 | 112 |
| 87.00 | 753 | 169.00 | 868 | 251.00 | 337 | 365.00 | 10437 |
| 88.00 | 337 | 170.00 | 367 | 252.00 | 432 | 366.00 | 1414 |
| 89.00 | 75 | 171.00 | 514 | 253.00 | 740 | 367.00 | 75 |
| 91.00 | 1569 | 172.00 | 960 | 255.00 | 170688 | 370.00 | 233 |
| 92.00 | 1659 | 173.00 | 1497 | 256.00 | 25096 | 371.00 | 588 |
| 93.00 | 10069 | 174.00 | 2141 | 257.00 | 1983 | 372.00 | 4617 |
| 94.00 | 680 | 175.00 | 4519 | 258.00 | 8939 | 373.00 | 1106 |
| 95.00 | 92 | 176.00 | 1409 | 259.00 | 1582 | 383.00 | 1150 |
| 96.00 | 425 | 177.00 | 2174 | 260.00 | 250 | 384.00 | 378 |
| 97.00 | 199 | 178.00 | 726 | 261.00 | 243 | 385.00 | 83 |
| 98.00 | 7421 | 179.00 | 8742 | 264.00 | 295 | 390.00 | 634 |
| 99.00 | 5189 | 180.00 | 5928 | 265.00 | 3703 | 391.00 | 442 |
| 100.00 | 450 | 181.00 | 2765 | 266.00 | 604 | 392.00 | 339 |
| 101.00 | 3694 | 182.00 | 411 | 270.00 | 214 | 401.00 | 178 |
| 102.00 | 194 | 183.00 | 299 | 271.00 | 344 | 402.00 | 1827 |
| 103.00 | 1310 | 184.00 | 735 | 272.00 | 599 | 403.00 | 2559 |
| 104.00 | 2350 | 185.00 | 4557 | 273.00 | 5441 | 404.00 | 850 |
| 105.00 | 2071 | 186.00 | 34080 | 274.00 | 13783 | 405.00 | 78 |
| 106.00 | 852 | 187.00 | 9952 | 275.00 | 79880 | 415.00 | 111 |
| 107.00 | 28048 | 188.00 | 866 | 276.00 | 10609 | 421.00 | 2499 |
| 108.00 | 4375 | 189.00 | 2159 | 277.00 | 6056 | 422.00 | 2422 |
| 109.00 | 546 | 190.00 | 335 | 278.00 | 997 | 423.00 | 17496 |
| 110.00 | 51232 | 191.00 | 1054 | 279.00 | 109 | 424.00 | 3958 |
| 111.00 | 8170 | 192.00 | 2816 | 281.00 | 100 | 425.00 | 349 |
| 112.00 | 914 | 193.00 | 3142 | 282.00 | 278 | 435.00 | 169 |
| 113.00 | 342 | 194.00 | 666 | 283.00 | 828 | 436.00 | 426 |
| 116.00 | 1637 | 195.00 | 610 | 284.00 | 410 | 437.00 | 287 |
| 117.00 | 21584 | 196.00 | 8042 | 285.00 | 1021 | 438.00 | 177 |
| 118.00 | 1450 | 197.00 | 996 | 286.00 | 242 | 439.00 | 927 |
| 119.00 | 133 | 198.00 | 262912 | 289.00 | 253 | 441.00 | 53968 |

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 5

Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 120.00 | 336 | 199.00 | 17632 | 290.00 | 222 | 442.00 | 367872 |
| 121.00 | 78 | 200.00 | 1329 | 291.00 | 150 | 443.00 | 72608 |
| 122.00 | 1884 | 201.00 | 1426 | 292.00 | 373 | 444.00 | 7175 |
| 123.00 | 3095 | 203.00 | 1983 | 293.00 | 1312 | 445.00 | 468 |
| 124.00 | 1181 | 204.00 | 9352 | 294.00 | 366 | | |
| 125.00 | 1276 | 205.00 | 16075 | 296.00 | 20920 | | |
| 127.00 | 104440 | 206.00 | 67752 | 297.00 | 2863 | | |
| 128.00 | 7946 | 207.00 | 8670 | 298.00 | 101 | | |

Data File : \\nahstws005\target\chem\sv6.i\240418.b\01.d
Inj Date  : 18-APR-2024 10:39
InstruID  : SV6.i
LabSampID : DFTPP

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 18-APR-2024 12:24
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 12:24 Cal File: 03A.D
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | AMOUNTS ON-COL ( NG) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 2.089 | 2.089 | (1.000) | 3251 | 0.10000 | (aQM) |
| * 45 Naphthalene-d8 | 136 | 3.076 | 3.076 | (1.000) | 10577 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.497 | 2.502 | (0.812) | 2161 | 0.08000 | 0.06806(M) |
| * 86 Acenaphthene-d10 | 164 | 4.665 | 4.671 | (1.000) | 6678 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 4.064 | 4.067 | (0.871) | 6691 | 0.08000 | 0.06554(M) |
| * 126 Phenanthrene-d10 | 188 | 6.066 | 6.065 | (1.000) | 13232 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 8.604 | 8.599 | (1.000) | 12125 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.636 | 7.630 | (0.887) | 14251 | 0.08000 | 0.05769(M) |
| * 198 Perylene-d12 | 264 | 10.195 | 10.189 | (1.000) | 11098 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 0.834 | 0.820 | (0.400) | 503 | 0.08000 | 0.07223(QM) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D



Date : 18-APR-2024 12:24

Client ID: 14DX-0.08

Instrument: SV6.i

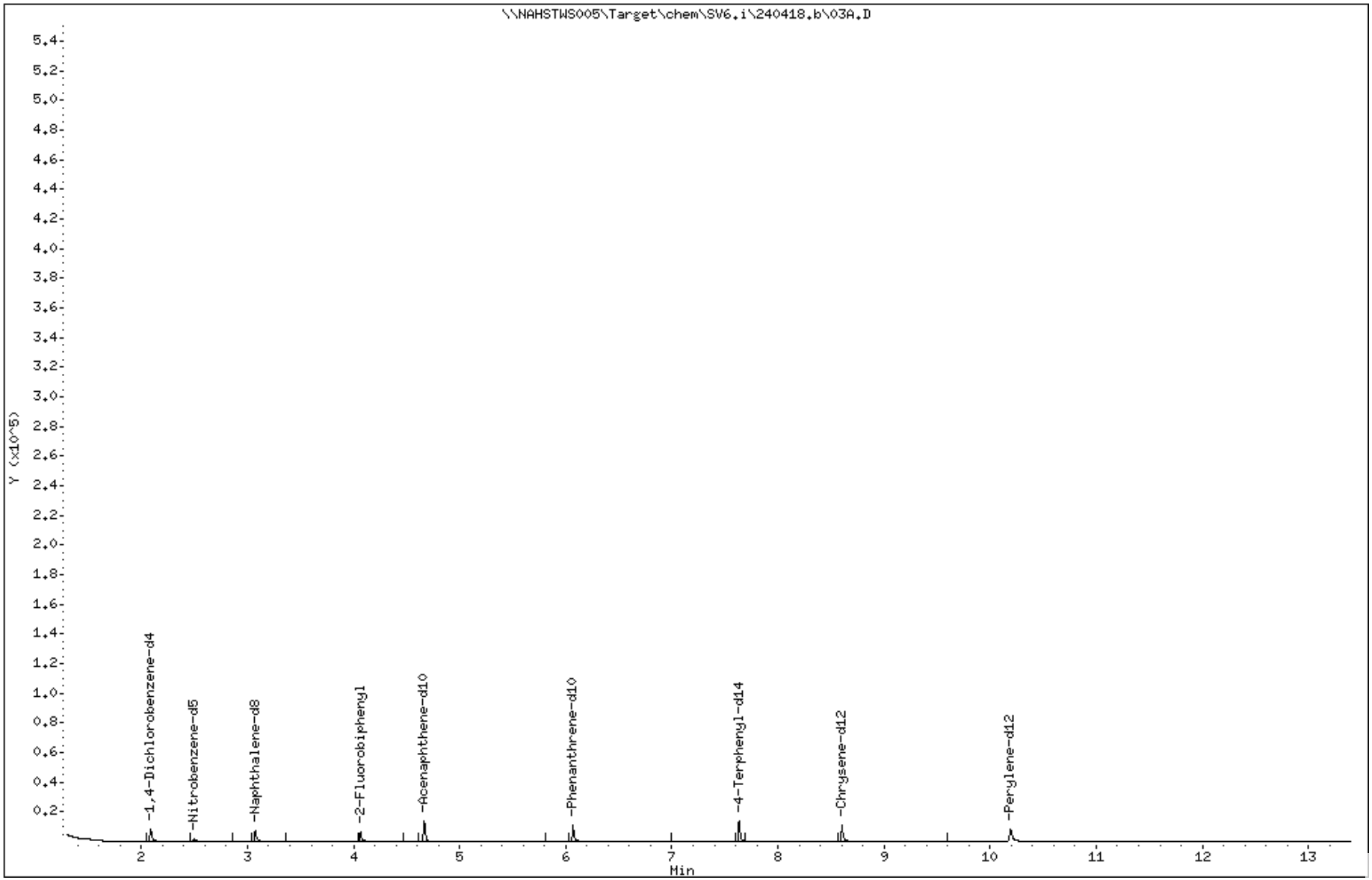
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

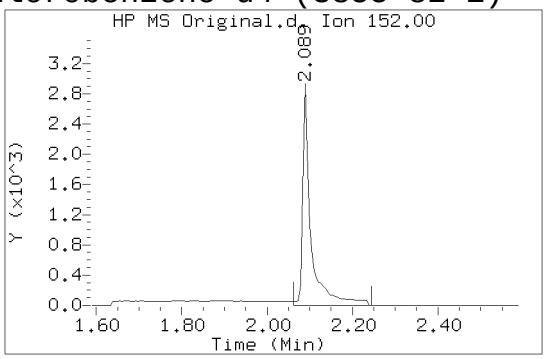


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

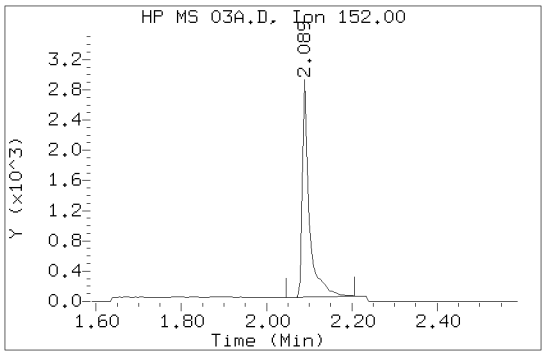
## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

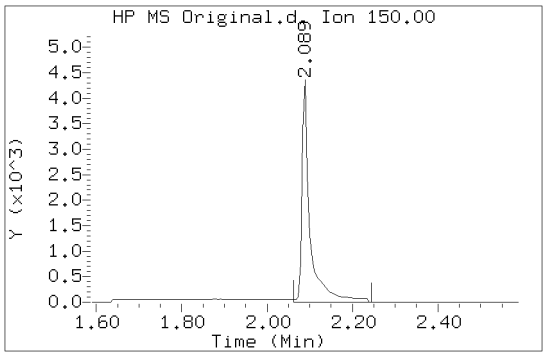
BEFORE
MASS
152
AREA
3915
HEIGHT
2934
18-Apr-2024
12:42
ALSHS
Server



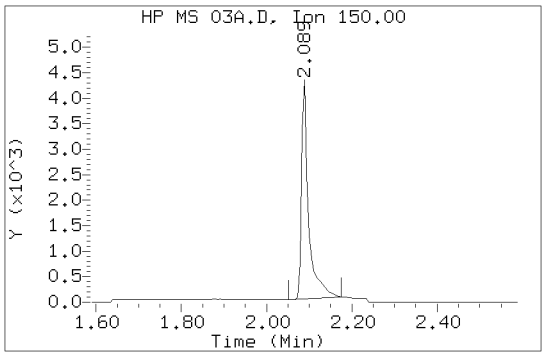

AFTER
MASS
152
AREA
3251
HEIGHT
2876
28-May-2024
13:05



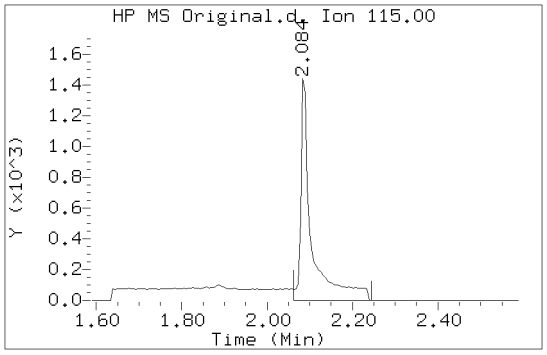

BEFORE
MASS
150
AREA
5788
HEIGHT
4359
18-Apr-2024
12:42
ALSHS
Server



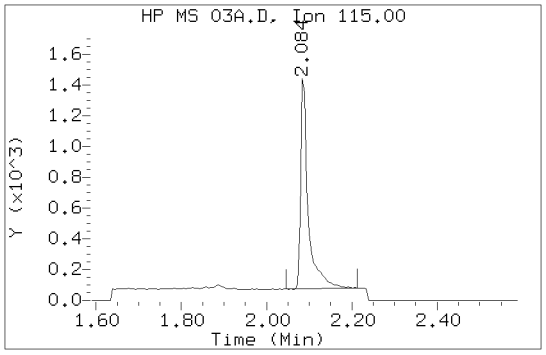

AFTER
MASS
150
AREA
4924
HEIGHT
4290
28-May-2024
13:05




BEFORE
MASS
115
AREA
2519
HEIGHT
1442
18-Apr-2024
12:42
ALSHS
Server



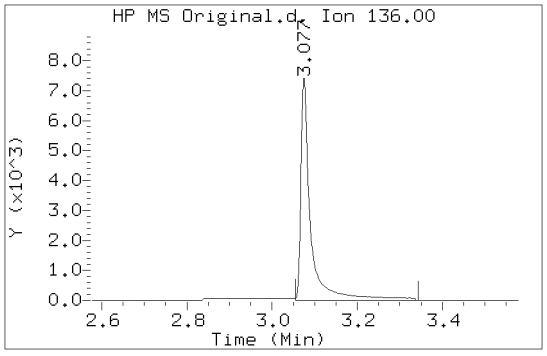

AFTER
MASS
115
AREA
1685
HEIGHT
1365
28-May-2024
13:05



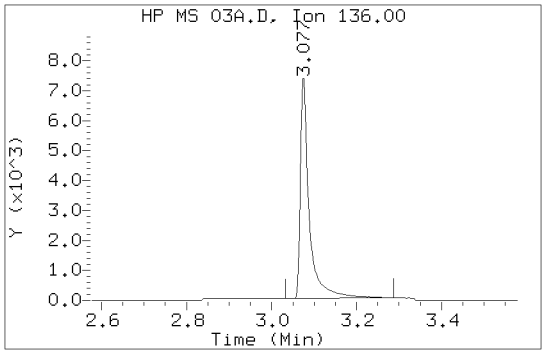

## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
11842
HEIGHT
7402
18-Apr-2024
12:42
ALSHS
Server




AFTER
MASS
136
AREA
10577
HEIGHT
7340
28-May-2024
13:05

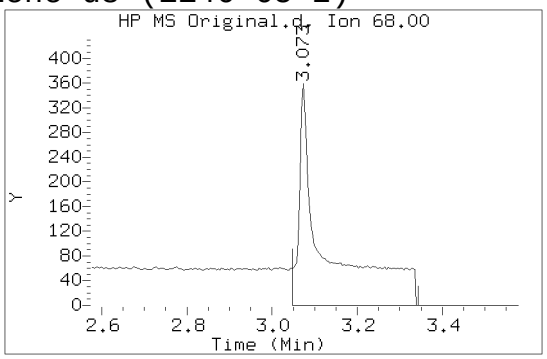


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

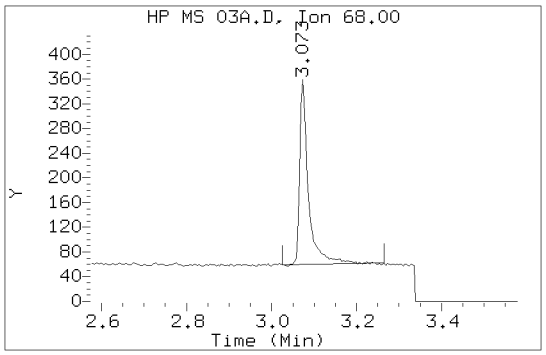
## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1473
HEIGHT
359
18-Apr-2024
12:42
ALSHS
Server



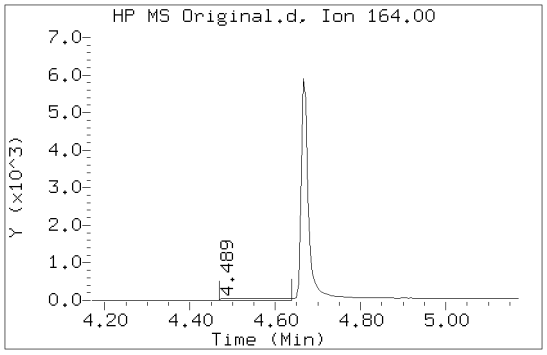

AFTER
MASS
68
AREA
417
HEIGHT
299
28-May-2024
13:05



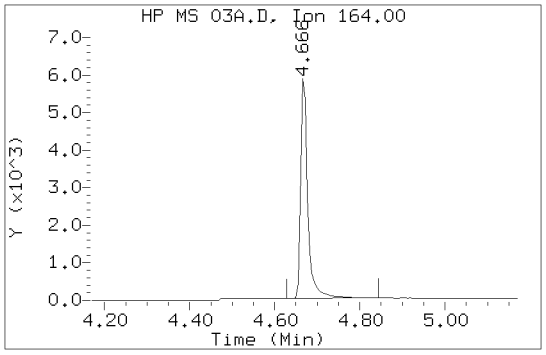

## Acenaphthene-d10 (15067-26-2)

Reason Code:

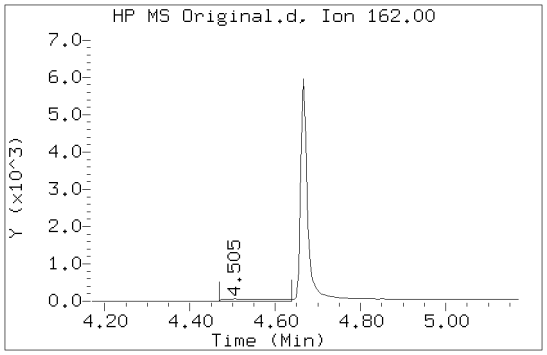
BEFORE
MASS
164
AREA
527
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server



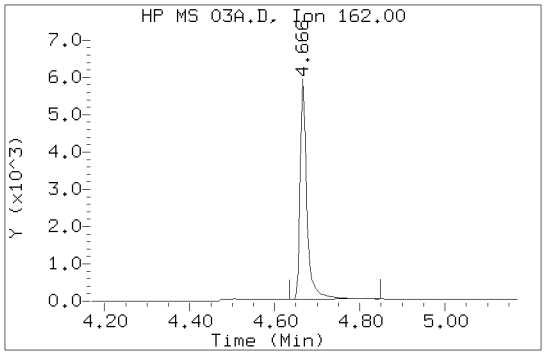

AFTER
MASS
164
AREA
6678
HEIGHT
5851
28-May-2024
13:05



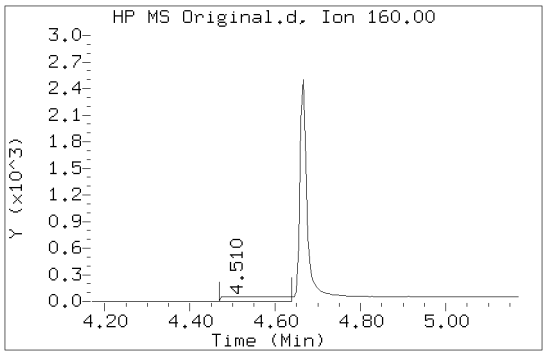

BEFORE
MASS
162
AREA
540
HEIGHT
61
18-Apr-2024
12:42
ALSHS
Server



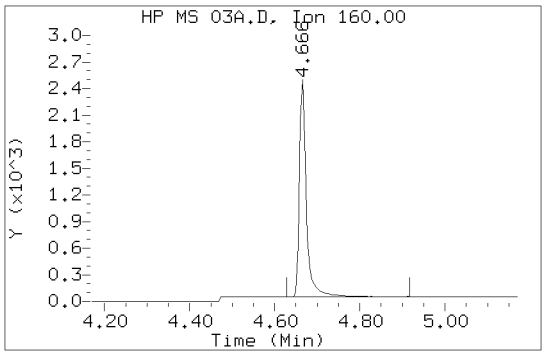

AFTER
MASS
162
AREA
6371
HEIGHT
5906
28-May-2024
13:05




BEFORE
MASS
160
AREA
507
HEIGHT
51
18-Apr-2024
12:42
ALSHS
Server




AFTER
MASS
160
AREA
2763
HEIGHT
2449
28-May-2024
13:05



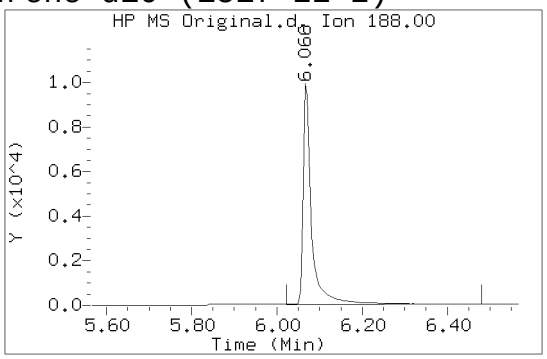
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

## Phenanthrene-d10 (1517-22-2)

Reason Code:

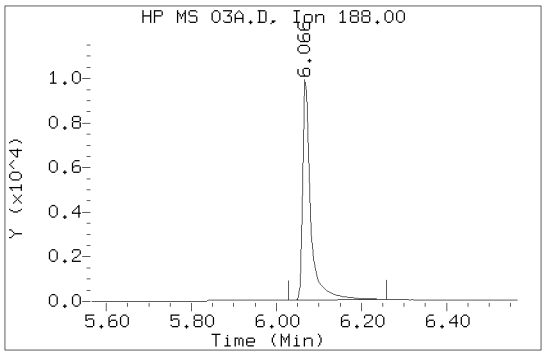
BEFORE

MASS
188
AREA
14212
HEIGHT
9923
18-Apr-2024
12:42
ALSHS
Server



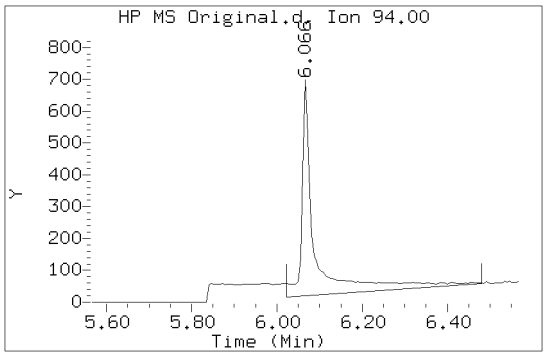

AFTER

MASS
188
AREA
13232
HEIGHT
9886
28-May-2024
13:05



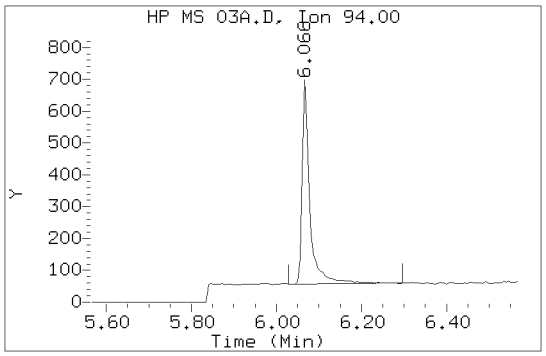

BEFORE

MASS
94
AREA
1408
HEIGHT
677
18-Apr-2024
12:42
ALSHS
Server



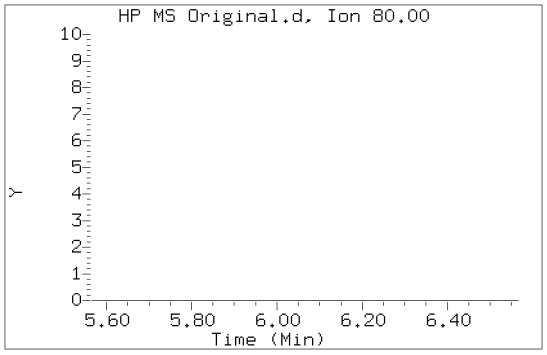

AFTER

MASS
94
AREA
802
HEIGHT
640
28-May-2024
13:05



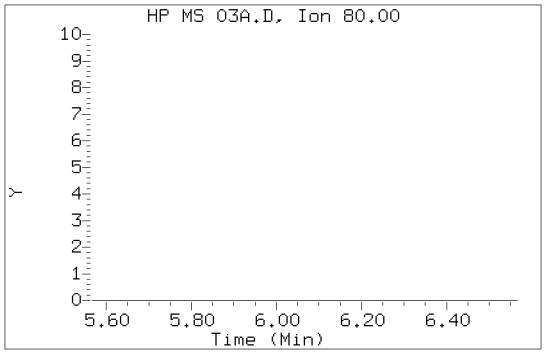

BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server




AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

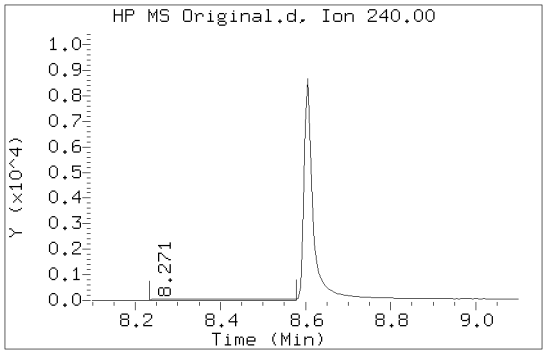



## Chrysene-d12 (1719-03-5)

Reason Code:

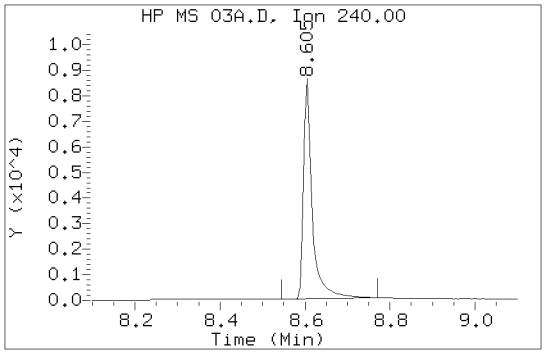
BEFORE

MASS
240
AREA
1046
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server




AFTER

MASS
240
AREA
12125
HEIGHT
8606
28-May-2024
13:05



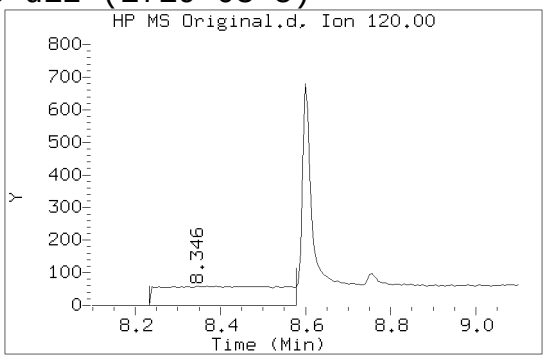
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

## Chrysene-d12 (1719-03-5)

Reason Code:

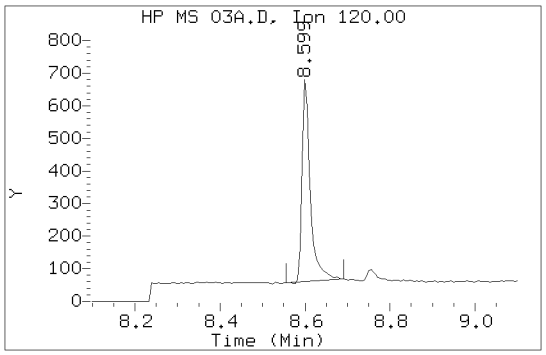
BEFORE

MASS
120
AREA
1175
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



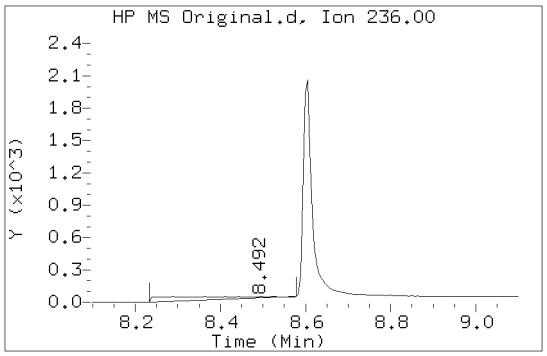

AFTER

MASS
120
AREA
821
HEIGHT
619
28-May-2024
13:05



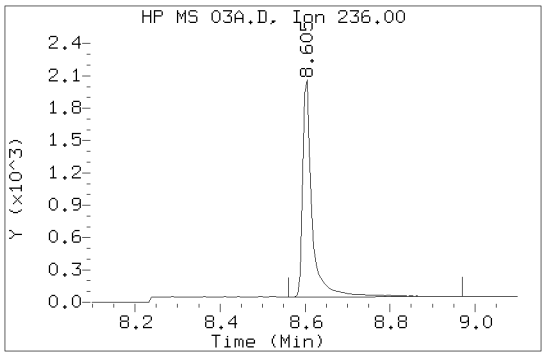

BEFORE

MASS
236
AREA
485
HEIGHT
13
18-Apr-2024
12:42
ALSHS
Server




AFTER

MASS
236
AREA
3066
HEIGHT
2012
28-May-2024
13:05

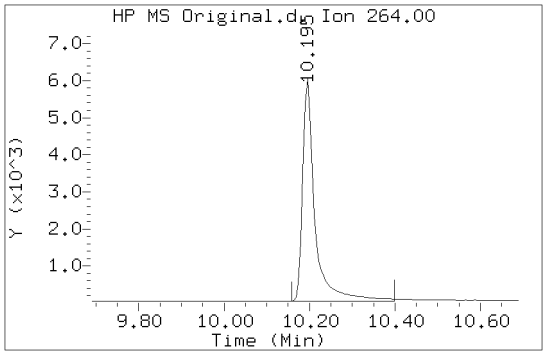



## Perylene-d12 (1520-96-3)

Reason Code:

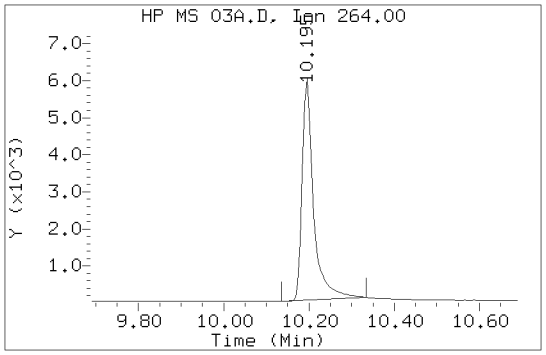
BEFORE

MASS
264
AREA
11914
HEIGHT
5992
18-Apr-2024
12:42
ALSHS
Server



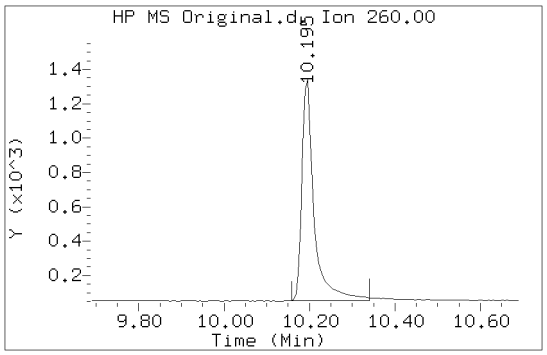

AFTER

MASS
264
AREA
11098
HEIGHT
5966
28-May-2024
13:05



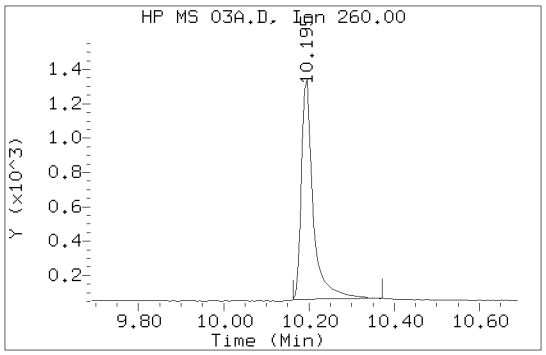

BEFORE

MASS
260
AREA
2543
HEIGHT
1286
18-Apr-2024
12:42
ALSHS
Server




AFTER

MASS
260
AREA
2442
HEIGHT
1278
28-May-2024
13:05



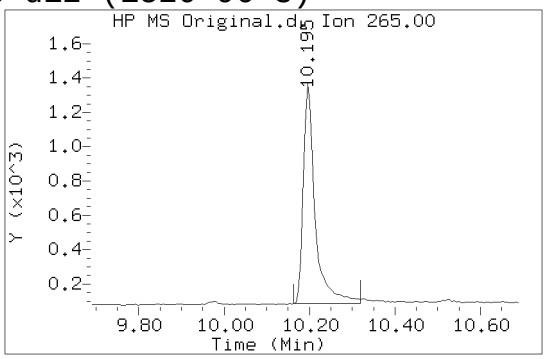
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

## Perylene-d12 (1520-96-3)

Reason Code:

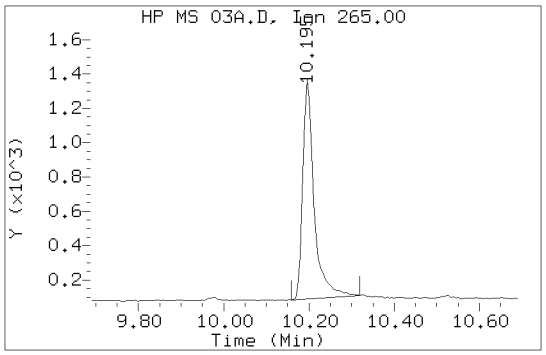
**BEFORE**

MASS
265
AREA
2459
HEIGHT
1281
18-Apr-2024
12:42
ALSHS
Server




**AFTER**

MASS
265
AREA
2359
HEIGHT
1277
28-May-2024
13:05

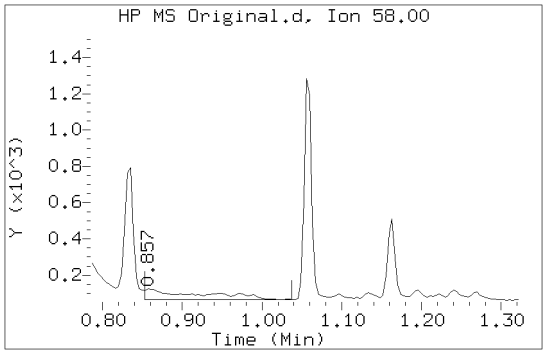



## 1,4-Dioxane ()

Reason Code:

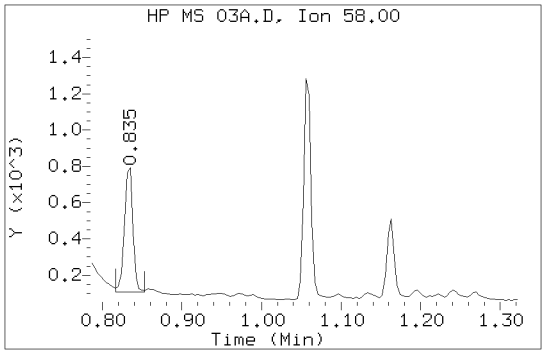
**BEFORE**

MASS
58
AREA
288
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



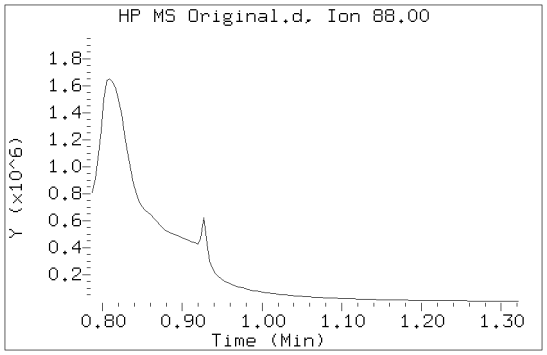

**AFTER**

MASS
58
AREA
503
HEIGHT
686
28-May-2024
13:05



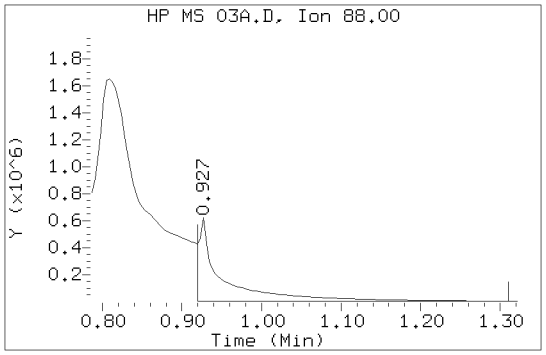

**BEFORE**

MASS
88
AREA
1284716
HEIGHT
617517
18-Apr-2024
12:42
ALSHS
Server




**AFTER**

MASS
88
AREA
1274387
HEIGHT
617087
28-May-2024
13:05

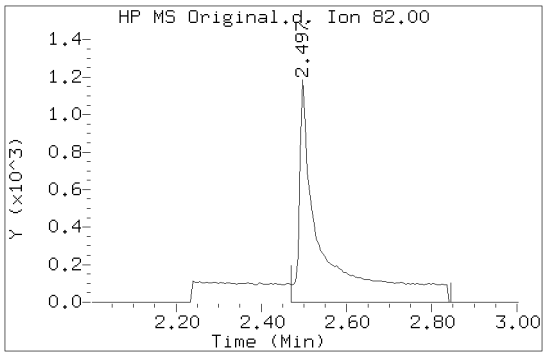



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

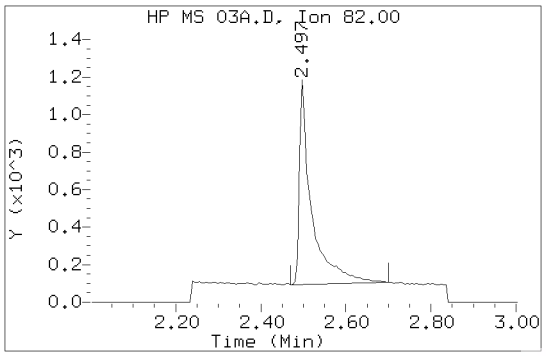
**BEFORE**

MASS
82
AREA
4330
HEIGHT
1185
18-Apr-2024
12:42
ALSHS
Server




**AFTER**

MASS
82
AREA
2161
HEIGHT
1090
28-May-2024
13:05

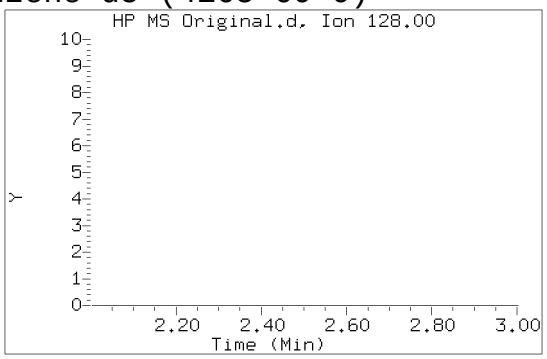


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

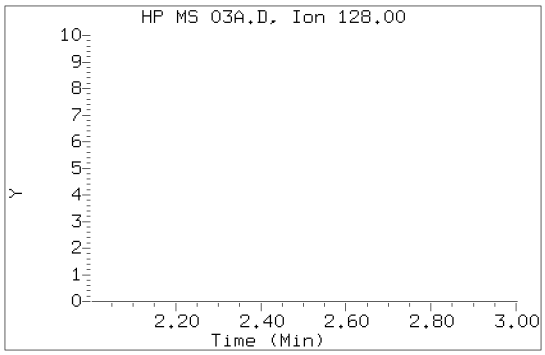
## Nitrobenzene-d5 (4165-60-0)

Reason Code:

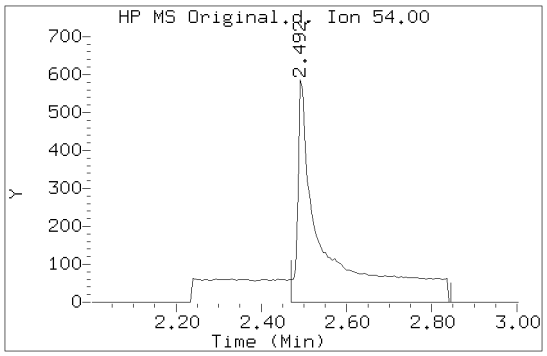
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server



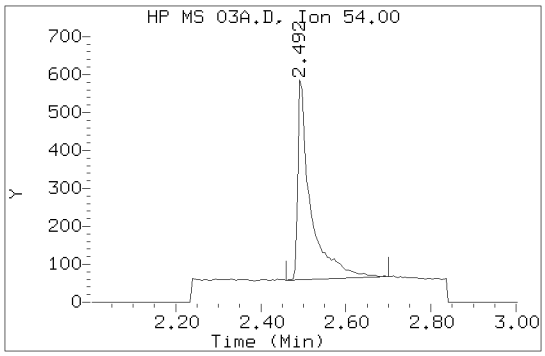

AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05




BEFORE
MASS
54
AREA
2489
HEIGHT
586
18-Apr-2024
12:42
ALSHS
Server



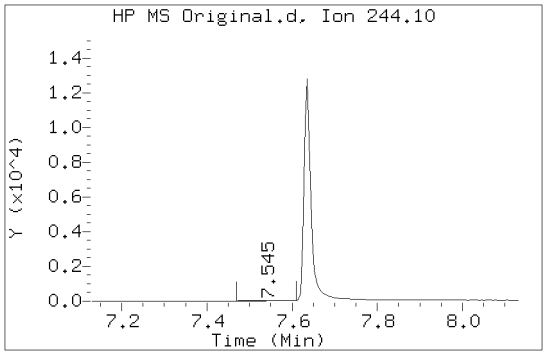

AFTER
MASS
54
AREA
1100
HEIGHT
526
28-May-2024
13:05



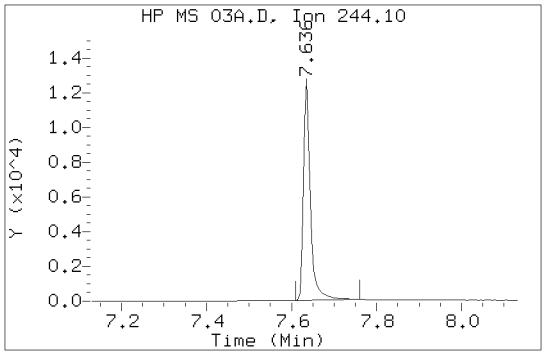

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

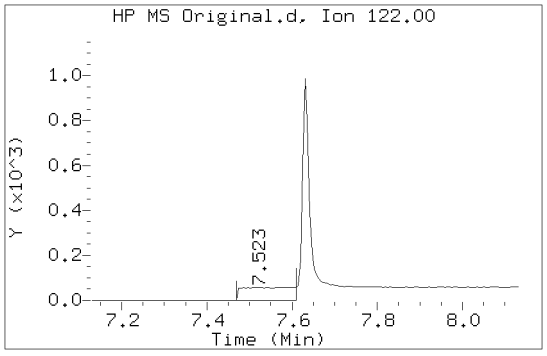
BEFORE
MASS
244.1
AREA
193
HEIGHT
23
18-Apr-2024
12:42
ALSHS
Server



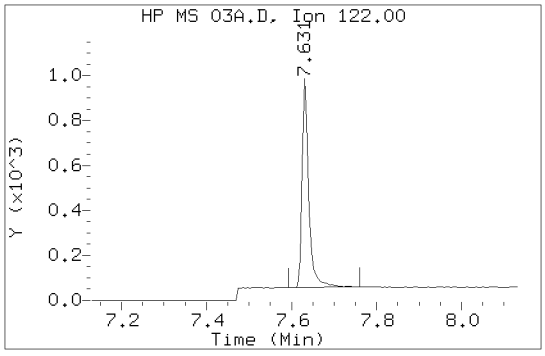

AFTER
MASS
244.1
AREA
14251
HEIGHT
12746
28-May-2024
13:05




BEFORE
MASS
122
AREA
473
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server




AFTER
MASS
122
AREA
1008
HEIGHT
928
28-May-2024
13:05



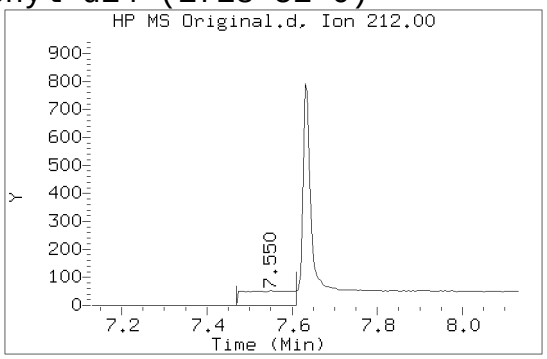
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

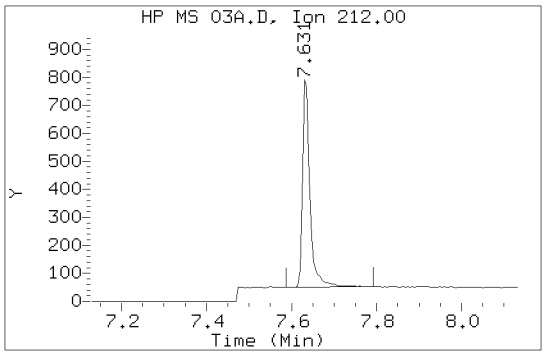
**BEFORE**

MASS
212
AREA
422
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server




**AFTER**

MASS
212
AREA
890
HEIGHT
741
28-May-2024
13:05

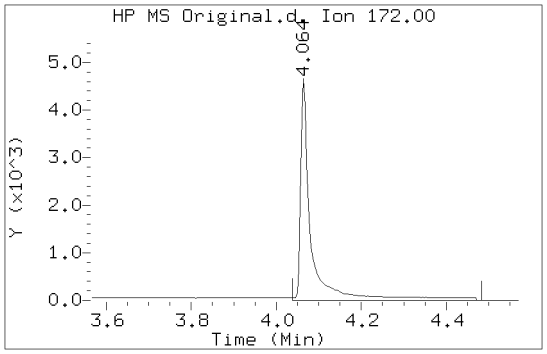



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

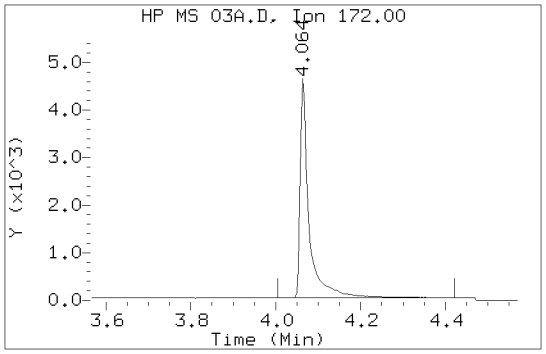
**BEFORE**

MASS
172
AREA
8151
HEIGHT
4659
18-Apr-2024
12:42
ALSHS
Server



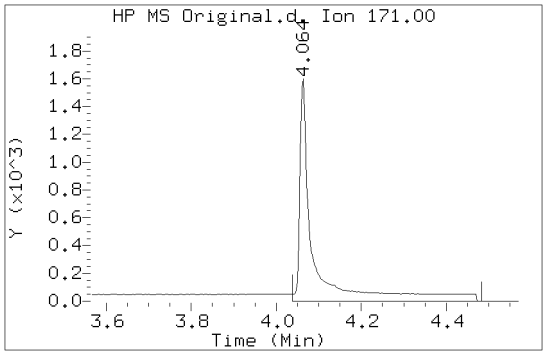

**AFTER**

MASS
172
AREA
6691
HEIGHT
4608
28-May-2024
13:05



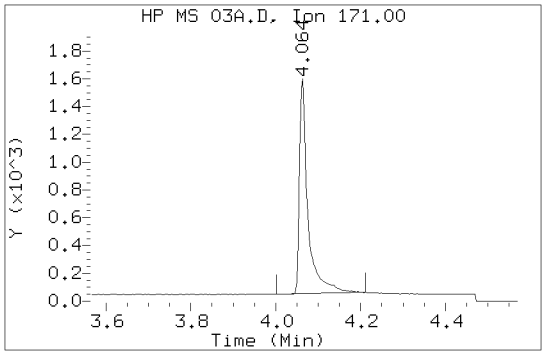

**BEFORE**

MASS
171
AREA
3618
HEIGHT
1599
18-Apr-2024
12:42
ALSHS
Server




**AFTER**

MASS
171
AREA
2124
HEIGHT
1543
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
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Inj Date : 18-APR-2024 12:49
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 12:49 Cal File: 04.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | AMOUNTS ON-COL ( NG) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 2.089 | 2.089 | (1.000) | 3248 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 3.073 | 3.076 | (1.000) | 10308 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.497 | 2.502 | (0.813) | 262 | 0.01000 | 0.008466(M) |
| * 86 Acenaphthene-d10 | 164 | 4.665 | 4.671 | (1.000) | 6420 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 4.064 | 4.067 | (0.871) | 1018 | 0.01000 | 0.01037(M) |
| * 126 Phenanthrene-d10 | 188 | 6.066 | 6.065 | (1.000) | 12867 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 8.604 | 8.599 | (1.000) | 11333 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.636 | 7.630 | (0.887) | 2521 | 0.01000 | 0.01092(M) |
| * 198 Perylene-d12 | 264 | 10.195 | 10.189 | (1.000) | 12071 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 0.838 | 0.820 | (0.401) | 87 | 0.01000 | 0.01250(QM) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D



Date : 18-APR-2024 12:49

Client ID:

Instrument: SV6.i

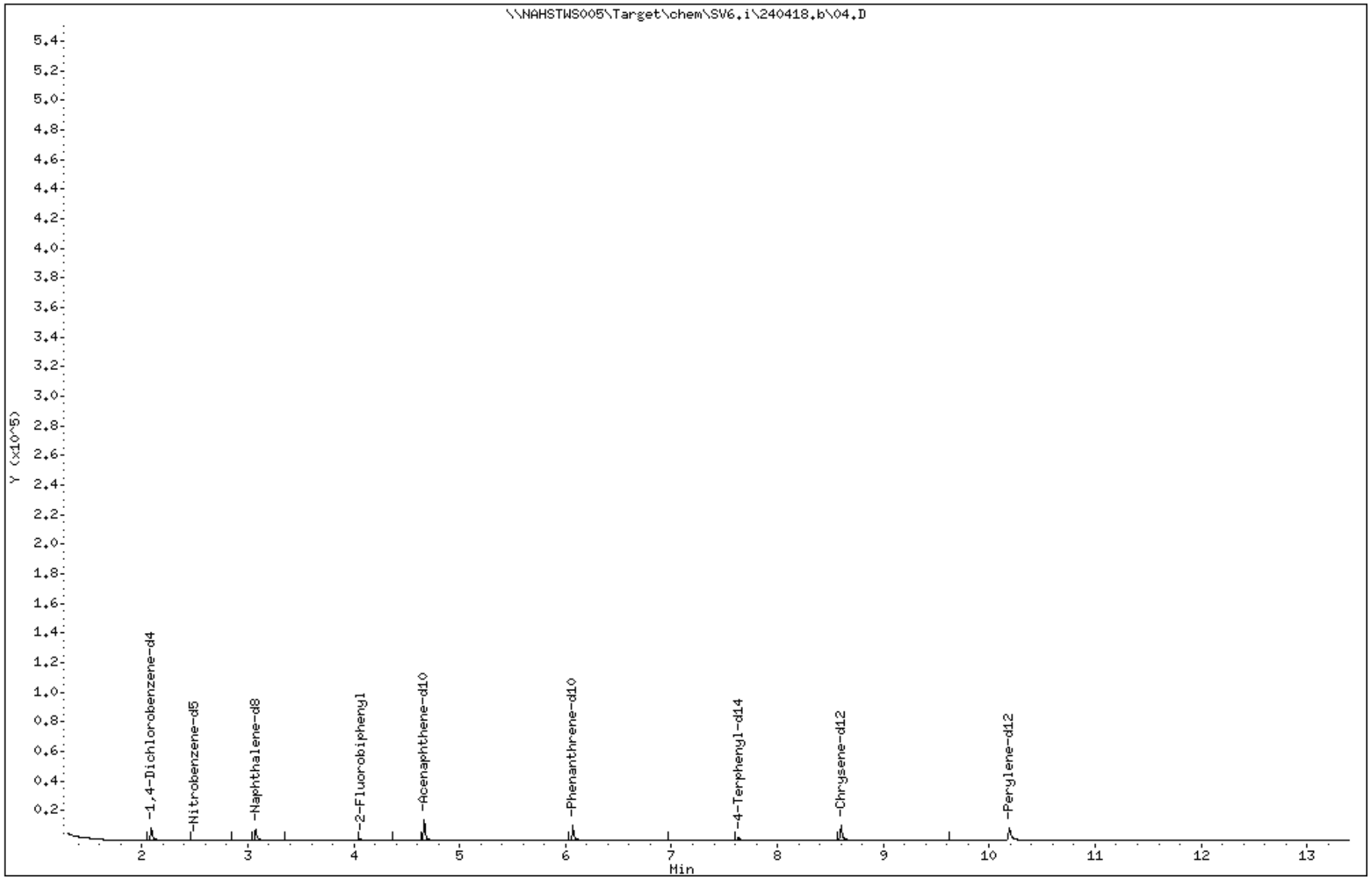
Sample Info: 14DX-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



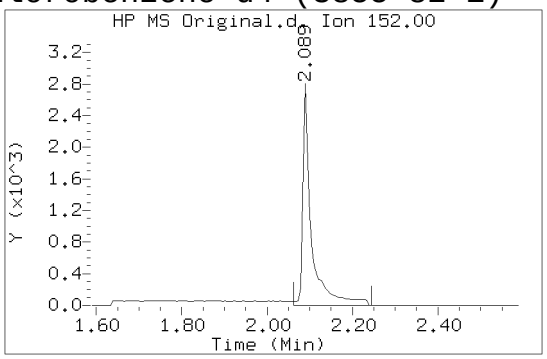
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Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

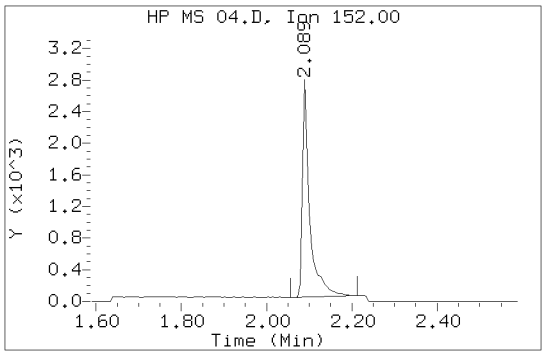
BEFORE

MASS
152
AREA
3912
HEIGHT
2804
18-Apr-2024
13:10
ALSHS
Server



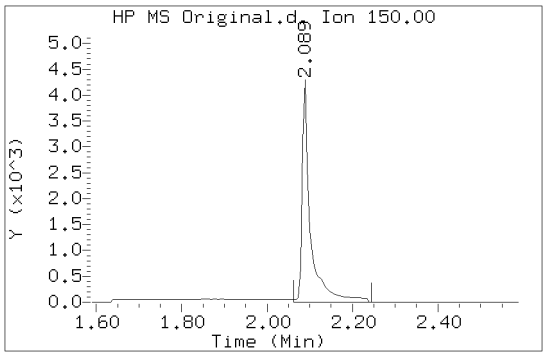

AFTER

MASS
152
AREA
3248
HEIGHT
2748
28-May-2024
13:05



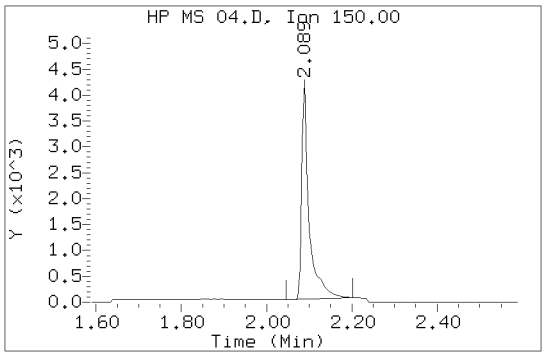

BEFORE

MASS
150
AREA
5830
HEIGHT
4294
18-Apr-2024
13:10
ALSHS
Server



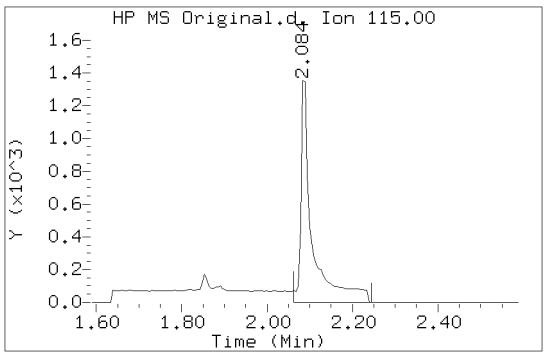

AFTER

MASS
150
AREA
5043
HEIGHT
4231
28-May-2024
13:05



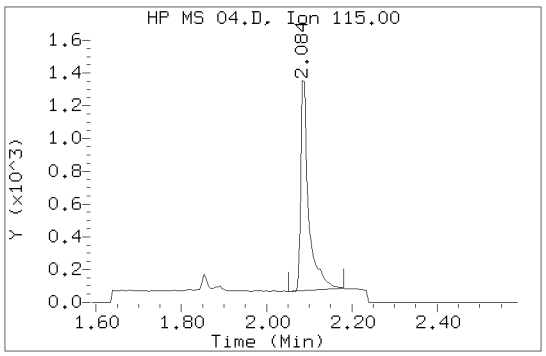

BEFORE

MASS
115
AREA
2502
HEIGHT
1353
18-Apr-2024
13:10
ALSHS
Server




AFTER

MASS
115
AREA
1663
HEIGHT
1280
28-May-2024
13:05

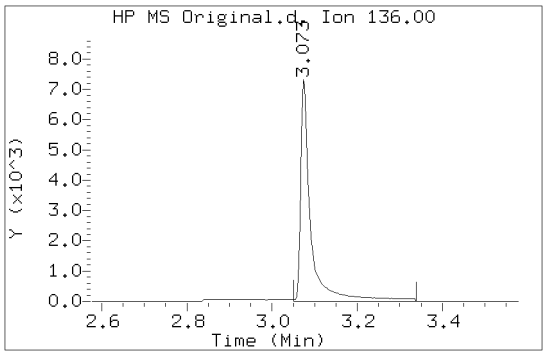



## Naphthalene-d8 (1146-65-2)

Reason Code:

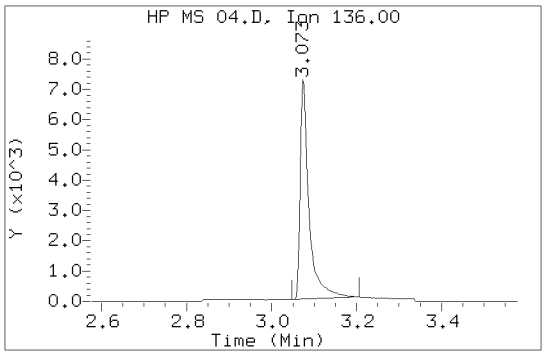
BEFORE

MASS
136
AREA
12033
HEIGHT
7318
18-Apr-2024
13:10
ALSHS
Server




AFTER

MASS
136
AREA
10308
HEIGHT
7248
28-May-2024
13:05



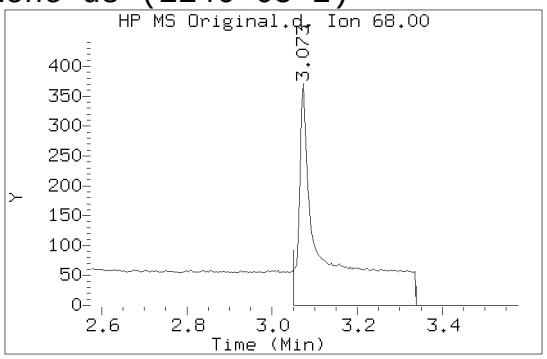
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Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

## Naphthalene-d8 (1146-65-2)

Reason Code:

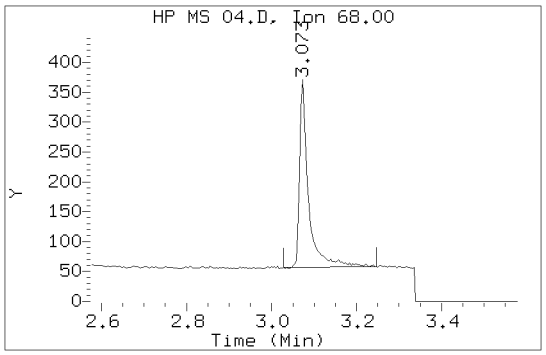
**BEFORE**

MASS
68
AREA
1444
HEIGHT
371
18-Apr-2024
13:10
ALSHS
Server




**AFTER**

MASS
68
AREA
448
HEIGHT
313
28-May-2024
13:05

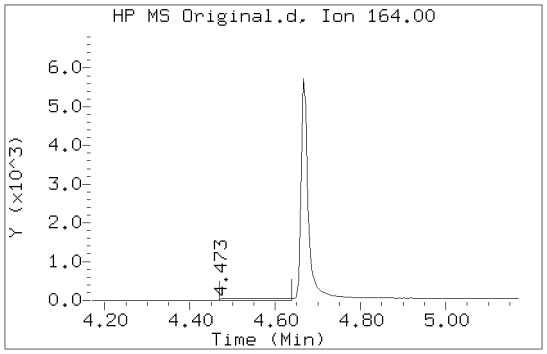



## Acenaphthene-d10 (15067-26-2)

Reason Code:

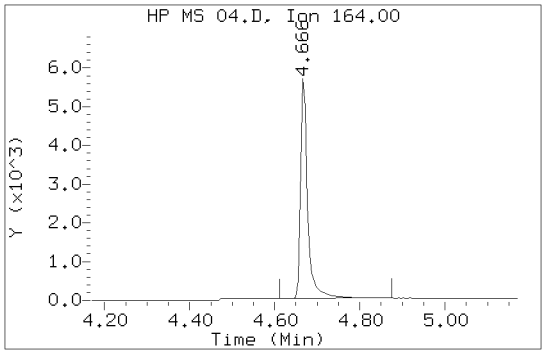
**BEFORE**

MASS
164
AREA
515
HEIGHT
52
18-Apr-2024
13:10
ALSHS
Server



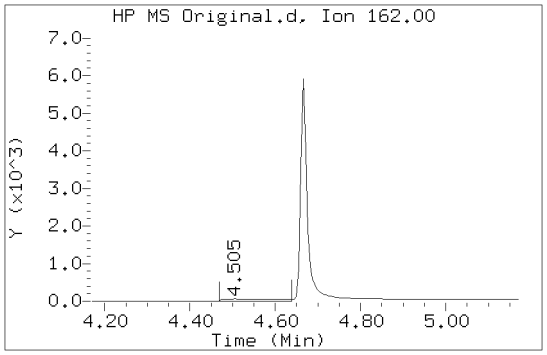

**AFTER**

MASS
164
AREA
6420
HEIGHT
5670
28-May-2024
13:05



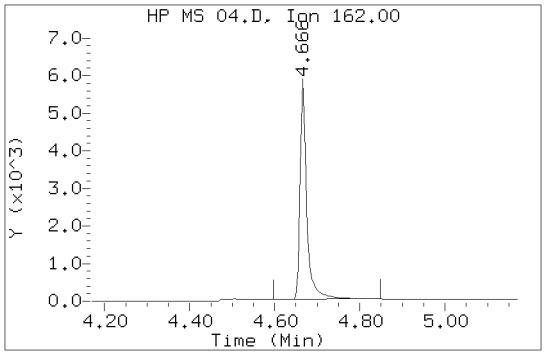

**BEFORE**

MASS
162
AREA
528
HEIGHT
60
18-Apr-2024
13:10
ALSHS
Server



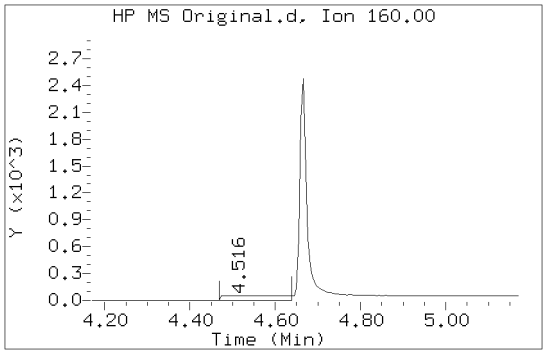

**AFTER**

MASS
162
AREA
6187
HEIGHT
5861
28-May-2024
13:05



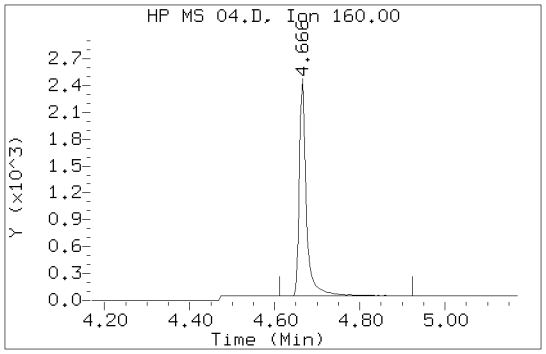

**BEFORE**

MASS
160
AREA
499
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server




**AFTER**

MASS
160
AREA
2756
HEIGHT
2428
28-May-2024
13:05



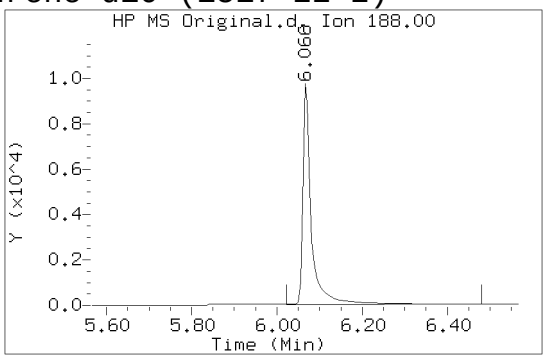
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Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

## Phenanthrene-d10 (1517-22-2)

Reason Code:

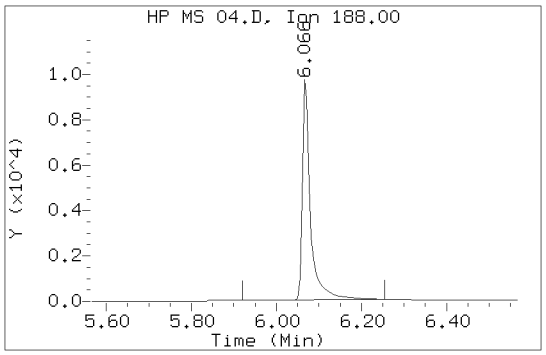
**BEFORE**

MASS
188
AREA
13965
HEIGHT
9748
18-Apr-2024
13:10
ALSHS
Server



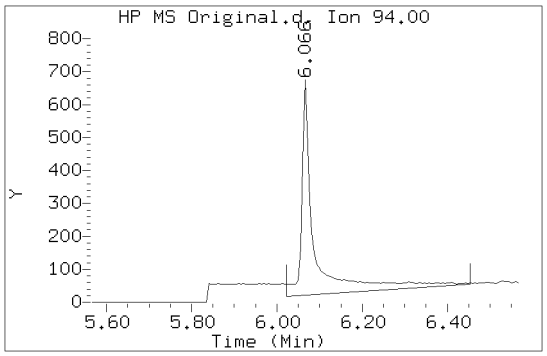

**AFTER**

MASS
188
AREA
12867
HEIGHT
9702
28-May-2024
13:05



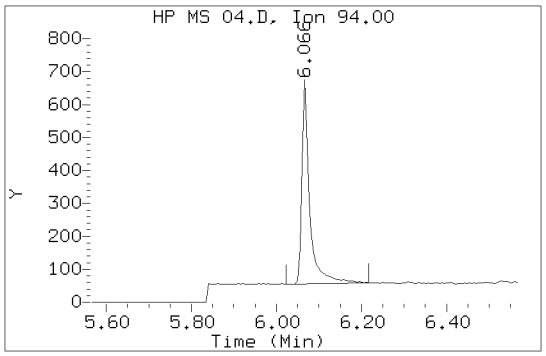

**BEFORE**

MASS
94
AREA
1364
HEIGHT
654
18-Apr-2024
13:10
ALSHS
Server



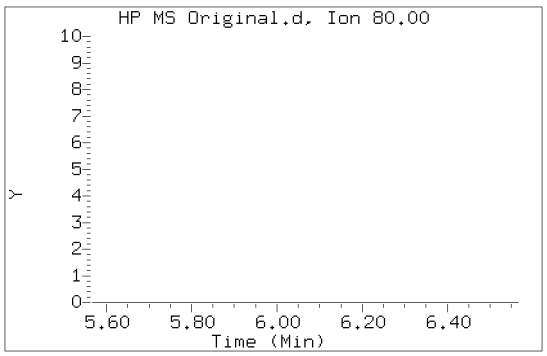

**AFTER**

MASS
94
AREA
793
HEIGHT
619
28-May-2024
13:05



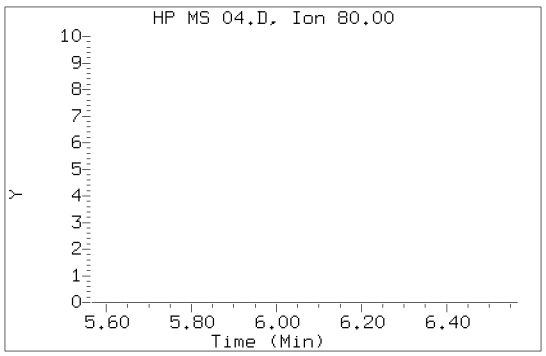

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

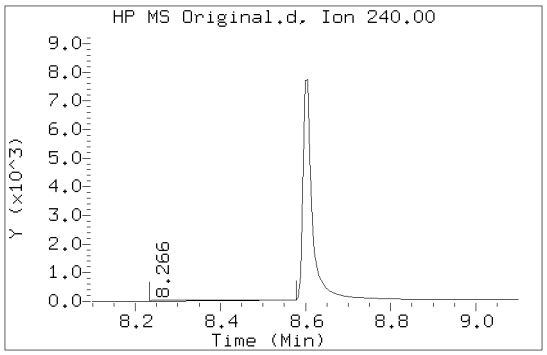



## Chrysene-d12 (1719-03-5)

Reason Code:

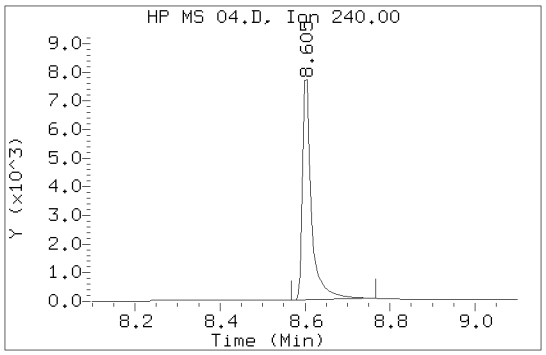
**BEFORE**

MASS
240
AREA
456
HEIGHT
48
18-Apr-2024
13:10
ALSHS
Server




**AFTER**

MASS
240
AREA
11333
HEIGHT
7679
28-May-2024
13:05

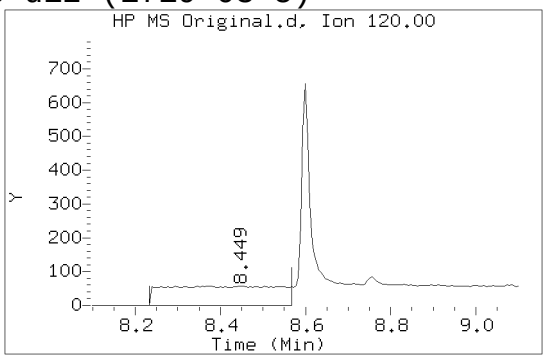


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Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

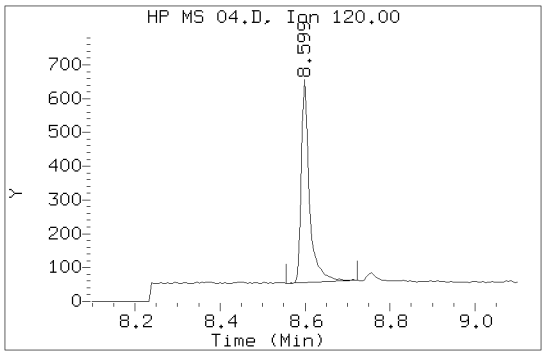
## Chrysene-d12 (1719-03-5)

Reason Code:

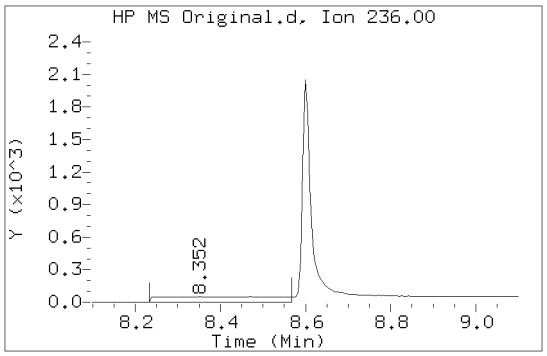
BEFORE
MASS
120
AREA
1092
HEIGHT
57
18-Apr-2024
13:10
ALSHS
Server



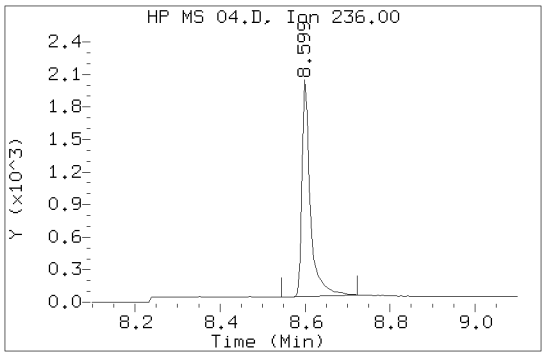

AFTER
MASS
120
AREA
786
HEIGHT
599
28-May-2024
13:05




BEFORE
MASS
236
AREA
988
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server



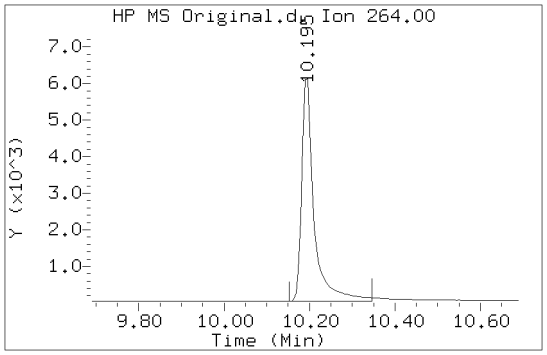

AFTER
MASS
236
AREA
2680
HEIGHT
1995
28-May-2024
13:05



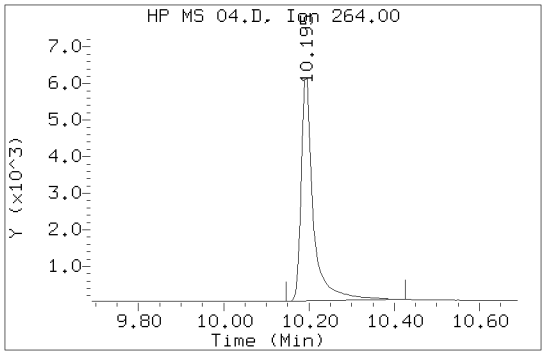

## Perylene-d12 (1520-96-3)

Reason Code:

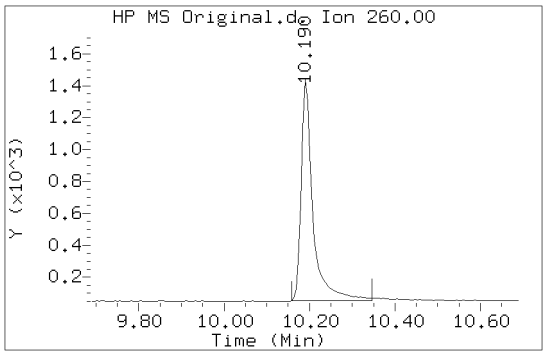
BEFORE
MASS
264
AREA
12161
HEIGHT
6073
18-Apr-2024
13:10
ALSHS
Server



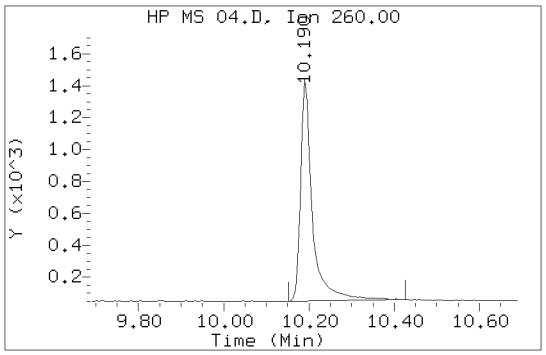

AFTER
MASS
264
AREA
12071
HEIGHT
6065
28-May-2024
13:05




BEFORE
MASS
260
AREA
2633
HEIGHT
1385
18-Apr-2024
13:10
ALSHS
Server




AFTER
MASS
260
AREA
2644
HEIGHT
1385
28-May-2024
13:05



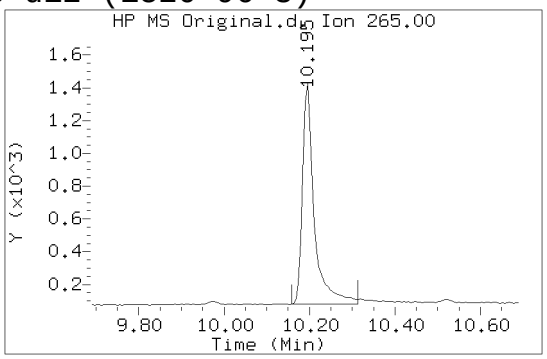
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

## Perylene-d12 (1520-96-3)

Reason Code:

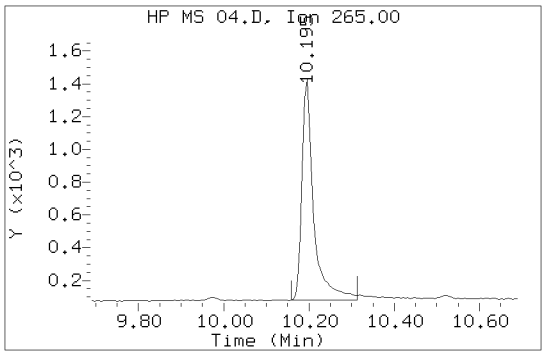
**BEFORE**

MASS
265
AREA
2550
HEIGHT
1343
18-Apr-2024
13:10
ALSHS
Server




**AFTER**

MASS
265
AREA
2550
HEIGHT
1343
28-May-2024
13:05

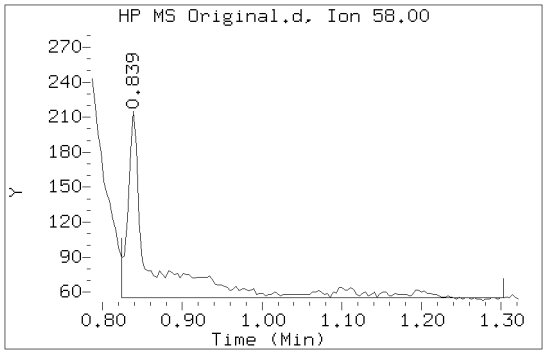



## 1,4-Dioxane ()

Reason Code:

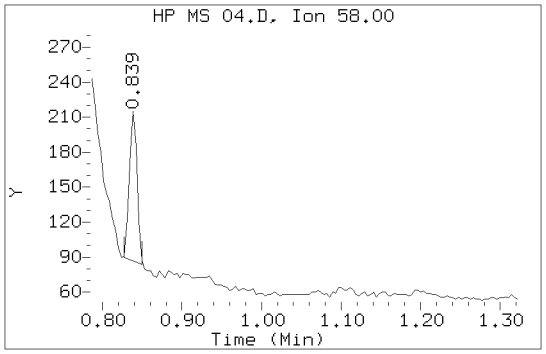
**BEFORE**

MASS
58
AREA
329
HEIGHT
160
18-Apr-2024
13:10
ALSHS
Server



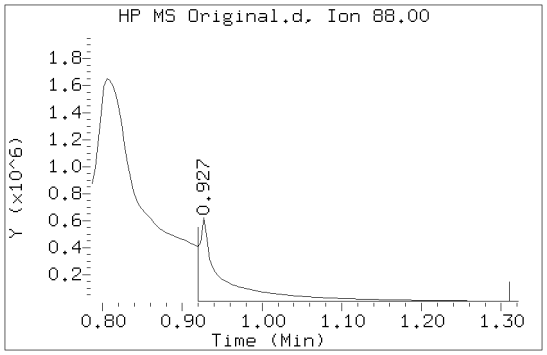

**AFTER**

MASS
58
AREA
87
HEIGHT
128
28-May-2024
13:05



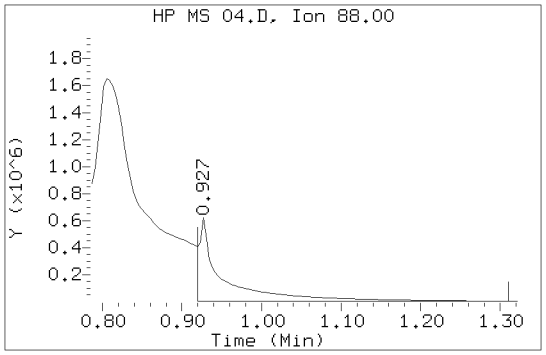

**BEFORE**

MASS
88
AREA
1289287
HEIGHT
619255
18-Apr-2024
13:10
ALSHS
Server




**AFTER**

MASS
88
AREA
1289287
HEIGHT
619255
28-May-2024
13:05

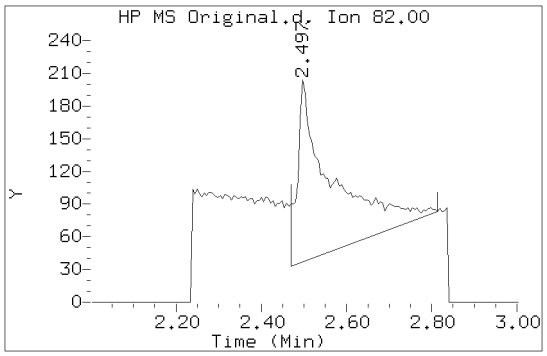



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

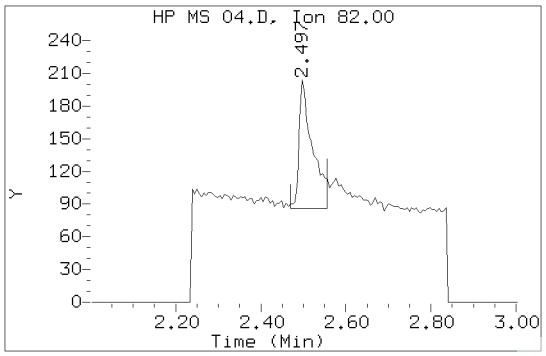
**BEFORE**

MASS
82
AREA
946
HEIGHT
167
18-Apr-2024
13:10
ALSHS
Server




**AFTER**

MASS
82
AREA
262
HEIGHT
118
28-May-2024
13:05

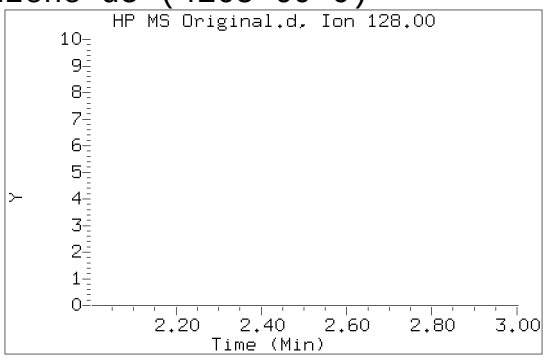


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

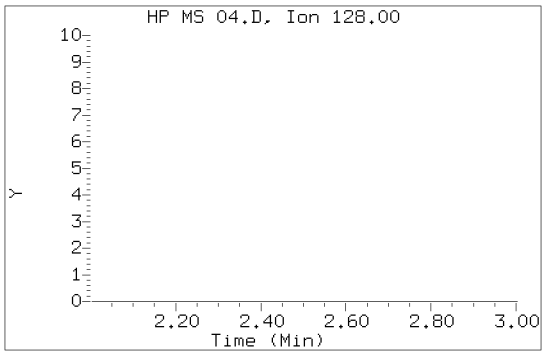
## Nitrobenzene-d5 (4165-60-0)

Reason Code:

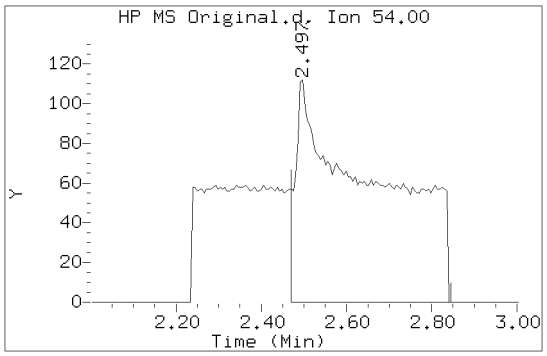
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server



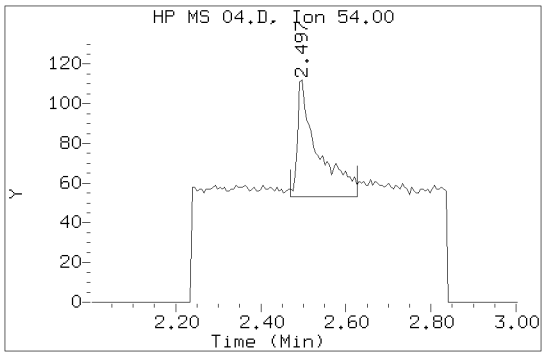

AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05




BEFORE
MASS
54
AREA
1431
HEIGHT
112
18-Apr-2024
13:10
ALSHS
Server



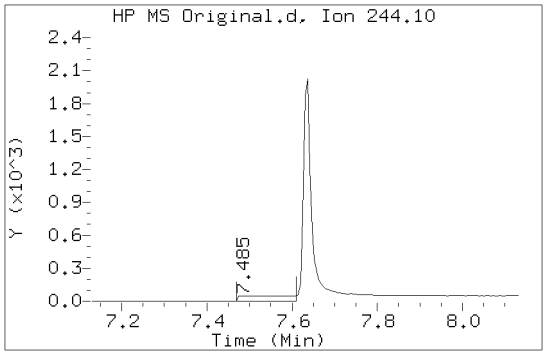

AFTER
MASS
54
AREA
197
HEIGHT
59
28-May-2024
13:05



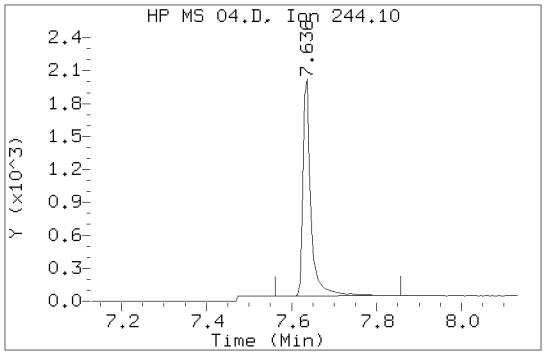

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

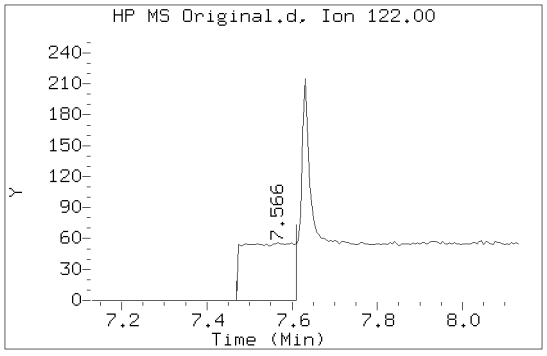
BEFORE
MASS
244.1
AREA
404
HEIGHT
49
18-Apr-2024
13:10
ALSHS
Server



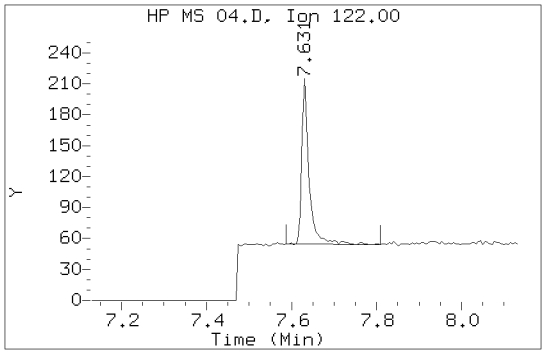

AFTER
MASS
244.1
AREA
2521
HEIGHT
1975
28-May-2024
13:05




BEFORE
MASS
122
AREA
456
HEIGHT
56
18-Apr-2024
13:10
ALSHS
Server




AFTER
MASS
122
AREA
187
HEIGHT
160
28-May-2024
13:05



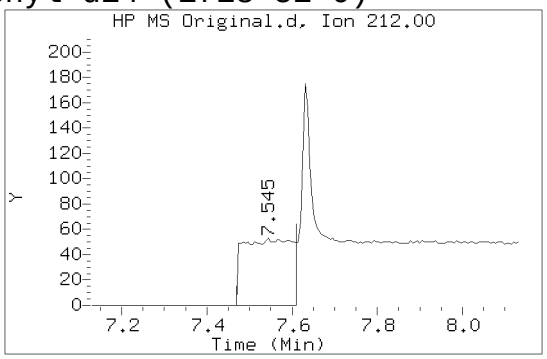
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

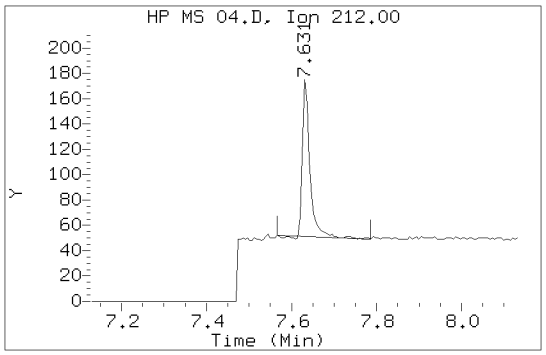
**BEFORE**

MASS
212
AREA
418
HEIGHT
53
18-Apr-2024
13:10
ALSHS
Server




**AFTER**

MASS
212
AREA
146
HEIGHT
123
28-May-2024
13:05

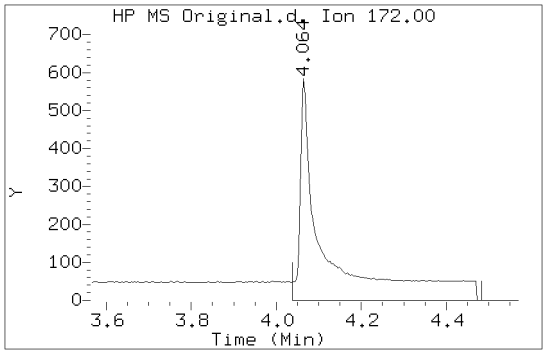



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

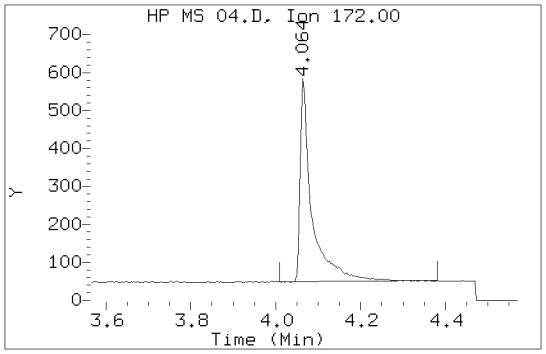
**BEFORE**

MASS
172
AREA
2355
HEIGHT
584
18-Apr-2024
13:10
ALSHS
Server



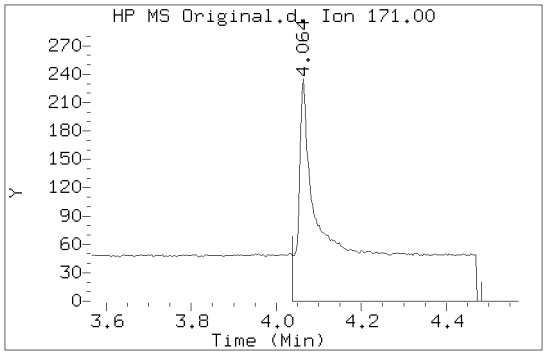

**AFTER**

MASS
172
AREA
1018
HEIGHT
534
28-May-2024
13:05



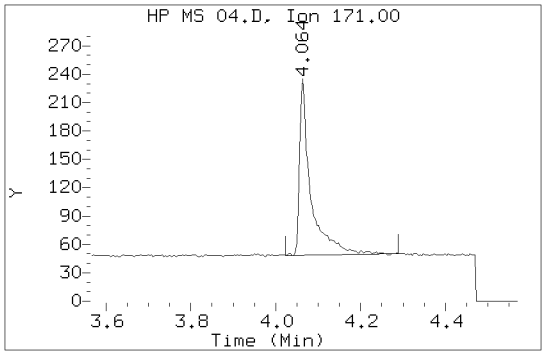

**BEFORE**

MASS
171
AREA
1637
HEIGHT
235
18-Apr-2024
13:10
ALSHS
Server




**AFTER**

MASS
171
AREA
346
HEIGHT
186
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Lab Smp Id: 14DX-0.03
Inj Date : 18-APR-2024 13:07
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:07 Cal File: 05.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | AMOUNTS ON-COL ( NG) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 2.088 | 2.089 | (1.000) | 2278 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 3.076 | 3.076 | (1.000) | 6857 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.496 | 2.502 | (0.812) | 570 | 0.03000 | 0.02769(M) |
| * 86 Acenaphthene-d10 | 164 | 4.665 | 4.671 | (1.000) | 3891 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 4.063 | 4.067 | (0.871) | 1731 | 0.03000 | 0.02910(M) |
| * 126 Phenanthrene-d10 | 188 | 6.065 | 6.065 | (1.000) | 7578 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 8.598 | 8.599 | (1.000) | 6445 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.630 | 7.630 | (0.887) | 3857 | 0.03000 | 0.02938(M) |
| * 198 Perylene-d12 | 264 | 10.189 | 10.189 | (1.000) | 6635 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 0.827 | 0.820 | (0.396) | 138 | 0.03000 | 0.02828(QM) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D



Date : 18-APR-2024 13:07

Client ID:

Instrument: SV6.i

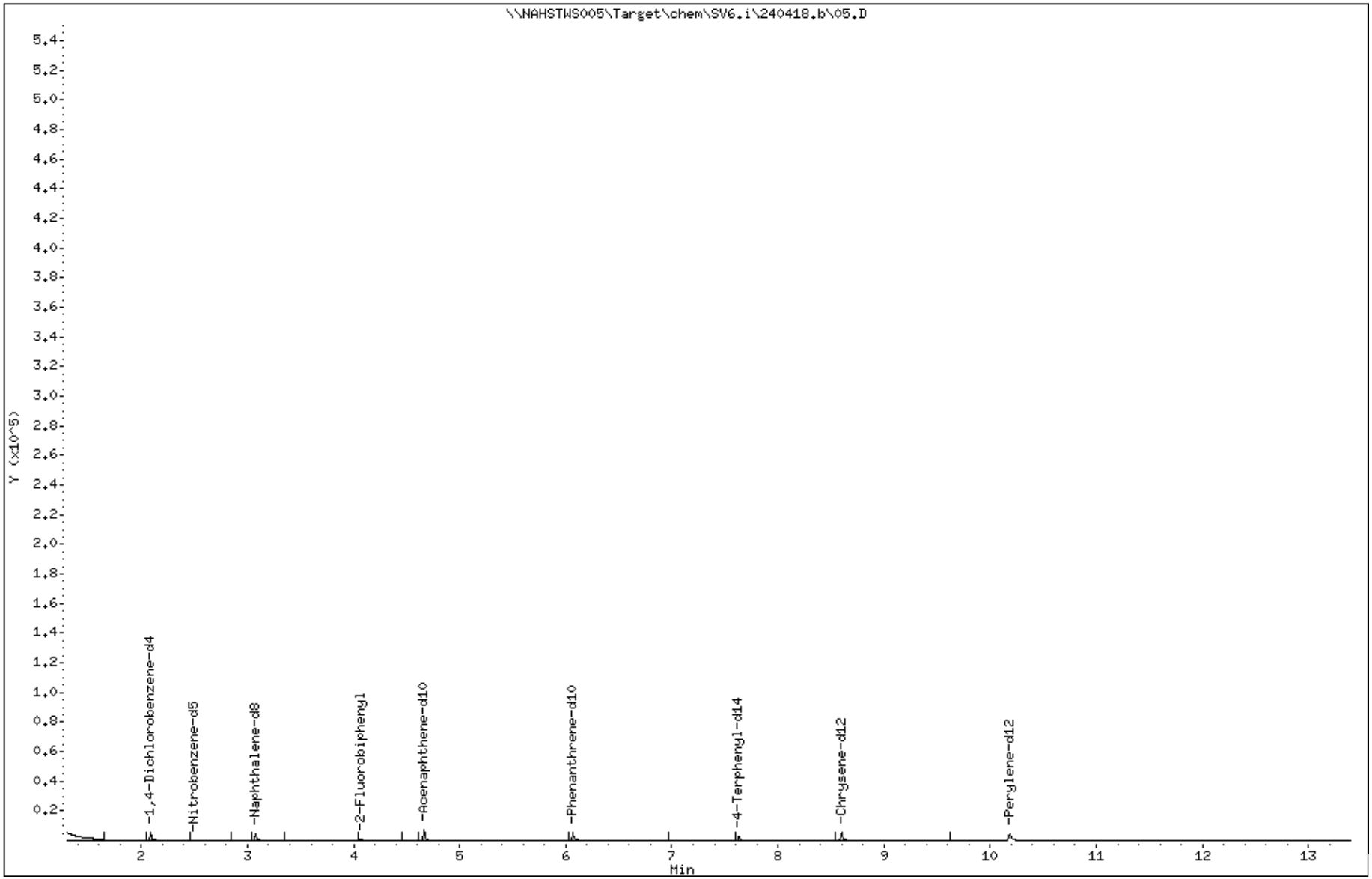
Sample Info: 14DX-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

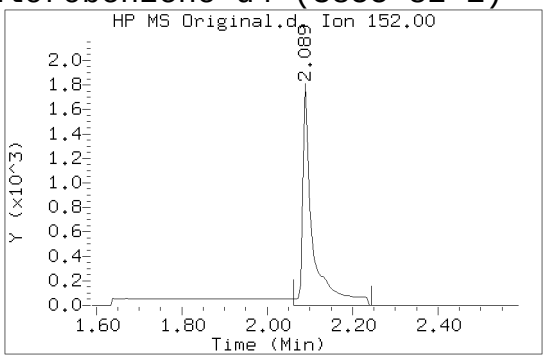


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

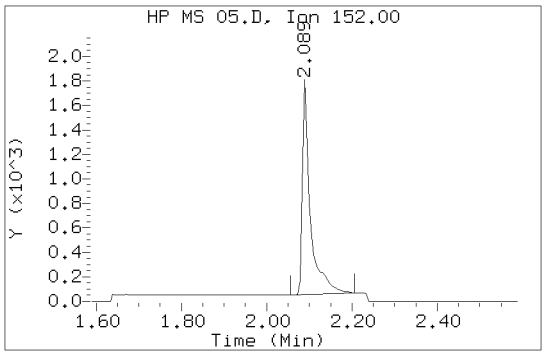
## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

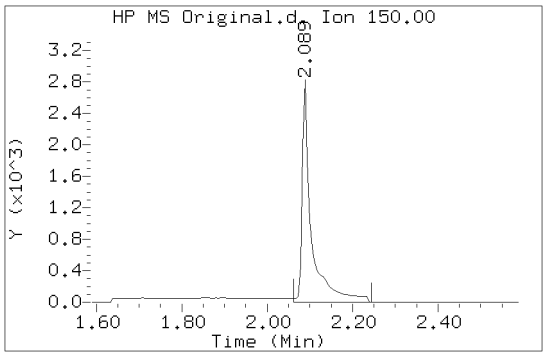
BEFORE
MASS
152
AREA
2919
HEIGHT
1810
18-Apr-2024
13:21
ALSHS
Server



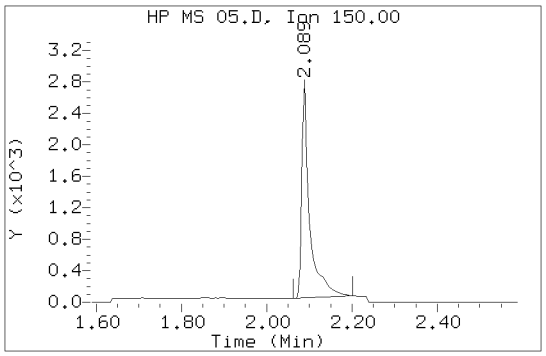

AFTER
MASS
152
AREA
2278
HEIGHT
1755
28-May-2024
13:05



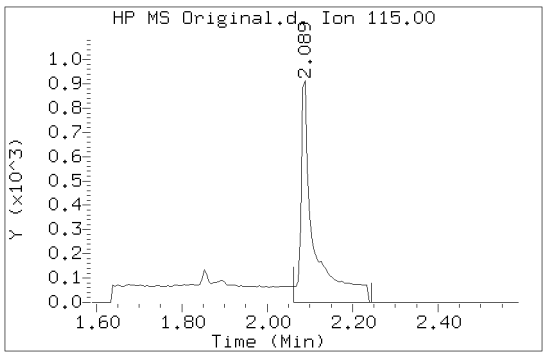

BEFORE
MASS
150
AREA
4252
HEIGHT
2826
18-Apr-2024
13:21
ALSHS
Server



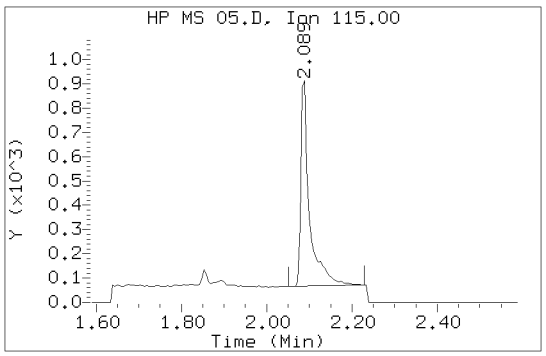

AFTER
MASS
150
AREA
3521
HEIGHT
2768
28-May-2024
13:05




BEFORE
MASS
115
AREA
1932
HEIGHT
913
18-Apr-2024
13:21
ALSHS
Server



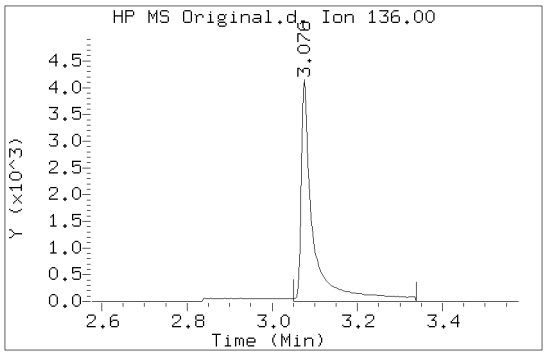

AFTER
MASS
115
AREA
1207
HEIGHT
846
28-May-2024
13:05



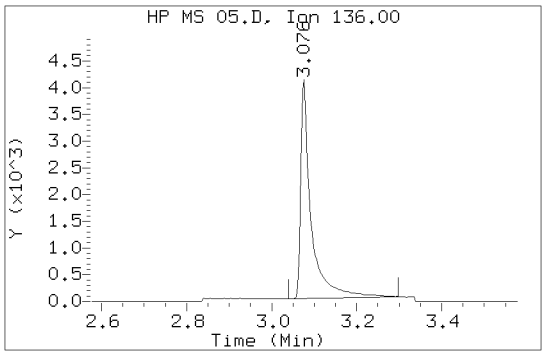

## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8079
HEIGHT
4148
18-Apr-2024
13:21
ALSHS
Server




AFTER
MASS
136
AREA
6857
HEIGHT
4091
28-May-2024
13:05

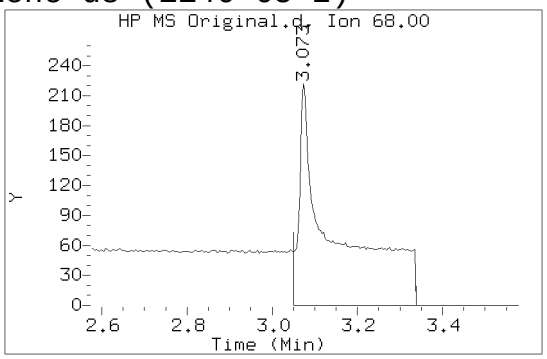


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

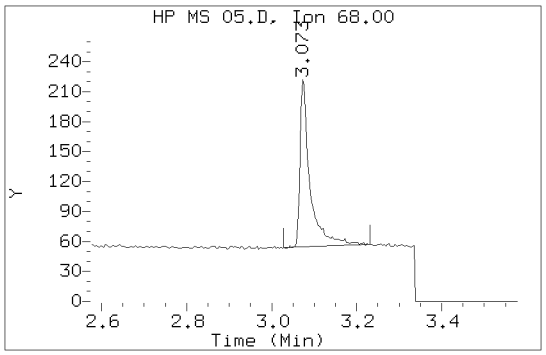
## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1234
HEIGHT
222
18-Apr-2024
13:21
ALSHS
Server



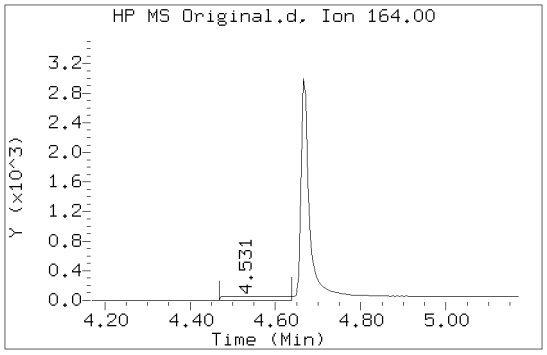

AFTER
MASS
68
AREA
270
HEIGHT
167
28-May-2024
13:05



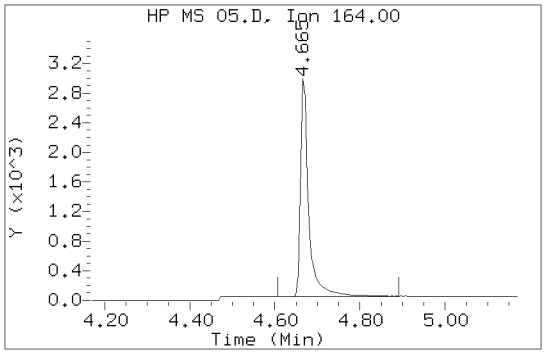

## Acenaphthene-d10 (15067-26-2)

Reason Code:

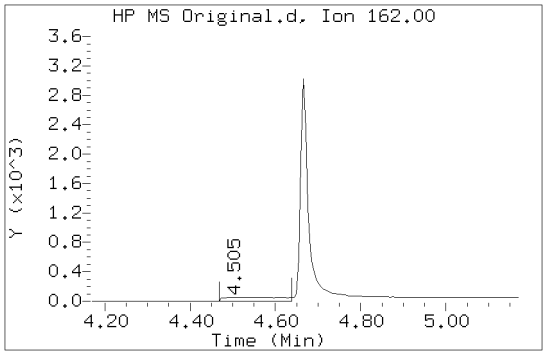
BEFORE
MASS
164
AREA
504
HEIGHT
51
18-Apr-2024
13:21
ALSHS
Server



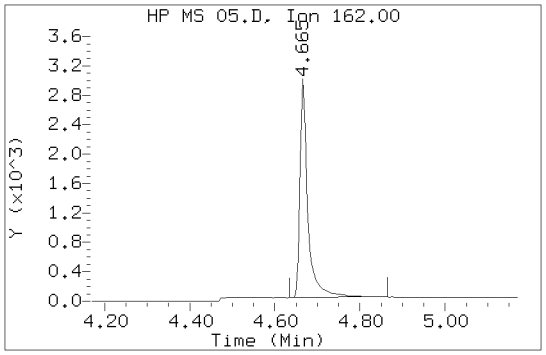

AFTER
MASS
164
AREA
3891
HEIGHT
2944
28-May-2024
13:05



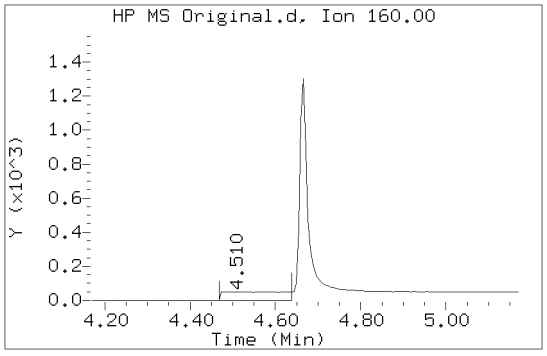

BEFORE
MASS
162
AREA
505
HEIGHT
54
18-Apr-2024
13:21
ALSHS
Server



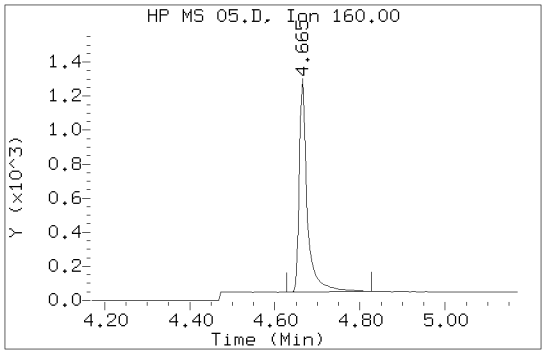

AFTER
MASS
162
AREA
3749
HEIGHT
2972
28-May-2024
13:05




BEFORE
MASS
160
AREA
490
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server




AFTER
MASS
160
AREA
1625
HEIGHT
1253
28-May-2024
13:05



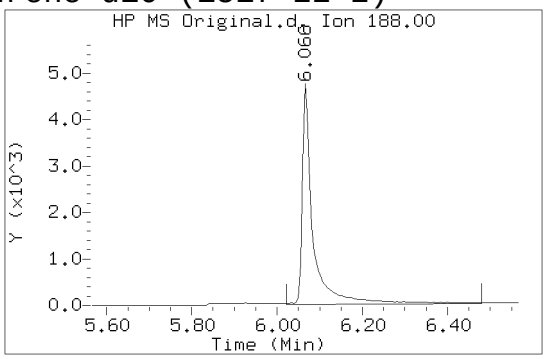
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

## Phenanthrene-d10 (1517-22-2)

Reason Code:

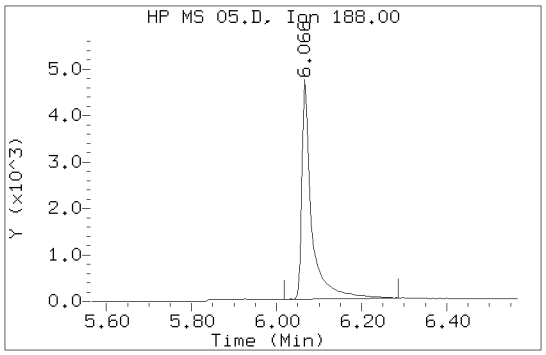
**BEFORE**

MASS
188
AREA
8422
HEIGHT
4756
18-Apr-2024
13:21
ALSHS
Server



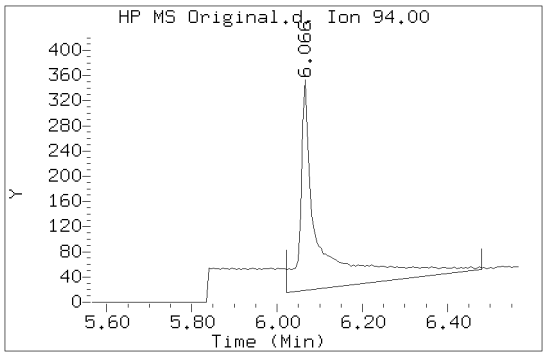

**AFTER**

MASS
188
AREA
7578
HEIGHT
4722
28-May-2024
13:05



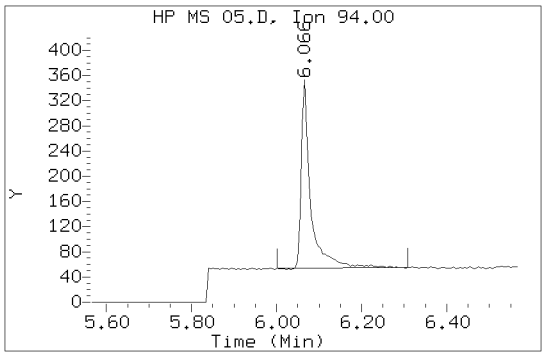

**BEFORE**

MASS
94
AREA
1045
HEIGHT
334
18-Apr-2024
13:21
ALSHS
Server



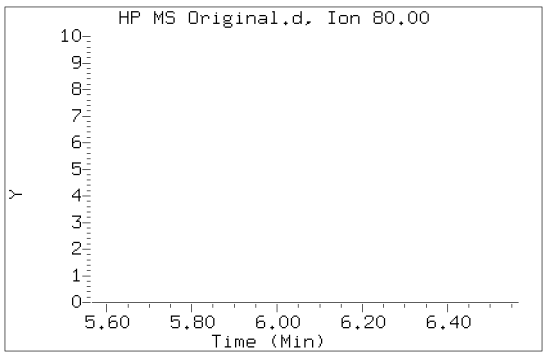

**AFTER**

MASS
94
AREA
460
HEIGHT
298
28-May-2024
13:05



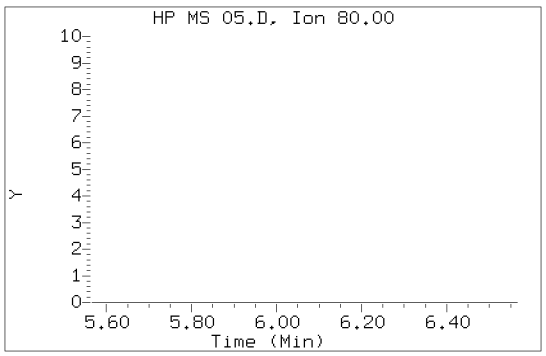

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

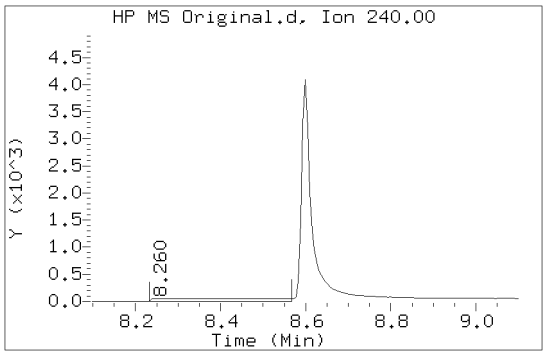



## Chrysene-d12 (1719-03-5)

Reason Code:

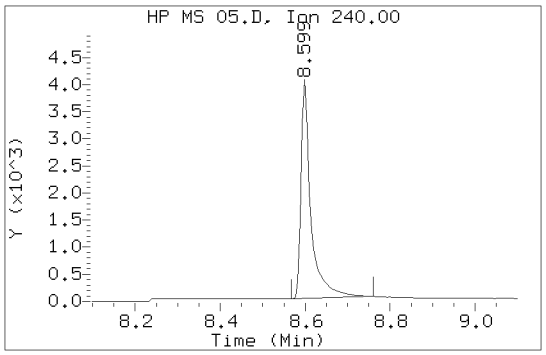
**BEFORE**

MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server




**AFTER**

MASS
240
AREA
6445
HEIGHT
4036
28-May-2024
13:05



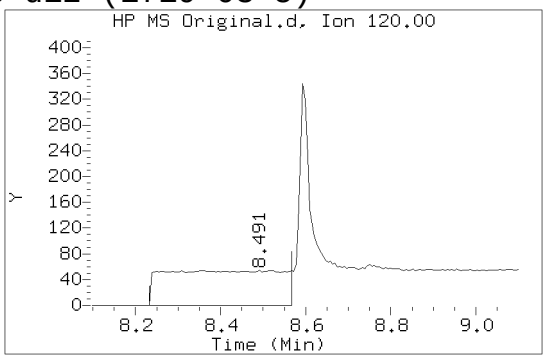
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

## Chrysene-d12 (1719-03-5)

Reason Code:

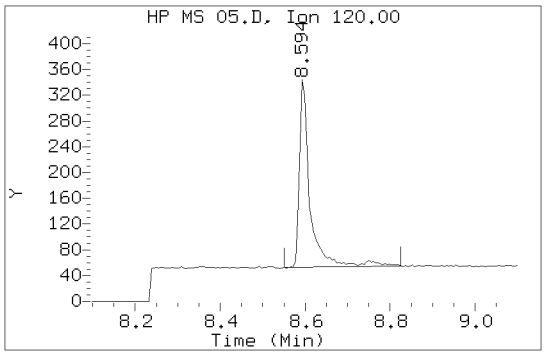
BEFORE

MASS
120
AREA
1053
HEIGHT
55
18-Apr-2024
13:21
ALSHS
Server



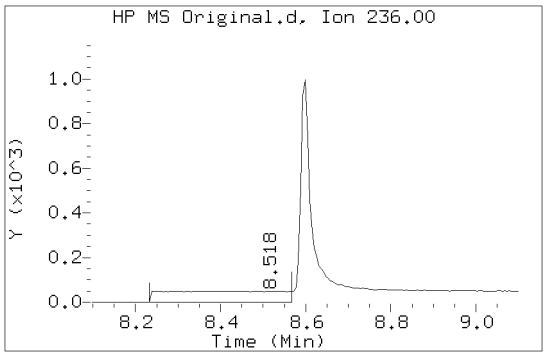

AFTER

MASS
120
AREA
500
HEIGHT
290
28-May-2024
13:05



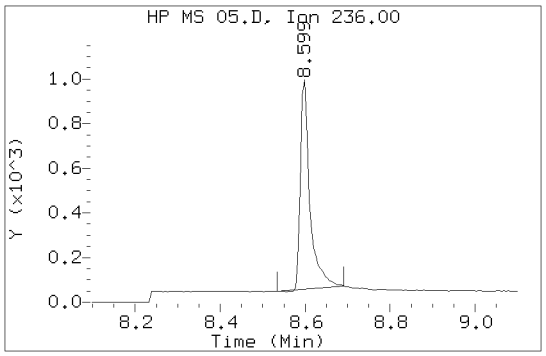

BEFORE

MASS
236
AREA
963
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server




AFTER

MASS
236
AREA
1446
HEIGHT
938
28-May-2024
13:05

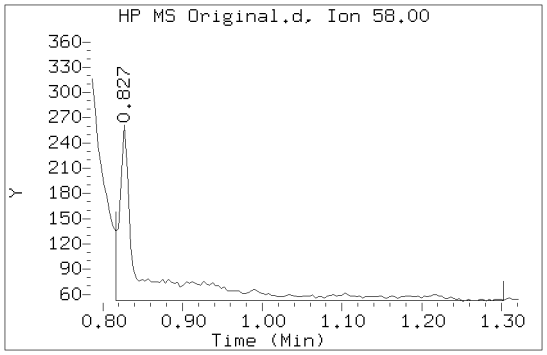



## 1,4-Dioxane ()

Reason Code:

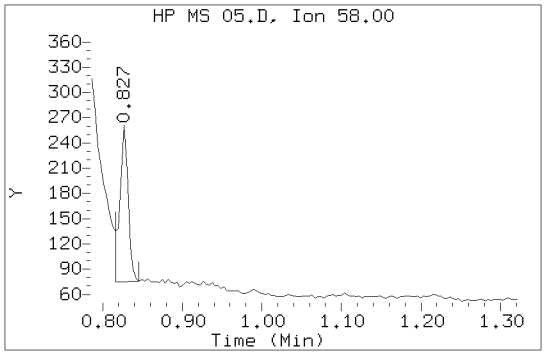
BEFORE

MASS
58
AREA
414
HEIGHT
208
18-Apr-2024
13:21
ALSHS
Server



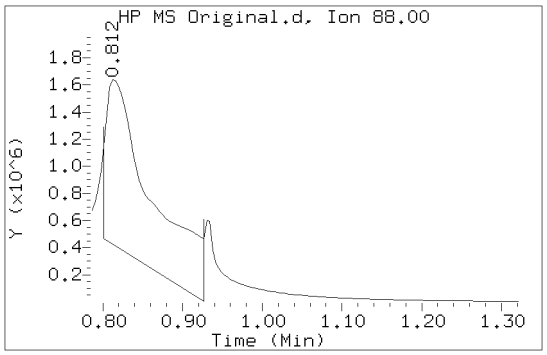

AFTER

MASS
58
AREA
138
HEIGHT
185
28-May-2024
13:05



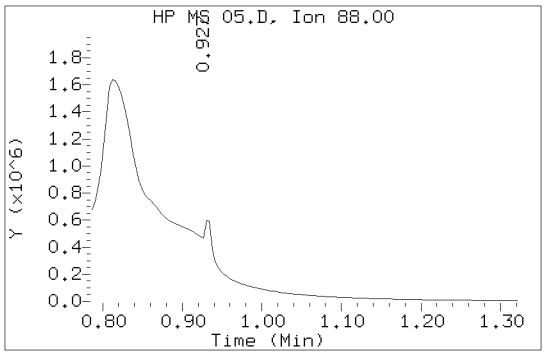

BEFORE

MASS
88
AREA
4998904
HEIGHT
1209480
18-Apr-2024
13:21
ALSHS
Server




AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

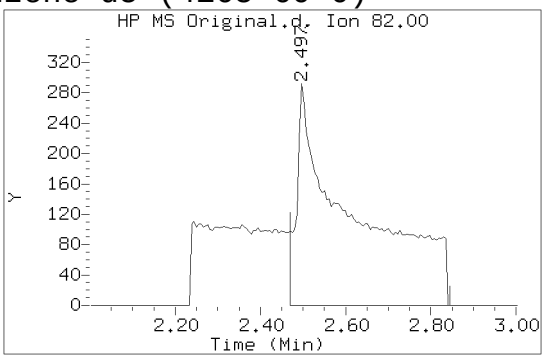


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

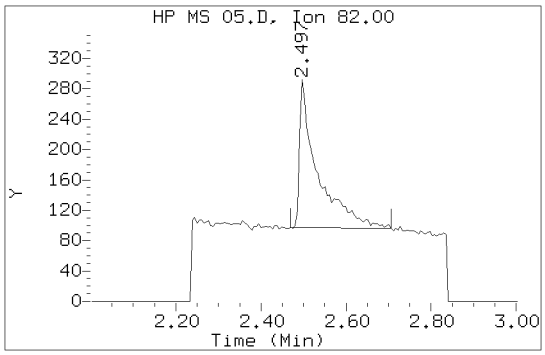
## Nitrobenzene-d5 (4165-60-0)

Reason Code:

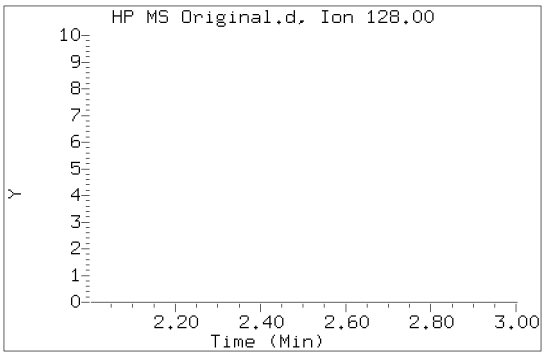
BEFORE
MASS
82
AREA
2662
HEIGHT
292
18-Apr-2024
13:21
ALSHS
Server



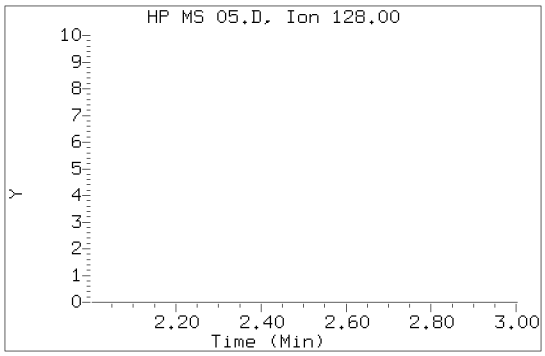

AFTER
MASS
82
AREA
570
HEIGHT
195
28-May-2024
13:05



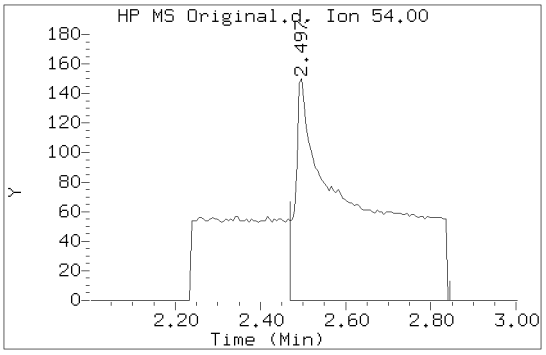

BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server



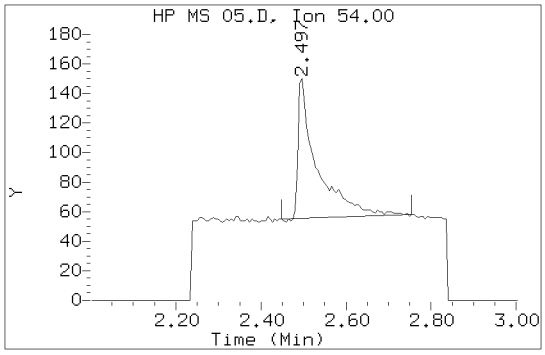

AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05




BEFORE
MASS
54
AREA
1538
HEIGHT
150
18-Apr-2024
13:21
ALSHS
Server



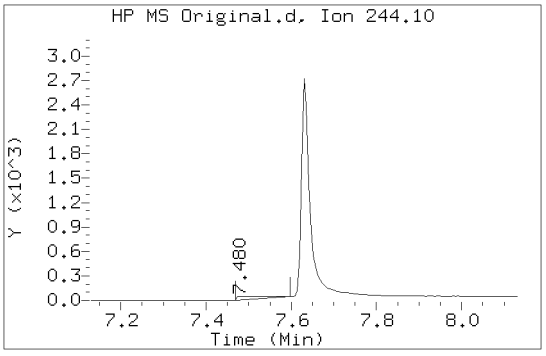

AFTER
MASS
54
AREA
289
HEIGHT
94
28-May-2024
13:05



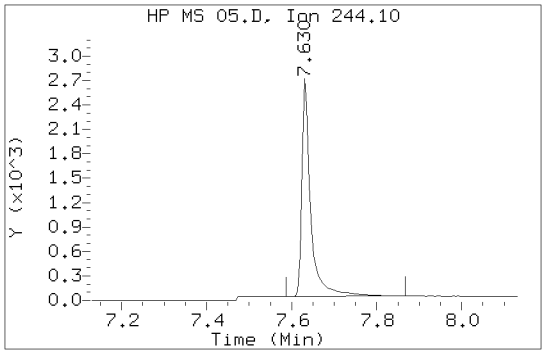

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
174
HEIGHT
44
18-Apr-2024
13:21
ALSHS
Server




AFTER
MASS
244.1
AREA
3857
HEIGHT
2674
28-May-2024
13:05



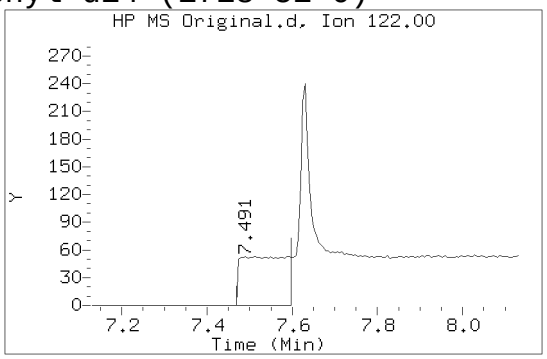
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

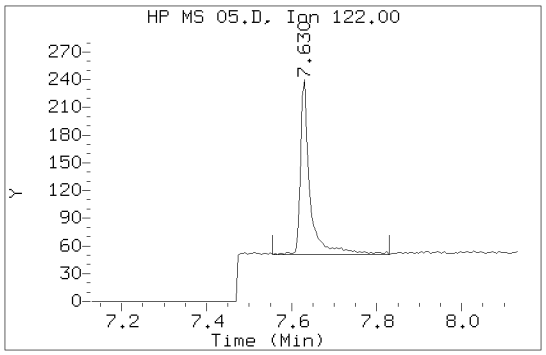
**BEFORE**

MASS
122
AREA
401
HEIGHT
53
18-Apr-2024
13:21
ALSHS
Server



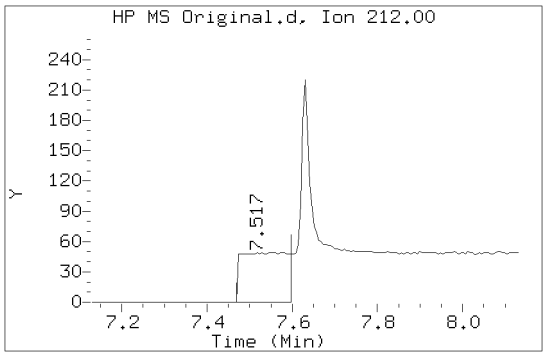

**AFTER**

MASS
122
AREA
296
HEIGHT
189
28-May-2024
13:05



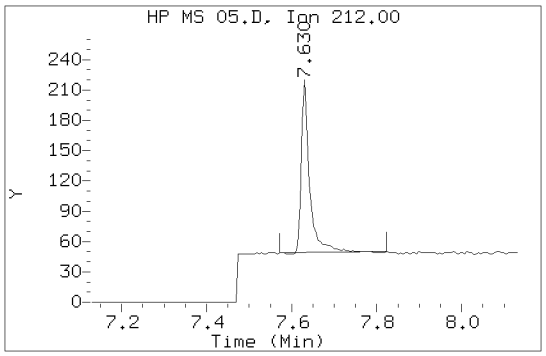

**BEFORE**

MASS
212
AREA
374
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server




**AFTER**

MASS
212
AREA
227
HEIGHT
170
28-May-2024
13:05

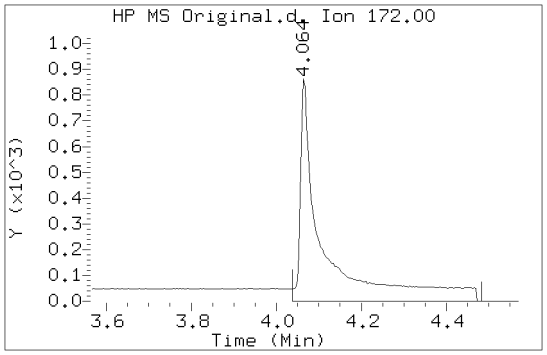



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

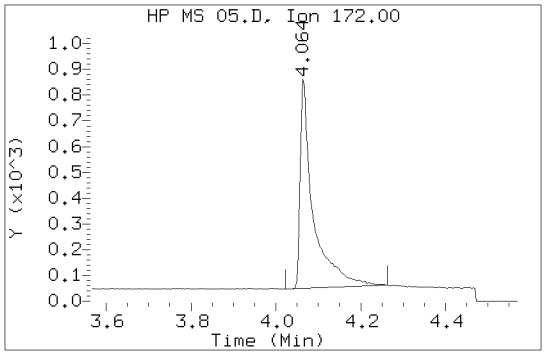
**BEFORE**

MASS
172
AREA
3193
HEIGHT
863
18-Apr-2024
13:21
ALSHS
Server



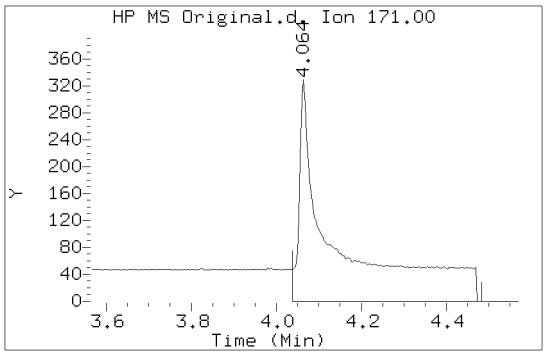

**AFTER**

MASS
172
AREA
1731
HEIGHT
812
28-May-2024
13:05



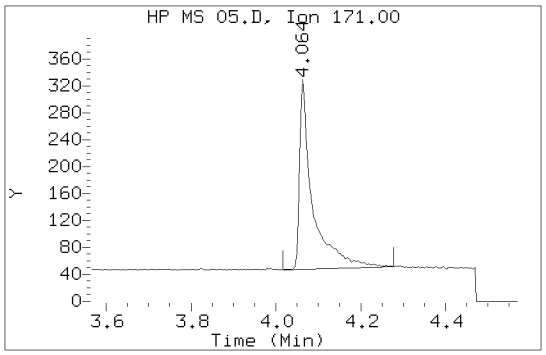

**BEFORE**

MASS
171
AREA
1906
HEIGHT
329
18-Apr-2024
13:21
ALSHS
Server




**AFTER**

MASS
171
AREA
602
HEIGHT
281
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Lab Smp Id: 14DX-0.05
Inj Date : 18-APR-2024 13:25
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:25 Cal File: 06.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | ON-COL ( NG) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 2.094 | 2.089 | (1.000) | 3152 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 3.076 | 3.076 | (1.000) | 9502 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.497 | 2.502 | (0.812) | 1589 | 0.05000 | 0.05570(M) |
| * 86 Acenaphthene-d10 | 164 | 4.665 | 4.671 | (1.000) | 6015 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 4.064 | 4.067 | (0.871) | 4588 | 0.05000 | 0.04990(M) |
| * 126 Phenanthrene-d10 | 188 | 6.065 | 6.065 | (1.000) | 11597 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 8.599 | 8.599 | (1.000) | 10029 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.630 | 7.630 | (0.887) | 10047 | 0.05000 | 0.04918(M) |
| * 198 Perylene-d12 | 264 | 10.189 | 10.189 | (1.000) | 10408 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 0.849 | 0.820 | (0.406) | 339 | 0.05000 | 0.05021(M) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D



Date : 18-APR-2024 13:25

Client ID:

Instrument: SV6.i

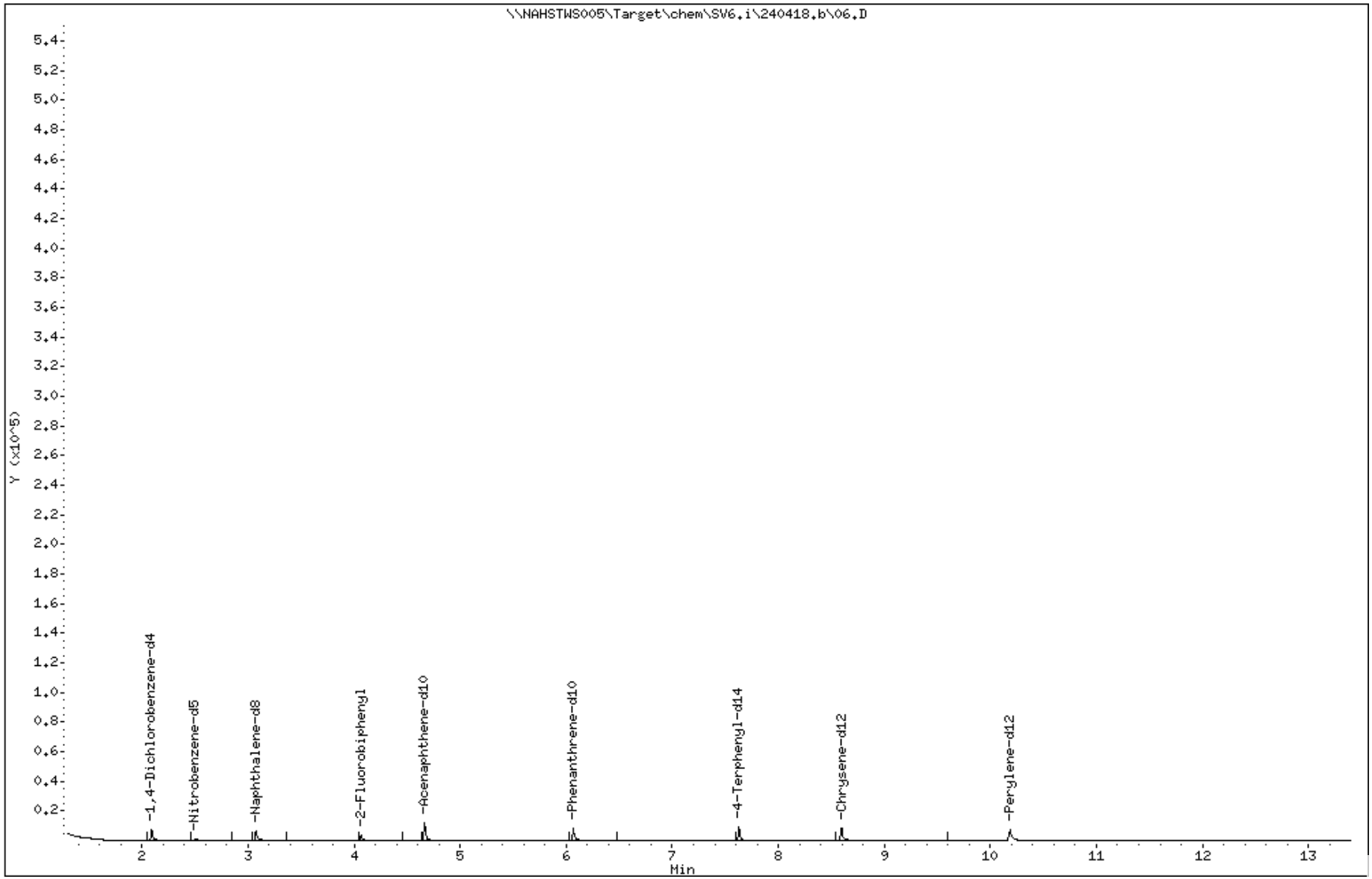
Sample Info: 14DX-0.05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

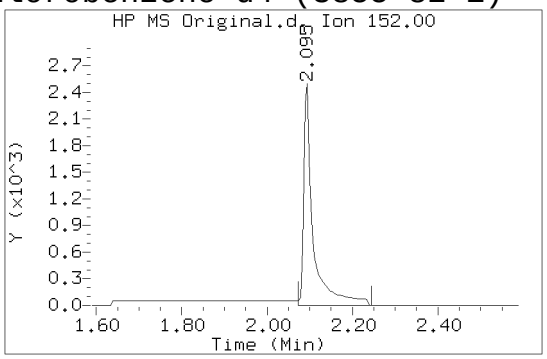


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

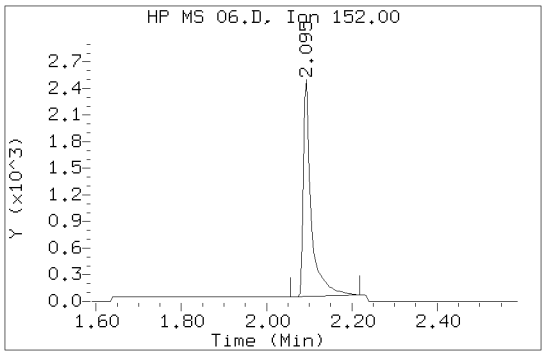
## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

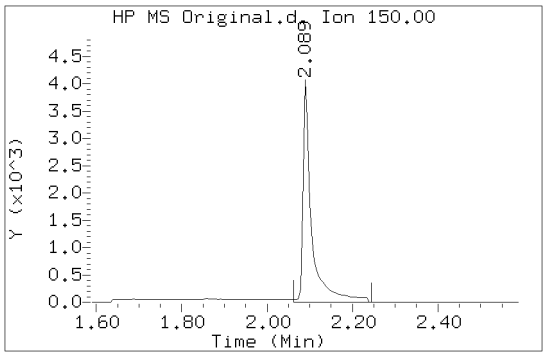
BEFORE
MASS
152
AREA
3790
HEIGHT
2499
18-Apr-2024
13:40
ALSHS
Server



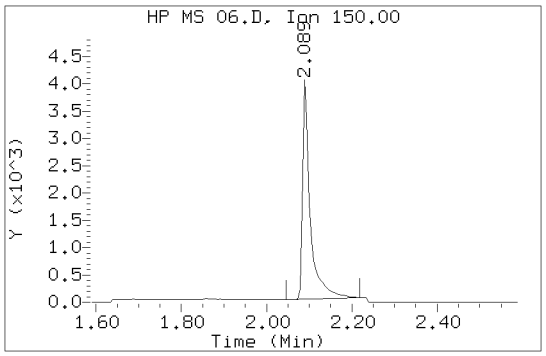

AFTER
MASS
152
AREA
3152
HEIGHT
2443
28-May-2024
13:05



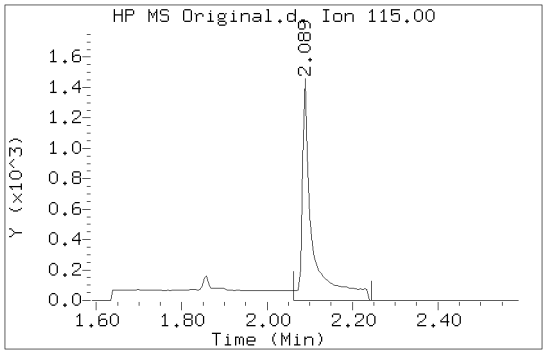

BEFORE
MASS
150
AREA
5683
HEIGHT
4072
18-Apr-2024
13:40
ALSHS
Server



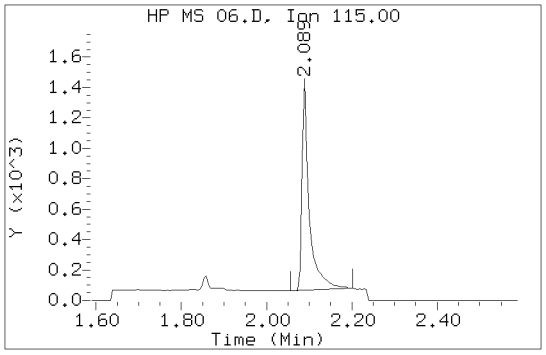

AFTER
MASS
150
AREA
4936
HEIGHT
4013
28-May-2024
13:05




BEFORE
MASS
115
AREA
2390
HEIGHT
1458
18-Apr-2024
13:40
ALSHS
Server



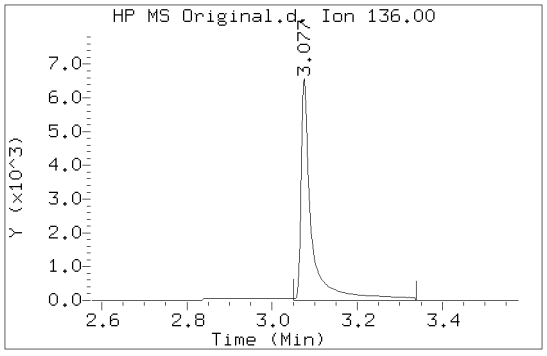

AFTER
MASS
115
AREA
1620
HEIGHT
1390
28-May-2024
13:05



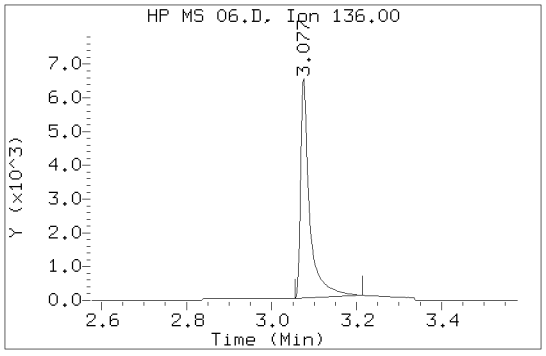

## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
11303
HEIGHT
6569
18-Apr-2024
13:40
ALSHS
Server




AFTER
MASS
136
AREA
9502
HEIGHT
6499
28-May-2024
13:05

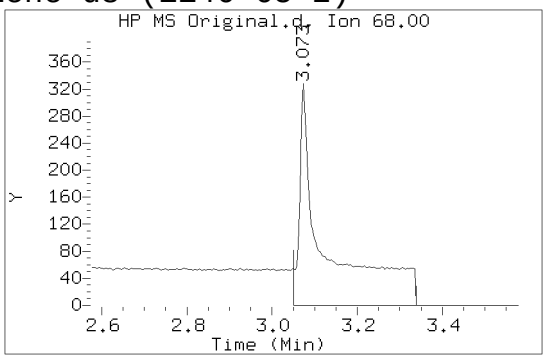


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

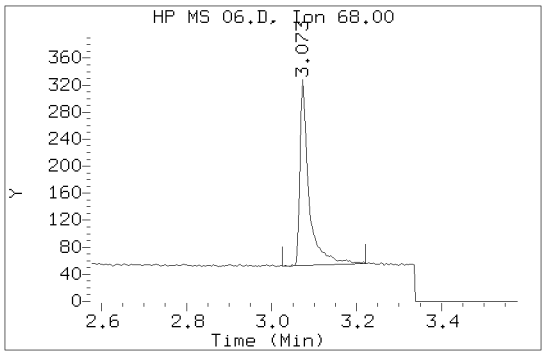
## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1344
HEIGHT
328
18-Apr-2024
13:40
ALSHS
Server



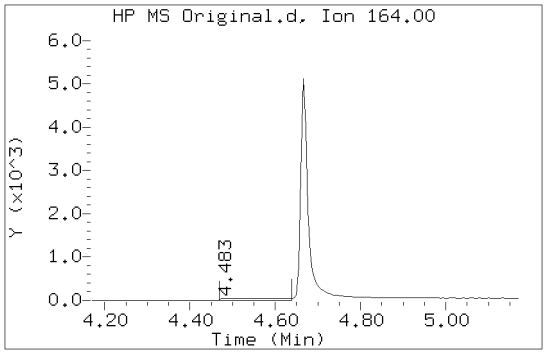

AFTER
MASS
68
AREA
401
HEIGHT
275
28-May-2024
13:05



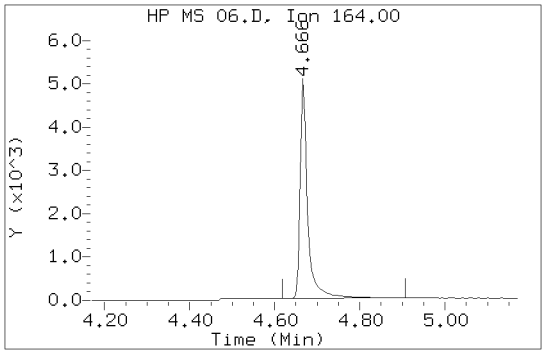

## Acenaphthene-d10 (15067-26-2)

Reason Code:

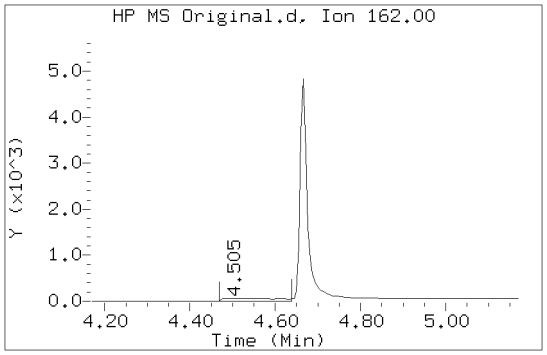
BEFORE
MASS
164
AREA
496
HEIGHT
51
18-Apr-2024
13:40
ALSHS
Server



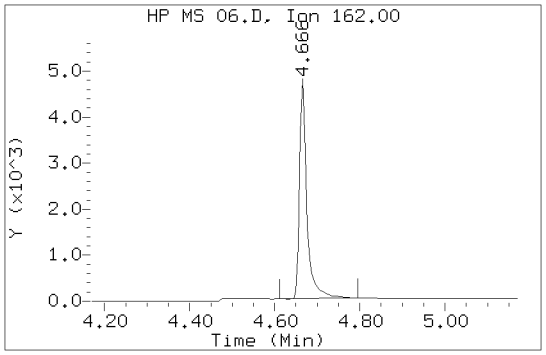

AFTER
MASS
164
AREA
6015
HEIGHT
5068
28-May-2024
13:05



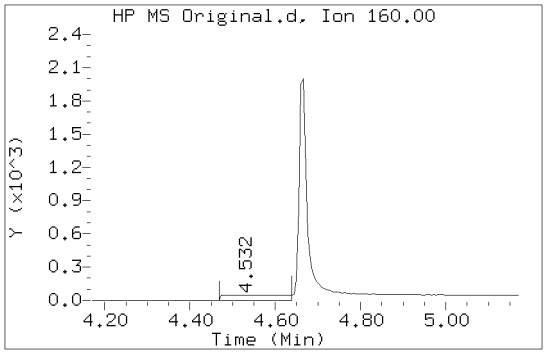

BEFORE
MASS
162
AREA
502
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



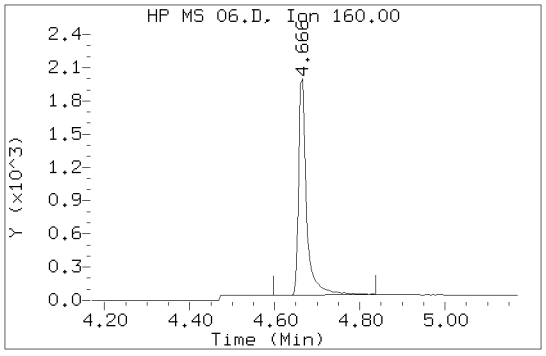

AFTER
MASS
162
AREA
5625
HEIGHT
4775
28-May-2024
13:05




BEFORE
MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server




AFTER
MASS
160
AREA
2508
HEIGHT
1951
28-May-2024
13:05



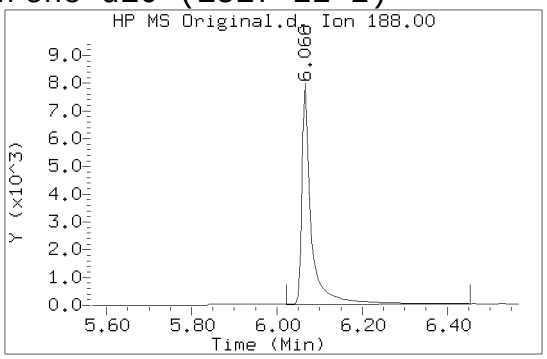
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

## Phenanthrene-d10 (1517-22-2)

Reason Code:

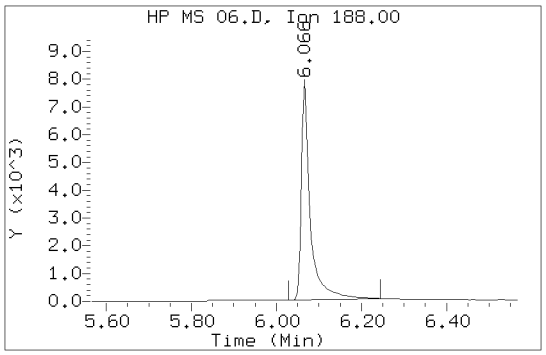
**BEFORE**

MASS
188
AREA
12630
HEIGHT
7964
18-Apr-2024
13:40
ALSHS
Server



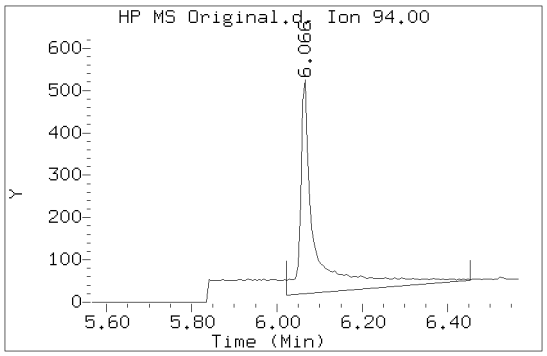

**AFTER**

MASS
188
AREA
11597
HEIGHT
7928
28-May-2024
13:05



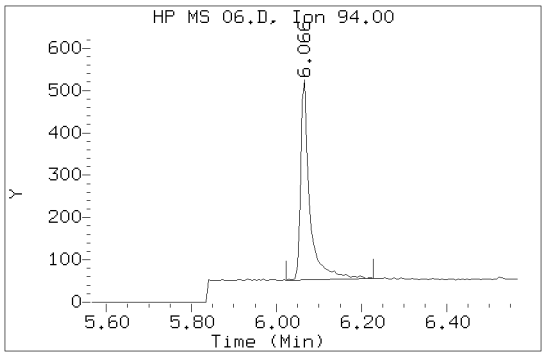

**BEFORE**

MASS
94
AREA
1254
HEIGHT
505
18-Apr-2024
13:40
ALSHS
Server



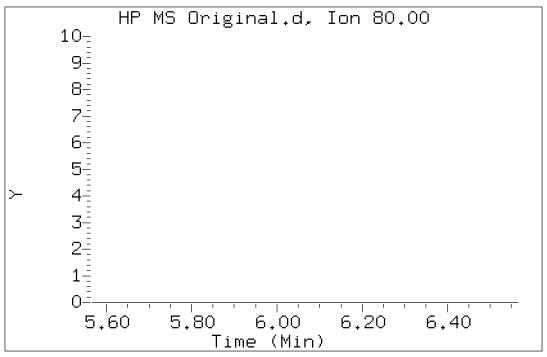

**AFTER**

MASS
94
AREA
716
HEIGHT
472
28-May-2024
13:05



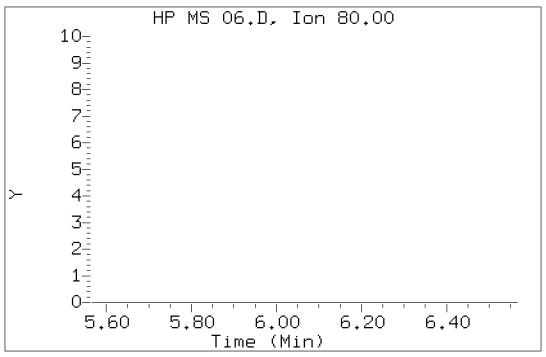

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

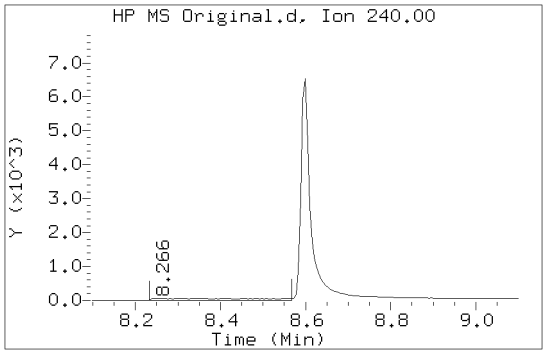



## Chrysene-d12 (1719-03-5)

Reason Code:

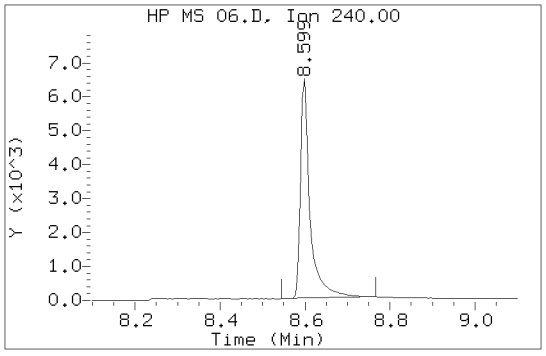
**BEFORE**

MASS
240
AREA
955
HEIGHT
50
18-Apr-2024
13:40
ALSHS
Server




**AFTER**

MASS
240
AREA
10029
HEIGHT
6473
28-May-2024
13:05



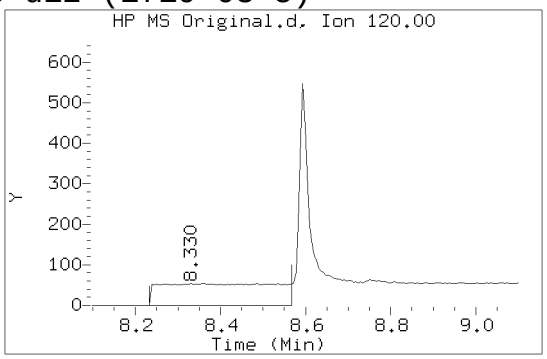
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

## Chrysene-d12 (1719-03-5)

Reason Code:

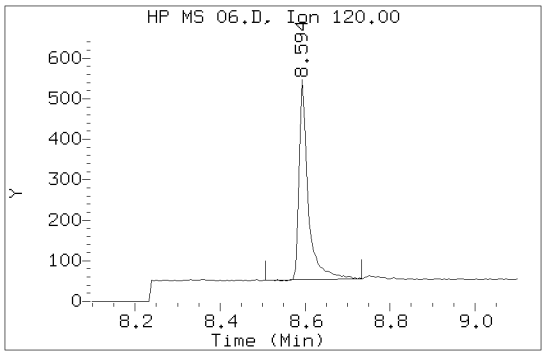
BEFORE

MASS
120
AREA
1034
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



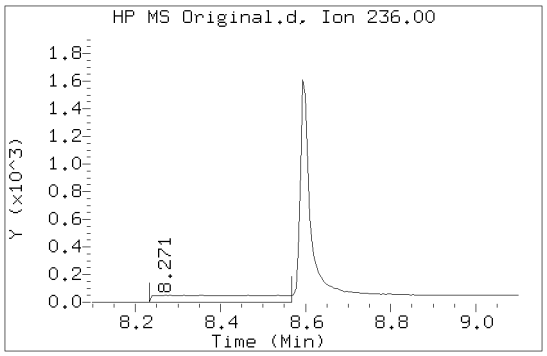

AFTER

MASS
120
AREA
729
HEIGHT
493
28-May-2024
13:05



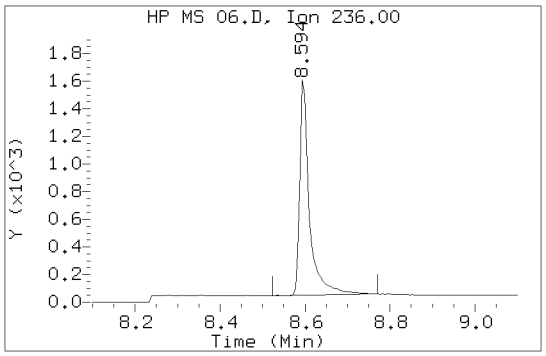

BEFORE

MASS
236
AREA
955
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server




AFTER

MASS
236
AREA
2416
HEIGHT
1557
28-May-2024
13:05

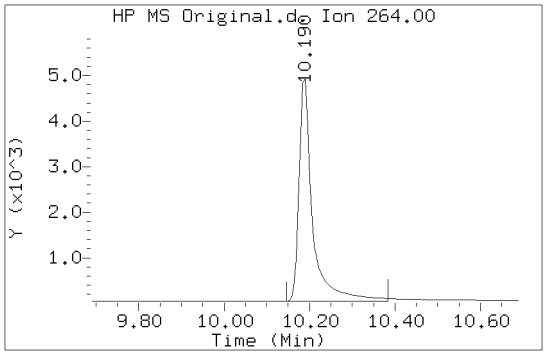



## Perylene-d12 (1520-96-3)

Reason Code:

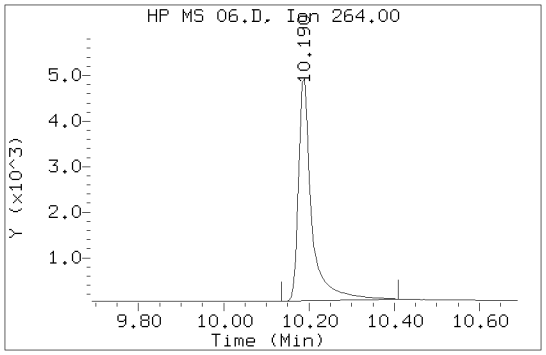
BEFORE

MASS
264
AREA
10683
HEIGHT
4875
18-Apr-2024
13:40
ALSHS
Server



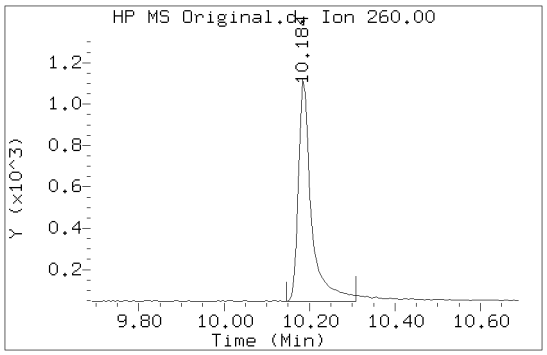

AFTER

MASS
264
AREA
10408
HEIGHT
4868
28-May-2024
13:05



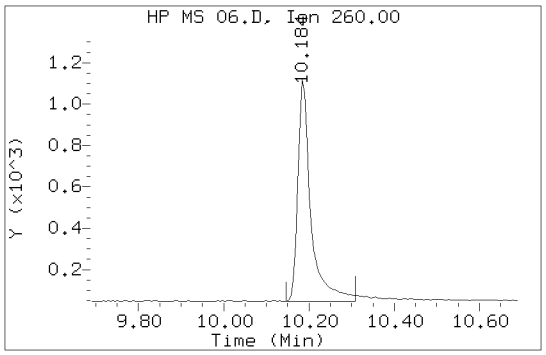

BEFORE

MASS
260
AREA
2254
HEIGHT
1070
18-Apr-2024
13:40
ALSHS
Server




AFTER

MASS
260
AREA
2254
HEIGHT
1070
28-May-2024
13:05



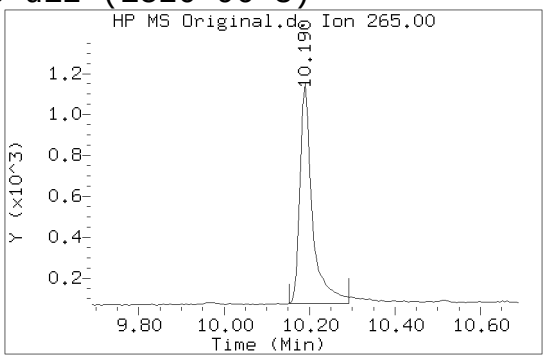
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

## Perylene-d12 (1520-96-3)

Reason Code:

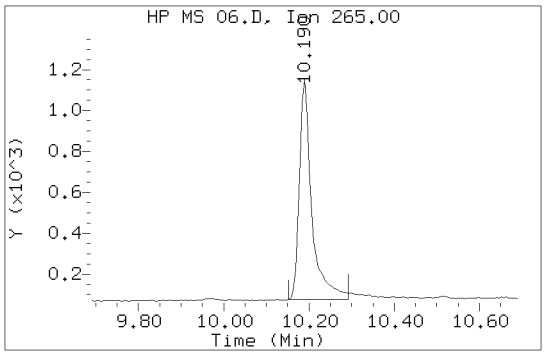
**BEFORE**

MASS
265
AREA
2161
HEIGHT
1074
18-Apr-2024
13:40
ALSHS
Server




**AFTER**

MASS
265
AREA
2161
HEIGHT
1074
28-May-2024
13:05

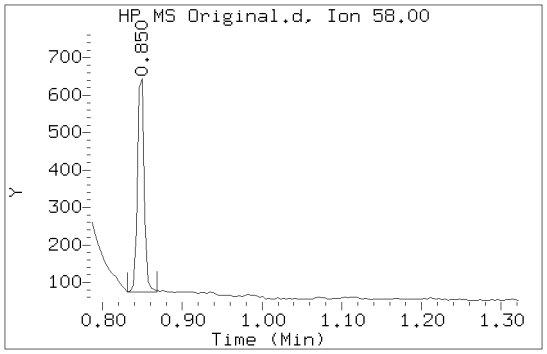



## 1,4-Dioxane ()

Reason Code:

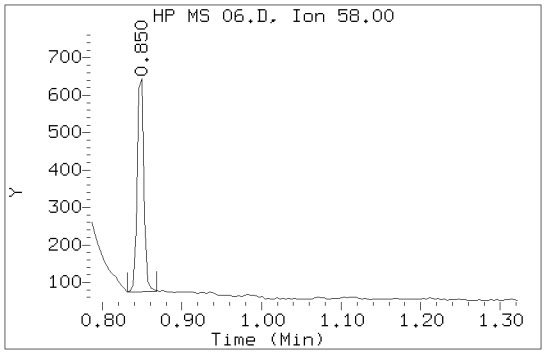
**BEFORE**

MASS
58
AREA
339
HEIGHT
569
18-Apr-2024
13:40
ALSHS
Server



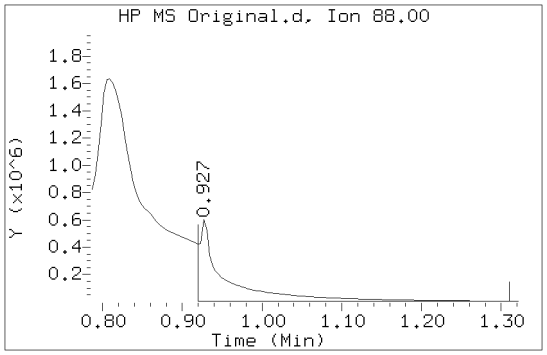

**AFTER**

MASS
58
AREA
339
HEIGHT
568
28-May-2024
13:05



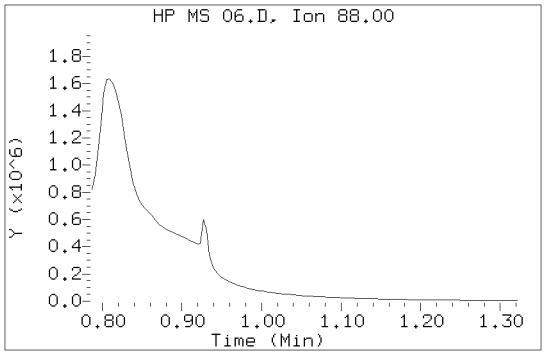

**BEFORE**

MASS
88
AREA
1337438
HEIGHT
596391
18-Apr-2024
13:40
ALSHS
Server




**AFTER**

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

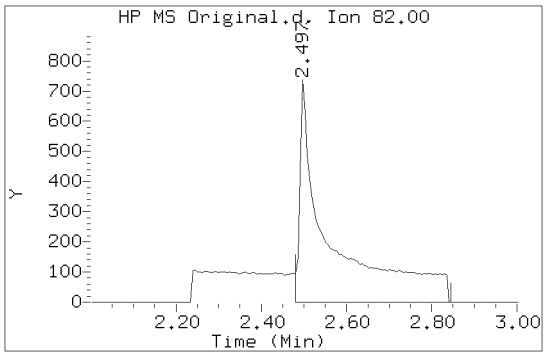



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

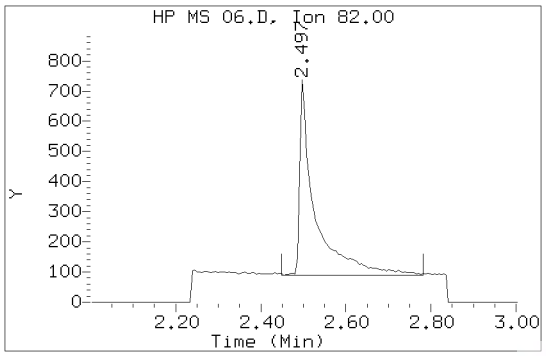
**BEFORE**

MASS
82
AREA
3516
HEIGHT
737
18-Apr-2024
13:40
ALSHS
Server




**AFTER**

MASS
82
AREA
1589
HEIGHT
647
28-May-2024
13:05



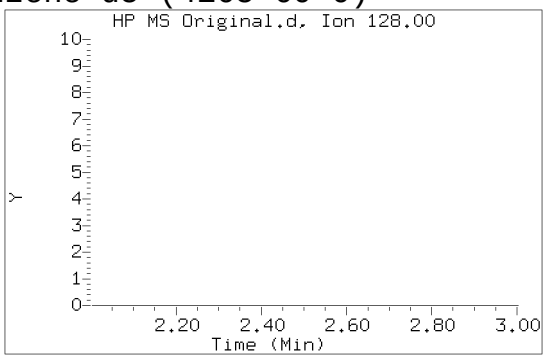
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

## Nitrobenzene-d5 (4165-60-0)

Reason Code:

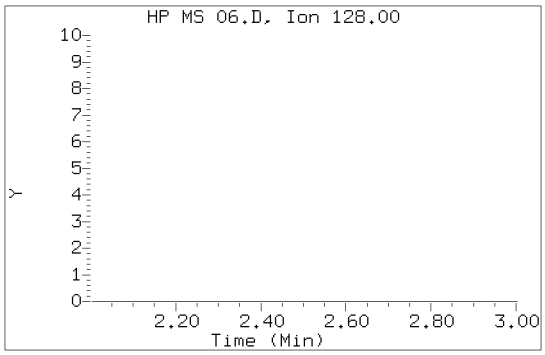
**BEFORE**

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server



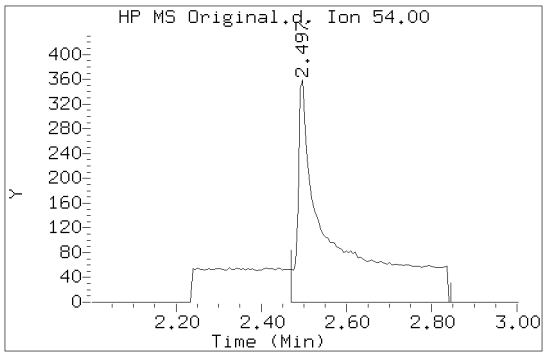

**AFTER**

MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



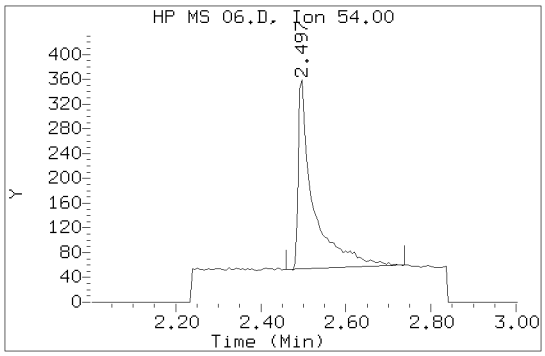

**BEFORE**

MASS
54
AREA
1999
HEIGHT
359
18-Apr-2024
13:40
ALSHS
Server




**AFTER**

MASS
54
AREA
745
HEIGHT
305
28-May-2024
13:05

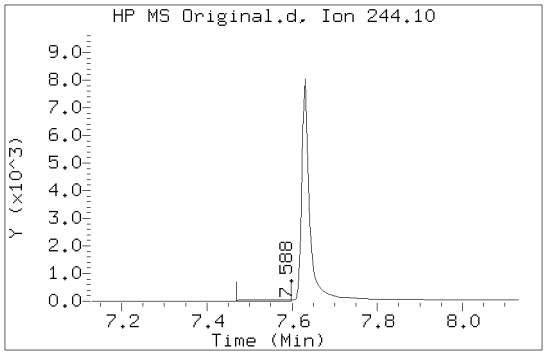



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

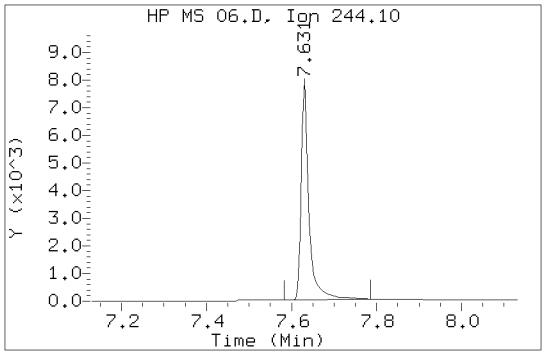
**BEFORE**

MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
13:40
ALSHS
Server



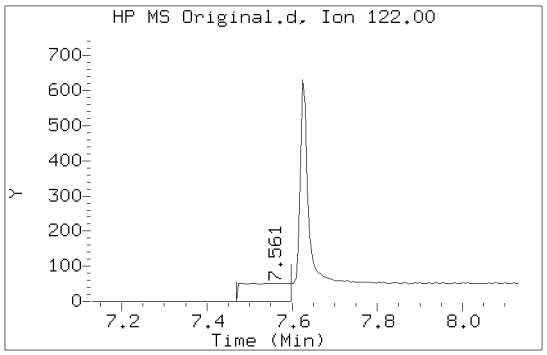

**AFTER**

MASS
244.1
AREA
10047
HEIGHT
7987
28-May-2024
13:05



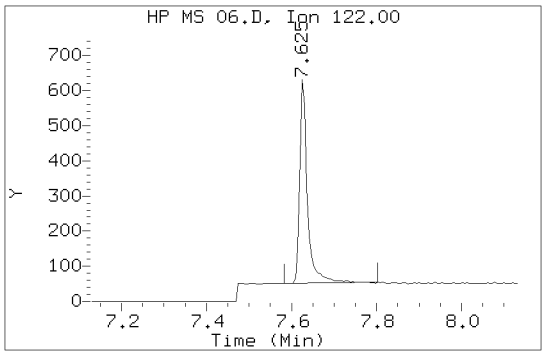

**BEFORE**

MASS
122
AREA
394
HEIGHT
52
18-Apr-2024
13:40
ALSHS
Server




**AFTER**

MASS
122
AREA
741
HEIGHT
579
28-May-2024
13:05



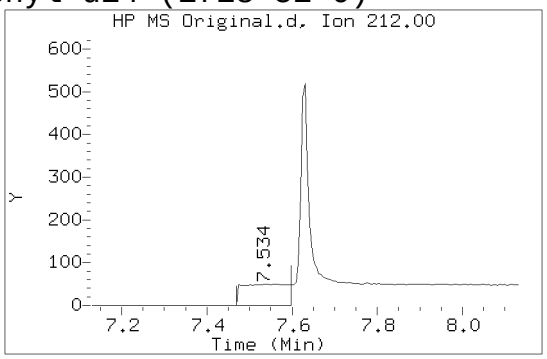
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

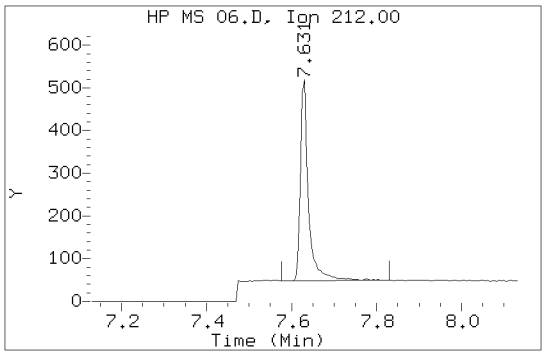
**BEFORE**

MASS
212
AREA
372
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server




**AFTER**

MASS
212
AREA
623
HEIGHT
470
28-May-2024
13:05

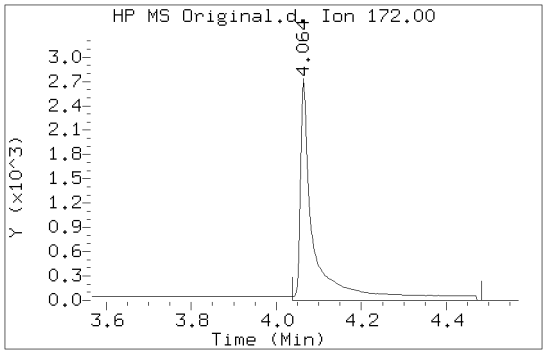



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

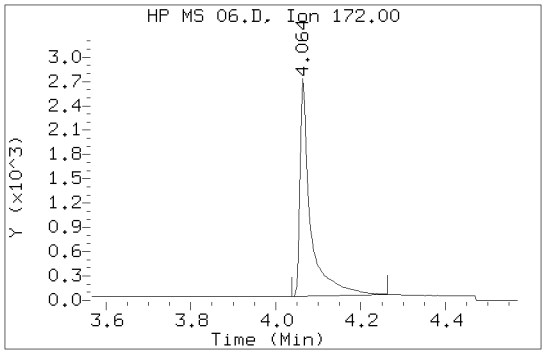
**BEFORE**

MASS
172
AREA
6214
HEIGHT
2735
18-Apr-2024
13:40
ALSHS
Server



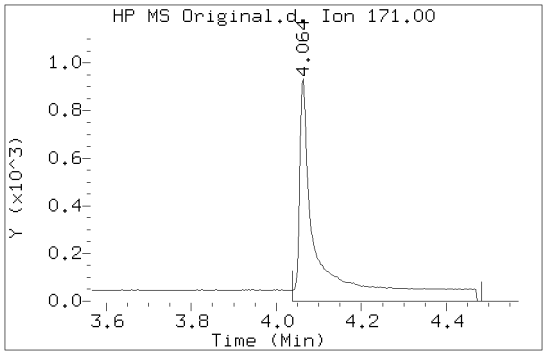

**AFTER**

MASS
172
AREA
4588
HEIGHT
2684
28-May-2024
13:05



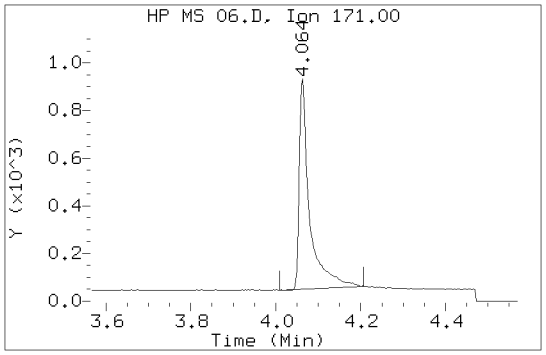

**BEFORE**

MASS
171
AREA
2920
HEIGHT
933
18-Apr-2024
13:40
ALSHS
Server




**AFTER**

MASS
171
AREA
1481
HEIGHT
881
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Lab Smp Id: 14DX-0.10
Inj Date : 18-APR-2024 13:42
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:42 Cal File: 07.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | AMOUNTS ON-COL ( NG) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 2.089 | 2.089 | (1.000) | 2318 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 3.076 | 3.076 | (1.000) | 7718 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.496 | 2.502 | (0.812) | 2452 | 0.10000 | 0.1058(M) |
| * 86 Acenaphthene-d10 | 164 | 4.665 | 4.671 | (1.000) | 4530 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 4.063 | 4.067 | (0.871) | 7366 | 0.10000 | 0.1064(M) |
| * 126 Phenanthrene-d10 | 188 | 6.065 | 6.065 | (1.000) | 8772 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 8.599 | 8.599 | (1.000) | 7453 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.630 | 7.630 | (0.887) | 15672 | 0.10000 | 0.1032(M) |
| * 198 Perylene-d12 | 264 | 10.189 | 10.189 | (1.000) | 7806 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 0.827 | 0.820 | (0.396) | 473 | 0.10000 | 0.09527(QM) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D



Date : 18-APR-2024 13:42

Client ID:

Instrument: SV6.i

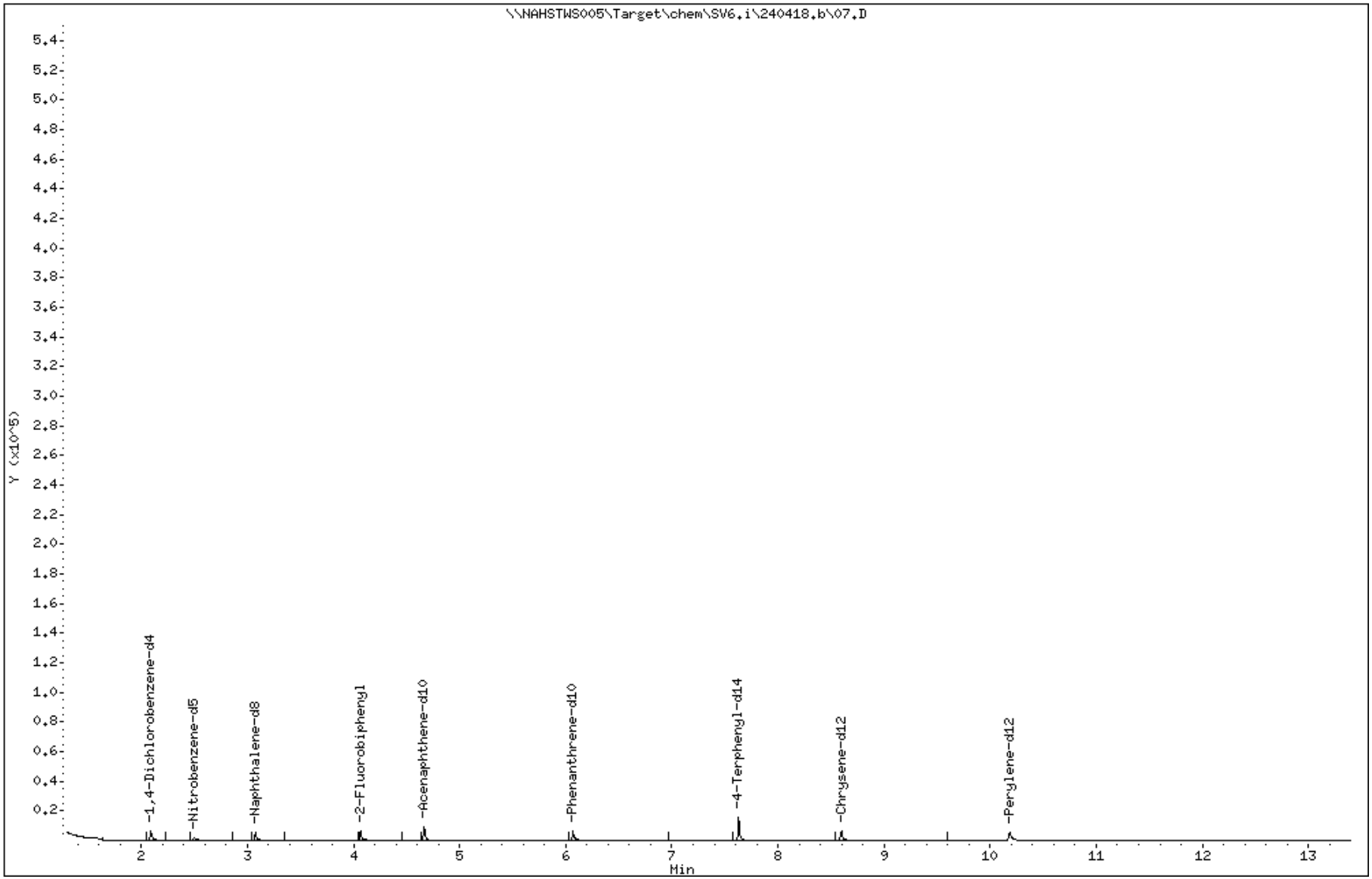
Sample Info: 14DX-0.10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

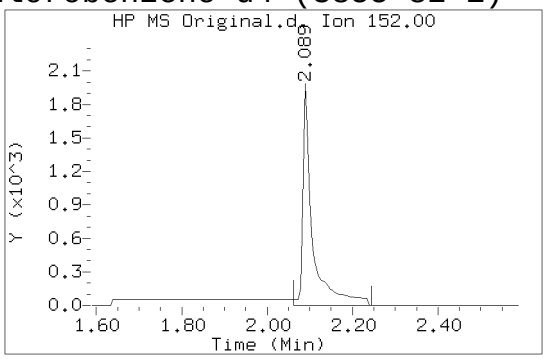


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

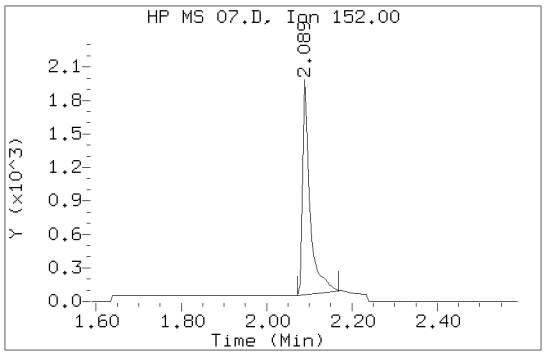
## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

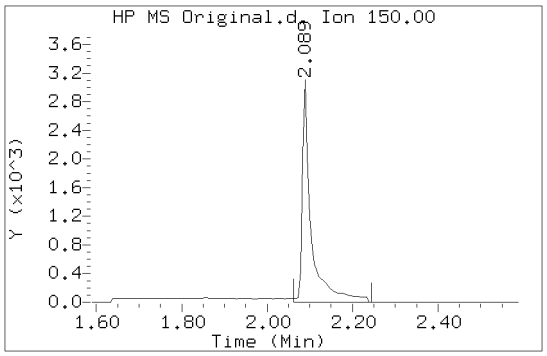
BEFORE
MASS
152
AREA
3091
HEIGHT
1986
18-Apr-2024
13:57
ALSHS
Server



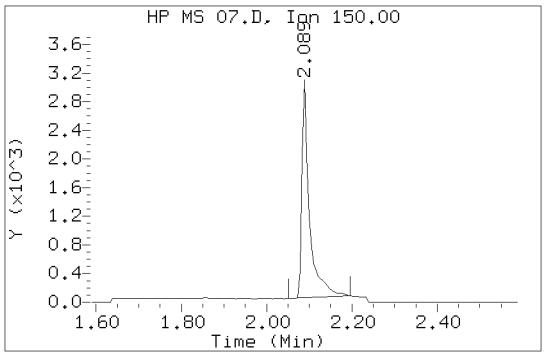

AFTER
MASS
152
AREA
2318
HEIGHT
1925
23-May-2024
08:54



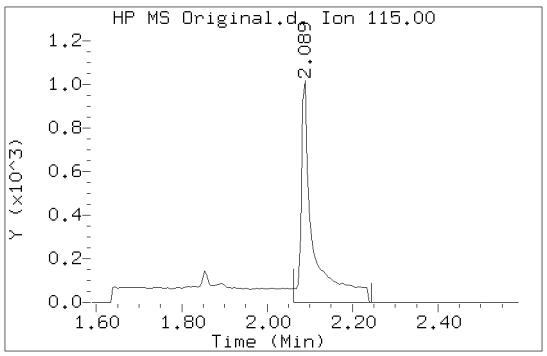

BEFORE
MASS
150
AREA
4519
HEIGHT
3105
18-Apr-2024
13:57
ALSHS
Server



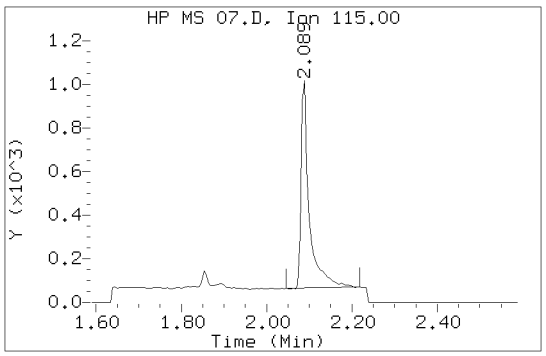

AFTER
MASS
150
AREA
3766
HEIGHT
3045
23-May-2024
08:54




BEFORE
MASS
115
AREA
1993
HEIGHT
1016
18-Apr-2024
13:57
ALSHS
Server



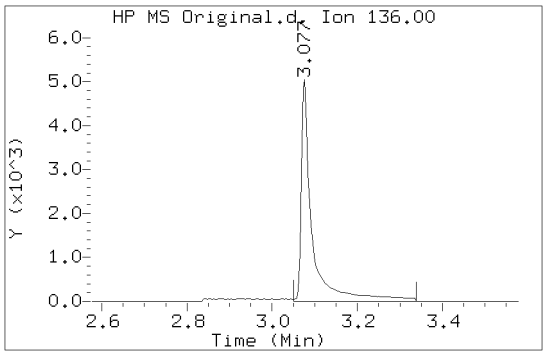

AFTER
MASS
115
AREA
1271
HEIGHT
950
23-May-2024
08:54



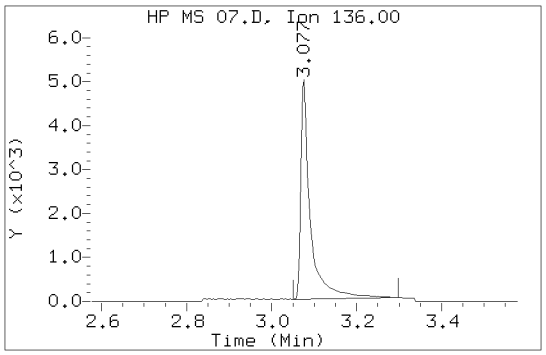

## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8891
HEIGHT
5045
18-Apr-2024
13:57
ALSHS
Server




AFTER
MASS
136
AREA
7718
HEIGHT
4990
23-May-2024
08:54



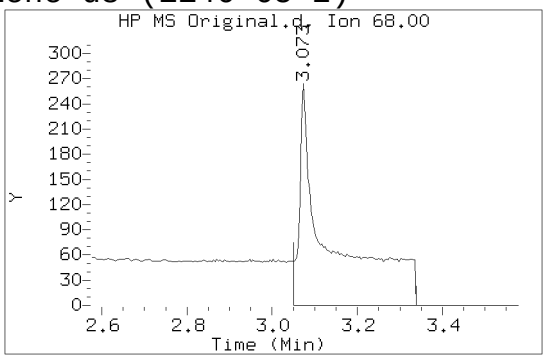
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

## Naphthalene-d8 (1146-65-2)

Reason Code:

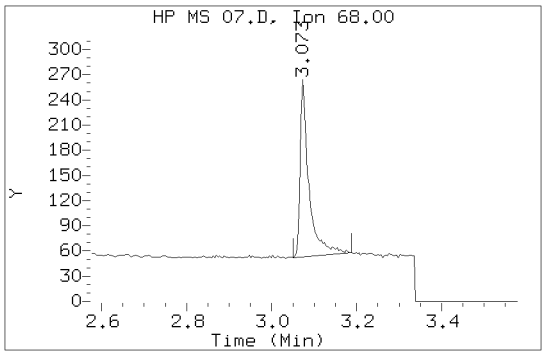
**BEFORE**

MASS
68
AREA
1251
HEIGHT
264
18-Apr-2024
13:57
ALSHS
Server




**AFTER**

MASS
68
AREA
296
HEIGHT
211
23-May-2024
08:54

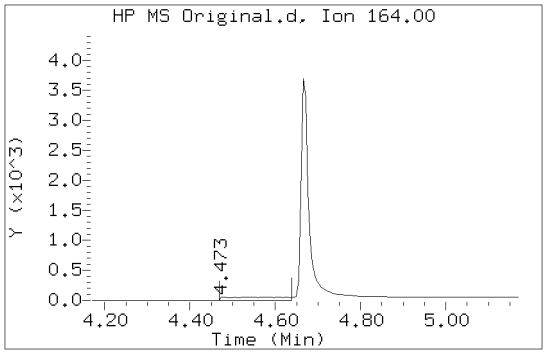



## Acenaphthene-d10 (15067-26-2)

Reason Code:

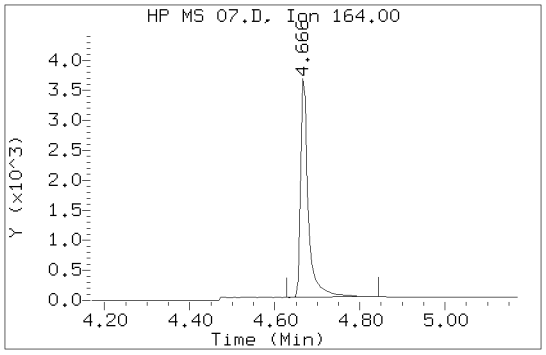
**BEFORE**

MASS
164
AREA
497
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server



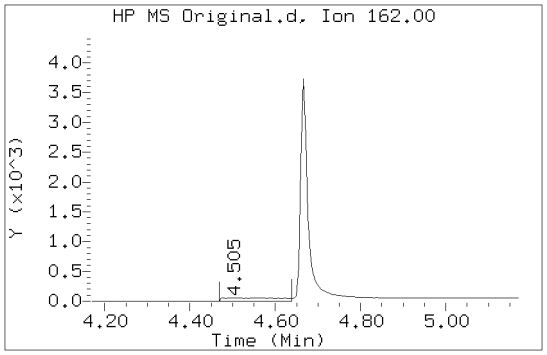

**AFTER**

MASS
164
AREA
4530
HEIGHT
3643
23-May-2024
08:54



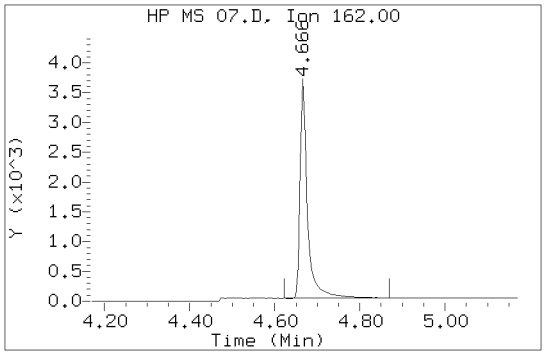

**BEFORE**

MASS
162
AREA
500
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



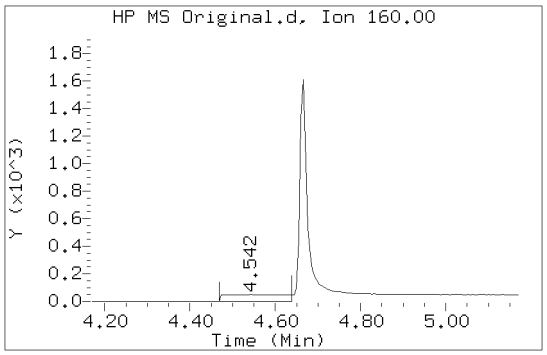

**AFTER**

MASS
162
AREA
4355
HEIGHT
3679
23-May-2024
08:54



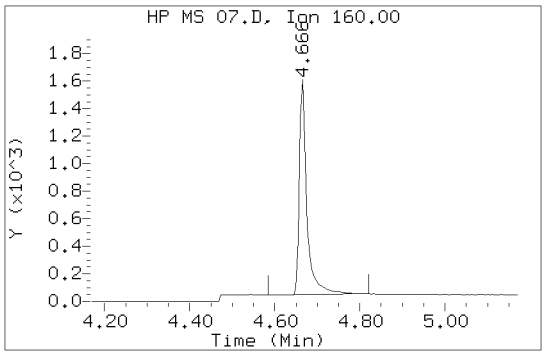

**BEFORE**

MASS
160
AREA
483
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server




**AFTER**

MASS
160
AREA
1883
HEIGHT
1560
23-May-2024
08:54



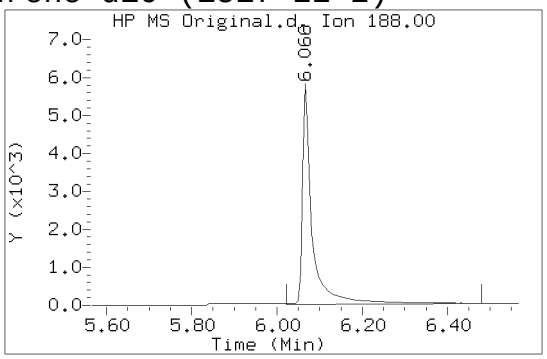
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

## Phenanthrene-d10 (1517-22-2)

Reason Code:

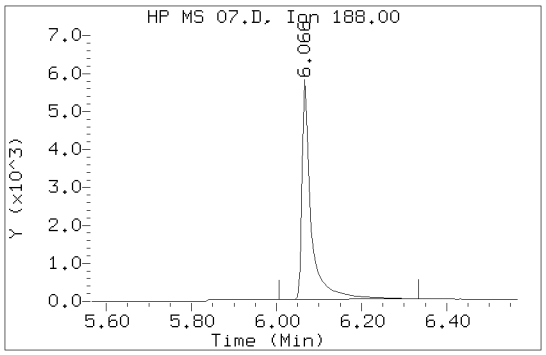
**BEFORE**

MASS
188
AREA
9529
HEIGHT
5821
18-Apr-2024
13:57
ALSHS
Server



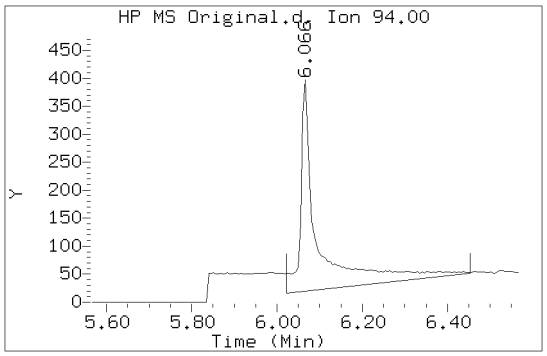

**AFTER**

MASS
188
AREA
8772
HEIGHT
5788
23-May-2024
08:54



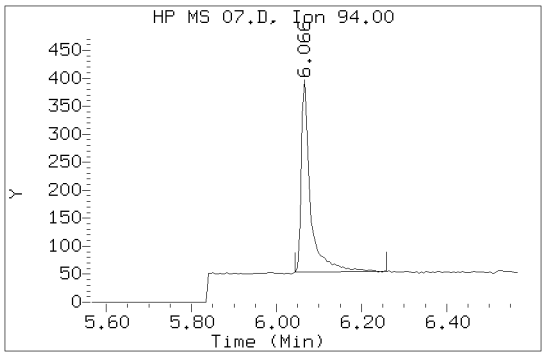

**BEFORE**

MASS
94
AREA
1042
HEIGHT
377
18-Apr-2024
13:57
ALSHS
Server



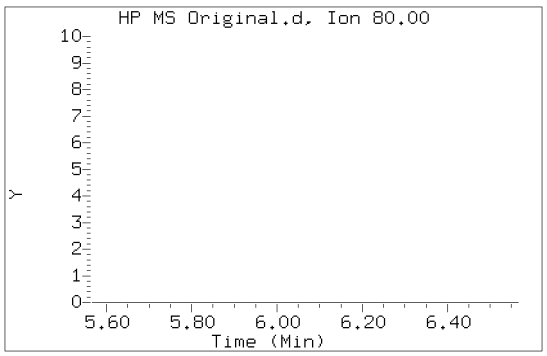

**AFTER**

MASS
94
AREA
518
HEIGHT
342
23-May-2024
08:54



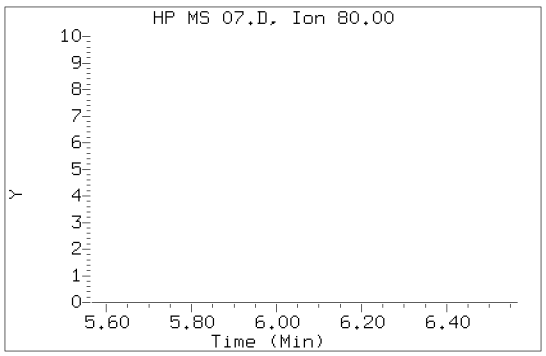

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
23-May-2024
08:54

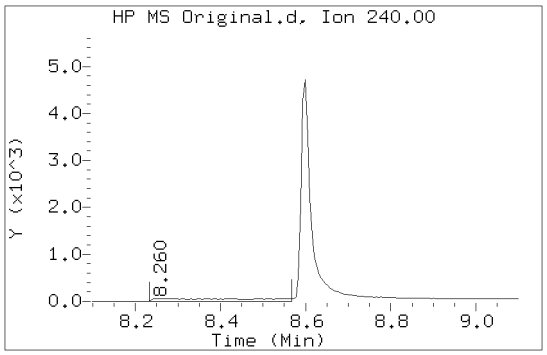



## Chrysene-d12 (1719-03-5)

Reason Code:

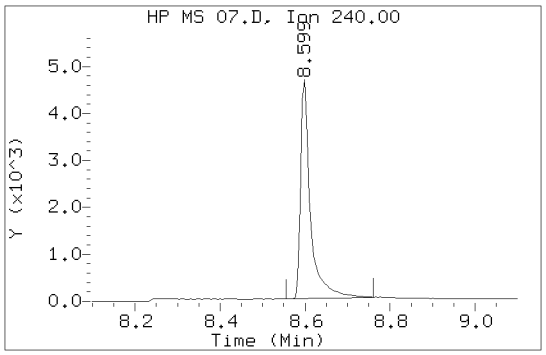
**BEFORE**

MASS
240
AREA
957
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server




**AFTER**

MASS
240
AREA
7453
HEIGHT
4662
23-May-2024
08:54



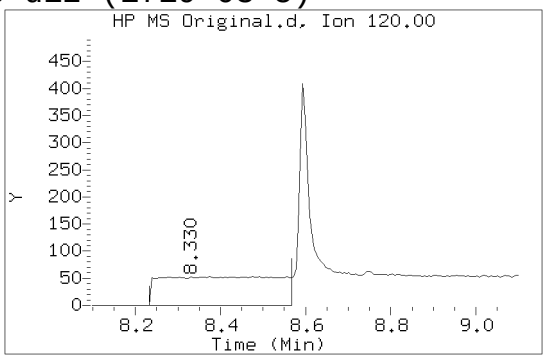
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

## Chrysene-d12 (1719-03-5)

Reason Code:

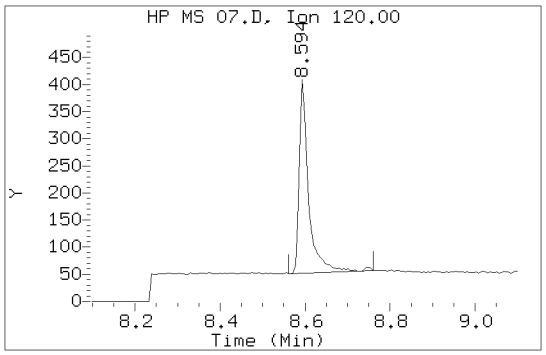
**BEFORE**

MASS
120
AREA
1029
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



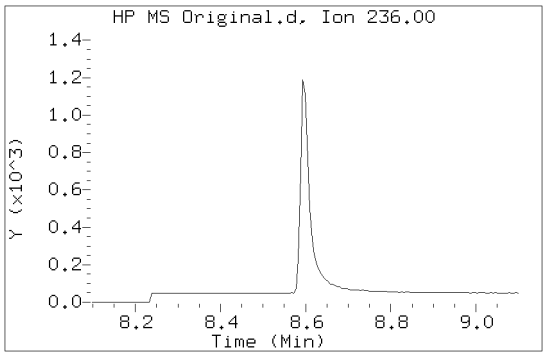

**AFTER**

MASS
120
AREA
541
HEIGHT
357
23-May-2024
08:54



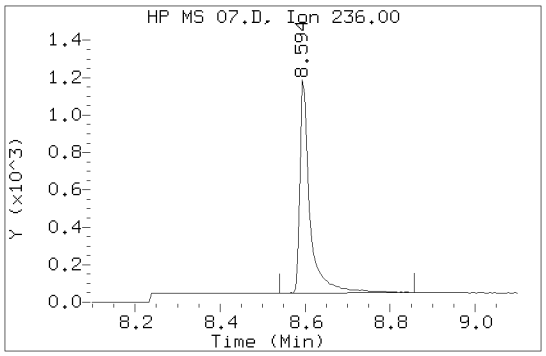

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server




**AFTER**

MASS
236
AREA
1875
HEIGHT
1139
23-May-2024
08:54

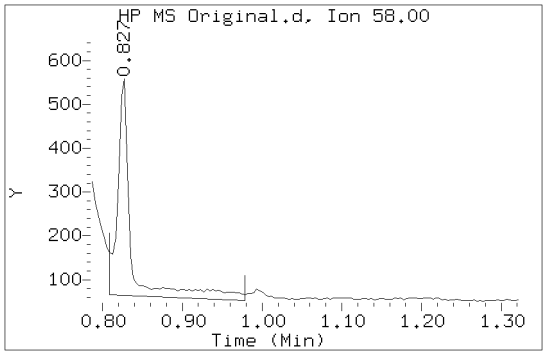



## 1,4-Dioxane ()

Reason Code:

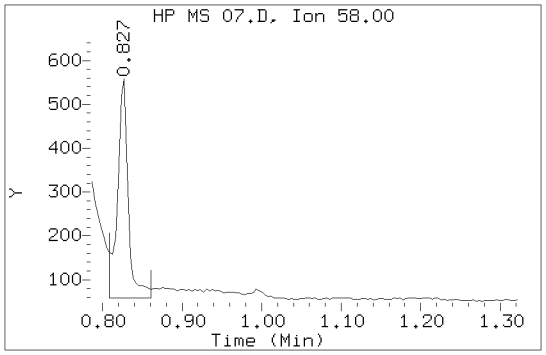
**BEFORE**

MASS
58
AREA
589
HEIGHT
493
18-Apr-2024
13:57
ALSHS
Server



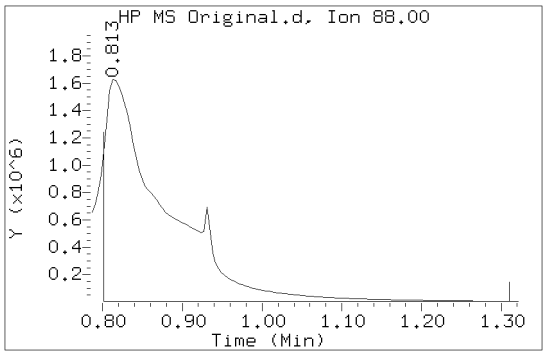

**AFTER**

MASS
58
AREA
473
HEIGHT
499
23-May-2024
08:54



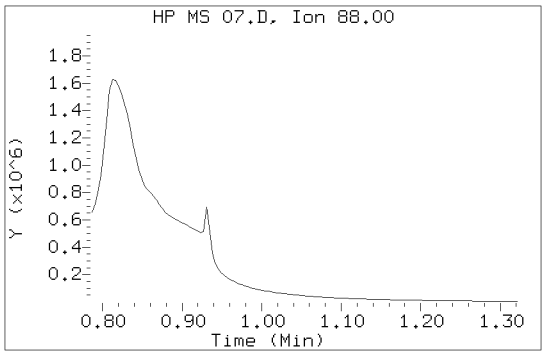

**BEFORE**

MASS
88
AREA
8266937
HEIGHT
1620371
18-Apr-2024
13:57
ALSHS
Server




**AFTER**

MASS
88
AREA
8281553
HEIGHT
1620838
23-May-2024
08:54



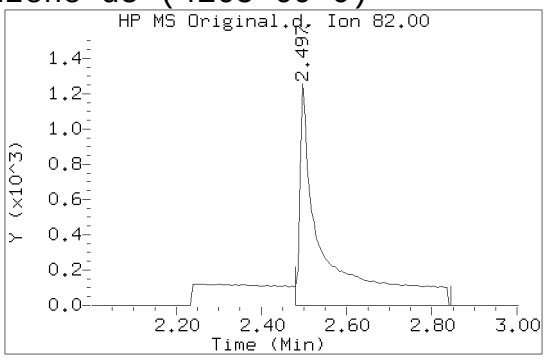
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

## Nitrobenzene-d5 (4165-60-0)

Reason Code:

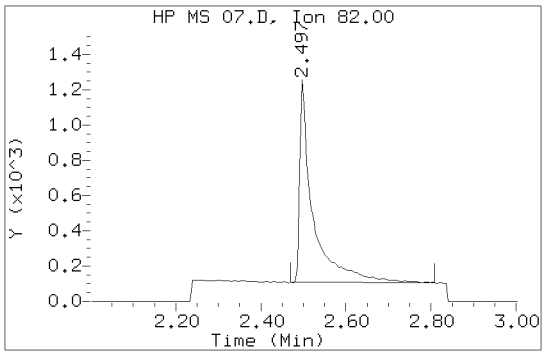
**BEFORE**

MASS
82
AREA
4733
HEIGHT
1257
18-Apr-2024
13:57
ALSHS
Server



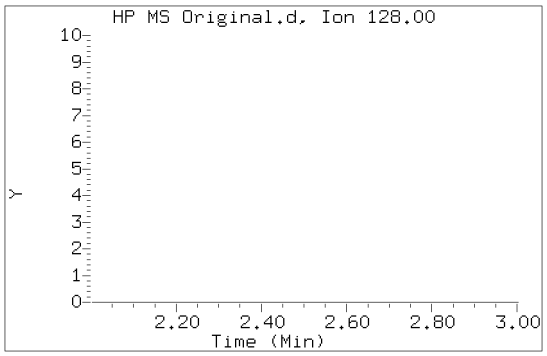

**AFTER**

MASS
82
AREA
2452
HEIGHT
1148
23-May-2024
08:54



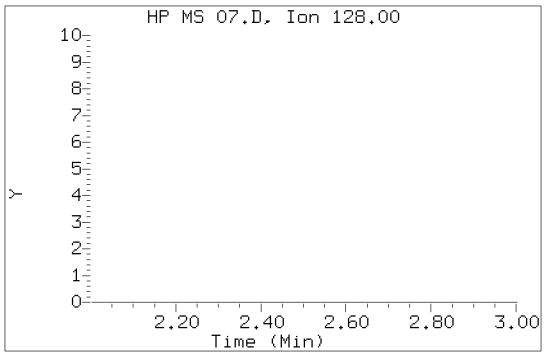

**BEFORE**

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



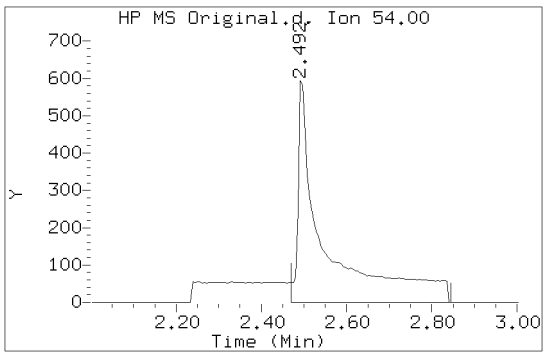

**AFTER**

MASS
128
AREA
0
HEIGHT
0
23-May-2024
08:54



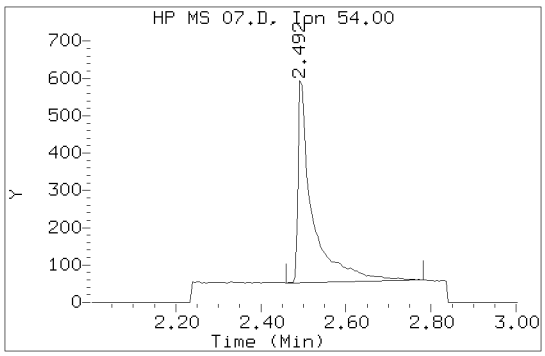

**BEFORE**

MASS
54
AREA
2506
HEIGHT
594
18-Apr-2024
13:57
ALSHS
Server




**AFTER**

MASS
54
AREA
1263
HEIGHT
541
23-May-2024
08:54

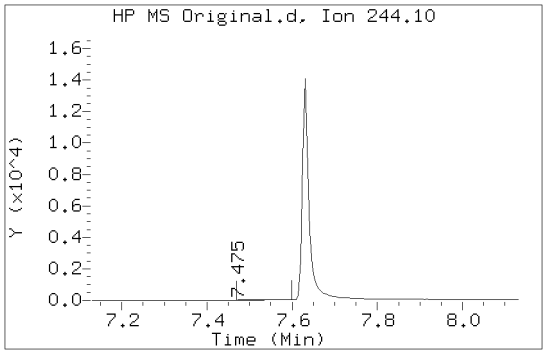



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

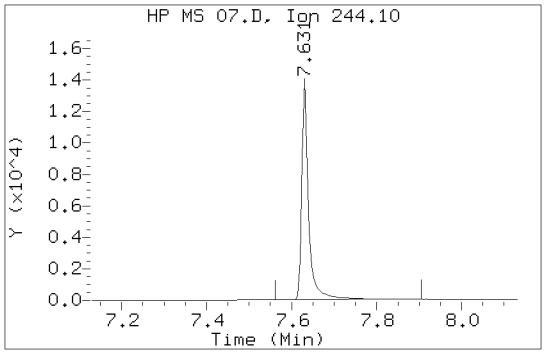
**BEFORE**

MASS
244.1
AREA
172
HEIGHT
45
18-Apr-2024
13:57
ALSHS
Server




**AFTER**

MASS
244.1
AREA
15672
HEIGHT
14035
23-May-2024
08:54



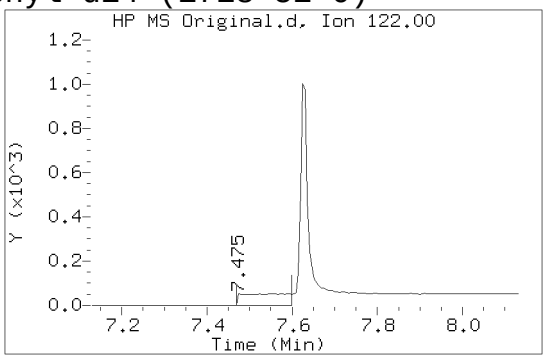
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

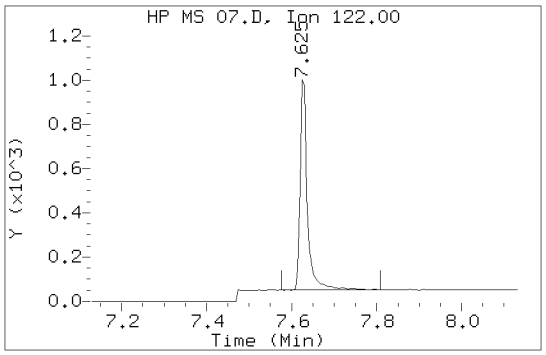
**BEFORE**

MASS
122
AREA
389
HEIGHT
51
18-Apr-2024
13:57
ALSHS
Server



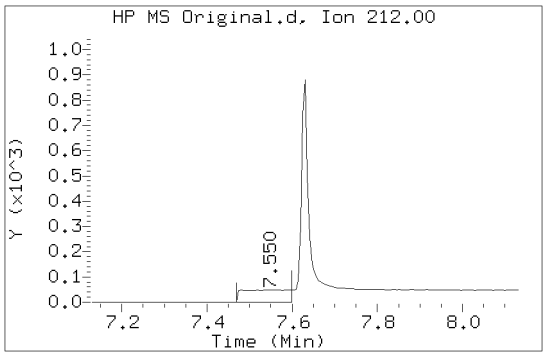

**AFTER**

MASS
122
AREA
1143
HEIGHT
950
23-May-2024
08:54



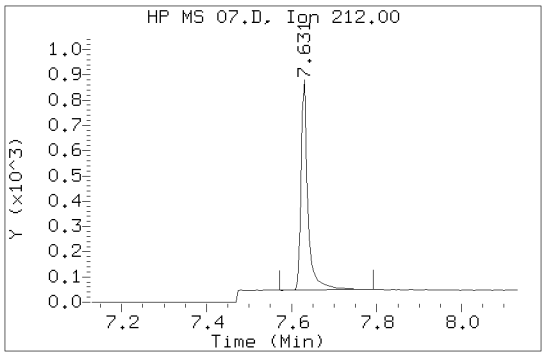

**BEFORE**

MASS
212
AREA
368
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server




**AFTER**

MASS
212
AREA
942
HEIGHT
831
23-May-2024
08:54

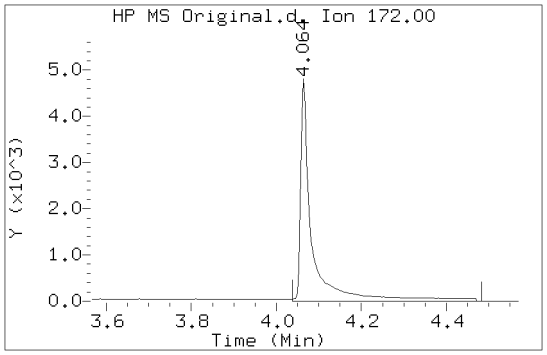



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

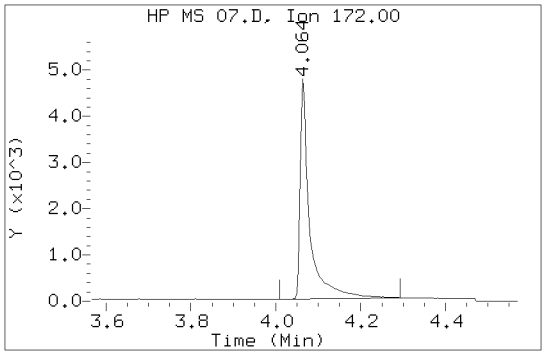
**BEFORE**

MASS
172
AREA
9042
HEIGHT
4809
18-Apr-2024
13:57
ALSHS
Server



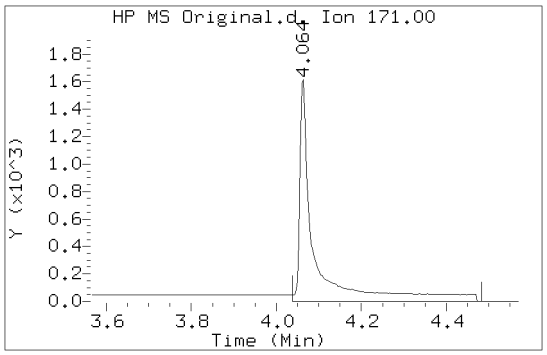

**AFTER**

MASS
172
AREA
7366
HEIGHT
4757
23-May-2024
08:54



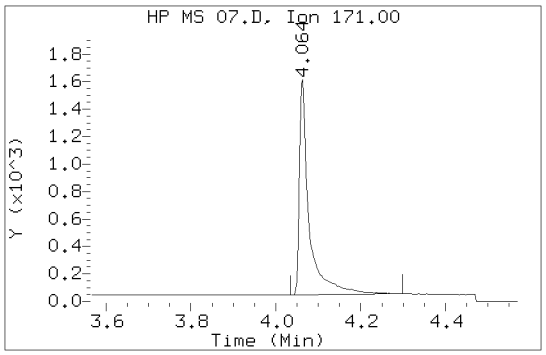

**BEFORE**

MASS
171
AREA
3879
HEIGHT
1615
18-Apr-2024
13:57
ALSHS
Server




**AFTER**

MASS
171
AREA
2501
HEIGHT
1566
23-May-2024
08:54



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Lab Smp Id: 14DX-0.15
Inj Date : 18-APR-2024 14:00
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:00 Cal File: 08.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

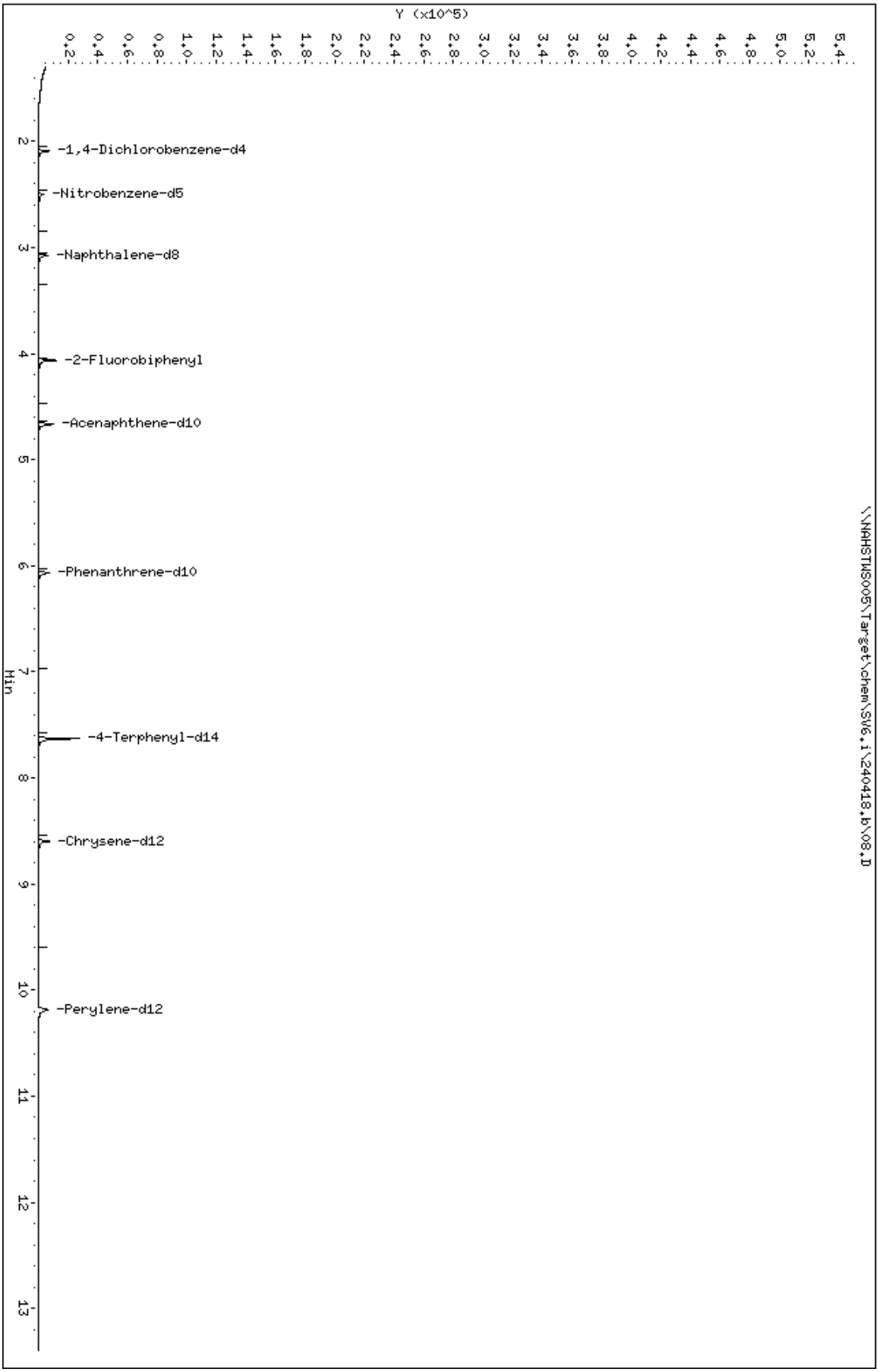
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | ON-COL ( NG) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 2.094 | 2.089 | (1.000) | 3084 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 3.076 | 3.076 | (1.000) | 9604 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.497 | 2.502 | (0.812) | 4499 | 0.15000 | 0.1560(AM) |
| * 86 Acenaphthene-d10 | 164 | 4.665 | 4.671 | (1.000) | 5448 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 4.064 | 4.067 | (0.871) | 13067 | 0.15000 | 0.1569(AM) |
| * 126 Phenanthrene-d10 | 188 | 6.066 | 6.065 | (1.000) | 10645 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 8.599 | 8.599 | (1.000) | 8954 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.630 | 7.630 | (0.887) | 27519 | 0.15000 | 0.1509(AM) |
| * 198 Perylene-d12 | 264 | 10.189 | 10.189 | (1.000) | 9228 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 0.842 | 0.820 | (0.402) | 984 | 0.15000 | 0.1490(QM) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.




Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Date : 18-APR-2024 14:00
Client ID:
Sample Info: 14DX-0.15
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

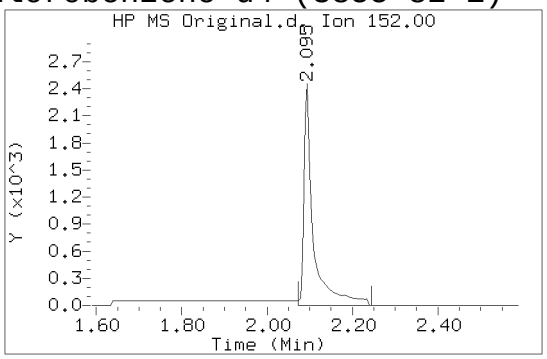
Instrument: SV6.i
Operator: LG
Column diameter: 0.28

Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

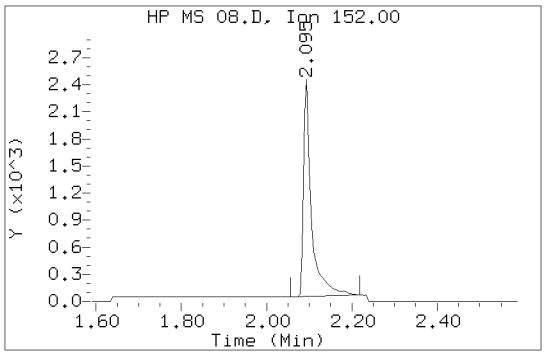
## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

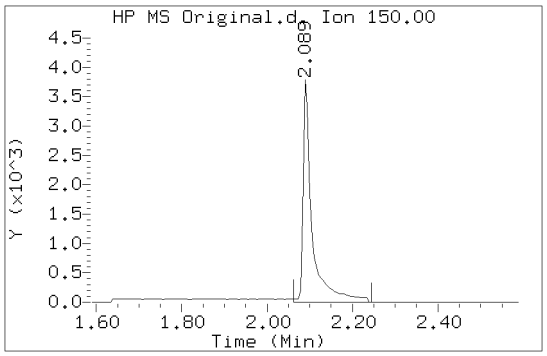
BEFORE
MASS
152
AREA
3705
HEIGHT
2456
18-Apr-2024
14:16
ALSHS
Server



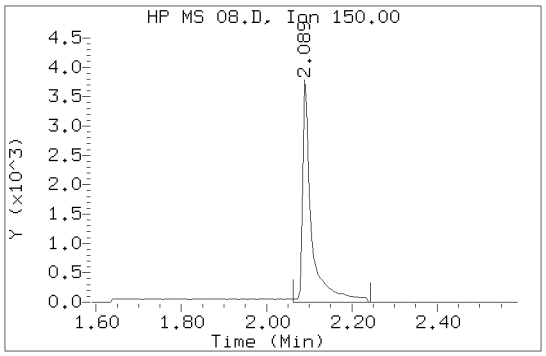

AFTER
MASS
152
AREA
3084
HEIGHT
2400
28-May-2024
13:05



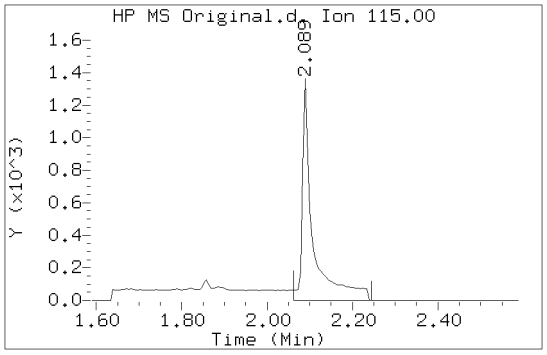

BEFORE
MASS
150
AREA
5535
HEIGHT
3786
18-Apr-2024
14:16
ALSHS
Server



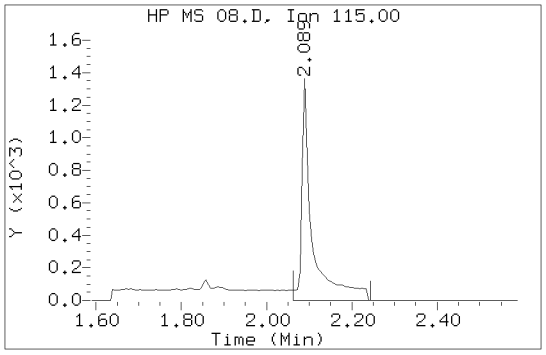

AFTER
MASS
150
AREA
5535
HEIGHT
3786
28-May-2024
13:05




BEFORE
MASS
115
AREA
2326
HEIGHT
1363
18-Apr-2024
14:16
ALSHS
Server



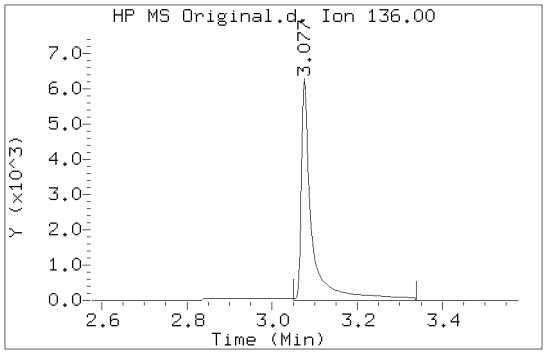

AFTER
MASS
115
AREA
2326
HEIGHT
1363
28-May-2024
13:05



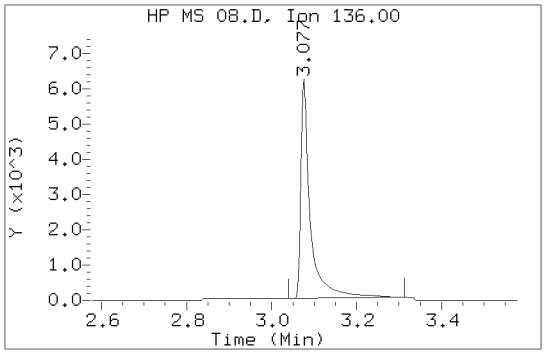

## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10787
HEIGHT
6291
18-Apr-2024
14:16
ALSHS
Server




AFTER
MASS
136
AREA
9604
HEIGHT
6235
28-May-2024
13:05



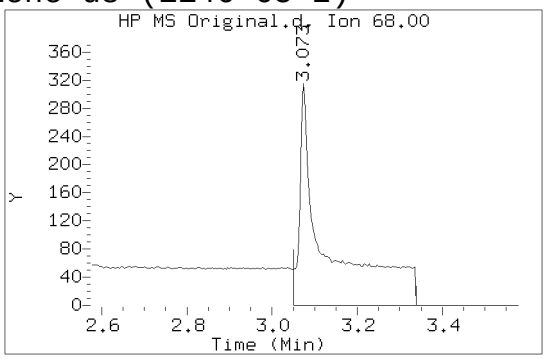
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

## Naphthalene-d8 (1146-65-2)

Reason Code:

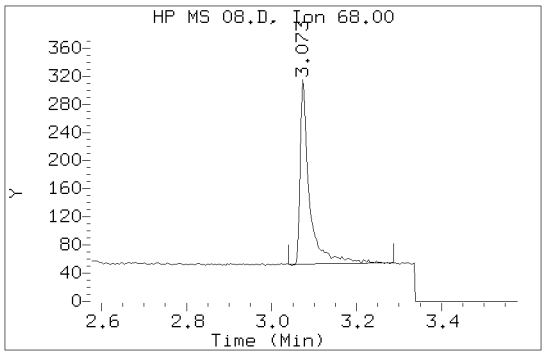
**BEFORE**

MASS
68
AREA
1324
HEIGHT
315
18-Apr-2024
14:16
ALSHS
Server




**AFTER**

MASS
68
AREA
389
HEIGHT
261
28-May-2024
13:05

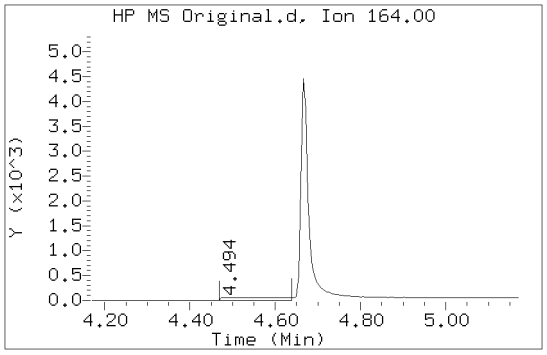



## Acenaphthene-d10 (15067-26-2)

Reason Code:

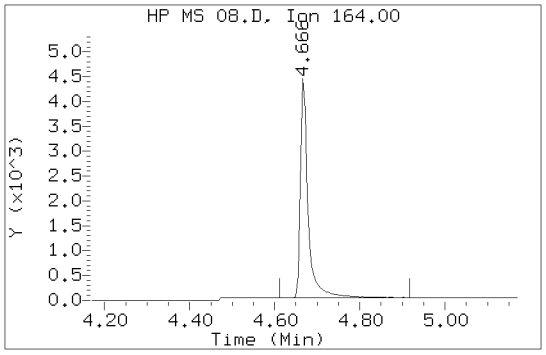
**BEFORE**

MASS
164
AREA
496
HEIGHT
50
18-Apr-2024
14:16
ALSHS
Server



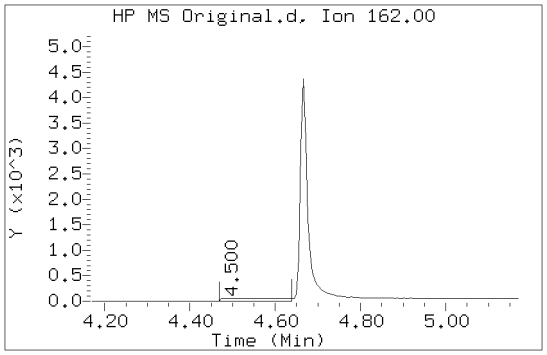

**AFTER**

MASS
164
AREA
5448
HEIGHT
4411
28-May-2024
13:05



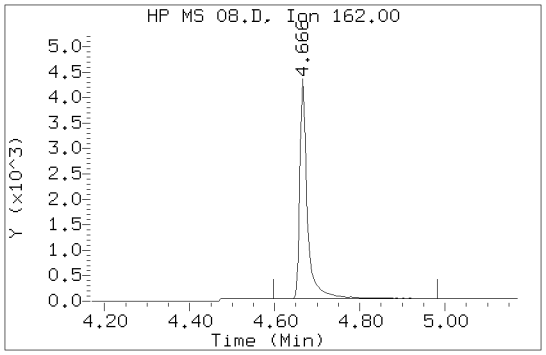

**BEFORE**

MASS
162
AREA
496
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server



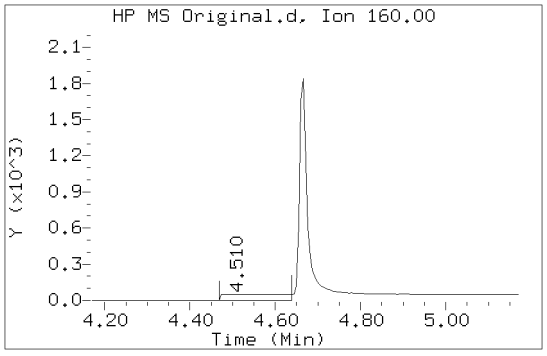

**AFTER**

MASS
162
AREA
5277
HEIGHT
4319
28-May-2024
13:05



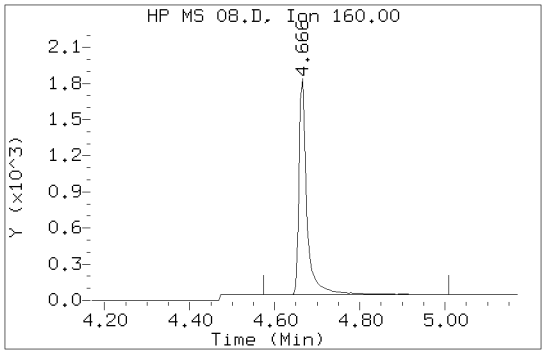

**BEFORE**

MASS
160
AREA
482
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server




**AFTER**

MASS
160
AREA
2305
HEIGHT
1792
28-May-2024
13:05



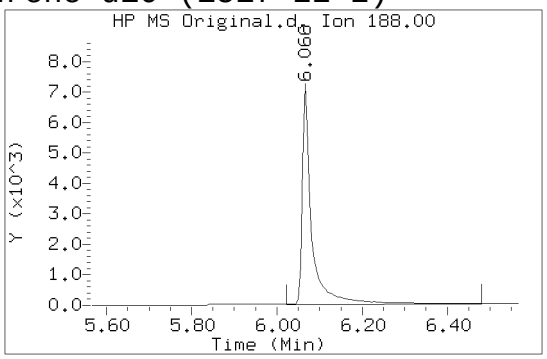
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

## Phenanthrene-d10 (1517-22-2)

Reason Code:

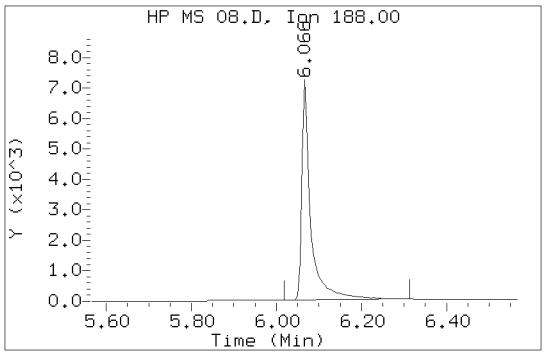
**BEFORE**

MASS
188
AREA
11494
HEIGHT
7257
18-Apr-2024
14:16
ALSHS
Server



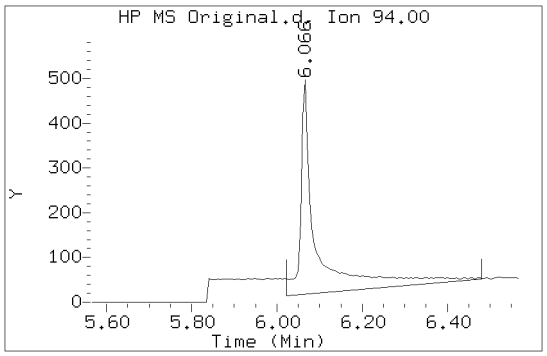

**AFTER**

MASS
188
AREA
10645
HEIGHT
7224
28-May-2024
13:05



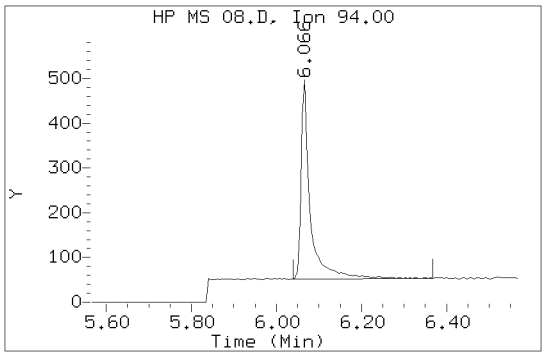

**BEFORE**

MASS
94
AREA
1207
HEIGHT
478
18-Apr-2024
14:16
ALSHS
Server



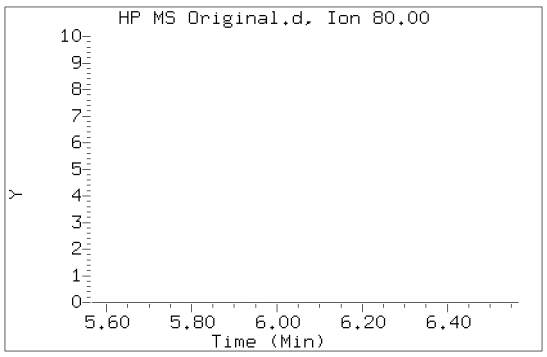

**AFTER**

MASS
94
AREA
674
HEIGHT
444
28-May-2024
13:05



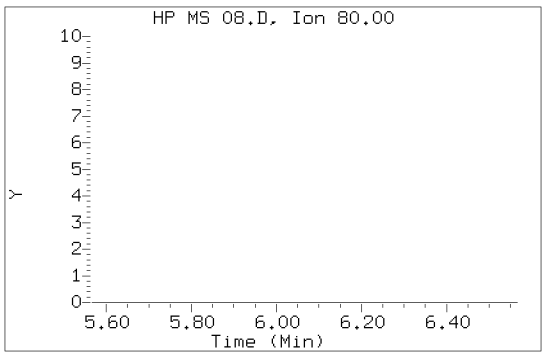

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

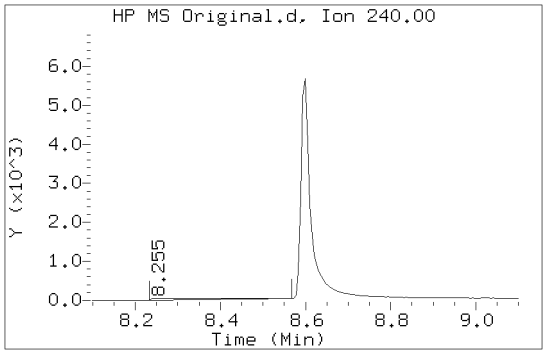



## Chrysene-d12 (1719-03-5)

Reason Code:

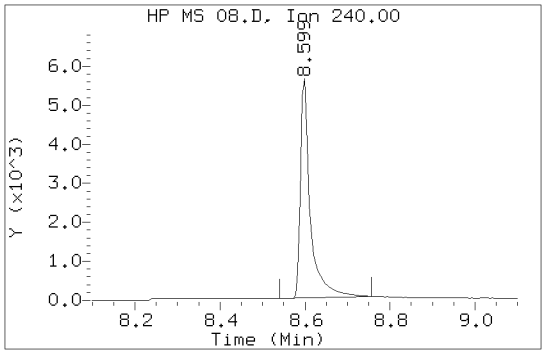
**BEFORE**

MASS
240
AREA
453
HEIGHT
46
18-Apr-2024
14:16
ALSHS
Server




**AFTER**

MASS
240
AREA
8954
HEIGHT
5618
28-May-2024
13:05



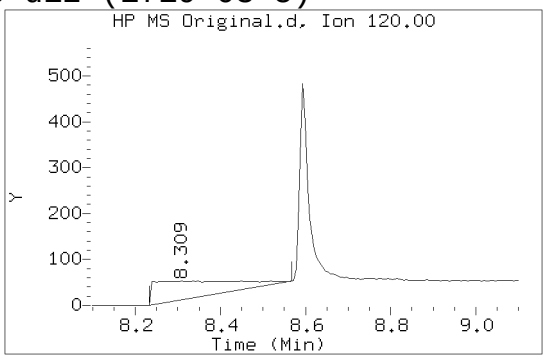
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

## Chrysene-d12 (1719-03-5)

Reason Code:

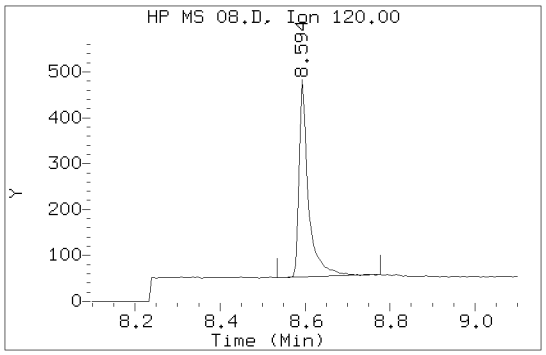
**BEFORE**

MASS
120
AREA
491
HEIGHT
41
18-Apr-2024
14:16
ALSHS
Server



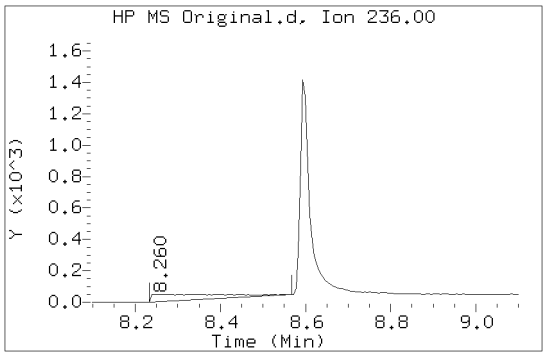

**AFTER**

MASS
120
AREA
640
HEIGHT
429
28-May-2024
13:05



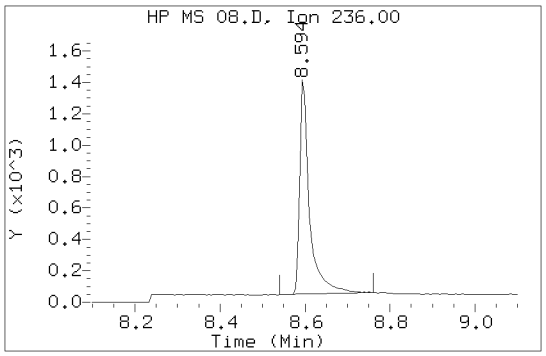

**BEFORE**

MASS
236
AREA
459
HEIGHT
45
18-Apr-2024
14:16
ALSHS
Server




**AFTER**

MASS
236
AREA
2175
HEIGHT
1364
28-May-2024
13:05

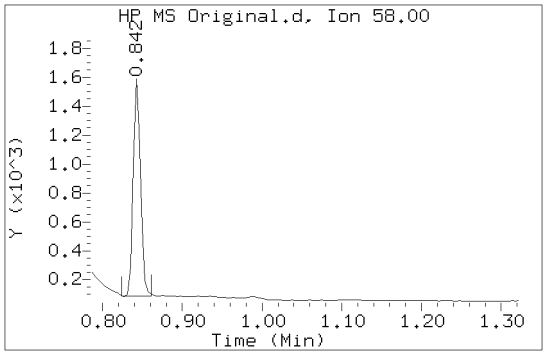



## 1,4-Dioxane ()

Reason Code:

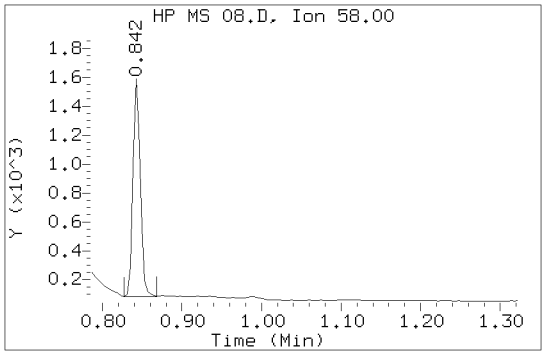
**BEFORE**

MASS
58
AREA
972
HEIGHT
1502
18-Apr-2024
14:16
ALSHS
Server



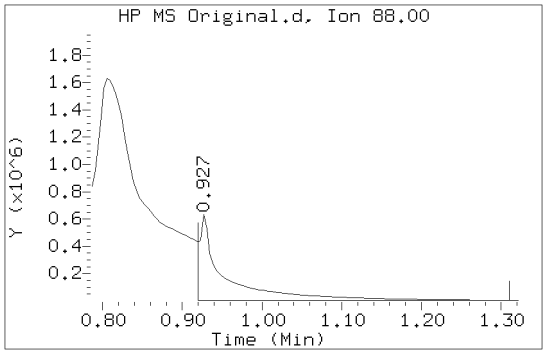

**AFTER**

MASS
58
AREA
984
HEIGHT
1506
28-May-2024
13:05



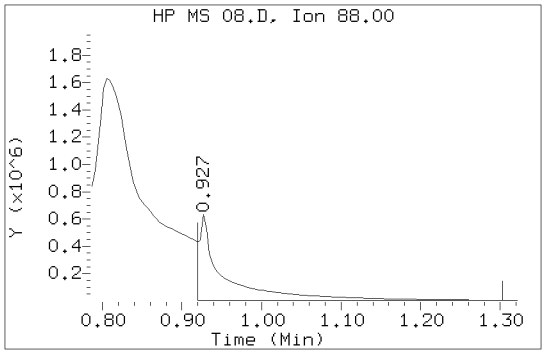

**BEFORE**

MASS
88
AREA
1391687
HEIGHT
630804
18-Apr-2024
14:16
ALSHS
Server




**AFTER**

MASS
88
AREA
1385982
HEIGHT
630559
28-May-2024
13:05



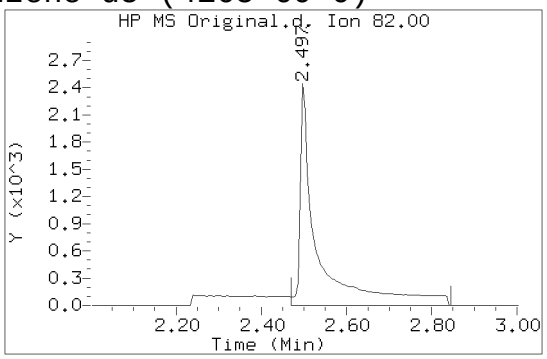
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

## Nitrobenzene-d5 (4165-60-0)

Reason Code:

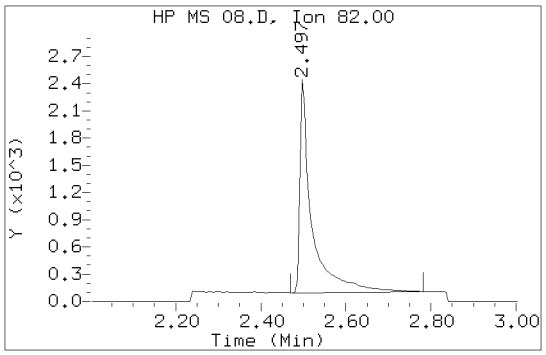
**BEFORE**

MASS
82
AREA
6726
HEIGHT
2444
18-Apr-2024
14:16
ALSHS
Server



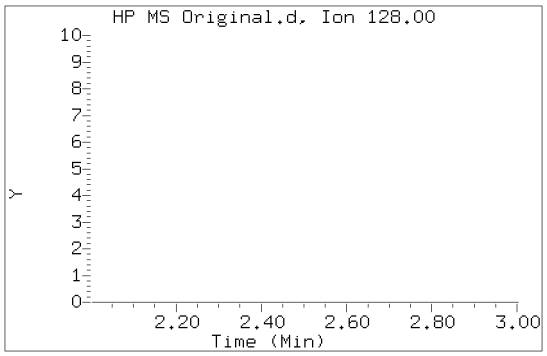

**AFTER**

MASS
82
AREA
4499
HEIGHT
2348
28-May-2024
13:05



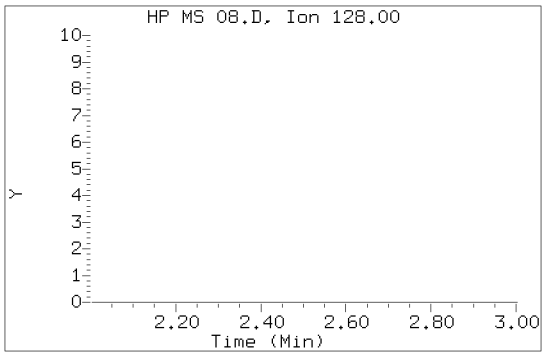

**BEFORE**

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server



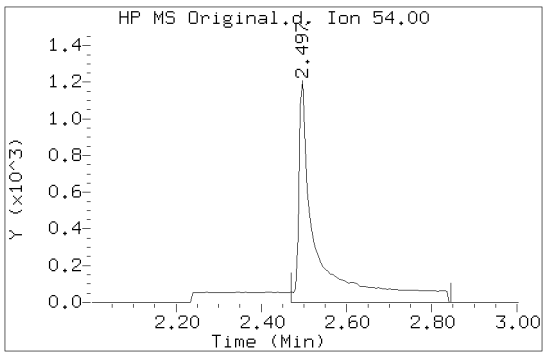

**AFTER**

MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



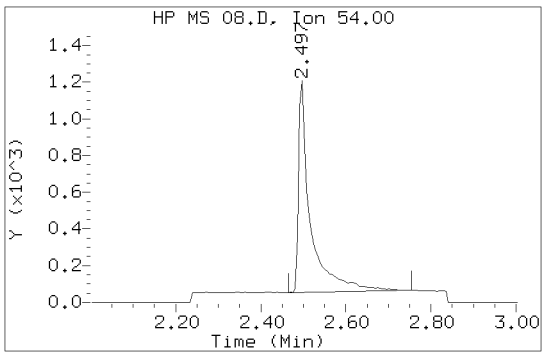

**BEFORE**

MASS
54
AREA
3552
HEIGHT
1208
18-Apr-2024
14:16
ALSHS
Server




**AFTER**

MASS
54
AREA
2217
HEIGHT
1153
28-May-2024
13:05

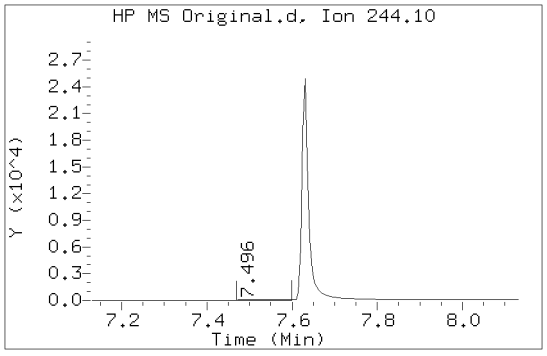



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

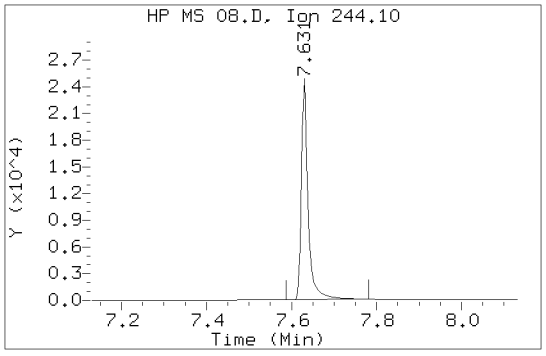
**BEFORE**

MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server




**AFTER**

MASS
244.1
AREA
27519
HEIGHT
24848
28-May-2024
13:05



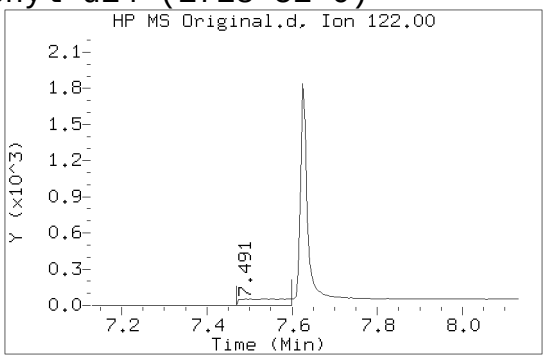
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

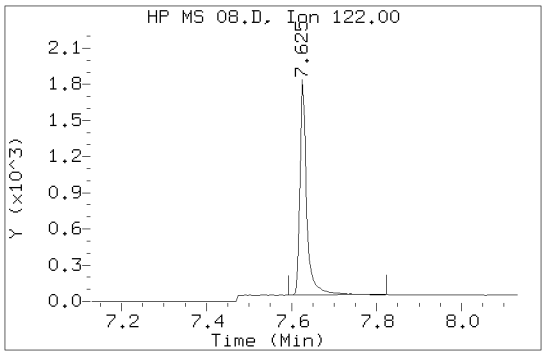
**BEFORE**

MASS
122
AREA
391
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server



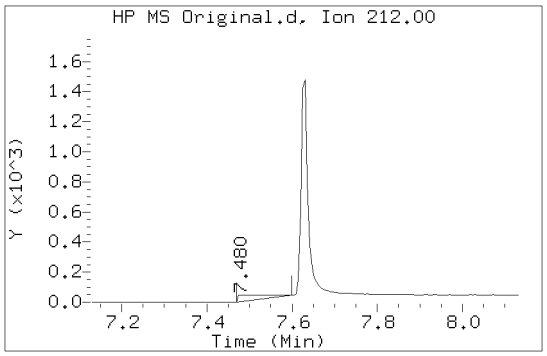

**AFTER**

MASS
122
AREA
2002
HEIGHT
1786
28-May-2024
13:05



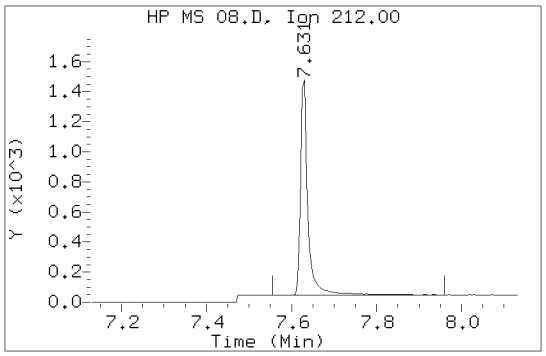

**BEFORE**

MASS
212
AREA
175
HEIGHT
44
18-Apr-2024
14:16
ALSHS
Server




**AFTER**

MASS
212
AREA
1733
HEIGHT
1429
28-May-2024
13:05

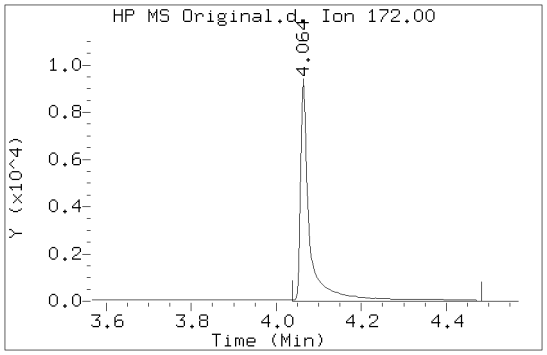



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

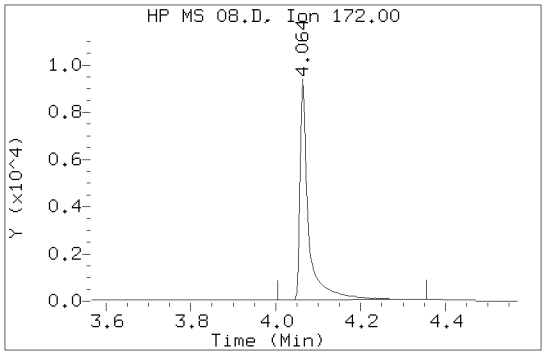
**BEFORE**

MASS
172
AREA
14843
HEIGHT
9413
18-Apr-2024
14:16
ALSHS
Server



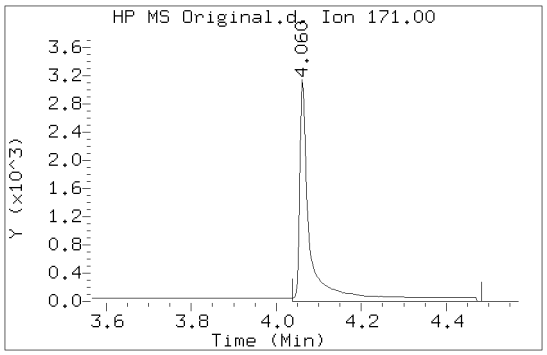

**AFTER**

MASS
172
AREA
13067
HEIGHT
9360
28-May-2024
13:05



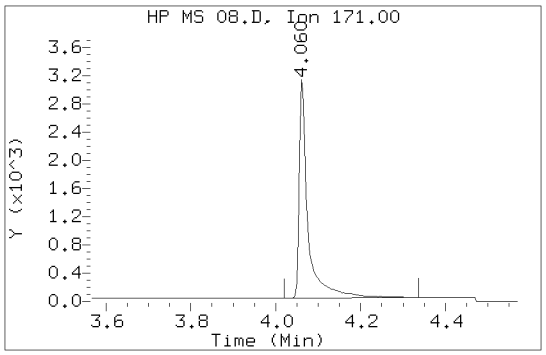

**BEFORE**

MASS
171
AREA
5828
HEIGHT
3145
18-Apr-2024
14:16
ALSHS
Server




**AFTER**

MASS
171
AREA
4411
HEIGHT
3096
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Lab Smp Id: 14DX-0.20
Inj Date : 18-APR-2024 14:18
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.20
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:18 Cal File: 09.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

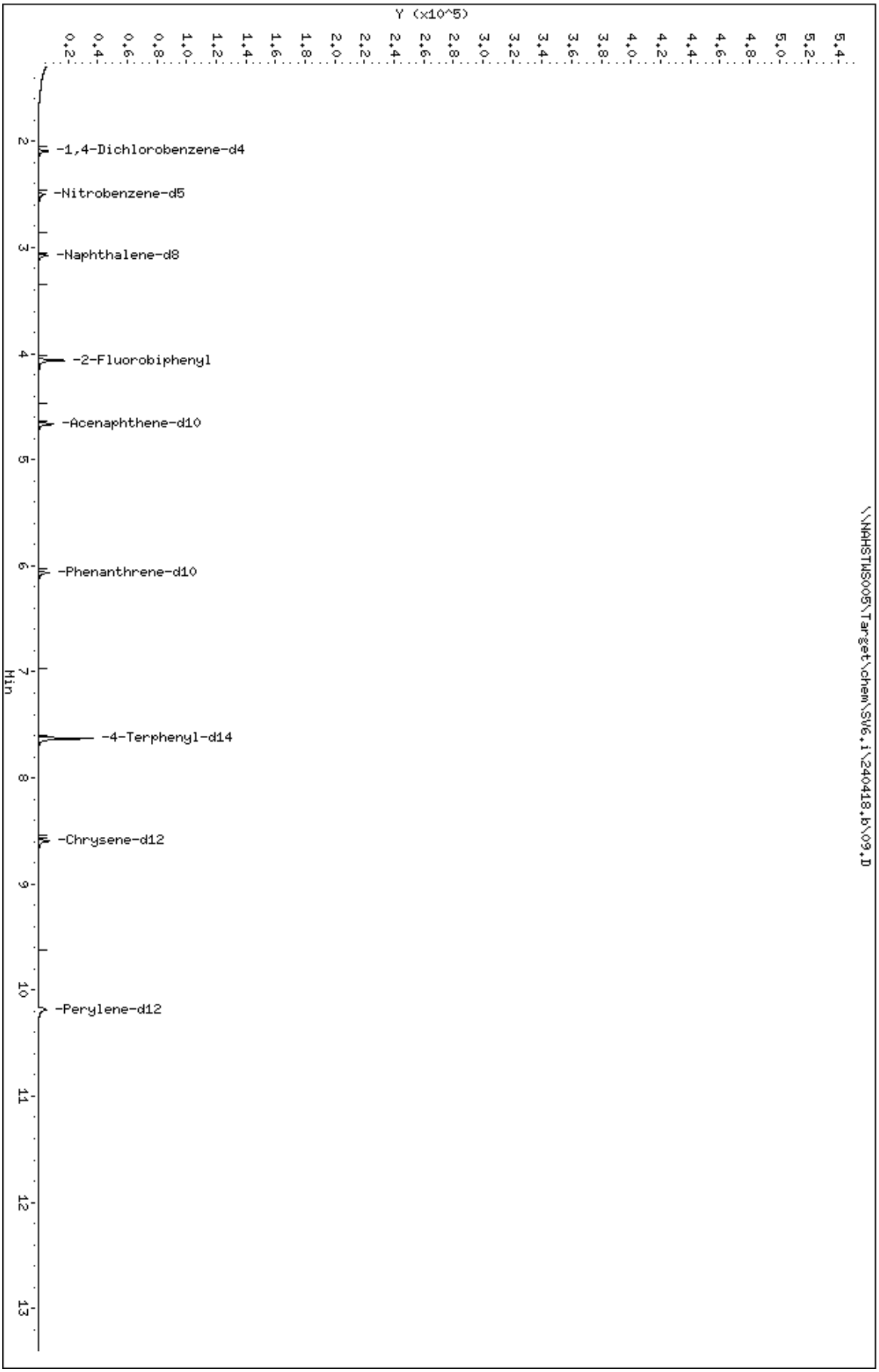
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | ON-COL ( NG) |
|---|---|---|---|---|---|---|---|---|
| * | 20 1,4-Dichlorobenzene-d4 | 152 | 2.094 | 2.089 | (1.000) | 2896 | 0.10000 | (aM) |
| * | 45 Naphthalene-d8 | 136 | 3.076 | 3.076 | (1.000) | 9147 | 0.10000 | (M) |
| $ | 33 Nitrobenzene-d5 | 82 | 2.496 | 2.502 | (0.812) | 5927 | 0.20000 | 0.2158(AM) |
| * | 86 Acenaphthene-d10 | 164 | 4.665 | 4.671 | (1.000) | 5593 | 0.10000 | (M) |
| $ | 69 2-Fluorobiphenyl | 172 | 4.064 | 4.067 | (0.871) | 17331 | 0.20000 | 0.2027(AM) |
| * | 126 Phenanthrene-d10 | 188 | 6.065 | 6.065 | (1.000) | 10775 | 0.10000 | (M) |
| * | 182 Chrysene-d12 | 240 | 8.593 | 8.599 | (1.000) | 9063 | 0.10000 | (M) |
| $ | 158 4-Terphenyl-d14 | 244 | 7.630 | 7.630 | (0.888) | 39718 | 0.20000 | 0.2151(AM) |
| * | 198 Perylene-d12 | 264 | 10.184 | 10.189 | (1.000) | 8962 | 0.10000 | (M) |
| | 1 1,4-Dioxane | 58 | 0.845 | 0.820 | (0.404) | 1268 | 0.20000 | 0.2044(QM) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Date : 18-APR-2024 14:18
Client ID:
Sample Info: 14DX-0.20
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28

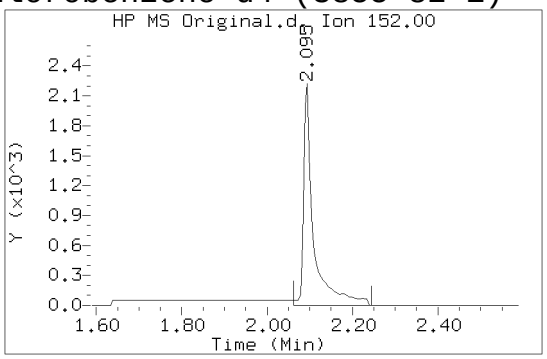


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

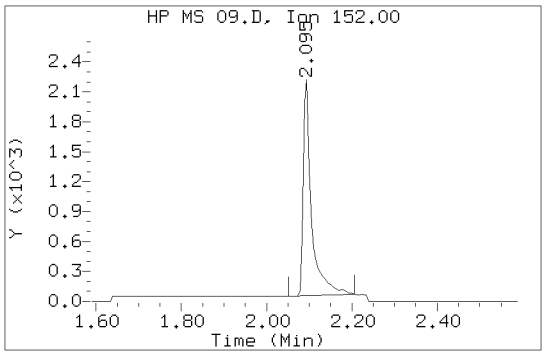
## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

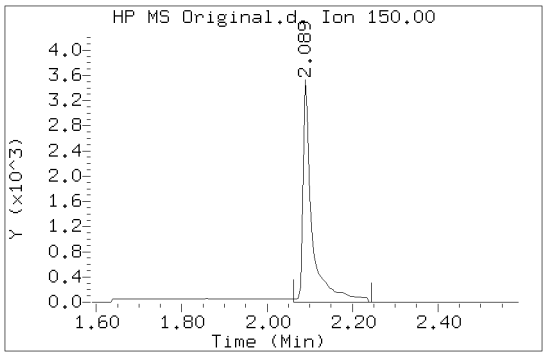
BEFORE
MASS
152
AREA
3565
HEIGHT
2222
18-Apr-2024
14:31
ALSHS
Server



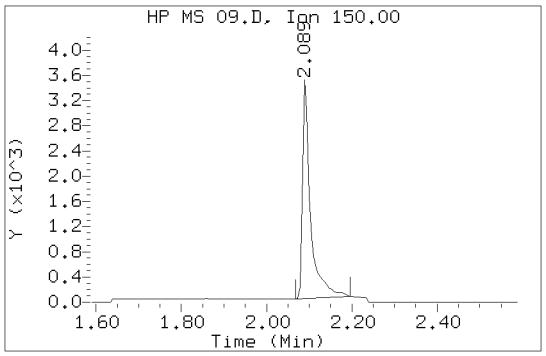

AFTER
MASS
152
AREA
2896
HEIGHT
2165
23-May-2024
08:54



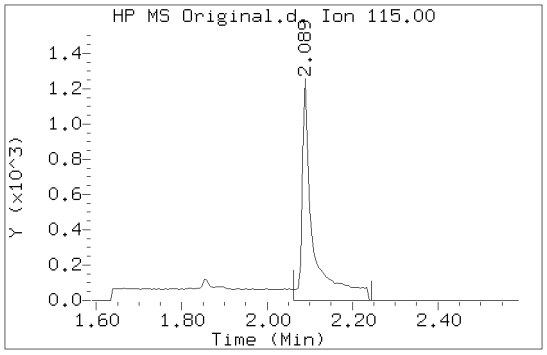

BEFORE
MASS
150
AREA
5268
HEIGHT
3527
18-Apr-2024
14:31
ALSHS
Server



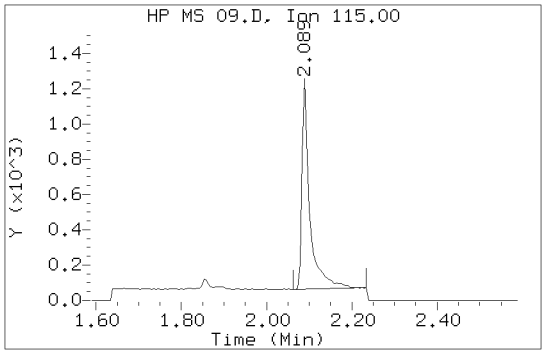

AFTER
MASS
150
AREA
4498
HEIGHT
3469
23-May-2024
08:54




BEFORE
MASS
115
AREA
2227
HEIGHT
1257
18-Apr-2024
14:31
ALSHS
Server



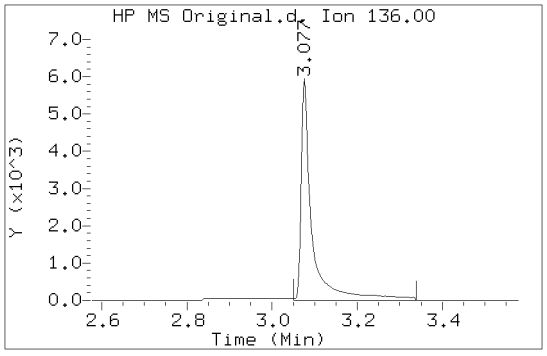

AFTER
MASS
115
AREA
1525
HEIGHT
1194
23-May-2024
08:54



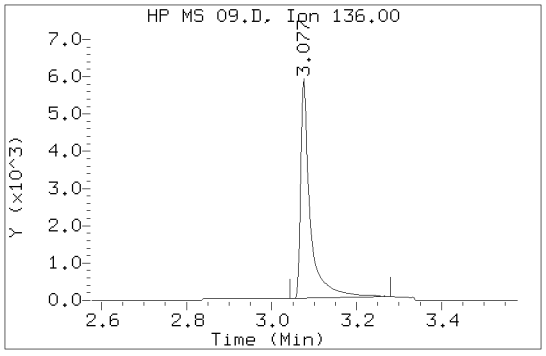

## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10466
HEIGHT
5947
18-Apr-2024
14:31
ALSHS
Server




AFTER
MASS
136
AREA
9147
HEIGHT
5889
23-May-2024
08:54

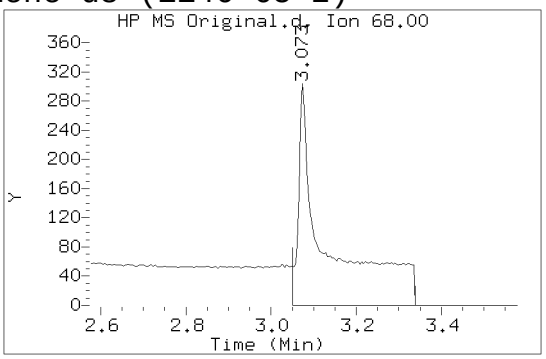


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

## Naphthalene-d8 (1146-65-2)

### BEFORE

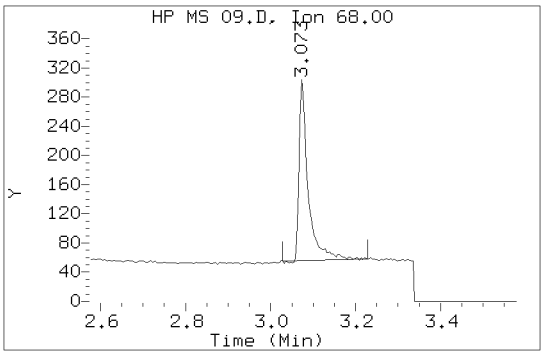
MASS
68
AREA
1344
HEIGHT
304
18-Apr-2024
14:31
ALSHS
Server




Reason Code:

### AFTER

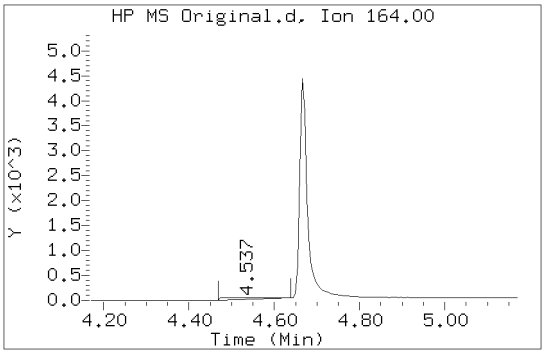
MASS
68
AREA
362
HEIGHT
248
23-May-2024
08:54




## Acenaphthene-d10 (15067-26-2)

### BEFORE

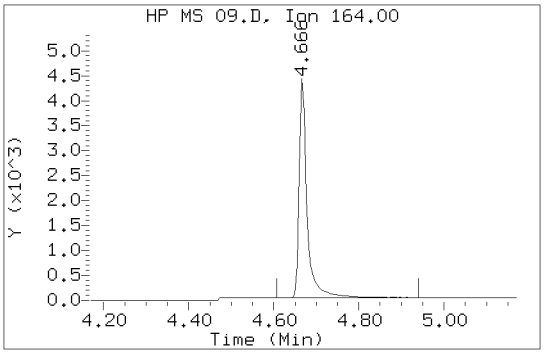
MASS
164
AREA
238
HEIGHT
29
18-Apr-2024
14:31
ALSHS
Server




Reason Code:

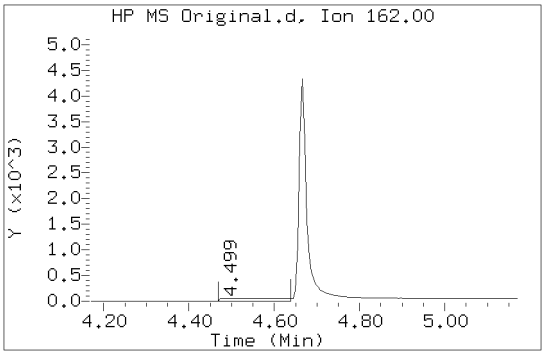
### AFTER

MASS
164
AREA
5593
HEIGHT
4390
23-May-2024
08:54



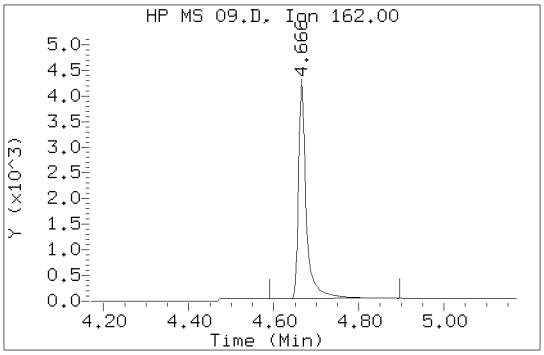

### BEFORE

MASS
162
AREA
503
HEIGHT
51
18-Apr-2024
14:31
ALSHS
Server



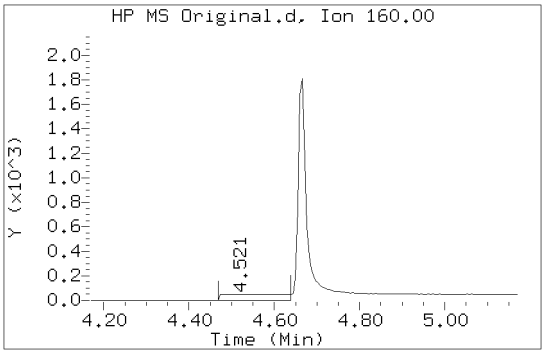

### AFTER

MASS
162
AREA
5314
HEIGHT
4281
23-May-2024
08:54



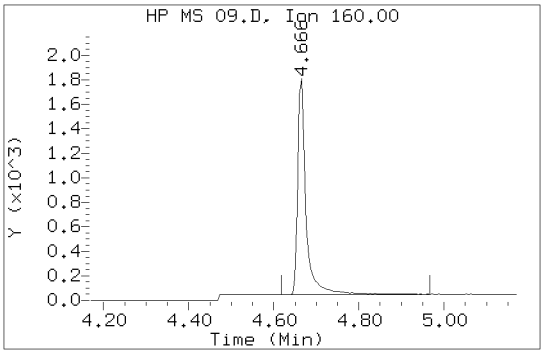

### BEFORE

MASS
160
AREA
485
HEIGHT
49
18-Apr-2024
14:31
ALSHS
Server




### AFTER

MASS
160
AREA
2365
HEIGHT
1761
23-May-2024
08:54



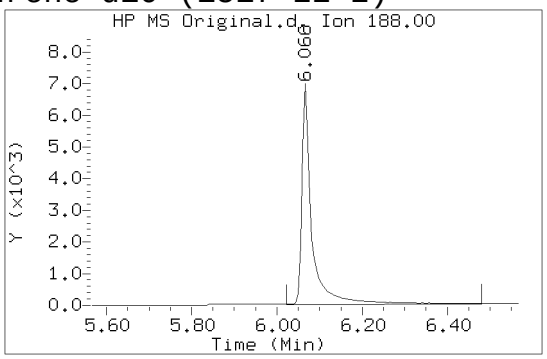
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

## Phenanthrene-d10 (1517-22-2)

Reason Code:

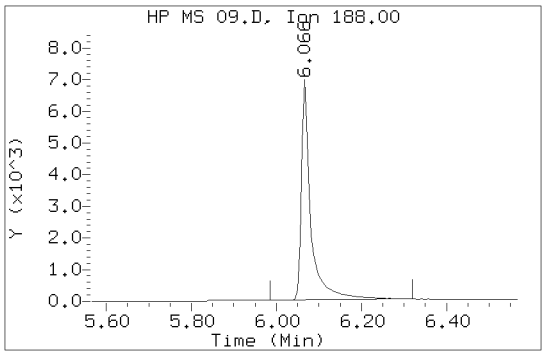
**BEFORE**

MASS
188
AREA
11617
HEIGHT
6980
18-Apr-2024
14:31
ALSHS
Server



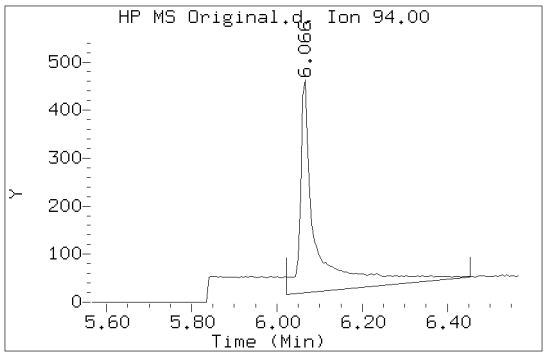

**AFTER**

MASS
188
AREA
10775
HEIGHT
6945
23-May-2024
08:54



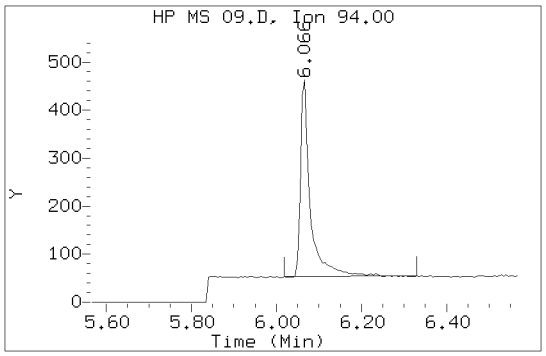

**BEFORE**

MASS
94
AREA
1175
HEIGHT
443
18-Apr-2024
14:31
ALSHS
Server



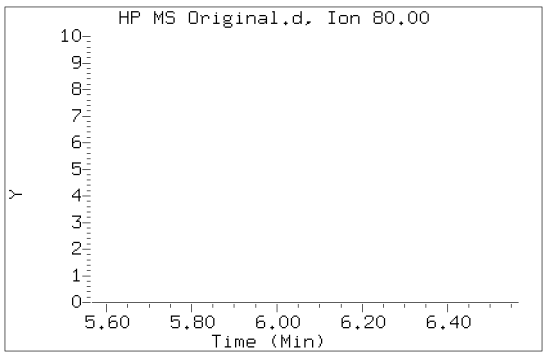

**AFTER**

MASS
94
AREA
655
HEIGHT
409
23-May-2024
08:54



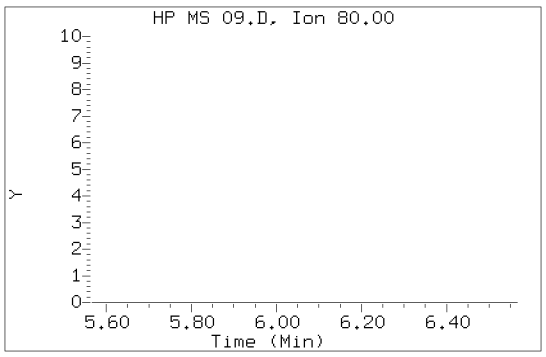

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
23-May-2024
08:54

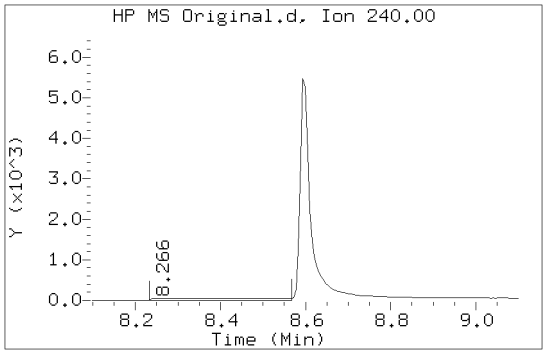



## Chrysene-d12 (1719-03-5)

Reason Code:

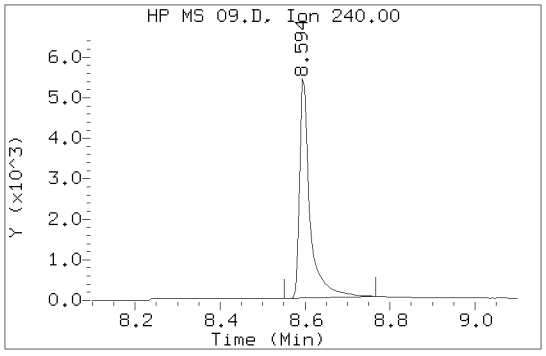
**BEFORE**

MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
240
AREA
9063
HEIGHT
5411
23-May-2024
08:54



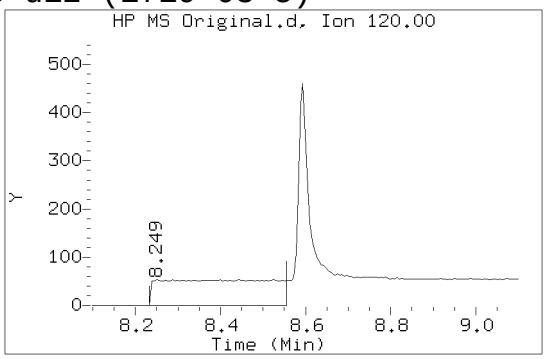
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

## Chrysene-d12 (1719-03-5)

Reason Code:

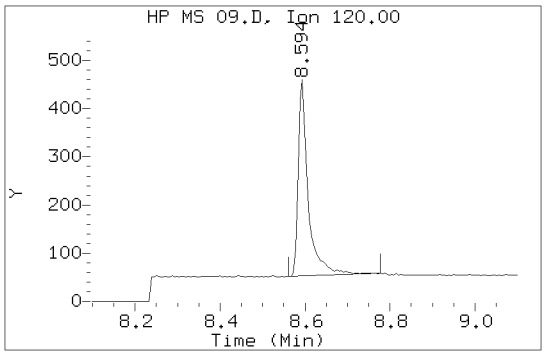
BEFORE

MASS
120
AREA
1000
HEIGHT
53
18-Apr-2024
14:31
ALSHS
Server



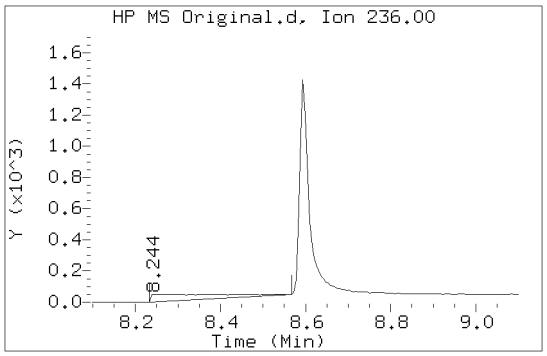

AFTER

MASS
120
AREA
651
HEIGHT
406
23-May-2024
08:54



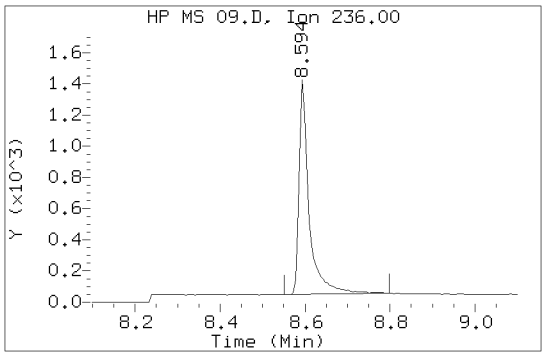

BEFORE

MASS
236
AREA
466
HEIGHT
47
18-Apr-2024
14:31
ALSHS
Server




AFTER

MASS
236
AREA
2242
HEIGHT
1376
23-May-2024
08:54

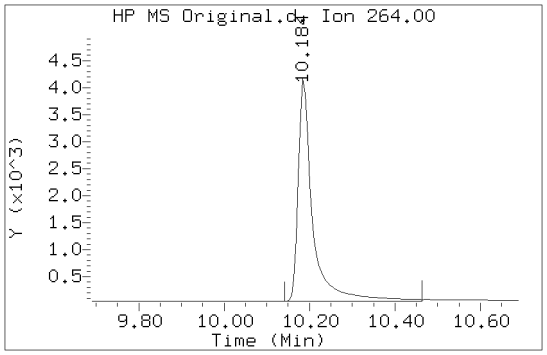



## Perylene-d12 (1520-96-3)

Reason Code:

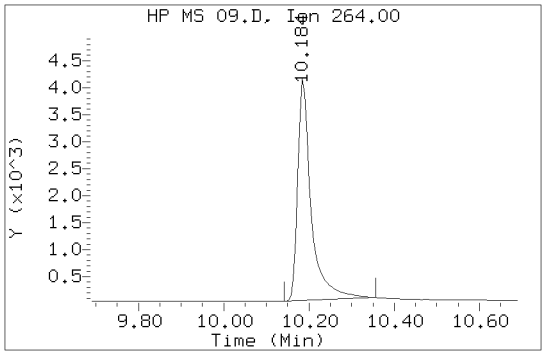
BEFORE

MASS
264
AREA
9658
HEIGHT
4112
18-Apr-2024
14:31
ALSHS
Server



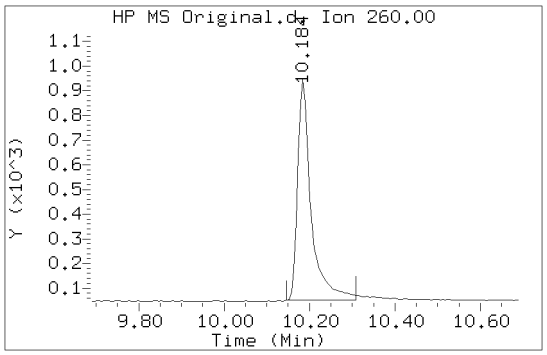

AFTER

MASS
264
AREA
8962
HEIGHT
4099
23-May-2024
08:54



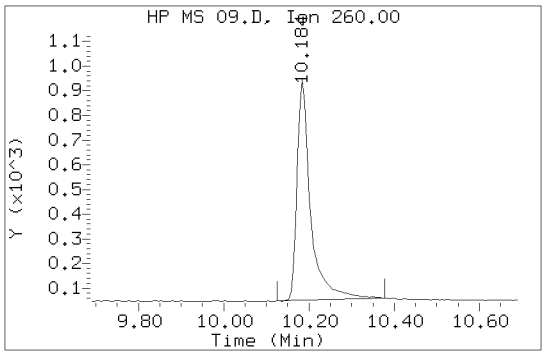

BEFORE

MASS
260
AREA
1972
HEIGHT
894
18-Apr-2024
14:31
ALSHS
Server




AFTER

MASS
260
AREA
1963
HEIGHT
893
23-May-2024
08:54



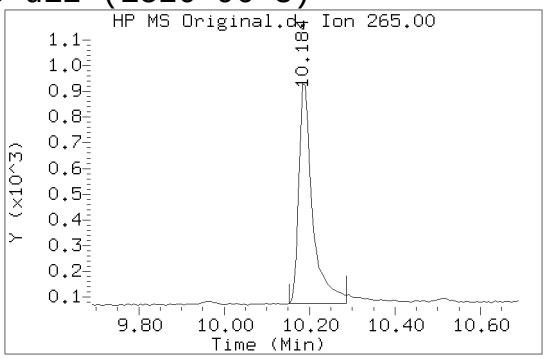
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

## Perylene-d12 (1520-96-3)

Reason Code:

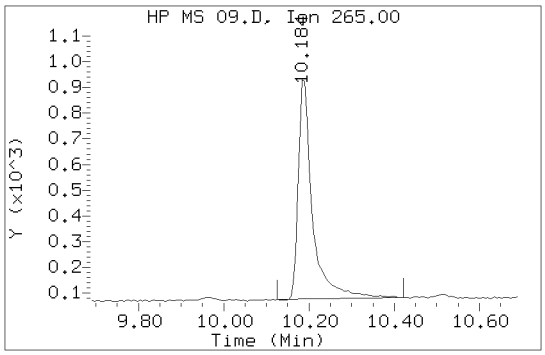
**BEFORE**

MASS
265
AREA
1909
HEIGHT
854
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
265
AREA
1984
HEIGHT
853
23-May-2024
08:54

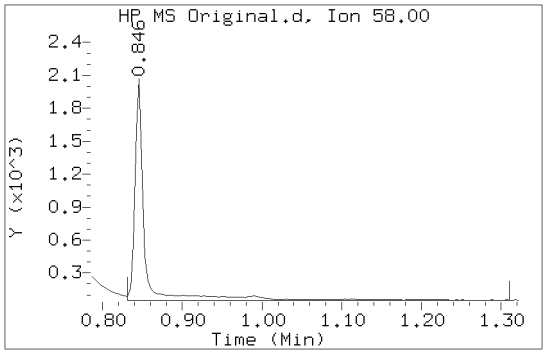



## 1,4-Dioxane ()

Reason Code:

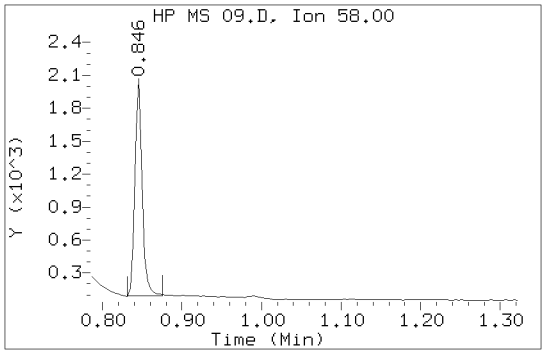
**BEFORE**

MASS
58
AREA
1746
HEIGHT
2018
18-Apr-2024
14:31
ALSHS
Server



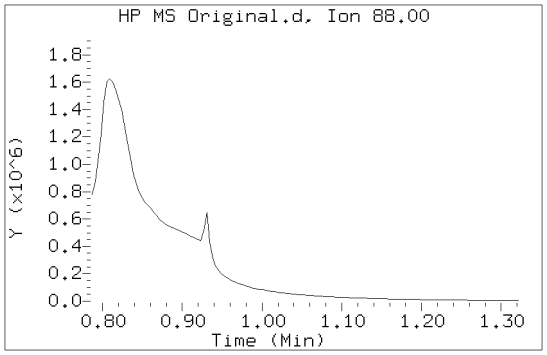

**AFTER**

MASS
58
AREA
1268
HEIGHT
1979
23-May-2024
08:54



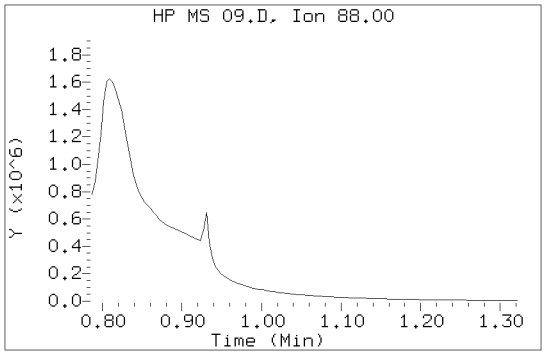

**BEFORE**

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
88
AREA
0
HEIGHT
0
23-May-2024
08:54

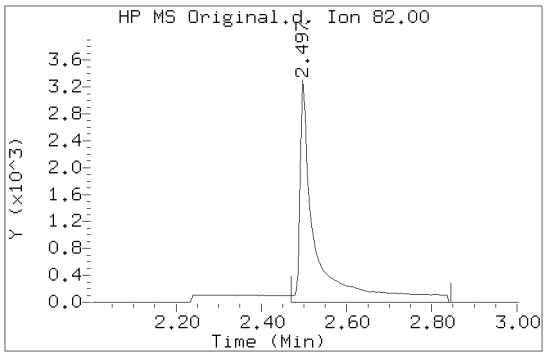



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

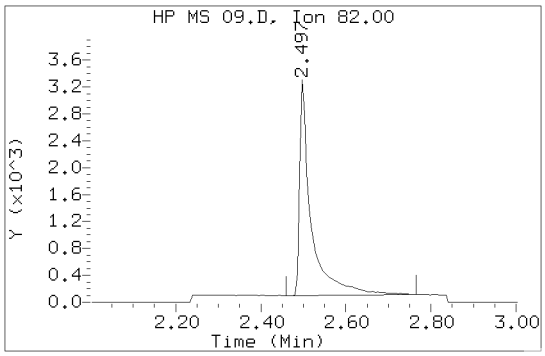
**BEFORE**

MASS
82
AREA
8325
HEIGHT
3305
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
82
AREA
5927
HEIGHT
3202
23-May-2024
08:54



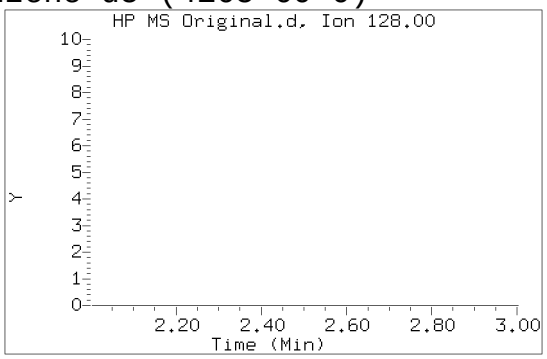
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

## Nitrobenzene-d5 (4165-60-0)

Reason Code:

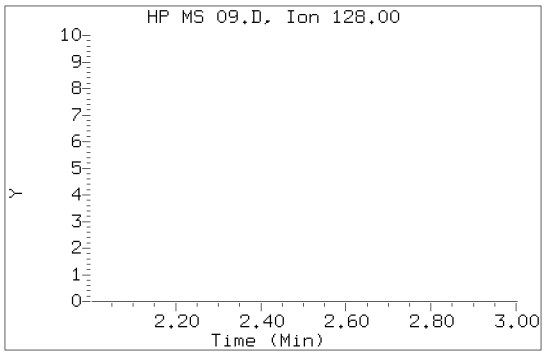
**BEFORE**

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



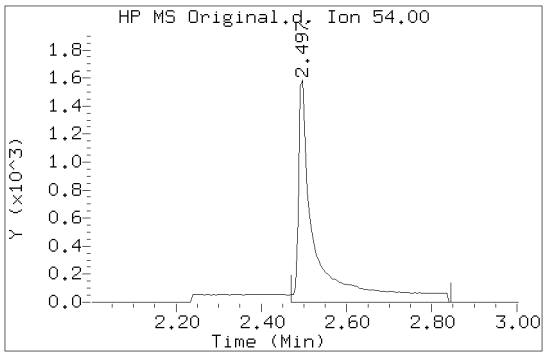

**AFTER**

MASS
128
AREA
0
HEIGHT
0
23-May-2024
08:54



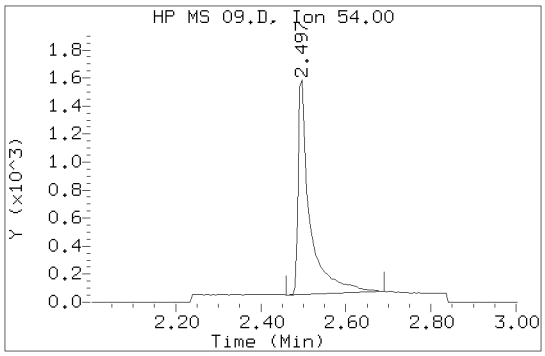

**BEFORE**

MASS
54
AREA
4354
HEIGHT
1586
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
54
AREA
2914
HEIGHT
1530
23-May-2024
08:54

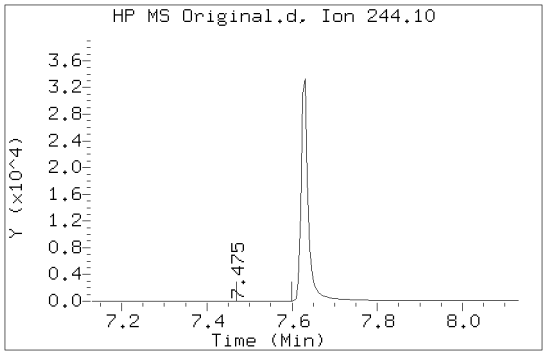



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

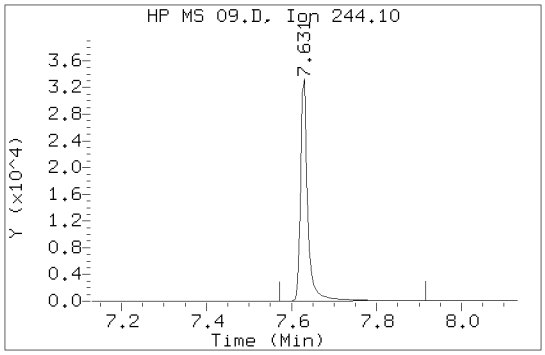
**BEFORE**

MASS
244.1
AREA
171
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server



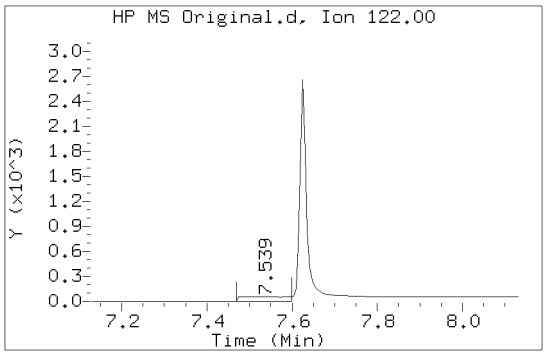

**AFTER**

MASS
244.1
AREA
39718
HEIGHT
33227
23-May-2024
08:54



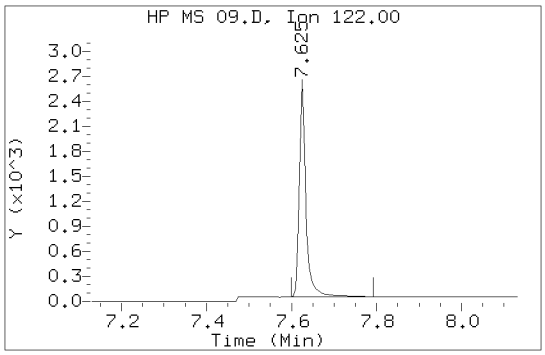

**BEFORE**

MASS
122
AREA
392
HEIGHT
52
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
122
AREA
2843
HEIGHT
2606
23-May-2024
08:54



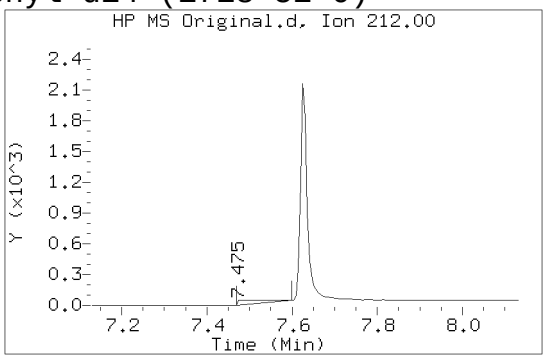
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

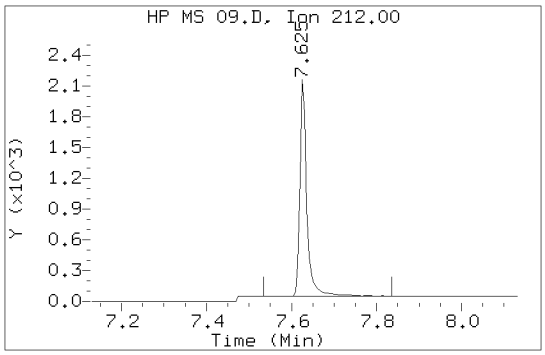
**BEFORE**

MASS
212
AREA
176
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
212
AREA
2426
HEIGHT
2111
23-May-2024
08:54

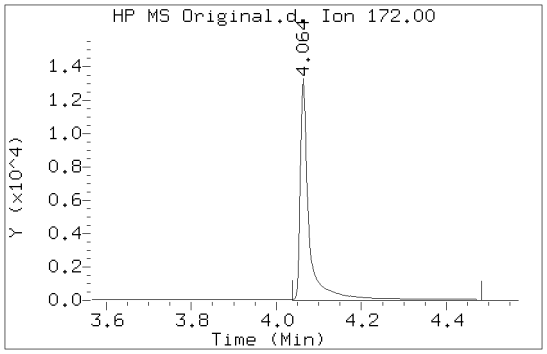



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

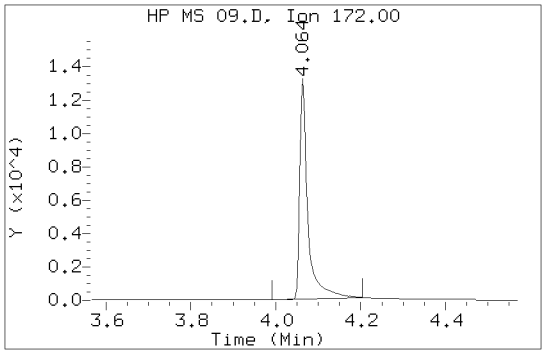
**BEFORE**

MASS
172
AREA
20172
HEIGHT
13283
18-Apr-2024
14:31
ALSHS
Server



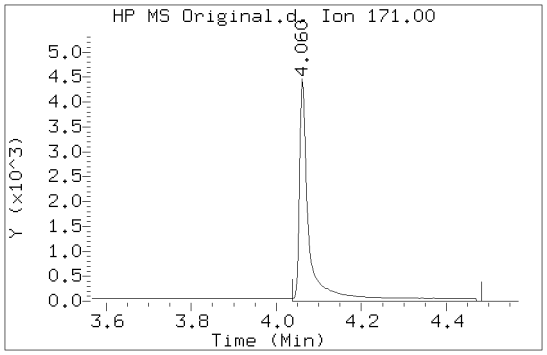

**AFTER**

MASS
172
AREA
17331
HEIGHT
13194
23-May-2024
08:54



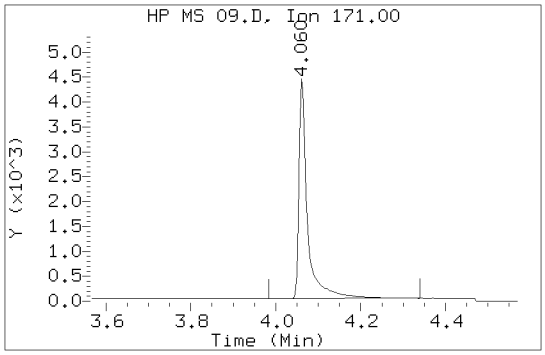

**BEFORE**

MASS
171
AREA
7647
HEIGHT
4464
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
171
AREA
6174
HEIGHT
4414
23-May-2024
08:54



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Lab Smp Id: 14DX-0.50
Inj Date : 18-APR-2024 14:35
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.50
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

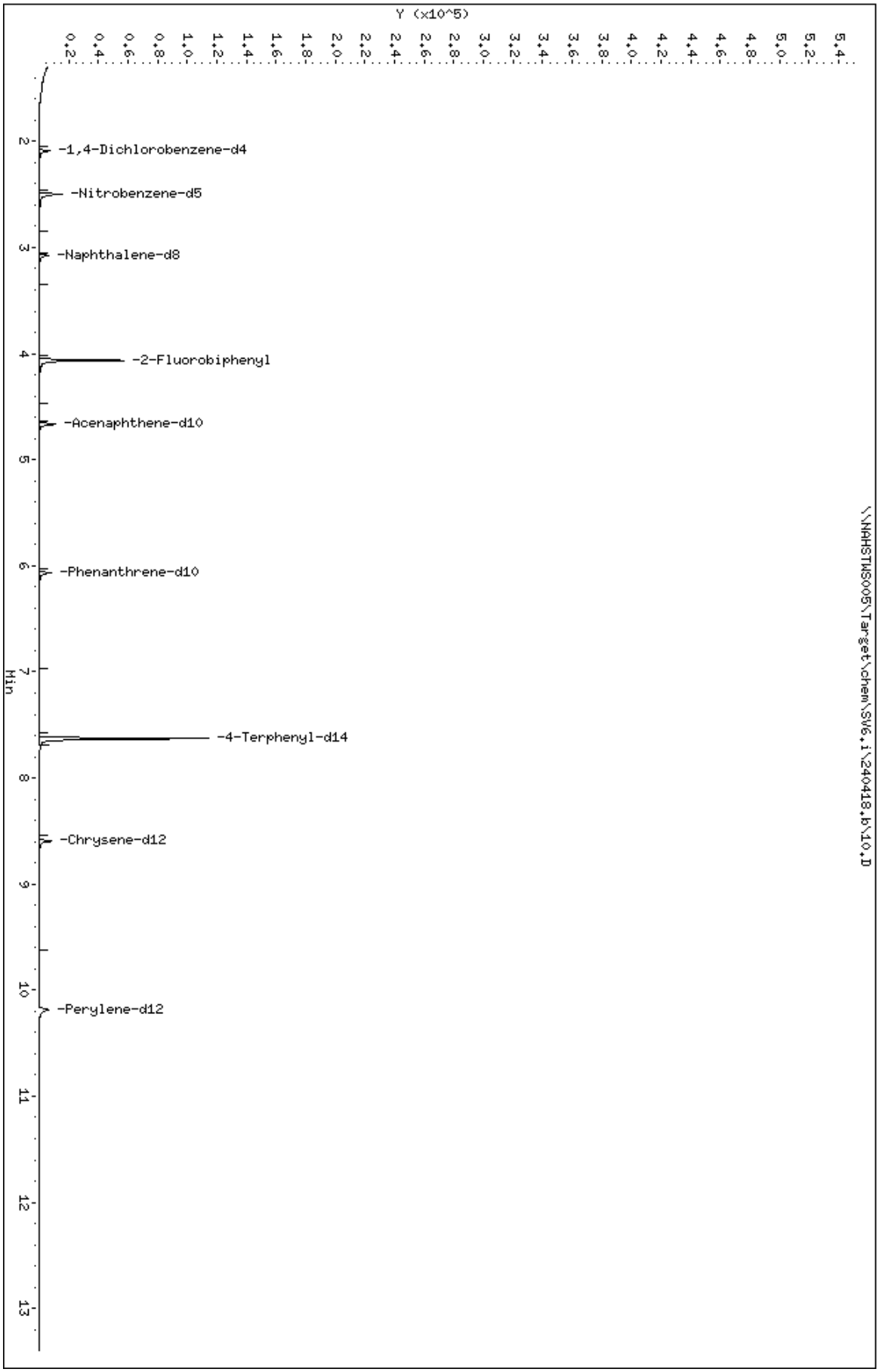
| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | ON-COL ( NG) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 2.089 | 2.089 | (1.000) | 2819 | 0.10000 | (aQM) |
| * 45 Naphthalene-d8 | 136 | 3.076 | 3.076 | (1.000) | 9772 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.497 | 2.502 | (0.812) | 15956 | 0.50000 | 0.5439(AM) |
| * 86 Acenaphthene-d10 | 164 | 4.665 | 4.671 | (1.000) | 5911 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 4.064 | 4.067 | (0.871) | 47534 | 0.50000 | 0.5260(AM) |
| * 126 Phenanthrene-d10 | 188 | 6.066 | 6.065 | (1.000) | 11325 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 8.593 | 8.599 | (1.000) | 9856 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.630 | 7.630 | (0.888) | 111493 | 0.50000 | 0.5553(AM) |
| * 198 Perylene-d12 | 264 | 10.184 | 10.189 | (1.000) | 10138 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 0.831 | 0.820 | (0.398) | 2813 | 0.50000 | 0.4659(M) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6,i\240418,b\10,D
Date : 18-APR-2024 14:35
Client ID:
Sample Info: 14DX-0,50
Purge Volume: 1000,0
Column phase: RTX-5SIL MS

Instrument: SV6,i
Operator: LG
Column diameter: 0,28



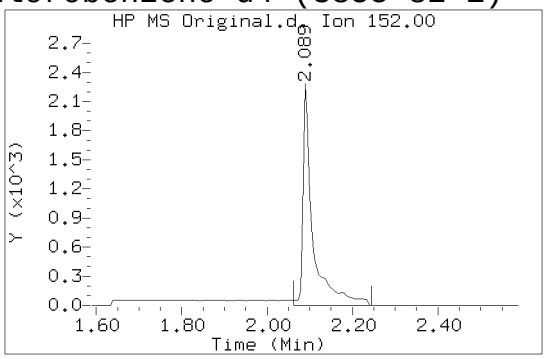
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

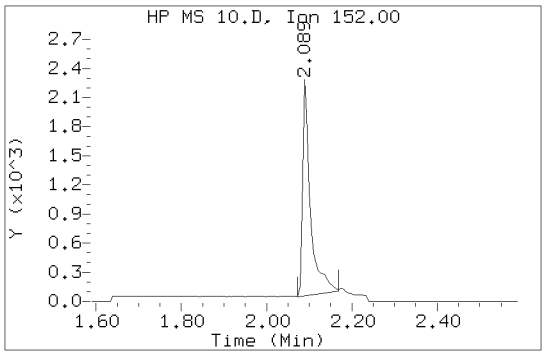
BEFORE

MASS
152
AREA
3637
HEIGHT
2284
18-Apr-2024
14:51
ALSHS
Server



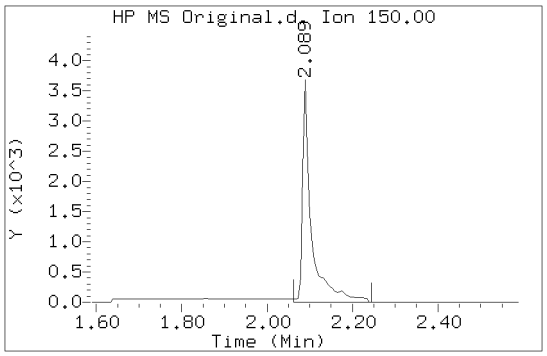

AFTER

MASS
152
AREA
2819
HEIGHT
2227
28-May-2024
13:05



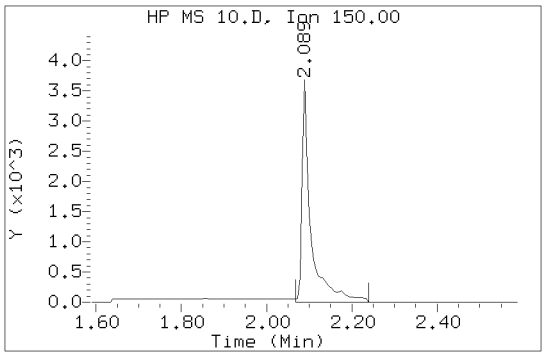

BEFORE

MASS
150
AREA
5370
HEIGHT
3682
18-Apr-2024
14:51
ALSHS
Server



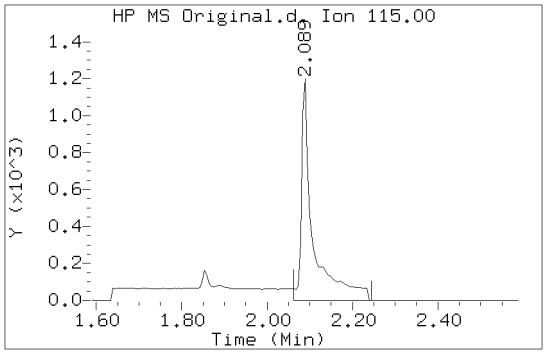

AFTER

MASS
150
AREA
5355
HEIGHT
3682
28-May-2024
13:05



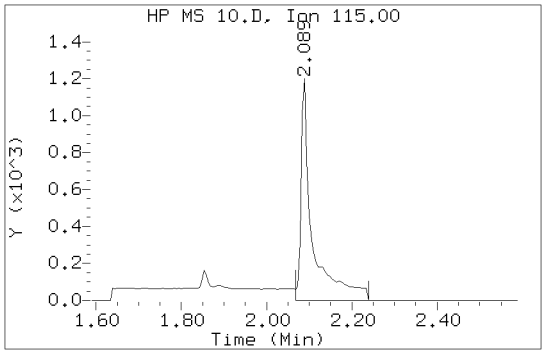

BEFORE

MASS
115
AREA
2255
HEIGHT
1200
18-Apr-2024
14:51
ALSHS
Server




AFTER

MASS
115
AREA
2236
HEIGHT
1200
28-May-2024
13:05

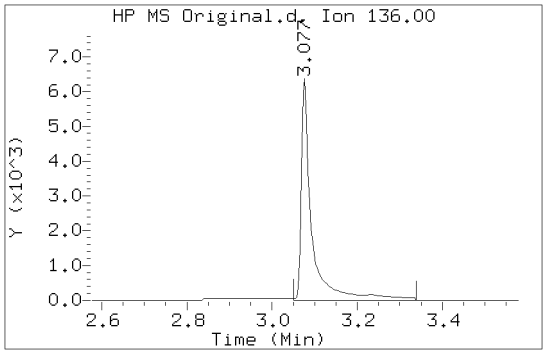



## Naphthalene-d8 (1146-65-2)

Reason Code:

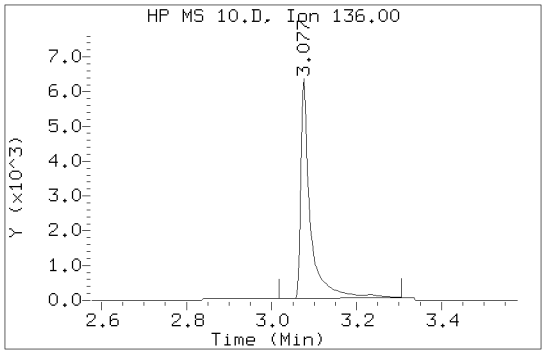
BEFORE

MASS
136
AREA
10944
HEIGHT
6372
18-Apr-2024
14:51
ALSHS
Server




AFTER

MASS
136
AREA
9772
HEIGHT
6315
28-May-2024
13:05



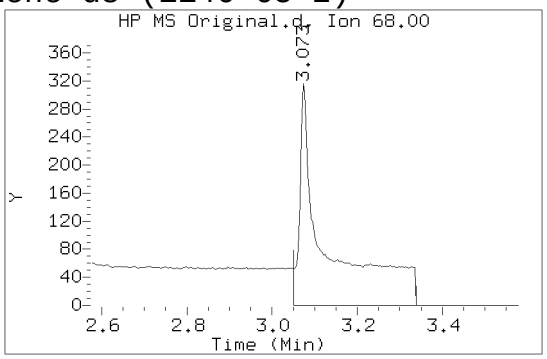
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

## Naphthalene-d8 (1146-65-2)

Reason Code:

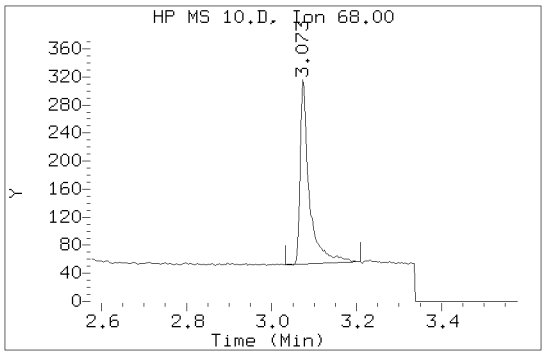
BEFORE

MASS
68
AREA
1337
HEIGHT
316
18-Apr-2024
14:51
ALSHS
Server




AFTER

MASS
68
AREA
385
HEIGHT
262
28-May-2024
13:05

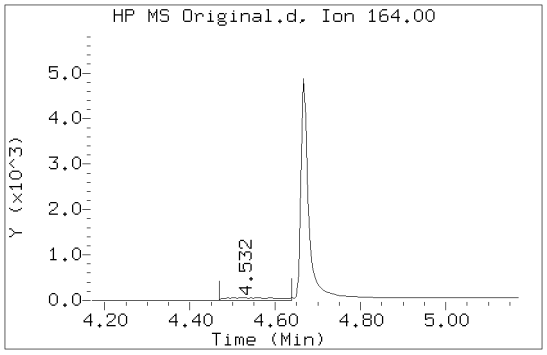



## Acenaphthene-d10 (15067-26-2)

Reason Code:

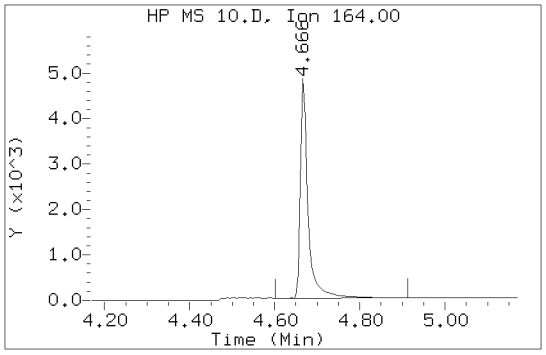
BEFORE

MASS
164
AREA
504
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



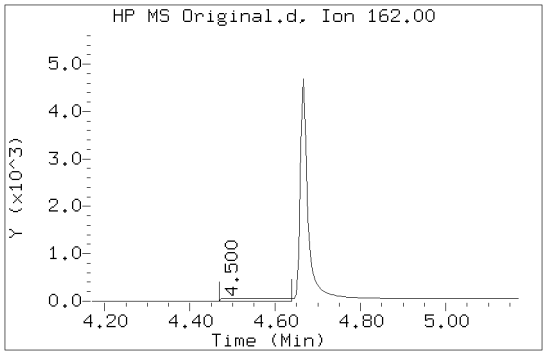

AFTER

MASS
164
AREA
5911
HEIGHT
4828
28-May-2024
13:05



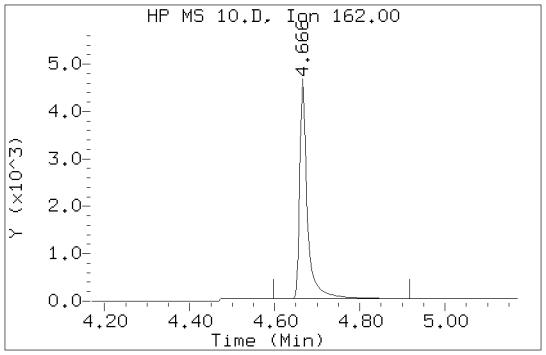

BEFORE

MASS
162
AREA
499
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



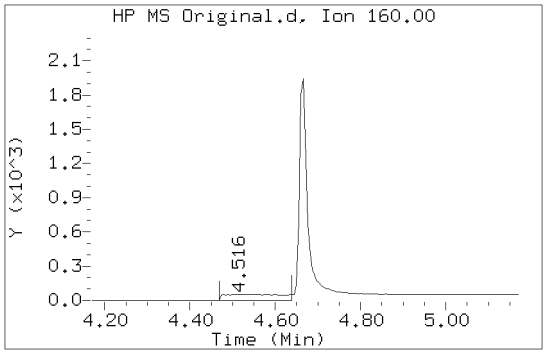

AFTER

MASS
162
AREA
5684
HEIGHT
4637
28-May-2024
13:05



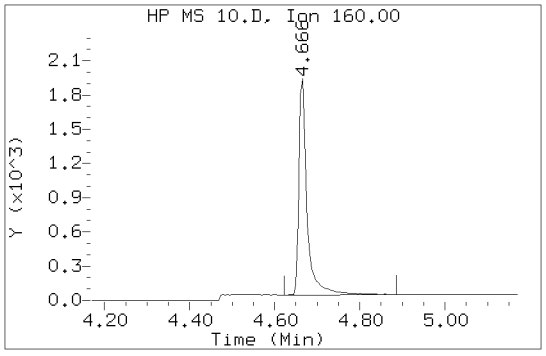

BEFORE

MASS
160
AREA
487
HEIGHT
49
18-Apr-2024
14:51
ALSHS
Server




AFTER

MASS
160
AREA
2489
HEIGHT
1895
28-May-2024
13:05



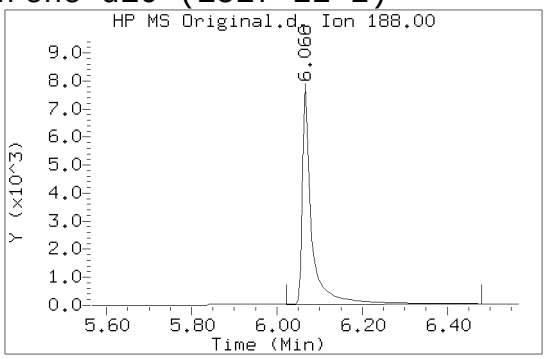
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

## Phenanthrene-d10 (1517-22-2)

Reason Code:

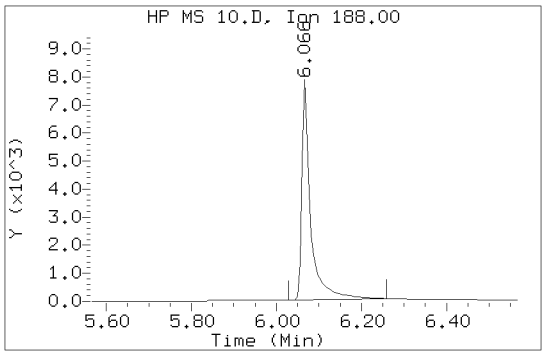
**BEFORE**

MASS
188
AREA
12429
HEIGHT
7885
18-Apr-2024
14:51
ALSHS
Server



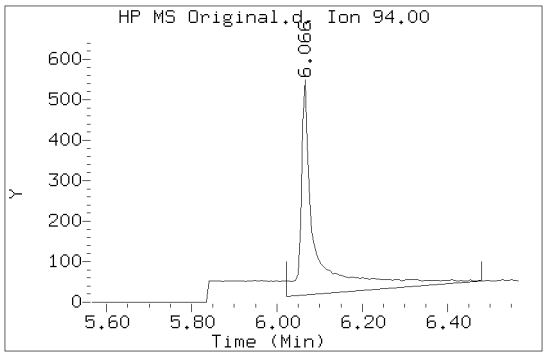

**AFTER**

MASS
188
AREA
11325
HEIGHT
7848
28-May-2024
13:05



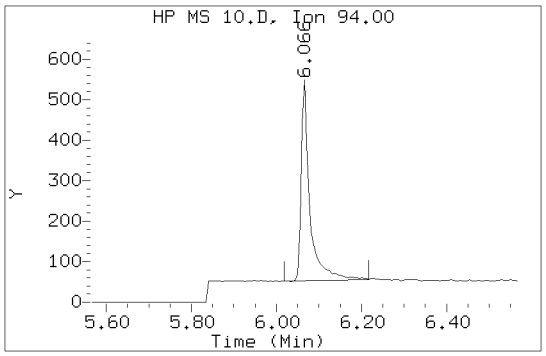

**BEFORE**

MASS
94
AREA
1281
HEIGHT
530
18-Apr-2024
14:51
ALSHS
Server



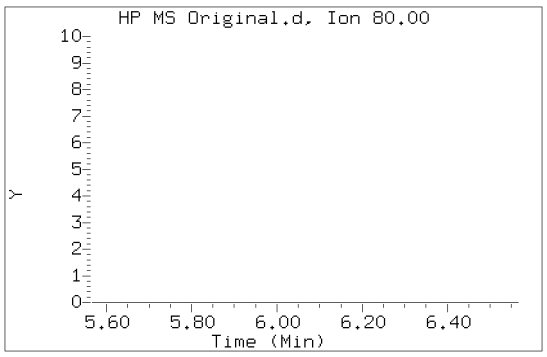

**AFTER**

MASS
94
AREA
704
HEIGHT
496
28-May-2024
13:05



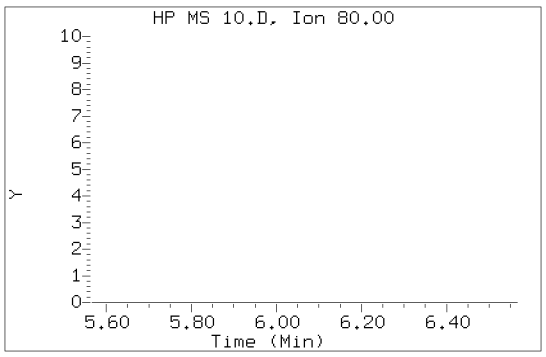

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

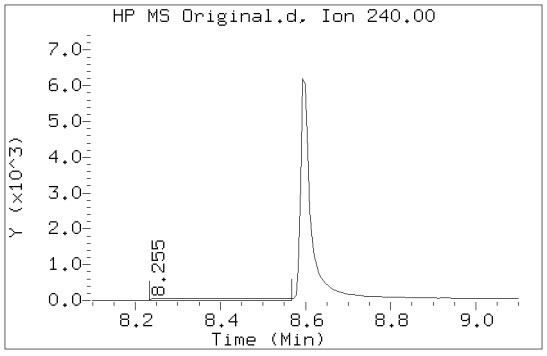



## Chrysene-d12 (1719-03-5)

Reason Code:

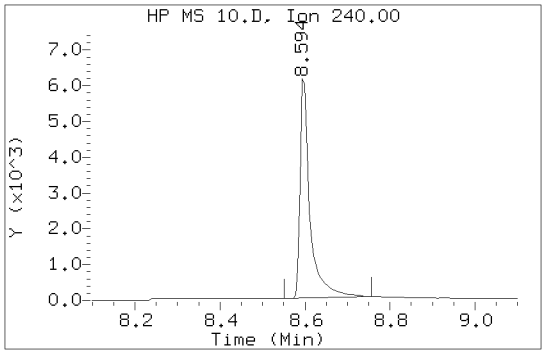
**BEFORE**

MASS
240
AREA
983
HEIGHT
51
18-Apr-2024
14:51
ALSHS
Server




**AFTER**

MASS
240
AREA
9856
HEIGHT
6137
28-May-2024
13:05



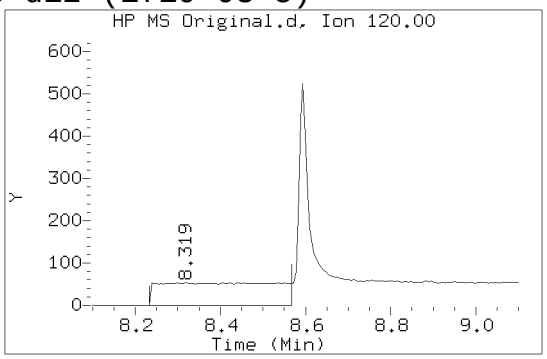
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

## Chrysene-d12 (1719-03-5)

Reason Code:

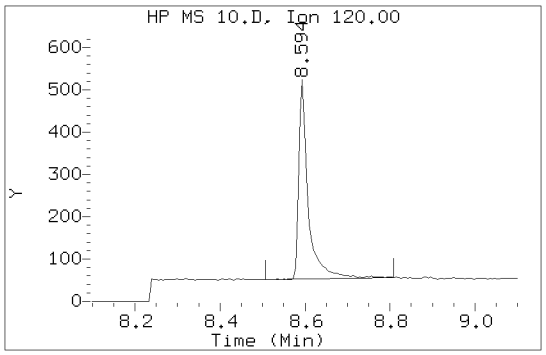
**BEFORE**

MASS
120
AREA
1034
HEIGHT
54
18-Apr-2024
14:51
ALSHS
Server



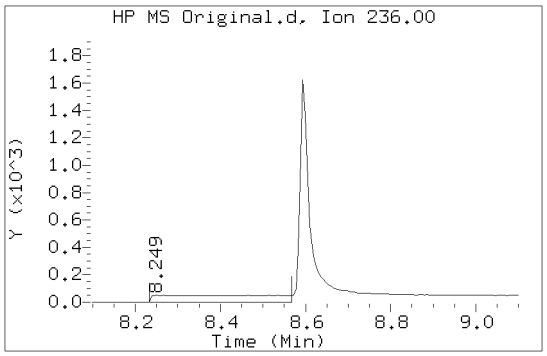

**AFTER**

MASS
120
AREA
718
HEIGHT
470
28-May-2024
13:05



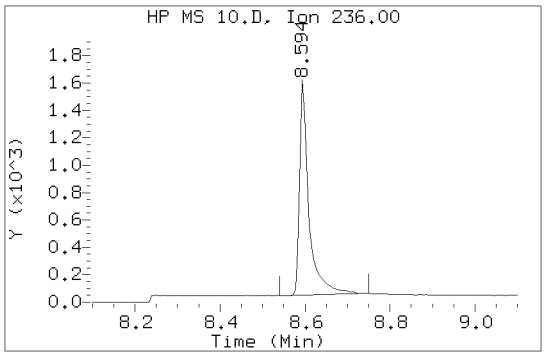

**BEFORE**

MASS
236
AREA
972
HEIGHT
50
18-Apr-2024
14:51
ALSHS
Server




**AFTER**

MASS
236
AREA
2369
HEIGHT
1570
28-May-2024
13:05

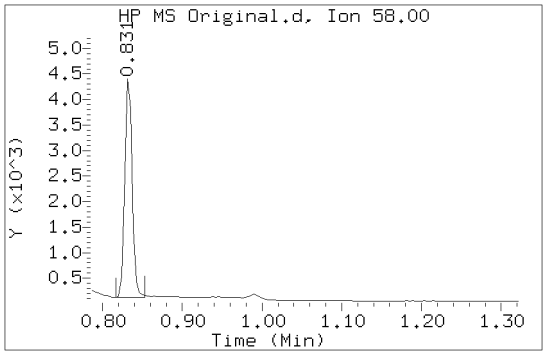



## 1,4-Dioxane ()

Reason Code:

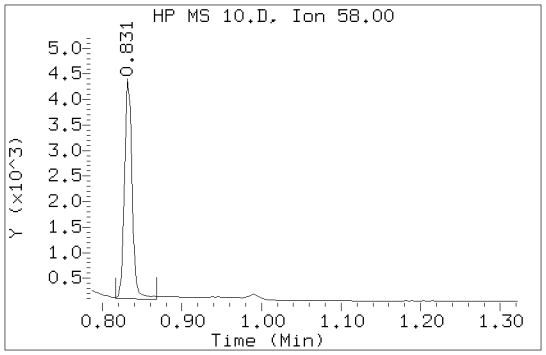
**BEFORE**

MASS
58
AREA
2715
HEIGHT
4282
18-Apr-2024
14:51
ALSHS
Server



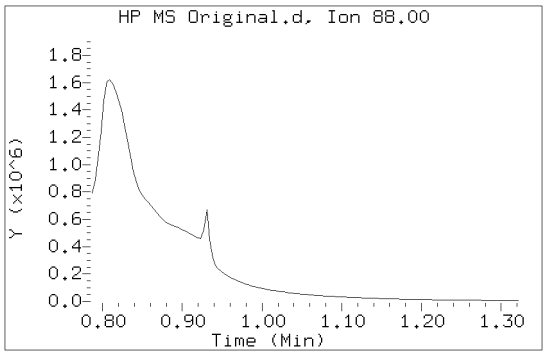

**AFTER**

MASS
58
AREA
2813
HEIGHT
4303
28-May-2024
13:05



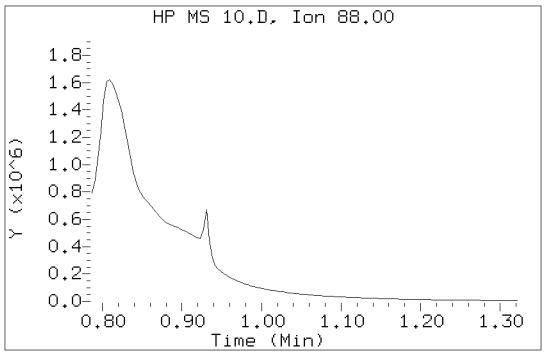

**BEFORE**

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server




**AFTER**

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05



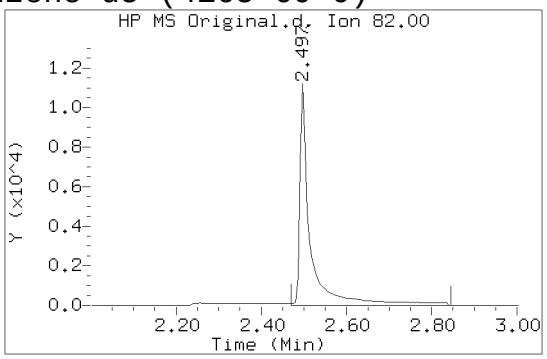
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Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

## Nitrobenzene-d5 (4165-60-0)

Reason Code:

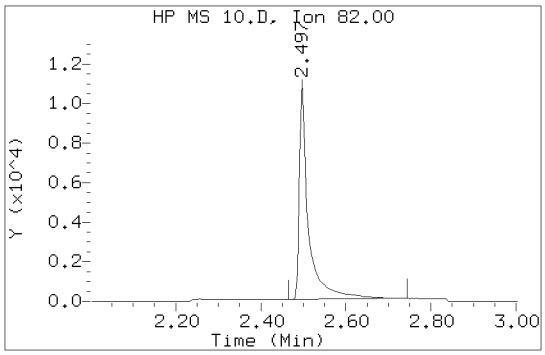
BEFORE

MASS
82
AREA
18735
HEIGHT
11209
18-Apr-2024
14:51
ALSHS
Server



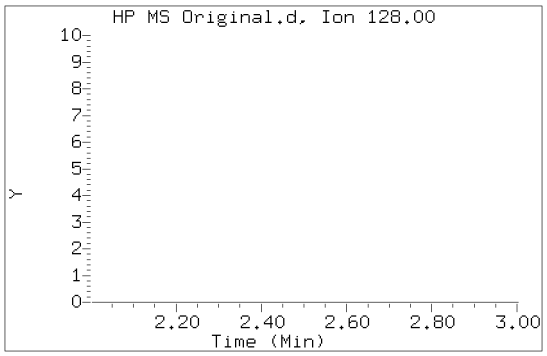

AFTER

MASS
82
AREA
15956
HEIGHT
11102
28-May-2024
13:05



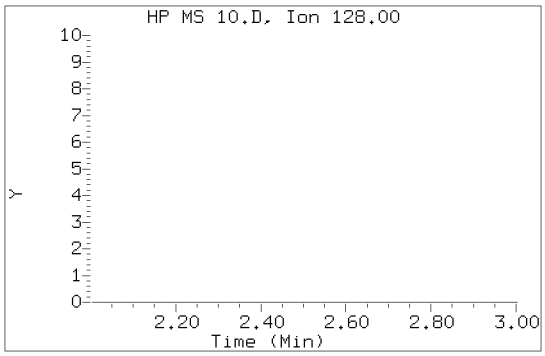

BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



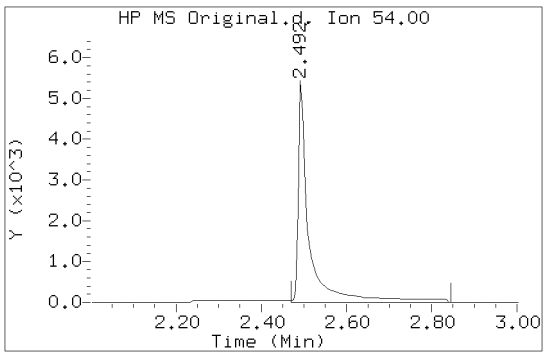

AFTER

MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



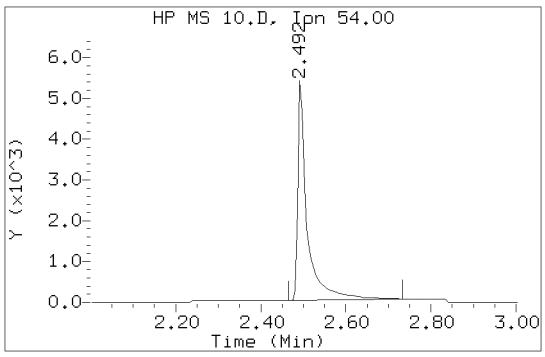

BEFORE

MASS
54
AREA
9543
HEIGHT
5435
18-Apr-2024
14:51
ALSHS
Server




AFTER

MASS
54
AREA
8025
HEIGHT
5379
28-May-2024
13:05

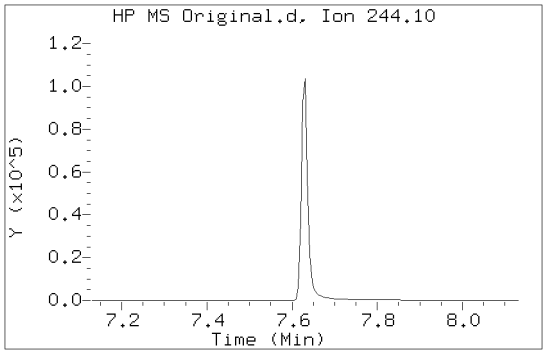



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

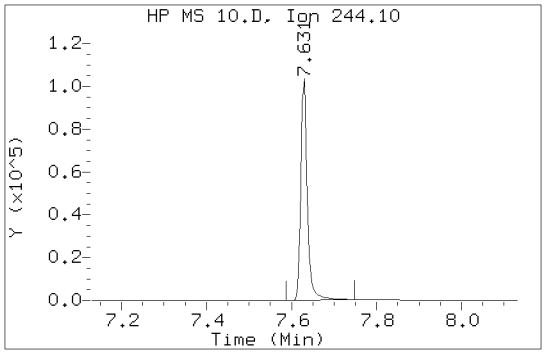
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server




AFTER

MASS
244.1
AREA
111493
HEIGHT
103434
28-May-2024
13:05



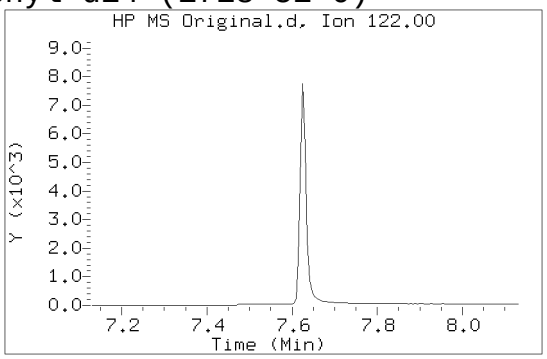
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

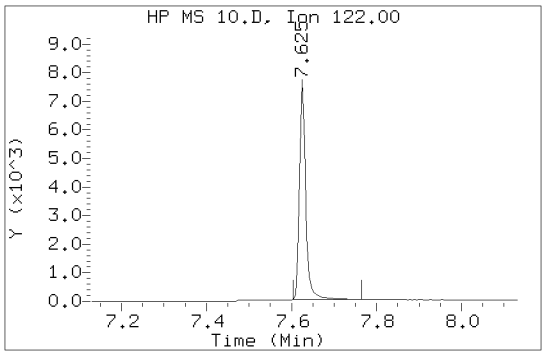
**BEFORE**

MASS
122
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



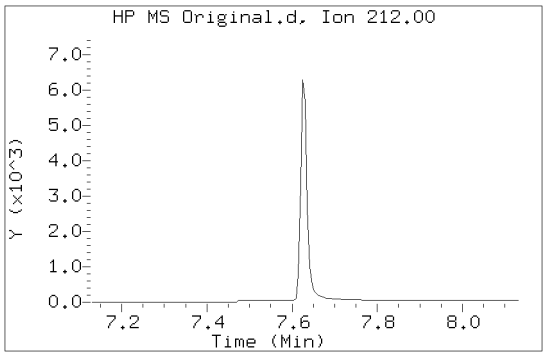

**AFTER**

MASS
122
AREA
7961
HEIGHT
7695
28-May-2024
13:05



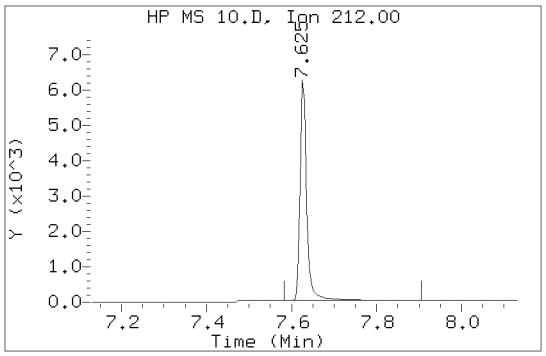

**BEFORE**

MASS
212
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server




**AFTER**

MASS
212
AREA
6900
HEIGHT
6243
28-May-2024
13:05

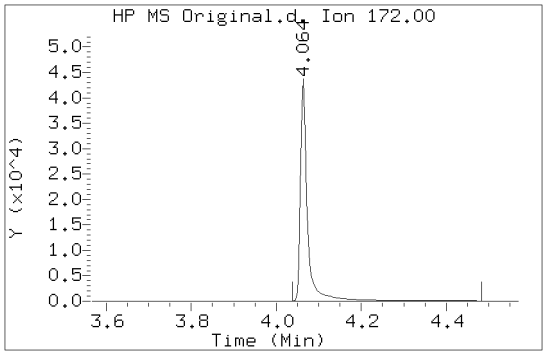



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

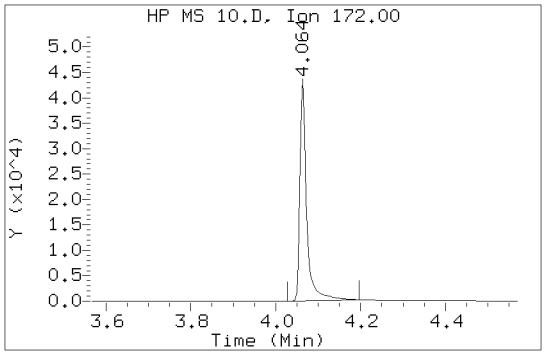
**BEFORE**

MASS
172
AREA
51564
HEIGHT
43720
18-Apr-2024
14:51
ALSHS
Server



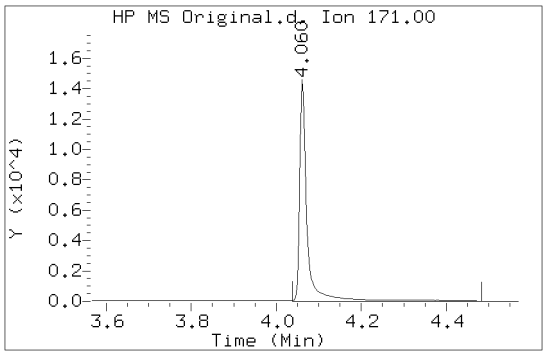

**AFTER**

MASS
172
AREA
47534
HEIGHT
43625
28-May-2024
13:05



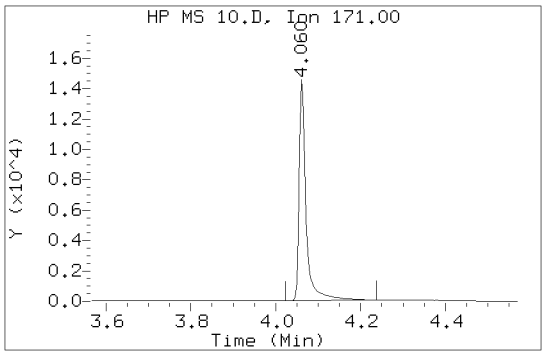

**BEFORE**

MASS
171
AREA
18313
HEIGHT
14592
18-Apr-2024
14:51
ALSHS
Server




**AFTER**

MASS
171
AREA
16377
HEIGHT
14537
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D Page 1
Report Date: 25-Jul-2024 11:39

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Lab Smp Id: 14DX ICV-0.08 Client Smp ID: 14DX ICV-0.08
Inj Date : 18-APR-2024 14:53
Operator : LG Inst ID: SV6.i
Smp Info : 14DX ICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 25-Jul-2024 11:38 donna.brou Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 11 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7019

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 2.094 | 2.089 | (1.000) | 2645 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 3.076 | 3.076 | (1.000) | 7708 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.496 | 2.502 | (0.812) | 1691 | 0.07308 | 0.07308(M) |
| * 86 Acenaphthene-d10 | 164 | 4.665 | 4.671 | (1.000) | 5072 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 4.063 | 4.067 | (0.871) | 5460 | 0.07042 | 0.07042(M) |
| * 126 Phenanthrene-d10 | 188 | 6.065 | 6.065 | (1.000) | 10292 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 8.593 | 8.599 | (1.000) | 7884 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.630 | 7.630 | (0.888) | 11331 | 0.07055 | 0.07055(M) |
| * 198 Perylene-d12 | 264 | 10.184 | 10.189 | (1.000) | 8007 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 0.838 | 0.820 | (0.400) | 429 | 0.07572 | 0.07572 |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D



Date : 18-APR-2024 14:53

Client ID: 14DX ICV-0.08

Instrument: SV6.i

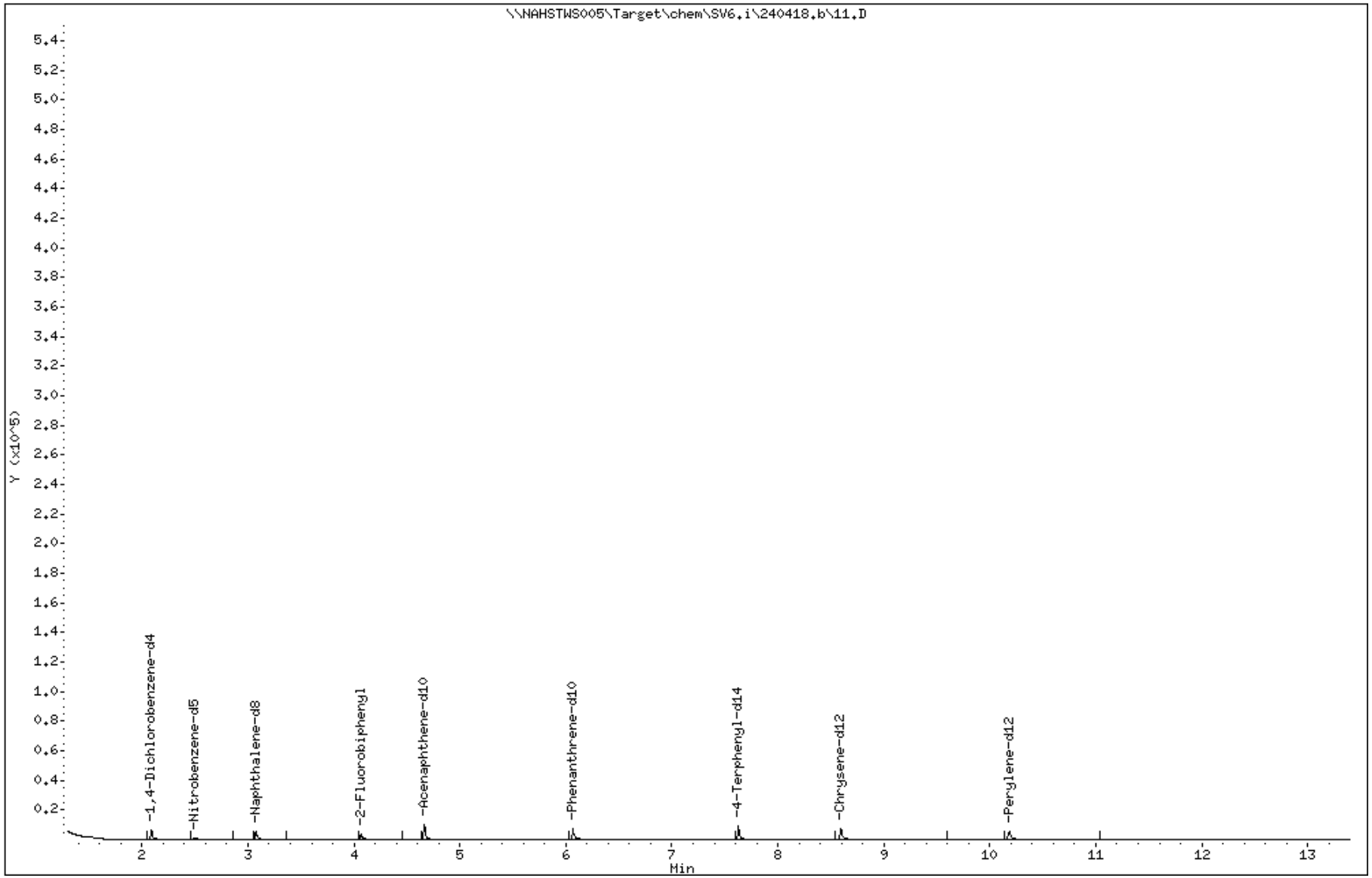
Sample Info: 14DX ICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



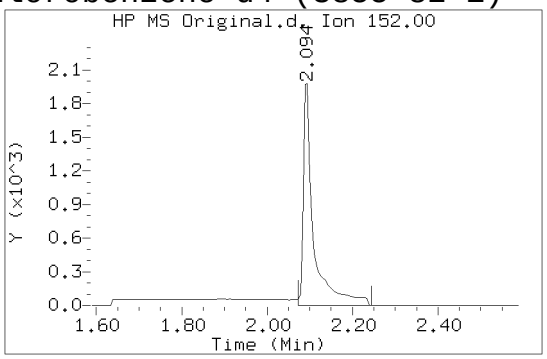
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

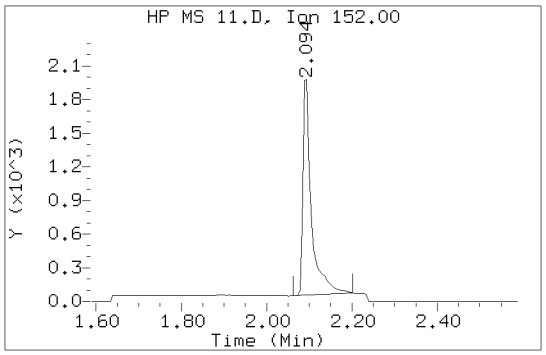
BEFORE

MASS
152
AREA
3284
HEIGHT
1978
18-Apr-2024
15:08
ALSHS
Server



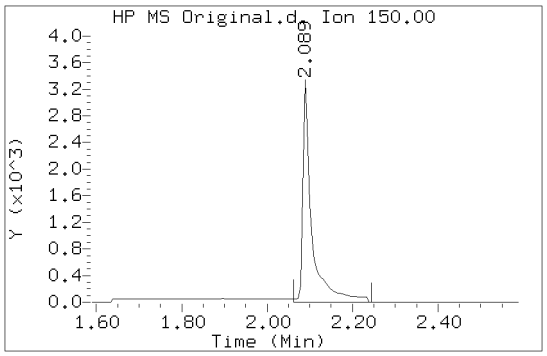

AFTER

MASS
152
AREA
2645
HEIGHT
1921
25-Jul-2024
11:39



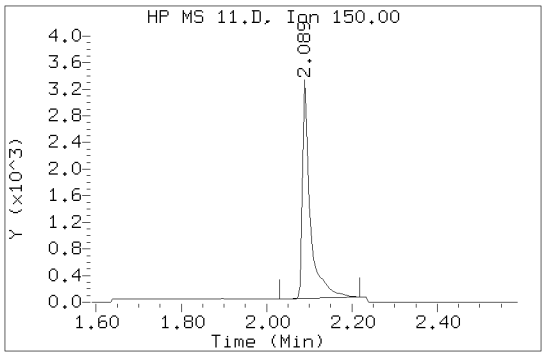

BEFORE

MASS
150
AREA
4880
HEIGHT
3340
18-Apr-2024
15:08
ALSHS
Server



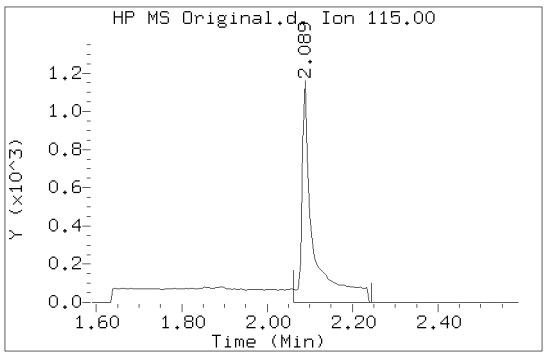

AFTER

MASS
150
AREA
4160
HEIGHT
3281
25-Jul-2024
11:39



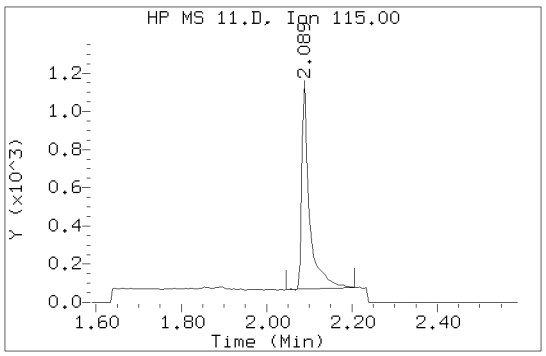

BEFORE

MASS
115
AREA
2134
HEIGHT
1161
18-Apr-2024
15:08
ALSHS
Server




AFTER

MASS
115
AREA
1363
HEIGHT
1092
25-Jul-2024
11:39

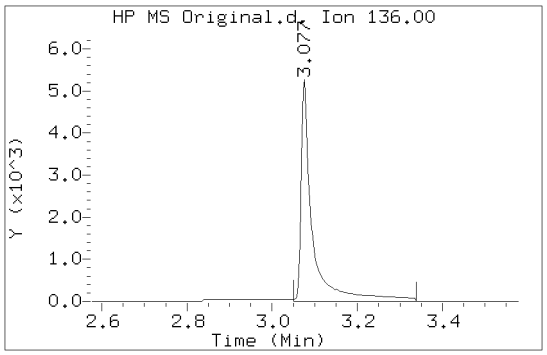



## Naphthalene-d8 (1146-65-2)

Reason Code:

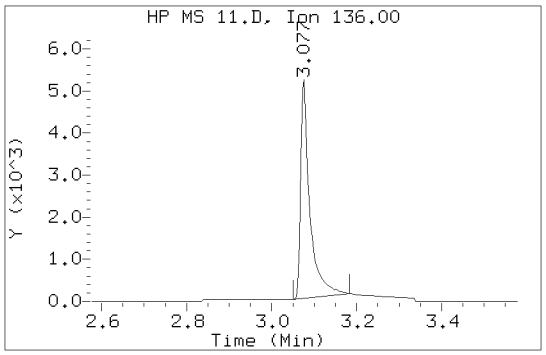
BEFORE

MASS
136
AREA
9692
HEIGHT
5268
18-Apr-2024
15:08
ALSHS
Server




AFTER

MASS
136
AREA
7708
HEIGHT
5193
25-Jul-2024
11:39



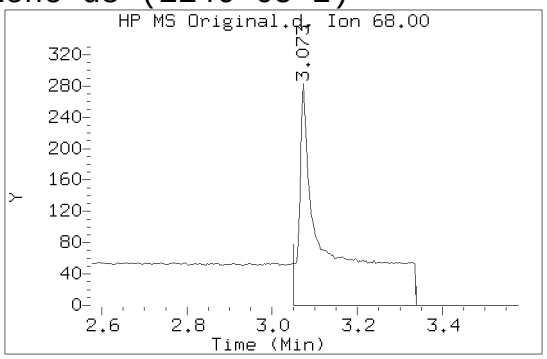
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

## Naphthalene-d8 (1146-65-2)

Reason Code:

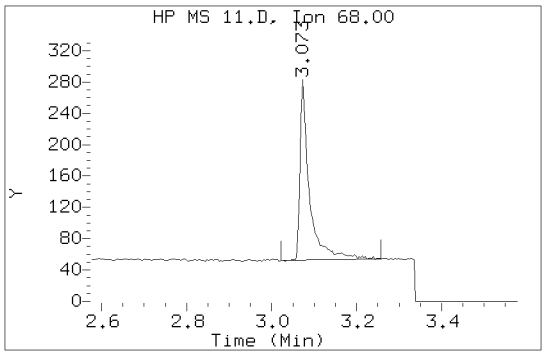
**BEFORE**

MASS
68
AREA
1275
HEIGHT
283
18-Apr-2024
15:08
ALSHS
Server




**AFTER**

MASS
68
AREA
353
HEIGHT
230
25-Jul-2024
11:39

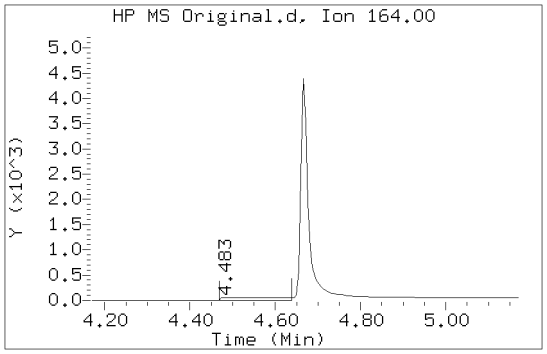



## Acenaphthene-d10 (15067-26-2)

Reason Code:

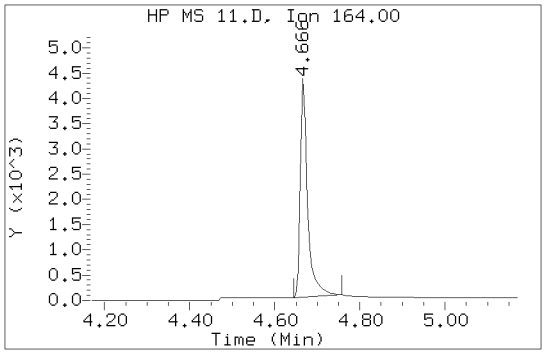
**BEFORE**

MASS
164
AREA
510
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



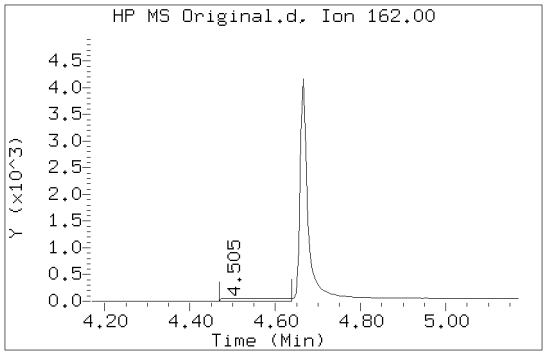

**AFTER**

MASS
164
AREA
5072
HEIGHT
4329
25-Jul-2024
11:39



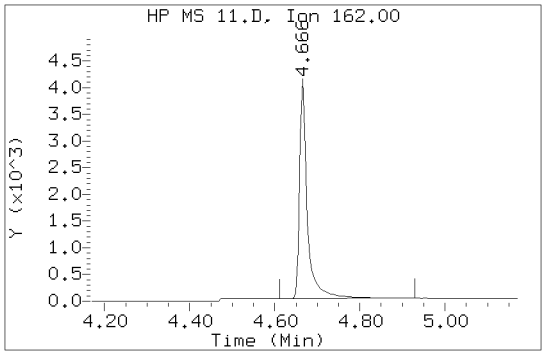

**BEFORE**

MASS
162
AREA
503
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



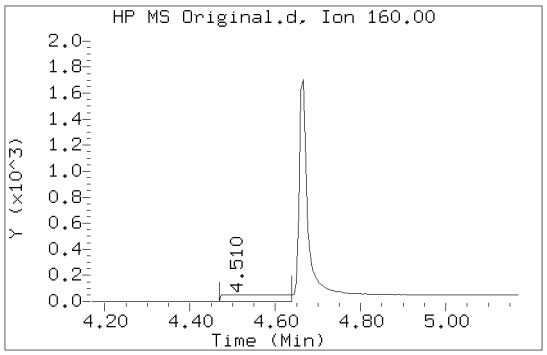

**AFTER**

MASS
162
AREA
5122
HEIGHT
4113
25-Jul-2024
11:39



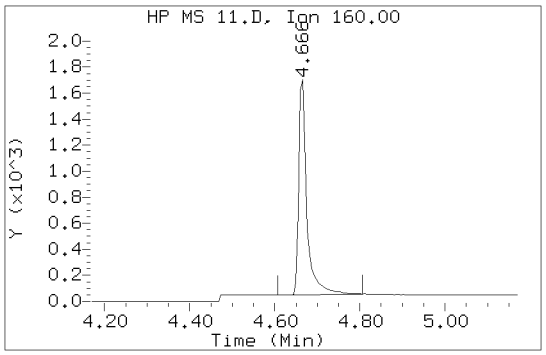

**BEFORE**

MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server




**AFTER**

MASS
160
AREA
2174
HEIGHT
1653
25-Jul-2024
11:39



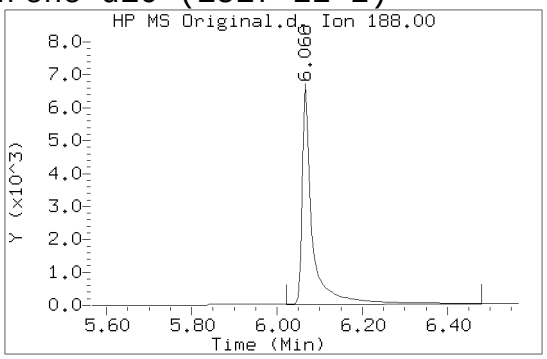
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

## Phenanthrene-d10 (1517-22-2)

Reason Code:

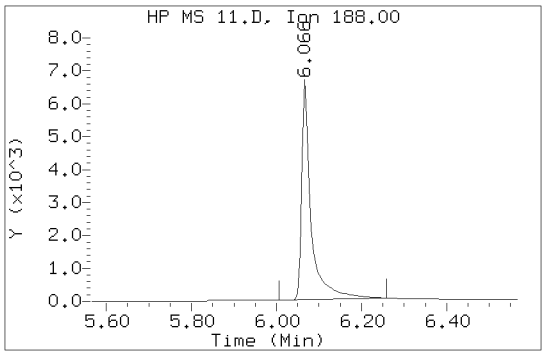
**BEFORE**

MASS
188
AREA
11412
HEIGHT
6713
18-Apr-2024
15:08
ALSHS
Server



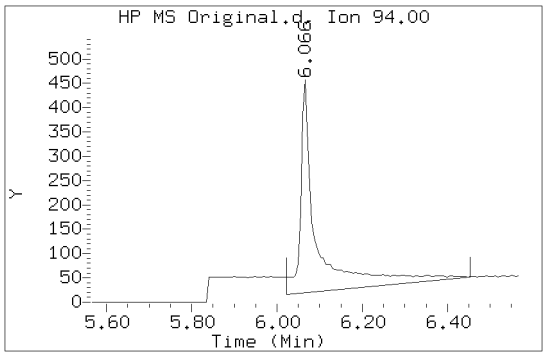

**AFTER**

MASS
188
AREA
10292
HEIGHT
6674
25-Jul-2024
11:39



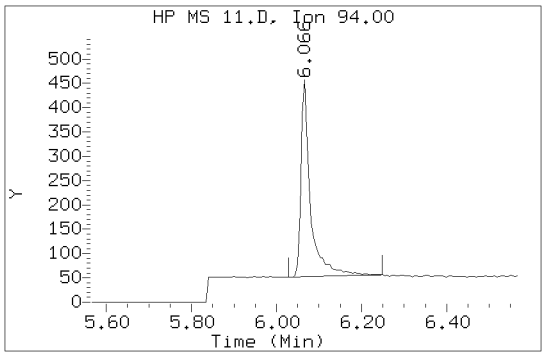

**BEFORE**

MASS
94
AREA
1149
HEIGHT
437
18-Apr-2024
15:08
ALSHS
Server



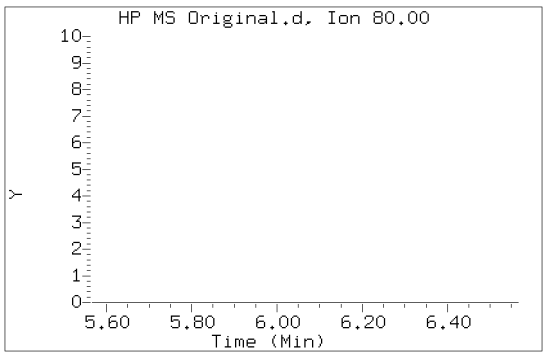

**AFTER**

MASS
94
AREA
624
HEIGHT
404
25-Jul-2024
11:39



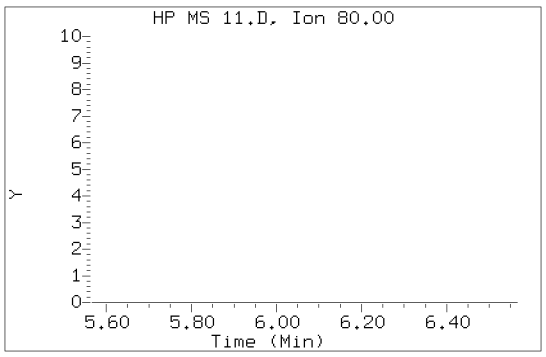

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
25-Jul-2024
11:39

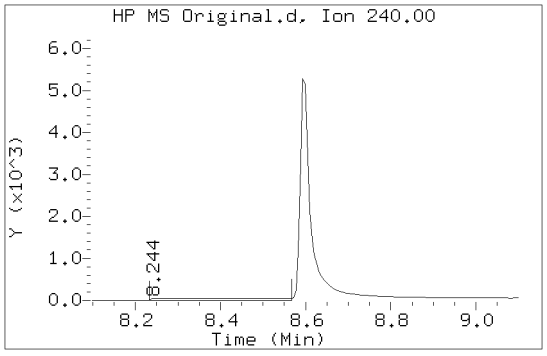



## Chrysene-d12 (1719-03-5)

Reason Code:

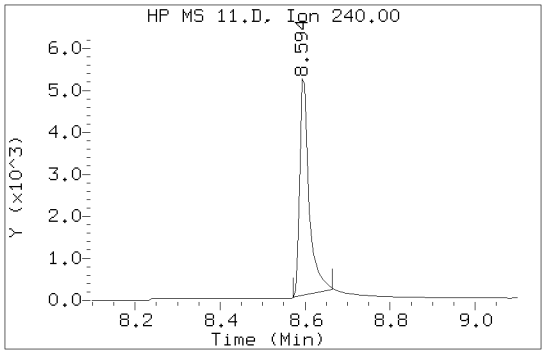
**BEFORE**

MASS
240
AREA
945
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server




**AFTER**

MASS
240
AREA
7884
HEIGHT
5168
25-Jul-2024
11:39

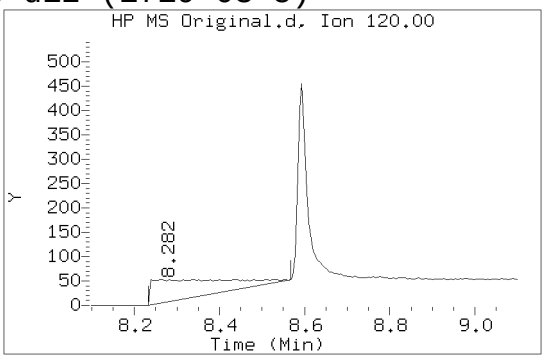


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

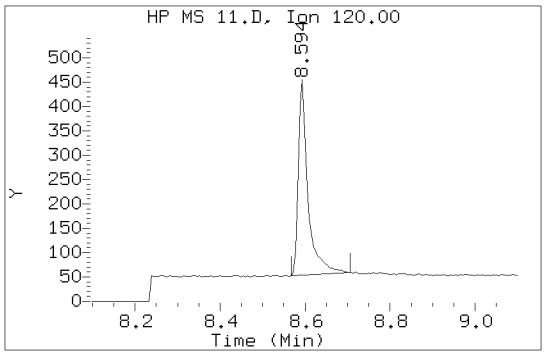
## Chrysene-d12 (1719-03-5)

Reason Code:

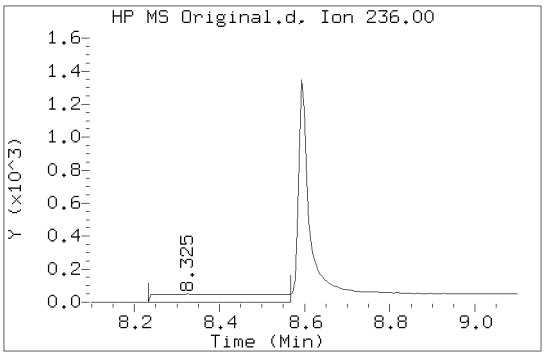
BEFORE
MASS
120
AREA
488
HEIGHT
45
18-Apr-2024
15:08
ALSHS
Server



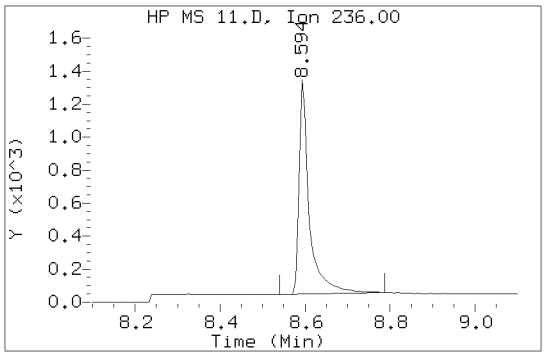

AFTER
MASS
120
AREA
625
HEIGHT
400
25-Jul-2024
11:39




BEFORE
MASS
236
AREA
948
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server



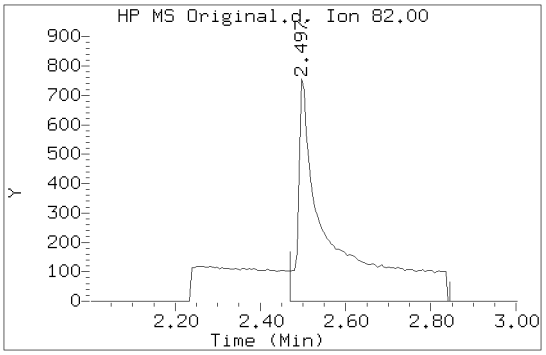

AFTER
MASS
236
AREA
2142
HEIGHT
1296
25-Jul-2024
11:39



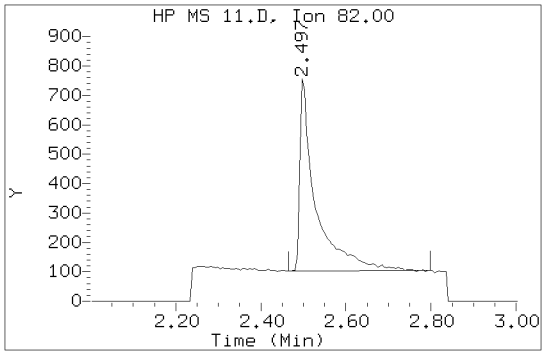

## Nitrobenzene-d5 (4165-60-0)

Reason Code:

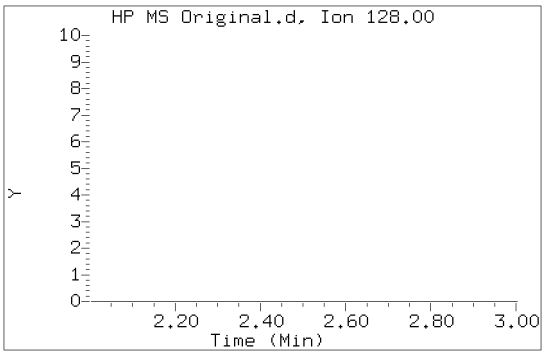
BEFORE
MASS
82
AREA
3957
HEIGHT
756
18-Apr-2024
15:08
ALSHS
Server



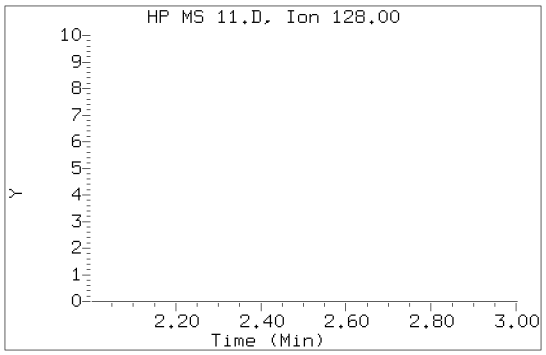

AFTER
MASS
82
AREA
1691
HEIGHT
653
25-Jul-2024
11:39




BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server




AFTER
MASS
128
AREA
0
HEIGHT
0
25-Jul-2024
11:39



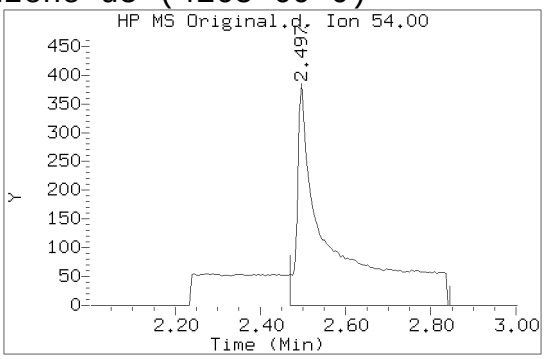
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

## Nitrobenzene-d5 (4165-60-0)

Reason Code:

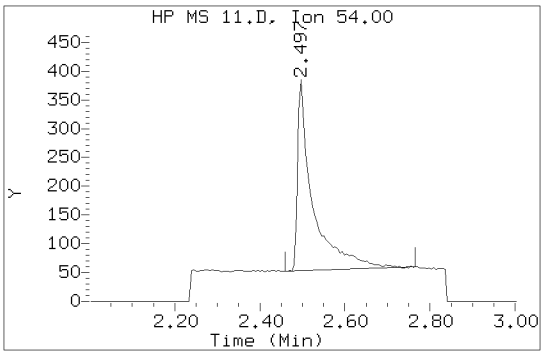
BEFORE

MASS
54
AREA
2061
HEIGHT
385
18-Apr-2024
15:08
ALSHS
Server




AFTER

MASS
54
AREA
818
HEIGHT
332
25-Jul-2024
11:39

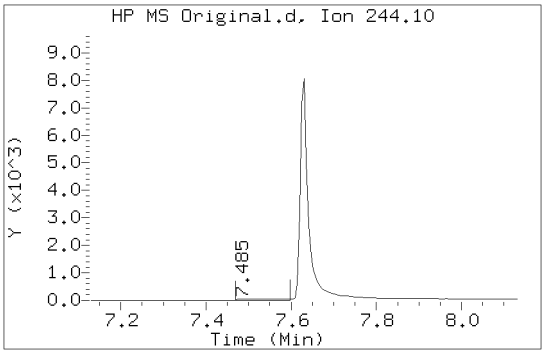



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

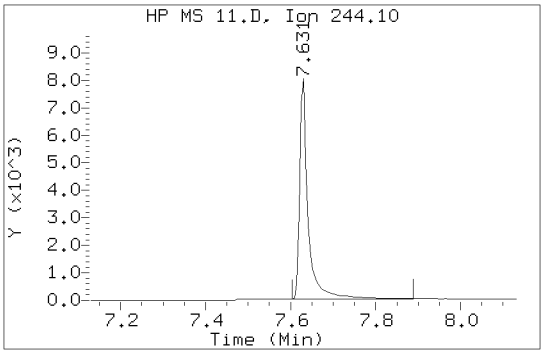
BEFORE

MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



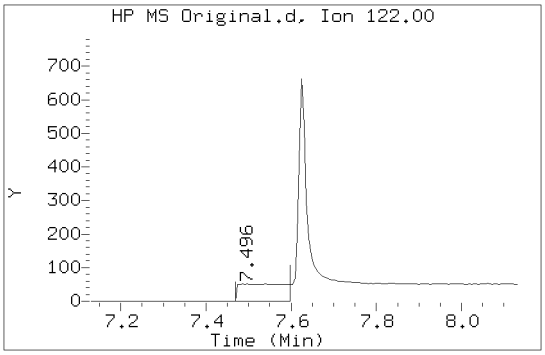

AFTER

MASS
244.1
AREA
11331
HEIGHT
8023
25-Jul-2024
11:39



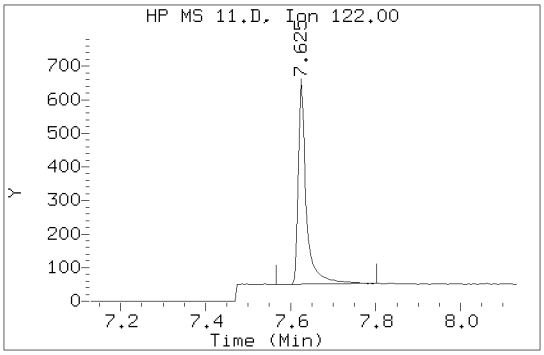

BEFORE

MASS
122
AREA
387
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



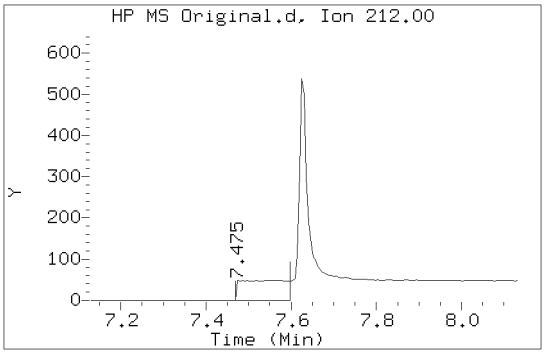

AFTER

MASS
122
AREA
801
HEIGHT
611
25-Jul-2024
11:39



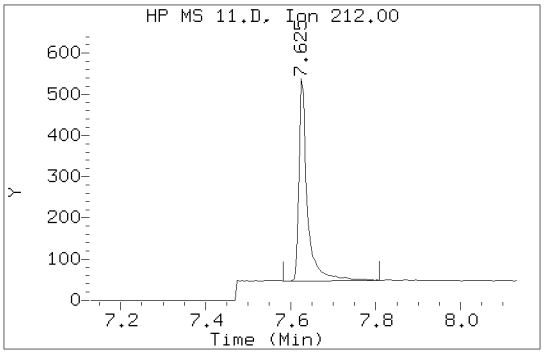

BEFORE

MASS
212
AREA
367
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server




AFTER

MASS
212
AREA
675
HEIGHT
490
25-Jul-2024
11:39

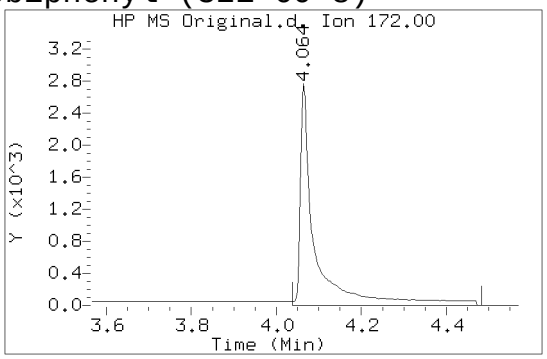


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

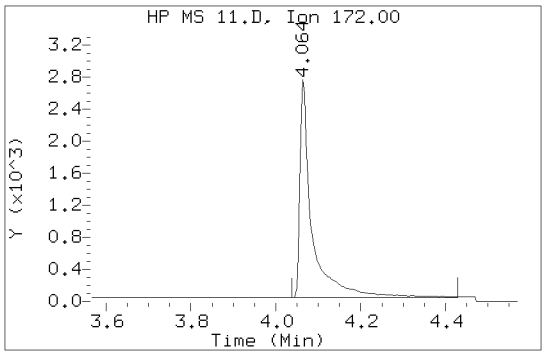
2-Fluorobiphenyl (321-60-8)

Reason Code:

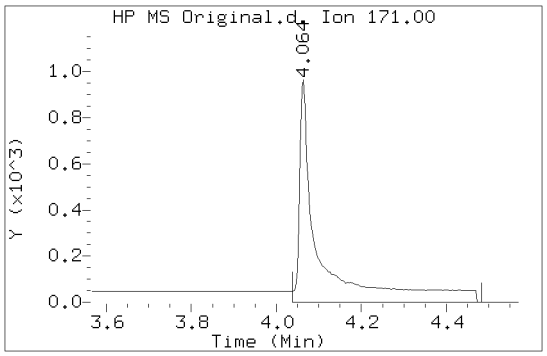
BEFORE
MASS
172
AREA
6739
HEIGHT
2770
18-Apr-2024
15:08
ALSHS
Server



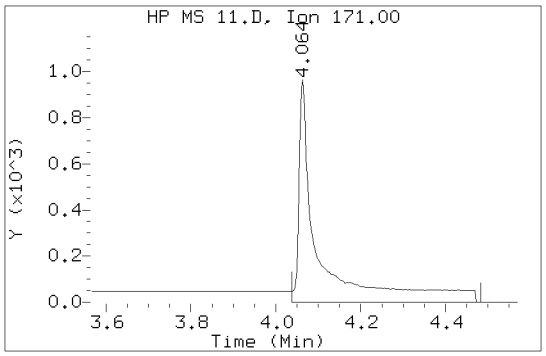

AFTER
MASS
172
AREA
5460
HEIGHT
2724
25-Jul-2024
11:39




BEFORE
MASS
171
AREA
3102
HEIGHT
964
18-Apr-2024
15:08
ALSHS
Server




AFTER
MASS
171
AREA
3102
HEIGHT
964
25-Jul-2024
11:39



# HS24061196 - ME - HG_W_DODICP_W_DOD

ALS WO# HS24061196

**ALS Houston, US**

Date: 12-Jul-24

## FORM 13 - ANALYSIS RUN LOG

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196
Start Date: 01-Jul-2024 End Date: 01-Jul-2024

Run ID:HG04_470995
Instrument:HG04
Method:SW7470A

| Sample No. | D/F | Time | FileID | Analytes |
|---|---|---|---|---|
| ICV | 1 | 01-Jul-2024 11:35 | _8117491 | HG |
| ICB | 1 | 01-Jul-2024 11:37 | _8117492 | HG |
| CRA | 1 | 01-Jul-2024 11:39 | _8117493 | HG |
| CCV 1 | 1 | 01-Jul-2024 11:45 | _8117494 | HG |
| CCB 1 | 1 | 01-Jul-2024 11:46 | _8117495 | HG |
| CCV 2 | 1 | 01-Jul-2024 12:10 | _8117506 | HG |
| CCB 2 | 1 | 01-Jul-2024 12:12 | _8117507 | HG |
| CCV 3 | 1 | 01-Jul-2024 12:31 | _8117518 | HG |
| CCB 3 | 1 | 01-Jul-2024 12:33 | _8117519 | HG |
| CCV 4 | 1 | 01-Jul-2024 13:00 | _8117650 | HG |
| CCB 4 | 1 | 01-Jul-2024 13:02 | _8117651 | HG |
| CCV 5 | 1 | 01-Jul-2024 13:30 | _8117662 | HG |
| CCB 5 | 1 | 01-Jul-2024 13:32 | _8117663 | HG |
| CCV 6 | 1 | 01-Jul-2024 13:51 | _8117674 | HG |
| CCB 6 | 1 | 01-Jul-2024 13:53 | _8117675 | HG |
| CCV 7 | 1 | 01-Jul-2024 14:15 | _8117690 | HG |
| CCB 7 | 1 | 01-Jul-2024 14:17 | _8117691 | HG |
| CCV 8 | 1 | 01-Jul-2024 14:40 | _8117702 | HG |
| CCB 8 | 1 | 01-Jul-2024 14:41 | _8117703 | HG |
| CCV 9 | 1 | 01-Jul-2024 14:56 | _8117708 | HG |
| CCB 9 | 1 | 01-Jul-2024 14:58 | _8117709 | HG |
| CCV 10 | 1 | 01-Jul-2024 16:35 | _8117710 | HG |
| CCB 10 | 1 | 01-Jul-2024 16:36 | _8117711 | HG |
| CCV 11 | 1 | 01-Jul-2024 17:01 | _8117722 | HG |
| CCB 11 | 1 | 01-Jul-2024 17:03 | _8117723 | HG |
| CCV 12 | 1 | 01-Jul-2024 17:23 | _8117734 | HG |
| CCB 12 | 1 | 01-Jul-2024 17:24 | _8117735 | HG |
| MBLK-214374 | 1 | 01-Jul-2024 17:38 | _8117742 | HG |
| LCS-214374 | 1 | 01-Jul-2024 17:39 | _8117743 | HG |
| 18CPTMW14_061824 | 1 | 01-Jul-2024 17:41 | _8117744 | HG |
| 18WW03_061824 | 1 | 01-Jul-2024 17:43 | _8117745 | HG |
| CCV 13 | 1 | 01-Jul-2024 17:46 | _8117746 | HG |
| CCB 13 | 1 | 01-Jul-2024 17:48 | _8117747 | HG |
| 18WW24_061824 | 1 | 01-Jul-2024 17:49 | _8117748 | HG |
| 18WW24_061824_a | 1 | 01-Jul-2024 17:51 | _8117749 | HG |
| MW13_061824 | 1 | 01-Jul-2024 17:53 | _8117750 | HG |
| MW13_061824_a | 1 | 01-Jul-2024 17:55 | _8117751 | HG |
| CO6_061824 | 1 | 01-Jul-2024 17:56 | _8117752 | HG |
| CCV 14 | 1 | 01-Jul-2024 18:08 | _8117758 | HG |
| CCB 14 | 1 | 01-Jul-2024 18:10 | _8117759 | HG |
| ZZZZZZMS | 1 | 01-Jul-2024 18:13 | _8117760 | HG |
| ZZZZZZMSD | 1 | 01-Jul-2024 18:15 | _8117761 | HG |
| CCV 15 | 1 | 01-Jul-2024 18:29 | _8117765 | HG |
| CCB 15 | 1 | 01-Jul-2024 18:31 | _8117766 | HG |
| CRA | 1 | 01-Jul-2024 18:35 | _8117767 | HG |

**ALS Houston, US** Date: 12-Jul-24

## FORM 13 - ANALYSIS RUN LOG

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196
Start Date: 28-Jun-2024 End Date: 28-Jun-2024

Run ID:ICPMS07_470725
Instrument:ICPMS07
Method:

| Sample No. | D/F | Time | FileID | Analytes |
|---|---|---|---|---|
| ICPMS07_470725_Tune | 1 | 28-Jun-2024 00:00 | ICPMS07_470725_Tune_1 | |
| CAL BLK | 1 | 28-Jun-2024 10:48 | 010CALB.d_8105699 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 2/10/200 | 1 | 28-Jun-2024 10:51 | 011CALS.d_8105700 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 5/25/500 | 1 | 28-Jun-2024 10:54 | 012CALS.d_8105701 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 10/50/100 | 1 | 28-Jun-2024 10:56 | 013CALS.d_8105702 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 100/500/10K | 1 | 28-Jun-2024 10:59 | 014CALS.d_8105703 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 200/1000/20K | 1 | 28-Jun-2024 11:02 | 015CALS.d_8105704 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| ICV | 1 | 28-Jun-2024 11:10 | 017_ICV.d_8105706 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| LLICV2 | 1 | 28-Jun-2024 11:15 | 019LCV2.d_8105708 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| LLICV5 | 1 | 28-Jun-2024 11:17 | 020LCV5.d_8105709 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| ICB | 1 | 28-Jun-2024 11:20 | 021_ICB.d_8105710 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| ICSA | 1 | 28-Jun-2024 11:25 | 023ICSA.d_8105712 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| ICSAB | 1 | 28-Jun-2024 11:27 | 024ICSB.d_8105713 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CAL BLK | 1 | 28-Jun-2024 18:26 | 165CALB.d_8107555 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 2/10/200 | 1 | 28-Jun-2024 18:28 | 166CALS.d_8107556 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 5/25/500 | 1 | 28-Jun-2024 18:31 | 167CALS.d_8107557 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 10/50/100 | 1 | 28-Jun-2024 18:33 | 168CALS.d_8107558 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 100/500/10K | 1 | 28-Jun-2024 18:36 | 169CALS.d_8107559 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 200/1000/20K | 1 | 28-Jun-2024 18:39 | 170CALS.d_8107560 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| ICV | 1 | 28-Jun-2024 18:49 | 172_ICV.d_8107562 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| LLCCV2 | 1 | 28-Jun-2024 18:54 | 174LCV2.d_8107564 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| LLCCV5 | 1 | 28-Jun-2024 18:56 | 175LCV5.d_8107565 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| ICCB 1 | 1 | 28-Jun-2024 18:59 | 176_ICB.d_8107566 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CCV 1 | 1 | 28-Jun-2024 19:40 | 179_CCV.d_8108620 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CCB 2 | 1 | 28-Jun-2024 19:43 | 180_CCB.d_8108621 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| MBLK-214140 | 1 | 28-Jun-2024 19:45 | 181SMPL.d_8108622 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| LCS-214140 | 1 | 28-Jun-2024 19:47 | 182SMPL.d_8108623 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CO6_061824 | 1 | 28-Jun-2024 19:50 | 183SMPL.d_8108624 | AG AL AS BA BE CA CD CO CR CU K MG MN NA NI PB SB SE TL V ZN |
| CO6_061824SD | 5 | 28-Jun-2024 19:52 | 184SMPL.d_8108625 | AG AL AS BA BE CA CD CO CR CU K MG MN NA NI PB SB SE TL V ZN |
| CO6_061824MS | 1 | 28-Jun-2024 19:55 | 185SMPL.d_8108626 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CO6_061824MSD | 1 | 28-Jun-2024 19:57 | 186SMPL.d_8108627 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |

**ALS Houston, US**

Date: 12-Jul-24

## FORM 13 - ANALYSIS RUN LOG

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196
Start Date: 28-Jun-2024 End Date: 28-Jun-2024

Run ID:ICPMS07_470725
Instrument:ICPMS07
Method:

| Sample No. | D/F | Time | FileID | Analytes |
|---|---|---|---|---|
| CO6_061824PDS | 1 | 28-Jun-2024 20:00 | 187SMPL.d_8108628 | AG AL AS BA BE CA CD CO CR CU K MG MN NA NI PB SB SE TL V ZN |
| CCV 2 | 1 | 28-Jun-2024 20:04 | 189_CCV.d_8108630 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CCB 3 | 1 | 28-Jun-2024 20:07 | 190_CCB.d_8108631 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CCV 3 | 1 | 28-Jun-2024 20:22 | 196_CCV.d_8108637 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CCB 4 | 1 | 28-Jun-2024 20:24 | 197_CCB.d_8108638 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 18CPTMW14_061824 | 1 | 28-Jun-2024 20:26 | 198SMPL.d_8108639 | AG AL AS BE CD CO CR CU FE K MG MN NI PB SB SE TL V ZN |
| 18WW03_061824 | 1 | 28-Jun-2024 20:29 | 199SMPL.d_8108640 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 18WW24_061824 | 1 | 28-Jun-2024 20:31 | 200SMPL.d_8108641 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 18WW24_061824_a | 1 | 28-Jun-2024 20:34 | 201SMPL.d_8108642 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| MW13_061824 | 1 | 28-Jun-2024 20:36 | 202SMPL.d_8108643 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| MW13_061824_a | 1 | 28-Jun-2024 20:39 | 203SMPL.d_8108644 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CCV 4 | 1 | 28-Jun-2024 20:41 | 204_CCV.d_8108645 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CCB 5 | 1 | 28-Jun-2024 20:44 | 205_CCB.d_8108646 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CCV 5 | 1 | 28-Jun-2024 20:58 | 211_CCV.d_8108652 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CCB 6 | 1 | 28-Jun-2024 21:01 | 212_CCB.d_8108653 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |

**ALS Houston, US** Date: 12-Jul-24

## FORM 13 - ANALYSIS RUN LOG

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196
Start Date: 01-Jul-2024 End Date: 01-Jul-2024

Run ID:ICPMS07_470915
Instrument:ICPMS07
Method:

| Sample No. | D/F | Time | FileID | Analytes |
|---|---|---|---|---|
| ICPMS07_470915_Tune | 1 | 01-Jul-2024 00:00 | ICPMS07_470915_Tune_1 | |
| CAL BLK | 1 | 01-Jul-2024 10:13 | 010CALB.d_8110889 | BA CA FE NA |
| 2/10/200 | 1 | 01-Jul-2024 10:15 | 011CALS.d_8110890 | BA CA FE NA |
| 5/25/500 | 1 | 01-Jul-2024 10:18 | 012CALS.d_8110891 | BA CA FE NA |
| 10/50/100 | 1 | 01-Jul-2024 10:21 | 013CALS.d_8110892 | BA CA FE NA |
| 100/500/10K | 1 | 01-Jul-2024 10:23 | 014CALS.d_8110893 | BA CA FE NA |
| 200/1000/20K | 1 | 01-Jul-2024 10:27 | 015CALS.d_8110894 | BA CA FE NA |
| 100/500/10K | 1 | 01-Jul-2024 10:40 | 020CALS.d_8110899 | BA CA FE NA |
| ICV | 1 | 01-Jul-2024 10:48 | 022_ICV.d_8110901 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| LLICV2 | 1 | 01-Jul-2024 10:53 | 024LCV2.d_8110903 | BA CA FE NA |
| LLICV5 | 1 | 01-Jul-2024 10:55 | 025LCV5.d_8110904 | BA CA FE NA |
| ICB | 1 | 01-Jul-2024 10:57 | 026_ICB.d_8110905 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| ICSA | 1 | 01-Jul-2024 11:04 | 028ICSA.d_8110915 | BA CA FE NA |
| ICSAB | 1 | 01-Jul-2024 11:06 | 029ICSB.d_8110916 | BA CA FE NA |
| CCV 1 | 1 | 01-Jul-2024 11:25 | 034_CCV.d_8111146 | BA CA FE NA |
| CCB 1 | 1 | 01-Jul-2024 11:28 | 035_CCB.d_8111147 | BA CA FE NA |
| CO6_061824 | 10 | 01-Jul-2024 11:32 | 036SMPL.d_8111148 | FE |
| CO6_061824SD | 50 | 01-Jul-2024 11:34 | 037SMPL.d_8111149 | FE |
| CO6_061824PDS | 10 | 01-Jul-2024 11:36 | 038SMPL.d_8111150 | FE |
| 18CPTMW14_061824 | 20 | 01-Jul-2024 11:44 | 041SMPL.d_8111153 | BA CA NA |
| CCV 2 | 1 | 01-Jul-2024 11:56 | 046_CCV.d_8111187 | BA CA FE NA |
| CCB 2 | 1 | 01-Jul-2024 11:58 | 047_CCB.d_8111188 | BA CA FE NA |

**ALS Houston, US** Date: 12-Jul-24

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Run ID: HG04_470995
Instrument: HG04
Method: SW7470A

| ICV | Date: 01-Jul-2024 11:35 | | Seq: 8117491 | ICV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.04 | 101 | 90-110 | |

| CCV1 | Date: 01-Jul-2024 11:45 | | Seq: 8117494 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.96 | 99 | 90-110 | |

| CCV2 | Date: 01-Jul-2024 12:10 | | Seq: 8117506 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.96 | 99 | 90-110 | |

| CCV3 | Date: 01-Jul-2024 12:31 | | Seq: 8117518 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.96 | 99 | 90-110 | |

| CCV4 | Date: 01-Jul-2024 13:00 | | Seq: 8117650 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.99 | 100 | 90-110 | |

| CCV5 | Date: 01-Jul-2024 13:30 | | Seq: 8117662 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.74 | 95 | 90-110 | |

| CCV6 | Date: 01-Jul-2024 13:51 | | Seq: 8117674 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.99 | 100 | 90-110 | |

| CCV7 | Date: 01-Jul-2024 14:15 | | Seq: 8117690 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.98 | 100 | 90-110 | |

| CCV8 | Date: 01-Jul-2024 14:40 | | Seq: 8117702 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.99 | 100 | 90-110 | |

| CCV9 | Date: 01-Jul-2024 14:56 | | Seq: 8117708 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.03 | 101 | 90-110 | |

| CCV10 | Date: 01-Jul-2024 16:35 | | Seq: 8117710 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.97 | 99 | 90-110 | |

| CCV11 | Date: 01-Jul-2024 17:01 | | Seq: 8117722 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.94 | 99 | 90-110 | |

| CCV12 | Date: 01-Jul-2024 17:23 | | Seq: 8117734 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.95 | 99 | 90-110 | |

| CCV13 | Date: 01-Jul-2024 17:46 | | Seq: 8117746 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.98 | 100 | 90-110 | |

**ALS Houston, US** Date: 12-Jul-24

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Run ID: HG04_470995
Instrument: HG04
Method: SW7470A

CCV14 Date: 01-Jul-2024 18:08 Seq: 8117758 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 4.91 | 98 | 90-110 | |

CCV15 Date: 01-Jul-2024 18:29 Seq: 8117765 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 4.83 | 97 | 90-110 | |

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

ICV Date: 28-Jun-2024 11:10 Seq: 8105706 ICV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 106.147 | 106 | 90-110 | |
| Antimony | 100 | 103.492 | 103 | 90-110 | |
| Arsenic | 100 | 105.762 | 106 | 90-110 | |
| Barium | 100 | 101.896 | 102 | 90-110 | |
| Beryllium | 100 | 106.066 | 106 | 90-110 | |
| Cadmium | 100 | 103.99 | 104 | 90-110 | |
| Calcium | 10000 | 10310.509 | 103 | 90-110 | |
| Chromium | 100 | 104.661 | 105 | 90-110 | |
| Cobalt | 100 | 105.784 | 106 | 90-110 | |
| Copper | 100 | 104.68 | 105 | 90-110 | |
| Iron | 10000 | 10287.363 | 103 | 90-110 | |
| Lead | 100 | 102.998 | 103 | 90-110 | |
| Magnesium | 10000 | 10307.876 | 103 | 90-110 | |
| Manganese | 100 | 104.926 | 105 | 90-110 | |
| Nickel | 100 | 105.465 | 105 | 90-110 | |
| Potassium | 10000 | 10258.83 | 103 | 90-110 | |
| Selenium | 100 | 106.554 | 107 | 90-110 | |
| Silver | 100 | 104.173 | 104 | 90-110 | |
| Sodium | 10000 | 10293.537 | 103 | 90-110 | |
| Thallium | 100 | 105.131 | 105 | 90-110 | |
| Vanadium | 100 | 105.553 | 106 | 90-110 | |
| Zinc | 100 | 104.98 | 105 | 90-110 | |

ICV Date: 28-Jun-2024 18:49 Seq: 8107562 ICV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 102.565 | 103 | 90-110 | |
| Antimony | 100 | 101.918 | 102 | 90-110 | |
| Arsenic | 100 | 101.924 | 102 | 90-110 | |
| Barium | 100 | 99.353 | 99 | 90-110 | |
| Beryllium | 100 | 102.861 | 103 | 90-110 | |
| Cadmium | 100 | 102.564 | 103 | 90-110 | |
| Calcium | 10000 | 10095.782 | 101 | 90-110 | |
| Chromium | 100 | 100.276 | 100 | 90-110 | |
| Cobalt | 100 | 102.238 | 102 | 90-110 | |
| Copper | 100 | 99.844 | 100 | 90-110 | |
| Iron | 10000 | 9976.103 | 100 | 90-110 | |
| Lead | 100 | 101.744 | 102 | 90-110 | |
| Magnesium | 10000 | 10053.926 | 101 | 90-110 | |
| Manganese | 100 | 101.295 | 101 | 90-110 | |
| Nickel | 100 | 102.335 | 102 | 90-110 | |
| Potassium | 10000 | 9993.594 | 100 | 90-110 | |
| Selenium | 100 | 101.73 | 102 | 90-110 | |
| Silver | 100 | 102.862 | 103 | 90-110 | |
| Sodium | 10000 | 9973.239 | 100 | 90-110 | |
| Thallium | 100 | 104.028 | 104 | 90-110 | |
| Vanadium | 100 | 101.037 | 101 | 90-110 | |
| Zinc | 100 | 101.037 | 101 | 90-110 | |

CCV1 Date: 28-Jun-2024 19:40 Seq: 8108620 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 101.76 | 102 | 90-110 | |
| Antimony | 100 | 102.532 | 103 | 90-110 | |
| Arsenic | 100 | 101.351 | 101 | 90-110 | |
| Barium | 100 | 98.331 | 98 | 90-110 | |
| Beryllium | 100 | 100.544 | 101 | 90-110 | |

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

| CCV1 | Date: 28-Jun-2024 19:40 | | Seq: 8108620 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Cadmium | 100 | 100.071 | 100 | 90-110 | |
| Calcium | 10000 | 10147.677 | 101 | 90-110 | |
| Chromium | 100 | 99.574 | 100 | 90-110 | |
| Cobalt | 100 | 101.133 | 101 | 90-110 | |
| Copper | 100 | 99.043 | 99 | 90-110 | |
| Iron | 10000 | 9972.965 | 100 | 90-110 | |
| Lead | 100 | 98.565 | 99 | 90-110 | |
| Magnesium | 10000 | 10151.568 | 102 | 90-110 | |
| Manganese | 100 | 100.107 | 100 | 90-110 | |
| Nickel | 100 | 100.759 | 101 | 90-110 | |
| Potassium | 10000 | 10070.265 | 101 | 90-110 | |
| Selenium | 100 | 101.973 | 102 | 90-110 | |
| Silver | 100 | 100.861 | 101 | 90-110 | |
| Sodium | 10000 | 9997.113 | 100 | 90-110 | |
| Thallium | 100 | 98.251 | 98 | 90-110 | |
| Vanadium | 100 | 100.569 | 101 | 90-110 | |
| Zinc | 100 | 101.555 | 102 | 90-110 | |

| CCV2 | Date: 28-Jun-2024 20:04 | | Seq: 8108630 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Aluminum | 100 | 100.291 | 100 | 90-110 | |
| Antimony | 100 | 103.949 | 104 | 90-110 | |
| Arsenic | 100 | 102.172 | 102 | 90-110 | |
| Barium | 100 | 99.787 | 100 | 90-110 | |
| Beryllium | 100 | 98.121 | 98 | 90-110 | |
| Cadmium | 100 | 102.094 | 102 | 90-110 | |
| Calcium | 10000 | 10145.376 | 101 | 90-110 | |
| Chromium | 100 | 100.485 | 100 | 90-110 | |
| Cobalt | 100 | 102.543 | 103 | 90-110 | |
| Copper | 100 | 100.233 | 100 | 90-110 | |
| Iron | 10000 | 10036.94 | 100 | 90-110 | |
| Lead | 100 | 101.025 | 101 | 90-110 | |
| Magnesium | 10000 | 10075.223 | 101 | 90-110 | |
| Manganese | 100 | 101.094 | 101 | 90-110 | |
| Nickel | 100 | 102.756 | 103 | 90-110 | |
| Potassium | 10000 | 10050.889 | 101 | 90-110 | |
| Selenium | 100 | 102.148 | 102 | 90-110 | |
| Silver | 100 | 102.082 | 102 | 90-110 | |
| Sodium | 10000 | 9990.018 | 100 | 90-110 | |
| Thallium | 100 | 100.082 | 100 | 90-110 | |
| Vanadium | 100 | 101.863 | 102 | 90-110 | |
| Zinc | 100 | 101.653 | 102 | 90-110 | |

| CCV3 | Date: 28-Jun-2024 20:22 | | Seq: 8108637 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Aluminum | 100 | 102.671 | 103 | 90-110 | |
| Antimony | 100 | 104.758 | 105 | 90-110 | |
| Arsenic | 100 | 103.704 | 104 | 90-110 | |
| Barium | 100 | 100.222 | 100 | 90-110 | |
| Beryllium | 100 | 96.896 | 97 | 90-110 | |
| Cadmium | 100 | 102.233 | 102 | 90-110 | |
| Calcium | 10000 | 10378.361 | 104 | 90-110 | |
| Chromium | 100 | 101.73 | 102 | 90-110 | |
| Cobalt | 100 | 104.175 | 104 | 90-110 | |
| Copper | 100 | 101.801 | 102 | 90-110 | |

**ALS Houston, US** Date: 12-Jul-24

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

CCV3 Date: 28-Jun-2024 20:22 Seq: 8108637 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Iron | 10000 | 10251.8 | 103 | 90-110 | |
| Lead | 100 | 102.134 | 102 | 90-110 | |
| Magnesium | 10000 | 10202.055 | 102 | 90-110 | |
| Manganese | 100 | 102.624 | 103 | 90-110 | |
| Nickel | 100 | 104.333 | 104 | 90-110 | |
| Potassium | 10000 | 10309.927 | 103 | 90-110 | |
| Selenium | 100 | 104.535 | 105 | 90-110 | |
| Silver | 100 | 103.306 | 103 | 90-110 | |
| Sodium | 10000 | 10237.128 | 102 | 90-110 | |
| Thallium | 100 | 101.03 | 101 | 90-110 | |
| Vanadium | 100 | 102.153 | 102 | 90-110 | |
| Zinc | 100 | 102.566 | 103 | 90-110 | |

CCV4 Date: 28-Jun-2024 20:41 Seq: 8108645 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 103.742 | 104 | 90-110 | |
| Antimony | 100 | 107.489 | 107 | 90-110 | |
| Arsenic | 100 | 103.477 | 103 | 90-110 | |
| Barium | 100 | 100.333 | 100 | 90-110 | |
| Beryllium | 100 | 96.763 | 97 | 90-110 | |
| Cadmium | 100 | 101.121 | 101 | 90-110 | |
| Calcium | 10000 | 10240.366 | 102 | 90-110 | |
| Chromium | 100 | 101.874 | 102 | 90-110 | |
| Cobalt | 100 | 104.325 | 104 | 90-110 | |
| Copper | 100 | 101.666 | 102 | 90-110 | |
| Iron | 10000 | 10263.082 | 103 | 90-110 | |
| Lead | 100 | 101.671 | 102 | 90-110 | |
| Magnesium | 10000 | 10185.584 | 102 | 90-110 | |
| Manganese | 100 | 102.276 | 102 | 90-110 | |
| Nickel | 100 | 104.598 | 105 | 90-110 | |
| Potassium | 10000 | 10179.012 | 102 | 90-110 | |
| Selenium | 100 | 102.09 | 102 | 90-110 | |
| Silver | 100 | 102.529 | 103 | 90-110 | |
| Sodium | 10000 | 10162.204 | 102 | 90-110 | |
| Thallium | 100 | 101.55 | 102 | 90-110 | |
| Vanadium | 100 | 101.731 | 102 | 90-110 | |
| Zinc | 100 | 103.144 | 103 | 90-110 | |

CCV5 Date: 28-Jun-2024 20:58 Seq: 8108652 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 103.303 | 103 | 90-110 | |
| Antimony | 100 | 106.987 | 107 | 90-110 | |
| Arsenic | 100 | 104.204 | 104 | 90-110 | |
| Barium | 100 | 101.544 | 102 | 90-110 | |
| Beryllium | 100 | 94.898 | 95 | 90-110 | |
| Cadmium | 100 | 102.309 | 102 | 90-110 | |
| Calcium | 10000 | 10394.613 | 104 | 90-110 | |
| Chromium | 100 | 102.034 | 102 | 90-110 | |
| Cobalt | 100 | 104.648 | 105 | 90-110 | |
| Copper | 100 | 101.887 | 102 | 90-110 | |
| Iron | 10000 | 10286.069 | 103 | 90-110 | |
| Lead | 100 | 102.899 | 103 | 90-110 | |
| Magnesium | 10000 | 10245.077 | 102 | 90-110 | |
| Manganese | 100 | 101.488 | 101 | 90-110 | |
| Nickel | 100 | 104.563 | 105 | 90-110 | |

**ALS Houston, US** Date: 12-Jul-24

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

CCV5 Date: 28-Jun-2024 20:58 Seq: 8108652 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Potassium | 10000 | 10375.91 | 104 | 90-110 | |
| Selenium | 100 | 104.274 | 104 | 90-110 | |
| Silver | 100 | 105.233 | 105 | 90-110 | |
| Sodium | 10000 | 10319.392 | 103 | 90-110 | |
| Thallium | 100 | 102.238 | 102 | 90-110 | |
| Vanadium | 100 | 102.869 | 103 | 90-110 | |
| Zinc | 100 | 103.165 | 103 | 90-110 | |

**ALS Houston, US** Date: 12-Jul-24

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Run ID: ICPMS07_470915
Instrument: ICPMS07
Method: SW6020A

ICV Date: 01-Jul-2024 10:48 Seq: 8110901 ICV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Barium | 100 | 97.999 | 98 | 90-110 | |
| Calcium | 10000 | 9898.566 | 99 | 90-110 | |
| Iron | 10000 | 9941.715 | 99 | 90-110 | |
| Sodium | 10000 | 10150.891 | 102 | 90-110 | |

CCV1 Date: 01-Jul-2024 11:25 Seq: 8111146 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Barium | 100 | 99.413 | 99 | 90-110 | |
| Calcium | 10000 | 10113.376 | 101 | 90-110 | |
| Iron | 10000 | 10121.723 | 101 | 90-110 | |
| Sodium | 10000 | 10274.87 | 103 | 90-110 | |

CCV2 Date: 01-Jul-2024 11:56 Seq: 8111187 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Barium | 100 | 99.034 | 99 | 90-110 | |
| Calcium | 10000 | 10019.72 | 100 | 90-110 | |
| Iron | 10000 | 10003.9 | 100 | 90-110 | |
| Sodium | 10000 | 10227.837 | 102 | 90-110 | |

**ALS Houston, US** Date: 12-Jul-24

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Run ID: HG04_470995
Instrument: HG04
Method: SW7470A

| | | | | | |
|---|---|---|---|---|---|
| ICB | Date: 01-Jul-2024 11:37 | | Seq: 8117492 | ICB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB1 | Date: 01-Jul-2024 11:46 | | Seq: 8117495 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | -0.033 | 0.03 | 0.2 | J | |
| CCB2 | Date: 01-Jul-2024 12:12 | | Seq: 8117507 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB3 | Date: 01-Jul-2024 12:33 | | Seq: 8117519 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB4 | Date: 01-Jul-2024 13:02 | | Seq: 8117651 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB5 | Date: 01-Jul-2024 13:32 | | Seq: 8117663 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB6 | Date: 01-Jul-2024 13:53 | | Seq: 8117675 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB7 | Date: 01-Jul-2024 14:17 | | Seq: 8117691 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB8 | Date: 01-Jul-2024 14:41 | | Seq: 8117703 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB9 | Date: 01-Jul-2024 14:58 | | Seq: 8117709 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB10 | Date: 01-Jul-2024 16:36 | | Seq: 8117711 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB11 | Date: 01-Jul-2024 17:03 | | Seq: 8117723 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB12 | Date: 01-Jul-2024 17:24 | | Seq: 8117735 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| MBLK-214374 | Date: 01-Jul-2024 17:38 | | Seq: 8117742 | MBLK | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB13 | Date: 01-Jul-2024 17:48 | | Seq: 8117747 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

**ALS Houston, US** Date: 12-Jul-24

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Run ID: HG04_470995
Instrument: HG04
Method: SW7470A

| CCB14 | Date: 01-Jul-2024 18:10 | | Seq: 8117759 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB15 | Date: 01-Jul-2024 18:31 | | Seq: 8117766 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

| ICB | Date: 28-Jun-2024 11:20 | Seq: 8105710 | ICB | Units: ug/L |
|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** |
| Aluminum | 10 | 1.8 | 10 | U |
| Antimony | 5 | 0.4 | 5 | U |
| Arsenic | 5 | 0.4 | 5 | U |
| Barium | 5 | 1.9 | 5 | U |
| Beryllium | 2 | 0.2 | 2 | U |
| Cadmium | 2 | 0.2 | 2 | U |
| Calcium | 500 | 34 | 500 | U |
| Chromium | 5 | 0.4 | 5 | U |
| Cobalt | 5 | 0.1 | 5 | U |
| Copper | 5 | 1 | 5 | U |
| Iron | 200 | 12 | 200 | U |
| Lead | 5 | 0.6 | 5 | U |
| Magnesium | 200 | 10 | 200 | U |
| Manganese | 5 | 0.7 | 5 | U |
| Nickel | 5 | 0.6 | 5 | U |
| Potassium | 200 | 18 | 200 | U |
| Selenium | 5 | 1.1 | 5 | U |
| Silver | 5 | 0.2 | 5 | U |
| Sodium | 200 | 14 | 200 | U |
| Thallium | 2 | 0.2 | 2 | U |
| Vanadium | 5 | 0.6 | 5 | U |
| Zinc | 5 | 2 | 5 | U |

| ICCB1 | Date: 28-Jun-2024 18:59 | Seq: 8107566 | CCB | Units: ug/L |
|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** |
| Aluminum | 2.111 | 1.8 | 10 | J |
| Antimony | 5 | 0.4 | 5 | U |
| Arsenic | 5 | 0.4 | 5 | U |
| Barium | 5 | 1.9 | 5 | U |
| Beryllium | 2 | 0.2 | 2 | U |
| Cadmium | 2 | 0.2 | 2 | U |
| Calcium | 500 | 34 | 500 | U |
| Chromium | 5 | 0.4 | 5 | U |
| Cobalt | 5 | 0.1 | 5 | U |
| Copper | 5 | 1 | 5 | U |
| Iron | 200 | 12 | 200 | U |
| Lead | 5 | 0.6 | 5 | U |
| Magnesium | 200 | 10 | 200 | U |
| Manganese | 5 | 0.7 | 5 | U |
| Nickel | 5 | 0.6 | 5 | U |
| Potassium | 200 | 18 | 200 | U |
| Selenium | 5 | 1.1 | 5 | U |
| Silver | 5 | 0.2 | 5 | U |
| Sodium | 200 | 14 | 200 | U |
| Thallium | 2 | 0.2 | 2 | U |
| Vanadium | 5 | 0.6 | 5 | U |
| Zinc | 5 | 2 | 5 | U |

| CCB2 | Date: 28-Jun-2024 19:43 | Seq: 8108621 | CCB | Units: ug/L |
|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** |
| Aluminum | 10 | 1.8 | 10 | U |
| Antimony | 2 | 0.4 | 2 | U |
| Arsenic | 2 | 0.4 | 2 | U |
| Barium | 4 | 1.9 | 4 | U |
| Beryllium | 2 | 0.2 | 2 | U |

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

| CCB2 | Date: 28-Jun-2024 19:43 | | Seq: 8108621 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Cadmium | 2 | 0.2 | 2 | U | |
| Calcium | 500 | 34 | 500 | U | |
| Chromium | 4 | 0.4 | 4 | U | |
| Cobalt | 5 | 0.2 | 5 | U | |
| Copper | 2 | 1 | 2 | U | |
| Iron | 200 | 12 | 200 | U | |
| Lead | 2 | 0.6 | 2 | U | |
| Magnesium | 200 | 10 | 200 | U | |
| Manganese | 5 | 0.7 | 5 | U | |
| Nickel | 2 | 0.6 | 2 | U | |
| Potassium | 200 | 18 | 200 | U | |
| Selenium | 2 | 1.1 | 2 | U | |
| Silver | 2 | 0.2 | 2 | U | |
| Sodium | 200 | 14 | 200 | U | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | -0.64 | 0.6 | 5 | J | |
| Zinc | 4 | 2 | 4 | U | |

| MBLK-214140 | Date: 28-Jun-2024 19:45 | | Seq: 8108622 | MBLK | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Aluminum | 10 | 1.8 | 10 | U | |
| Antimony | 5 | 0.4 | 5 | U | |
| Arsenic | 5 | 0.4 | 5 | U | |
| Barium | 5 | 1.9 | 5 | U | |
| Beryllium | 2 | 0.2 | 2 | U | |
| Cadmium | 2 | 0.2 | 2 | U | |
| Calcium | 500 | 34 | 500 | U | |
| Chromium | 5 | 0.4 | 5 | U | |
| Cobalt | 5 | 0.1 | 5 | U | |
| Copper | 5 | 1 | 5 | U | |
| Iron | 200 | 12 | 200 | U | |
| Lead | 5 | 0.6 | 5 | U | |
| Magnesium | 200 | 10 | 200 | U | |
| Manganese | 5 | 0.7 | 5 | U | |
| Nickel | 5 | 0.6 | 5 | U | |
| Potassium | 200 | 18 | 200 | U | |
| Selenium | 5 | 1.1 | 5 | U | |
| Silver | 5 | 0.2 | 5 | U | |
| Sodium | 200 | 14 | 200 | U | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | 5 | 0.6 | 5 | U | |
| Zinc | 5 | 2 | 5 | U | |

| CCB3 | Date: 28-Jun-2024 20:07 | | Seq: 8108631 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Aluminum | 10 | 1.8 | 10 | U | |
| Antimony | 2 | 0.4 | 2 | U | |
| Arsenic | 2 | 0.4 | 2 | U | |
| Barium | 4 | 1.9 | 4 | U | |
| Beryllium | 2 | 0.2 | 2 | U | |
| Cadmium | 2 | 0.2 | 2 | U | |
| Calcium | 500 | 34 | 500 | U | |
| Chromium | 4 | 0.4 | 4 | U | |
| Cobalt | 5 | 0.2 | 5 | U | |
| Copper | 2 | 1 | 2 | U | |

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

| CCB3 | Date: 28-Jun-2024 20:07 | | Seq: 8108631 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Iron | 200 | 12 | 200 | U | |
| Lead | 2 | 0.6 | 2 | U | |
| Magnesium | 200 | 10 | 200 | U | |
| Manganese | 5 | 0.7 | 5 | U | |
| Nickel | 2 | 0.6 | 2 | U | |
| Potassium | 200 | 18 | 200 | U | |
| Selenium | 2 | 1.1 | 2 | U | |
| Silver | 2 | 0.2 | 2 | U | |
| Sodium | 25.12 | 14 | 200 | J | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | -0.681 | 0.6 | 5 | J | |
| Zinc | 4 | 2 | 4 | U | |

| CCB4 | Date: 28-Jun-2024 20:24 | | Seq: 8108638 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Aluminum | 10 | 1.8 | 10 | U | |
| Antimony | 2 | 0.4 | 2 | U | |
| Arsenic | 2 | 0.4 | 2 | U | |
| Barium | 4 | 1.9 | 4 | U | |
| Beryllium | 2 | 0.2 | 2 | U | |
| Cadmium | 2 | 0.2 | 2 | U | |
| Calcium | 500 | 34 | 500 | U | |
| Chromium | 4 | 0.4 | 4 | U | |
| Cobalt | 5 | 0.2 | 5 | U | |
| Copper | 2 | 1 | 2 | U | |
| Iron | 200 | 12 | 200 | U | |
| Lead | 2 | 0.6 | 2 | U | |
| Magnesium | 200 | 10 | 200 | U | |
| Manganese | 5 | 0.7 | 5 | U | |
| Nickel | 2 | 0.6 | 2 | U | |
| Potassium | 200 | 18 | 200 | U | |
| Selenium | 2 | 1.1 | 2 | U | |
| Silver | 2 | 0.2 | 2 | U | |
| Sodium | 98.68 | 14 | 200 | J | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | -0.722 | 0.6 | 5 | J | |
| Zinc | 4 | 2 | 4 | U | |

| CCB5 | Date: 28-Jun-2024 20:44 | | Seq: 8108646 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Aluminum | 10 | 1.8 | 10 | U | |
| Antimony | 2 | 0.4 | 2 | U | |
| Arsenic | 2 | 0.4 | 2 | U | |
| Barium | 4 | 1.9 | 4 | U | |
| Beryllium | 2 | 0.2 | 2 | U | |
| Cadmium | 2 | 0.2 | 2 | U | |
| Calcium | 500 | 34 | 500 | U | |
| Chromium | 4 | 0.4 | 4 | U | |
| Cobalt | 5 | 0.2 | 5 | U | |
| Copper | 2 | 1 | 2 | U | |
| Iron | 200 | 12 | 200 | U | |
| Lead | 2 | 0.6 | 2 | U | |
| Magnesium | 200 | 10 | 200 | U | |
| Manganese | 5 | 0.7 | 5 | U | |
| Nickel | 2 | 0.6 | 2 | U | |

**ALS Houston, US** Date: 12-Jul-24

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

| CCB5 | Date: 28-Jun-2024 20:44 | | Seq: 8108646 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Potassium | 200 | 18 | 200 | U | |
| Selenium | 2 | 1.1 | 2 | U | |
| Silver | 2 | 0.2 | 2 | U | |
| Sodium | 80.95 | 14 | 200 | J | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | -0.724 | 0.6 | 5 | J | |
| Zinc | 4 | 2 | 4 | U | |

| CCB6 | Date: 28-Jun-2024 21:01 | | Seq: 8108653 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Aluminum | 10 | 1.8 | 10 | U | |
| Antimony | 2 | 0.4 | 2 | U | |
| Arsenic | 2 | 0.4 | 2 | U | |
| Barium | 4 | 1.9 | 4 | U | |
| Beryllium | 2 | 0.2 | 2 | U | |
| Cadmium | 2 | 0.2 | 2 | U | |
| Calcium | 500 | 34 | 500 | U | |
| Chromium | 4 | 0.4 | 4 | U | |
| Cobalt | 5 | 0.2 | 5 | U | |
| Copper | 2 | 1 | 2 | U | |
| Iron | 200 | 12 | 200 | U | |
| Lead | 2 | 0.6 | 2 | U | |
| Magnesium | 200 | 10 | 200 | U | |
| Manganese | 5 | 0.7 | 5 | U | |
| Nickel | 2 | 0.6 | 2 | U | |
| Potassium | 200 | 18 | 200 | U | |
| Selenium | 2 | 1.1 | 2 | U | |
| Silver | 2 | 0.2 | 2 | U | |
| Sodium | 146.7 | 14 | 200 | J | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | -0.741 | 0.6 | 5 | J | |
| Zinc | 4 | 2 | 4 | U | |

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Run ID: ICPMS07_470915
Instrument: ICPMS07
Method: SW6020A

| ICB | Date: 01-Jul-2024 10:57 | | Seq: 8110905 | ICB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Barium | 5 | 1.9 | 5 | U | |
| Calcium | 500 | 34 | 500 | U | |
| Iron | 200 | 12 | 200 | U | |
| Sodium | -31.61 | 14 | 200 | J | |

| CCB1 | Date: 01-Jul-2024 11:28 | | Seq: 8111147 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Barium | 4 | 1.9 | 4 | U | |
| Calcium | 500 | 34 | 500 | U | |
| Iron | 200 | 12 | 200 | U | |
| Sodium | -40.9 | 14 | 200 | J | |

| CCB2 | Date: 01-Jul-2024 11:58 | | Seq: 8111188 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Barium | 4 | 1.9 | 4 | U | |
| Calcium | 500 | 34 | 500 | U | |
| Iron | 200 | 12 | 200 | U | |
| Sodium | -46.66 | 14 | 200 | J | |

**ALS Houston, US** Date: 12-Jul-24

## Form 4 - ICP Interference Check Sample

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Run ID:ICPMS07_470725
Instrument:ICPMS07
Method:SW6020A

| ICSA | Date: 28-Jun-2024 11:25 | Seq: 8105712 | ICSA | Units: ug/L |
|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | |
| Aluminum | 100000 | 106800 | 107 | |
| Antimony | | 0.113 | 0 | |
| Arsenic | | 0.38 | 0 | |
| Barium | | 0.555 | 0 | |
| Beryllium | | 0.031 | 0 | |
| Cadmium | | 0.702 | 0 | |
| Calcium | 100000 | 100100 | 100 | |
| Chromium | | 0.867 | 0 | |
| Cobalt | | 1.061 | 0 | |
| Copper | | 0.824 | 0 | |
| Iron | 100000 | 106100 | 106 | |
| Lead | | 0.933 | 0 | |
| Magnesium | 100000 | 106100 | 106 | |
| Manganese | | 1.915 | 0 | |
| Nickel | | 1.184 | 0 | |
| Potassium | 100000 | 105900 | 106 | |
| Selenium | | 0 | 0 | |
| Silver | | 0.021 | 0 | |
| Sodium | 100000 | 107400 | 107 | |
| Thallium | | 0.004 | 0 | |
| Vanadium | | -0.194 | 0 | |
| Zinc | | 3.084 | 0 | |

| ICSAB | Date: 28-Jun-2024 11:27 | Seq: 8105713 | ICSAB | Units: ug/L |
|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | |
| Aluminum | 100500 | 104700 | 104 | |
| Antimony | 100 | 105.3 | 105 | |
| Arsenic | 100 | 109.2 | 109 | |
| Barium | 100 | 106.7 | 107 | |
| Beryllium | 100 | 92.48 | 92.5 | |
| Cadmium | 100 | 105.3 | 105 | |
| Calcium | 110000 | 108200 | 98.3 | |
| Chromium | 100 | 104.2 | 104 | |
| Cobalt | 100 | 102.2 | 102 | |
| Copper | 100 | 100.4 | 100 | |
| Iron | 110000 | 113300 | 103 | |
| Lead | 100 | 108.1 | 108 | |
| Magnesium | 110000 | 113600 | 103 | |
| Manganese | 100 | 106 | 106 | |
| Nickel | 100 | 101.8 | 102 | |
| Potassium | 110000 | 114300 | 104 | |
| Selenium | 100 | 109.8 | 110 | |
| Silver | 100 | 103.7 | 104 | |
| Sodium | 110000 | 115000 | 105 | |
| Thallium | 100 | 93.56 | 93.6 | |
| Vanadium | 100 | 107.1 | 107 | |
| Zinc | 100 | 106.4 | 106 | |

**ALS Houston, US** Date: 12-Jul-24

## Form 4 - ICP Interference Check Sample

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Run ID: ICPMS07_470915
Instrument: ICPMS07
Method: SW6020A

| ICSA | Date: 01-Jul-2024 11:04 | Seq: 8110915 | ICSA | Units: ug/L |
|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | |
| Barium | | 0.445 | 0 | |
| Calcium | 100000 | 106700 | 107 | |
| Iron | 100000 | 103600 | 104 | |
| Sodium | 100000 | 108600 | 109 | |

| ICSAB | Date: 01-Jul-2024 11:06 | Seq: 8110916 | ICSAB | Units: ug/L |
|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | |
| Barium | 100 | 103 | 103 | |
| Calcium | 110000 | 114000 | 104 | |
| Iron | 110000 | 110800 | 101 | |
| Sodium | 110000 | 116700 | 106 | |

**ALS Houston, US**

Date: 12-Jul-24

## Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Date Analyzed: 01-Jul-2024 18:15
Date Extracted: 01-Jul-2024 09:30
Units: ug/L

Matrix Spike: HS24061313-01MS
Client Sample ID:

Analysis Method: SW7470A

| Analyte | Sample Result | MS Result | Spike Amount | % Rec | MSD Result | Spike Amount | % Rec | % Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.2000 | 4.630 | 5.000 | 92.6 | 4.440 | 5.000 | 88.8 | 82-119 | 4.19 | 20 |

**ALS Houston, US** Date: 12-Jul-24

## Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Date Analyzed: 28-Jun-2024 19:57
Date Extracted: 26-Jun-2024 13:00
Units: ug/L

Matrix Spike: HS24061196-10MS
Client Sample ID: CO6_061824

Analysis Method: SW6020A

| Analyte | Sample Result | MS Result | Spike Amount | % Rec | MSD Result | Spike Amount | % Rec | % Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 13.21 | 104.7 | 100.0 | 91.5 | 109.6 | 100.0 | 96.4 | 84-117 | 4.58 | 20 |
| Antimony | 5.000 | 46.75 | 50.00 | 93.2 | 48.33 | 50.00 | 96.4 | 85-117 | 3.33 | 20 |
| Arsenic | 0.6330 | 46.48 | 50.00 | 91.7 | 47.32 | 50.00 | 93.4 | 84-116 | 1.80 | 20 |
| Barium | 641.5 | 668.4 | 50.00 | 53.8 | 667.2 | 50.00 | 51.4 | 86-114 | 0.179 | 20 |
| Beryllium | 2.000 | 41.85 | 50.00 | 83.6 | 42.83 | 50.00 | 85.6 | 83-121 | 2.33 | 20 |
| Cadmium | 2.000 | 45.57 | 50.00 | 90.9 | 45.97 | 50.00 | 91.7 | 87-115 | 0.870 | 20 |
| Calcium | 23670 | 27420 | 5000 | 75.0 | 28260 | 5000 | 91.9 | 87-118 | 3.02 | 20 |
| Chromium | 0.7100 | 44.54 | 50.00 | 87.7 | 46.51 | 50.00 | 91.6 | 85-116 | 4.33 | 20 |
| Cobalt | 1.239 | 45.18 | 50.00 | 87.9 | 47.00 | 50.00 | 91.5 | 86-115 | 3.96 | 20 |
| Copper | 5.000 | 46.54 | 50.00 | 91.6 | 48.68 | 50.00 | 95.9 | 85-118 | 4.51 | 20 |
| Iron | 31810 | 34790 | 5000 | 59.5 | 35890 | 5000 | 81.6 | 87-118 | 3.13 | 20 |
| Lead | 5.000 | 44.93 | 50.00 | 89.5 | 44.90 | 50.00 | 89.5 | 88-115 | 0.0534 | 20 |
| Magnesium | 8035 | 12180 | 5000 | 82.9 | 12660 | 5000 | 92.5 | 83-118 | 3.86 | 20 |
| Manganese | 508.6 | 527.0 | 50.00 | 36.8 | 543.4 | 50.00 | 69.6 | 87-115 | 3.07 | 20 |
| Nickel | 2.044 | 46.09 | 50.00 | 88.1 | 48.18 | 50.00 | 92.3 | 85-117 | 4.44 | 20 |
| Potassium | 2622 | 7074 | 5000 | 89.0 | 7325 | 5000 | 94.1 | 87-115 | 3.50 | 20 |
| Selenium | 5.000 | 45.54 | 50.00 | 90.6 | 47.14 | 50.00 | 93.8 | 80-120 | 3.45 | 20 |
| Silver | 5.000 | 44.96 | 50.00 | 89.9 | 44.93 | 50.00 | 89.8 | 85-116 | 0.0667 | 20 |
| Sodium | 138300 | 136200 | 5000 | -42.3 | 141900 | 5000 | 71.2 | 85-117 | 4.08 | 20 |
| Thallium | 2.000 | 40.21 | 50.00 | 80.3 | 40.49 | 50.00 | 80.9 | 82-116 | 0.694 | 20 |
| Vanadium | 5.000 | 44.50 | 50.00 | 89.9 | 45.84 | 50.00 | 92.6 | 86-115 | 2.98 | 20 |
| Zinc | 15.08 | 57.82 | 50.00 | 85.5 | 58.96 | 50.00 | 87.8 | 83-119 | 1.95 | 20 |

**ALS Houston, US** Date: 12-Jul-24

## Form 5B - Post Digest Sample Recovery

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Date Analyzed: 28-Jun-2024 20:00
Date Extracted: 26-Jun-2024 13:00
Units: ug/L

Lab Sample ID: HS24061196-10PDS
Client Sample ID: CO6_061824
Analysis Method: SW6020A

| Analyte | Sample Result | PDS Result | Spike Amount | % Rec | % Rec Limits |
|---|---|---|---|---|---|
| Aluminum | 13.21 | 102.9 | 100 | 90 | 80-120 |
| Antimony | 0 | 91.8 | 100 | 92 | 80-120 |
| Arsenic | 0.633 | 93 | 100 | 92 | 80-120 |
| Barium | 641.5 | 701.7 | 100 | 60 | 80-120 |
| Beryllium | 0 | 84.28 | 100 | 84 | 80-120 |
| Cadmium | 0 | 90.34 | 100 | 90 | 80-120 |
| Calcium | 23670 | 31700 | 10000 | 80 | 80-120 |
| Chromium | 0.71 | 89.9 | 100 | 89 | 80-120 |
| Cobalt | 1.239 | 91.92 | 100 | 91 | 80-120 |
| Copper | 0 | 89.52 | 100 | 89 | 80-120 |
| Lead | 0 | 89.67 | 100 | 90 | 80-120 |
| Magnesium | 8035 | 16900 | 10000 | 89 | 80-120 |
| Manganese | 508.6 | 577.1 | 100 | 69 | 80-120 |
| Nickel | 2.044 | 92.26 | 100 | 90 | 80-120 |
| Potassium | 2622 | 11800 | 10000 | 92 | 80-120 |
| Selenium | 0 | 92.38 | 100 | 92 | 80-120 |
| Silver | 0 | 92.55 | 100 | 93 | 80-120 |
| Sodium | 138300 | 141900 | 10000 | 35 | 80-120 |
| Thallium | 0 | 92.36 | 100 | 92 | 80-120 |
| Vanadium | 0 | 90.37 | 100 | 91 | 80-120 |
| Zinc | 15.08 | 101.8 | 100 | 87 | 80-120 |

**ALS Houston, US** Date: 12-Jul-24

## Form 5B - Post Digest Sample Recovery

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Date Analyzed: 01-Jul-2024 11:36
Date Extracted: 26-Jun-2024 13:00
Units: ug/L

Lab Sample ID: HS24061196-10PDS
Client Sample ID: CO6_061824
Analysis Method: SW6020A

| Analyte | Sample Result | PDS Result | Spike Amount | % Rec | % Rec Limits |
|---|---|---|---|---|---|
| Iron | 32060 | 131800 | 100000 | 100 | 80-120 |

**ALS Houston, US** Date: 12-Jul-24

**Form 7 - Laboratory Control Sample**

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Date Analyzed: 01-Jul-2024 17:39
Date Extracted: 01-Jul-2024 09:30
Units: ug/L

Lab Sample ID: LCS-214374 Analysis Method: SW7470A

| Analyte | Spike Amount | LCS Result | % Rec | % Rec Limits |
|---|---|---|---|---|
| Mercury | 5 | 4.6 | 92 | 82-119 |

**ALS Houston, US**

Date: 12-Jul-24

**Form 7 - Laboratory Control Sample**

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Date Analyzed: 28-Jun-2024 19:47
Date Extracted: 26-Jun-2024 13:00
Units: ug/L

Lab Sample ID: LCS-214140
Analysis Method: SW6020A

| Analyte | Spike Amount | LCS Result | % Rec | % Rec Limits |
|---|---|---|---|---|
| Aluminum | 100 | 105.6 | 106 | 84-117 |
| Antimony | 50 | 49.6 | 99 | 85-117 |
| Arsenic | 50 | 47.77 | 96 | 84-116 |
| Barium | 50 | 46.54 | 93 | 86-114 |
| Beryllium | 50 | 46.56 | 93 | 83-121 |
| Cadmium | 50 | 46.92 | 94 | 87-115 |
| Calcium | 5000 | 4991 | 100 | 87-118 |
| Chromium | 50 | 47.45 | 95 | 85-116 |
| Cobalt | 50 | 47.58 | 95 | 86-115 |
| Copper | 50 | 47.9 | 96 | 85-118 |
| Iron | 5000 | 4866 | 97 | 87-118 |
| Lead | 50 | 45.89 | 92 | 88-115 |
| Magnesium | 5000 | 4930 | 99 | 83-118 |
| Manganese | 50 | 48.27 | 97 | 87-115 |
| Nickel | 50 | 48.13 | 96 | 85-117 |
| Potassium | 5000 | 4876 | 98 | 87-115 |
| Selenium | 50 | 48.2 | 96 | 80-120 |
| Silver | 50 | 47.91 | 96 | 85-116 |
| Sodium | 5000 | 4861 | 97 | 85-117 |
| Thallium | 50 | 42.03 | 84 | 82-116 |
| Vanadium | 50 | 47.02 | 94 | 86-115 |
| Zinc | 50 | 47.91 | 96 | 83-119 |

**ALS Houston, US** Date: 12-Jul-24

## Form 8 - ICP Serial Dilutions

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Date Analyzed: 28-Jun-2024 19:52
Date Extracted: 26-Jun-2024 13:00
Units: ug/L

Lab Sample ID: HS24061196-10SD
Client Sample ID:CO6_061824

Analysis Method: SW6020A

| Analyte | Sample Result | C | SD Result | C | RPD | Q |
|---|---|---|---|---|---|---|
| Aluminum | 13.21 | | 0 | U | 0 | |
| Antimony | 0 | U | 0 | U | 0 | |
| Arsenic | 0.633 | J | 0 | U | 0 | |
| Barium | 641.5 | | 620.8 | | 3 | |
| Beryllium | 0 | U | 0 | U | 0 | |
| Cadmium | 0 | U | 0 | U | 0 | |
| Calcium | 23670 | | 23170 | | 2 | |
| Chromium | 0.71 | J | 0 | U | 0 | |
| Cobalt | 1.239 | J | 1.33 | J | 7 | |
| Copper | 0 | U | 0 | U | 0 | |
| Lead | 0 | U | 0 | U | 0 | |
| Magnesium | 8035 | | 7959 | | 1 | |
| Manganese | 508.6 | | 500.8 | | 2 | |
| Nickel | 2.044 | J | 0 | U | 0 | |
| Potassium | 2622 | | 2513 | | 4 | |
| Selenium | 0 | U | 0 | U | 0 | |
| Silver | 0 | U | 0 | U | 0 | |
| Sodium | 138300 | | 137700 | | 0 | |
| Thallium | 0 | U | 0 | U | 0 | |
| Vanadium | 0 | U | 0 | U | 0 | |
| Zinc | 15.08 | | 14.15 | J | 6 | |

**ALS Houston, US** Date: 12-Jul-24

## Form 8 - ICP Serial Dilutions

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP 18 24
**WorkOrder:** HS24061196

Date Analyzed: 01-Jul-2024 11:34
Date Extracted: 26-Jun-2024 13:00
Units: ug/L

Lab Sample ID: HS24061196-10SD
Client Sample ID:CO6_061824

Analysis Method: SW6020A

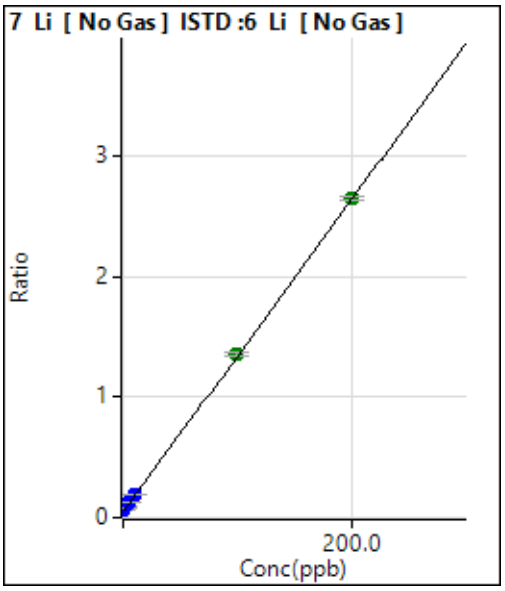
| Analyte | Sample Result | C | SD Result | C | RPD | Q |
|---|---|---|---|---|---|---|
| Iron | 32060 | | 32050 | | 0 | |

Calibration for 172_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062824A.b\
Analysis File: 062824A.batch.bin
DA Date-Time: 6/28/2024 10:08:19 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 165CALB.d | CAL BLK | 6/28/2024 6:26:19 PM |
| 2 | 166CALS.d | 2/10/200 | 6/28/2024 6:28:52 PM |
| 3 | 167CALS.d | 5/25/500 | 6/28/2024 6:31:25 PM |
| 4 | 168CALS.d | 10/50/100 | 6/28/2024 6:33:57 PM |
| 5 | 169CALS.d | 100/500/10K | 6/28/2024 6:36:29 PM |
| 6 | 170CALS.d | 200/1000/20K | 6/28/2024 6:39:02 PM |

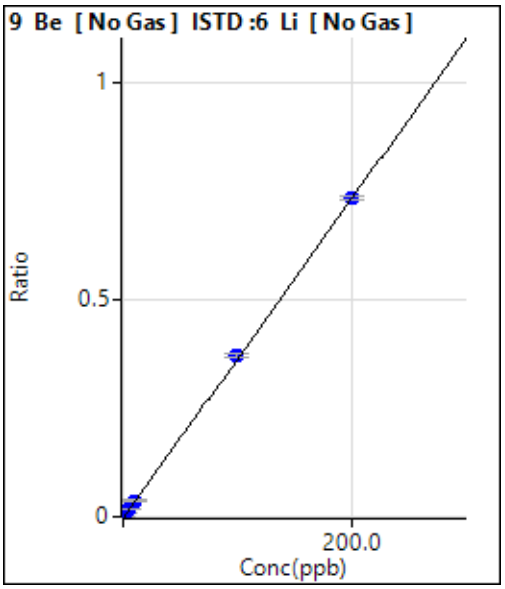
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 48562.36 | 0.0615 | P | 1.1 | |
| 2 | ☐ | 2.000 | 2.046 | 68240.54 | 0.0880 | P | 0.9 | 2.3 |
| 3 | ☐ | 5.000 | 5.201 | 99702.13 | 0.1289 | P | 1.0 | 4.0 |
| 4 | ☐ | 10.000 | 10.292 | 147790.64 | 0.1949 | P | 1.4 | 2.9 |
| 5 | ☐ | 100.000 | 100.357 | 956336.86 | 1.3622 | A | 2.3 | 0.4 |
| 6 | ☐ | 200.000 | 199.802 | 1808944.30 | 2.6511 | A | 1.1 | -0.1 |

y = 0.0130 * x + 0.0615
R = 1.0000
DL = 0.1599 ppb
BEC = 4.745 ppb

Weight: <None>
Min Conc: <None>

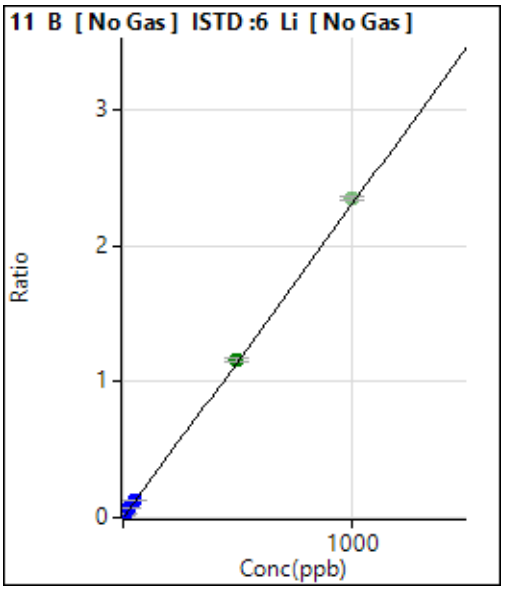



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 46.67 | 0.0001 | P | 37.7 | |
| 2 | ☐ | 2.000 | 2.024 | 5809.56 | 0.0075 | P | 4.2 | 1.2 |
| 3 | ☐ | 5.000 | 5.115 | 14579.18 | 0.0188 | P | 1.9 | 2.3 |
| 4 | ☐ | 10.000 | 10.135 | 28274.79 | 0.0373 | P | 3.3 | 1.3 |
| 5 | ☐ | 100.000 | 100.968 | 260427.17 | 0.3710 | P | 3.1 | 1.0 |
| 6 | ☐ | 200.000 | 199.506 | 500113.42 | 0.7330 | P | 0.8 | -0.2 |

y = 0.0037 * x + 5.9113E-005
R = 1.0000
DL = 0.0182 ppb
BEC = 0.01609 ppb

Weight: <None>
Min Conc: <None>

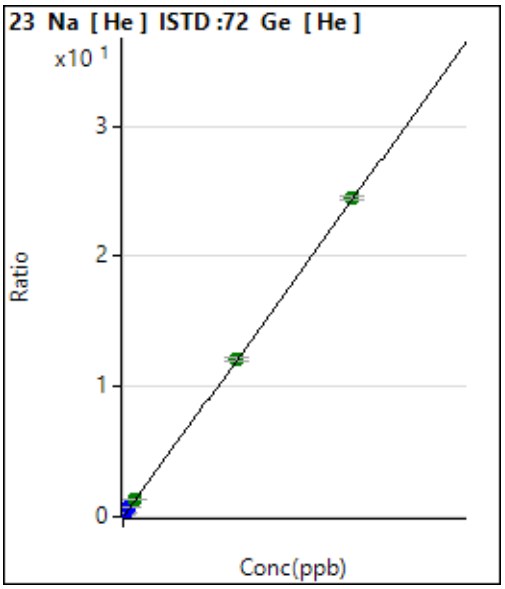
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7922.26 | 0.0100 | P | 3.9 | |
| 2 | ☐ | 10.000 | 10.121 | 25820.80 | 0.0333 | P | 4.0 | 1.2 |
| 3 | ☐ | 25.000 | 24.965 | 52173.58 | 0.0675 | P | 1.9 | -0.1 |
| 4 | ☐ | 50.000 | 50.401 | 95519.95 | 0.1260 | P | 1.0 | 0.8 |
| 5 | ☐ | 500.000 | 499.959 | 814385.20 | 1.1600 | A | 2.2 | 0.0 |
| 6 | ☑ | 1000.000 | | 1601392.89 | 2.3470 | A | 0.6 | |

y = 0.0023 * x + 0.0100
R = 1.0000
DL = 0.5068 ppb
BEC = 4.362 ppb

Weight: <None>
Min Conc: <None>

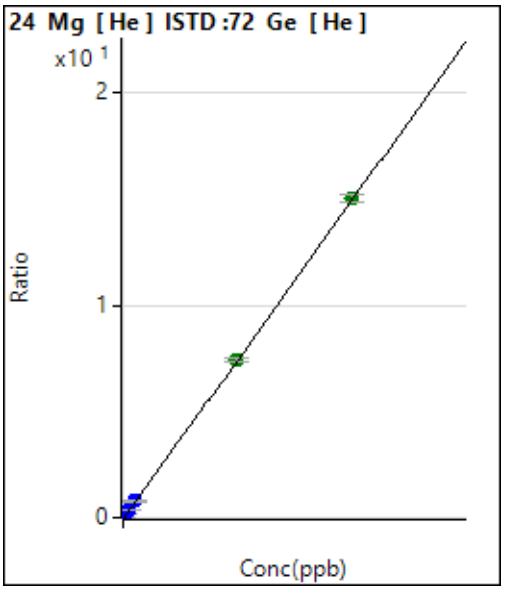



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 86476.89 | 0.0950 | P | 0.9 | |
| 2 | ☐ | 200.000 | 207.191 | 310252.24 | 0.3471 | P | 1.1 | 3.6 |
| 3 | ☐ | 500.000 | 522.648 | 651517.72 | 0.7308 | P | 0.8 | 4.5 |
| 4 | ☐ | 1000.000 | 1030.735 | 1196257.53 | 1.3488 | A | 1.3 | 3.1 |
| 5 | ☐ | 10000.00 | 9869.063 | 10219544.43 | 12.0996 | A | 1.9 | -1.3 |
| 6 | ☐ | 20000.00 | 20063.29 | 20275589.70 | 24.4996 | A | 1.8 | 0.3 |

y = 0.0012 * x + 0.0950
R = 1.0000
DL = 2.078 ppb
BEC = 78.13 ppb

Weight: <None>
Min Conc: <None>

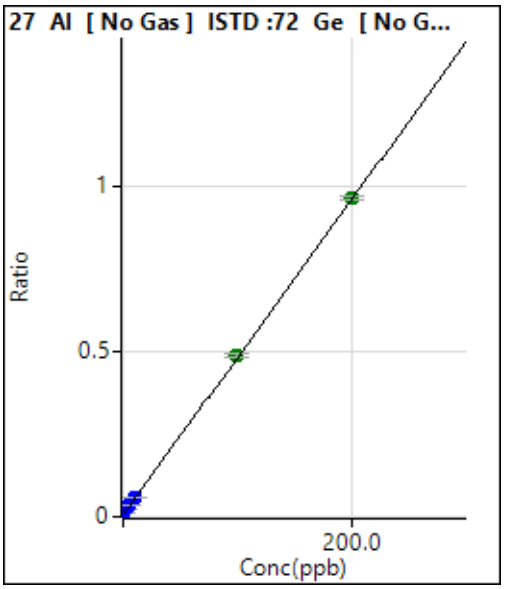
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1970.17 | 0.0022 | P | 7.1 | |
| 2 | ☐ | 200.000 | 205.278 | 139572.12 | 0.1561 | P | 1.7 | 2.6 |
| 3 | ☐ | 500.000 | 518.172 | 348425.87 | 0.3908 | P | 2.3 | 3.6 |
| 4 | ☐ | 1000.000 | 1026.864 | 685006.73 | 0.7723 | P | 1.2 | 2.7 |
| 5 | ☐ | 10000.00 | 9891.425 | 6267945.53 | 7.4209 | A | 2.2 | -1.1 |
| 6 | ☐ | 20000.00 | 20052.43 | 12448558.56 | 15.0418 | A | 1.9 | 0.3 |

y = 7.5002E-004 * x + 0.0022
R = 1.0000
DL = 0.6173 ppb
BEC = 2.888 ppb

Weight: <None>
Min Conc: <None>

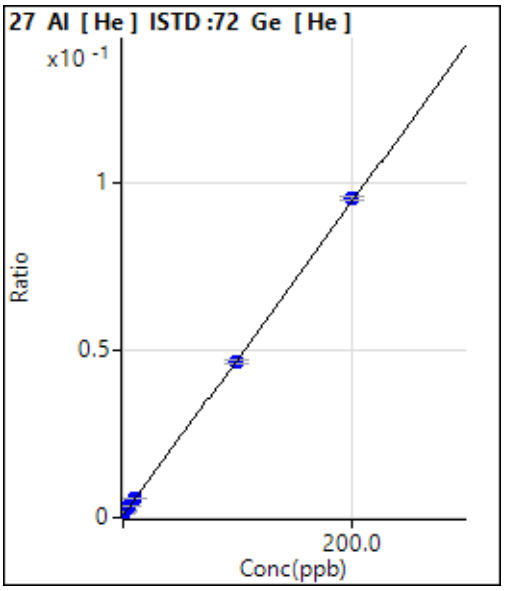



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 35474.87 | 0.0111 | P | 6.7 | |
| 2 | ☐ | 2.000 | 2.083 | 66346.00 | 0.0210 | P | 2.1 | 4.2 |
| 3 | ☐ | 5.000 | 5.023 | 110225.07 | 0.0350 | P | 0.7 | 0.5 |
| 4 | ☐ | 10.000 | 10.235 | 185893.60 | 0.0599 | P | 1.3 | 2.4 |
| 5 | ☐ | 100.000 | 99.862 | 1423884.88 | 0.4871 | A | 2.3 | -0.1 |
| 6 | ☐ | 200.000 | 200.056 | 2738133.71 | 0.9647 | A | 0.7 | 0.0 |

y = 0.0048 * x + 0.0111
R = 1.0000
DL = 0.4677 ppb
BEC = 2.324 ppb

Weight: <None>
Min Conc: <None>

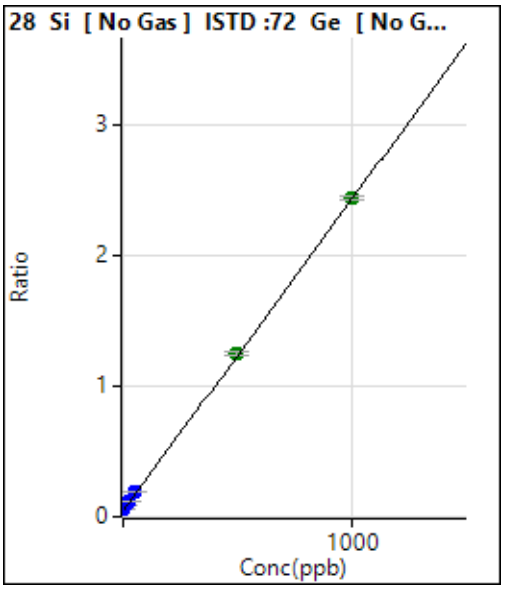
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1003.39 | 0.0011 | P | 8.1 | |
| 2 | ☐ | 2.000 | 2.099 | 1866.83 | 0.0021 | P | 15.7 | 4.9 |
| 3 | ☐ | 5.000 | 4.738 | 2963.69 | 0.0033 | P | 4.3 | -5.2 |
| 4 | ☐ | 10.000 | 10.147 | 5197.72 | 0.0059 | P | 3.1 | 1.5 |
| 5 | ☐ | 100.000 | 97.180 | 39415.58 | 0.0467 | P | 3.2 | -2.8 |
| 6 | ☐ | 200.000 | 201.408 | 79061.32 | 0.0955 | P | 0.9 | 0.7 |

y = 4.6885E-004 * x + 0.0011
R = 0.9999
DL = 0.5721 ppb
BEC = 2.352 ppb

Weight: <None>
Min Conc: <None>

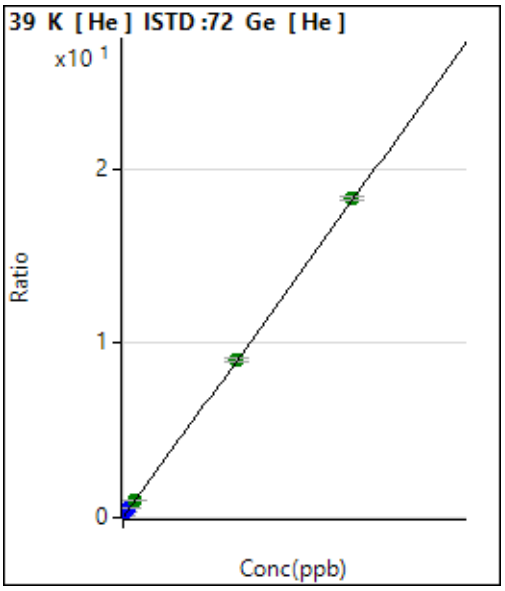



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 184259.15 | 0.0575 | P | 1.7 | |
| 2 | ☐ | 10.000 | 10.400 | 259909.01 | 0.0823 | P | 1.6 | 4.0 |
| 3 | ☐ | 25.000 | 26.716 | 381347.95 | 0.1212 | P | 0.3 | 6.9 |
| 4 | ☐ | 50.000 | 53.510 | 574378.35 | 0.1850 | P | 0.7 | 7.0 |
| 5 | ☐ | 500.000 | 499.927 | 3648709.84 | 1.2482 | A | 1.9 | 0.0 |
| 6 | ☐ | 1000.000 | 999.814 | 6921646.57 | 2.4388 | A | 0.6 | 0.0 |

y = 0.0024 * x + 0.0575
R = 1.0000
DL = 1.249 ppb
BEC = 24.16 ppb

Weight: <None>
Min Conc: <None>

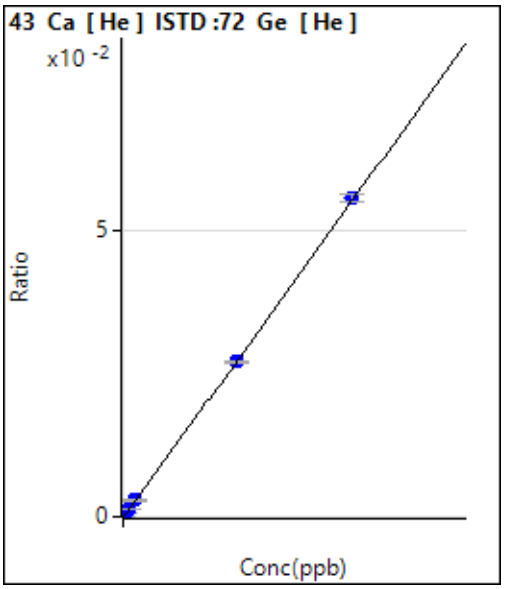
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 95326.84 | 0.1048 | P | 0.9 | |
| 2 | ☐ | 200.000 | 205.310 | 260000.73 | 0.2908 | P | 0.6 | 2.7 |
| 3 | ☐ | 500.000 | 514.051 | 508755.27 | 0.5707 | P | 1.0 | 2.8 |
| 4 | ☐ | 1000.000 | 1025.324 | 917141.05 | 1.0340 | A | 0.9 | 2.5 |
| 5 | ☐ | 10000.00 | 9837.255 | 7619024.88 | 9.0204 | A | 2.3 | -1.6 |
| 6 | ☐ | 20000.00 | 20079.70 | 15147611.02 | 18.3032 | A | 1.1 | 0.4 |

y = 9.0631E-004 * x + 0.1048
R = 1.0000
DL = 3.057 ppb
BEC = 115.6 ppb

Weight: <None>
Min Conc: <None>

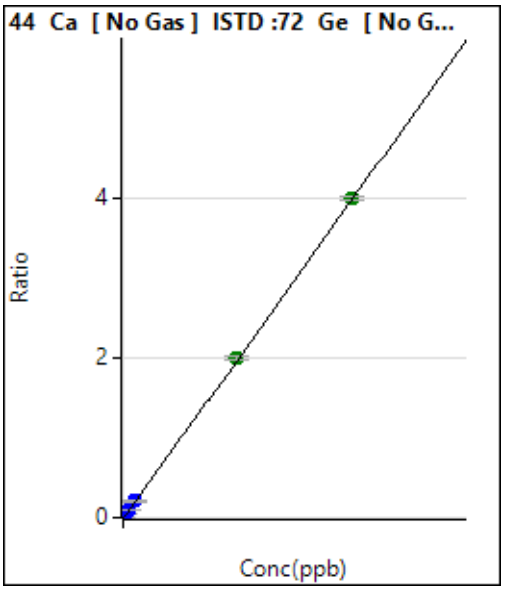



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 46.67 | 0.0001 | P | 32.0 | |
| 2 | ☐ | 200.000 | 208.883 | 563.35 | 0.0006 | P | 5.6 | 4.4 |
| 3 | ☐ | 500.000 | 493.005 | 1263.41 | 0.0014 | P | 11.9 | -1.4 |
| 4 | ☐ | 1000.000 | 1054.272 | 2636.96 | 0.0030 | P | 9.8 | 5.4 |
| 5 | ☐ | 10000.00 | 9749.863 | 22872.45 | 0.0271 | P | 2.0 | -2.5 |
| 6 | ☐ | 20000.00 | 20122.44 | 46196.91 | 0.0558 | P | 2.3 | 0.6 |

y = 2.7716E-006 * x + 5.1206E-005
R = 0.9999
DL = 17.75 ppb
BEC = 18.48 ppb

Weight: <None>
Min Conc: <None>

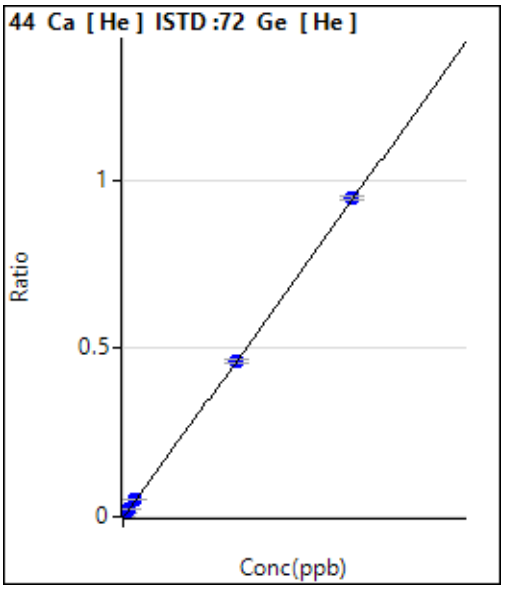
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 14494.46 | 0.0045 | P | 4.3 | |
| 2 | ☐ | 200.000 | 200.337 | 140270.25 | 0.0444 | P | 2.4 | 0.2 |
| 3 | ☐ | 500.000 | 507.777 | 332481.09 | 0.1056 | P | 0.6 | 1.6 |
| 4 | ☐ | 1000.000 | 1006.655 | 636451.71 | 0.2050 | P | 2.2 | 0.7 |
| 5 | ☐ | 10000.00 | 9964.434 | 5813409.08 | 1.9888 | A | 2.3 | -0.4 |
| 6 | ☐ | 20000.00 | 20017.25 | 11326121.50 | 3.9906 | A | 0.8 | 0.1 |

y = 1.9913E-004 * x + 0.0045
R = 1.0000
DL = 2.901 ppb
BEC = 22.73 ppb

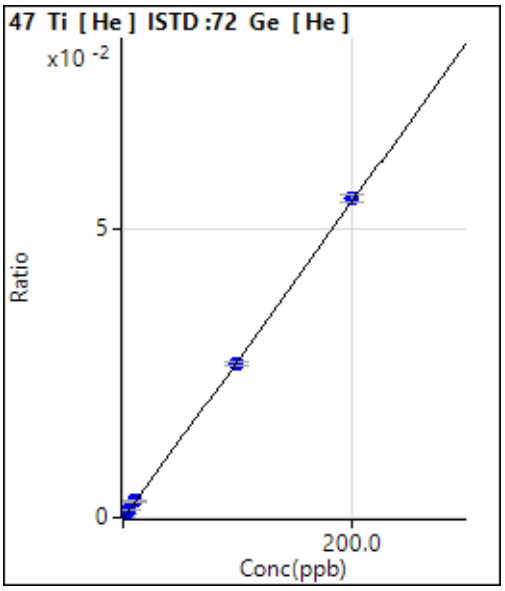
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 540.02 | 0.0006 | P | 8.4 | |
| 2 | ☐ | 200.000 | 208.198 | 9313.30 | 0.0104 | P | 4.7 | 4.1 |
| 3 | ☐ | 500.000 | 518.641 | 22344.87 | 0.0251 | P | 1.0 | 3.7 |
| 4 | ☐ | 1000.000 | 1037.980 | 43962.90 | 0.0496 | P | 1.1 | 3.8 |
| 5 | ☐ | 10000.00 | 9841.519 | 392702.03 | 0.4649 | P | 2.5 | -1.6 |
| 6 | ☐ | 20000.00 | 20076.79 | 784428.27 | 0.9478 | P | 1.6 | 0.4 |

y = 4.7181E-005 * x + 5.9318E-004
R = 1.0000
DL = 3.165 ppb
BEC = 12.57 ppb

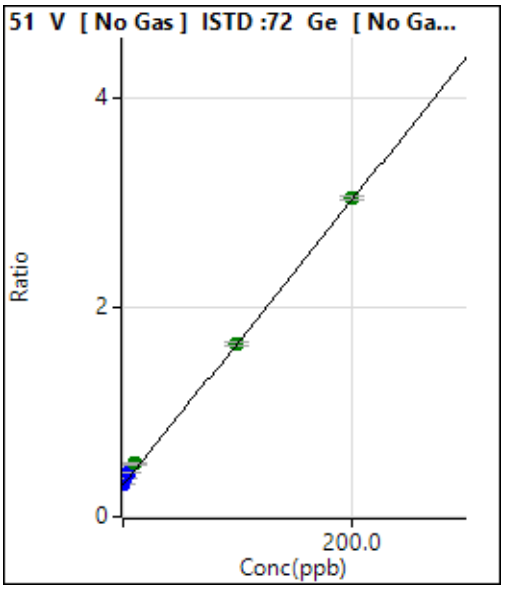
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 20.00 | 0.0000 | P | 131.8 | |
| 2 | ☐ | 2.000 | 2.028 | 516.69 | 0.0006 | P | 22.3 | 1.4 |
| 3 | ☐ | 5.000 | 5.244 | 1300.08 | 0.0015 | P | 3.2 | 4.9 |
| 4 | ☐ | 10.000 | 10.510 | 2573.61 | 0.0029 | P | 5.5 | 5.1 |
| 5 | ☐ | 100.000 | 97.093 | 22481.76 | 0.0266 | P | 1.9 | -2.9 |
| 6 | ☐ | 200.000 | 201.422 | 45681.99 | 0.0552 | P | 2.2 | 0.7 |

y = 2.7394E-004 * x + 2.1792E-005
R = 0.9998
DL = 0.3144 ppb
BEC = 0.07955 ppb

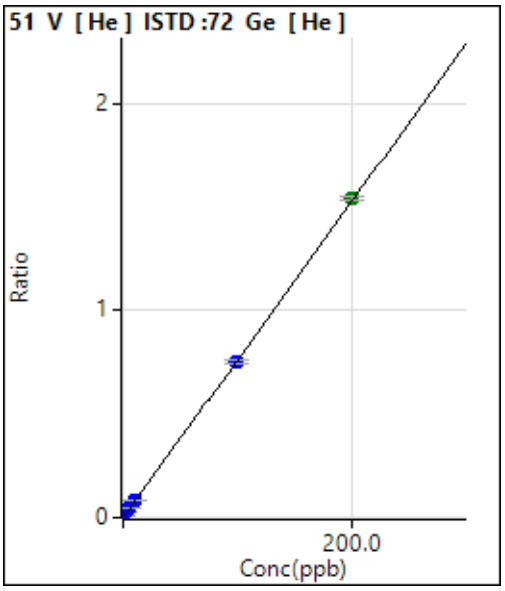
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1018079.73 | 0.3179 | P | 1.4 | |
| 2 | ☐ | 2.000 | 3.778 | 1166138.53 | 0.3693 | P | 2.1 | 88.9 |
| 3 | ☐ | 5.000 | 7.773 | 1333491.52 | 0.4237 | P | 0.4 | 55.5 |
| 4 | ☐ | 10.000 | 13.855 | 1572670.43 | 0.5065 | A | 0.7 | 38.5 |
| 5 | ☐ | 100.000 | 98.242 | 4838831.74 | 1.6554 | A | 2.6 | -1.8 |
| 6 | ☐ | 200.000 | 200.599 | 8653737.82 | 3.0489 | A | 1.3 | 0.3 |

y = 0.0136 * x + 0.3179
R = 0.9998
DL = 0.9588 ppb
BEC = 23.35 ppb

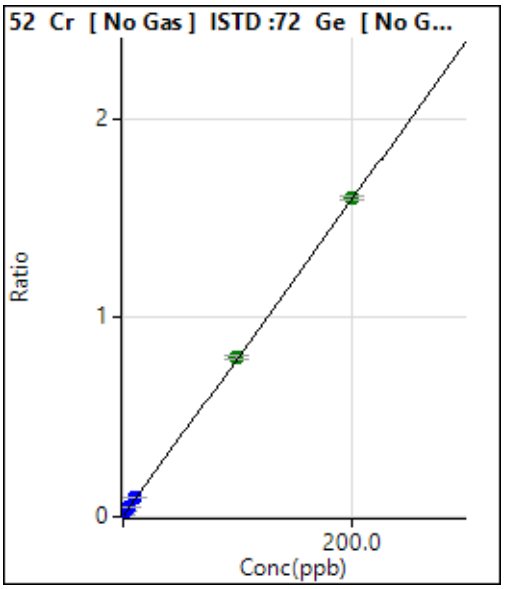
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7188.57 | 0.0079 | P | 3.0 | |
| 2 | ☐ | 2.000 | 2.105 | 21412.09 | 0.0240 | P | 1.9 | 5.2 |
| 3 | ☐ | 5.000 | 5.176 | 42231.83 | 0.0474 | P | 1.2 | 3.5 |
| 4 | ☐ | 10.000 | 10.380 | 77209.09 | 0.0871 | P | 1.9 | 3.8 |
| 5 | ☐ | 100.000 | 97.703 | 635979.16 | 0.7530 | P | 1.6 | -2.3 |
| 6 | ☐ | 200.000 | 201.124 | 1275843.00 | 1.5416 | A | 1.3 | 0.6 |

y = 0.0076 * x + 0.0079
R = 0.9999
DL = 0.09368 ppb
BEC = 1.036 ppb

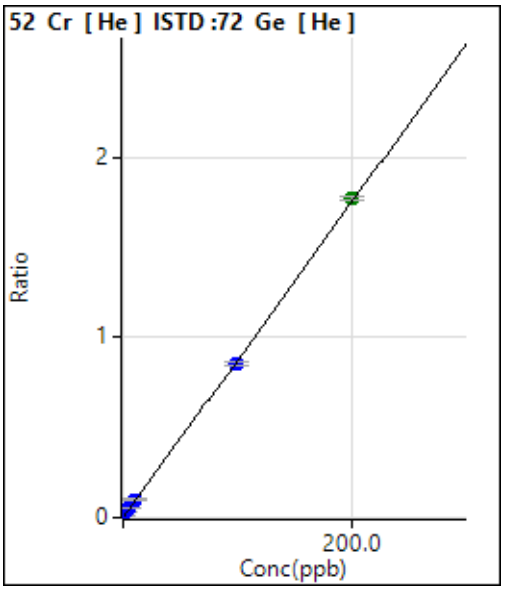
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 33200.11 | 0.0104 | P | 2.7 | |
| 2 | ☐ | 2.000 | 2.106 | 85613.60 | 0.0271 | P | 1.9 | 5.3 |
| 3 | ☐ | 5.000 | 5.218 | 163205.14 | 0.0519 | P | 0.8 | 4.4 |
| 4 | ☐ | 10.000 | 10.411 | 289233.68 | 0.0931 | P | 0.8 | 4.1 |
| 5 | ☐ | 100.000 | 99.596 | 2345265.69 | 0.8023 | A | 2.3 | -0.4 |
| 6 | ☐ | 200.000 | 200.175 | 4547211.81 | 1.6021 | A | 1.1 | 0.1 |

y = 0.0080 * x + 0.0104
R = 1.0000
DL = 0.107 ppb
BEC = 1.303 ppb

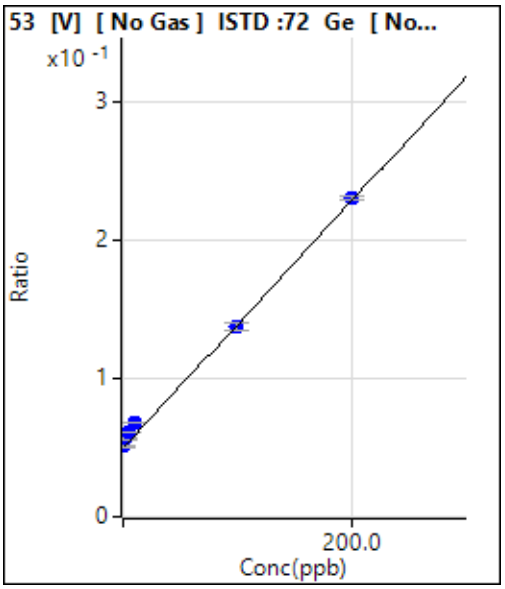
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 8606.19 | 0.0095 | P | 5.5 | |
| 2 | ☐ | 2.000 | 2.108 | 24969.48 | 0.0279 | P | 0.8 | 5.4 |
| 3 | ☐ | 5.000 | 5.221 | 49204.36 | 0.0552 | P | 1.2 | 4.4 |
| 4 | ☐ | 10.000 | 10.373 | 88964.69 | 0.1003 | P | 2.6 | 3.7 |
| 5 | ☐ | 100.000 | 96.923 | 725015.46 | 0.8584 | P | 2.3 | -3.1 |
| 6 | ☐ | 200.000 | 201.513 | 1468567.27 | 1.7745 | A | 1.2 | 0.8 |

y = 0.0088 * x + 0.0095
R = 0.9998
DL = 0.179 ppb
BEC = 1.08 ppb

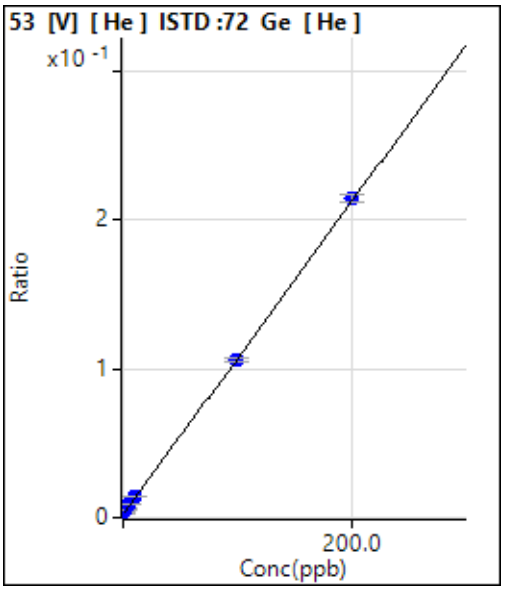
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 163672.05 | 0.0511 | P | 1.4 | |
| 2 | ☐ | 2.000 | 6.431 | 179535.20 | 0.0569 | P | 2.4 | 221.6 |
| 3 | ☐ | 5.000 | 11.260 | 192547.54 | 0.0612 | P | 0.9 | 125.2 |
| 4 | ☐ | 10.000 | 18.837 | 211016.24 | 0.0680 | P | 1.3 | 88.4 |
| 5 | ☐ | 100.000 | 96.639 | 402172.55 | 0.1376 | P | 3.5 | -3.4 |
| 6 | ☐ | 200.000 | 201.038 | 655717.18 | 0.2310 | P | 1.3 | 0.5 |

y = 8.9498E-004 * x + 0.0511
R = 0.9988
DL = 2.474 ppb
BEC = 57.1 ppb

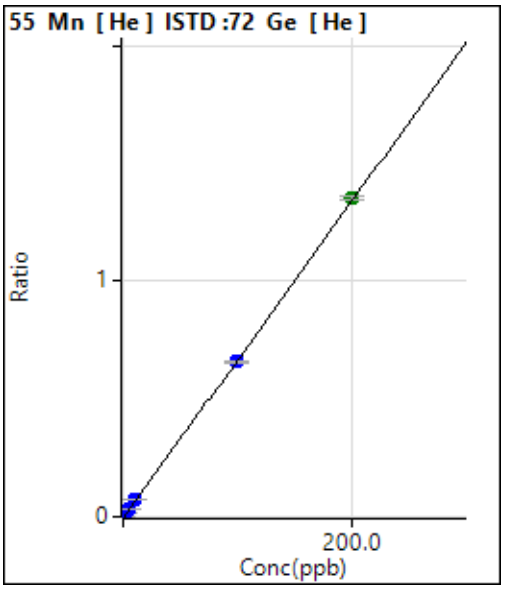
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2957.05 | 0.0032 | P | 3.6 | |
| 2 | ☐ | 2.000 | 2.381 | 5137.70 | 0.0057 | P | 3.5 | 19.1 |
| 3 | ☐ | 5.000 | 5.644 | 8175.86 | 0.0092 | P | 2.1 | 12.9 |
| 4 | ☐ | 10.000 | 10.433 | 12589.26 | 0.0142 | P | 2.2 | 4.3 |
| 5 | ☐ | 100.000 | 97.703 | 89316.86 | 0.1057 | P | 2.0 | -2.3 |
| 6 | ☐ | 200.000 | 201.107 | 177284.23 | 0.2142 | P | 2.1 | 0.6 |

y = 0.0010 * x + 0.0032
R = 0.9999
DL = 0.3304 ppb
BEC = 3.098 ppb

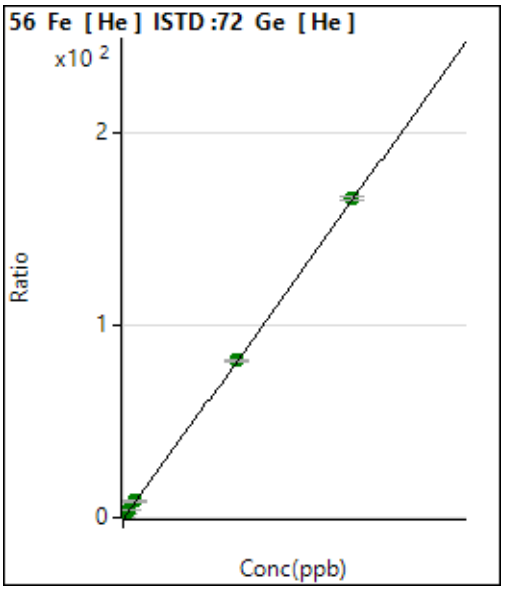
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 573.36 | 0.0006 | P | 19.3 | |
| 2 | ☐ | 2.000 | 2.015 | 12682.70 | 0.0142 | P | 2.3 | 0.8 |
| 3 | ☐ | 5.000 | 5.140 | 31392.63 | 0.0352 | P | 3.3 | 2.8 |
| 4 | ☐ | 10.000 | 10.327 | 62190.07 | 0.0701 | P | 0.7 | 3.3 |
| 5 | ☐ | 100.000 | 97.662 | 555570.75 | 0.6577 | P | 1.2 | -2.3 |
| 6 | ☐ | 200.000 | 201.149 | 1120604.20 | 1.3540 | A | 1.2 | 0.6 |

y = 0.0067 * x + 6.3008E-004
R = 0.9999
DL = 0.05416 ppb
BEC = 0.09364 ppb

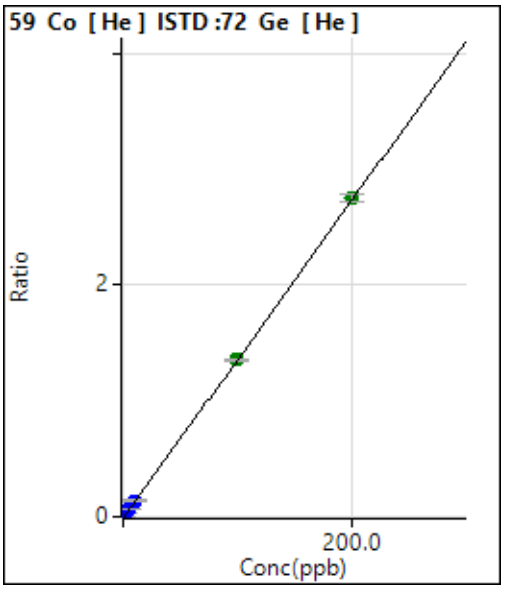
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 13917.24 | 0.0153 | P | 6.6 | |
| 2 | ☐ | 200.000 | 202.456 | 1513401.96 | 1.6928 | A | 1.4 | 1.2 |
| 3 | ☐ | 500.000 | 513.734 | 3808640.57 | 4.2720 | A | 2.1 | 2.7 |
| 4 | ☐ | 1000.000 | 1029.717 | 7580831.97 | 8.5474 | A | 1.7 | 3.0 |
| 5 | ☐ | 10000.00 | 9854.683 | 68980232.30 | 81.6696 | A | 1.8 | -1.5 |
| 6 | ☐ | 20000.00 | 20070.80 | 137644121.2 | 166.318 | A | 1.1 | 0.4 |

y = 0.0083 * x + 0.0153
R = 1.0000
DL = 0.3674 ppb
BEC = 1.846 ppb

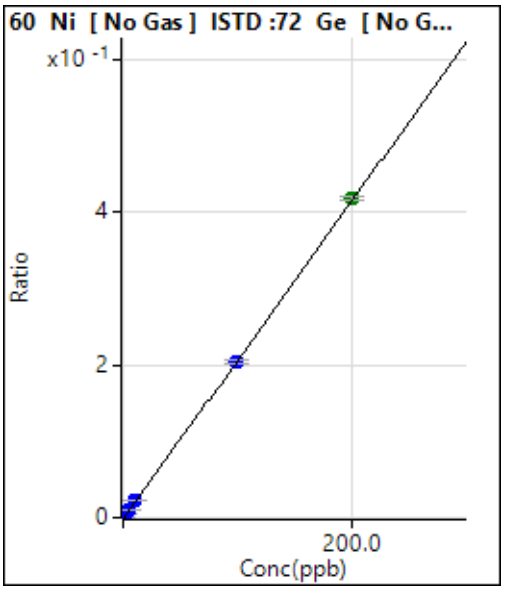
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 140.00 | 0.0002 | P | 1.0 | |
| 2 | ☐ | 2.000 | 2.058 | 25370.40 | 0.0284 | P | 2.7 | 2.9 |
| 3 | ☐ | 5.000 | 5.115 | 62675.71 | 0.0703 | P | 2.6 | 2.3 |
| 4 | ☐ | 10.000 | 10.214 | 124376.65 | 0.1402 | P | 1.2 | 2.1 |
| 5 | ☐ | 100.000 | 98.604 | 1142339.23 | 1.3525 | A | 1.9 | -1.4 |
| 6 | ☐ | 200.000 | 200.684 | 2277939.65 | 2.7525 | A | 1.8 | 0.3 |

y = 0.0137 * x + 1.5386E-004
R = 1.0000
DL = 0.000332 ppb
BEC = 0.01122 ppb

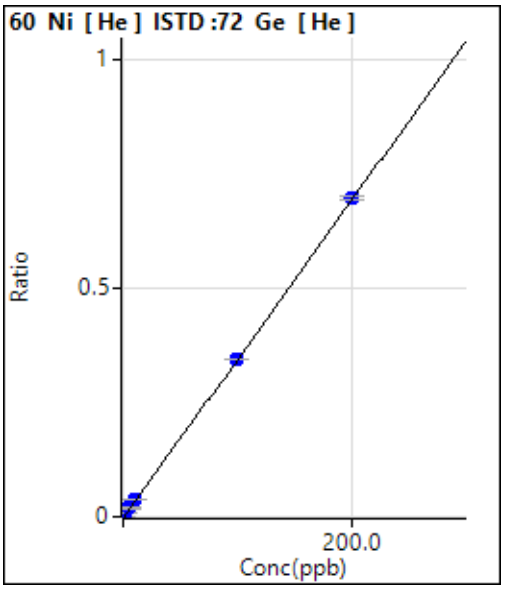
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 716.70 | 0.0002 | P | 18.9 | |
| 2 | ☐ | 2.000 | 2.082 | 14371.02 | 0.0046 | P | 2.0 | 4.1 |
| 3 | ☐ | 5.000 | 5.200 | 34720.64 | 0.0110 | P | 1.4 | 4.0 |
| 4 | ☐ | 10.000 | 10.342 | 67438.31 | 0.0217 | P | 1.3 | 3.4 |
| 5 | ☐ | 100.000 | 98.240 | 597502.93 | 0.2044 | P | 2.5 | -1.8 |
| 6 | ☐ | 200.000 | 200.857 | 1185512.66 | 0.4177 | A | 1.5 | 0.4 |

y = 0.0021 * x + 2.2409E-004
R = 0.9999
DL = 0.06123 ppb
BEC = 0.1078 ppb

Weight: <None>
Min Conc: <None>

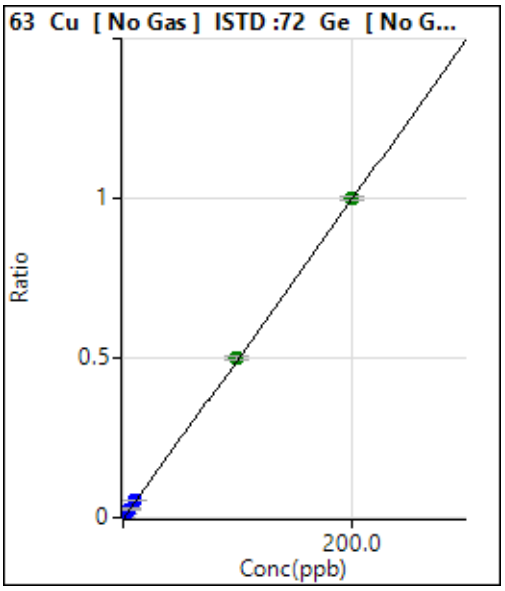



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 253.34 | 0.0003 | P | 18.5 | |
| 2 | ☐ | 2.000 | 2.070 | 6681.75 | 0.0075 | P | 3.3 | 3.5 |
| 3 | ☐ | 5.000 | 5.377 | 16907.25 | 0.0190 | P | 2.5 | 7.5 |
| 4 | ☐ | 10.000 | 10.447 | 32451.88 | 0.0366 | P | 1.2 | 4.5 |
| 5 | ☐ | 100.000 | 99.049 | 290973.23 | 0.3445 | P | 0.9 | -1.0 |
| 6 | ☐ | 200.000 | 200.443 | 576705.58 | 0.6969 | P | 1.5 | 0.2 |

y = 0.0035 * x + 2.7833E-004
R = 1.0000
DL = 0.04443 ppb
BEC = 0.08009 ppb

Weight: <None>
Min Conc: <None>

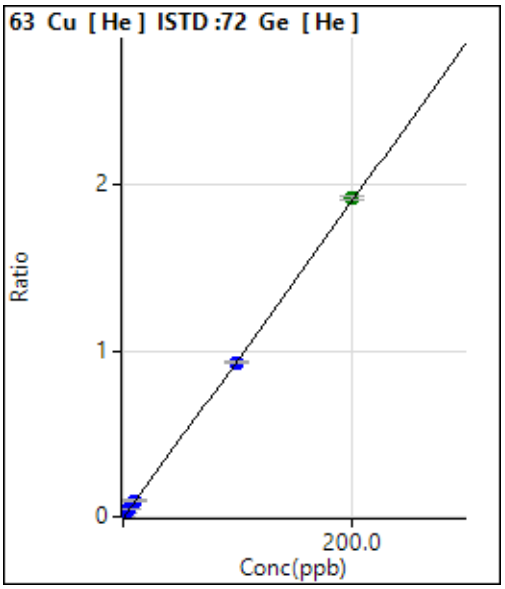
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1356.76 | 0.0004 | P | 5.2 | |
| 2 | ☐ | 2.000 | 2.132 | 35058.40 | 0.0111 | P | 1.4 | 6.6 |
| 3 | ☐ | 5.000 | 5.294 | 84773.26 | 0.0269 | P | 1.8 | 5.9 |
| 4 | ☐ | 10.000 | 10.551 | 165387.54 | 0.0533 | P | 1.5 | 5.5 |
| 5 | ☐ | 100.000 | 100.041 | 1465716.18 | 0.5014 | A | 2.4 | 0.0 |
| 6 | ☐ | 200.000 | 199.943 | 2843077.67 | 1.0017 | A | 0.7 | 0.0 |

y = 0.0050 * x + 4.2345E-004
R = 1.0000
DL = 0.01324 ppb
BEC = 0.08456 ppb

Weight: <None>
Min Conc: <None>

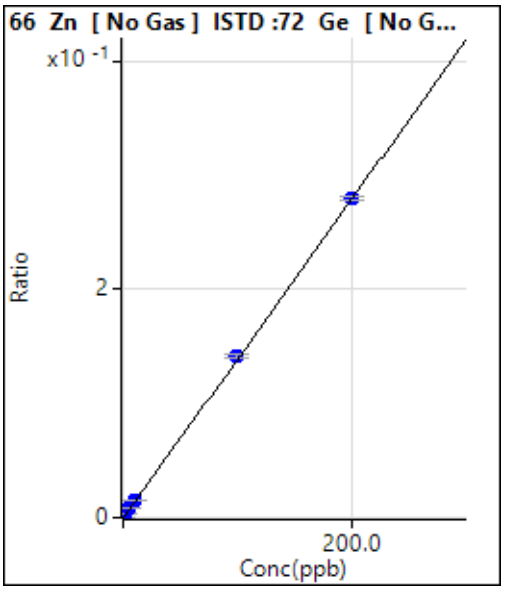



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 666.70 | 0.0007 | P | 3.7 | |
| 2 | ☐ | 2.000 | 1.979 | 17531.45 | 0.0196 | P | 2.9 | -1.0 |
| 3 | ☐ | 5.000 | 5.215 | 44993.69 | 0.0505 | P | 2.5 | 4.3 |
| 4 | ☐ | 10.000 | 10.215 | 87034.76 | 0.0981 | P | 1.4 | 2.1 |
| 5 | ☐ | 100.000 | 97.300 | 784298.66 | 0.9285 | P | 1.8 | -2.7 |
| 6 | ☐ | 200.000 | 201.334 | 1589430.23 | 1.9206 | A | 1.6 | 0.7 |

y = 0.0095 * x + 7.3251E-004
R = 0.9999
DL = 0.008422 ppb
BEC = 0.07682 ppb

Weight: <None>
Min Conc: <None>

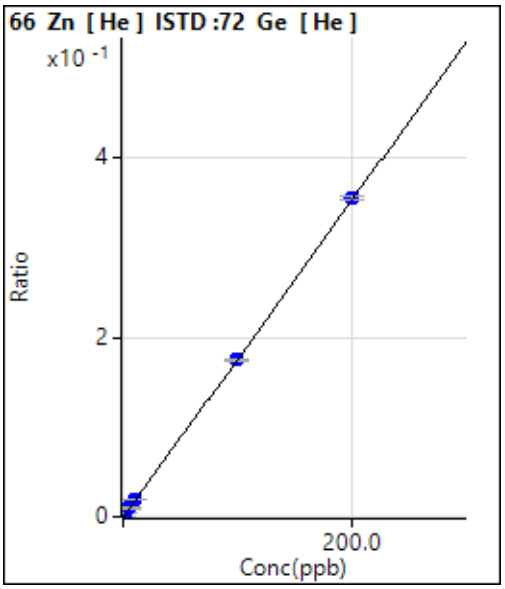
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2570.30 | 0.0008 | P | 8.7 | |
| 2 | ☐ | 2.000 | 2.044 | 11548.38 | 0.0037 | P | 3.8 | 2.2 |
| 3 | ☐ | 5.000 | 5.100 | 24939.64 | 0.0079 | P | 2.7 | 2.0 |
| 4 | ☐ | 10.000 | 10.247 | 46930.36 | 0.0151 | P | 1.7 | 2.5 |
| 5 | ☐ | 100.000 | 100.603 | 413049.12 | 0.1413 | P | 2.2 | 0.6 |
| 6 | ☐ | 200.000 | 199.683 | 793766.68 | 0.2797 | P | 0.7 | -0.2 |

y = 0.0014 * x + 8.0210E-004
R = 1.0000
DL = 0.1494 ppb
BEC = 0.5743 ppb

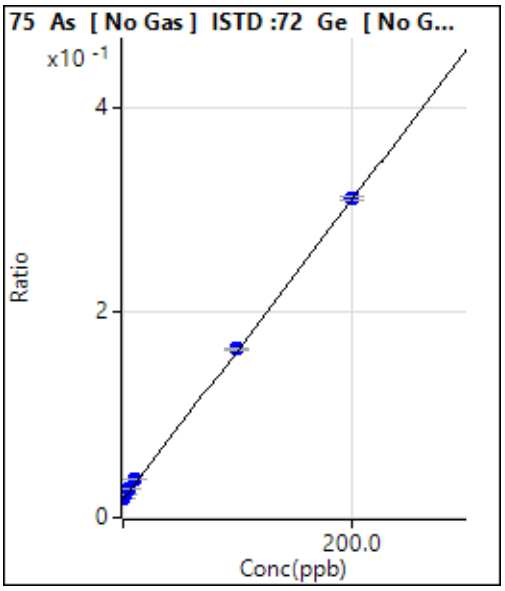
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 860.04 | 0.0009 | P | 6.9 | |
| 2 | ☐ | 2.000 | 2.186 | 4297.42 | 0.0048 | P | 3.8 | 9.3 |
| 3 | ☐ | 5.000 | 5.096 | 8873.06 | 0.0100 | P | 7.0 | 1.9 |
| 4 | ☐ | 10.000 | 10.494 | 17287.87 | 0.0195 | P | 3.0 | 4.9 |
| 5 | ☐ | 100.000 | 98.530 | 147869.38 | 0.1751 | P | 1.0 | -1.5 |
| 6 | ☐ | 200.000 | 200.706 | 294330.44 | 0.3556 | P | 0.7 | 0.4 |

y = 0.0018 * x + 9.4483E-004
R = 1.0000
DL = 0.1099 ppb
BEC = 0.5346 ppb

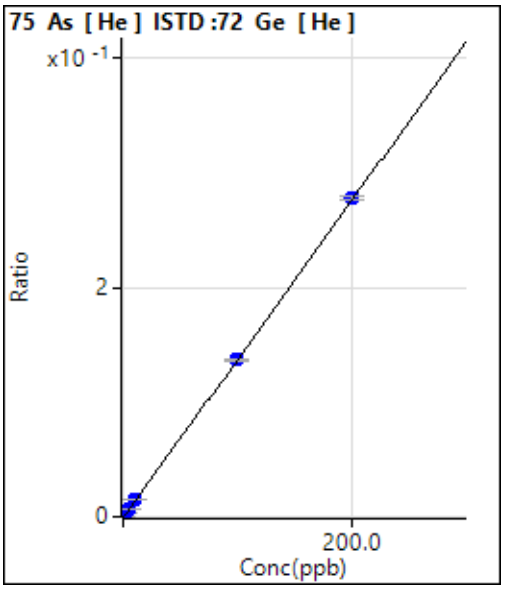
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 60708.39 | 0.0190 | P | 2.6 | |
| 2 | ☐ | 2.000 | 2.598 | 71828.87 | 0.0227 | P | 0.6 | 29.9 |
| 3 | ☐ | 5.000 | 6.410 | 89100.17 | 0.0283 | P | 2.8 | 28.2 |
| 4 | ☐ | 10.000 | 12.372 | 114911.74 | 0.0370 | P | 1.6 | 23.7 |
| 5 | ☐ | 100.000 | 99.405 | 479468.57 | 0.1640 | P | 1.3 | -0.6 |
| 6 | ☐ | 200.000 | 200.138 | 882747.18 | 0.3110 | P | 0.6 | 0.1 |

y = 0.0015 * x + 0.0190
R = 0.9999
DL = 1.024 ppb
BEC = 12.99 ppb

Weight: <None>
Min Conc: <None>

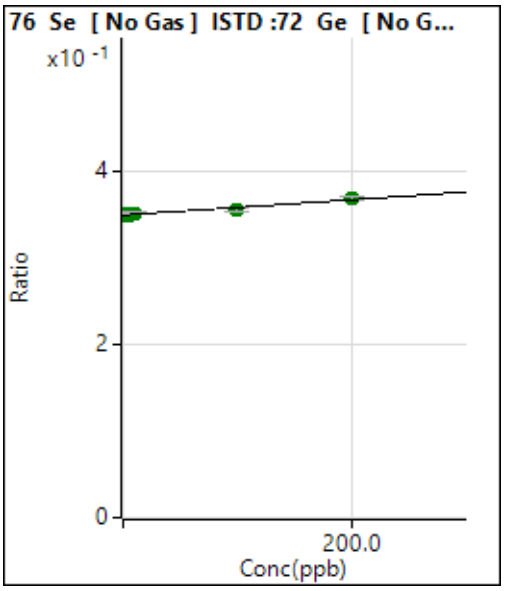



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 337.79 | 0.0004 | P | 8.6 | |
| 2 | ☐ | 2.000 | 2.000 | 2804.75 | 0.0031 | P | 1.0 | 0.0 |
| 3 | ☐ | 5.000 | 5.030 | 6532.70 | 0.0073 | P | 2.3 | 0.6 |
| 4 | ☐ | 10.000 | 10.255 | 12908.38 | 0.0146 | P | 3.4 | 2.6 |
| 5 | ☐ | 100.000 | 98.509 | 115384.20 | 0.1366 | P | 1.1 | -1.5 |
| 6 | ☐ | 200.000 | 200.732 | 230052.21 | 0.2780 | P | 1.8 | 0.4 |

y = 0.0014 * x + 3.7101E-004
R = 1.0000
DL = 0.06928 ppb
BEC = 0.2683 ppb

Weight: <None>
Min Conc: <None>

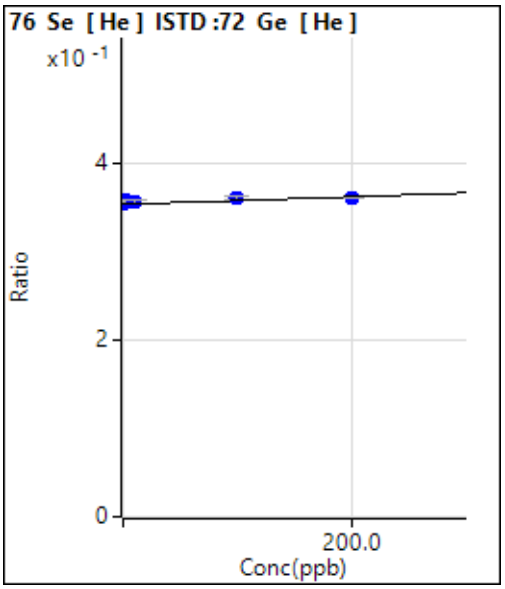
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1118509.59 | 0.3493 | A | 1.4 | |
| 2 | ☐ | 2.000 | 12.133 | 1106346.75 | 0.3503 | A | 0.8 | 506.6 |
| 3 | ☐ | 5.000 | 0.824 | 1099450.53 | 0.3493 | A | 0.7 | -83.5 |
| 4 | ☐ | 10.000 | 24.917 | 1091361.00 | 0.3515 | A | 0.3 | 149.2 |
| 5 | ☐ | 100.000 | 64.453 | 1037787.59 | 0.3550 | A | 0.8 | -35.5 |
| 6 | ☐ | 200.000 | 217.030 | 1046044.54 | 0.3686 | A | 1.1 | 8.5 |

y = 8.9069E-005 * x + 0.3493
R = 0.9726
DL = 167.3 ppb
BEC = 3921 ppb

Weight: <None>
Min Conc: <None>

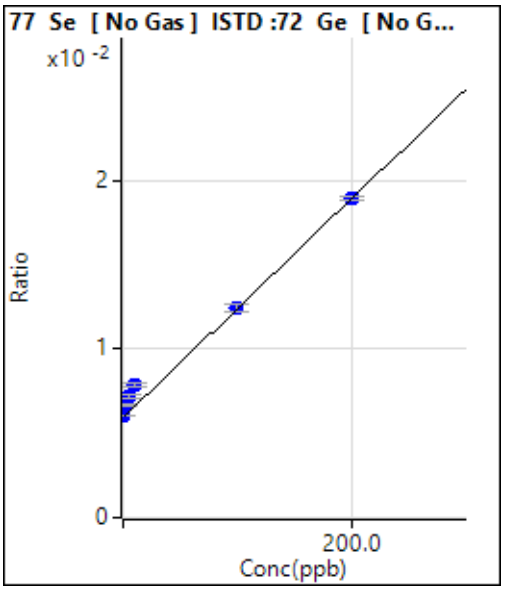



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 322418.73 | 0.3543 | P | 0.5 | |
| 2 | ☐ | 2.000 | 139.317 | 322219.10 | 0.3604 | P | 0.9 | 6865.9 |
| 3 | ☐ | 5.000 | 43.896 | 317604.81 | 0.3563 | P | 0.9 | 777.9 |
| 4 | ☐ | 10.000 | 68.077 | 316915.15 | 0.3573 | P | 0.9 | 580.8 |
| 5 | ☐ | 100.000 | 166.546 | 305469.74 | 0.3616 | P | 0.7 | 66.5 |
| 6 | ☐ | 200.000 | 161.478 | 299090.93 | 0.3614 | P | 0.2 | -19.3 |

y = 4.3755E-005 * x + 0.3543
R = 0.6919
DL = 127.2 ppb
BEC = 8098 ppb

Weight: <None>
Min Conc: <None>

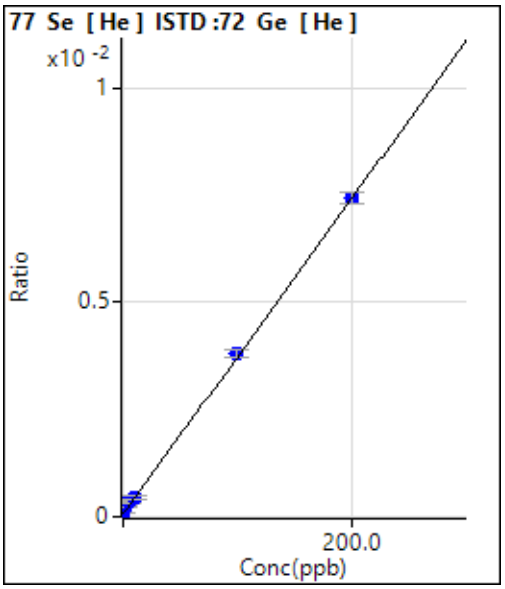
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 19317.30 | 0.0060 | P | 1.1 | |
| 2 | ☐ | 2.000 | 10.210 | 21140.06 | 0.0067 | P | 2.6 | 410.5 |
| 3 | ☐ | 5.000 | 17.731 | 22602.34 | 0.0072 | P | 1.9 | 254.6 |
| 4 | ☐ | 10.000 | 28.389 | 24442.31 | 0.0079 | P | 4.1 | 183.9 |
| 5 | ☐ | 100.000 | 99.362 | 36472.38 | 0.0125 | P | 3.9 | -0.6 |
| 6 | ☐ | 200.000 | 198.999 | 53752.78 | 0.0189 | P | 0.7 | -0.5 |

y = 6.4861E-005 * x + 0.0060
R = 0.9964
DL = 3.01 ppb
BEC = 92.99 ppb

Weight: <None>
Min Conc: <None>

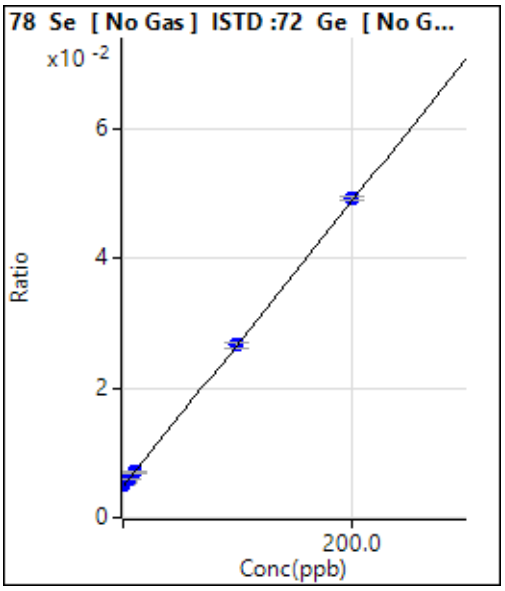



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 86.67 | 0.0001 | P | 24.7 | |
| 2 | ☐ | 2.000 | 3.797 | 210.00 | 0.0002 | P | 20.8 | 89.9 |
| 3 | ☐ | 5.000 | 6.663 | 303.34 | 0.0003 | P | 5.1 | 33.3 |
| 4 | ☐ | 10.000 | 9.176 | 383.35 | 0.0004 | P | 18.2 | -8.2 |
| 5 | ☐ | 100.000 | 100.943 | 3213.77 | 0.0038 | P | 4.5 | 0.9 |
| 6 | ☐ | 200.000 | 199.510 | 6148.15 | 0.0074 | P | 3.1 | -0.2 |

y = 3.6757E-005 * x + 9.5352E-005
R = 0.9999
DL = 1.92 ppb
BEC = 2.594 ppb

Weight: <None>
Min Conc: <None>

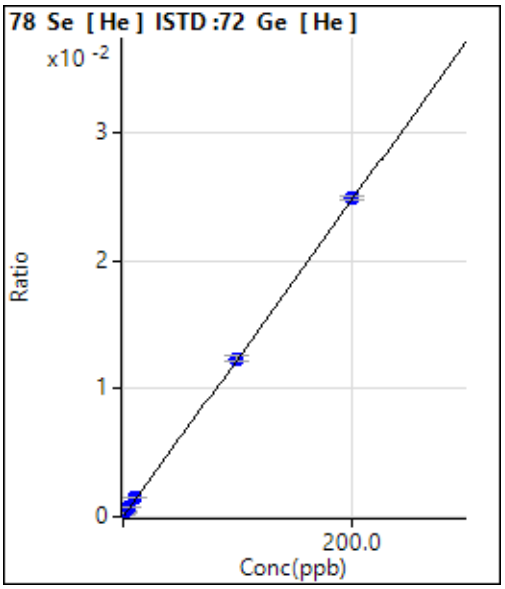
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 16203.21 | 0.0051 | P | 4.0 | |
| 2 | ☐ | 2.000 | 1.943 | 17327.91 | 0.0055 | P | 1.1 | -2.8 |
| 3 | ☐ | 5.000 | 4.075 | 18743.22 | 0.0060 | P | 2.7 | -18.5 |
| 4 | ☐ | 10.000 | 9.213 | 21994.62 | 0.0071 | P | 3.5 | -7.9 |
| 5 | ☐ | 100.000 | 97.880 | 77606.98 | 0.0266 | P | 3.2 | -2.1 |
| 6 | ☐ | 200.000 | 201.123 | 139684.29 | 0.0492 | P | 1.7 | 0.6 |

y = 2.1956E-004 * x + 0.0051
R = 0.9999
DL = 2.789 ppb
BEC = 23.05 ppb

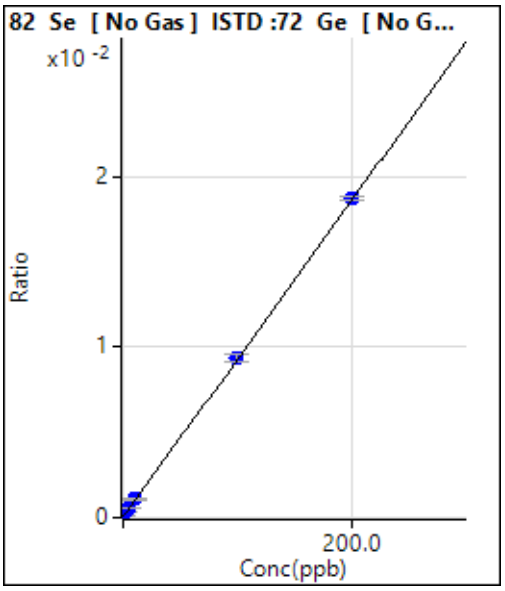
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 106.67 | 0.0001 | P | 19.6 | |
| 2 | ☐ | 2.000 | 2.100 | 337.34 | 0.0004 | P | 9.3 | 5.0 |
| 3 | ☐ | 5.000 | 4.946 | 650.68 | 0.0007 | P | 11.0 | -1.1 |
| 4 | ☐ | 10.000 | 10.974 | 1310.07 | 0.0015 | P | 2.5 | 9.7 |
| 5 | ☐ | 100.000 | 98.929 | 10450.69 | 0.0124 | P | 3.7 | -1.1 |
| 6 | ☐ | 200.000 | 200.487 | 20652.28 | 0.0250 | P | 1.6 | 0.2 |

y = 1.2388E-004 * x + 1.1736E-004
R = 1.0000
DL = 0.5562 ppb
BEC = 0.9473 ppb

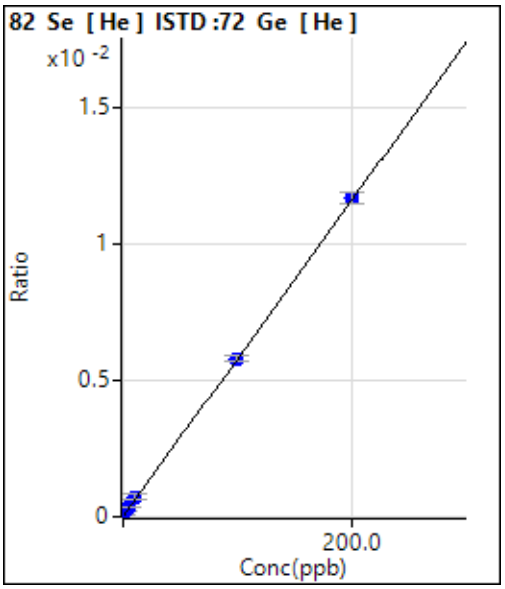
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 416.68 | 0.0001 | P | 23.2 | |
| 2 | ☐ | 2.000 | 2.166 | 1046.73 | 0.0003 | P | 9.8 | 8.3 |
| 3 | ☐ | 5.000 | 4.748 | 1796.82 | 0.0006 | P | 4.9 | -5.0 |
| 4 | ☐ | 10.000 | 10.192 | 3340.47 | 0.0011 | P | 4.7 | 1.9 |
| 5 | ☐ | 100.000 | 99.356 | 27327.86 | 0.0093 | P | 5.2 | -0.6 |
| 6 | ☐ | 200.000 | 200.317 | 53124.22 | 0.0187 | P | 0.7 | 0.2 |

y = 9.2789E-005 * x + 1.3032E-004
R = 1.0000
DL = 0.979 ppb
BEC = 1.405 ppb

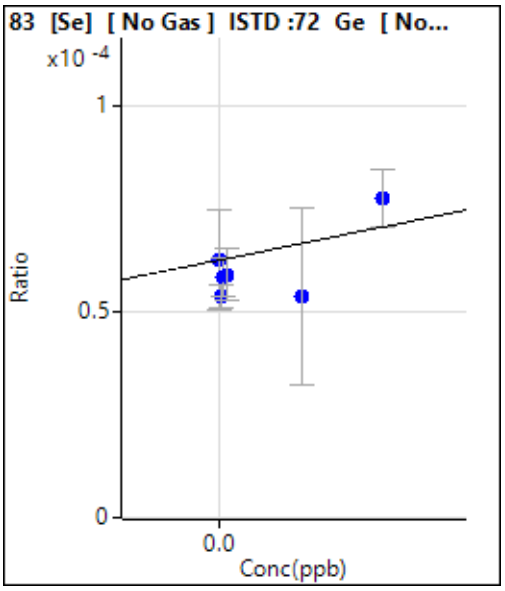
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 66.67 | 0.0001 | P | 34.3 | |
| 2 | ☐ | 2.000 | 2.080 | 173.34 | 0.0002 | P | 16.9 | 4.0 |
| 3 | ☐ | 5.000 | 4.544 | 300.01 | 0.0003 | P | 8.4 | -9.1 |
| 4 | ☐ | 10.000 | 11.047 | 633.36 | 0.0007 | P | 31.4 | 10.5 |
| 5 | ☐ | 100.000 | 98.808 | 4897.65 | 0.0058 | P | 4.2 | -1.2 |
| 6 | ☐ | 200.000 | 200.554 | 9676.94 | 0.0117 | P | 3.6 | 0.3 |

y = 5.7936E-005 * x + 7.3188E-005
R = 1.0000
DL = 1.3 ppb
BEC = 1.263 ppb

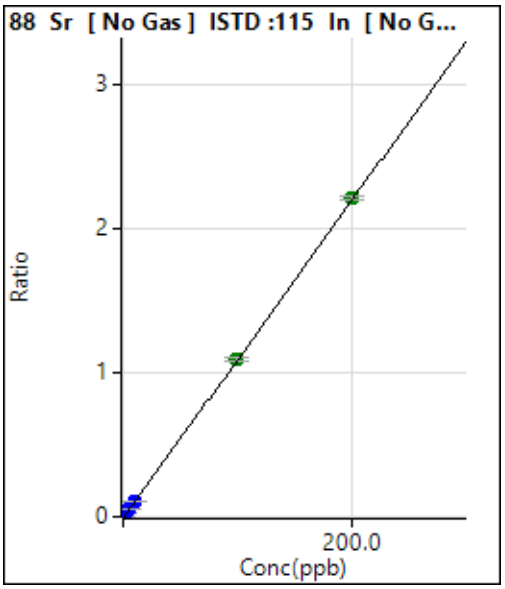
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 200.01 | 0.0001 | P | 38.2 | |
| 2 | ☐ | 2.000 | -215.533 | 170.00 | 0.0001 | P | 10.2 | -10876. |
| 3 | ☐ | 5.000 | -106.649 | 183.34 | 0.0001 | P | 16.5 | -2233.0 |
| 4 | ☐ | 10.000 | -88.045 | 183.34 | 0.0001 | P | 21.4 | -980.4 |
| 5 | ☐ | 100.000 | -217.110 | 156.67 | 0.0001 | P | 80.0 | -317.1 |
| 6 | ☐ | 200.000 | 368.424 | 220.01 | 0.0001 | P | 17.5 | 84.2 |

y = 4.0452E-008 * x + 6.2553E-005
R = 0.7170
DL = 1772 ppb
BEC = 1546 ppb

Weight: <None>
Min Conc: <None>

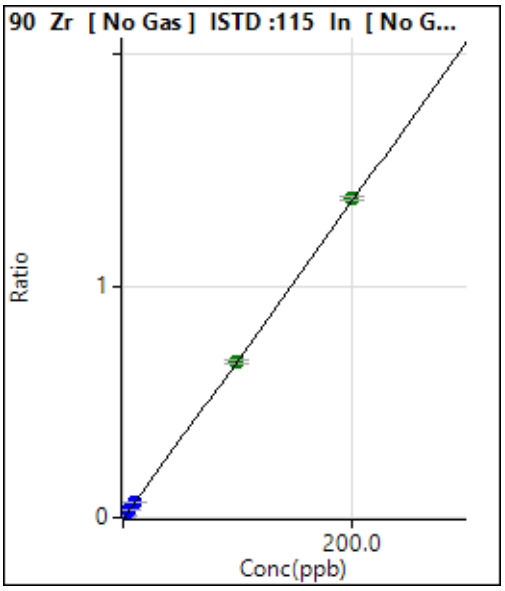



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2043.52 | 0.0005 | P | 14.3 | |
| 2 | ☐ | 2.000 | 2.046 | 100806.95 | 0.0231 | P | 1.8 | 2.3 |
| 3 | ☐ | 5.000 | 5.108 | 246714.32 | 0.0569 | P | 1.8 | 2.2 |
| 4 | ☐ | 10.000 | 10.128 | 483170.04 | 0.1123 | P | 1.9 | 1.3 |
| 5 | ☐ | 100.000 | 98.543 | 4446349.20 | 1.0885 | A | 2.4 | -1.5 |
| 6 | ☐ | 200.000 | 200.719 | 8796152.37 | 2.2165 | A | 1.6 | 0.4 |

y = 0.0110 * x + 4.6204E-004
R = 1.0000
DL = 0.01796 ppb
BEC = 0.04185 ppb

Weight: <None>
Min Conc: <None>

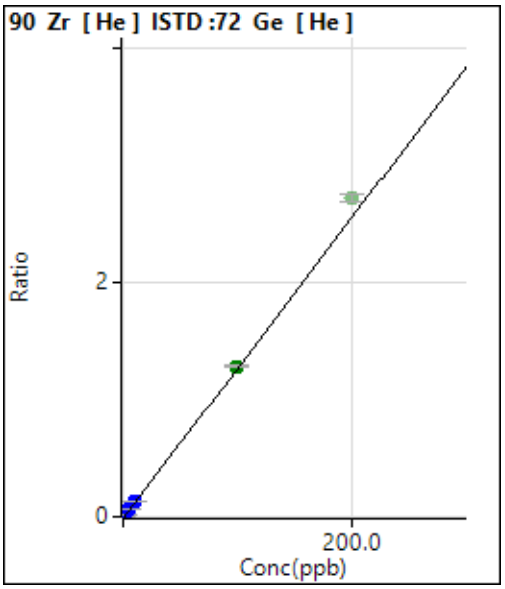
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1110.06 | 0.0003 | P | 6.6 | |
| 2 | ☐ | 2.000 | 1.664 | 50989.75 | 0.0117 | P | 1.1 | -16.8 |
| 3 | ☐ | 5.000 | 4.402 | 132064.15 | 0.0304 | P | 1.7 | -12.0 |
| 4 | ☐ | 10.000 | 9.338 | 276603.98 | 0.0643 | P | 1.2 | -6.6 |
| 5 | ☐ | 100.000 | 97.711 | 2737978.50 | 0.6703 | A | 2.3 | -2.3 |
| 6 | ☐ | 200.000 | 201.196 | 5475859.50 | 1.3798 | A | 1.3 | 0.6 |

y = 0.0069 * x + 2.5083E-004
R = 0.9999
DL = 0.007227 ppb
BEC = 0.03658 ppb

Weight: <None>
Min Conc: <None>

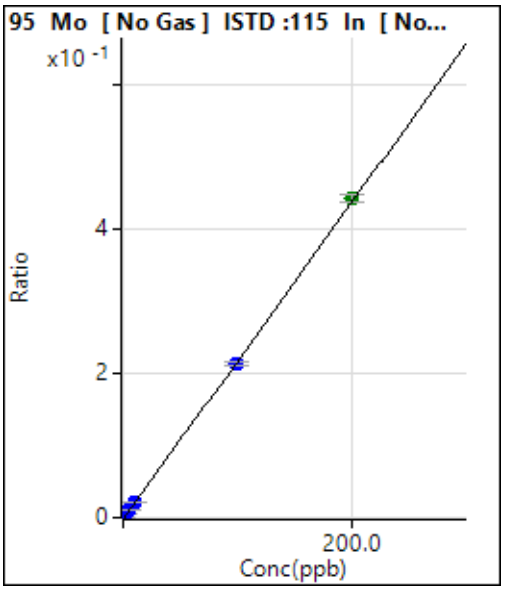



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1546.78 | 0.0017 | P | 7.0 | |
| 2 | ☐ | 2.000 | 1.699 | 20966.50 | 0.0235 | P | 3.5 | -15.0 |
| 3 | ☐ | 5.000 | 4.603 | 54058.52 | 0.0606 | P | 2.8 | -7.9 |
| 4 | ☐ | 10.000 | 9.651 | 111097.16 | 0.1253 | P | 1.6 | -3.5 |
| 5 | ☐ | 100.000 | 100.061 | 1083420.84 | 1.2827 | A | 1.9 | 0.1 |
| 6 | ☑ | 200.000 | | 2248455.17 | 2.7168 | A | 2.5 | |

y = 0.0128 * x + 0.0017
R = 1.0000
DL = 0.02786 ppb
BEC = 0.1328 ppb

Weight: <None>
Min Conc: <None>

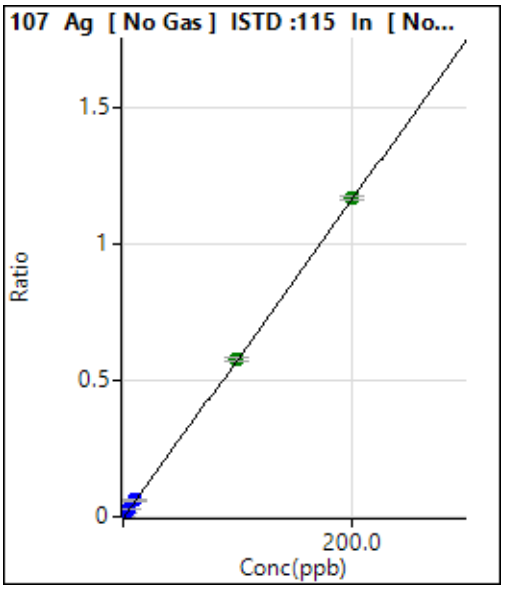
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 126.67 | 0.0000 | P | 15.8 | |
| 2 | ☐ | 2.000 | 1.938 | 18696.61 | 0.0043 | P | 3.9 | -3.1 |
| 3 | ☐ | 5.000 | 4.951 | 47206.40 | 0.0109 | P | 2.6 | -1.0 |
| 4 | ☐ | 10.000 | 9.890 | 93392.15 | 0.0217 | P | 2.5 | -1.1 |
| 5 | ☐ | 100.000 | 96.762 | 866437.20 | 0.2121 | P | 2.4 | -3.2 |
| 6 | ☐ | 200.000 | 201.626 | 1753771.80 | 0.4419 | A | 2.0 | 0.8 |

y = 0.0022 * x + 2.8607E-005
R = 0.9998
DL = 0.006193 ppb
BEC = 0.01305 ppb

Weight: <None>
Min Conc: <None>

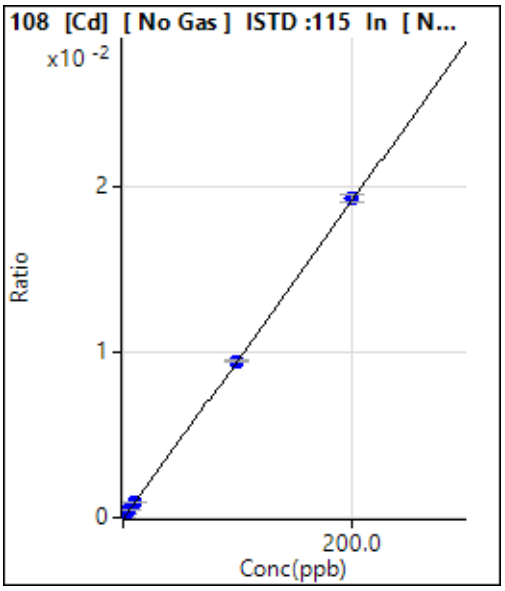



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 303.34 | 0.0001 | P | 31.9 | |
| 2 | ☐ | 2.000 | 2.098 | 53888.70 | 0.0123 | P | 2.2 | 4.9 |
| 3 | ☐ | 5.000 | 5.180 | 131578.56 | 0.0303 | P | 1.9 | 3.6 |
| 4 | ☐ | 10.000 | 10.342 | 260214.48 | 0.0605 | P | 2.0 | 3.4 |
| 5 | ☐ | 100.000 | 99.293 | 2369307.93 | 0.5800 | A | 2.0 | -0.7 |
| 6 | ☐ | 200.000 | 200.331 | 4643518.78 | 1.1701 | A | 1.4 | 0.2 |

y = 0.0058 * x + 6.8653E-005
R = 1.0000
DL = 0.01125 ppb
BEC = 0.01175 ppb

Weight: <None>
Min Conc: <None>

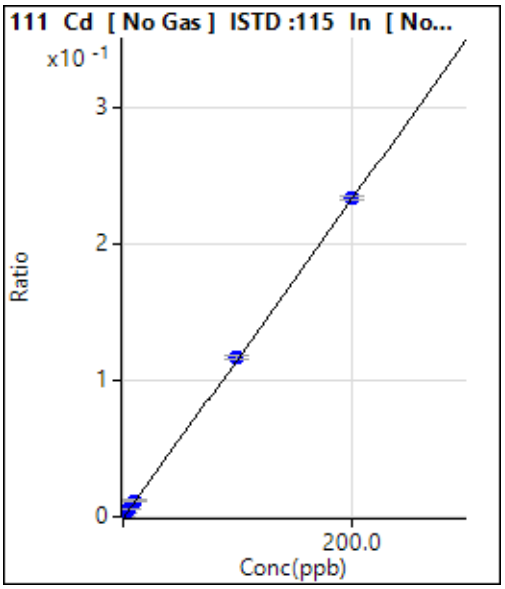
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 10.00 | 0.0000 | P | 100.2 | |
| 2 | ☐ | 2.000 | 2.102 | 893.38 | 0.0002 | P | 8.0 | 5.1 |
| 3 | ☐ | 5.000 | 4.693 | 1966.85 | 0.0005 | P | 14.7 | -6.1 |
| 4 | ☐ | 10.000 | 9.909 | 4107.37 | 0.0010 | P | 3.5 | -0.9 |
| 5 | ☐ | 100.000 | 98.249 | 38582.61 | 0.0094 | P | 0.8 | -1.8 |
| 6 | ☐ | 200.000 | 200.887 | 76619.08 | 0.0193 | P | 2.4 | 0.4 |

y = 9.6100E-005 * x + 2.2713E-006
R = 0.9999
DL = 0.07107 ppb
BEC = 0.02363 ppb

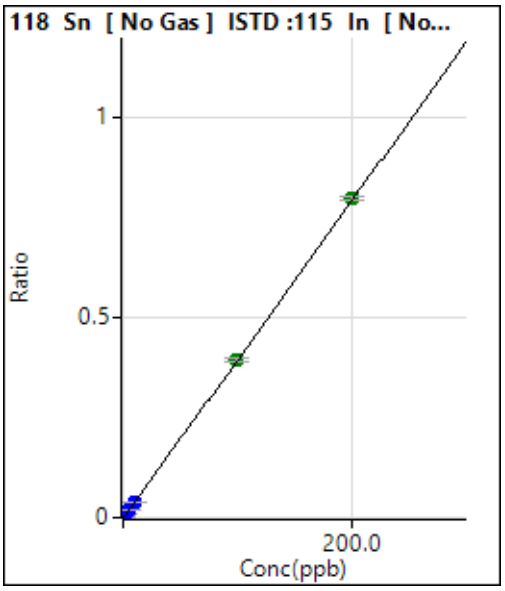
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | -7.40 | 0.0000 | P | -214. | |
| 2 | ☐ | 2.000 | 1.973 | 10099.50 | 0.0023 | P | 5.6 | -1.4 |
| 3 | ☐ | 5.000 | 5.059 | 25709.01 | 0.0059 | P | 3.3 | 1.2 |
| 4 | ☐ | 10.000 | 10.136 | 51091.88 | 0.0119 | P | 2.5 | 1.4 |
| 5 | ☐ | 100.000 | 99.931 | 478228.22 | 0.1171 | P | 1.6 | -0.1 |
| 6 | ☐ | 200.000 | 200.027 | 929935.39 | 0.2343 | P | 1.2 | 0.0 |

y = 0.0012 * x - 1.6896E-006
R = 1.0000
DL = 0.009272 ppb
BEC = -0.001442 ppb

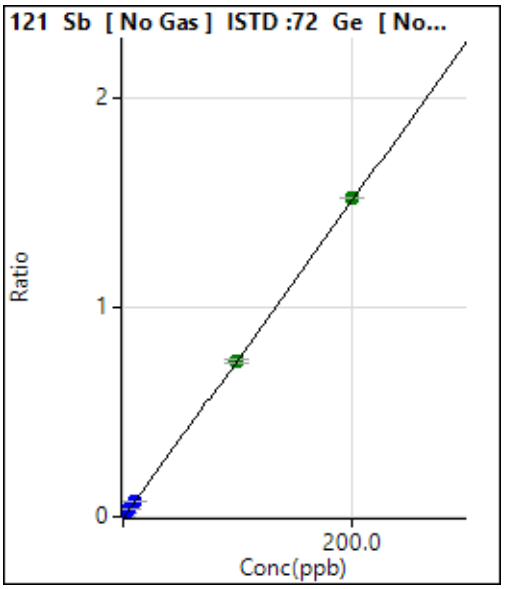
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7792.59 | 0.0018 | P | 90.4 | |
| 2 | ☐ | 2.000 | 1.722 | 37580.33 | 0.0086 | P | 1.7 | -13.9 |
| 3 | ☐ | 5.000 | 4.647 | 87664.91 | 0.0202 | P | 2.5 | -7.1 |
| 4 | ☐ | 10.000 | 9.723 | 173686.49 | 0.0404 | P | 1.5 | -2.8 |
| 5 | ☐ | 100.000 | 98.589 | 1606338.05 | 0.3932 | A | 2.6 | -1.4 |
| 6 | ☐ | 200.000 | 200.731 | 3170027.97 | 0.7988 | A | 1.2 | 0.4 |

y = 0.0040 * x + 0.0018
R = 1.0000
DL = 1.198 ppb
BEC = 0.4417 ppb

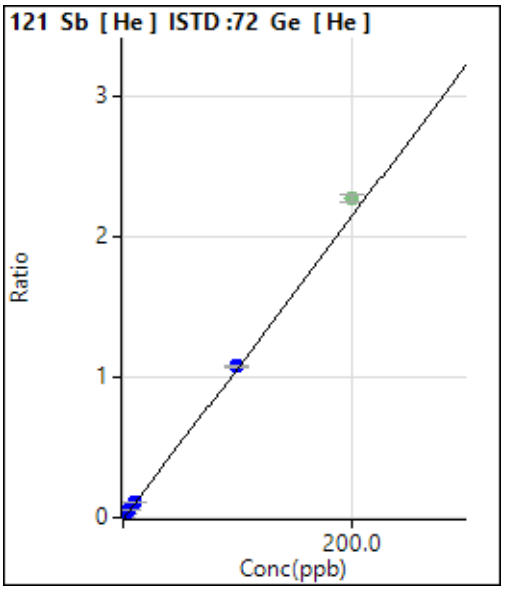
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 613.36 | 0.0002 | P | 14.2 | |
| 2 | ☐ | 2.000 | 1.914 | 46424.92 | 0.0147 | P | 1.8 | -4.3 |
| 3 | ☐ | 5.000 | 4.808 | 115324.75 | 0.0366 | P | 2.3 | -3.8 |
| 4 | ☐ | 10.000 | 9.750 | 230101.50 | 0.0741 | P | 1.4 | -2.5 |
| 5 | ☐ | 100.000 | 97.932 | 2170757.83 | 0.7426 | A | 2.6 | -2.1 |
| 6 | ☐ | 200.000 | 201.052 | 4326346.60 | 1.5244 | A | 0.5 | 0.5 |

y = 0.0076 * x + 1.9131E-004
R = 0.9999
DL = 0.01078 ppb
BEC = 0.02523 ppb

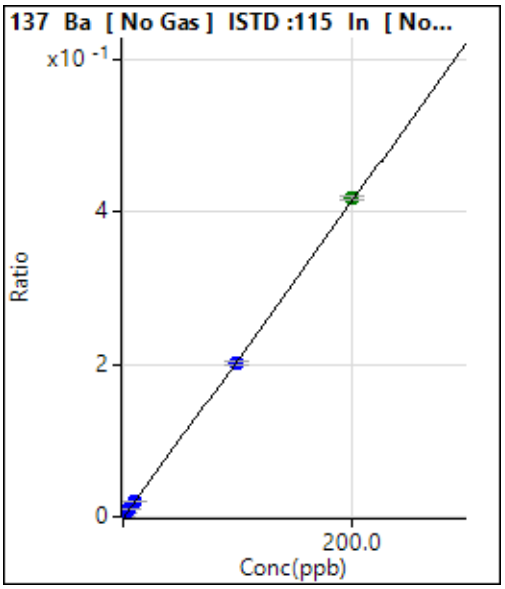
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 270.01 | 0.0003 | P | 2.9 | |
| 2 | ☐ | 2.000 | 1.985 | 19414.50 | 0.0217 | P | 2.2 | -0.7 |
| 3 | ☐ | 5.000 | 5.048 | 48830.03 | 0.0548 | P | 2.9 | 1.0 |
| 4 | ☐ | 10.000 | 10.038 | 96338.64 | 0.1086 | P | 2.1 | 0.4 |
| 5 | ☐ | 100.000 | 99.994 | 911668.94 | 1.0793 | P | 1.6 | 0.0 |
| 6 | ☑ | 200.000 | | 1885754.97 | 2.2786 | A | 2.3 | |

y = 0.0108 * x + 2.9669E-004
R = 1.0000
DL = 0.00237 ppb
BEC = 0.02749 ppb

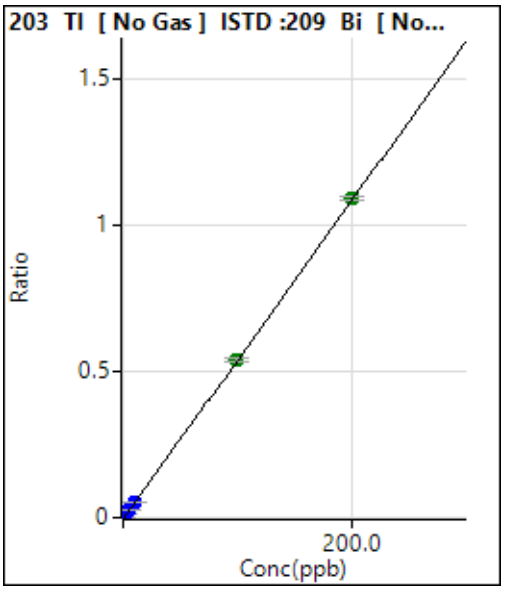
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 633.36 | 0.0001 | P | 20.8 | |
| 2 | ☐ | 2.000 | 1.950 | 18346.41 | 0.0042 | P | 2.8 | -2.5 |
| 3 | ☐ | 5.000 | 4.956 | 45298.23 | 0.0104 | P | 2.4 | -0.9 |
| 4 | ☐ | 10.000 | 9.867 | 88836.43 | 0.0206 | P | 4.7 | -1.3 |
| 5 | ☐ | 100.000 | 97.284 | 826307.96 | 0.2023 | P | 1.9 | -2.7 |
| 6 | ☐ | 200.000 | 201.366 | 1660976.80 | 0.4185 | A | 1.3 | 0.7 |

y = 0.0021 * x + 1.4299E-004
R = 0.9999
DL = 0.04294 ppb
BEC = 0.06882 ppb

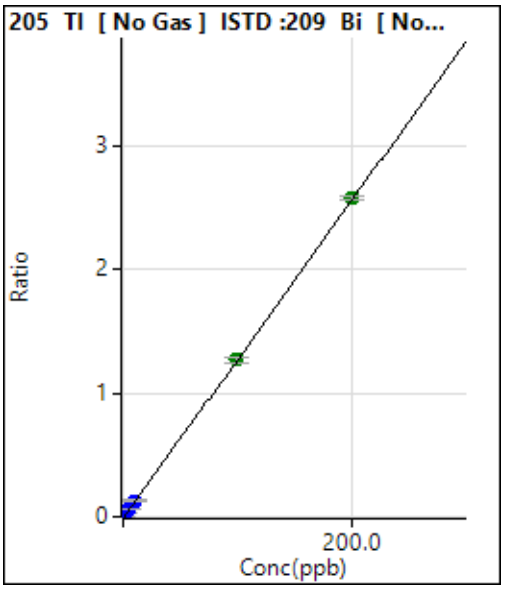
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 306.68 | 0.0001 | P | 34.6 | |
| 2 | ☐ | 2.000 | 2.068 | 55087.37 | 0.0113 | P | 1.4 | 3.4 |
| 3 | ☐ | 5.000 | 5.130 | 134948.34 | 0.0280 | P | 2.6 | 2.6 |
| 4 | ☐ | 10.000 | 10.073 | 266008.66 | 0.0549 | P | 1.7 | 0.7 |
| 5 | ☐ | 100.000 | 98.988 | 2475478.45 | 0.5390 | A | 3.1 | -1.0 |
| 6 | ☐ | 200.000 | 200.498 | 4844499.61 | 1.0916 | A | 0.9 | 0.2 |

y = 0.0054 * x + 6.2523E-005
R = 1.0000
DL = 0.01191 ppb
BEC = 0.01148 ppb

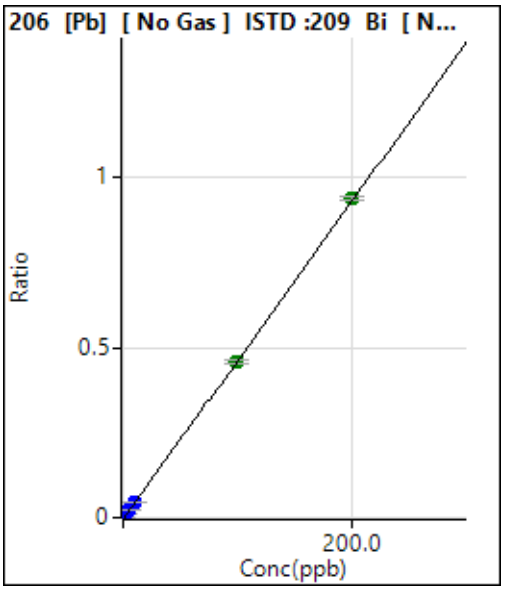
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 690.04 | 0.0001 | P | 13.9 | |
| 2 | ☐ | 2.000 | 2.067 | 130025.36 | 0.0267 | P | 0.8 | 3.3 |
| 3 | ☐ | 5.000 | 5.172 | 321407.94 | 0.0667 | P | 1.6 | 3.4 |
| 4 | ☐ | 10.000 | 10.170 | 634396.28 | 0.1309 | P | 2.0 | 1.7 |
| 5 | ☐ | 100.000 | 98.762 | 5834332.00 | 1.2703 | A | 3.1 | -1.2 |
| 6 | ☐ | 200.000 | 200.606 | 11450363.58 | 2.5800 | A | 1.0 | 0.3 |

y = 0.0129 * x + 1.4080E-004
R = 1.0000
DL = 0.004553 ppb
BEC = 0.01095 ppb

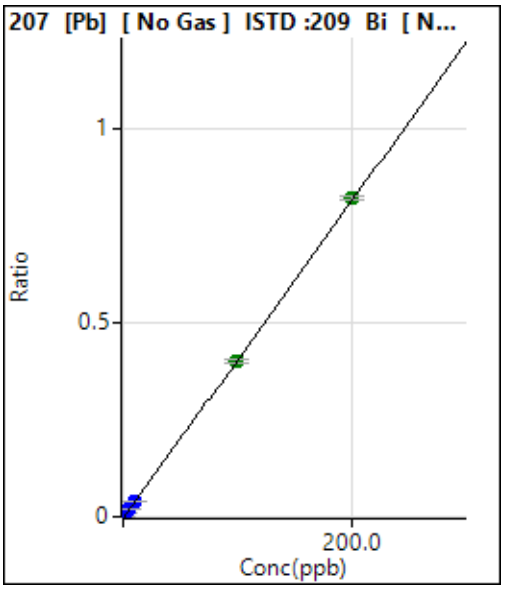
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 613.36 | 0.0001 | P | 1.1 | |
| 2 | ☐ | 2.000 | 1.974 | 45428.86 | 0.0093 | P | 2.2 | -1.3 |
| 3 | ☐ | 5.000 | 5.028 | 113712.79 | 0.0236 | P | 2.5 | 0.6 |
| 4 | ☐ | 10.000 | 9.913 | 224739.88 | 0.0464 | P | 1.1 | -0.9 |
| 5 | ☐ | 100.000 | 97.820 | 2097034.92 | 0.4566 | A | 2.7 | -2.2 |
| 6 | ☐ | 200.000 | 201.094 | 4164933.58 | 0.9385 | A | 1.0 | 0.5 |

y = 0.0047 * x + 1.2522E-004
R = 0.9999
DL = 0.0008833 ppb
BEC = 0.02683 ppb

Weight: <None>
Min Conc: <None>

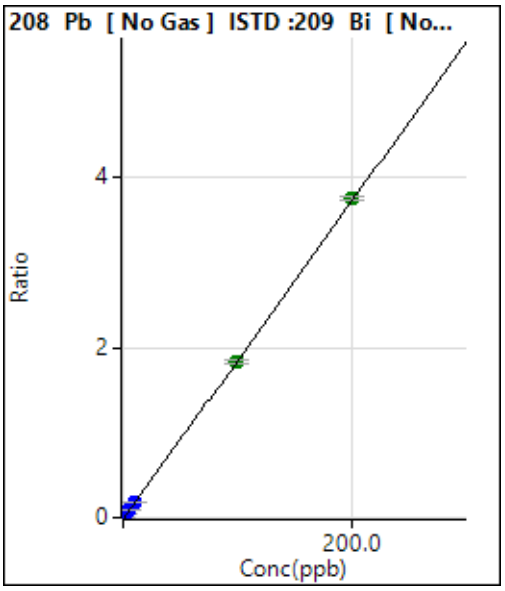



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 526.69 | 0.0001 | P | 2.5 | |
| 2 | ☐ | 2.000 | 1.977 | 39916.91 | 0.0082 | P | 2.8 | -1.1 |
| 3 | ☐ | 5.000 | 4.949 | 98247.52 | 0.0204 | P | 1.1 | -1.0 |
| 4 | ☐ | 10.000 | 9.792 | 194824.24 | 0.0402 | P | 1.1 | -2.1 |
| 5 | ☐ | 100.000 | 98.116 | 1846001.28 | 0.4019 | A | 2.1 | -1.9 |
| 6 | ☐ | 200.000 | 200.954 | 3652784.63 | 0.8230 | A | 1.2 | 0.5 |

y = 0.0041 * x + 1.0751E-004
R = 0.9999
DL = 0.001976 ppb
BEC = 0.02625 ppb

Weight: <None>
Min Conc: <None>

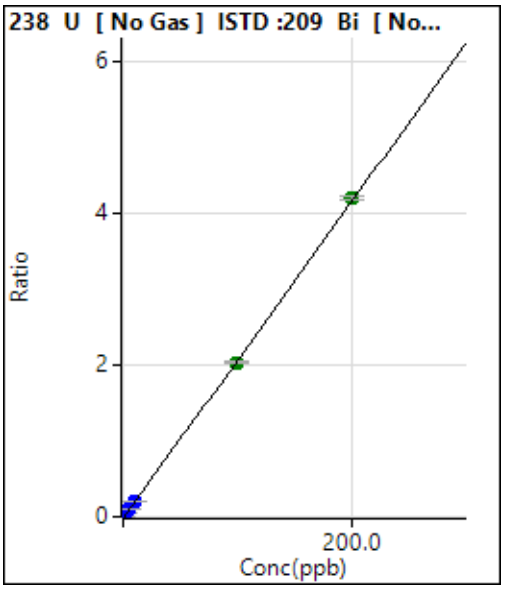
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2323.46 | 0.0005 | P | 5.2 | |
| 2 | ☐ | 2.000 | 1.983 | 182555.67 | 0.0375 | P | 1.1 | -0.8 |
| 3 | ☐ | 5.000 | 5.001 | 452680.68 | 0.0939 | P | 1.6 | 0.0 |
| 4 | ☐ | 10.000 | 9.922 | 900363.97 | 0.1858 | P | 1.0 | -0.8 |
| 5 | ☐ | 100.000 | 98.116 | 8420353.73 | 1.8333 | A | 2.1 | -1.9 |
| 6 | ☐ | 200.000 | 200.946 | 16660976.42 | 3.7541 | A | 0.8 | 0.5 |

y = 0.0187 * x + 4.7423E-004
R = 0.9999
DL = 0.003976 ppb
BEC = 0.02539 ppb

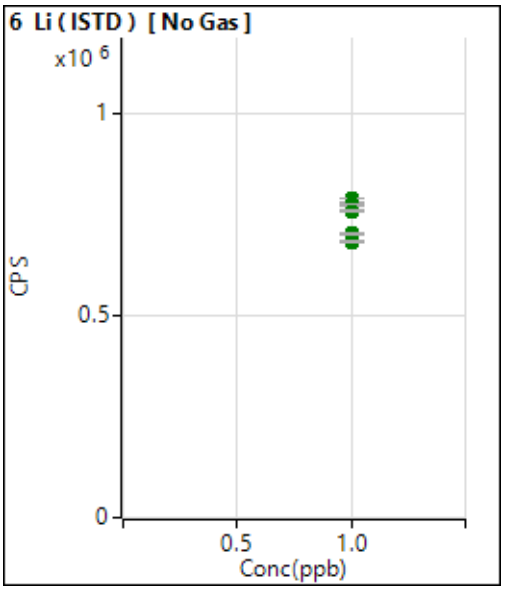
Weight: <None>
Min Conc: <None>



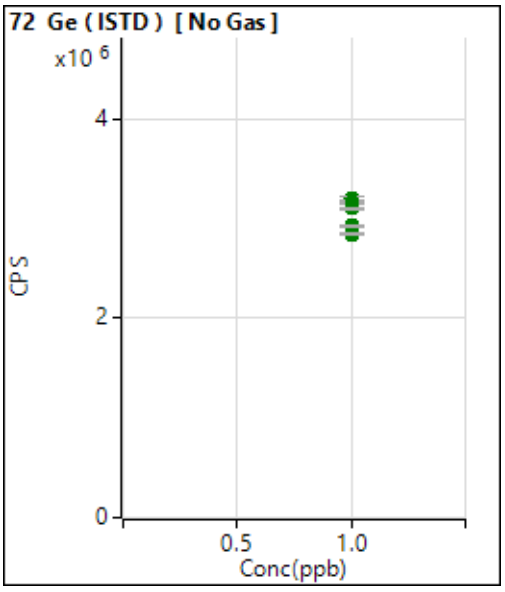

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1480.12 | 0.0003 | P | 5.6 | |
| 2 | ☐ | 2.000 | 1.852 | 189250.53 | 0.0389 | P | 0.7 | -7.4 |
| 3 | ☐ | 5.000 | 4.679 | 471674.98 | 0.0978 | P | 0.8 | -6.4 |
| 4 | ☐ | 10.000 | 9.283 | 938876.92 | 0.1938 | P | 0.9 | -7.2 |
| 5 | ☐ | 100.000 | 97.517 | 9336513.61 | 2.0327 | A | 1.8 | -2.5 |
| 6 | ☐ | 200.000 | 201.287 | 18618820.56 | 4.1953 | A | 1.2 | 0.6 |

y = 0.0208 * x + 3.0208E-004
R = 0.9999
DL = 0.002426 ppb
BEC = 0.01449 ppb

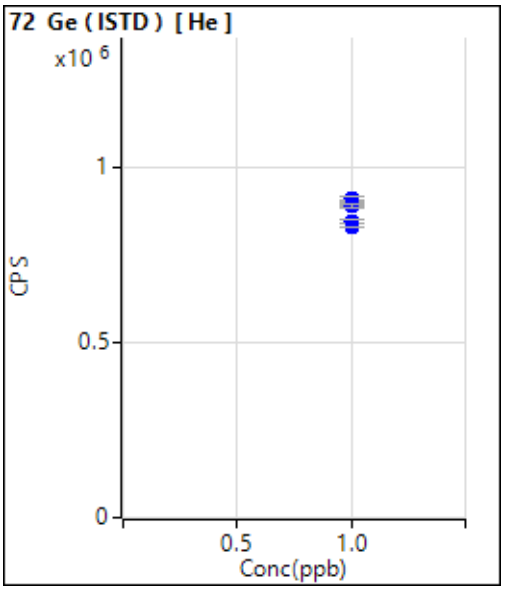
Weight: <None>
Min Conc: <None>



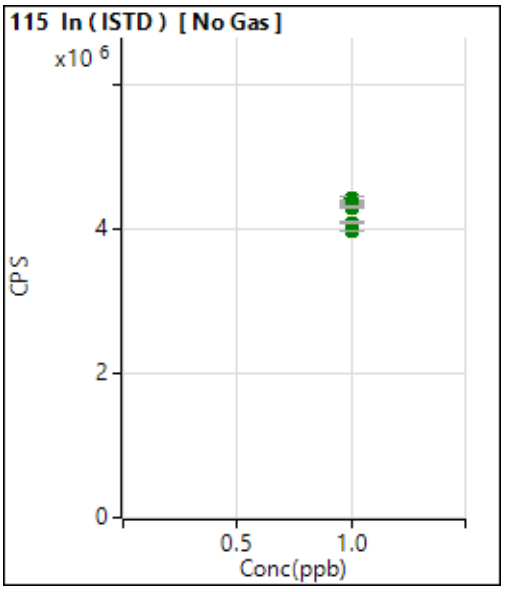

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 789600.72 | | A | 0.1 | |
| 2 | ☐ | 1.000 | | 775224.95 | | A | 0.7 | |
| 3 | ☐ | 1.000 | | 773452.79 | | A | 0.2 | |
| 4 | ☐ | 1.000 | | 758349.11 | | A | 0.7 | |
| 5 | ☐ | 1.000 | | 702121.63 | | A | 0.9 | |
| 6 | ☐ | 1.000 | | 682313.47 | | A | 0.4 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3202766.93 | | A | 1.1 | |
| 2 | ☐ | 1.000 | | 3158043.81 | | A | 0.8 | |
| 3 | ☐ | 1.000 | | 3147283.08 | | A | 0.4 | |
| 4 | ☐ | 1.000 | | 3105103.60 | | A | 0.7 | |
| 5 | ☐ | 1.000 | | 2923348.81 | | A | 0.8 | |
| 6 | ☐ | 1.000 | | 2838106.21 | | A | 0.7 | |

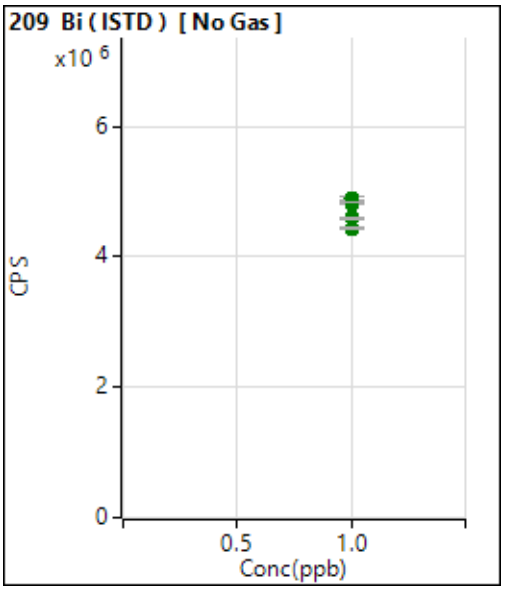



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 909952.25 | | P | 1.0 | |
| 2 | ☐ | 1.000 | | 893987.98 | | P | 0.8 | |
| 3 | ☐ | 1.000 | | 891524.36 | | P | 0.4 | |
| 4 | ☐ | 1.000 | | 886961.47 | | P | 0.9 | |
| 5 | ☐ | 1.000 | | 844684.91 | | P | 1.3 | |
| 6 | ☐ | 1.000 | | 827580.22 | | P | 0.4 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4425209.38 | | A | 0.8 | |
| 2 | ☐ | 1.000 | | 4373188.50 | | A | 0.2 | |
| 3 | ☐ | 1.000 | | 4339244.30 | | A | 0.7 | |
| 4 | ☐ | 1.000 | | 4303189.89 | | A | 0.2 | |
| 5 | ☐ | 1.000 | | 4085281.93 | | A | 0.7 | |
| 6 | ☐ | 1.000 | | 3968529.13 | | A | 0.3 | |

Calibration for 172_ICV.d



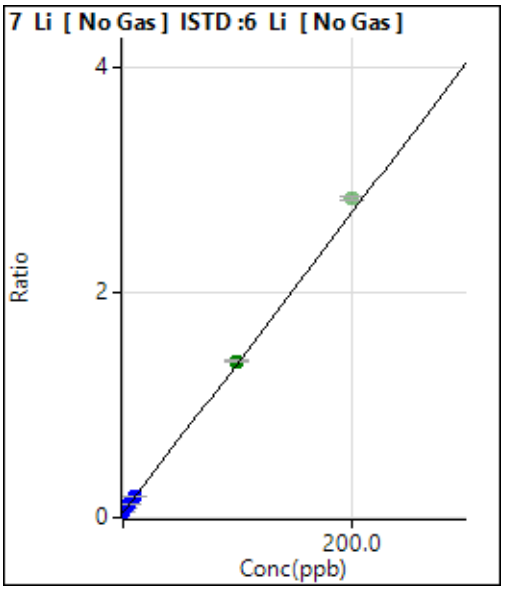

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4898592.22 | | A | 0.6 | |
| 2 | ☐ | 1.000 | | 4865545.24 | | A | 0.6 | |
| 3 | ☐ | 1.000 | | 4821597.12 | | A | 0.7 | |
| 4 | ☐ | 1.000 | | 4845240.35 | | A | 0.3 | |
| 5 | ☐ | 1.000 | | 4593412.85 | | A | 0.6 | |
| 6 | ☐ | 1.000 | | 4438006.81 | | A | 0.5 | |

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062824A.b\
Analysis File: 062824A.batch.bin
DA Date-Time: 6/28/2024 10:08:19 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 010CALB.d | CAL BLK | 6/28/2024 10:48:54 AM |
| 2 | 011CALS.d | 2/10/200 | 6/28/2024 10:51:37 AM |
| 3 | 012CALS.d | 5/25/500 | 6/28/2024 10:54:18 AM |
| 4 | 013CALS.d | 10/50/100 | 6/28/2024 10:56:58 AM |
| 5 | 014CALS.d | 100/500/10K | 6/28/2024 10:59:39 AM |
| 6 | 015CALS.d | 200/1000/20K | 6/28/2024 11:02:18 AM |

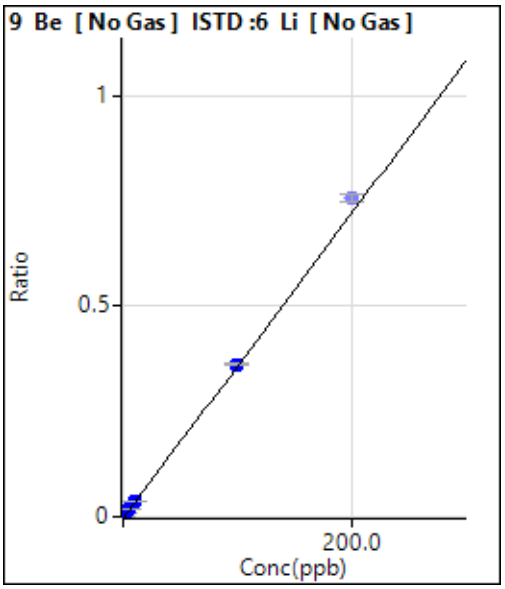
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 53693.95 | 0.0580 | P | 0.8 | |
| 2 | ☐ | 2.000 | 1.985 | 76827.04 | 0.0844 | P | 0.8 | -0.8 |
| 3 | ☐ | 5.000 | 4.966 | 111419.71 | 0.1240 | P | 2.0 | -0.7 |
| 4 | ☐ | 10.000 | 9.951 | 168866.07 | 0.1903 | P | 1.1 | -0.5 |
| 5 | ☐ | 100.000 | 100.007 | 1132266.78 | 1.3869 | A | 1.7 | 0.0 |
| 6 | ☑ | 200.000 | | 2170636.01 | 2.8328 | A | 1.4 | |

y = 0.0133 * x + 0.0580
R = 1.0000
DL = 0.09885 ppb
BEC = 4.368 ppb

Weight: <None>
Min Conc: <None>

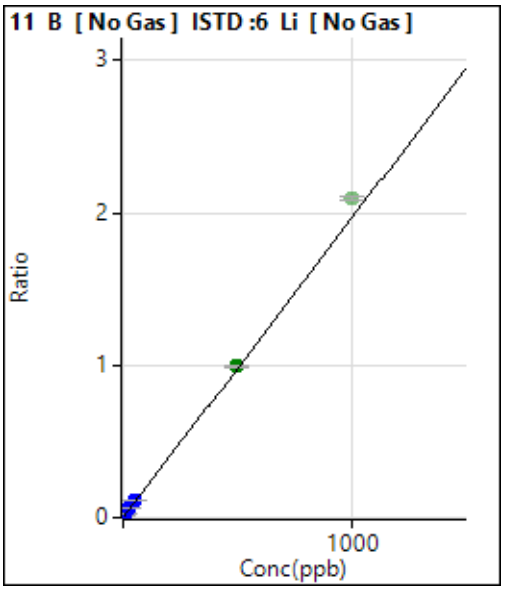



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 93.33 | 0.0001 | P | 21.9 | |
| 2 | ☐ | 2.000 | 1.940 | 6486.52 | 0.0071 | P | 3.3 | -3.0 |
| 3 | ☐ | 5.000 | 4.865 | 15915.62 | 0.0177 | P | 5.9 | -2.7 |
| 4 | ☐ | 10.000 | 9.972 | 32139.60 | 0.0362 | P | 1.2 | -0.3 |
| 5 | ☐ | 100.000 | 100.011 | 295776.38 | 0.3623 | P | 1.9 | 0.0 |
| 6 | ☑ | 200.000 | | 580133.38 | 0.7571 | P | 2.2 | |

y = 0.0036 * x + 1.0094E-004
R = 1.0000
DL = 0.01834 ppb
BEC = 0.02787 ppb

Weight: <None>
Min Conc: <None>

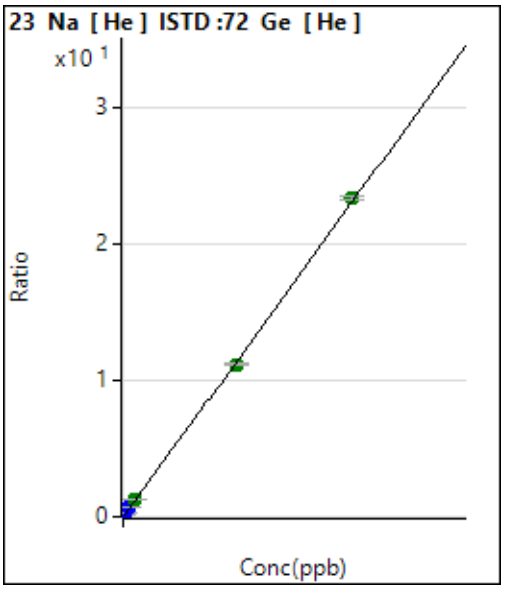
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 10485.62 | 0.0113 | P | 1.5 | |
| 2 | ☐ | 10.000 | 9.335 | 27000.62 | 0.0297 | P | 1.8 | -6.6 |
| 3 | ☐ | 25.000 | 24.615 | 53607.41 | 0.0597 | P | 3.3 | -1.5 |
| 4 | ☐ | 50.000 | 49.444 | 96239.64 | 0.1084 | P | 1.1 | -1.1 |
| 5 | ☐ | 500.000 | 500.088 | 811064.34 | 0.9934 | A | 1.8 | 0.0 |
| 6 | ☑ | 1000.000 | | 1606226.28 | 2.0962 | A | 1.4 | |

y = 0.0020 * x + 0.0113
R = 1.0000
DL = 0.2563 ppb
BEC = 5.772 ppb

Weight: <None>
Min Conc: <None>

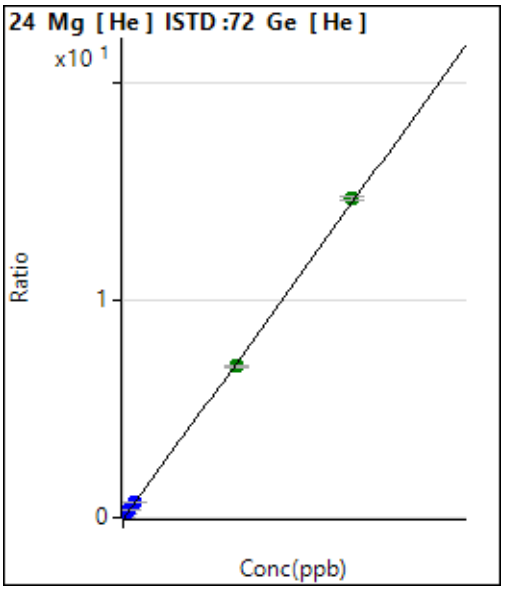



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 68033.74 | 0.0869 | P | 1.0 | |
| 2 | ☐ | 200.000 | 194.421 | 241881.29 | 0.3106 | P | 2.2 | -2.8 |
| 3 | ☐ | 500.000 | 497.467 | 512046.74 | 0.6594 | P | 1.1 | -0.5 |
| 4 | ☐ | 1000.000 | 1007.977 | 958747.62 | 1.2469 | A | 2.0 | 0.8 |
| 5 | ☐ | 10000.00 | 9605.169 | 8244615.92 | 11.1412 | A | 1.2 | -3.9 |
| 6 | ☐ | 20000.00 | 20197.13 | 16883068.50 | 23.3311 | A | 1.5 | 1.0 |

y = 0.0012 * x + 0.0869
R = 0.9997
DL = 2.27 ppb
BEC = 75.48 ppb

Weight: <None>
Min Conc: <None>

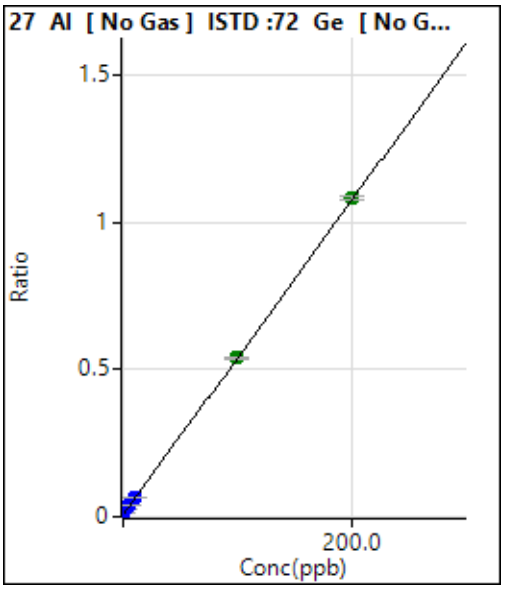
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1630.12 | 0.0021 | P | 7.2 | |
| 2 | ☐ | 200.000 | 190.440 | 109586.99 | 0.1407 | P | 4.6 | -4.8 |
| 3 | ☐ | 500.000 | 491.846 | 279702.50 | 0.3602 | P | 1.3 | -1.6 |
| 4 | ☐ | 1000.000 | 997.385 | 559962.84 | 0.7283 | P | 1.8 | -0.3 |
| 5 | ☐ | 10000.00 | 9579.136 | 5162817.63 | 6.9765 | A | 1.5 | -4.2 |
| 6 | ☐ | 20000.00 | 20210.86 | 10649836.92 | 14.7174 | A | 1.7 | 1.1 |

y = 7.2809E-004 * x + 0.0021
R = 0.9997
DL = 0.6191 ppb
BEC = 2.858 ppb

Weight: <None>
Min Conc: <None>

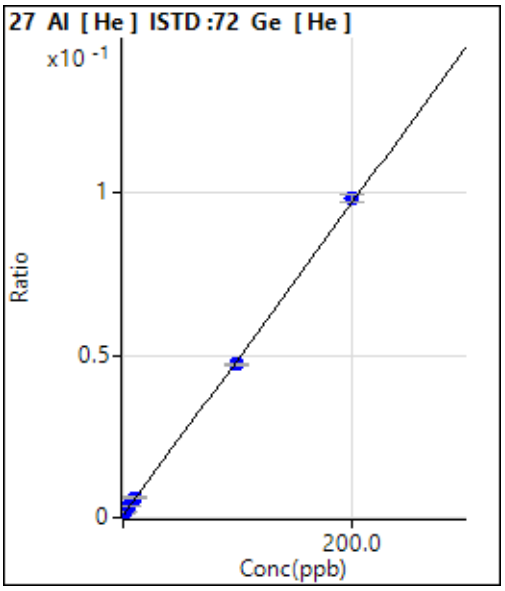



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 34101.58 | 0.0123 | P | 2.5 | |
| 2 | ☐ | 2.000 | 2.117 | 65264.21 | 0.0236 | P | 1.6 | 5.9 |
| 3 | ☐ | 5.000 | 4.999 | 106947.31 | 0.0390 | P | 1.5 | 0.0 |
| 4 | ☐ | 10.000 | 10.403 | 185299.17 | 0.0679 | P | 1.3 | 4.0 |
| 5 | ☐ | 100.000 | 98.785 | 1416939.09 | 0.5399 | A | 1.6 | -1.2 |
| 6 | ☐ | 200.000 | 200.586 | 2757465.17 | 1.0836 | A | 1.4 | 0.3 |

y = 0.0053 * x + 0.0123
R = 1.0000
DL = 0.1758 ppb
BEC = 2.307 ppb

Weight: <None>
Min Conc: <None>

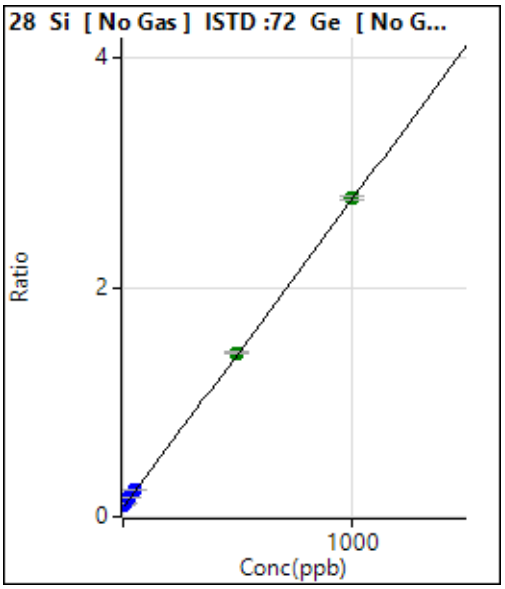
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 930.05 | 0.0012 | P | 8.3 | |
| 2 | ☐ | 2.000 | 1.636 | 1536.78 | 0.0020 | P | 4.7 | -18.2 |
| 3 | ☐ | 5.000 | 4.780 | 2706.97 | 0.0035 | P | 1.5 | -4.4 |
| 4 | ☐ | 10.000 | 10.172 | 4674.20 | 0.0061 | P | 7.8 | 1.7 |
| 5 | ☐ | 100.000 | 95.743 | 34950.40 | 0.0472 | P | 1.5 | -4.3 |
| 6 | ☐ | 200.000 | 202.129 | 71196.14 | 0.0984 | P | 2.2 | 1.1 |

y = 4.8088E-004 * x + 0.0012
R = 0.9997
DL = 0.6129 ppb
BEC = 2.469 ppb

Weight: <None>
Min Conc: <None>

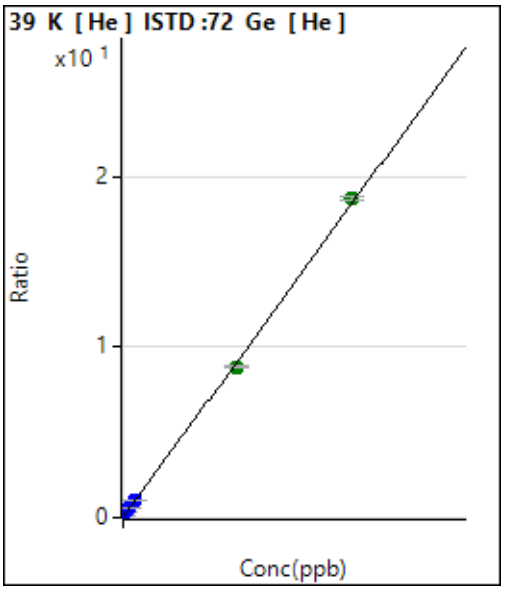



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 259377.48 | 0.0937 | P | 3.4 | |
| 2 | ☐ | 10.000 | 10.538 | 336928.11 | 0.1220 | P | 1.4 | 5.4 |
| 3 | ☐ | 25.000 | 26.114 | 448739.76 | 0.1637 | P | 1.7 | 4.5 |
| 4 | ☐ | 50.000 | 52.538 | 640435.47 | 0.2346 | P | 0.5 | 5.1 |
| 5 | ☐ | 500.000 | 496.287 | 3738979.43 | 1.4247 | A | 1.2 | -0.7 |
| 6 | ☐ | 1000.000 | 1001.696 | 7074832.81 | 2.7802 | A | 0.9 | 0.2 |

y = 0.0027 * x + 0.0937
R = 1.0000
DL = 3.552 ppb
BEC = 34.94 ppb

Weight: <None>
Min Conc: <None>

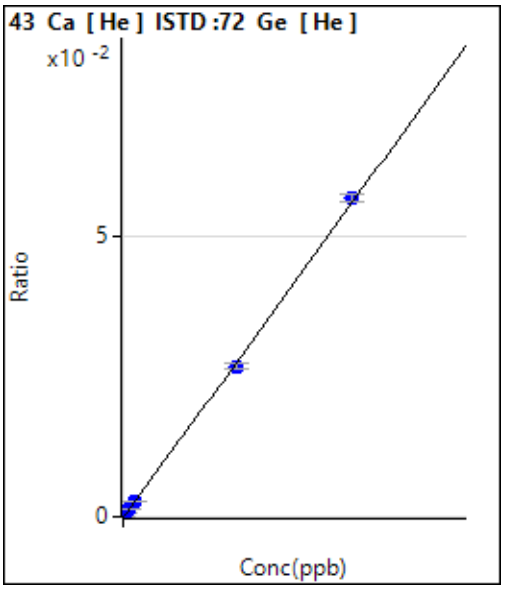
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 86238.61 | 0.1101 | P | 1.9 | |
| 2 | ☐ | 200.000 | 190.632 | 222088.86 | 0.2852 | P | 1.8 | -4.7 |
| 3 | ☐ | 500.000 | 484.177 | 430864.03 | 0.5548 | P | 1.6 | -3.2 |
| 4 | ☐ | 1000.000 | 980.426 | 777098.58 | 1.0107 | P | 2.0 | -2.0 |
| 5 | ☐ | 10000.00 | 9496.081 | 6536171.36 | 8.8326 | A | 0.8 | -5.0 |
| 6 | ☐ | 20000.00 | 20253.42 | 13541562.71 | 18.7136 | A | 1.8 | 1.3 |

y = 9.1854E-004 * x + 0.1101
R = 0.9996
DL = 6.861 ppb
BEC = 119.9 ppb

Weight: <None>
Min Conc: <None>

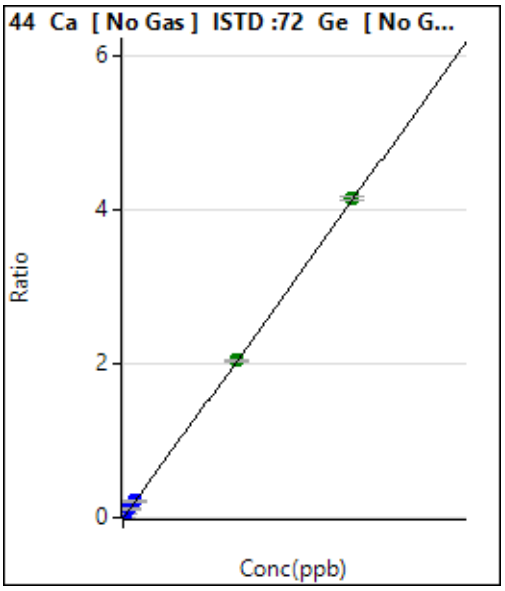



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 43.33 | 0.0001 | P | 58.6 | |
| 2 | ☐ | 200.000 | 198.303 | 476.68 | 0.0006 | P | 13.7 | -0.8 |
| 3 | ☐ | 500.000 | 484.738 | 1100.06 | 0.0014 | P | 8.6 | -3.1 |
| 4 | ☐ | 1000.000 | 957.754 | 2110.20 | 0.0027 | P | 10.7 | -4.2 |
| 5 | ☐ | 10000.00 | 9543.795 | 19871.21 | 0.0268 | P | 4.8 | -4.6 |
| 6 | ☐ | 20000.00 | 20230.61 | 41137.64 | 0.0569 | P | 2.1 | 1.2 |

y = 2.8074E-006 * x + 5.5433E-005
R = 0.9996
DL = 34.71 ppb
BEC = 19.75 ppb

Weight: <None>
Min Conc: <None>

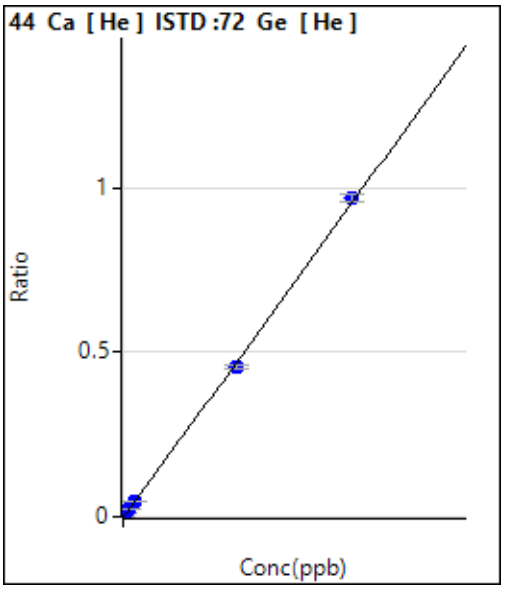
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 28997.33 | 0.0105 | P | 2.7 | |
| 2 | ☐ | 200.000 | 196.142 | 140482.65 | 0.0509 | P | 2.7 | -1.9 |
| 3 | ☐ | 500.000 | 495.867 | 308521.45 | 0.1126 | P | 0.8 | -0.8 |
| 4 | ☐ | 1000.000 | 988.159 | 583938.00 | 0.2139 | P | 2.4 | -1.2 |
| 5 | ☐ | 10000.00 | 9843.692 | 5346373.77 | 2.0372 | A | 1.7 | -1.6 |
| 6 | ☐ | 20000.00 | 20078.88 | 10546593.38 | 4.1445 | A | 1.0 | 0.4 |

y = 2.0589E-004 * x + 0.0105
R = 1.0000
DL = 4.144 ppb
BEC = 50.88 ppb

Weight: <None>
Min Conc: <None>

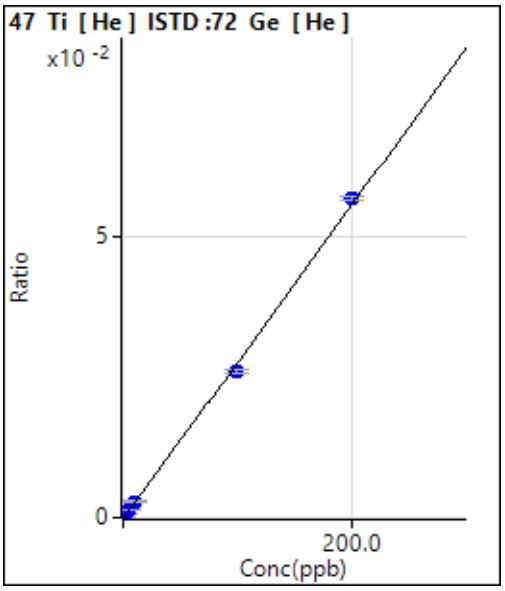



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 606.69 | 0.0008 | P | 3.6 | |
| 2 | ☐ | 200.000 | 197.813 | 7985.77 | 0.0103 | P | 7.2 | -1.1 |
| 3 | ☐ | 500.000 | 480.803 | 18499.27 | 0.0238 | P | 2.9 | -3.8 |
| 4 | ☐ | 1000.000 | 969.695 | 36334.41 | 0.0473 | P | 2.6 | -3.0 |
| 5 | ☐ | 10000.00 | 9534.462 | 338794.68 | 0.4578 | P | 2.8 | -4.7 |
| 6 | ☐ | 20000.00 | 20234.78 | 702419.83 | 0.9707 | P | 1.9 | 1.2 |

y = 4.7934E-005 * x + 7.7452E-004
R = 0.9996
DL = 1.757 ppb
BEC = 16.16 ppb

Weight: <None>
Min Conc: <None>

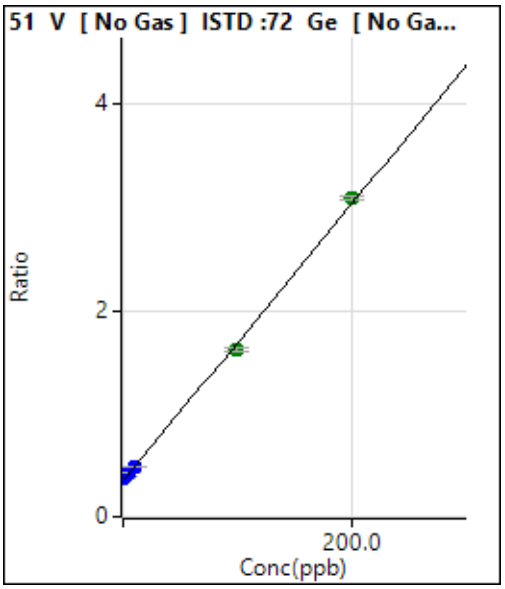
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 10.00 | 0.0000 | P | 173.2 | |
| 2 | ☐ | 2.000 | 2.454 | 543.36 | 0.0007 | P | 8.7 | 22.7 |
| 3 | ☐ | 5.000 | 4.629 | 1013.39 | 0.0013 | P | 7.7 | -7.4 |
| 4 | ☐ | 10.000 | 9.989 | 2153.54 | 0.0028 | P | 9.8 | -0.1 |
| 5 | ☐ | 100.000 | 93.218 | 19263.64 | 0.0260 | P | 3.7 | -6.8 |
| 6 | ☐ | 200.000 | 203.396 | 41087.74 | 0.0568 | P | 1.1 | 1.7 |

y = 2.7910E-004 * x + 1.2735E-005
R = 0.9992
DL = 0.2371 ppb
BEC = 0.04563 ppb

Weight: <None>
Min Conc: <None>

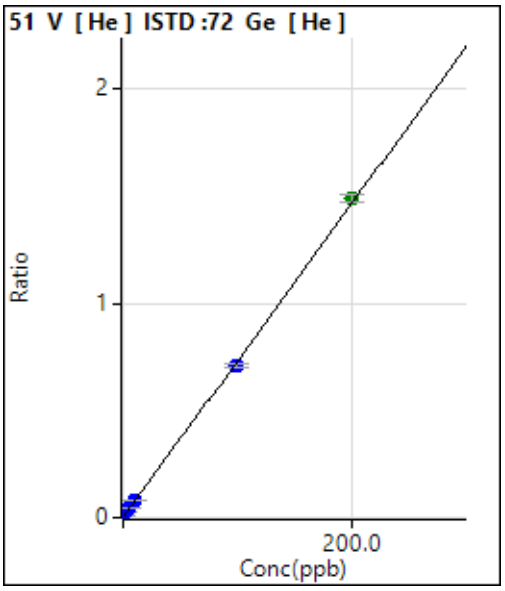



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1010954.48 | 0.3652 | P | 0.5 | |
| 2 | ☐ | 2.000 | 1.938 | 1080650.24 | 0.3912 | P | 1.3 | -3.1 |
| 3 | ☐ | 5.000 | 4.355 | 1161135.25 | 0.4236 | P | 1.4 | -12.9 |
| 4 | ☐ | 10.000 | 8.883 | 1322173.21 | 0.4844 | P | 1.4 | -11.2 |
| 5 | ☐ | 100.000 | 93.506 | 4249706.16 | 1.6193 | A | 1.3 | -6.5 |
| 6 | ☐ | 200.000 | 203.320 | 7868543.93 | 3.0921 | A | 0.8 | 1.7 |

y = 0.0134 * x + 0.3652
R = 0.9993
DL = 0.4177 ppb
BEC = 27.23 ppb

Weight: <None>
Min Conc: <None>

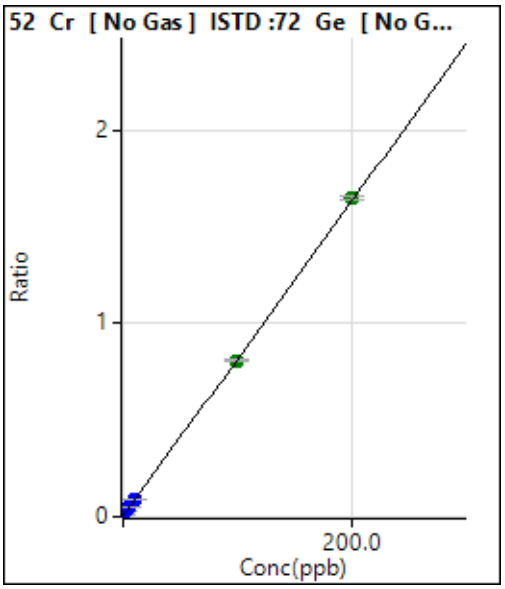
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7209.69 | 0.0092 | P | 2.4 | |
| 2 | ☐ | 2.000 | 1.919 | 18096.30 | 0.0232 | P | 2.3 | -4.0 |
| 3 | ☐ | 5.000 | 4.763 | 34195.37 | 0.0440 | P | 1.8 | -4.7 |
| 4 | ☐ | 10.000 | 9.839 | 62395.05 | 0.0811 | P | 2.8 | -1.6 |
| 5 | ☐ | 100.000 | 95.172 | 521843.03 | 0.7052 | P | 2.4 | -4.8 |
| 6 | ☐ | 200.000 | 202.429 | 1077786.55 | 1.4895 | A | 2.4 | 1.2 |

y = 0.0073 * x + 0.0092
R = 0.9996
DL = 0.08909 ppb
BEC = 1.259 ppb

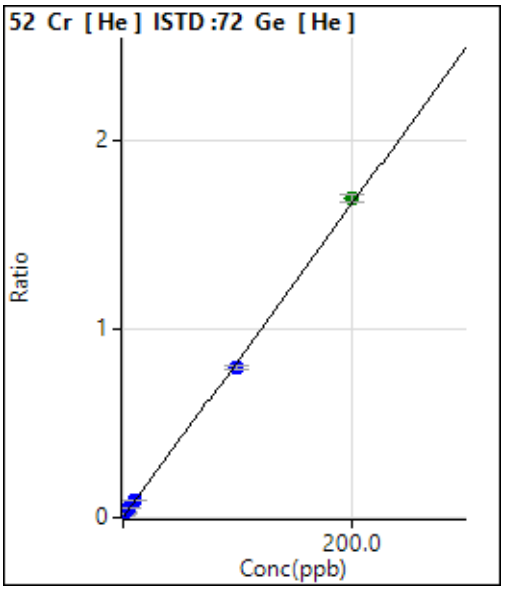
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 34286.10 | 0.0124 | P | 1.8 | |
| 2 | ☐ | 2.000 | 1.958 | 78226.70 | 0.0283 | P | 2.6 | -2.1 |
| 3 | ☐ | 5.000 | 5.009 | 145663.94 | 0.0531 | P | 3.9 | 0.2 |
| 4 | ☐ | 10.000 | 9.909 | 253873.25 | 0.0930 | P | 1.7 | -0.9 |
| 5 | ☐ | 100.000 | 97.835 | 2121565.39 | 0.8084 | A | 0.9 | -2.2 |
| 6 | ☐ | 200.000 | 201.087 | 4195007.34 | 1.6485 | A | 0.6 | 0.5 |

y = 0.0081 * x + 0.0124
R = 0.9999
DL = 0.08146 ppb
BEC = 1.522 ppb

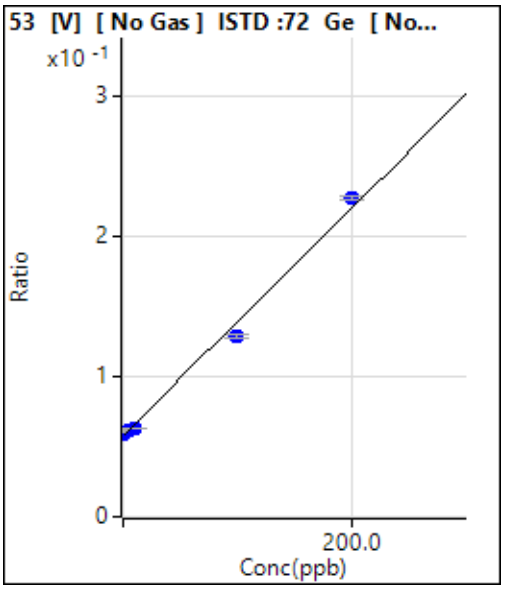
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7608.88 | 0.0097 | P | 5.4 | |
| 2 | ☐ | 2.000 | 1.911 | 19941.23 | 0.0256 | P | 1.7 | -4.5 |
| 3 | ☐ | 5.000 | 4.811 | 38614.11 | 0.0497 | P | 1.2 | -3.8 |
| 4 | ☐ | 10.000 | 9.993 | 71366.91 | 0.0928 | P | 1.5 | -0.1 |
| 5 | ☐ | 100.000 | 94.508 | 588850.85 | 0.7957 | P | 2.1 | -5.5 |
| 6 | ☐ | 200.000 | 202.752 | 1227189.22 | 1.6959 | A | 2.3 | 1.4 |

y = 0.0083 * x + 0.0097
R = 0.9995
DL = 0.1888 ppb
BEC = 1.168 ppb

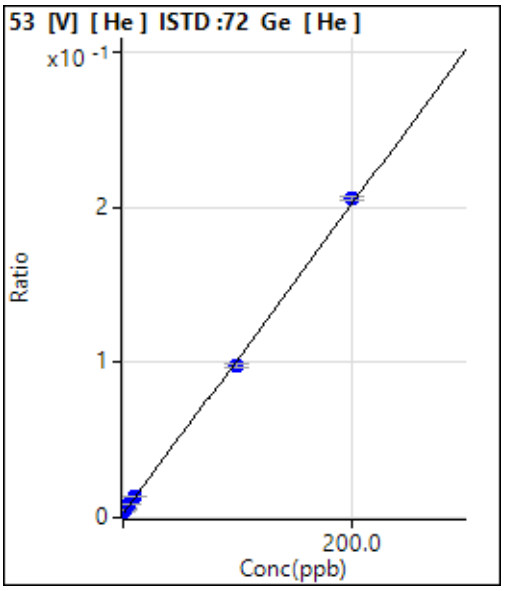
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 164036.67 | 0.0593 | P | 0.7 | |
| 2 | ☐ | 2.000 | 1.732 | 167571.12 | 0.0607 | P | 1.2 | -13.4 |
| 3 | ☐ | 5.000 | 2.193 | 167297.96 | 0.0610 | P | 1.2 | -56.1 |
| 4 | ☐ | 10.000 | 5.018 | 172871.46 | 0.0633 | P | 1.1 | -49.8 |
| 5 | ☐ | 100.000 | 85.756 | 337990.58 | 0.1288 | P | 1.4 | -14.2 |
| 6 | ☐ | 200.000 | 207.444 | 578785.28 | 0.2274 | P | 1.3 | 3.7 |

y = 8.1073E-004 * x + 0.0593
R = 0.9966
DL = 1.644 ppb
BEC = 73.1 ppb

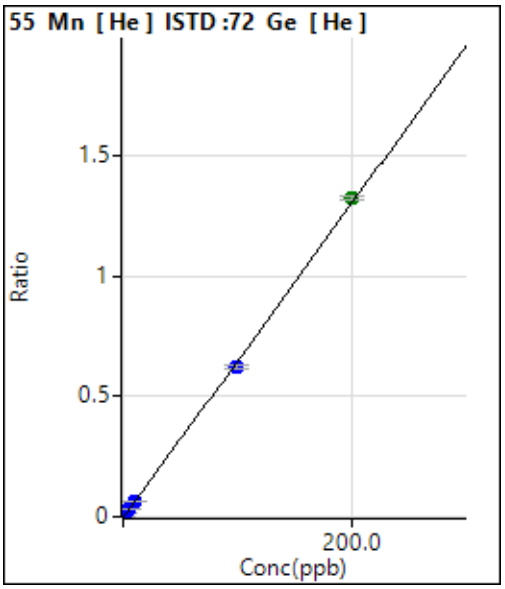
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2793.66 | 0.0036 | P | 5.9 | |
| 2 | ☐ | 2.000 | 1.858 | 4217.40 | 0.0054 | P | 6.4 | -7.1 |
| 3 | ☐ | 5.000 | 4.727 | 6424.93 | 0.0083 | P | 4.7 | -5.5 |
| 4 | ☐ | 10.000 | 9.708 | 10177.27 | 0.0132 | P | 2.1 | -2.9 |
| 5 | ☐ | 100.000 | 94.230 | 72100.88 | 0.0974 | P | 2.8 | -5.8 |
| 6 | ☐ | 200.000 | 202.908 | 148836.68 | 0.2057 | P | 1.5 | 1.5 |

y = 9.9607E-004 * x + 0.0036
R = 0.9994
DL = 0.6353 ppb
BEC = 3.58 ppb

Weight: <None>
Min Conc: <None>

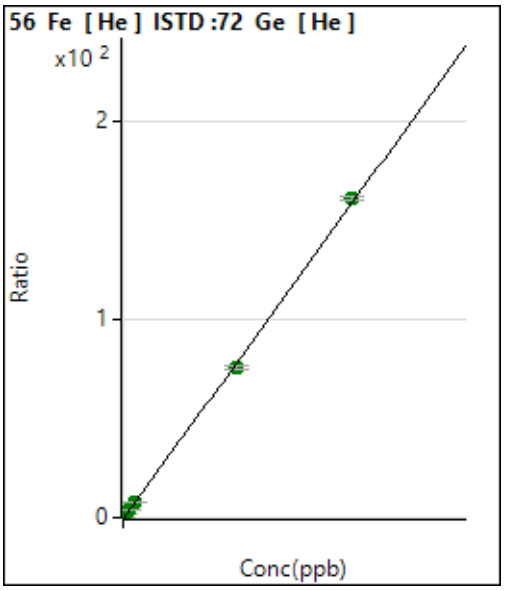



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 776.70 | 0.0010 | P | 11.6 | |
| 2 | ☐ | 2.000 | 1.878 | 10347.38 | 0.0133 | P | 5.0 | -6.1 |
| 3 | ☐ | 5.000 | 4.784 | 25089.77 | 0.0323 | P | 3.8 | -4.3 |
| 4 | ☐ | 10.000 | 9.943 | 50810.52 | 0.0661 | P | 3.3 | -0.6 |
| 5 | ☐ | 100.000 | 95.066 | 461277.27 | 0.6233 | P | 1.9 | -4.9 |
| 6 | ☐ | 200.000 | 202.476 | 959867.75 | 1.3264 | A | 1.3 | 1.2 |

y = 0.0065 * x + 9.9207E-004
R = 0.9996
DL = 0.05289 ppb
BEC = 0.1515 ppb

Weight: <None>
Min Conc: <None>

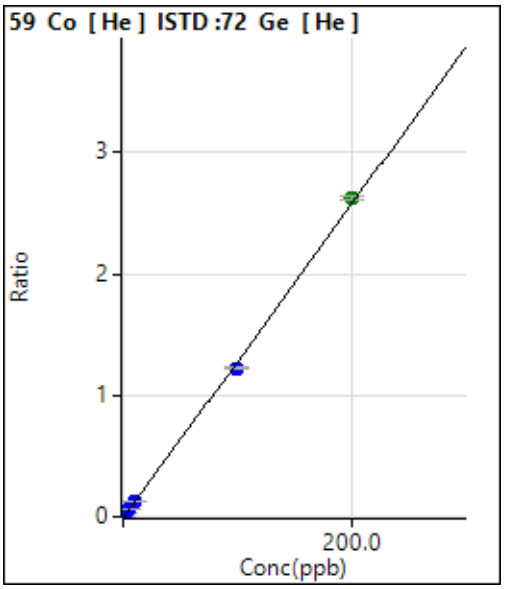
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 19894.62 | 0.0254 | P | 1.6 | |
| 2 | ☐ | 200.000 | 189.312 | 1196572.38 | 1.5366 | A | 2.4 | -5.3 |
| 3 | ☐ | 500.000 | 485.044 | 3026576.73 | 3.8974 | A | 1.8 | -3.0 |
| 4 | ☐ | 1000.000 | 995.855 | 6132018.24 | 7.9751 | A | 2.3 | -0.4 |
| 5 | ☐ | 10000.00 | 9544.277 | 56402962.49 | 76.2156 | A | 2.2 | -4.6 |
| 6 | ☐ | 20000.00 | 20228.54 | 116870611.5 | 161.506 | A | 1.5 | 1.1 |

y = 0.0080 * x + 0.0254
R = 0.9996
DL = 0.1481 ppb
BEC = 3.182 ppb

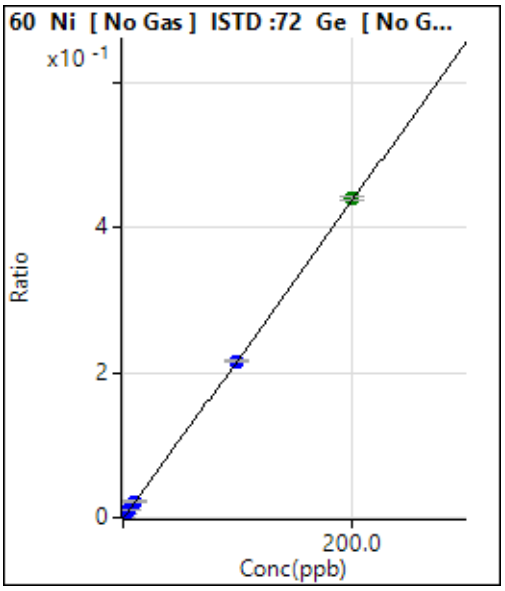
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 320.01 | 0.0004 | P | 8.8 | |
| 2 | ☐ | 2.000 | 1.884 | 19307.12 | 0.0248 | P | 2.7 | -5.8 |
| 3 | ☐ | 5.000 | 4.849 | 49050.62 | 0.0632 | P | 0.8 | -3.0 |
| 4 | ☐ | 10.000 | 9.818 | 98006.73 | 0.1275 | P | 3.4 | -1.8 |
| 5 | ☐ | 100.000 | 94.319 | 903636.13 | 1.2211 | P | 1.6 | -5.7 |
| 6 | ☐ | 200.000 | 202.855 | 1900057.73 | 2.6258 | A | 1.4 | 1.4 |

y = 0.0129 * x + 4.0872E-004
R = 0.9994
DL = 0.008384 ppb
BEC = 0.03158 ppb

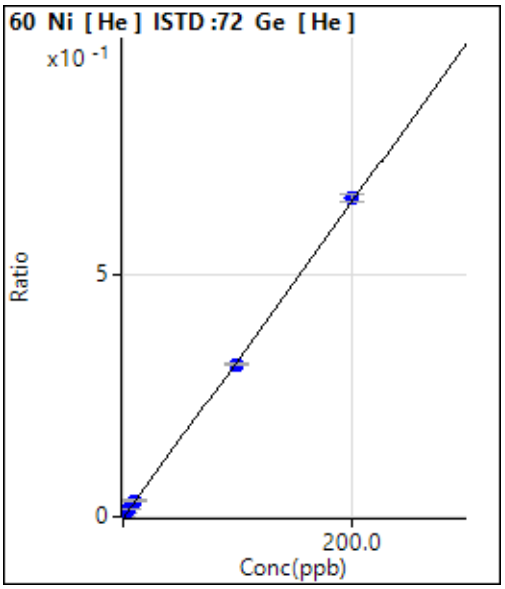
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 866.71 | 0.0003 | P | 9.3 | |
| 2 | ☐ | 2.000 | 2.008 | 13033.04 | 0.0047 | P | 1.3 | 0.4 |
| 3 | ☐ | 5.000 | 5.064 | 31312.63 | 0.0114 | P | 3.4 | 1.3 |
| 4 | ☐ | 10.000 | 10.130 | 61523.56 | 0.0225 | P | 1.3 | 1.3 |
| 5 | ☐ | 100.000 | 98.261 | 566638.22 | 0.2159 | P | 1.6 | -1.7 |
| 6 | ☐ | 200.000 | 200.861 | 1122317.56 | 0.4410 | A | 0.9 | 0.4 |

y = 0.0022 * x + 3.1313E-004
R = 0.9999
DL = 0.03995 ppb
BEC = 0.1427 ppb

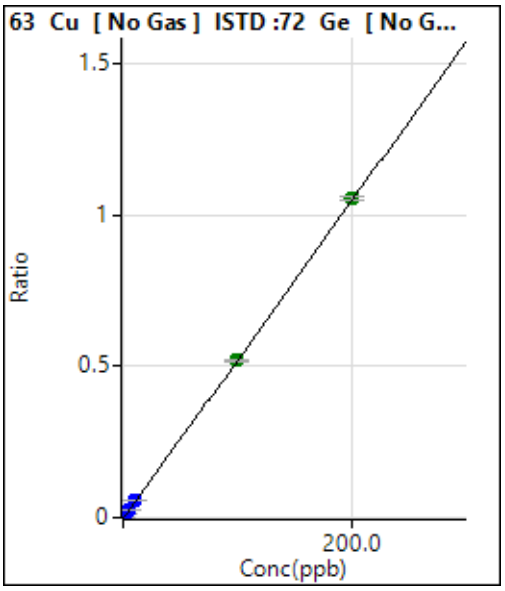
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 263.34 | 0.0003 | P | 12.9 | |
| 2 | ☐ | 2.000 | 1.952 | 5237.76 | 0.0067 | P | 2.7 | -2.4 |
| 3 | ☐ | 5.000 | 4.915 | 12756.10 | 0.0164 | P | 0.8 | -1.7 |
| 4 | ☐ | 10.000 | 10.055 | 25567.34 | 0.0333 | P | 5.7 | 0.5 |
| 5 | ☐ | 100.000 | 96.516 | 234079.81 | 0.3163 | P | 1.9 | -3.5 |
| 6 | ☐ | 200.000 | 201.742 | 478169.86 | 0.6608 | P | 2.4 | 0.9 |

y = 0.0033 * x + 3.3611E-004
R = 0.9998
DL = 0.03985 ppb
BEC = 0.1027 ppb

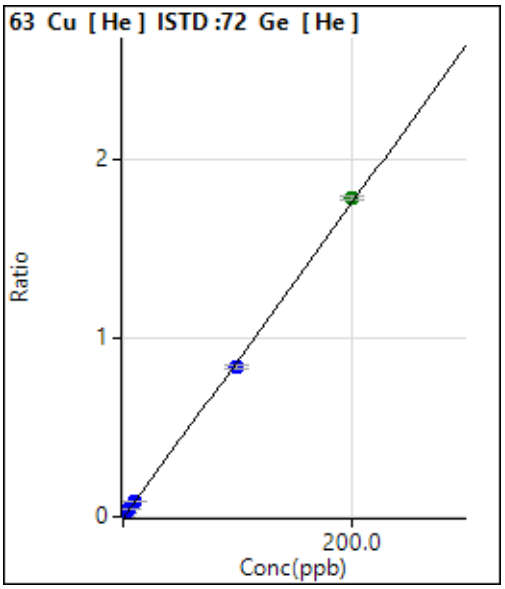
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1626.79 | 0.0006 | P | 4.9 | |
| 2 | ☐ | 2.000 | 2.049 | 31429.43 | 0.0114 | P | 2.2 | 2.4 |
| 3 | ☐ | 5.000 | 5.130 | 75661.23 | 0.0276 | P | 2.4 | 2.6 |
| 4 | ☐ | 10.000 | 10.296 | 149626.46 | 0.0548 | P | 1.1 | 3.0 |
| 5 | ☐ | 100.000 | 98.696 | 1365690.09 | 0.5204 | A | 1.1 | -1.3 |
| 6 | ☐ | 200.000 | 200.634 | 2690477.04 | 1.0573 | A | 1.3 | 0.3 |

y = 0.0053 * x + 5.8772E-004
R = 1.0000
DL = 0.01655 ppb
BEC = 0.1116 ppb

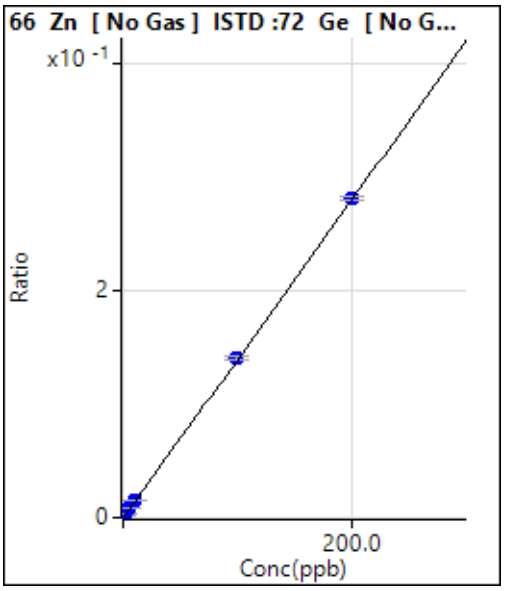
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 600.02 | 0.0008 | P | 9.9 | |
| 2 | ☐ | 2.000 | 1.975 | 14180.86 | 0.0182 | P | 4.3 | -1.3 |
| 3 | ☐ | 5.000 | 4.975 | 34727.63 | 0.0447 | P | 1.8 | -0.5 |
| 4 | ☐ | 10.000 | 10.086 | 69106.74 | 0.0899 | P | 1.3 | 0.9 |
| 5 | ☐ | 100.000 | 95.361 | 624093.85 | 0.8433 | P | 2.0 | -4.6 |
| 6 | ☐ | 200.000 | 202.316 | 1294061.54 | 1.7883 | A | 1.6 | 1.2 |

y = 0.0088 * x + 7.6598E-004
R = 0.9996
DL = 0.02568 ppb
BEC = 0.08669 ppb

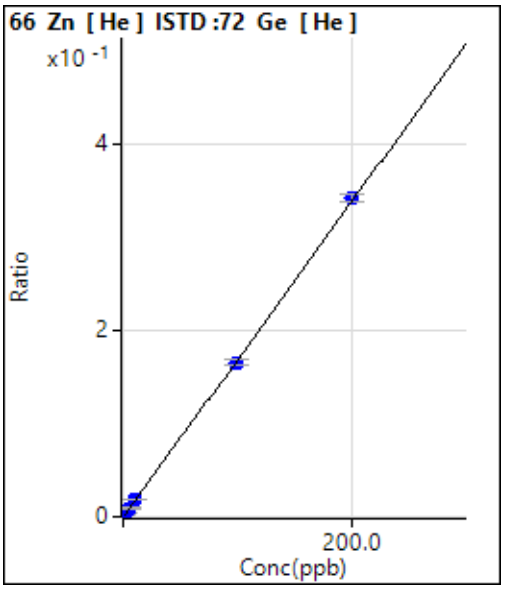
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2456.93 | 0.0009 | P | 5.3 | |
| 2 | ☐ | 2.000 | 2.026 | 10294.06 | 0.0037 | P | 4.1 | 1.3 |
| 3 | ☐ | 5.000 | 5.306 | 22809.26 | 0.0083 | P | 2.9 | 6.1 |
| 4 | ☐ | 10.000 | 10.338 | 41957.74 | 0.0154 | P | 2.6 | 3.4 |
| 5 | ☐ | 100.000 | 99.672 | 368847.17 | 0.1405 | P | 1.8 | -0.3 |
| 6 | ☐ | 200.000 | 200.139 | 715848.79 | 0.2813 | P | 1.0 | 0.1 |

y = 0.0014 * x + 8.8770E-004
R = 1.0000
DL = 0.1011 ppb
BEC = 0.6336 ppb

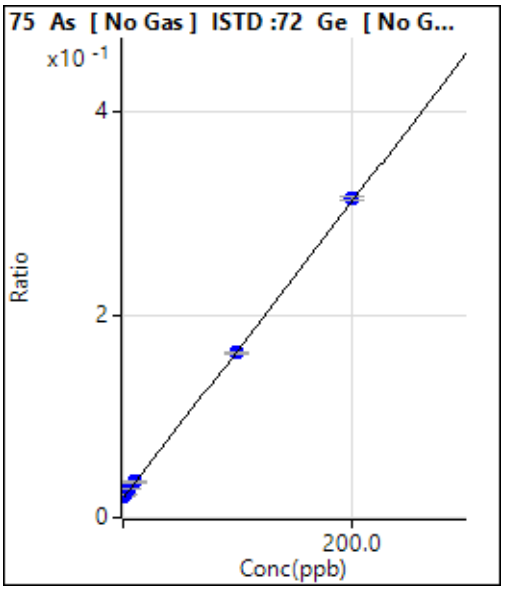
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 906.71 | 0.0012 | P | 7.6 | |
| 2 | ☐ | 2.000 | 2.012 | 3553.88 | 0.0046 | P | 3.1 | 0.6 |
| 3 | ☐ | 5.000 | 4.753 | 7145.32 | 0.0092 | P | 1.6 | -4.9 |
| 4 | ☐ | 10.000 | 9.920 | 13800.40 | 0.0179 | P | 2.4 | -0.8 |
| 5 | ☐ | 100.000 | 97.220 | 122634.62 | 0.1657 | P | 3.2 | -2.8 |
| 6 | ☐ | 200.000 | 201.400 | 247505.45 | 0.3420 | P | 2.0 | 0.7 |

y = 0.0017 * x + 0.0012
R = 0.9999
DL = 0.1563 ppb
BEC = 0.684 ppb

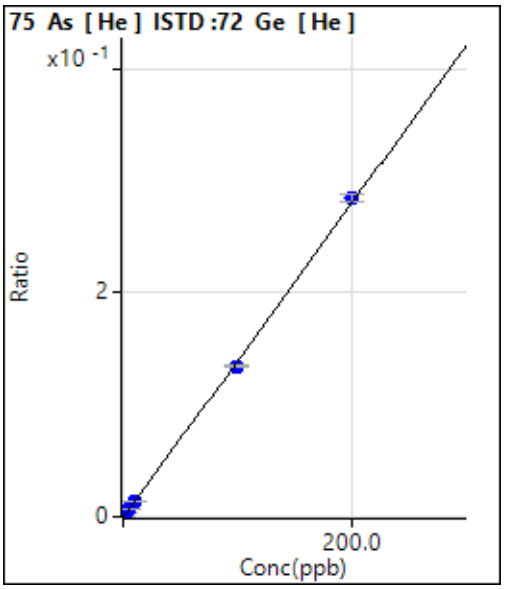
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 57340.72 | 0.0207 | P | 0.5 | |
| 2 | ☐ | 2.000 | 2.035 | 65440.12 | 0.0237 | P | 0.3 | 1.7 |
| 3 | ☐ | 5.000 | 5.200 | 77617.38 | 0.0283 | P | 1.1 | 4.0 |
| 4 | ☐ | 10.000 | 10.000 | 96456.09 | 0.0353 | P | 2.5 | 0.0 |
| 5 | ☐ | 100.000 | 97.055 | 426818.08 | 0.1626 | P | 1.6 | -2.9 |
| 6 | ☐ | 200.000 | 201.467 | 802394.62 | 0.3153 | P | 1.6 | 0.7 |

y = 0.0015 * x + 0.0207
R = 0.9998
DL = 0.2331 ppb
BEC = 14.17 ppb

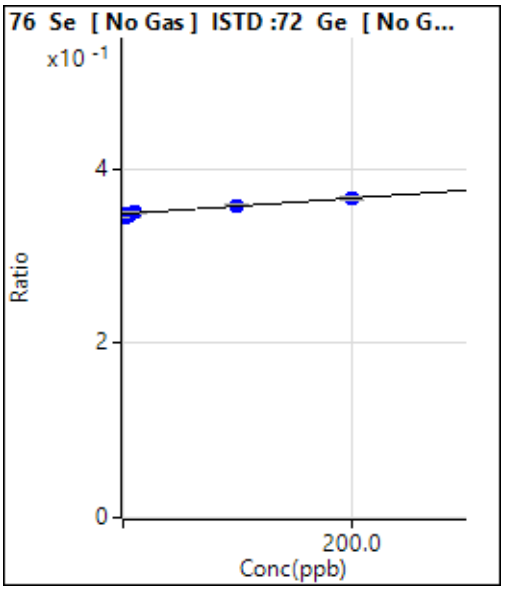
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 316.67 | 0.0004 | P | 7.2 | |
| 2 | ☐ | 2.000 | 1.966 | 2464.68 | 0.0032 | P | 3.0 | -1.7 |
| 3 | ☐ | 5.000 | 4.843 | 5595.62 | 0.0072 | P | 2.4 | -3.1 |
| 4 | ☐ | 10.000 | 9.642 | 10723.13 | 0.0139 | P | 2.2 | -3.6 |
| 5 | ☐ | 100.000 | 95.160 | 99197.46 | 0.1341 | P | 1.0 | -4.8 |
| 6 | ☐ | 200.000 | 202.442 | 206029.47 | 0.2847 | P | 2.4 | 1.2 |

y = 0.0014 * x + 4.0426E-004
R = 0.9996
DL = 0.06258 ppb
BEC = 0.2878 ppb

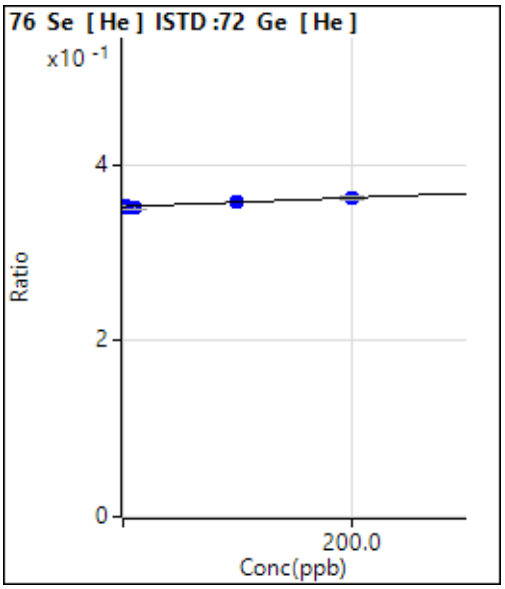
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 964449.83 | 0.3484 | P | 0.7 | |
| 2 | ☐ | 2.000 | -34.153 | 953861.89 | 0.3453 | P | 0.1 | -1807.7 |
| 3 | ☐ | 5.000 | -12.512 | 951751.63 | 0.3473 | P | 1.2 | -350.2 |
| 4 | ☐ | 10.000 | 22.069 | 956605.06 | 0.3504 | P | 0.7 | 120.7 |
| 5 | ☐ | 100.000 | 106.437 | 939797.64 | 0.3581 | P | 0.6 | 6.4 |
| 6 | ☐ | 200.000 | 196.977 | 932289.20 | 0.3664 | P | 1.0 | -1.5 |

y = 9.1040E-005 * x + 0.3484
R = 0.9813
DL = 76.06 ppb
BEC = 3827 ppb

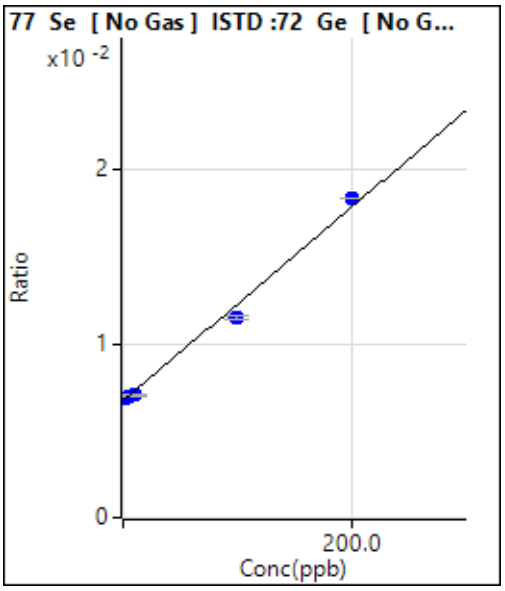
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 276120.31 | 0.3525 | P | 0.7 | |
| 2 | ☐ | 2.000 | 2.937 | 274652.09 | 0.3527 | P | 0.6 | 46.9 |
| 3 | ☐ | 5.000 | -19.736 | 272962.69 | 0.3515 | P | 0.2 | -494.7 |
| 4 | ☐ | 10.000 | -14.902 | 270475.83 | 0.3518 | P | 1.2 | -249.0 |
| 5 | ☐ | 100.000 | 116.662 | 265320.74 | 0.3586 | P | 0.2 | 16.7 |
| 6 | ☐ | 200.000 | 193.523 | 262331.56 | 0.3625 | P | 1.0 | -3.2 |

y = 5.1530E-005 * x + 0.3525
R = 0.9846
DL = 135.4 ppb
BEC = 6841 ppb

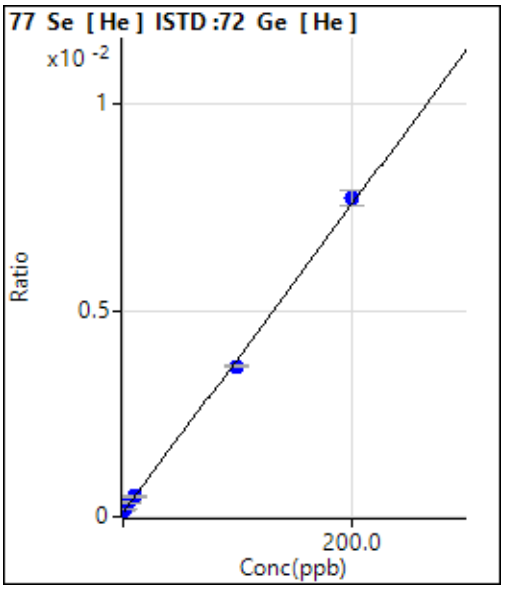
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 18893.33 | 0.0068 | P | 1.3 | |
| 2 | ☐ | 2.000 | 0.484 | 18926.85 | 0.0069 | P | 2.9 | -75.8 |
| 3 | ☐ | 5.000 | 3.393 | 19223.86 | 0.0070 | P | 1.9 | -32.1 |
| 4 | ☐ | 10.000 | 3.949 | 19230.54 | 0.0070 | P | 0.6 | -60.5 |
| 5 | ☐ | 100.000 | 84.919 | 30290.71 | 0.0115 | P | 2.3 | -15.1 |
| 6 | ☐ | 200.000 | 207.898 | 46760.28 | 0.0184 | P | 0.5 | 3.9 |

y = 5.5556E-005 * x + 0.0068
R = 0.9963
DL = 4.645 ppb
BEC = 122.9 ppb

Weight: <None>
Min Conc: <None>

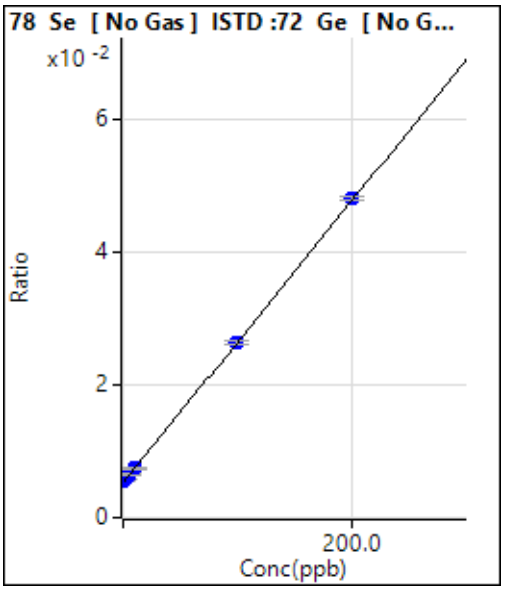



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 113.33 | 0.0001 | P | 4.8 | |
| 2 | ☐ | 2.000 | 1.171 | 146.67 | 0.0002 | P | 21.0 | -41.4 |
| 3 | ☐ | 5.000 | 5.674 | 276.68 | 0.0004 | P | 9.6 | 13.5 |
| 4 | ☐ | 10.000 | 9.252 | 376.68 | 0.0005 | P | 17.0 | -7.5 |
| 5 | ☐ | 100.000 | 93.540 | 2690.32 | 0.0036 | P | 1.4 | -6.5 |
| 6 | ☐ | 200.000 | 203.259 | 5594.58 | 0.0077 | P | 4.4 | 1.6 |

y = 3.7321E-005 * x + 1.4469E-004
R = 0.9993
DL = 0.5551 ppb
BEC = 3.877 ppb

Weight: <None>
Min Conc: <None>

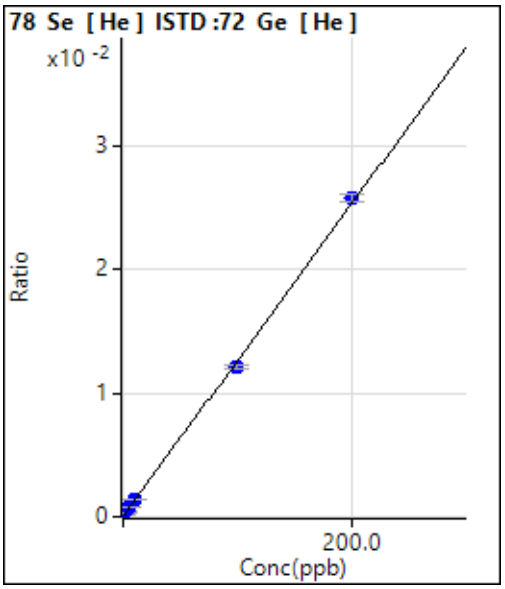
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 15248.81 | 0.0055 | P | 1.6 | |
| 2 | ☐ | 2.000 | 1.431 | 16053.06 | 0.0058 | P | 2.2 | -28.5 |
| 3 | ☐ | 5.000 | 4.536 | 17731.87 | 0.0065 | P | 3.1 | -9.3 |
| 4 | ☐ | 10.000 | 9.201 | 20355.46 | 0.0075 | P | 4.4 | -8.0 |
| 5 | ☐ | 100.000 | 98.554 | 69225.47 | 0.0264 | P | 1.5 | -1.4 |
| 6 | ☐ | 200.000 | 200.780 | 122204.65 | 0.0480 | P | 1.2 | 0.4 |

y = 2.1174E-004 * x + 0.0055
R = 1.0000
DL = 1.21 ppb
BEC = 26.02 ppb

Weight: <None>
Min Conc: <None>

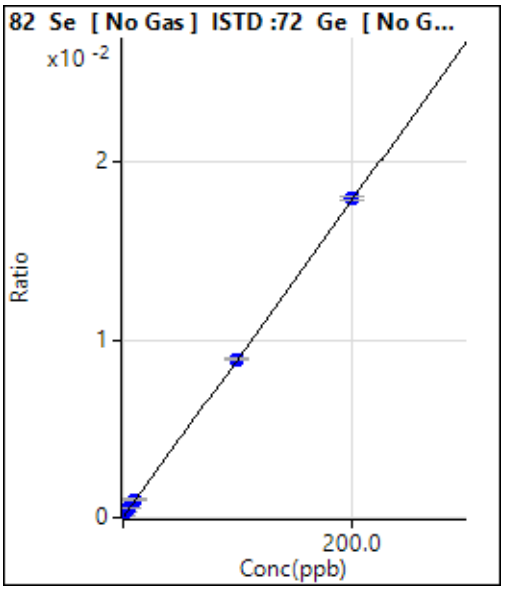



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 134.67 | 0.0002 | P | 9.2 | |
| 2 | ☐ | 2.000 | 1.723 | 303.34 | 0.0004 | P | 16.3 | -13.9 |
| 3 | ☐ | 5.000 | 4.697 | 594.01 | 0.0008 | P | 7.0 | -6.1 |
| 4 | ☐ | 10.000 | 9.783 | 1082.04 | 0.0014 | P | 5.0 | -2.2 |
| 5 | ☐ | 100.000 | 94.578 | 8966.30 | 0.0121 | P | 2.7 | -5.4 |
| 6 | ☐ | 200.000 | 202.732 | 18650.09 | 0.0258 | P | 2.3 | 1.4 |

y = 1.2629E-004 * x + 1.7189E-004
R = 0.9995
DL = 0.3746 ppb
BEC = 1.361 ppb

Weight: <None>
Min Conc: <None>

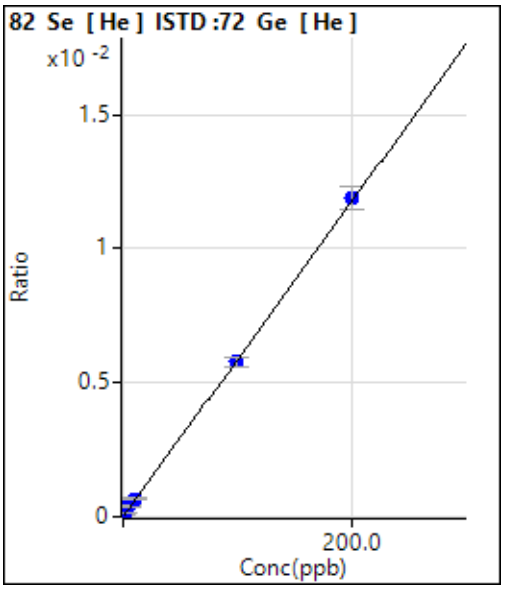
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 306.68 | 0.0001 | P | 16.5 | |
| 2 | ☐ | 2.000 | 1.873 | 766.70 | 0.0003 | P | 4.0 | -6.3 |
| 3 | ☐ | 5.000 | 5.107 | 1550.12 | 0.0006 | P | 4.5 | 2.1 |
| 4 | ☐ | 10.000 | 10.196 | 2780.35 | 0.0010 | P | 9.0 | 2.0 |
| 5 | ☐ | 100.000 | 98.931 | 23413.94 | 0.0089 | P | 2.0 | -1.1 |
| 6 | ☐ | 200.000 | 200.523 | 45723.90 | 0.0180 | P | 1.6 | 0.3 |

y = 8.9057E-005 * x + 1.1076E-004
R = 1.0000
DL = 0.6149 ppb
BEC = 1.244 ppb

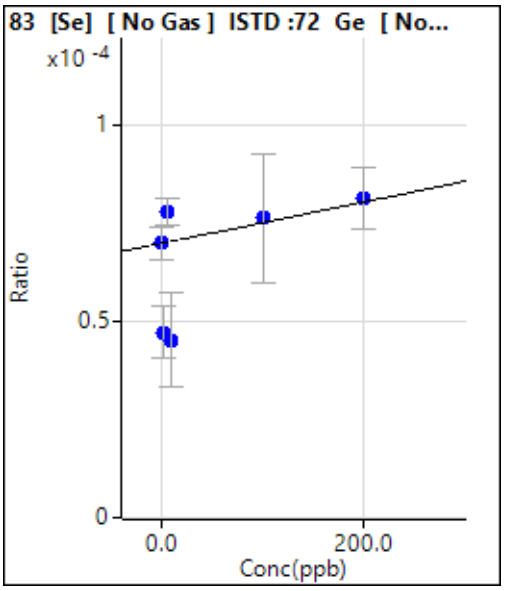
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 50.00 | 0.0001 | P | 34.9 | |
| 2 | ☐ | 2.000 | 1.681 | 126.67 | 0.0002 | P | 16.7 | -16.0 |
| 3 | ☐ | 5.000 | 6.072 | 326.68 | 0.0004 | P | 20.0 | 21.4 |
| 4 | ☐ | 10.000 | 10.420 | 520.02 | 0.0007 | P | 17.8 | 4.2 |
| 5 | ☐ | 100.000 | 97.308 | 4280.75 | 0.0058 | P | 6.3 | -2.7 |
| 6 | ☐ | 200.000 | 201.301 | 8609.59 | 0.0119 | P | 7.0 | 0.7 |

y = 5.8789E-005 * x + 6.3889E-005
R = 0.9998
DL = 1.137 ppb
BEC = 1.087 ppb

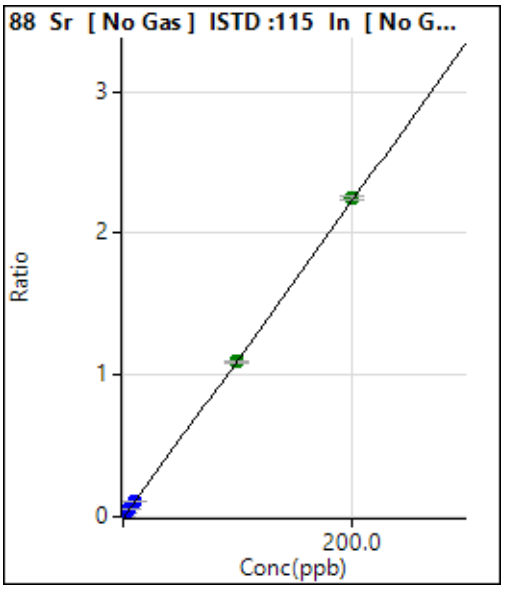
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 193.34 | 0.0001 | P | 12.2 | |
| 2 | ☐ | 2.000 | -431.078 | 130.00 | 0.0000 | P | 28.0 | -21653. |
| 3 | ☐ | 5.000 | 150.529 | 213.34 | 0.0001 | P | 9.1 | 2910.6 |
| 4 | ☐ | 10.000 | -466.543 | 123.33 | 0.0000 | P | 52.8 | -4765.4 |
| 5 | ☐ | 100.000 | 118.247 | 200.00 | 0.0001 | P | 42.7 | 18.2 |
| 6 | ☐ | 200.000 | 215.396 | 206.67 | 0.0001 | P | 19.7 | 7.7 |

y = 5.2823E-008 * x + 6.9859E-005
R = 0.5821
DL = 482.1 ppb
BEC = 1323 ppb

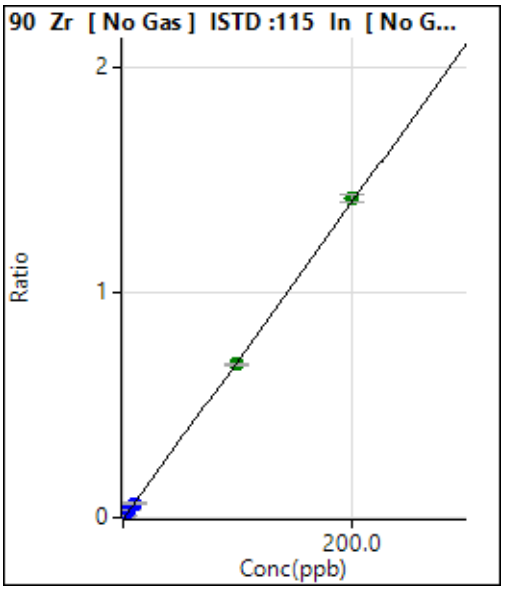
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2050.19 | 0.0006 | P | 8.6 | |
| 2 | ☐ | 2.000 | 1.968 | 81035.10 | 0.0226 | P | 1.6 | -1.6 |
| 3 | ☐ | 5.000 | 4.962 | 200779.89 | 0.0560 | P | 3.4 | -0.8 |
| 4 | ☐ | 10.000 | 9.858 | 398184.94 | 0.1108 | P | 1.7 | -1.4 |
| 5 | ☐ | 100.000 | 97.569 | 3725471.09 | 1.0912 | A | 2.1 | -2.4 |
| 6 | ☐ | 200.000 | 201.224 | 7444901.76 | 2.2499 | A | 1.4 | 0.6 |

y = 0.0112 * x + 5.7259E-004
R = 0.9999
DL = 0.01323 ppb
BEC = 0.05122 ppb

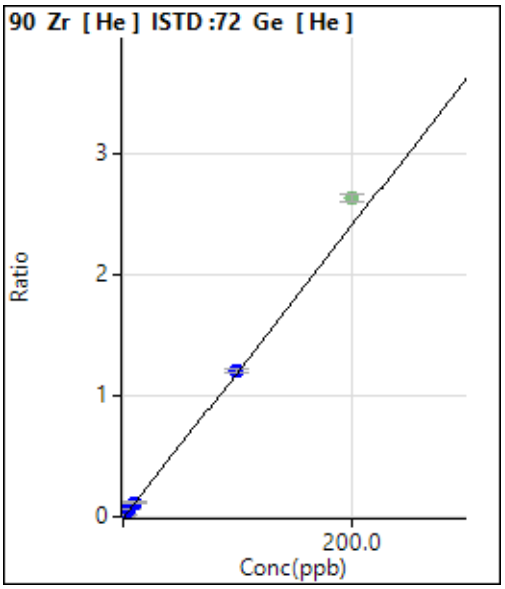
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1160.07 | 0.0003 | P | 2.5 | |
| 2 | ☐ | 2.000 | 1.612 | 41905.50 | 0.0117 | P | 3.8 | -19.4 |
| 3 | ☐ | 5.000 | 4.333 | 110428.43 | 0.0308 | P | 2.1 | -13.3 |
| 4 | ☐ | 10.000 | 9.034 | 229720.13 | 0.0639 | P | 1.5 | -9.7 |
| 5 | ☐ | 100.000 | 96.694 | 2324542.26 | 0.6809 | A | 2.2 | -3.3 |
| 6 | ☐ | 200.000 | 201.722 | 4698977.22 | 1.4201 | A | 1.9 | 0.9 |

y = 0.0070 * x + 3.2394E-004
R = 0.9998
DL = 0.003504 ppb
BEC = 0.04603 ppb

Weight: <None>
Min Conc: <None>

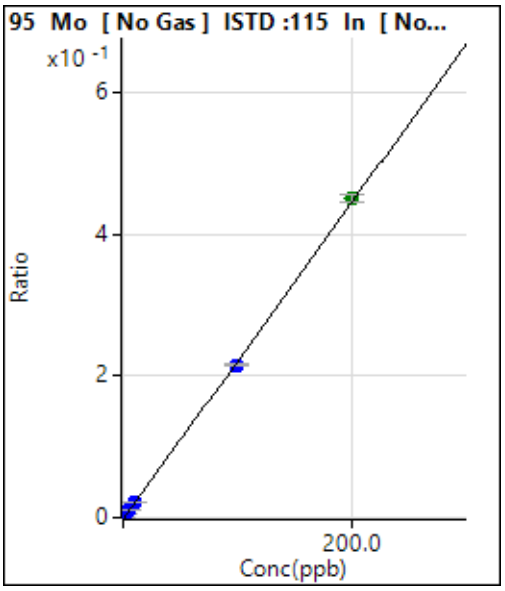



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1343.43 | 0.0017 | P | 10.7 | |
| 2 | ☐ | 2.000 | 1.668 | 17021.02 | 0.0219 | P | 1.2 | -16.6 |
| 3 | ☐ | 5.000 | 4.578 | 44252.81 | 0.0570 | P | 1.7 | -8.4 |
| 4 | ☐ | 10.000 | 9.688 | 91260.17 | 0.1187 | P | 2.0 | -3.1 |
| 5 | ☐ | 100.000 | 100.059 | 895303.56 | 1.2098 | P | 2.6 | 0.1 |
| 6 | ☑ | 200.000 | | 1904685.70 | 2.6322 | A | 2.4 | |

y = 0.0121 * x + 0.0017
R = 1.0000
DL = 0.04578 ppb
BEC = 0.1421 ppb

Weight: <None>
Min Conc: <None>

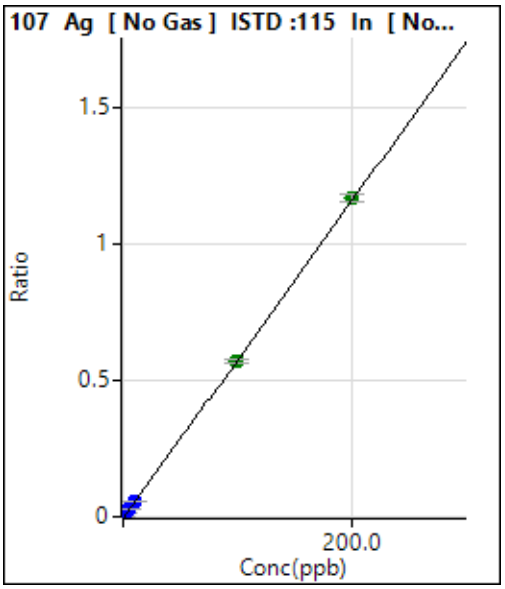
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 233.34 | 0.0001 | P | 27.6 | |
| 2 | ☐ | 2.000 | 1.858 | 15132.06 | 0.0042 | P | 3.4 | -7.1 |
| 3 | ☐ | 5.000 | 4.755 | 38274.67 | 0.0107 | P | 3.6 | -4.9 |
| 4 | ☐ | 10.000 | 9.406 | 75722.19 | 0.0211 | P | 2.4 | -5.9 |
| 5 | ☐ | 100.000 | 96.579 | 736414.84 | 0.2157 | P | 2.3 | -3.4 |
| 6 | ☐ | 200.000 | 201.748 | 1490733.83 | 0.4505 | A | 2.2 | 0.9 |

y = 0.0022 * x + 6.5128E-005
R = 0.9998
DL = 0.0242 ppb
BEC = 0.02917 ppb

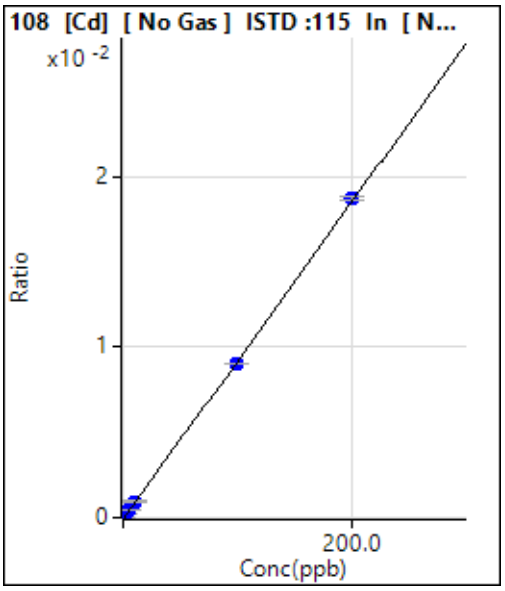
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 796.70 | 0.0002 | P | 12.6 | |
| 2 | ☐ | 2.000 | 1.995 | 42544.71 | 0.0118 | P | 3.3 | -0.2 |
| 3 | ☐ | 5.000 | 5.072 | 106669.91 | 0.0298 | P | 2.2 | 1.4 |
| 4 | ☐ | 10.000 | 10.013 | 210517.69 | 0.0586 | P | 2.7 | 0.1 |
| 5 | ☐ | 100.000 | 98.055 | 1951426.84 | 0.5716 | A | 2.0 | -1.9 |
| 6 | ☐ | 200.000 | 200.970 | 3875701.51 | 1.1713 | A | 1.9 | 0.5 |

y = 0.0058 * x + 2.2243E-004
R = 0.9999
DL = 0.01448 ppb
BEC = 0.03817 ppb

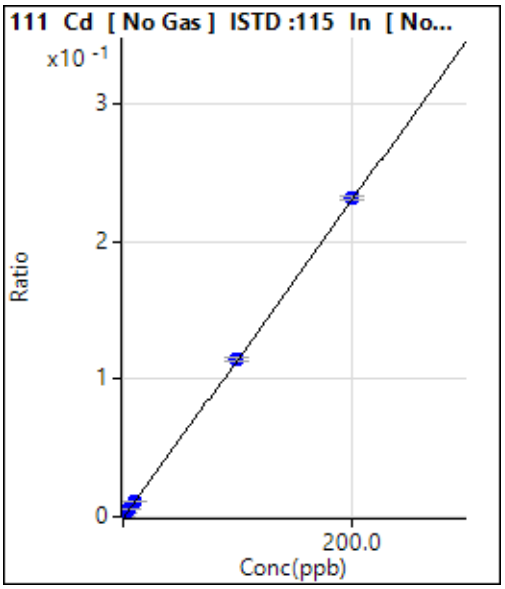
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 10.00 | 0.0000 | P | 0.3 | |
| 2 | ☐ | 2.000 | 2.067 | 700.03 | 0.0002 | P | 18.7 | 3.3 |
| 3 | ☐ | 5.000 | 5.152 | 1726.81 | 0.0005 | P | 5.2 | 3.0 |
| 4 | ☐ | 10.000 | 10.151 | 3403.84 | 0.0009 | P | 3.3 | 1.5 |
| 5 | ☐ | 100.000 | 97.092 | 30835.77 | 0.0090 | P | 0.4 | -2.9 |
| 6 | ☐ | 200.000 | 201.442 | 61997.17 | 0.0187 | P | 1.8 | 0.7 |

y = 9.2995E-005 * x + 2.7925E-006
R = 0.9998
DL = 0.0002487 ppb
BEC = 0.03003 ppb

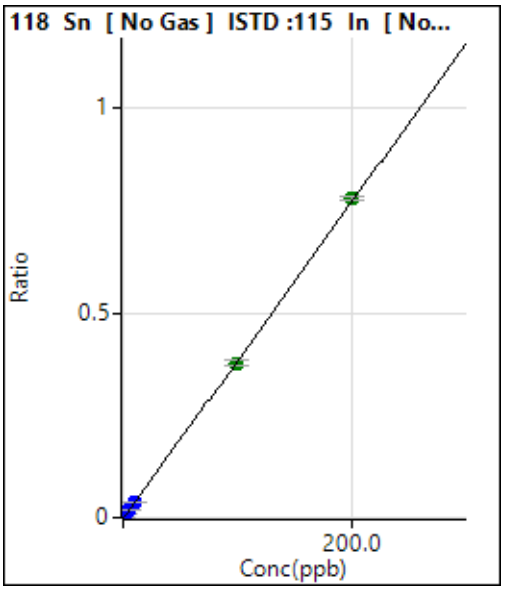
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 79.27 | 0.0000 | P | 25.2 | |
| 2 | ☐ | 2.000 | 1.919 | 8051.91 | 0.0022 | P | 6.9 | -4.1 |
| 3 | ☐ | 5.000 | 4.933 | 20522.90 | 0.0057 | P | 3.4 | -1.3 |
| 4 | ☐ | 10.000 | 9.798 | 40825.51 | 0.0114 | P | 2.4 | -2.0 |
| 5 | ☐ | 100.000 | 98.739 | 390069.23 | 0.1143 | P | 2.0 | -1.3 |
| 6 | ☐ | 200.000 | 200.643 | 768181.74 | 0.2321 | P | 1.2 | 0.3 |

y = 0.0012 * x + 2.2138E-005
R = 1.0000
DL = 0.01449 ppb
BEC = 0.01914 ppb

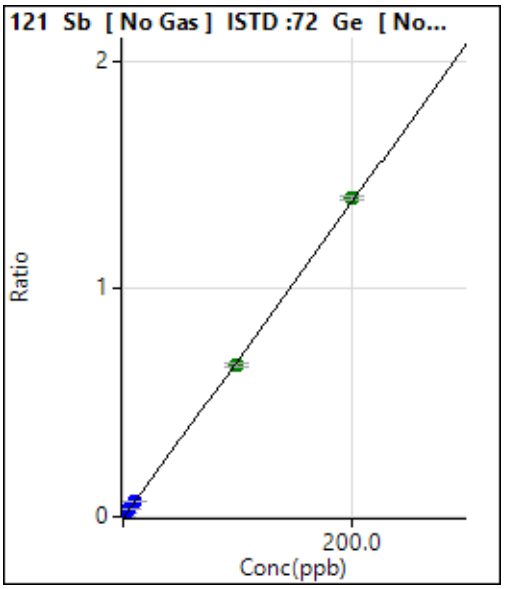
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3933.98 | 0.0011 | P | 5.3 | |
| 2 | ☐ | 2.000 | 1.961 | 31170.16 | 0.0087 | P | 0.7 | -2.0 |
| 3 | ☐ | 5.000 | 4.885 | 71599.30 | 0.0200 | P | 0.9 | -2.3 |
| 4 | ☐ | 10.000 | 9.745 | 139404.93 | 0.0388 | P | 2.1 | -2.6 |
| 5 | ☐ | 100.000 | 97.395 | 1289413.81 | 0.3777 | A | 3.0 | -2.6 |
| 6 | ☐ | 200.000 | 201.318 | 2579378.76 | 0.7795 | A | 1.4 | 0.7 |

y = 0.0039 * x + 0.0011
R = 0.9999
DL = 0.04483 ppb
BEC = 0.2841 ppb

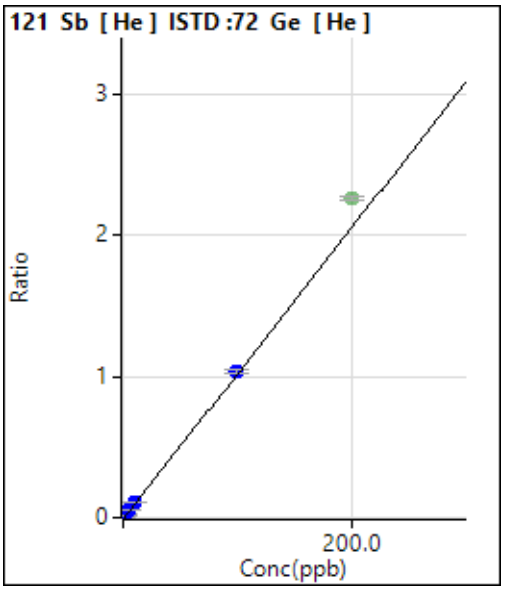
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 880.05 | 0.0003 | P | 10.9 | |
| 2 | ☐ | 2.000 | 1.891 | 37092.18 | 0.0134 | P | 2.4 | -5.5 |
| 3 | ☐ | 5.000 | 4.830 | 92645.46 | 0.0338 | P | 1.3 | -3.4 |
| 4 | ☐ | 10.000 | 9.763 | 185632.76 | 0.0680 | P | 2.2 | -2.4 |
| 5 | ☐ | 100.000 | 96.300 | 1753151.12 | 0.6680 | A | 2.0 | -3.7 |
| 6 | ☐ | 200.000 | 201.867 | 3562489.53 | 1.3999 | A | 0.8 | 0.9 |

y = 0.0069 * x + 3.1794E-004
R = 0.9998
DL = 0.01495 ppb
BEC = 0.04586 ppb

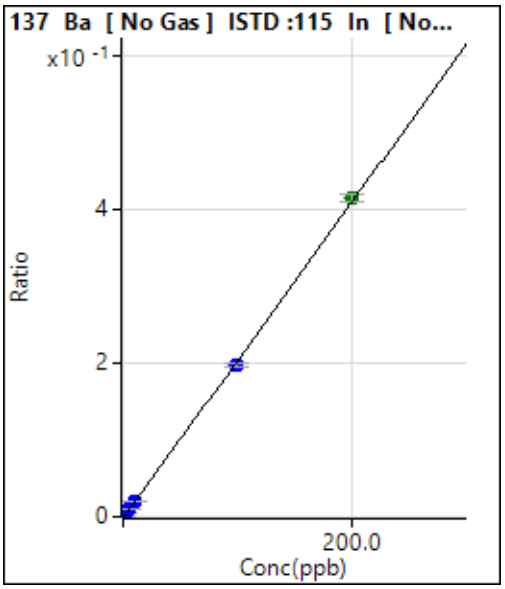
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 333.34 | 0.0004 | P | 19.8 | |
| 2 | ☐ | 2.000 | 1.960 | 16106.68 | 0.0207 | P | 2.5 | -2.0 |
| 3 | ☐ | 5.000 | 4.984 | 40335.00 | 0.0519 | P | 1.6 | -0.3 |
| 4 | ☐ | 10.000 | 10.302 | 82207.29 | 0.1069 | P | 3.4 | 3.0 |
| 5 | ☐ | 100.000 | 99.971 | 765101.92 | 1.0339 | P | 2.5 | 0.0 |
| 6 | ☑ | 200.000 | | 1639505.24 | 2.2657 | A | 0.9 | |

y = 0.0103 * x + 4.2551E-004
R = 1.0000
DL = 0.0244 ppb
BEC = 0.04116 ppb

Weight: <None>
Min Conc: <None>

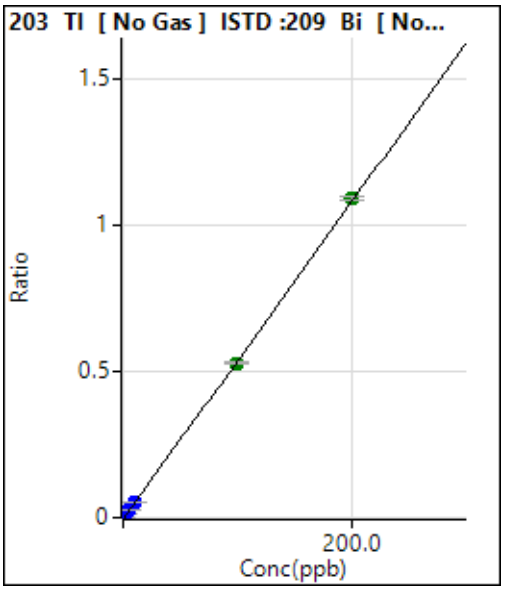



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 650.03 | 0.0002 | P | 13.1 | |
| 2 | ☐ | 2.000 | 1.939 | 14928.66 | 0.0042 | P | 2.0 | -3.1 |
| 3 | ☐ | 5.000 | 4.797 | 35889.37 | 0.0100 | P | 1.5 | -4.1 |
| 4 | ☐ | 10.000 | 9.545 | 71008.44 | 0.0198 | P | 2.4 | -4.5 |
| 5 | ☐ | 100.000 | 96.246 | 674393.61 | 0.1975 | P | 1.8 | -3.8 |
| 6 | ☐ | 200.000 | 201.906 | 1370541.07 | 0.4142 | A | 2.1 | 1.0 |

y = 0.0021 * x + 1.8147E-004
R = 0.9998
DL = 0.03472 ppb
BEC = 0.0885 ppb

Weight: <None>
Min Conc: <None>

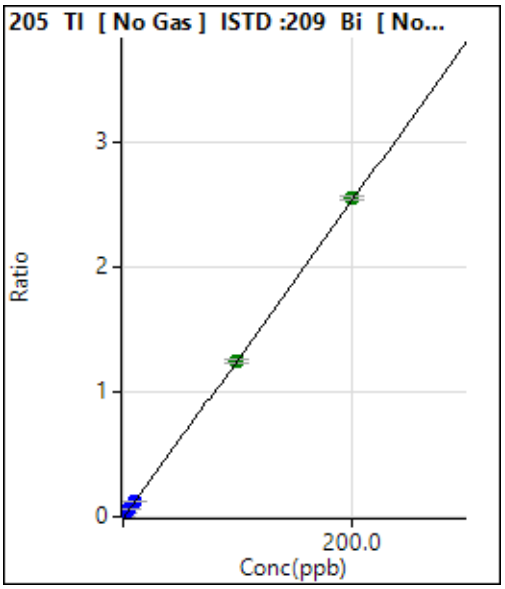
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 783.38 | 0.0002 | P | 12.8 | |
| 2 | ☐ | 2.000 | 1.983 | 40632.33 | 0.0110 | P | 2.1 | -0.9 |
| 3 | ☐ | 5.000 | 4.999 | 101224.34 | 0.0273 | P | 2.8 | 0.0 |
| 4 | ☐ | 10.000 | 9.974 | 201815.17 | 0.0543 | P | 1.1 | -0.3 |
| 5 | ☐ | 100.000 | 97.555 | 1894447.94 | 0.5296 | A | 2.3 | -2.4 |
| 6 | ☐ | 200.000 | 201.224 | 3786081.09 | 1.0921 | A | 1.2 | 0.6 |

y = 0.0054 * x + 2.1055E-004
R = 0.9999
DL = 0.01485 ppb
BEC = 0.0388 ppb

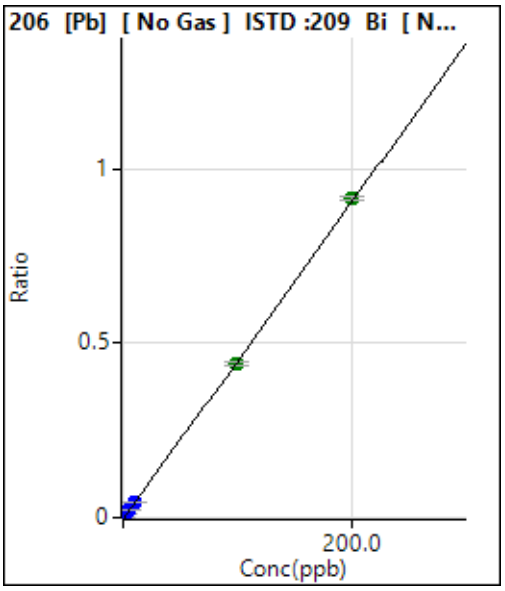
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1563.46 | 0.0004 | P | 15.3 | |
| 2 | ☐ | 2.000 | 2.018 | 96544.71 | 0.0261 | P | 2.2 | 0.9 |
| 3 | ☐ | 5.000 | 5.092 | 241227.03 | 0.0651 | P | 2.4 | 1.8 |
| 4 | ☐ | 10.000 | 10.148 | 480696.61 | 0.1294 | P | 1.7 | 1.5 |
| 5 | ☐ | 100.000 | 97.989 | 4457224.10 | 1.2459 | A | 2.1 | -2.0 |
| 6 | ☐ | 200.000 | 200.996 | 8858542.16 | 2.5552 | A | 1.5 | 0.5 |

y = 0.0127 * x + 4.2015E-004
R = 0.9999
DL = 0.01513 ppb
BEC = 0.03305 ppb

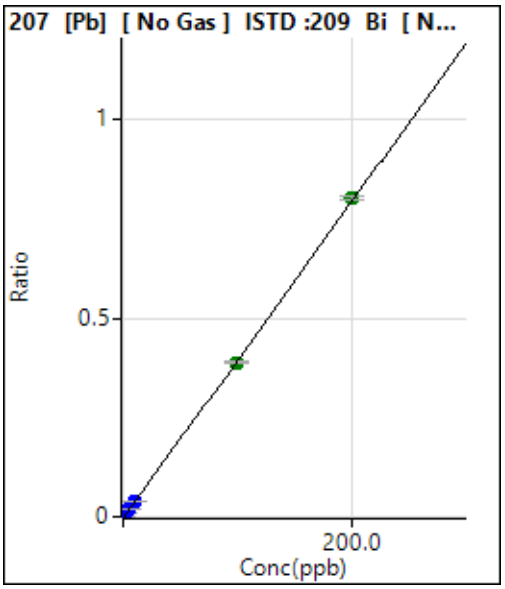
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 773.37 | 0.0002 | P | 15.5 | |
| 2 | ☐ | 2.000 | 1.955 | 33642.00 | 0.0091 | P | 1.9 | -2.2 |
| 3 | ☐ | 5.000 | 4.954 | 84019.85 | 0.0227 | P | 3.1 | -0.9 |
| 4 | ☐ | 10.000 | 10.031 | 169887.31 | 0.0457 | P | 1.2 | 0.3 |
| 5 | ☐ | 100.000 | 97.040 | 1576359.19 | 0.4406 | A | 2.0 | -3.0 |
| 6 | ☐ | 200.000 | 201.480 | 3171026.00 | 0.9147 | A | 1.7 | 0.7 |

y = 0.0045 * x + 2.0792E-004
R = 0.9998
DL = 0.02134 ppb
BEC = 0.04581 ppb

Weight: <None>
Min Conc: <None>

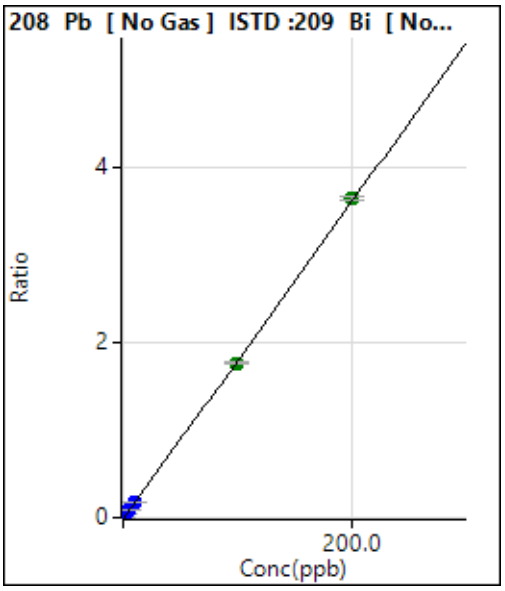



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 693.37 | 0.0002 | P | 9.8 | |
| 2 | ☐ | 2.000 | 1.998 | 30213.19 | 0.0082 | P | 1.8 | -0.1 |
| 3 | ☐ | 5.000 | 4.954 | 73852.60 | 0.0199 | P | 1.3 | -0.9 |
| 4 | ☐ | 10.000 | 9.884 | 147132.54 | 0.0396 | P | 1.0 | -1.2 |
| 5 | ☐ | 100.000 | 97.288 | 1388849.67 | 0.3882 | A | 1.7 | -2.7 |
| 6 | ☐ | 200.000 | 201.363 | 2785032.87 | 0.8033 | A | 1.1 | 0.7 |

y = 0.0040 * x + 1.8639E-004
R = 0.9999
DL = 0.01374 ppb
BEC = 0.04673 ppb

Weight: <None>
Min Conc: <None>

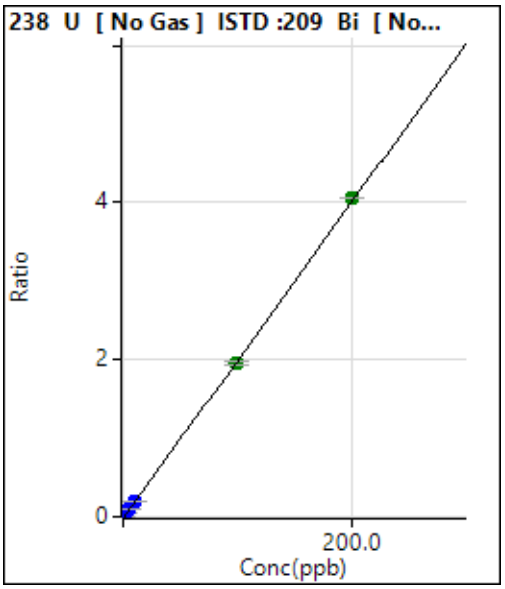
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3066.87 | 0.0008 | P | 5.7 | |
| 2 | ☐ | 2.000 | 1.966 | 135324.42 | 0.0365 | P | 1.8 | -1.7 |
| 3 | ☐ | 5.000 | 4.948 | 335773.60 | 0.0907 | P | 2.2 | -1.0 |
| 4 | ☐ | 10.000 | 9.957 | 674750.46 | 0.1817 | P | 1.4 | -0.4 |
| 5 | ☐ | 100.000 | 97.556 | 6341054.44 | 1.7725 | A | 2.0 | -2.4 |
| 6 | ☐ | 200.000 | 201.226 | 12672095.02 | 3.6552 | A | 1.2 | 0.6 |

y = 0.0182 * x + 8.2440E-004
R = 0.9999
DL = 0.00771 ppb
BEC = 0.04539 ppb

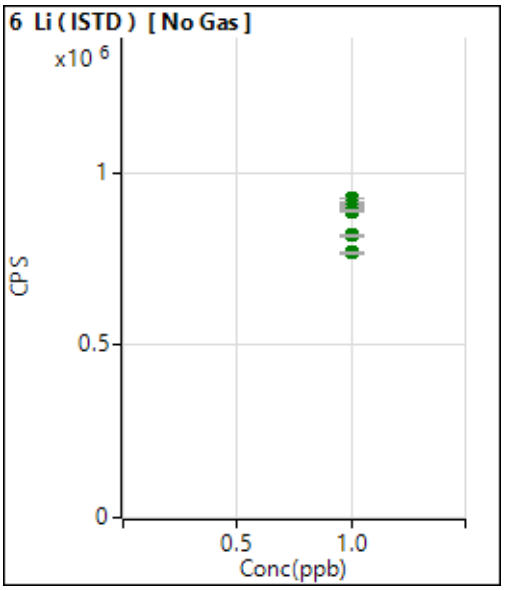
Weight: <None>
Min Conc: <None>



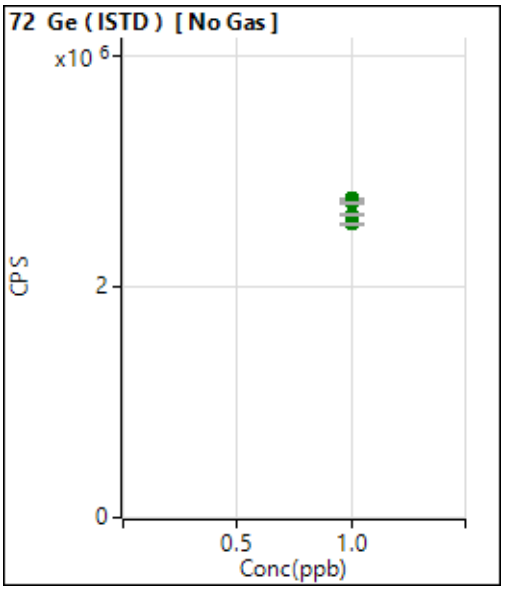

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1900.18 | 0.0005 | P | 2.5 | |
| 2 | ☐ | 2.000 | 1.845 | 139419.83 | 0.0376 | P | 1.9 | -7.7 |
| 3 | ☐ | 5.000 | 4.733 | 354555.30 | 0.0958 | P | 1.4 | -5.3 |
| 4 | ☐ | 10.000 | 9.462 | 709163.35 | 0.1909 | P | 1.1 | -5.4 |
| 5 | ☐ | 100.000 | 96.705 | 6963452.81 | 1.9465 | A | 2.5 | -3.3 |
| 6 | ☐ | 200.000 | 201.683 | 14071646.46 | 4.0590 | A | 0.4 | 0.8 |

y = 0.0201 * x + 5.1076E-004
R = 0.9998
DL = 0.001885 ppb
BEC = 0.02538 ppb

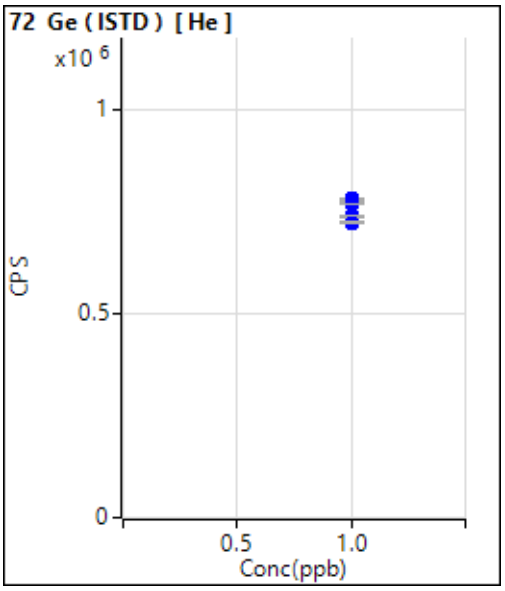
Weight: <None>
Min Conc: <None>



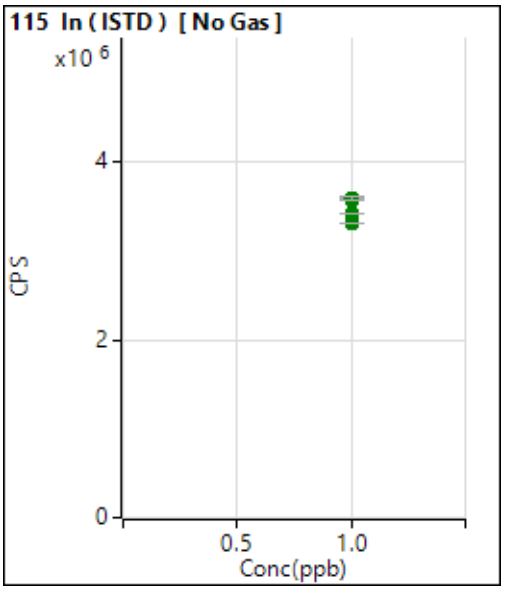

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 925046.91 | | A | 0.3 | |
| 2 | ☐ | 1.000 | | 910090.95 | | A | 0.3 | |
| 3 | ☐ | 1.000 | | 898410.34 | | A | 0.6 | |
| 4 | ☐ | 1.000 | | 887536.48 | | A | 0.6 | |
| 5 | ☐ | 1.000 | | 816416.59 | | A | 0.7 | |
| 6 | ☐ | 1.000 | | 766281.29 | | A | 0.3 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 2767984.33 | | A | 0.3 | |
| 2 | ☐ | 1.000 | | 2762231.42 | | A | 0.4 | |
| 3 | ☐ | 1.000 | | 2740635.27 | | A | 0.7 | |
| 4 | ☐ | 1.000 | | 2729773.60 | | A | 0.5 | |
| 5 | ☐ | 1.000 | | 2624311.16 | | A | 0.8 | |
| 6 | ☐ | 1.000 | | 2544719.96 | | A | 0.4 | |

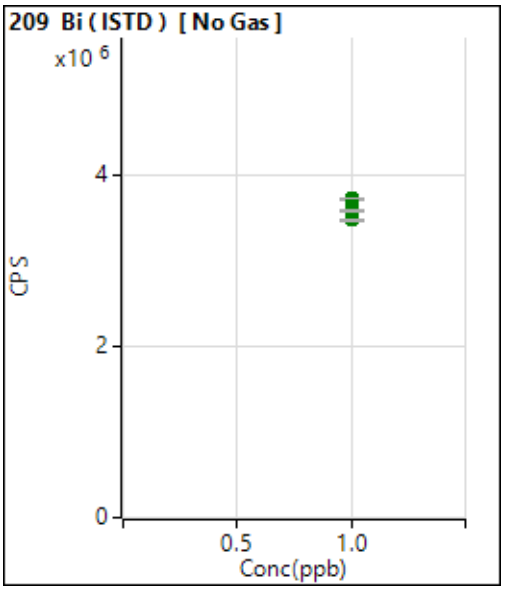



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 783220.07 | | P | 0.6 | |
| 2 | ☐ | 1.000 | | 778735.46 | | P | 0.3 | |
| 3 | ☐ | 1.000 | | 776516.79 | | P | 0.6 | |
| 4 | ☐ | 1.000 | | 768900.07 | | P | 0.2 | |
| 5 | ☐ | 1.000 | | 739983.09 | | P | 0.6 | |
| 6 | ☐ | 1.000 | | 723640.25 | | P | 0.4 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3581092.47 | | A | 0.3 | |
| 2 | ☐ | 1.000 | | 3590901.90 | | A | 0.1 | |
| 3 | ☐ | 1.000 | | 3582606.62 | | A | 0.3 | |
| 4 | ☐ | 1.000 | | 3594961.40 | | A | 0.7 | |
| 5 | ☐ | 1.000 | | 3414111.39 | | A | 0.1 | |
| 6 | ☐ | 1.000 | | 3309119.69 | | A | 0.3 | |

Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3720386.09 | | A | 0.2 | |
| 2 | ☐ | 1.000 | | 3704045.15 | | A | 0.8 | |
| 3 | ☐ | 1.000 | | 3702864.53 | | A | 0.7 | |
| 4 | ☐ | 1.000 | | 3714470.67 | | A | 0.2 | |
| 5 | ☐ | 1.000 | | 3577512.03 | | A | 0.3 | |
| 6 | ☐ | 1.000 | | 3466716.51 | | A | 0.4 | |

# Calibration Blank Report

**Sample Table**

| | |
|---|---|
| Sample Name | CAL BLK |
| Data File Name | 010CALB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T10:48:54-05:00 |
| Sample Type | CalBlk |
| Level | 1 |
| Dilution | 1 |
| Comment | |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 53694 | 0.00 |
| Be | 9 | 1 | No Gas | 93 | 23.20 |
| V | 51 | 2 | He | 7210 | 0.04 |
| Cr | 52 | 2 | He | 7609 | 0.07 |
| Fe | 56 | 2 | He | 19895 | 0.01 |
| Se | 78 | 2 | He | 135 | 7.18 |
| As | 75 | 2 | He | 317 | 2.40 |
| Ca | 44 | 2 | He | 607 | 0.68 |
| Na | 23 | 2 | He | 68034 | 0.00 |
| Mg | 24 | 2 | He | 1630 | 0.46 |
| K | 39 | 2 | He | 86239 | 0.00 |
| Mn | 55 | 2 | He | 777 | 1.43 |
| Co | 59 | 2 | He | 320 | 2.58 |
| Ni | 60 | 2 | He | 263 | 5.06 |
| Cu | 63 | 2 | He | 600 | 1.69 |
| Zn | 66 | 2 | He | 907 | 0.83 |
| Al | 27 | 2 | He | 930 | 0.95 |
| B | 11 | 1 | No Gas | 10486 | 0.01 |
| Al | 27 | 1 | No Gas | 34102 | 0.01 |
| Si | 28 | 1 | No Gas | 259377 | 0.00 |
| Ag | 107 | 1 | No Gas | 797 | 1.62 |
| Cd | 111 | 1 | No Gas | 79 | 31.83 |
| Sr | 88 | 1 | No Gas | 2050 | 0.41 |
| Mo | 95 | 1 | No Gas | 233 | 11.95 |
| Sn | 118 | 1 | No Gas | 3934 | 0.13 |
| Sb | 121 | 1 | No Gas | 880 | 1.23 |
| Ba | 137 | 1 | No Gas | 650 | 2.05 |
| Tl | 205 | 1 | No Gas | 1563 | 0.99 |
| Tl | 203 | 1 | No Gas | 783 | 1.64 |
| Pb | 208 | 1 | No Gas | 3067 | 0.18 |
| U | 238 | 1 | No Gas | 1900 | 0.12 |
| Ca | 43 | 2 | He | 43 | 134.02 |
| Sb | 121 | 2 | He | 333 | 5.99 |
| Ti | 47 | 2 | He | 10 | 1732.05 |
| Cu | 63 | 1 | No Gas | 1627 | 0.30 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|

# Calibration Blank Report

| | | | | | |
|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 925047 | 0.30 |
| Ge | 72 | 2 | He | 783220 | 0.56 |
| Ge | 72 | 1 | No Gas | 2767984 | 0.33 |
| In | 115 | 1 | No Gas | 3581092 | 0.28 |

# Calibration Blank Report

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 3720386 | 0.21 |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 2/10/200 |
| Data File Name | 011CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T10:51:37-05:00 |
| Sample Type | CalStd |
| Level | 2 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 6487 | 0.05 |
| V | 51 | 2 | He | 18096 | 0.01 |
| Cr | 52 | 2 | He | 19941 | 0.01 |
| Fe | 56 | 2 | He | 1196572 | 0.00 |
| Se | 78 | 2 | He | 303 | 5.40 |
| As | 75 | 2 | He | 2465 | 0.11 |
| Ca | 44 | 2 | He | 7986 | 0.09 |
| Na | 23 | 2 | He | 241881 | 0.00 |
| Mg | 24 | 2 | He | 109587 | 0.00 |
| K | 39 | 2 | He | 222089 | 0.00 |
| Mn | 55 | 2 | He | 10347 | 0.05 |
| Co | 59 | 2 | He | 19307 | 0.01 |
| Ni | 60 | 2 | He | 5238 | 0.05 |
| Cu | 63 | 2 | He | 14181 | 0.03 |
| Zn | 66 | 2 | He | 3554 | 0.08 |
| Al | 27 | 2 | He | 1537 | 0.28 |
| B | 11 | 1 | No Gas | 27001 | 0.01 |
| Al | 27 | 1 | No Gas | 65264 | 0.00 |
| Si | 28 | 1 | No Gas | 336928 | 0.00 |
| Ag | 107 | 1 | No Gas | 42545 | 0.01 |
| Cd | 111 | 1 | No Gas | 8052 | 0.09 |
| Sr | 88 | 1 | No Gas | 81035 | 0.00 |
| Mo | 95 | 1 | No Gas | 15132 | 0.02 |
| Sn | 118 | 1 | No Gas | 31170 | 0.00 |
| Sb | 121 | 1 | No Gas | 37092 | 0.01 |
| Ba | 137 | 1 | No Gas | 14929 | 0.01 |
| Tl | 205 | 1 | No Gas | 96545 | 0.00 |
| Tl | 203 | 1 | No Gas | 40632 | 0.01 |
| Pb | 208 | 1 | No Gas | 135324 | 0.00 |
| U | 238 | 1 | No Gas | 139420 | 0.00 |
| Ca | 43 | 2 | He | 477 | 2.86 |
| Sb | 121 | 2 | He | 16107 | 0.01 |
| Cu | 63 | 1 | No Gas | 31429 | 0.01 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 910091 | 0.25 | 925047 | 98.38 | 70 | 120 | |
| Ge | 72 | 2 | He | 778735 | 0.35 | 783220 | 99.43 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2762231 | 0.37 | 2767984 | 99.79 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3590902 | 0.11 | 3581092 | 100.27 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3704045 | 0.84 | 3720386 | 99.56 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 5/25/500 |
| Data File Name | 012CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T10:54:18-05:00 |
| Sample Type | CalStd |
| Level | 3 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 15916 | 0.03 |
| V | 51 | 2 | He | 34195 | 0.01 |
| Cr | 52 | 2 | He | 38614 | 0.00 |
| Fe | 56 | 2 | He | 3026577 | 0.00 |
| Se | 78 | 2 | He | 594 | 1.13 |
| As | 75 | 2 | He | 5596 | 0.05 |
| Ca | 44 | 2 | He | 18499 | 0.02 |
| Na | 23 | 2 | He | 512047 | 0.00 |
| Mg | 24 | 2 | He | 279702 | 0.00 |
| K | 39 | 2 | He | 430864 | 0.00 |
| Mn | 55 | 2 | He | 25090 | 0.02 |
| Co | 59 | 2 | He | 49051 | 0.00 |
| Ni | 60 | 2 | He | 12756 | 0.01 |
| Cu | 63 | 2 | He | 34728 | 0.00 |
| Zn | 66 | 2 | He | 7145 | 0.02 |
| Al | 27 | 2 | He | 2707 | 0.07 |
| B | 11 | 1 | No Gas | 53607 | 0.01 |
| Al | 27 | 1 | No Gas | 106947 | 0.00 |
| Si | 28 | 1 | No Gas | 448740 | 0.00 |
| Ag | 107 | 1 | No Gas | 106670 | 0.00 |
| Cd | 111 | 1 | No Gas | 20523 | 0.01 |
| Sr | 88 | 1 | No Gas | 200780 | 0.00 |
| Mo | 95 | 1 | No Gas | 38275 | 0.01 |
| Sn | 118 | 1 | No Gas | 71599 | 0.00 |
| Sb | 121 | 1 | No Gas | 92645 | 0.00 |
| Ba | 137 | 1 | No Gas | 35889 | 0.00 |
| Tl | 205 | 1 | No Gas | 241227 | 0.00 |
| Tl | 203 | 1 | No Gas | 101224 | 0.00 |
| Pb | 208 | 1 | No Gas | 335774 | 0.00 |
| U | 238 | 1 | No Gas | 354555 | 0.00 |
| Ca | 43 | 2 | He | 1100 | 0.83 |
| Sb | 121 | 2 | He | 40335 | 0.00 |
| Cu | 63 | 1 | No Gas | 75661 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 898410 | 0.56 | 925047 | 97.12 | 70 | 120 | |
| Ge | 72 | 2 | He | 776517 | 0.58 | 783220 | 99.14 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2740635 | 0.73 | 2767984 | 99.01 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3582607 | 0.35 | 3581092 | 100.04 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3702865 | 0.73 | 3720386 | 99.53 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 10/50/100 |
| Data File Name | 013CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T10:56:58-05:00 |
| Sample Type | CalStd |
| Level | 4 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 32140 | 0.00 |
| V | 51 | 2 | He | 62395 | 0.00 |
| Cr | 52 | 2 | He | 71367 | 0.00 |
| Fe | 56 | 2 | He | 6132018 | 0.00 |
| Se | 78 | 2 | He | 1082 | 0.45 |
| As | 75 | 2 | He | 10723 | 0.02 |
| Ca | 44 | 2 | He | 36334 | 0.01 |
| Na | 23 | 2 | He | 958748 | 0.00 |
| Mg | 24 | 2 | He | 559963 | 0.00 |
| K | 39 | 2 | He | 777099 | 0.00 |
| Mn | 55 | 2 | He | 50811 | 0.01 |
| Co | 59 | 2 | He | 98007 | 0.00 |
| Ni | 60 | 2 | He | 25567 | 0.02 |
| Cu | 63 | 2 | He | 69107 | 0.00 |
| Zn | 66 | 2 | He | 13800 | 0.02 |
| Al | 27 | 2 | He | 4674 | 0.17 |
| B | 11 | 1 | No Gas | 96240 | 0.00 |
| Al | 27 | 1 | No Gas | 185299 | 0.00 |
| Si | 28 | 1 | No Gas | 640435 | 0.00 |
| Ag | 107 | 1 | No Gas | 210518 | 0.00 |
| Cd | 111 | 1 | No Gas | 40826 | 0.00 |
| Sr | 88 | 1 | No Gas | 398185 | 0.00 |
| Mo | 95 | 1 | No Gas | 75722 | 0.00 |
| Sn | 118 | 1 | No Gas | 139405 | 0.00 |
| Sb | 121 | 1 | No Gas | 185633 | 0.00 |
| Ba | 137 | 1 | No Gas | 71008 | 0.00 |
| Tl | 205 | 1 | No Gas | 480697 | 0.00 |
| Tl | 203 | 1 | No Gas | 201815 | 0.00 |
| Pb | 208 | 1 | No Gas | 674750 | 0.00 |
| U | 238 | 1 | No Gas | 709163 | 0.00 |
| Ca | 43 | 2 | He | 2110 | 0.51 |
| Sb | 121 | 2 | He | 82207 | 0.00 |
| Cu | 63 | 1 | No Gas | 149626 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 887536 | 0.64 | 925047 | 95.95 | 70 | 120 | |
| Ge | 72 | 2 | He | 768900 | 0.18 | 783220 | 98.17 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2729774 | 0.54 | 2767984 | 98.62 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3594961 | 0.73 | 3581092 | 100.39 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3714471 | 0.23 | 3720386 | 99.84 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 100/500/10K |
| Data File Name | 014CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T10:59:39-05:00 |
| Sample Type | CalStd |
| Level | 5 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 295776 | 0.00 |
| V | 51 | 2 | He | 521843 | 0.00 |
| Cr | 52 | 2 | He | 588851 | 0.00 |
| Fe | 56 | 2 | He | 56402962 | 0.00 |
| Se | 78 | 2 | He | 8966 | 0.04 |
| As | 75 | 2 | He | 99197 | 0.00 |
| Ca | 44 | 2 | He | 338795 | 0.00 |
| Na | 23 | 2 | He | 8244616 | 0.00 |
| Mg | 24 | 2 | He | 5162818 | 0.00 |
| K | 39 | 2 | He | 6536171 | 0.00 |
| Mn | 55 | 2 | He | 461277 | 0.00 |
| Co | 59 | 2 | He | 903636 | 0.00 |
| Ni | 60 | 2 | He | 234080 | 0.00 |
| Cu | 63 | 2 | He | 624094 | 0.00 |
| Zn | 66 | 2 | He | 122635 | 0.00 |
| Al | 27 | 2 | He | 34950 | 0.01 |
| B | 11 | 1 | No Gas | 811064 | 0.00 |
| Al | 27 | 1 | No Gas | 1416939 | 0.00 |
| Si | 28 | 1 | No Gas | 3738979 | 0.00 |
| Ag | 107 | 1 | No Gas | 1951427 | 0.00 |
| Cd | 111 | 1 | No Gas | 390069 | 0.00 |
| Sr | 88 | 1 | No Gas | 3725471 | 0.00 |
| Mo | 95 | 1 | No Gas | 736415 | 0.00 |
| Sn | 118 | 1 | No Gas | 1289414 | 0.00 |
| Sb | 121 | 1 | No Gas | 1753151 | 0.00 |
| Ba | 137 | 1 | No Gas | 674394 | 0.00 |
| Tl | 205 | 1 | No Gas | 4457224 | 0.00 |
| Tl | 203 | 1 | No Gas | 1894448 | 0.00 |
| Pb | 208 | 1 | No Gas | 6341054 | 0.00 |
| U | 238 | 1 | No Gas | 6963453 | 0.00 |
| Ca | 43 | 2 | He | 19871 | 0.03 |
| Sb | 121 | 2 | He | 765102 | 0.00 |
| Cu | 63 | 1 | No Gas | 1365690 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 816417 | 0.68 | 925047 | 88.26 | 70 | 120 | |
| Ge | 72 | 2 | He | 739983 | 0.58 | 783220 | 94.48 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2624311 | 0.76 | 2767984 | 94.81 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3414111 | 0.10 | 3581092 | 95.34 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3577512 | 0.25 | 3720386 | 96.16 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 200/1000/20K |
| Data File Name | 015CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T11:02:18-05:00 |
| Sample Type | CalStd |
| Level | 6 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 580133 | 0.00 |
| V | 51 | 2 | He | 1077787 | 0.00 |
| Cr | 52 | 2 | He | 1227189 | 0.00 |
| Fe | 56 | 2 | He | 116870612 | 0.00 |
| Se | 78 | 2 | He | 18650 | 0.01 |
| As | 75 | 2 | He | 206029 | 0.00 |
| Ca | 44 | 2 | He | 702420 | 0.00 |
| Na | 23 | 2 | He | 16883068 | 0.00 |
| Mg | 24 | 2 | He | 10649837 | 0.00 |
| K | 39 | 2 | He | 13541563 | 0.00 |
| Mn | 55 | 2 | He | 959868 | 0.00 |
| Co | 59 | 2 | He | 1900058 | 0.00 |
| Ni | 60 | 2 | He | 478170 | 0.00 |
| Cu | 63 | 2 | He | 1294062 | 0.00 |
| Zn | 66 | 2 | He | 247505 | 0.00 |
| Al | 27 | 2 | He | 71196 | 0.00 |
| B | 11 | 1 | No Gas | 1606226 | 0.00 |
| Al | 27 | 1 | No Gas | 2757465 | 0.00 |
| Si | 28 | 1 | No Gas | 7074833 | 0.00 |
| Ag | 107 | 1 | No Gas | 3875702 | 0.00 |
| Cd | 111 | 1 | No Gas | 768182 | 0.00 |
| Sr | 88 | 1 | No Gas | 7444902 | 0.00 |
| Mo | 95 | 1 | No Gas | 1490734 | 0.00 |
| Sn | 118 | 1 | No Gas | 2579379 | 0.00 |
| Sb | 121 | 1 | No Gas | 3562490 | 0.00 |
| Ba | 137 | 1 | No Gas | 1370541 | 0.00 |
| Tl | 205 | 1 | No Gas | 8858542 | 0.00 |
| Tl | 203 | 1 | No Gas | 3786081 | 0.00 |
| Pb | 208 | 1 | No Gas | 12672095 | 0.00 |
| U | 238 | 1 | No Gas | 14071646 | 0.00 |
| Ca | 43 | 2 | He | 41138 | 0.00 |
| Sb | 121 | 2 | He | 1639505 | 0.00 |
| Cu | 63 | 1 | No Gas | 2690477 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 766281 | 0.34 | 925047 | 82.84 | 70 | 120 | |
| Ge | 72 | 2 | He | 723640 | 0.39 | 783220 | 92.39 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2544720 | 0.39 | 2767984 | 91.93 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3309120 | 0.34 | 3581092 | 92.41 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3466717 | 0.45 | 3720386 | 93.18 | 70 | 120 | |

# Initial Calibration Verification (ICV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICV |
| Data File Name | 017_ICV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T11:10:44-05:00 |
| Sample Type | ICV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Exp Value | %Rec | %Low | %High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 104.117 | 2.101 | 1172744 | 2.38 | 100 | 104.1 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 106.066 | 1.874 | 312580 | 2.20 | 100 | 106.1 | 90 | 110 | |
| V | 51 | 2 | He | 105.553 | 1.276 | 588138 | 1.46 | 100 | 105.6 | 90 | 110 | |
| Cr | 52 | 2 | He | 104.661 | 1.231 | 662738 | 1.33 | 100 | 104.7 | 90 | 110 | |
| Fe | 56 | 2 | He | 10287.363 | 1.636 | 61858754 | 2.00 | 10000 | 102.9 | 90 | 110 | |
| Se | 78 | 2 | He | 106.554 | 2.858 | 10261 | 2.46 | 100 | 106.6 | 90 | 110 | |
| As | 75 | 2 | He | 105.762 | 0.866 | 112147 | 0.33 | 100 | 105.8 | 90 | 110 | |
| Ca | 44 | 2 | He | 10310.509 | 1.430 | 372753 | 2.11 | 10000 | 103.1 | 90 | 110 | |
| Na | 23 | 2 | He | 10293.537 | 1.017 | 8985900 | 1.32 | 10000 | 102.9 | 90 | 110 | |
| Mg | 24 | 2 | He | 10307.876 | 1.368 | 5652906 | 1.60 | 10000 | 103.1 | 90 | 110 | |
| K | 39 | 2 | He | 10258.830 | 1.814 | 7178775 | 2.20 | 10000 | 102.6 | 90 | 110 | |
| Mn | 55 | 2 | He | 104.926 | 1.188 | 517975 | 1.66 | 100 | 104.9 | 90 | 110 | |
| Co | 59 | 2 | He | 105.784 | 0.877 | 1031199 | 0.95 | 100 | 105.8 | 90 | 110 | |
| Ni | 60 | 2 | He | 105.465 | 0.201 | 260243 | 0.73 | 100 | 105.5 | 90 | 110 | |
| Cu | 63 | 2 | He | 104.680 | 0.970 | 697054 | 1.62 | 100 | 104.7 | 90 | 110 | |
| Zn | 66 | 2 | He | 104.980 | 1.456 | 134669 | 1.68 | 100 | 105.0 | 90 | 110 | |
| Al | 27 | 2 | He | 106.147 | 2.744 | 39329 | 2.52 | 100 | 106.1 | 90 | 110 | |
| B | 11 | 1 | No Gas | 511.086 | 0.566 | 825780 | 0.86 | 500 | 102.2 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 103.993 | 1.786 | 1506356 | 2.00 | 100 | 104.0 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 510.206 | 1.820 | 3879327 | 1.97 | 500 | 102.0 | 90 | 110 | |
| Ag | 107 | 1 | No Gas | 104.173 | 1.964 | 2084934 | 1.47 | 100 | 104.2 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 103.990 | 3.049 | 413134 | 2.56 | 100 | 104.0 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 104.088 | 3.075 | 3996749 | 2.57 | 100 | 104.1 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 100.967 | 2.174 | 774239 | 1.67 | 100 | 101.0 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 104.054 | 2.111 | 1385155 | 1.62 | 100 | 104.1 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 103.728 | 1.724 | 1909087 | 1.99 | 100 | 103.7 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 101.896 | 2.311 | 718008 | 1.81 | 100 | 101.9 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 105.131 | 2.330 | 4817032 | 2.61 | 100 | 105.1 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 105.179 | 2.411 | 2057405 | 2.64 | 100 | 105.2 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 102.998 | 1.762 | 6743637 | 2.15 | 100 | 103.0 | 90 | 110 | |
| U | 238 | 1 | No Gas | 105.202 | 1.417 | 7630674 | 1.80 | 100 | 105.2 | 90 | 110 | |
| Ca | 43 | 2 | He | 10304.949 | 1.647 | 21827 | 2.25 | 10000 | 103.0 | 90 | 110 | |
| Sb | 121 | 2 | He | 103.492 | 0.916 | 867403 | 1.28 | 100 | 103.5 | 90 | 110 | |
| Ti | 47 | 2 | He | 102.357 | 2.658 | 21524 | 3.34 | 100 | 102.4 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 104.946 | 1.309 | 1468118 | 1.58 | 100 | 104.9 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 105.501 | 2.105 | 25224 | 2.28 | 100 | 105.5 | 90 | 110 | |
| Zr | 90 | 1 | No Gas | 86.862 | 2.542 | 2100135 | 2.04 | 100 | 86.9 | 90 | 110 | ICV Main CR1 Failed |
| Zr | 90 | 2 | He | 87.535 | 0.607 | 853861 | 1.16 | 100 | 87.5 | 90 | 1100 | ICV Main CR1 Failed |

**QC ISTD Table**

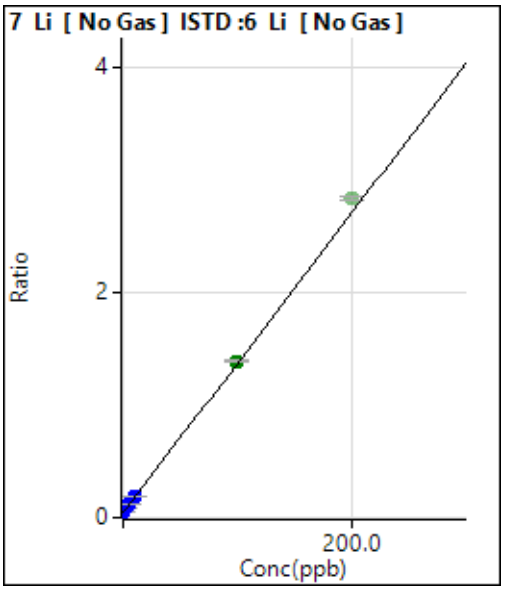
| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 813542 | 0.45 | 925047 | 87.95 | 70 | 120 | |
| Ge | 72 | 2 | He | 752999 | 0.68 | 783220 | 96.14 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2653269 | 0.27 | 2767984 | 95.86 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3433728 | 0.50 | 3581092 | 95.88 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3603462 | 0.40 | 3720386 | 96.86 | 70 | 120 | |

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062824A.b\
Analysis File: 062824A.batch.bin
DA Date-Time: 6/28/2024 10:08:19 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 010CALB.d | CAL BLK | 6/28/2024 10:48:54 AM |
| 2 | 011CALS.d | 2/10/200 | 6/28/2024 10:51:37 AM |
| 3 | 012CALS.d | 5/25/500 | 6/28/2024 10:54:18 AM |
| 4 | 013CALS.d | 10/50/100 | 6/28/2024 10:56:58 AM |
| 5 | 014CALS.d | 100/500/10K | 6/28/2024 10:59:39 AM |
| 6 | 015CALS.d | 200/1000/20K | 6/28/2024 11:02:18 AM |

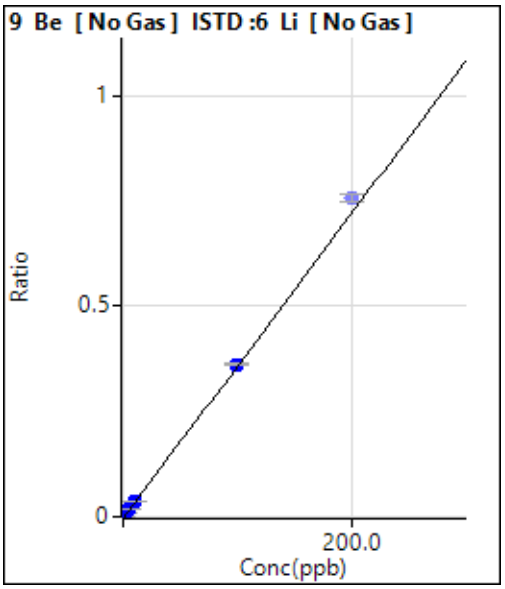
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 53693.95 | 0.0580 | P | 0.8 | |
| 2 | ☐ | 2.000 | 1.985 | 76827.04 | 0.0844 | P | 0.8 | -0.8 |
| 3 | ☐ | 5.000 | 4.966 | 111419.71 | 0.1240 | P | 2.0 | -0.7 |
| 4 | ☐ | 10.000 | 9.951 | 168866.07 | 0.1903 | P | 1.1 | -0.5 |
| 5 | ☐ | 100.000 | 100.007 | 1132266.78 | 1.3869 | A | 1.7 | 0.0 |
| 6 | ☑ | 200.000 | | 2170636.01 | 2.8328 | A | 1.4 | |

y = 0.0133 * x + 0.0580
R = 1.0000
DL = 0.09885 ppb
BEC = 4.368 ppb

Weight: <None>
Min Conc: <None>

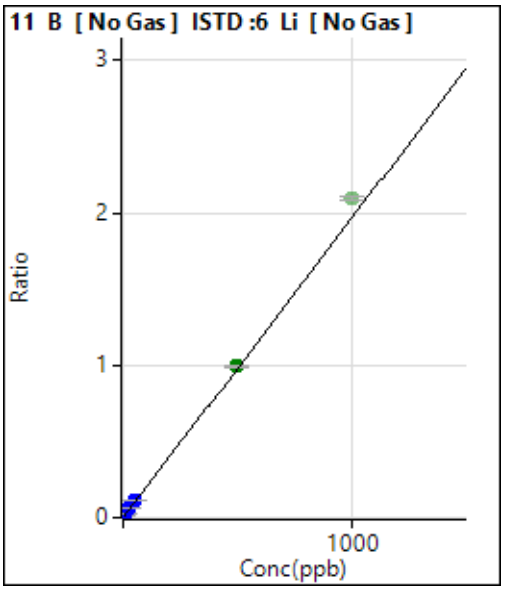



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 93.33 | 0.0001 | P | 21.9 | |
| 2 | ☐ | 2.000 | 1.940 | 6486.52 | 0.0071 | P | 3.3 | -3.0 |
| 3 | ☐ | 5.000 | 4.865 | 15915.62 | 0.0177 | P | 5.9 | -2.7 |
| 4 | ☐ | 10.000 | 9.972 | 32139.60 | 0.0362 | P | 1.2 | -0.3 |
| 5 | ☐ | 100.000 | 100.011 | 295776.38 | 0.3623 | P | 1.9 | 0.0 |
| 6 | ☑ | 200.000 | | 580133.38 | 0.7571 | P | 2.2 | |

y = 0.0036 * x + 1.0094E-004
R = 1.0000
DL = 0.01834 ppb
BEC = 0.02787 ppb

Weight: <None>
Min Conc: <None>

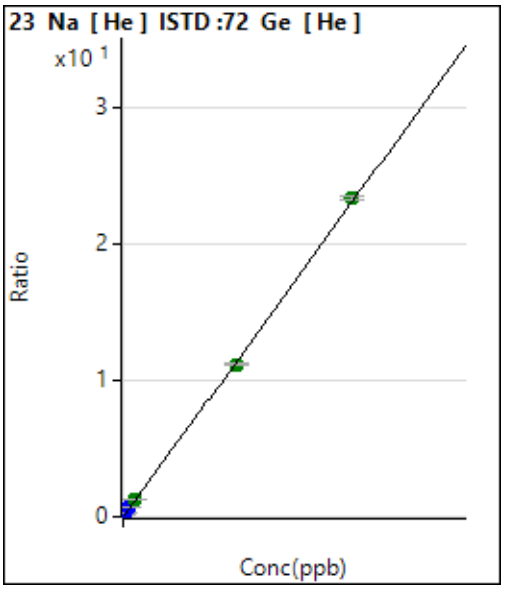
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 10485.62 | 0.0113 | P | 1.5 | |
| 2 | ☐ | 10.000 | 9.335 | 27000.62 | 0.0297 | P | 1.8 | -6.6 |
| 3 | ☐ | 25.000 | 24.615 | 53607.41 | 0.0597 | P | 3.3 | -1.5 |
| 4 | ☐ | 50.000 | 49.444 | 96239.64 | 0.1084 | P | 1.1 | -1.1 |
| 5 | ☐ | 500.000 | 500.088 | 811064.34 | 0.9934 | A | 1.8 | 0.0 |
| 6 | ☑ | 1000.000 | | 1606226.28 | 2.0962 | A | 1.4 | |

y = 0.0020 * x + 0.0113
R = 1.0000
DL = 0.2563 ppb
BEC = 5.772 ppb

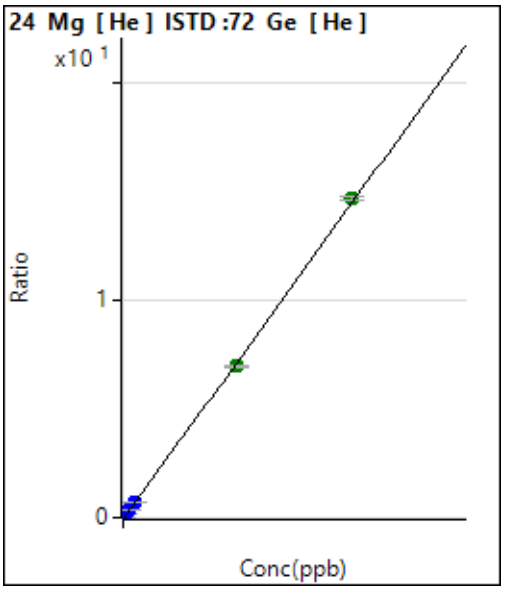
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 68033.74 | 0.0869 | P | 1.0 | |
| 2 | ☐ | 200.000 | 194.421 | 241881.29 | 0.3106 | P | 2.2 | -2.8 |
| 3 | ☐ | 500.000 | 497.467 | 512046.74 | 0.6594 | P | 1.1 | -0.5 |
| 4 | ☐ | 1000.000 | 1007.977 | 958747.62 | 1.2469 | A | 2.0 | 0.8 |
| 5 | ☐ | 10000.00 | 9605.169 | 8244615.92 | 11.1412 | A | 1.2 | -3.9 |
| 6 | ☐ | 20000.00 | 20197.13 | 16883068.50 | 23.3311 | A | 1.5 | 1.0 |

y = 0.0012 * x + 0.0869
R = 0.9997
DL = 2.27 ppb
BEC = 75.48 ppb

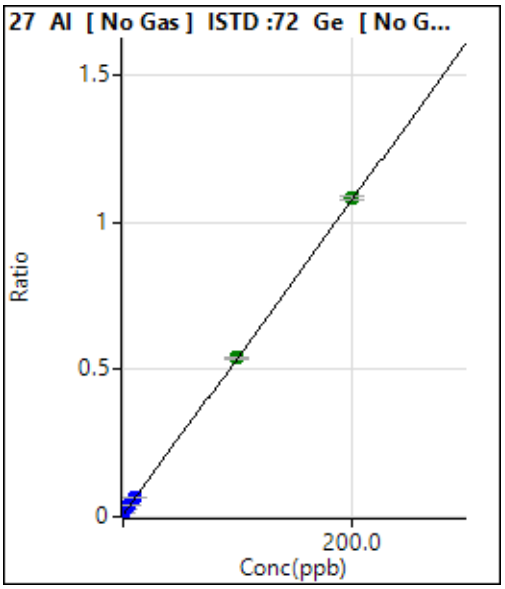
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1630.12 | 0.0021 | P | 7.2 | |
| 2 | ☐ | 200.000 | 190.440 | 109586.99 | 0.1407 | P | 4.6 | -4.8 |
| 3 | ☐ | 500.000 | 491.846 | 279702.50 | 0.3602 | P | 1.3 | -1.6 |
| 4 | ☐ | 1000.000 | 997.385 | 559962.84 | 0.7283 | P | 1.8 | -0.3 |
| 5 | ☐ | 10000.00 | 9579.136 | 5162817.63 | 6.9765 | A | 1.5 | -4.2 |
| 6 | ☐ | 20000.00 | 20210.86 | 10649836.92 | 14.7174 | A | 1.7 | 1.1 |

y = 7.2809E-004 * x + 0.0021
R = 0.9997
DL = 0.6191 ppb
BEC = 2.858 ppb

Weight: <None>
Min Conc: <None>

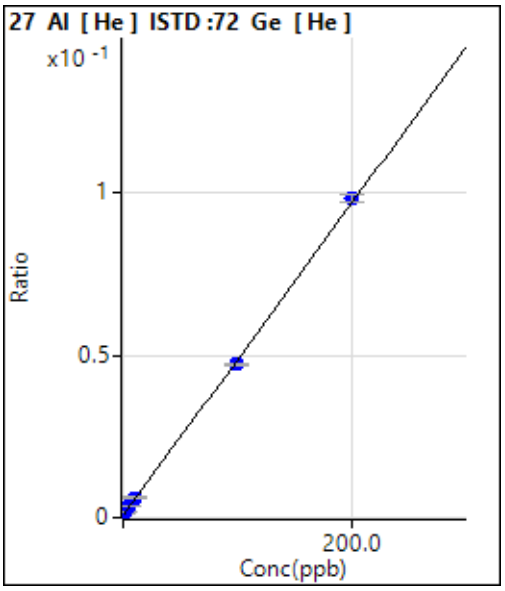



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 34101.58 | 0.0123 | P | 2.5 | |
| 2 | ☐ | 2.000 | 2.117 | 65264.21 | 0.0236 | P | 1.6 | 5.9 |
| 3 | ☐ | 5.000 | 4.999 | 106947.31 | 0.0390 | P | 1.5 | 0.0 |
| 4 | ☐ | 10.000 | 10.403 | 185299.17 | 0.0679 | P | 1.3 | 4.0 |
| 5 | ☐ | 100.000 | 98.785 | 1416939.09 | 0.5399 | A | 1.6 | -1.2 |
| 6 | ☐ | 200.000 | 200.586 | 2757465.17 | 1.0836 | A | 1.4 | 0.3 |

y = 0.0053 * x + 0.0123
R = 1.0000
DL = 0.1758 ppb
BEC = 2.307 ppb

Weight: <None>
Min Conc: <None>

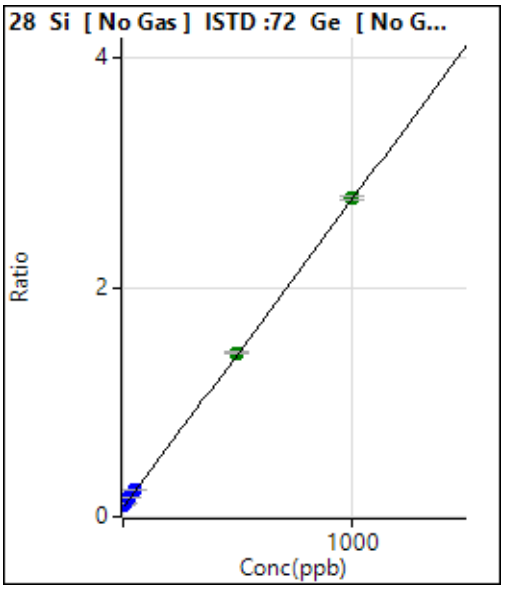
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 930.05 | 0.0012 | P | 8.3 | |
| 2 | ☐ | 2.000 | 1.636 | 1536.78 | 0.0020 | P | 4.7 | -18.2 |
| 3 | ☐ | 5.000 | 4.780 | 2706.97 | 0.0035 | P | 1.5 | -4.4 |
| 4 | ☐ | 10.000 | 10.172 | 4674.20 | 0.0061 | P | 7.8 | 1.7 |
| 5 | ☐ | 100.000 | 95.743 | 34950.40 | 0.0472 | P | 1.5 | -4.3 |
| 6 | ☐ | 200.000 | 202.129 | 71196.14 | 0.0984 | P | 2.2 | 1.1 |

y = 4.8088E-004 * x + 0.0012
R = 0.9997
DL = 0.6129 ppb
BEC = 2.469 ppb

Weight: <None>
Min Conc: <None>

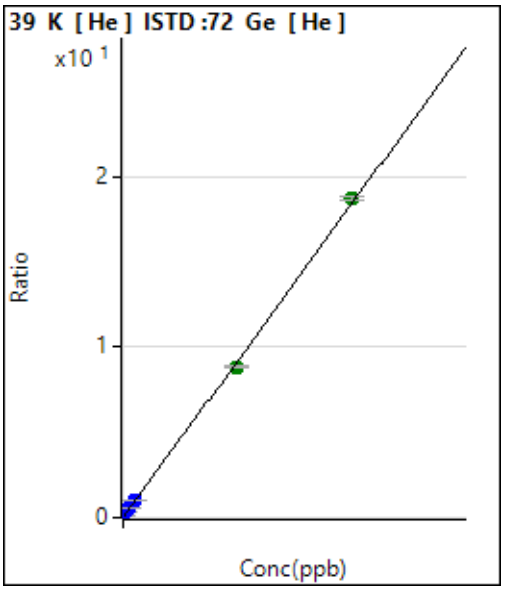



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 259377.48 | 0.0937 | P | 3.4 | |
| 2 | ☐ | 10.000 | 10.538 | 336928.11 | 0.1220 | P | 1.4 | 5.4 |
| 3 | ☐ | 25.000 | 26.114 | 448739.76 | 0.1637 | P | 1.7 | 4.5 |
| 4 | ☐ | 50.000 | 52.538 | 640435.47 | 0.2346 | P | 0.5 | 5.1 |
| 5 | ☐ | 500.000 | 496.287 | 3738979.43 | 1.4247 | A | 1.2 | -0.7 |
| 6 | ☐ | 1000.000 | 1001.696 | 7074832.81 | 2.7802 | A | 0.9 | 0.2 |

y = 0.0027 * x + 0.0937
R = 1.0000
DL = 3.552 ppb
BEC = 34.94 ppb

Weight: <None>
Min Conc: <None>

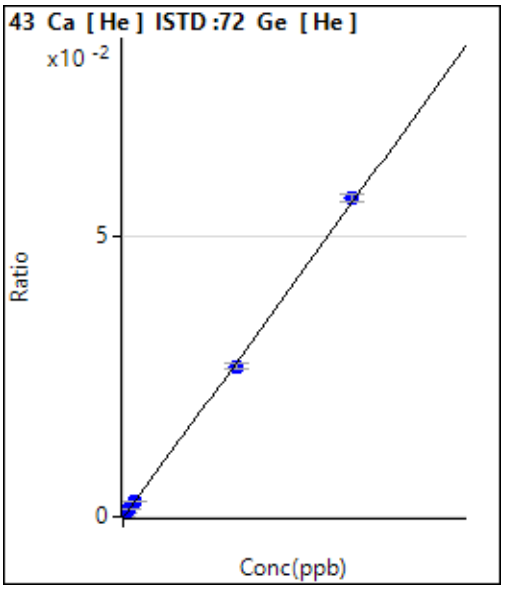
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 86238.61 | 0.1101 | P | 1.9 | |
| 2 | ☐ | 200.000 | 190.632 | 222088.86 | 0.2852 | P | 1.8 | -4.7 |
| 3 | ☐ | 500.000 | 484.177 | 430864.03 | 0.5548 | P | 1.6 | -3.2 |
| 4 | ☐ | 1000.000 | 980.426 | 777098.58 | 1.0107 | P | 2.0 | -2.0 |
| 5 | ☐ | 10000.00 | 9496.081 | 6536171.36 | 8.8326 | A | 0.8 | -5.0 |
| 6 | ☐ | 20000.00 | 20253.42 | 13541562.71 | 18.7136 | A | 1.8 | 1.3 |

y = 9.1854E-004 * x + 0.1101
R = 0.9996
DL = 6.861 ppb
BEC = 119.9 ppb

Weight: <None>
Min Conc: <None>

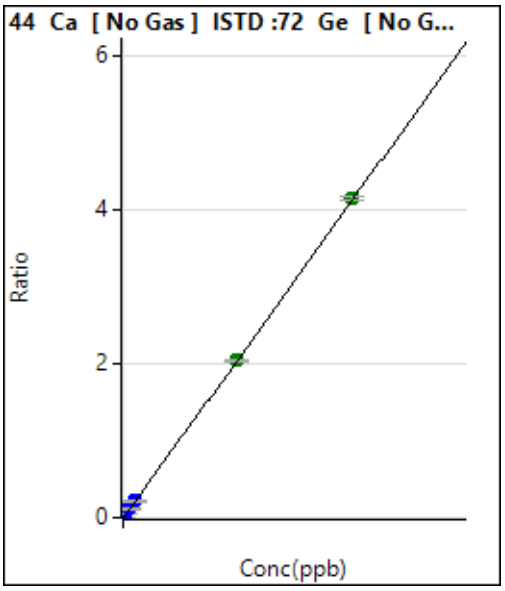



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 43.33 | 0.0001 | P | 58.6 | |
| 2 | ☐ | 200.000 | 198.303 | 476.68 | 0.0006 | P | 13.7 | -0.8 |
| 3 | ☐ | 500.000 | 484.738 | 1100.06 | 0.0014 | P | 8.6 | -3.1 |
| 4 | ☐ | 1000.000 | 957.754 | 2110.20 | 0.0027 | P | 10.7 | -4.2 |
| 5 | ☐ | 10000.00 | 9543.795 | 19871.21 | 0.0268 | P | 4.8 | -4.6 |
| 6 | ☐ | 20000.00 | 20230.61 | 41137.64 | 0.0569 | P | 2.1 | 1.2 |

y = 2.8074E-006 * x + 5.5433E-005
R = 0.9996
DL = 34.71 ppb
BEC = 19.75 ppb

Weight: <None>
Min Conc: <None>

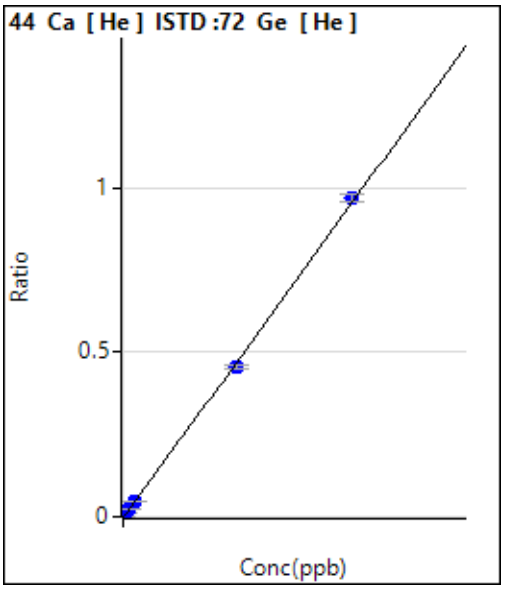
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 28997.33 | 0.0105 | P | 2.7 | |
| 2 | ☐ | 200.000 | 196.142 | 140482.65 | 0.0509 | P | 2.7 | -1.9 |
| 3 | ☐ | 500.000 | 495.867 | 308521.45 | 0.1126 | P | 0.8 | -0.8 |
| 4 | ☐ | 1000.000 | 988.159 | 583938.00 | 0.2139 | P | 2.4 | -1.2 |
| 5 | ☐ | 10000.00 | 9843.692 | 5346373.77 | 2.0372 | A | 1.7 | -1.6 |
| 6 | ☐ | 20000.00 | 20078.88 | 10546593.38 | 4.1445 | A | 1.0 | 0.4 |

y = 2.0589E-004 * x + 0.0105
R = 1.0000
DL = 4.144 ppb
BEC = 50.88 ppb

Weight: <None>
Min Conc: <None>

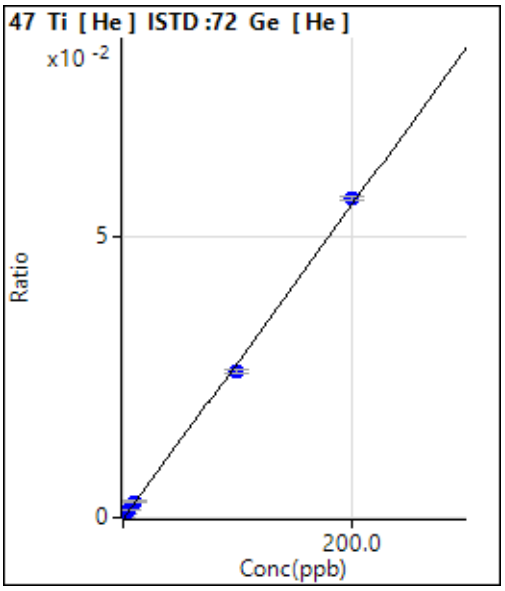



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 606.69 | 0.0008 | P | 3.6 | |
| 2 | ☐ | 200.000 | 197.813 | 7985.77 | 0.0103 | P | 7.2 | -1.1 |
| 3 | ☐ | 500.000 | 480.803 | 18499.27 | 0.0238 | P | 2.9 | -3.8 |
| 4 | ☐ | 1000.000 | 969.695 | 36334.41 | 0.0473 | P | 2.6 | -3.0 |
| 5 | ☐ | 10000.00 | 9534.462 | 338794.68 | 0.4578 | P | 2.8 | -4.7 |
| 6 | ☐ | 20000.00 | 20234.78 | 702419.83 | 0.9707 | P | 1.9 | 1.2 |

y = 4.7934E-005 * x + 7.7452E-004
R = 0.9996
DL = 1.757 ppb
BEC = 16.16 ppb

Weight: <None>
Min Conc: <None>

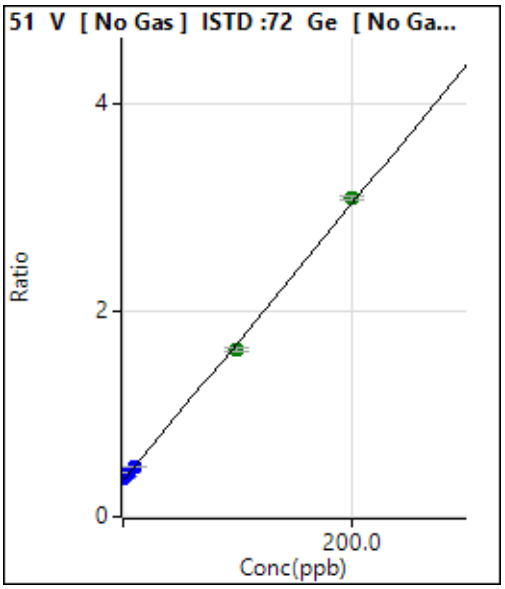
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 10.00 | 0.0000 | P | 173.2 | |
| 2 | ☐ | 2.000 | 2.454 | 543.36 | 0.0007 | P | 8.7 | 22.7 |
| 3 | ☐ | 5.000 | 4.629 | 1013.39 | 0.0013 | P | 7.7 | -7.4 |
| 4 | ☐ | 10.000 | 9.989 | 2153.54 | 0.0028 | P | 9.8 | -0.1 |
| 5 | ☐ | 100.000 | 93.218 | 19263.64 | 0.0260 | P | 3.7 | -6.8 |
| 6 | ☐ | 200.000 | 203.396 | 41087.74 | 0.0568 | P | 1.1 | 1.7 |

y = 2.7910E-004 * x + 1.2735E-005
R = 0.9992
DL = 0.2371 ppb
BEC = 0.04563 ppb

Weight: <None>
Min Conc: <None>

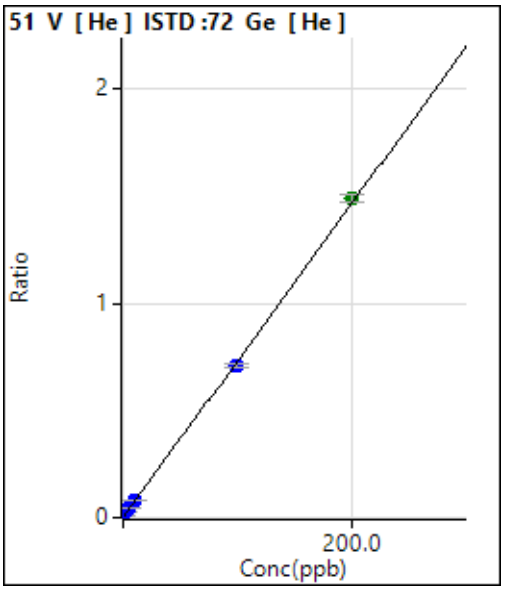



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1010954.48 | 0.3652 | P | 0.5 | |
| 2 | ☐ | 2.000 | 1.938 | 1080650.24 | 0.3912 | P | 1.3 | -3.1 |
| 3 | ☐ | 5.000 | 4.355 | 1161135.25 | 0.4236 | P | 1.4 | -12.9 |
| 4 | ☐ | 10.000 | 8.883 | 1322173.21 | 0.4844 | P | 1.4 | -11.2 |
| 5 | ☐ | 100.000 | 93.506 | 4249706.16 | 1.6193 | A | 1.3 | -6.5 |
| 6 | ☐ | 200.000 | 203.320 | 7868543.93 | 3.0921 | A | 0.8 | 1.7 |

y = 0.0134 * x + 0.3652
R = 0.9993
DL = 0.4177 ppb
BEC = 27.23 ppb

Weight: <None>
Min Conc: <None>

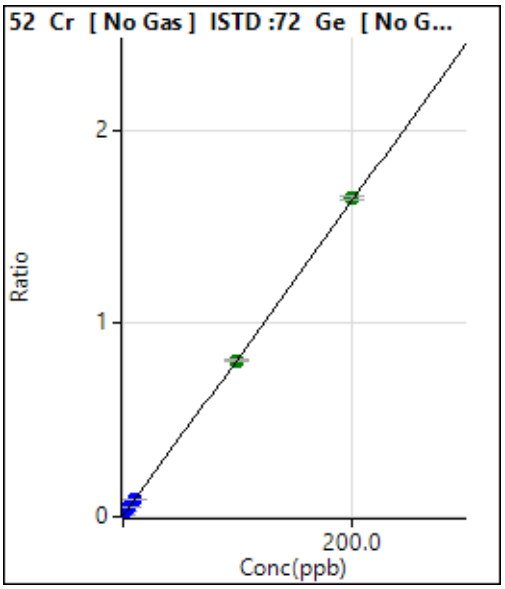
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7209.69 | 0.0092 | P | 2.4 | |
| 2 | ☐ | 2.000 | 1.919 | 18096.30 | 0.0232 | P | 2.3 | -4.0 |
| 3 | ☐ | 5.000 | 4.763 | 34195.37 | 0.0440 | P | 1.8 | -4.7 |
| 4 | ☐ | 10.000 | 9.839 | 62395.05 | 0.0811 | P | 2.8 | -1.6 |
| 5 | ☐ | 100.000 | 95.172 | 521843.03 | 0.7052 | P | 2.4 | -4.8 |
| 6 | ☐ | 200.000 | 202.429 | 1077786.55 | 1.4895 | A | 2.4 | 1.2 |

y = 0.0073 * x + 0.0092
R = 0.9996
DL = 0.08909 ppb
BEC = 1.259 ppb

Weight: <None>
Min Conc: <None>

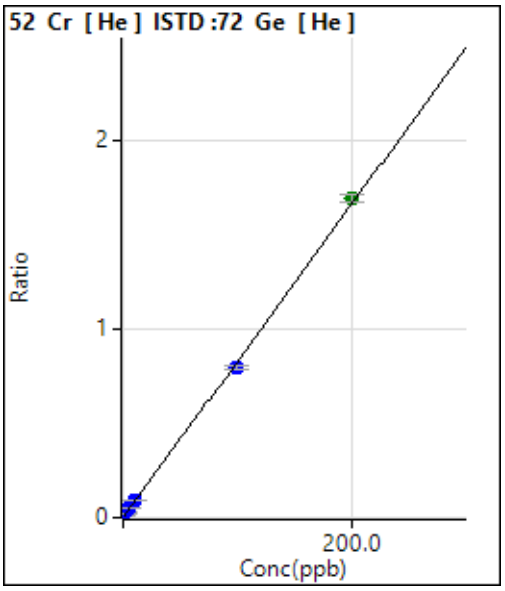



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 34286.10 | 0.0124 | P | 1.8 | |
| 2 | ☐ | 2.000 | 1.958 | 78226.70 | 0.0283 | P | 2.6 | -2.1 |
| 3 | ☐ | 5.000 | 5.009 | 145663.94 | 0.0531 | P | 3.9 | 0.2 |
| 4 | ☐ | 10.000 | 9.909 | 253873.25 | 0.0930 | P | 1.7 | -0.9 |
| 5 | ☐ | 100.000 | 97.835 | 2121565.39 | 0.8084 | A | 0.9 | -2.2 |
| 6 | ☐ | 200.000 | 201.087 | 4195007.34 | 1.6485 | A | 0.6 | 0.5 |

y = 0.0081 * x + 0.0124
R = 0.9999
DL = 0.08146 ppb
BEC = 1.522 ppb

Weight: <None>
Min Conc: <None>

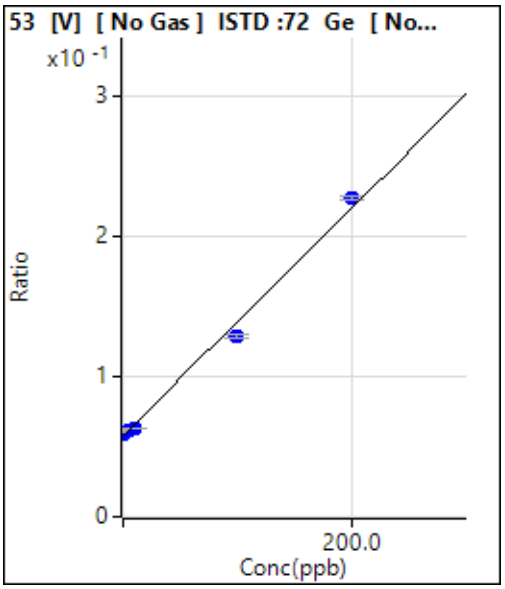
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7608.88 | 0.0097 | P | 5.4 | |
| 2 | ☐ | 2.000 | 1.911 | 19941.23 | 0.0256 | P | 1.7 | -4.5 |
| 3 | ☐ | 5.000 | 4.811 | 38614.11 | 0.0497 | P | 1.2 | -3.8 |
| 4 | ☐ | 10.000 | 9.993 | 71366.91 | 0.0928 | P | 1.5 | -0.1 |
| 5 | ☐ | 100.000 | 94.508 | 588850.85 | 0.7957 | P | 2.1 | -5.5 |
| 6 | ☐ | 200.000 | 202.752 | 1227189.22 | 1.6959 | A | 2.3 | 1.4 |

y = 0.0083 * x + 0.0097
R = 0.9995
DL = 0.1888 ppb
BEC = 1.168 ppb

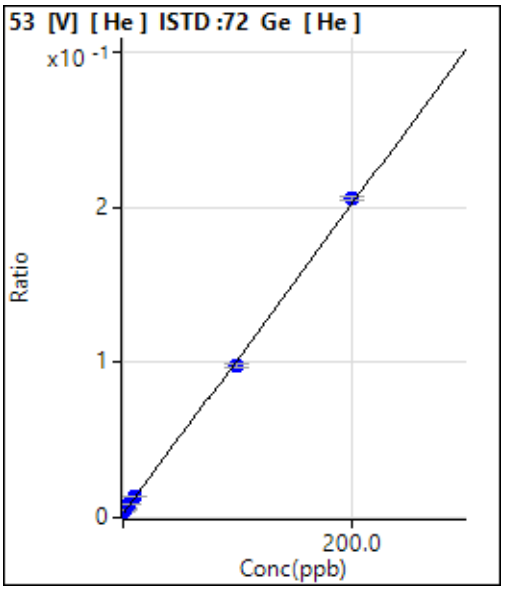
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 164036.67 | 0.0593 | P | 0.7 | |
| 2 | ☐ | 2.000 | 1.732 | 167571.12 | 0.0607 | P | 1.2 | -13.4 |
| 3 | ☐ | 5.000 | 2.193 | 167297.96 | 0.0610 | P | 1.2 | -56.1 |
| 4 | ☐ | 10.000 | 5.018 | 172871.46 | 0.0633 | P | 1.1 | -49.8 |
| 5 | ☐ | 100.000 | 85.756 | 337990.58 | 0.1288 | P | 1.4 | -14.2 |
| 6 | ☐ | 200.000 | 207.444 | 578785.28 | 0.2274 | P | 1.3 | 3.7 |

y = 8.1073E-004 * x + 0.0593
R = 0.9966
DL = 1.644 ppb
BEC = 73.1 ppb

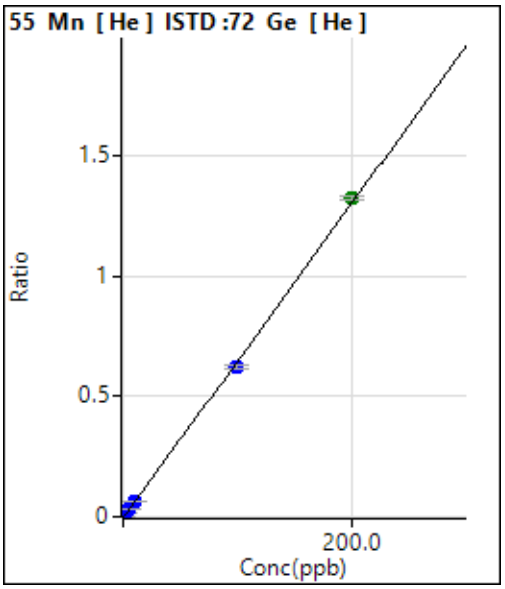
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2793.66 | 0.0036 | P | 5.9 | |
| 2 | ☐ | 2.000 | 1.858 | 4217.40 | 0.0054 | P | 6.4 | -7.1 |
| 3 | ☐ | 5.000 | 4.727 | 6424.93 | 0.0083 | P | 4.7 | -5.5 |
| 4 | ☐ | 10.000 | 9.708 | 10177.27 | 0.0132 | P | 2.1 | -2.9 |
| 5 | ☐ | 100.000 | 94.230 | 72100.88 | 0.0974 | P | 2.8 | -5.8 |
| 6 | ☐ | 200.000 | 202.908 | 148836.68 | 0.2057 | P | 1.5 | 1.5 |

y = 9.9607E-004 * x + 0.0036
R = 0.9994
DL = 0.6353 ppb
BEC = 3.58 ppb

Weight: <None>
Min Conc: <None>

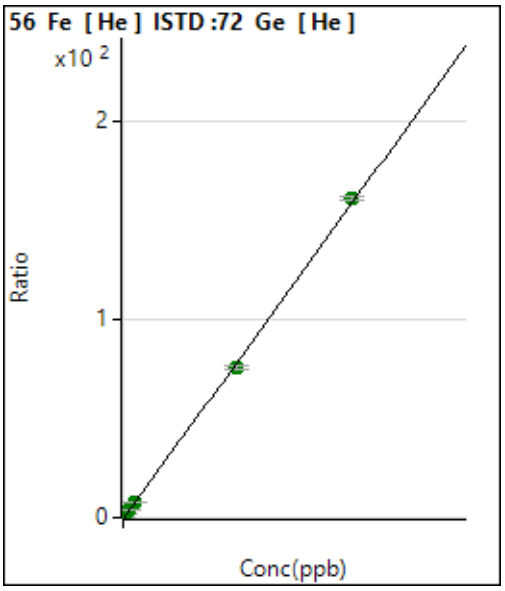



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 776.70 | 0.0010 | P | 11.6 | |
| 2 | ☐ | 2.000 | 1.878 | 10347.38 | 0.0133 | P | 5.0 | -6.1 |
| 3 | ☐ | 5.000 | 4.784 | 25089.77 | 0.0323 | P | 3.8 | -4.3 |
| 4 | ☐ | 10.000 | 9.943 | 50810.52 | 0.0661 | P | 3.3 | -0.6 |
| 5 | ☐ | 100.000 | 95.066 | 461277.27 | 0.6233 | P | 1.9 | -4.9 |
| 6 | ☐ | 200.000 | 202.476 | 959867.75 | 1.3264 | A | 1.3 | 1.2 |

y = 0.0065 * x + 9.9207E-004
R = 0.9996
DL = 0.05289 ppb
BEC = 0.1515 ppb

Weight: <None>
Min Conc: <None>

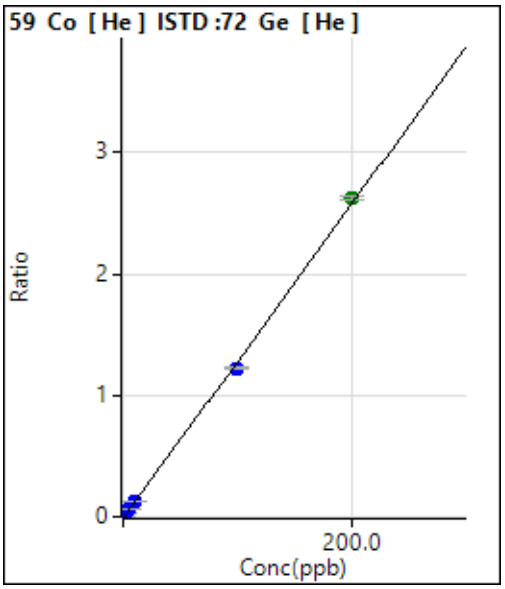
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 19894.62 | 0.0254 | P | 1.6 | |
| 2 | ☐ | 200.000 | 189.312 | 1196572.38 | 1.5366 | A | 2.4 | -5.3 |
| 3 | ☐ | 500.000 | 485.044 | 3026576.73 | 3.8974 | A | 1.8 | -3.0 |
| 4 | ☐ | 1000.000 | 995.855 | 6132018.24 | 7.9751 | A | 2.3 | -0.4 |
| 5 | ☐ | 10000.00 | 9544.277 | 56402962.49 | 76.2156 | A | 2.2 | -4.6 |
| 6 | ☐ | 20000.00 | 20228.54 | 116870611.5 | 161.506 | A | 1.5 | 1.1 |

y = 0.0080 * x + 0.0254
R = 0.9996
DL = 0.1481 ppb
BEC = 3.182 ppb

Weight: <None>
Min Conc: <None>

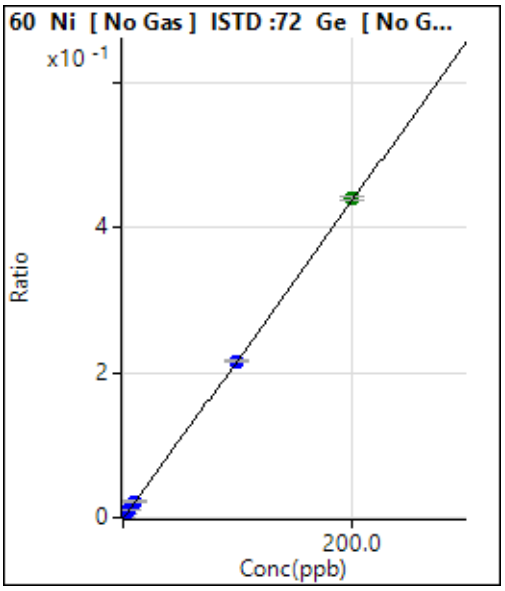



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 320.01 | 0.0004 | P | 8.8 | |
| 2 | ☐ | 2.000 | 1.884 | 19307.12 | 0.0248 | P | 2.7 | -5.8 |
| 3 | ☐ | 5.000 | 4.849 | 49050.62 | 0.0632 | P | 0.8 | -3.0 |
| 4 | ☐ | 10.000 | 9.818 | 98006.73 | 0.1275 | P | 3.4 | -1.8 |
| 5 | ☐ | 100.000 | 94.319 | 903636.13 | 1.2211 | P | 1.6 | -5.7 |
| 6 | ☐ | 200.000 | 202.855 | 1900057.73 | 2.6258 | A | 1.4 | 1.4 |

y = 0.0129 * x + 4.0872E-004
R = 0.9994
DL = 0.008384 ppb
BEC = 0.03158 ppb

Weight: <None>
Min Conc: <None>

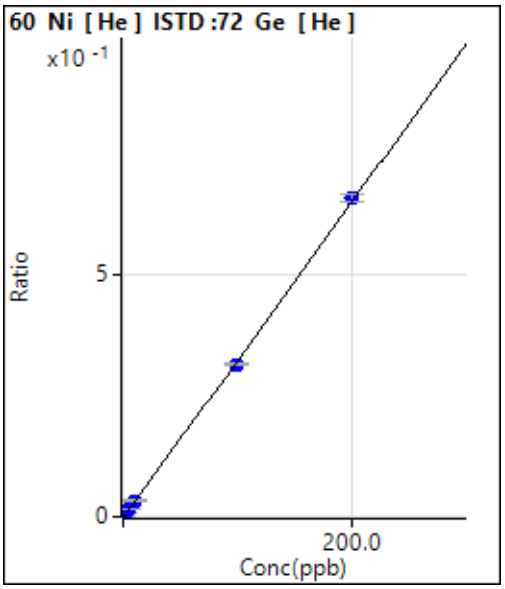
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 866.71 | 0.0003 | P | 9.3 | |
| 2 | ☐ | 2.000 | 2.008 | 13033.04 | 0.0047 | P | 1.3 | 0.4 |
| 3 | ☐ | 5.000 | 5.064 | 31312.63 | 0.0114 | P | 3.4 | 1.3 |
| 4 | ☐ | 10.000 | 10.130 | 61523.56 | 0.0225 | P | 1.3 | 1.3 |
| 5 | ☐ | 100.000 | 98.261 | 566638.22 | 0.2159 | P | 1.6 | -1.7 |
| 6 | ☐ | 200.000 | 200.861 | 1122317.56 | 0.4410 | A | 0.9 | 0.4 |

y = 0.0022 * x + 3.1313E-004
R = 0.9999
DL = 0.03995 ppb
BEC = 0.1427 ppb

Weight: <None>
Min Conc: <None>

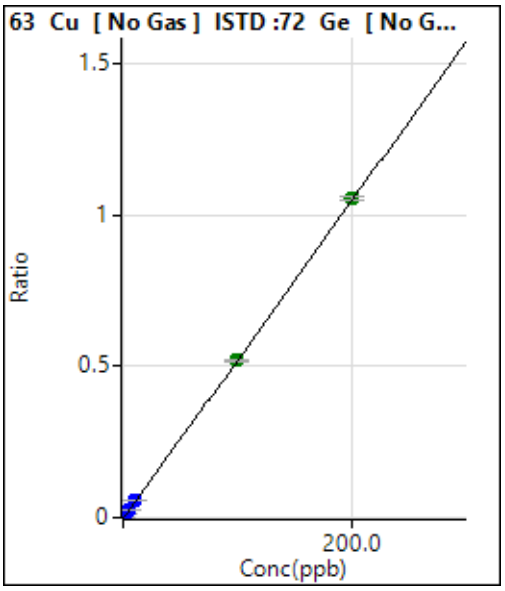



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 263.34 | 0.0003 | P | 12.9 | |
| 2 | ☐ | 2.000 | 1.952 | 5237.76 | 0.0067 | P | 2.7 | -2.4 |
| 3 | ☐ | 5.000 | 4.915 | 12756.10 | 0.0164 | P | 0.8 | -1.7 |
| 4 | ☐ | 10.000 | 10.055 | 25567.34 | 0.0333 | P | 5.7 | 0.5 |
| 5 | ☐ | 100.000 | 96.516 | 234079.81 | 0.3163 | P | 1.9 | -3.5 |
| 6 | ☐ | 200.000 | 201.742 | 478169.86 | 0.6608 | P | 2.4 | 0.9 |

y = 0.0033 * x + 3.3611E-004
R = 0.9998
DL = 0.03985 ppb
BEC = 0.1027 ppb

Weight: <None>
Min Conc: <None>

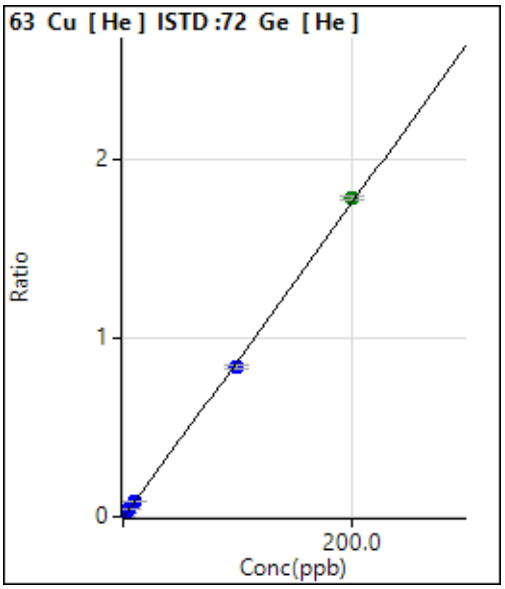
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1626.79 | 0.0006 | P | 4.9 | |
| 2 | ☐ | 2.000 | 2.049 | 31429.43 | 0.0114 | P | 2.2 | 2.4 |
| 3 | ☐ | 5.000 | 5.130 | 75661.23 | 0.0276 | P | 2.4 | 2.6 |
| 4 | ☐ | 10.000 | 10.296 | 149626.46 | 0.0548 | P | 1.1 | 3.0 |
| 5 | ☐ | 100.000 | 98.696 | 1365690.09 | 0.5204 | A | 1.1 | -1.3 |
| 6 | ☐ | 200.000 | 200.634 | 2690477.04 | 1.0573 | A | 1.3 | 0.3 |

y = 0.0053 * x + 5.8772E-004
R = 1.0000
DL = 0.01655 ppb
BEC = 0.1116 ppb

Weight: <None>
Min Conc: <None>

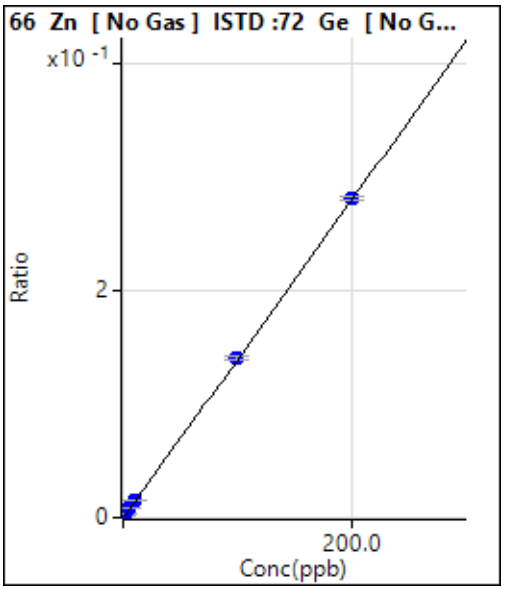



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 600.02 | 0.0008 | P | 9.9 | |
| 2 | ☐ | 2.000 | 1.975 | 14180.86 | 0.0182 | P | 4.3 | -1.3 |
| 3 | ☐ | 5.000 | 4.975 | 34727.63 | 0.0447 | P | 1.8 | -0.5 |
| 4 | ☐ | 10.000 | 10.086 | 69106.74 | 0.0899 | P | 1.3 | 0.9 |
| 5 | ☐ | 100.000 | 95.361 | 624093.85 | 0.8433 | P | 2.0 | -4.6 |
| 6 | ☐ | 200.000 | 202.316 | 1294061.54 | 1.7883 | A | 1.6 | 1.2 |

y = 0.0088 * x + 7.6598E-004
R = 0.9996
DL = 0.02568 ppb
BEC = 0.08669 ppb

Weight: <None>
Min Conc: <None>

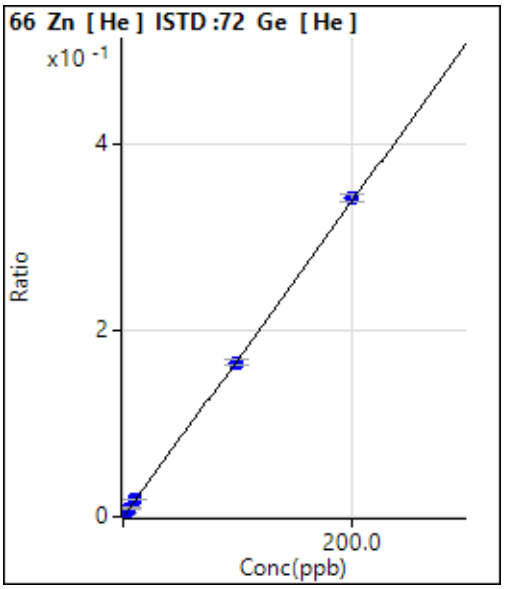
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2456.93 | 0.0009 | P | 5.3 | |
| 2 | ☐ | 2.000 | 2.026 | 10294.06 | 0.0037 | P | 4.1 | 1.3 |
| 3 | ☐ | 5.000 | 5.306 | 22809.26 | 0.0083 | P | 2.9 | 6.1 |
| 4 | ☐ | 10.000 | 10.338 | 41957.74 | 0.0154 | P | 2.6 | 3.4 |
| 5 | ☐ | 100.000 | 99.672 | 368847.17 | 0.1405 | P | 1.8 | -0.3 |
| 6 | ☐ | 200.000 | 200.139 | 715848.79 | 0.2813 | P | 1.0 | 0.1 |

y = 0.0014 * x + 8.8770E-004
R = 1.0000
DL = 0.1011 ppb
BEC = 0.6336 ppb

Weight: <None>
Min Conc: <None>

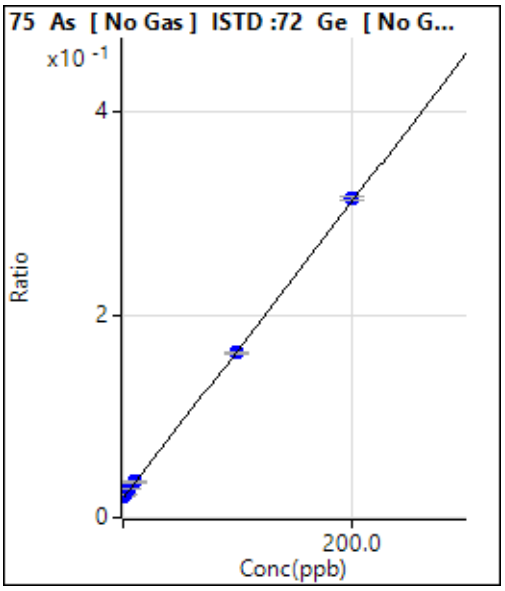



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 906.71 | 0.0012 | P | 7.6 | |
| 2 | ☐ | 2.000 | 2.012 | 3553.88 | 0.0046 | P | 3.1 | 0.6 |
| 3 | ☐ | 5.000 | 4.753 | 7145.32 | 0.0092 | P | 1.6 | -4.9 |
| 4 | ☐ | 10.000 | 9.920 | 13800.40 | 0.0179 | P | 2.4 | -0.8 |
| 5 | ☐ | 100.000 | 97.220 | 122634.62 | 0.1657 | P | 3.2 | -2.8 |
| 6 | ☐ | 200.000 | 201.400 | 247505.45 | 0.3420 | P | 2.0 | 0.7 |

y = 0.0017 * x + 0.0012
R = 0.9999
DL = 0.1563 ppb
BEC = 0.684 ppb

Weight: <None>
Min Conc: <None>

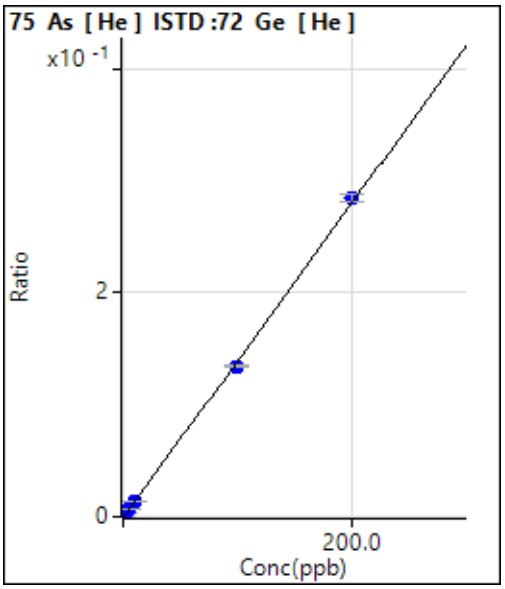
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 57340.72 | 0.0207 | P | 0.5 | |
| 2 | ☐ | 2.000 | 2.035 | 65440.12 | 0.0237 | P | 0.3 | 1.7 |
| 3 | ☐ | 5.000 | 5.200 | 77617.38 | 0.0283 | P | 1.1 | 4.0 |
| 4 | ☐ | 10.000 | 10.000 | 96456.09 | 0.0353 | P | 2.5 | 0.0 |
| 5 | ☐ | 100.000 | 97.055 | 426818.08 | 0.1626 | P | 1.6 | -2.9 |
| 6 | ☐ | 200.000 | 201.467 | 802394.62 | 0.3153 | P | 1.6 | 0.7 |

y = 0.0015 * x + 0.0207
R = 0.9998
DL = 0.2331 ppb
BEC = 14.17 ppb

Weight: <None>
Min Conc: <None>

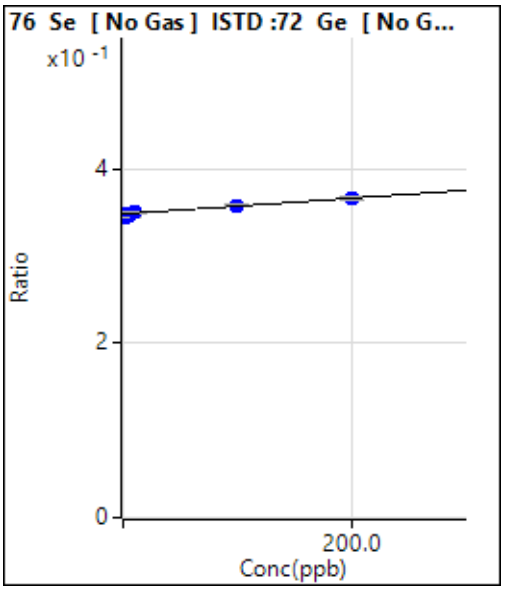



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 316.67 | 0.0004 | P | 7.2 | |
| 2 | ☐ | 2.000 | 1.966 | 2464.68 | 0.0032 | P | 3.0 | -1.7 |
| 3 | ☐ | 5.000 | 4.843 | 5595.62 | 0.0072 | P | 2.4 | -3.1 |
| 4 | ☐ | 10.000 | 9.642 | 10723.13 | 0.0139 | P | 2.2 | -3.6 |
| 5 | ☐ | 100.000 | 95.160 | 99197.46 | 0.1341 | P | 1.0 | -4.8 |
| 6 | ☐ | 200.000 | 202.442 | 206029.47 | 0.2847 | P | 2.4 | 1.2 |

y = 0.0014 * x + 4.0426E-004
R = 0.9996
DL = 0.06258 ppb
BEC = 0.2878 ppb

Weight: <None>
Min Conc: <None>

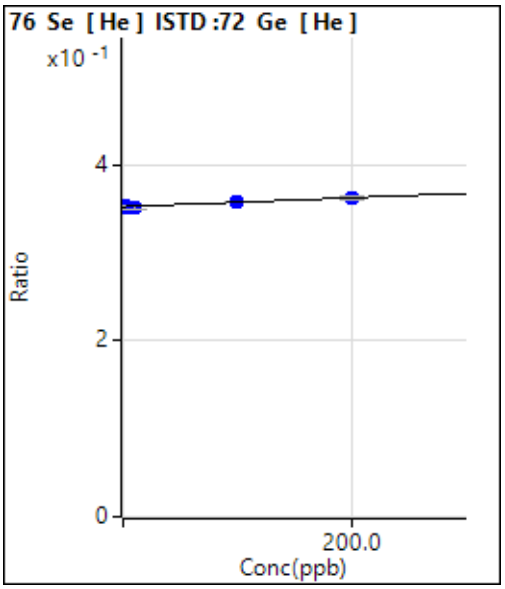
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 964449.83 | 0.3484 | P | 0.7 | |
| 2 | ☐ | 2.000 | -34.153 | 953861.89 | 0.3453 | P | 0.1 | -1807.7 |
| 3 | ☐ | 5.000 | -12.512 | 951751.63 | 0.3473 | P | 1.2 | -350.2 |
| 4 | ☐ | 10.000 | 22.069 | 956605.06 | 0.3504 | P | 0.7 | 120.7 |
| 5 | ☐ | 100.000 | 106.437 | 939797.64 | 0.3581 | P | 0.6 | 6.4 |
| 6 | ☐ | 200.000 | 196.977 | 932289.20 | 0.3664 | P | 1.0 | -1.5 |

y = 9.1040E-005 * x + 0.3484
R = 0.9813
DL = 76.06 ppb
BEC = 3827 ppb

Weight: <None>
Min Conc: <None>

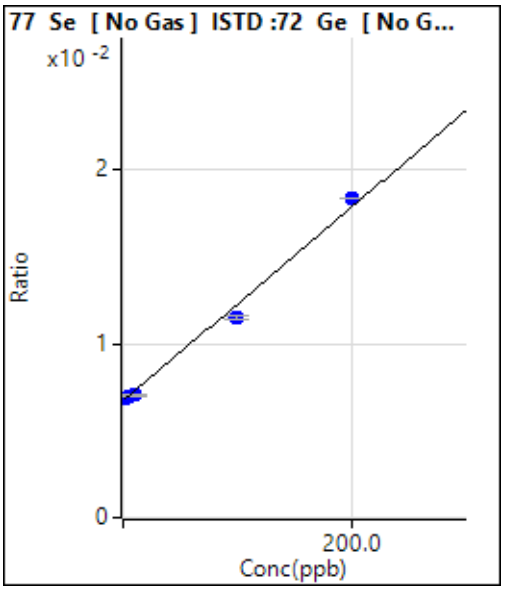



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 276120.31 | 0.3525 | P | 0.7 | |
| 2 | ☐ | 2.000 | 2.937 | 274652.09 | 0.3527 | P | 0.6 | 46.9 |
| 3 | ☐ | 5.000 | -19.736 | 272962.69 | 0.3515 | P | 0.2 | -494.7 |
| 4 | ☐ | 10.000 | -14.902 | 270475.83 | 0.3518 | P | 1.2 | -249.0 |
| 5 | ☐ | 100.000 | 116.662 | 265320.74 | 0.3586 | P | 0.2 | 16.7 |
| 6 | ☐ | 200.000 | 193.523 | 262331.56 | 0.3625 | P | 1.0 | -3.2 |

y = 5.1530E-005 * x + 0.3525
R = 0.9846
DL = 135.4 ppb
BEC = 6841 ppb

Weight: <None>
Min Conc: <None>

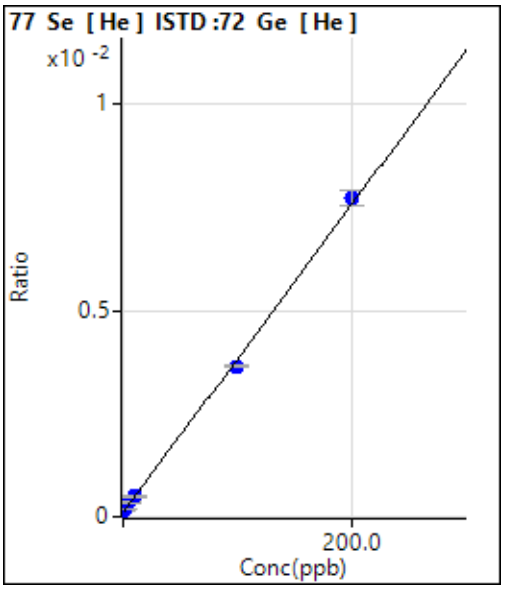
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 18893.33 | 0.0068 | P | 1.3 | |
| 2 | ☐ | 2.000 | 0.484 | 18926.85 | 0.0069 | P | 2.9 | -75.8 |
| 3 | ☐ | 5.000 | 3.393 | 19223.86 | 0.0070 | P | 1.9 | -32.1 |
| 4 | ☐ | 10.000 | 3.949 | 19230.54 | 0.0070 | P | 0.6 | -60.5 |
| 5 | ☐ | 100.000 | 84.919 | 30290.71 | 0.0115 | P | 2.3 | -15.1 |
| 6 | ☐ | 200.000 | 207.898 | 46760.28 | 0.0184 | P | 0.5 | 3.9 |

y = 5.5556E-005 * x + 0.0068
R = 0.9963
DL = 4.645 ppb
BEC = 122.9 ppb

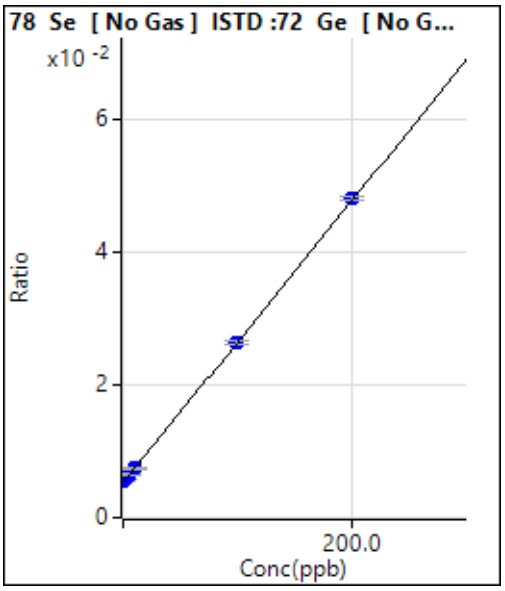
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 113.33 | 0.0001 | P | 4.8 | |
| 2 | ☐ | 2.000 | 1.171 | 146.67 | 0.0002 | P | 21.0 | -41.4 |
| 3 | ☐ | 5.000 | 5.674 | 276.68 | 0.0004 | P | 9.6 | 13.5 |
| 4 | ☐ | 10.000 | 9.252 | 376.68 | 0.0005 | P | 17.0 | -7.5 |
| 5 | ☐ | 100.000 | 93.540 | 2690.32 | 0.0036 | P | 1.4 | -6.5 |
| 6 | ☐ | 200.000 | 203.259 | 5594.58 | 0.0077 | P | 4.4 | 1.6 |

y = 3.7321E-005 * x + 1.4469E-004
R = 0.9993
DL = 0.5551 ppb
BEC = 3.877 ppb

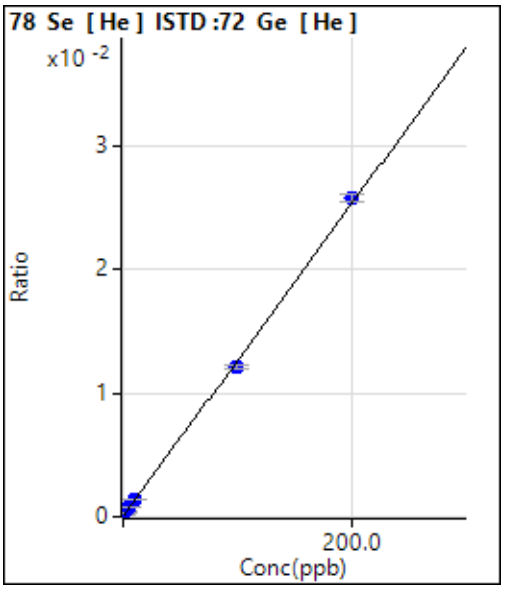
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 15248.81 | 0.0055 | P | 1.6 | |
| 2 | ☐ | 2.000 | 1.431 | 16053.06 | 0.0058 | P | 2.2 | -28.5 |
| 3 | ☐ | 5.000 | 4.536 | 17731.87 | 0.0065 | P | 3.1 | -9.3 |
| 4 | ☐ | 10.000 | 9.201 | 20355.46 | 0.0075 | P | 4.4 | -8.0 |
| 5 | ☐ | 100.000 | 98.554 | 69225.47 | 0.0264 | P | 1.5 | -1.4 |
| 6 | ☐ | 200.000 | 200.780 | 122204.65 | 0.0480 | P | 1.2 | 0.4 |

y = 2.1174E-004 * x + 0.0055
R = 1.0000
DL = 1.21 ppb
BEC = 26.02 ppb

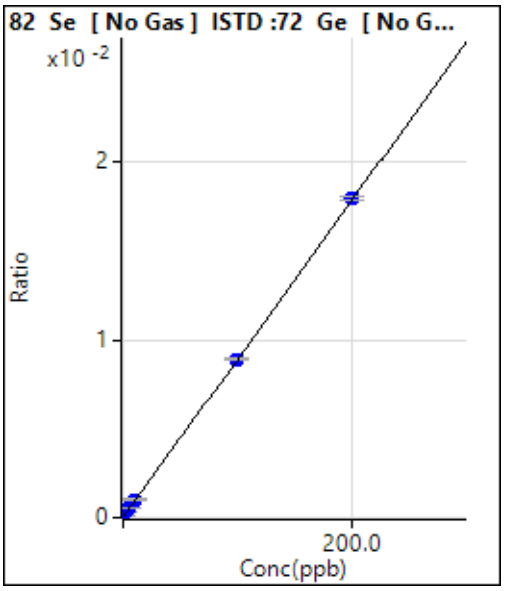
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 134.67 | 0.0002 | P | 9.2 | |
| 2 | ☐ | 2.000 | 1.723 | 303.34 | 0.0004 | P | 16.3 | -13.9 |
| 3 | ☐ | 5.000 | 4.697 | 594.01 | 0.0008 | P | 7.0 | -6.1 |
| 4 | ☐ | 10.000 | 9.783 | 1082.04 | 0.0014 | P | 5.0 | -2.2 |
| 5 | ☐ | 100.000 | 94.578 | 8966.30 | 0.0121 | P | 2.7 | -5.4 |
| 6 | ☐ | 200.000 | 202.732 | 18650.09 | 0.0258 | P | 2.3 | 1.4 |

y = 1.2629E-004 * x + 1.7189E-004
R = 0.9995
DL = 0.3746 ppb
BEC = 1.361 ppb

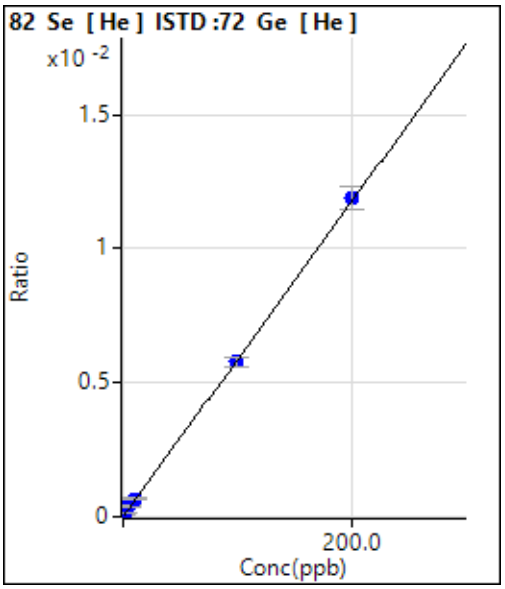
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 306.68 | 0.0001 | P | 16.5 | |
| 2 | ☐ | 2.000 | 1.873 | 766.70 | 0.0003 | P | 4.0 | -6.3 |
| 3 | ☐ | 5.000 | 5.107 | 1550.12 | 0.0006 | P | 4.5 | 2.1 |
| 4 | ☐ | 10.000 | 10.196 | 2780.35 | 0.0010 | P | 9.0 | 2.0 |
| 5 | ☐ | 100.000 | 98.931 | 23413.94 | 0.0089 | P | 2.0 | -1.1 |
| 6 | ☐ | 200.000 | 200.523 | 45723.90 | 0.0180 | P | 1.6 | 0.3 |

y = 8.9057E-005 * x + 1.1076E-004
R = 1.0000
DL = 0.6149 ppb
BEC = 1.244 ppb

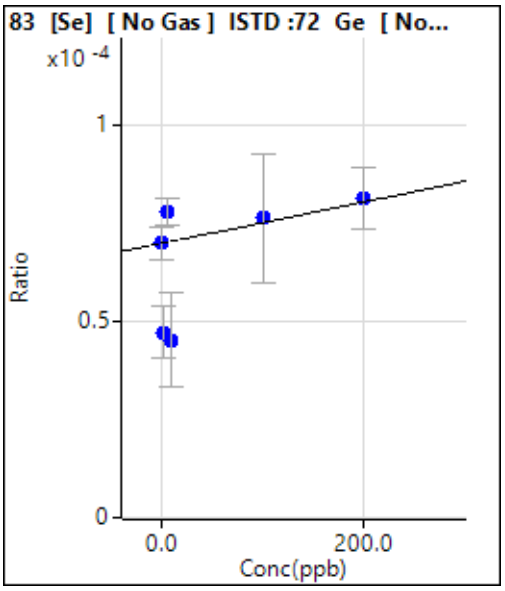
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 50.00 | 0.0001 | P | 34.9 | |
| 2 | ☐ | 2.000 | 1.681 | 126.67 | 0.0002 | P | 16.7 | -16.0 |
| 3 | ☐ | 5.000 | 6.072 | 326.68 | 0.0004 | P | 20.0 | 21.4 |
| 4 | ☐ | 10.000 | 10.420 | 520.02 | 0.0007 | P | 17.8 | 4.2 |
| 5 | ☐ | 100.000 | 97.308 | 4280.75 | 0.0058 | P | 6.3 | -2.7 |
| 6 | ☐ | 200.000 | 201.301 | 8609.59 | 0.0119 | P | 7.0 | 0.7 |

y = 5.8789E-005 * x + 6.3889E-005
R = 0.9998
DL = 1.137 ppb
BEC = 1.087 ppb

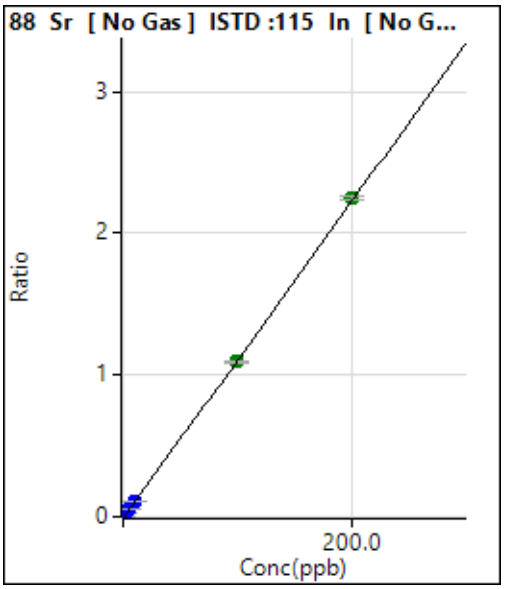
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 193.34 | 0.0001 | P | 12.2 | |
| 2 | ☐ | 2.000 | -431.078 | 130.00 | 0.0000 | P | 28.0 | -21653. |
| 3 | ☐ | 5.000 | 150.529 | 213.34 | 0.0001 | P | 9.1 | 2910.6 |
| 4 | ☐ | 10.000 | -466.543 | 123.33 | 0.0000 | P | 52.8 | -4765.4 |
| 5 | ☐ | 100.000 | 118.247 | 200.00 | 0.0001 | P | 42.7 | 18.2 |
| 6 | ☐ | 200.000 | 215.396 | 206.67 | 0.0001 | P | 19.7 | 7.7 |

y = 5.2823E-008 * x + 6.9859E-005
R = 0.5821
DL = 482.1 ppb
BEC = 1323 ppb

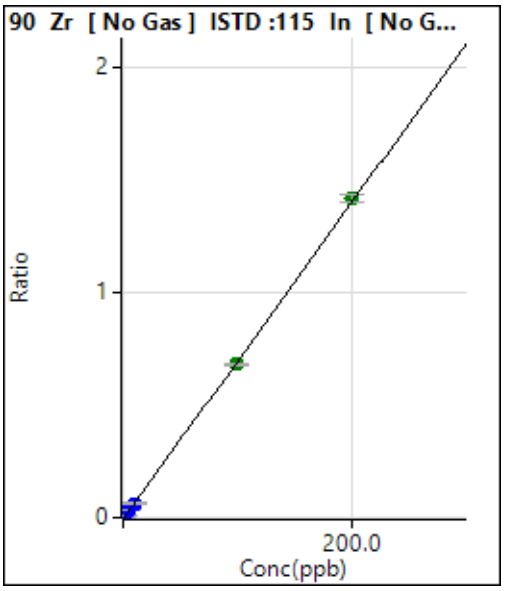
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2050.19 | 0.0006 | P | 8.6 | |
| 2 | ☐ | 2.000 | 1.968 | 81035.10 | 0.0226 | P | 1.6 | -1.6 |
| 3 | ☐ | 5.000 | 4.962 | 200779.89 | 0.0560 | P | 3.4 | -0.8 |
| 4 | ☐ | 10.000 | 9.858 | 398184.94 | 0.1108 | P | 1.7 | -1.4 |
| 5 | ☐ | 100.000 | 97.569 | 3725471.09 | 1.0912 | A | 2.1 | -2.4 |
| 6 | ☐ | 200.000 | 201.224 | 7444901.76 | 2.2499 | A | 1.4 | 0.6 |

y = 0.0112 * x + 5.7259E-004
R = 0.9999
DL = 0.01323 ppb
BEC = 0.05122 ppb

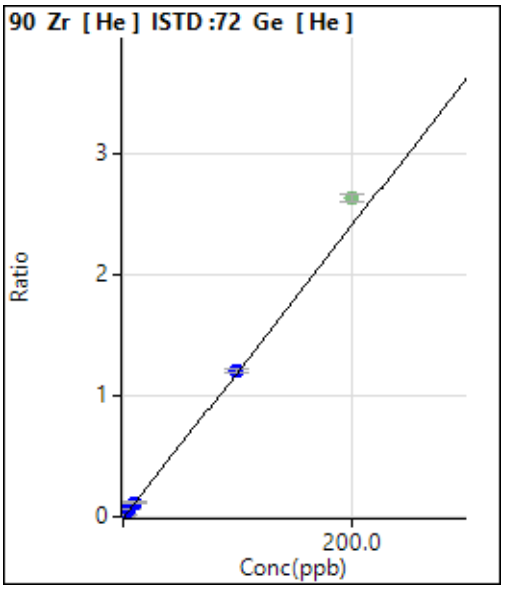
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1160.07 | 0.0003 | P | 2.5 | |
| 2 | ☐ | 2.000 | 1.612 | 41905.50 | 0.0117 | P | 3.8 | -19.4 |
| 3 | ☐ | 5.000 | 4.333 | 110428.43 | 0.0308 | P | 2.1 | -13.3 |
| 4 | ☐ | 10.000 | 9.034 | 229720.13 | 0.0639 | P | 1.5 | -9.7 |
| 5 | ☐ | 100.000 | 96.694 | 2324542.26 | 0.6809 | A | 2.2 | -3.3 |
| 6 | ☐ | 200.000 | 201.722 | 4698977.22 | 1.4201 | A | 1.9 | 0.9 |

y = 0.0070 * x + 3.2394E-004
R = 0.9998
DL = 0.003504 ppb
BEC = 0.04603 ppb

Weight: <None>
Min Conc: <None>

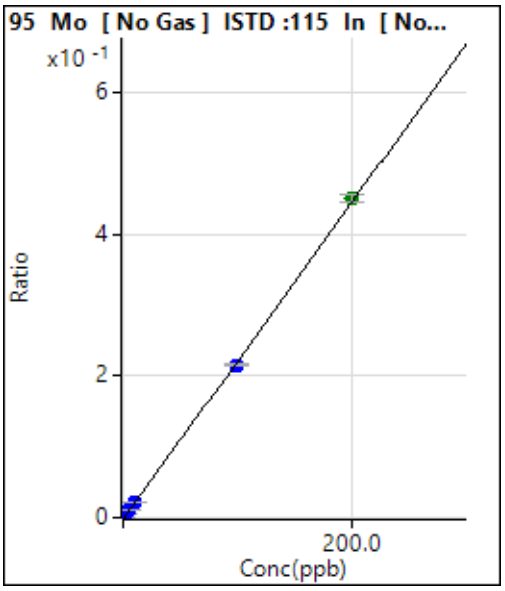



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1343.43 | 0.0017 | P | 10.7 | |
| 2 | ☐ | 2.000 | 1.668 | 17021.02 | 0.0219 | P | 1.2 | -16.6 |
| 3 | ☐ | 5.000 | 4.578 | 44252.81 | 0.0570 | P | 1.7 | -8.4 |
| 4 | ☐ | 10.000 | 9.688 | 91260.17 | 0.1187 | P | 2.0 | -3.1 |
| 5 | ☐ | 100.000 | 100.059 | 895303.56 | 1.2098 | P | 2.6 | 0.1 |
| 6 | ☑ | 200.000 | | 1904685.70 | 2.6322 | A | 2.4 | |

y = 0.0121 * x + 0.0017
R = 1.0000
DL = 0.04578 ppb
BEC = 0.1421 ppb

Weight: <None>
Min Conc: <None>

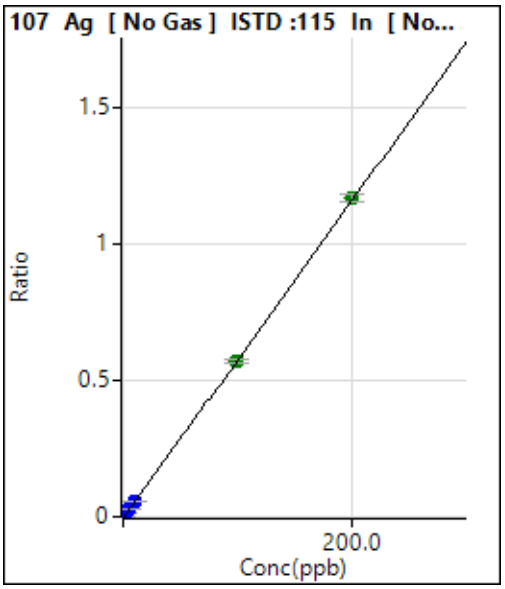
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 233.34 | 0.0001 | P | 27.6 | |
| 2 | ☐ | 2.000 | 1.858 | 15132.06 | 0.0042 | P | 3.4 | -7.1 |
| 3 | ☐ | 5.000 | 4.755 | 38274.67 | 0.0107 | P | 3.6 | -4.9 |
| 4 | ☐ | 10.000 | 9.406 | 75722.19 | 0.0211 | P | 2.4 | -5.9 |
| 5 | ☐ | 100.000 | 96.579 | 736414.84 | 0.2157 | P | 2.3 | -3.4 |
| 6 | ☐ | 200.000 | 201.748 | 1490733.83 | 0.4505 | A | 2.2 | 0.9 |

y = 0.0022 * x + 6.5128E-005
R = 0.9998
DL = 0.0242 ppb
BEC = 0.02917 ppb

Weight: <None>
Min Conc: <None>

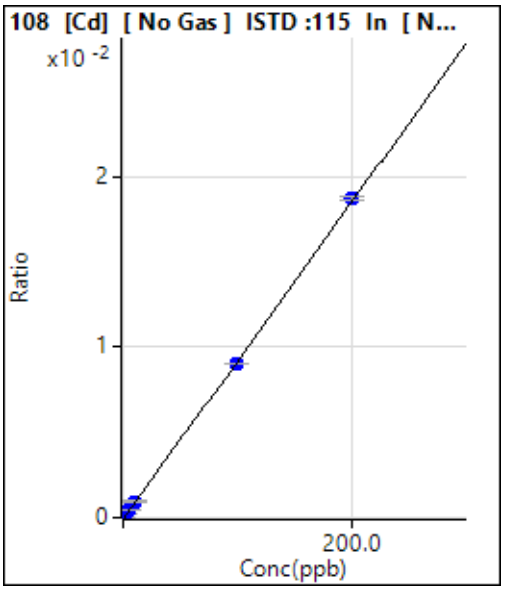



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 796.70 | 0.0002 | P | 12.6 | |
| 2 | ☐ | 2.000 | 1.995 | 42544.71 | 0.0118 | P | 3.3 | -0.2 |
| 3 | ☐ | 5.000 | 5.072 | 106669.91 | 0.0298 | P | 2.2 | 1.4 |
| 4 | ☐ | 10.000 | 10.013 | 210517.69 | 0.0586 | P | 2.7 | 0.1 |
| 5 | ☐ | 100.000 | 98.055 | 1951426.84 | 0.5716 | A | 2.0 | -1.9 |
| 6 | ☐ | 200.000 | 200.970 | 3875701.51 | 1.1713 | A | 1.9 | 0.5 |

y = 0.0058 * x + 2.2243E-004
R = 0.9999
DL = 0.01448 ppb
BEC = 0.03817 ppb

Weight: <None>
Min Conc: <None>

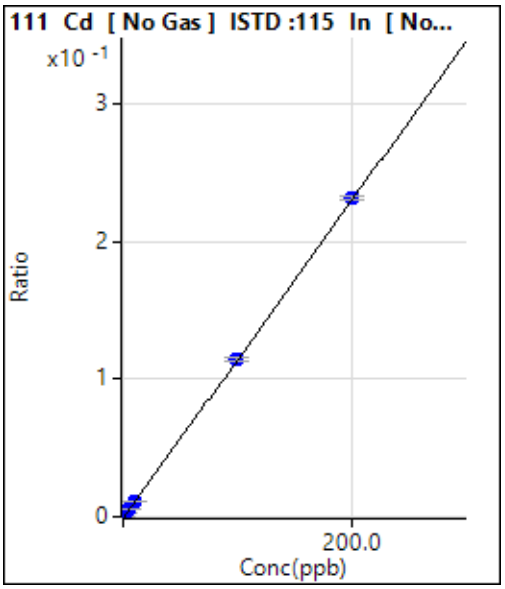
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 10.00 | 0.0000 | P | 0.3 | |
| 2 | ☐ | 2.000 | 2.067 | 700.03 | 0.0002 | P | 18.7 | 3.3 |
| 3 | ☐ | 5.000 | 5.152 | 1726.81 | 0.0005 | P | 5.2 | 3.0 |
| 4 | ☐ | 10.000 | 10.151 | 3403.84 | 0.0009 | P | 3.3 | 1.5 |
| 5 | ☐ | 100.000 | 97.092 | 30835.77 | 0.0090 | P | 0.4 | -2.9 |
| 6 | ☐ | 200.000 | 201.442 | 61997.17 | 0.0187 | P | 1.8 | 0.7 |

y = 9.2995E-005 * x + 2.7925E-006
R = 0.9998
DL = 0.0002487 ppb
BEC = 0.03003 ppb

Weight: <None>
Min Conc: <None>

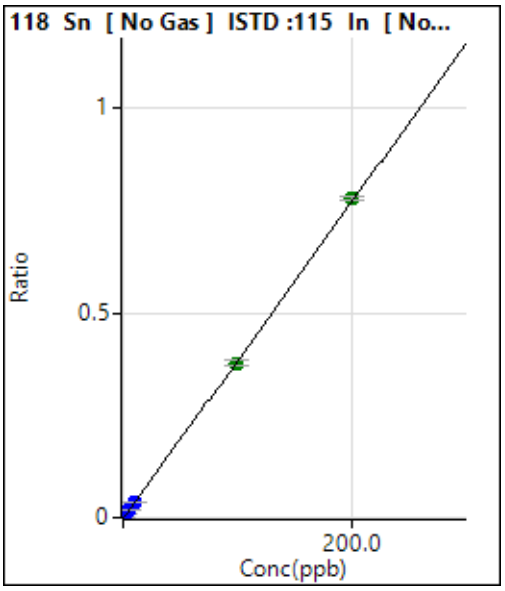



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 79.27 | 0.0000 | P | 25.2 | |
| 2 | ☐ | 2.000 | 1.919 | 8051.91 | 0.0022 | P | 6.9 | -4.1 |
| 3 | ☐ | 5.000 | 4.933 | 20522.90 | 0.0057 | P | 3.4 | -1.3 |
| 4 | ☐ | 10.000 | 9.798 | 40825.51 | 0.0114 | P | 2.4 | -2.0 |
| 5 | ☐ | 100.000 | 98.739 | 390069.23 | 0.1143 | P | 2.0 | -1.3 |
| 6 | ☐ | 200.000 | 200.643 | 768181.74 | 0.2321 | P | 1.2 | 0.3 |

y = 0.0012 * x + 2.2138E-005
R = 1.0000
DL = 0.01449 ppb
BEC = 0.01914 ppb

Weight: <None>
Min Conc: <None>

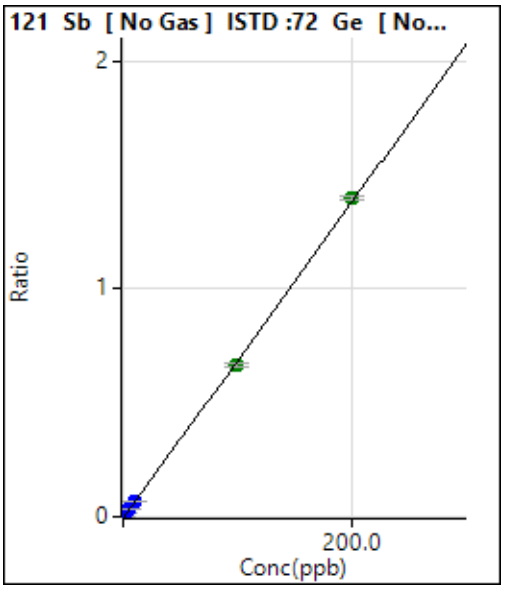
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3933.98 | 0.0011 | P | 5.3 | |
| 2 | ☐ | 2.000 | 1.961 | 31170.16 | 0.0087 | P | 0.7 | -2.0 |
| 3 | ☐ | 5.000 | 4.885 | 71599.30 | 0.0200 | P | 0.9 | -2.3 |
| 4 | ☐ | 10.000 | 9.745 | 139404.93 | 0.0388 | P | 2.1 | -2.6 |
| 5 | ☐ | 100.000 | 97.395 | 1289413.81 | 0.3777 | A | 3.0 | -2.6 |
| 6 | ☐ | 200.000 | 201.318 | 2579378.76 | 0.7795 | A | 1.4 | 0.7 |

y = 0.0039 * x + 0.0011
R = 0.9999
DL = 0.04483 ppb
BEC = 0.2841 ppb

Weight: <None>
Min Conc: <None>

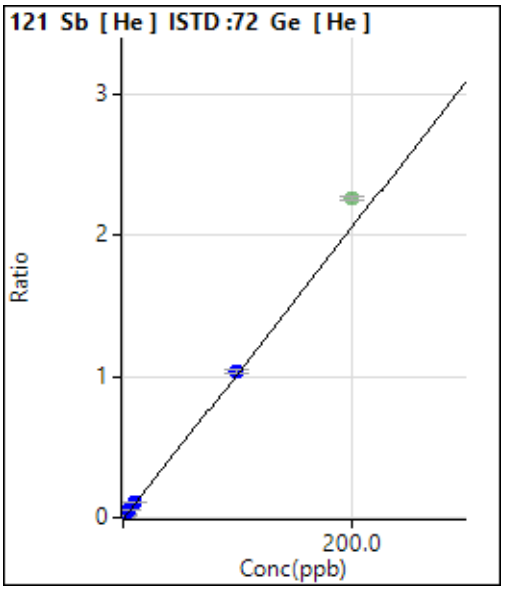



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 880.05 | 0.0003 | P | 10.9 | |
| 2 | ☐ | 2.000 | 1.891 | 37092.18 | 0.0134 | P | 2.4 | -5.5 |
| 3 | ☐ | 5.000 | 4.830 | 92645.46 | 0.0338 | P | 1.3 | -3.4 |
| 4 | ☐ | 10.000 | 9.763 | 185632.76 | 0.0680 | P | 2.2 | -2.4 |
| 5 | ☐ | 100.000 | 96.300 | 1753151.12 | 0.6680 | A | 2.0 | -3.7 |
| 6 | ☐ | 200.000 | 201.867 | 3562489.53 | 1.3999 | A | 0.8 | 0.9 |

y = 0.0069 * x + 3.1794E-004
R = 0.9998
DL = 0.01495 ppb
BEC = 0.04586 ppb

Weight: <None>
Min Conc: <None>

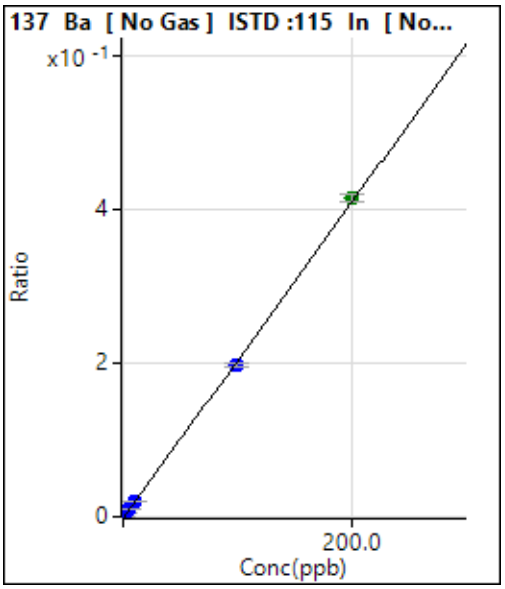
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 333.34 | 0.0004 | P | 19.8 | |
| 2 | ☐ | 2.000 | 1.960 | 16106.68 | 0.0207 | P | 2.5 | -2.0 |
| 3 | ☐ | 5.000 | 4.984 | 40335.00 | 0.0519 | P | 1.6 | -0.3 |
| 4 | ☐ | 10.000 | 10.302 | 82207.29 | 0.1069 | P | 3.4 | 3.0 |
| 5 | ☐ | 100.000 | 99.971 | 765101.92 | 1.0339 | P | 2.5 | 0.0 |
| 6 | ☑ | 200.000 | | 1639505.24 | 2.2657 | A | 0.9 | |

y = 0.0103 * x + 4.2551E-004
R = 1.0000
DL = 0.0244 ppb
BEC = 0.04116 ppb

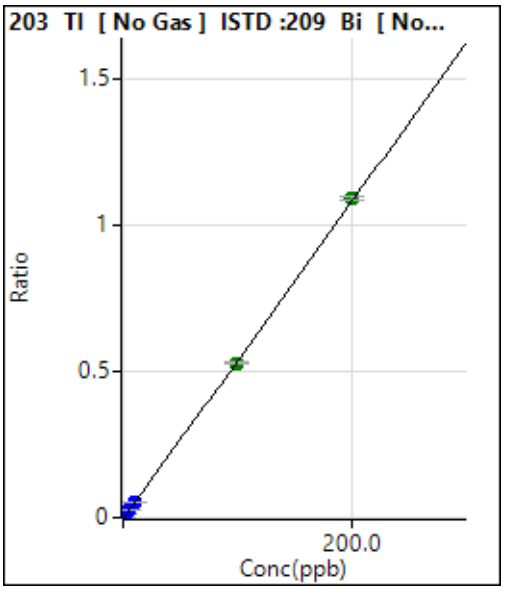
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 650.03 | 0.0002 | P | 13.1 | |
| 2 | ☐ | 2.000 | 1.939 | 14928.66 | 0.0042 | P | 2.0 | -3.1 |
| 3 | ☐ | 5.000 | 4.797 | 35889.37 | 0.0100 | P | 1.5 | -4.1 |
| 4 | ☐ | 10.000 | 9.545 | 71008.44 | 0.0198 | P | 2.4 | -4.5 |
| 5 | ☐ | 100.000 | 96.246 | 674393.61 | 0.1975 | P | 1.8 | -3.8 |
| 6 | ☐ | 200.000 | 201.906 | 1370541.07 | 0.4142 | A | 2.1 | 1.0 |

y = 0.0021 * x + 1.8147E-004
R = 0.9998
DL = 0.03472 ppb
BEC = 0.0885 ppb

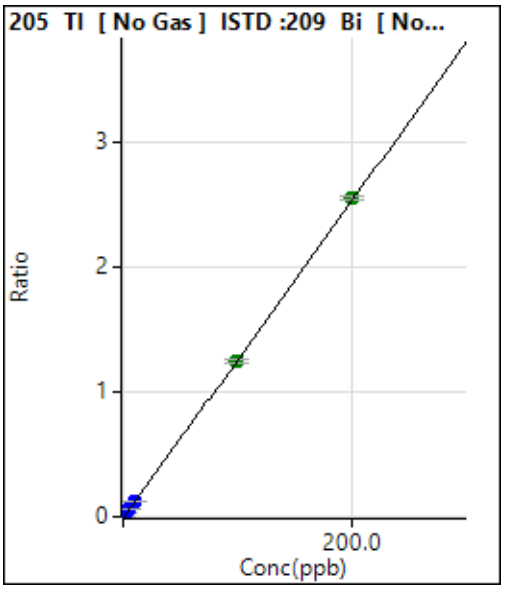
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 783.38 | 0.0002 | P | 12.8 | |
| 2 | ☐ | 2.000 | 1.983 | 40632.33 | 0.0110 | P | 2.1 | -0.9 |
| 3 | ☐ | 5.000 | 4.999 | 101224.34 | 0.0273 | P | 2.8 | 0.0 |
| 4 | ☐ | 10.000 | 9.974 | 201815.17 | 0.0543 | P | 1.1 | -0.3 |
| 5 | ☐ | 100.000 | 97.555 | 1894447.94 | 0.5296 | A | 2.3 | -2.4 |
| 6 | ☐ | 200.000 | 201.224 | 3786081.09 | 1.0921 | A | 1.2 | 0.6 |

y = 0.0054 * x + 2.1055E-004
R = 0.9999
DL = 0.01485 ppb
BEC = 0.0388 ppb

Weight: <None>
Min Conc: <None>

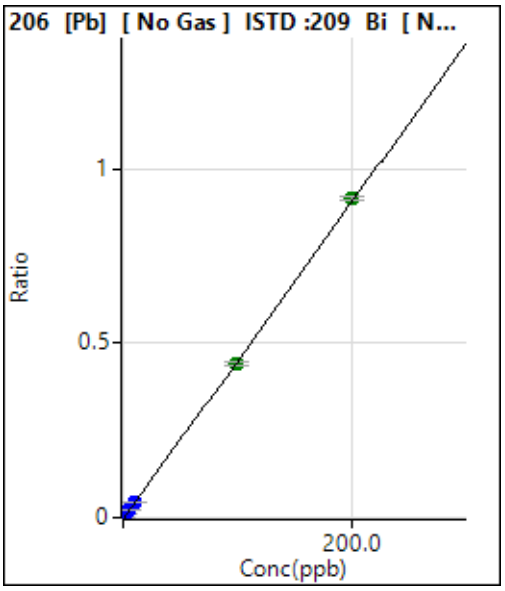



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1563.46 | 0.0004 | P | 15.3 | |
| 2 | ☐ | 2.000 | 2.018 | 96544.71 | 0.0261 | P | 2.2 | 0.9 |
| 3 | ☐ | 5.000 | 5.092 | 241227.03 | 0.0651 | P | 2.4 | 1.8 |
| 4 | ☐ | 10.000 | 10.148 | 480696.61 | 0.1294 | P | 1.7 | 1.5 |
| 5 | ☐ | 100.000 | 97.989 | 4457224.10 | 1.2459 | A | 2.1 | -2.0 |
| 6 | ☐ | 200.000 | 200.996 | 8858542.16 | 2.5552 | A | 1.5 | 0.5 |

y = 0.0127 * x + 4.2015E-004
R = 0.9999
DL = 0.01513 ppb
BEC = 0.03305 ppb

Weight: <None>
Min Conc: <None>

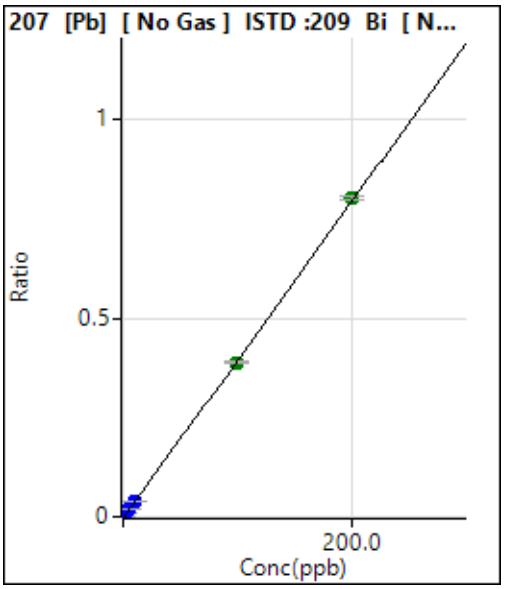
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 773.37 | 0.0002 | P | 15.5 | |
| 2 | ☐ | 2.000 | 1.955 | 33642.00 | 0.0091 | P | 1.9 | -2.2 |
| 3 | ☐ | 5.000 | 4.954 | 84019.85 | 0.0227 | P | 3.1 | -0.9 |
| 4 | ☐ | 10.000 | 10.031 | 169887.31 | 0.0457 | P | 1.2 | 0.3 |
| 5 | ☐ | 100.000 | 97.040 | 1576359.19 | 0.4406 | A | 2.0 | -3.0 |
| 6 | ☐ | 200.000 | 201.480 | 3171026.00 | 0.9147 | A | 1.7 | 0.7 |

y = 0.0045 * x + 2.0792E-004
R = 0.9998
DL = 0.02134 ppb
BEC = 0.04581 ppb

Weight: <None>
Min Conc: <None>

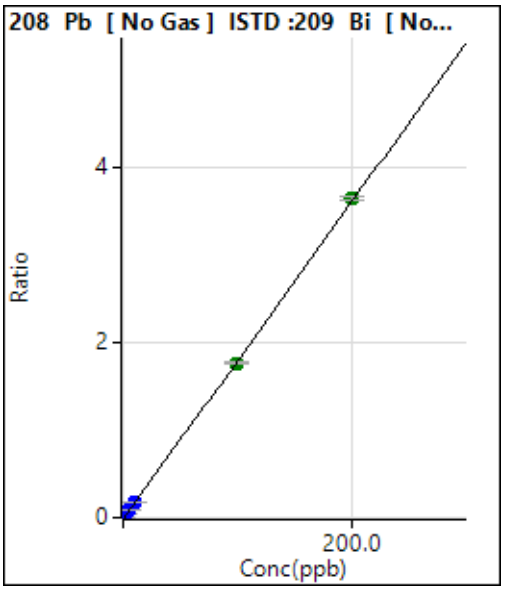



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 693.37 | 0.0002 | P | 9.8 | |
| 2 | ☐ | 2.000 | 1.998 | 30213.19 | 0.0082 | P | 1.8 | -0.1 |
| 3 | ☐ | 5.000 | 4.954 | 73852.60 | 0.0199 | P | 1.3 | -0.9 |
| 4 | ☐ | 10.000 | 9.884 | 147132.54 | 0.0396 | P | 1.0 | -1.2 |
| 5 | ☐ | 100.000 | 97.288 | 1388849.67 | 0.3882 | A | 1.7 | -2.7 |
| 6 | ☐ | 200.000 | 201.363 | 2785032.87 | 0.8033 | A | 1.1 | 0.7 |

y = 0.0040 * x + 1.8639E-004
R = 0.9999
DL = 0.01374 ppb
BEC = 0.04673 ppb

Weight: <None>
Min Conc: <None>

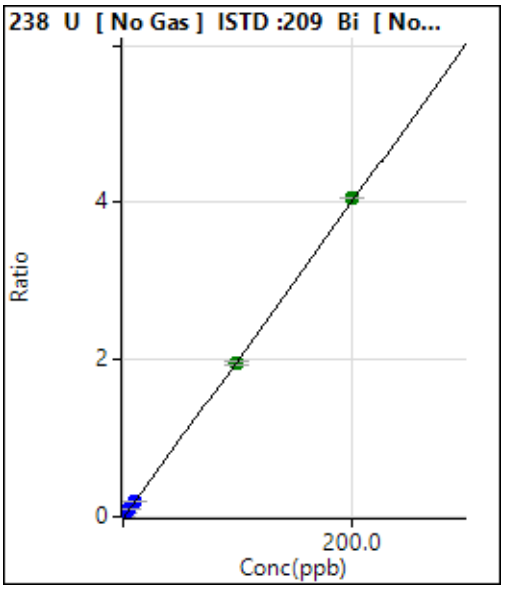
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3066.87 | 0.0008 | P | 5.7 | |
| 2 | ☐ | 2.000 | 1.966 | 135324.42 | 0.0365 | P | 1.8 | -1.7 |
| 3 | ☐ | 5.000 | 4.948 | 335773.60 | 0.0907 | P | 2.2 | -1.0 |
| 4 | ☐ | 10.000 | 9.957 | 674750.46 | 0.1817 | P | 1.4 | -0.4 |
| 5 | ☐ | 100.000 | 97.556 | 6341054.44 | 1.7725 | A | 2.0 | -2.4 |
| 6 | ☐ | 200.000 | 201.226 | 12672095.02 | 3.6552 | A | 1.2 | 0.6 |

y = 0.0182 * x + 8.2440E-004
R = 0.9999
DL = 0.00771 ppb
BEC = 0.04539 ppb

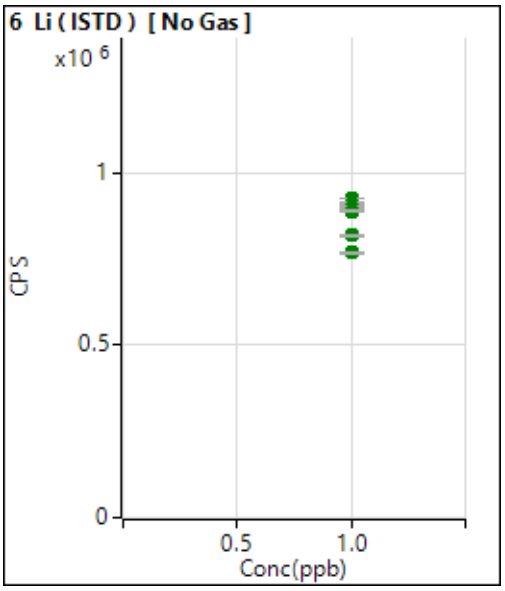
Weight: <None>
Min Conc: <None>



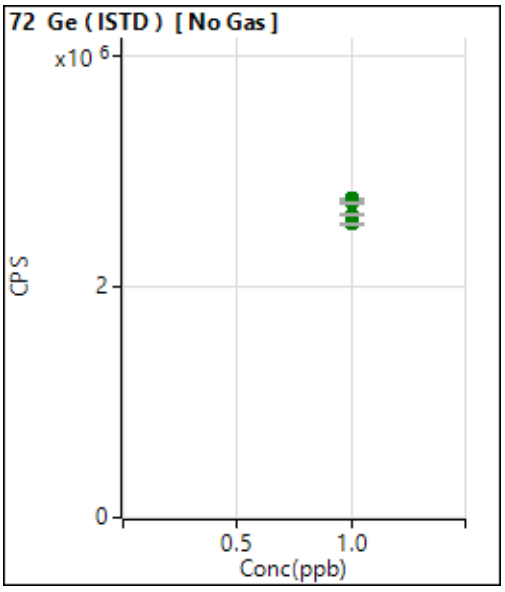

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1900.18 | 0.0005 | P | 2.5 | |
| 2 | ☐ | 2.000 | 1.845 | 139419.83 | 0.0376 | P | 1.9 | -7.7 |
| 3 | ☐ | 5.000 | 4.733 | 354555.30 | 0.0958 | P | 1.4 | -5.3 |
| 4 | ☐ | 10.000 | 9.462 | 709163.35 | 0.1909 | P | 1.1 | -5.4 |
| 5 | ☐ | 100.000 | 96.705 | 6963452.81 | 1.9465 | A | 2.5 | -3.3 |
| 6 | ☐ | 200.000 | 201.683 | 14071646.46 | 4.0590 | A | 0.4 | 0.8 |

y = 0.0201 * x + 5.1076E-004
R = 0.9998
DL = 0.001885 ppb
BEC = 0.02538 ppb

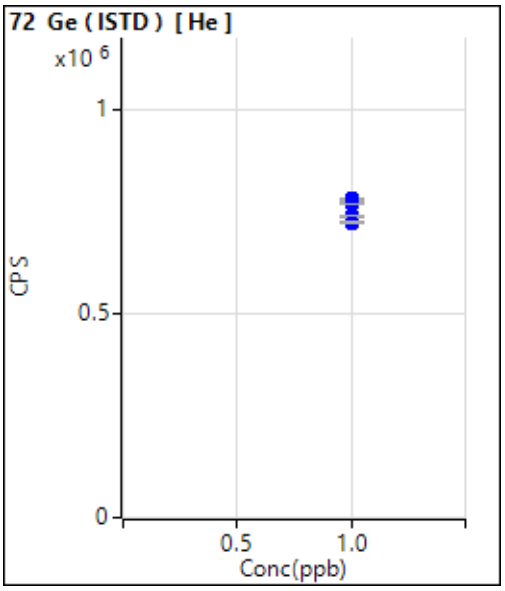
Weight: <None>
Min Conc: <None>



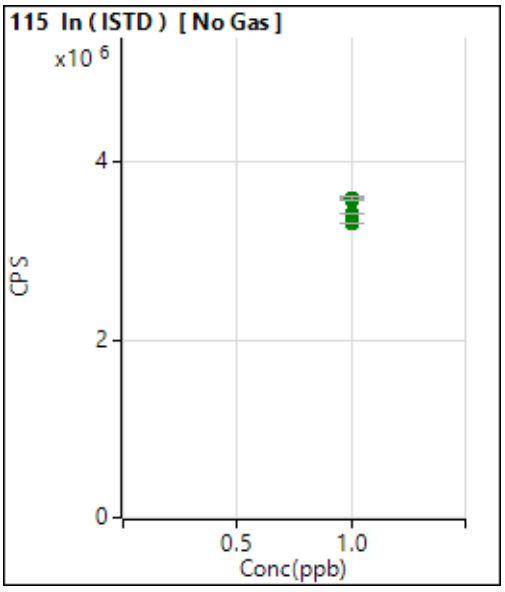

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 925046.91 | | A | 0.3 | |
| 2 | ☐ | 1.000 | | 910090.95 | | A | 0.3 | |
| 3 | ☐ | 1.000 | | 898410.34 | | A | 0.6 | |
| 4 | ☐ | 1.000 | | 887536.48 | | A | 0.6 | |
| 5 | ☐ | 1.000 | | 816416.59 | | A | 0.7 | |
| 6 | ☐ | 1.000 | | 766281.29 | | A | 0.3 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 2767984.33 | | A | 0.3 | |
| 2 | ☐ | 1.000 | | 2762231.42 | | A | 0.4 | |
| 3 | ☐ | 1.000 | | 2740635.27 | | A | 0.7 | |
| 4 | ☐ | 1.000 | | 2729773.60 | | A | 0.5 | |
| 5 | ☐ | 1.000 | | 2624311.16 | | A | 0.8 | |
| 6 | ☐ | 1.000 | | 2544719.96 | | A | 0.4 | |

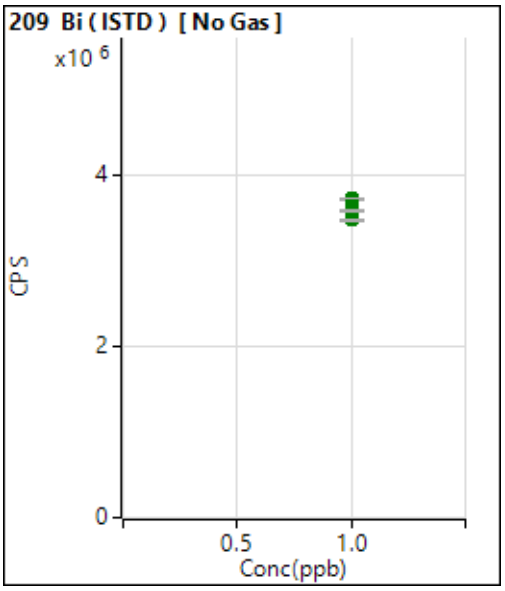



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 783220.07 | | P | 0.6 | |
| 2 | ☐ | 1.000 | | 778735.46 | | P | 0.3 | |
| 3 | ☐ | 1.000 | | 776516.79 | | P | 0.6 | |
| 4 | ☐ | 1.000 | | 768900.07 | | P | 0.2 | |
| 5 | ☐ | 1.000 | | 739983.09 | | P | 0.6 | |
| 6 | ☐ | 1.000 | | 723640.25 | | P | 0.4 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3581092.47 | | A | 0.3 | |
| 2 | ☐ | 1.000 | | 3590901.90 | | A | 0.1 | |
| 3 | ☐ | 1.000 | | 3582606.62 | | A | 0.3 | |
| 4 | ☐ | 1.000 | | 3594961.40 | | A | 0.7 | |
| 5 | ☐ | 1.000 | | 3414111.39 | | A | 0.1 | |
| 6 | ☐ | 1.000 | | 3309119.69 | | A | 0.3 | |

Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3720386.09 | | A | 0.2 | |
| 2 | ☐ | 1.000 | | 3704045.15 | | A | 0.8 | |
| 3 | ☐ | 1.000 | | 3702864.53 | | A | 0.7 | |
| 4 | ☐ | 1.000 | | 3714470.67 | | A | 0.2 | |
| 5 | ☐ | 1.000 | | 3577512.03 | | A | 0.3 | |
| 6 | ☐ | 1.000 | | 3466716.51 | | A | 0.4 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LLICV2 |
| Data File Name | 019LCV2.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T11:15:32-05:00 |
| Sample Type | LLCCV2 |
| Dilution | 1 |
| Comment | |
| ISTD Ref FileName | 010CALB.d |
| Sample QC Pass/Fail | Pass |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 2.034 | 2.034 | 4.57 | 71307 | 0.00 | 2 | |
| Be | 9 | 1 | No Gas | 1.997 | 1.997 | 5.95 | 6146 | 0.03 | 2 | |
| V | 51 | 2 | He | 1.512 | 1.512 | 5.72 | 15371 | 0.01 | 2 | |
| Cr | 52 | 2 | He | 1.948 | 1.948 | 8.95 | 19658 | 0.01 | 2 | |
| Fe | 56 | 2 | He | 200.778 | 200.778 | 2.07 | 1235253 | 0.02 | 200 | |
| Se | 78 | 2 | He | 2.042 | 2.042 | 7.41 | 326 | 0.63 | 2 | |
| As | 75 | 2 | He | 1.951 | 1.951 | 5.58 | 2386 | 0.08 | 2 | |
| Ca | 44 | 2 | He | 211.686 | 211.686 | 5.49 | 8283 | 2.56 | 200 | |
| Na | 23 | 2 | He | 202.096 | 202.096 | 2.03 | 242339 | 0.08 | 200 | |
| Mg | 24 | 2 | He | 199.073 | 199.073 | 1.12 | 111542 | 0.18 | 200 | |
| K | 39 | 2 | He | 194.832 | 194.832 | 1.47 | 219294 | 0.09 | 200 | |
| Mn | 55 | 2 | He | 1.966 | 1.966 | 1.26 | 10514 | 0.02 | 2 | |
| Co | 59 | 2 | He | 2.055 | 2.055 | 4.02 | 20486 | 0.01 | 2 | |
| Ni | 60 | 2 | He | 2.004 | 2.004 | 3.61 | 5231 | 0.04 | 2 | |
| Cu | 63 | 2 | He | 2.135 | 2.135 | 6.75 | 14895 | 0.01 | 2 | |
| Zn | 66 | 2 | He | 1.964 | 1.964 | 5.15 | 3400 | 0.06 | 2 | |
| Al | 27 | 2 | He | 1.580 | 1.580 | 17.02 | 1477 | 0.11 | 2 | |
| B | 11 | 1 | No Gas | 11.335 | 11.335 | 4.22 | 28163 | 0.04 | 10 | |
| Al | 27 | 1 | No Gas | 2.044 | 2.044 | 1.15 | 62633 | 0.00 | 2 | |
| Si | 28 | 1 | No Gas | 7.653 | 7.653 | 15.66 | 307878 | 0.00 | 10 | |
| Ag | 107 | 1 | No Gas | 2.051 | 2.051 | 2.33 | 43023 | 0.00 | 2 | |
| Cd | 111 | 1 | No Gas | 2.046 | 2.046 | 2.59 | 8441 | 0.02 | 2 | |
| Sr | 88 | 1 | No Gas | 1.992 | 1.992 | 0.68 | 80700 | 0.00 | 2 | |
| Mo | 95 | 1 | No Gas | 1.978 | 1.978 | 2.97 | 15836 | 0.01 | 2 | |
| Sn | 118 | 1 | No Gas | 2.015 | 2.015 | 1.91 | 31411 | 0.01 | 2 | |
| Sb | 121 | 1 | No Gas | 1.995 | 1.995 | 2.07 | 38135 | 0.01 | 2 | |
| Ba | 137 | 1 | No Gas | 1.981 | 1.981 | 1.61 | 14992 | 0.01 | 2 | |
| Tl | 205 | 1 | No Gas | 2.047 | 2.047 | 0.34 | 99037 | 0.00 | 2 | |
| Tl | 203 | 1 | No Gas | 2.021 | 2.021 | 2.04 | 41877 | 0.00 | 2 | |
| Pb | 208 | 1 | No Gas | 2.004 | 2.004 | 1.32 | 139439 | 0.00 | 2 | |
| U | 238 | 1 | No Gas | 1.916 | 1.916 | 0.95 | 146326 | 0.00 | 2 | |
| Ca | 43 | 2 | He | 224.341 | 224.341 | 8.92 | 520 | 43.14 | 200 | |
| Sb | 121 | 2 | He | 1.993 | 1.993 | 1.84 | 17145 | 0.01 | 2 | |
| Ti | 47 | 2 | He | 1.861 | 1.861 | 16.25 | 403 | 0.46 | 200 | |
| Cu | 63 | 1 | No Gas | 2.072 | 2.072 | 2.49 | 31002 | 0.01 | 2 | |
| Se | 82 | 1 | No Gas | 2.115 | 2.115 | 12.71 | 807 | 0.26 | 2 | |
| Zr | 90 | 1 | No Gas | 1.714 | 1.714 | 2.14 | 43771 | 0.00 | 2 | |
| Zr | 90 | 2 | He | 1.766 | 1.766 | 5.41 | 18636 | 0.01 | 2 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 838232 | 0.38 | 925047 | 90.62 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ge | 72 | 2 | He | 758642 | 1.02 | 783220 | 96.86 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2695426 | 0.82 | 2767984 | 97.38 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3533463 | 0.28 | 3581092 | 98.67 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3745374 | 1.16 | 3720386 | 100.67 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LLICV5 |
| Data File Name | 020LCV5.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T11:17:56-05:00 |
| Sample Type | LLCCV5 |
| Dilution | 1 |
| Comment | |
| ISTD Ref FileName | 010CALB.d |
| Sample QC Pass/Fail | Pass |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 5.210 | 5.210 | 1.31 | 104687 | 0.00 | 5 | |
| Be | 9 | 1 | No Gas | 5.113 | 5.113 | 3.31 | 15313 | 0.03 | 5 | |
| V | 51 | 2 | He | 4.654 | 4.654 | 2.68 | 32595 | 0.01 | 5 | |
| Cr | 52 | 2 | He | 5.167 | 5.167 | 2.05 | 39717 | 0.01 | 5 | |
| Fe | 56 | 2 | He | 522.511 | 522.511 | 2.67 | 3163251 | 0.02 | 500 | |
| Se | 78 | 2 | He | 5.310 | 5.310 | 13.52 | 635 | 0.84 | 5 | |
| As | 75 | 2 | He | 5.063 | 5.063 | 5.45 | 5665 | 0.09 | 5 | |
| Ca | 44 | 2 | He | 520.747 | 520.747 | 5.36 | 19397 | 2.68 | 500 | |
| Na | 23 | 2 | He | 519.818 | 519.818 | 2.61 | 516445 | 0.10 | 500 | |
| Mg | 24 | 2 | He | 517.483 | 517.483 | 2.03 | 285593 | 0.18 | 500 | |
| K | 39 | 2 | He | 501.939 | 501.939 | 2.89 | 430532 | 0.12 | 500 | |
| Mn | 55 | 2 | He | 5.220 | 5.220 | 1.87 | 26509 | 0.02 | 5 | |
| Co | 59 | 2 | He | 5.151 | 5.151 | 2.95 | 50556 | 0.01 | 5 | |
| Ni | 60 | 2 | He | 5.302 | 5.302 | 2.59 | 13340 | 0.04 | 5 | |
| Cu | 63 | 2 | He | 5.377 | 5.377 | 4.59 | 36385 | 0.01 | 5 | |
| Zn | 66 | 2 | He | 5.103 | 5.103 | 3.18 | 7385 | 0.07 | 5 | |
| Al | 27 | 2 | He | 4.846 | 4.846 | 13.96 | 2650 | 0.18 | 5 | |
| B | 11 | 1 | No Gas | 26.144 | 26.144 | 0.60 | 51555 | 0.05 | 25 | |
| Al | 27 | 1 | No Gas | 4.999 | 4.999 | 3.42 | 104741 | 0.00 | 5 | |
| Si | 28 | 1 | No Gas | 22.680 | 22.680 | 2.29 | 414876 | 0.01 | 25 | |
| Ag | 107 | 1 | No Gas | 5.186 | 5.186 | 2.83 | 107634 | 0.00 | 5 | |
| Cd | 111 | 1 | No Gas | 5.110 | 5.110 | 3.27 | 20983 | 0.02 | 5 | |
| Sr | 88 | 1 | No Gas | 5.138 | 5.138 | 2.08 | 205106 | 0.00 | 5 | |
| Mo | 95 | 1 | No Gas | 4.820 | 4.820 | 2.56 | 38278 | 0.01 | 5 | |
| Sn | 118 | 1 | No Gas | 5.043 | 5.043 | 1.81 | 72823 | 0.01 | 5 | |
| Sb | 121 | 1 | No Gas | 5.083 | 5.083 | 3.12 | 95449 | 0.01 | 5 | |
| Ba | 137 | 1 | No Gas | 5.025 | 5.025 | 2.65 | 37079 | 0.01 | 5 | |
| Tl | 205 | 1 | No Gas | 5.248 | 5.248 | 1.18 | 252927 | 0.00 | 5 | |
| Tl | 203 | 1 | No Gas | 5.175 | 5.175 | 1.15 | 106594 | 0.00 | 5 | |
| Pb | 208 | 1 | No Gas | 5.134 | 5.134 | 1.40 | 354390 | 0.00 | 5 | |
| U | 238 | 1 | No Gas | 4.811 | 4.811 | 1.05 | 366718 | 0.00 | 5 | |
| Ca | 43 | 2 | He | 533.082 | 533.082 | 3.88 | 1170 | 45.56 | 500 | |
| Sb | 121 | 2 | He | 4.976 | 4.976 | 1.70 | 42061 | 0.01 | 5 | |
| Ti | 47 | 2 | He | 5.108 | 5.108 | 11.49 | 1083 | 0.47 | 5 | |
| Cu | 63 | 1 | No Gas | 5.212 | 5.212 | 2.20 | 75259 | 0.01 | 5 | |
| Se | 82 | 1 | No Gas | 5.018 | 5.018 | 11.58 | 1497 | 0.34 | 5 | |
| Zr | 90 | 1 | No Gas | 4.518 | 4.518 | 1.39 | 113577 | 0.00 | 5 | |
| Zr | 90 | 2 | He | 4.698 | 4.698 | 1.80 | 47109 | 0.01 | 5 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 822542 | 0.38 | 925047 | 88.92 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ge | 72 | 2 | He | 753956 | 1.34 | 783220 | 96.26 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2684520 | 0.33 | 2767984 | 96.98 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3535441 | 0.97 | 3581092 | 98.73 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3767748 | 0.62 | 3720386 | 101.27 | 70 | 120 | |

# Initial Calibration Blank (ICB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICB |
| Data File Name | 021_ICB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T11:20:20-05:00 |
| Sample Type | ICB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | -0.026 | -251.7 | 47714 | 1.1 | 0.5 | |
| Be | 9 | 1 | No Gas | 0.012 | 95.5 | 118 | 28.1 | 0.5 | |
| V | 51 | 2 | He | -0.485 | -2.7 | 4286 | 1.9 | 2.5 | |
| Cr | 52 | 2 | He | 0.073 | 60.9 | 7819 | 3.6 | 2.5 | |
| Fe | 56 | 2 | He | 2.924 | 3.1 | 36936 | 1.2 | 100 | |
| Se | 78 | 2 | He | -0.100 | -35.6 | 121 | 2.5 | 1 | |
| As | 75 | 2 | He | -0.006 | -226.9 | 300 | 5.1 | 2.5 | |
| Ca | 44 | 2 | He | 28.625 | 10.6 | 1627 | 6.8 | 100 | |
| Na | 23 | 2 | He | 1.356 | 34.8 | 67015 | 0.8 | 100 | |
| Mg | 24 | 2 | He | 1.461 | 21.0 | 2384 | 7.3 | 100 | |
| K | 39 | 2 | He | -3.906 | -21.8 | 80719 | 0.4 | 100 | |
| Mn | 55 | 2 | He | 0.080 | 17.3 | 1147 | 5.8 | 2.5 | |
| Co | 59 | 2 | He | 0.006 | 44.6 | 370 | 7.2 | 2.5 | |
| Ni | 60 | 2 | He | 0.087 | 54.2 | 470 | 24.5 | 2.5 | |
| Cu | 63 | 2 | He | 0.066 | 2.9 | 1020 | 1.0 | 1 | |
| Zn | 66 | 2 | He | 0.431 | 1.3 | 1430 | 0.7 | 2.5 | |
| Al | 27 | 2 | He | 1.602 | 18.5 | 1483 | 7.4 | 5 | |
| B | 11 | 1 | No Gas | 1.254 | 16.7 | 11413 | 3.3 | 0.5 | ICB Main CR1 Failed |
| Al | 27 | 1 | No Gas | 1.620 | 4.9 | 56497 | 2.2 | 5 | |
| Si | 28 | 1 | No Gas | -0.659 | -127.4 | 247708 | 2.9 | 10 | |
| Ag | 107 | 1 | No Gas | -0.002 | -153.8 | 753 | 5.5 | 2.5 | |
| Cd | 111 | 1 | No Gas | 0.000 | 3483.1 | 79 | 22.3 | 1 | |
| Sr | 88 | 1 | No Gas | 0.077 | 4.8 | 5061 | 2.0 | 2.5 | |
| Mo | 95 | 1 | No Gas | 0.008 | 73.3 | 290 | 15.8 | 2.5 | |
| Sn | 118 | 1 | No Gas | 0.131 | 11.7 | 5668 | 3.0 | 5 | |
| Sb | 121 | 1 | No Gas | 0.033 | 12.2 | 1467 | 4.4 | 2.5 | |
| Ba | 137 | 1 | No Gas | 0.168 | 2.7 | 1860 | 2.8 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.002 | 118.0 | 1697 | 8.3 | 1 | |
| Tl | 203 | 1 | No Gas | -0.001 | -240.9 | 773 | 6.1 | 1 | |
| Pb | 208 | 1 | No Gas | 0.010 | 46.7 | 3774 | 8.6 | 2.5 | |
| U | 238 | 1 | No Gas | 0.003 | 62.9 | 2167 | 7.1 | 2.5 | |
| Ca | 43 | 2 | He | 22.581 | 55.7 | 90 | 29.4 | 100 | |
| Sb | 121 | 2 | He | 0.036 | 54.1 | 627 | 26.3 | 2.5 | |
| Ti | 47 | 2 | He | 0.080 | 122.2 | 27 | 78.1 | 2.5 | |
| Se | 82 | 1 | No Gas | -0.009 | -4010.0 | 297 | 29.1 | 1 | |
| Zr | 90 | 1 | No Gas | 0.086 | 6.7 | 3274 | 3.9 | 2.5 | |
| Zr | 90 | 2 | He | 0.082 | 4.6 | 2107 | 1.5 | 2.5 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 827068 | 0.41 | 925047 | 89.41 | 70 | 120 | |
| Ge | 72 | 2 | He | 757847 | 0.30 | 783220 | 96.76 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2693886 | 0.80 | 2767984 | 97.32 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3531725 | 1.18 | 3581092 | 98.62 | 70 | 120 | |

# Initial Calibration Blank (ICB) Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 3760713 | 0.35 | 3720386 | 101.08 | 70 | 120 | |

# Interference Check Solution A (ICS-A) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICSA |
| Data File Name | 023ICSA.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T11:25:08-05:00 |
| Sample Type | ICSA |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 0.552 | 4.8 | 50921 | 0.4 | 0 | ICSA Main CR1 Failed |
| Be | 9 | 1 | No Gas | 0.031 | 11.3 | 165 | 6.1 | 0 | ICSA Main CR1 Failed |
| V | 51 | 2 | He | -0.194 | -10.6 | 5679 | 1.8 | 0 | ICSA Main CR1 Failed |
| Cr | 52 | 2 | He | 0.867 | 4.4 | 12342 | 2.4 | 0 | ICSA Main CR1 Failed |
| Fe | 56 | 2 | He | 106060.794 | 1.3 | 617317031 | 0.7 | 0 | |
| Se | 78 | 2 | He | 0.000 | 79286.7 | 125 | 2.4 | 0 | ICSA Main CR1 Failed |
| As | 75 | 2 | He | 0.380 | 7.6 | 683 | 3.5 | 0 | ICSA Main CR1 Failed |
| Ca | 44 | 2 | He | 100050.769 | 1.8 | 3497181 | 1.5 | 0 | |
| Na | 23 | 2 | He | 107380.331 | 1.7 | 90163135 | 0.8 | 0 | |
| Mg | 24 | 2 | He | 106097.250 | 2.0 | 56320392 | 1.2 | 0 | |
| K | 39 | 2 | He | 105886.743 | 1.8 | 70991019 | 1.1 | 0 | |
| Mn | 55 | 2 | He | 1.915 | 3.5 | 9860 | 2.5 | 0 | ICSA Main CR1 Failed |
| Co | 59 | 2 | He | 1.061 | 1.1 | 10314 | 2.1 | 0 | ICSA Main CR1 Failed |
| Ni | 60 | 2 | He | 1.184 | 0.3 | 3070 | 1.2 | 0 | ICSA Main CR1 Failed |
| Cu | 63 | 2 | He | 0.824 | 3.7 | 5868 | 2.4 | 0 | ICSA Main CR1 Failed |
| Zn | 66 | 2 | He | 3.084 | 4.2 | 4651 | 3.9 | 0 | ICSA Main CR1 Failed |
| Al | 27 | 2 | He | 106755.778 | 2.3 | 37428586 | 1.5 | 0 | |
| B | 11 | 1 | No Gas | 2.795 | 13.1 | 13103 | 3.5 | 0 | |
| Al | 27 | 1 | No Gas | 100386.089 | 1.5 | 1365788300 | 0.9 | 0 | |
| Si | 28 | 1 | No Gas | 29.918 | 6.5 | 443184 | 3.4 | 0 | |
| Ag | 107 | 1 | No Gas | 0.021 | 23.7 | 1120 | 8.5 | 0 | ICSA Main CR1 Failed |
| Cd | 111 | 1 | No Gas | 0.702 | 5.1 | 2705 | 4.6 | 0 | ICSA Main CR1 Failed |
| Sr | 88 | 1 | No Gas | 0.971 | 0.5 | 37074 | 1.2 | 0 | ICSA Main CR1 Failed |
| Mo | 95 | 1 | No Gas | 2116.497 | 1.8 | 15326118 | 1.1 | 0 | |
| Sn | 118 | 1 | No Gas | 0.293 | 7.0 | 7232 | 2.9 | 0 | ICSA Main CR1 Failed |
| Sb | 121 | 1 | No Gas | 0.116 | 13.3 | 2857 | 8.9 | 0 | ICSA Main CR1 Failed |
| Ba | 137 | 1 | No Gas | 0.555 | 7.4 | 4281 | 5.9 | 0 | ICSA Main CR1 Failed |
| Tl | 205 | 1 | No Gas | 0.004 | 110.1 | 1600 | 10.9 | 0 | ICSA Main CR1 Failed |
| Tl | 203 | 1 | No Gas | 0.001 | 253.8 | 747 | 8.9 | 0 | ICSA Main CR1 Failed |
| Pb | 208 | 1 | No Gas | 0.933 | 3.3 | 60684 | 3.0 | 0 | ICSA Main CR1 Failed |
| U | 238 | 1 | No Gas | 0.011 | 14.3 | 2524 | 4.3 | 0 | ICSA Main CR1 Failed |
| Ca | 43 | 2 | He | 103803.421 | 2.9 | 212502 | 2.4 | 0 | |
| Sb | 121 | 2 | He | 0.113 | 13.8 | 1230 | 10.0 | 0 | ICSA Main CR1 Failed |
| Ti | 47 | 2 | He | 2122.867 | 1.2 | 431993 | 0.7 | 0 | |
| Se | 82 | 1 | No Gas | 0.255 | 30.8 | 340 | 5.1 | 0 | ICSA Main CR1 Failed |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 778955 | 0.92 | 925047 | 84.21 | 70 | 120 | |
| Ge | 72 | 2 | He | 729151 | 0.98 | 783220 | 93.10 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2547556 | 0.62 | 2767984 | 92.04 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3243479 | 0.79 | 3581092 | 90.57 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3416898 | 0.45 | 3720386 | 91.84 | 70 | 120 | |

# Interference Check Solution AB (ICS-AB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICSAB |
| Data File Name | 024ICSB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T11:27:36-05:00 |
| Sample Type | ICSB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Exp Value | %Rec | %Low | %High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 101.640 | 2.129 | 1182118 | 1.56 | 100 | 101.6 | 180 | 120 | ICSB Main CR1 Failed |
| Be | 9 | 1 | No Gas | 92.485 | 2.369 | 281166 | 1.94 | 100 | 92.5 | 80 | 120 | |
| V | 51 | 2 | He | 107.067 | 2.926 | 592774 | 1.21 | 100 | 107.1 | 80 | 120 | |
| Cr | 52 | 2 | He | 104.174 | 3.259 | 655590 | 1.68 | 100 | 104.2 | 80 | 120 | |
| Fe | 56 | 2 | He | 113273.001 | 2.697 | 676703897 | 1.01 | 100 | 113273.0 | 80 | 120 | ICSB Main CR1 Failed |
| Se | 78 | 2 | He | 109.818 | 4.820 | 10507 | 3.89 | 100 | 109.8 | 80 | 120 | |
| As | 75 | 2 | He | 109.213 | 3.201 | 115081 | 1.59 | 100 | 109.2 | 80 | 120 | |
| Ca | 44 | 2 | He | 108170.327 | 3.555 | 3880374 | 1.87 | 100 | 108170.3 | 80 | 120 | |
| Na | 23 | 2 | He | 114958.092 | 2.917 | 99071625 | 1.36 | 100 | 114958.1 | 80 | 120 | ICSB Main CR1 Failed |
| Mg | 24 | 2 | He | 113645.819 | 3.368 | 61918774 | 1.73 | 100 | 113645.8 | 80 | 120 | ICSB Main CR1 Failed |
| K | 39 | 2 | He | 114324.473 | 3.104 | 78663922 | 1.43 | 100 | 114324.5 | 80 | 120 | |
| Mn | 55 | 2 | He | 106.040 | 2.653 | 520220 | 0.98 | 100 | 106.0 | 80 | 120 | |
| Co | 59 | 2 | He | 102.164 | 2.968 | 989771 | 1.51 | 100 | 102.2 | 80 | 120 | |
| Ni | 60 | 2 | He | 101.829 | 2.303 | 249738 | 0.62 | 100 | 101.8 | 80 | 120 | |
| Cu | 63 | 2 | He | 100.448 | 2.374 | 664762 | 0.72 | 100 | 100.4 | 80 | 120 | |
| Zn | 66 | 2 | He | 106.430 | 2.888 | 135672 | 1.31 | 100 | 106.4 | 80 | 120 | |
| Al | 27 | 2 | He | 104650.542 | 3.636 | 37657397 | 1.96 | 100 | 104650.5 | 80 | 120 | ICSB Main CR1 Failed |
| B | 11 | 1 | No Gas | 503.407 | 1.604 | 839223 | 1.25 | 100 | 503.4 | 80 | 120 | |
| Al | 27 | 1 | No Gas | 97821.425 | 2.927 | 1364617260 | 1.90 | 100 | 97821.4 | 80 | 120 | ICSB Main CR1 Failed |
| Si | 28 | 1 | No Gas | 549.461 | 2.059 | 4094056 | 0.86 | 100 | 549.5 | 80 | 120 | |
| Ag | 107 | 1 | No Gas | 103.691 | 0.915 | 2010967 | 1.53 | 100 | 103.7 | 80 | 120 | |
| Cd | 111 | 1 | No Gas | 105.289 | 0.846 | 405332 | 1.22 | 100 | 105.3 | 80 | 120 | |
| Sr | 88 | 1 | No Gas | 110.468 | 0.170 | 4110108 | 0.67 | 100 | 110.5 | 80 | 120 | |
| Mo | 95 | 1 | No Gas | 2191.583 | 0.775 | 16280225 | 1.37 | 100 | 2191.6 | 80 | 120 | ICSB Main CR1 Failed |
| Sn | 118 | 1 | No Gas | 108.438 | 1.161 | 1398627 | 1.74 | 100 | 108.4 | 80 | 120 | |
| Sb | 121 | 1 | No Gas | 107.754 | 2.196 | 1952320 | 1.25 | 100 | 107.8 | 80 | 120 | |
| Ba | 137 | 1 | No Gas | 106.687 | 0.733 | 728428 | 1.23 | 100 | 106.7 | 80 | 120 | |
| Tl | 205 | 1 | No Gas | 93.563 | 2.294 | 4105141 | 2.21 | 100 | 93.6 | 80 | 120 | |
| Tl | 203 | 1 | No Gas | 92.741 | 2.018 | 1737194 | 1.94 | 100 | 92.7 | 80 | 120 | |
| Pb | 208 | 1 | No Gas | 108.079 | 1.574 | 6775820 | 1.61 | 100 | 108.1 | 80 | 120 | |
| U | 238 | 1 | No Gas | 109.245 | 1.444 | 7587487 | 1.31 | 100 | 109.2 | 80 | 120 | |
| Ca | 43 | 2 | He | 111613.298 | 3.463 | 234511 | 1.81 | 100 | 111613.3 | 80 | 120 | ICSB Main CR1 Failed |
| Sb | 121 | 2 | He | 105.254 | 2.888 | 876690 | 1.22 | 100 | 105.3 | 80 | 120 | |
| Ti | 47 | 2 | He | 2195.098 | 3.729 | 458430 | 2.06 | 100 | 2195.1 | 80 | 120 | ICSB Main CR1 Failed |
| Cu | 63 | 1 | No Gas | 100.975 | 2.610 | 1390634 | 1.71 | 100 | 101.0 | 80 | 120 | |
| Se | 82 | 1 | No Gas | 109.735 | 3.773 | 25815 | 2.98 | 100 | 109.7 | 80 | 120 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 839297 | 0.58 | 925047 | 90.73 | 70 | 120 | |
| Ge | 72 | 2 | He | 748579 | 1.71 | 783220 | 95.58 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2612486 | 1.08 | 2767984 | 94.38 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3326952 | 0.61 | 3581092 | 92.90 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3450677 | 0.43 | 3720386 | 92.75 | 70 | 120 | |

# Calibration Blank Report

**Sample Table**

| | |
|---|---|
| Sample Name | CAL BLK |
| Data File Name | 165CALB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T18:26:19-05:00 |
| Sample Type | CalBlk |
| Level | 1 |
| Dilution | 1 |
| Comment | |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 48562 | 0.00 |
| Be | 9 | 1 | No Gas | 47 | 80.63 |
| V | 51 | 2 | He | 7189 | 0.03 |
| Cr | 52 | 2 | He | 8606 | 0.05 |
| Fe | 56 | 2 | He | 13917 | 0.04 |
| Se | 78 | 2 | He | 107 | 17.61 |
| As | 75 | 2 | He | 338 | 2.84 |
| Ca | 44 | 2 | He | 540 | 1.71 |
| Na | 23 | 2 | He | 86477 | 0.00 |
| Mg | 24 | 2 | He | 1970 | 0.34 |
| K | 39 | 2 | He | 95327 | 0.00 |
| Mn | 55 | 2 | He | 573 | 3.35 |
| Co | 59 | 2 | He | 140 | 0.00 |
| Ni | 60 | 2 | He | 253 | 7.36 |
| Cu | 63 | 2 | He | 667 | 0.69 |
| Zn | 66 | 2 | He | 860 | 0.89 |
| Al | 27 | 2 | He | 1003 | 0.77 |
| B | 11 | 1 | No Gas | 7922 | 0.05 |
| Al | 27 | 1 | No Gas | 35475 | 0.02 |
| Si | 28 | 1 | No Gas | 184259 | 0.00 |
| Ag | 107 | 1 | No Gas | 303 | 10.27 |
| Sr | 88 | 1 | No Gas | 2044 | 0.67 |
| Mo | 95 | 1 | No Gas | 127 | 12.97 |
| Sn | 118 | 1 | No Gas | 7793 | 1.17 |
| Sb | 121 | 1 | No Gas | 613 | 2.51 |
| Ba | 137 | 1 | No Gas | 633 | 3.40 |
| Tl | 205 | 1 | No Gas | 690 | 2.07 |
| Tl | 203 | 1 | No Gas | 307 | 11.47 |
| Pb | 208 | 1 | No Gas | 2323 | 0.25 |
| U | 238 | 1 | No Gas | 1480 | 0.42 |
| Ca | 43 | 2 | He | 47 | 70.14 |
| Sb | 121 | 2 | He | 270 | 1.37 |
| Ti | 47 | 2 | He | 20 | 661.44 |
| Cu | 63 | 1 | No Gas | 1357 | 0.47 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 789601 | 0.08 |

# Calibration Blank Report

| | | | | | |
|---|---|---|---|---|---|
| Ge | 72 | 2 | He | 909952 | 0.99 |
| Ge | 72 | 1 | No Gas | 3202767 | 1.12 |
| In | 115 | 1 | No Gas | 4425209 | 0.76 |
| Bi | 209 | 1 | No Gas | 4898592 | 0.63 |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 2/10/200 |
| Data File Name | 166CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T18:28:52-05:00 |
| Sample Type | CalStd |
| Level | 2 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 5810 | 0.06 |
| V | 51 | 2 | He | 21412 | 0.01 |
| Cr | 52 | 2 | He | 24969 | 0.01 |
| Fe | 56 | 2 | He | 1513402 | 0.00 |
| Se | 78 | 2 | He | 337 | 2.56 |
| As | 75 | 2 | He | 2805 | 0.05 |
| Ca | 44 | 2 | He | 9313 | 0.06 |
| Na | 23 | 2 | He | 310252 | 0.00 |
| Mg | 24 | 2 | He | 139572 | 0.00 |
| K | 39 | 2 | He | 260001 | 0.00 |
| Mn | 55 | 2 | He | 12683 | 0.01 |
| Co | 59 | 2 | He | 25370 | 0.01 |
| Ni | 60 | 2 | He | 6682 | 0.06 |
| Cu | 63 | 2 | He | 17531 | 0.02 |
| Zn | 66 | 2 | He | 4297 | 0.07 |
| Al | 27 | 2 | He | 1867 | 0.88 |
| B | 11 | 1 | No Gas | 25821 | 0.01 |
| Al | 27 | 1 | No Gas | 66346 | 0.00 |
| Si | 28 | 1 | No Gas | 259909 | 0.00 |
| Ag | 107 | 1 | No Gas | 53889 | 0.00 |
| Cd | 111 | 1 | No Gas | 10099 | 0.06 |
| Sr | 88 | 1 | No Gas | 100807 | 0.00 |
| Mo | 95 | 1 | No Gas | 18697 | 0.02 |
| Sn | 118 | 1 | No Gas | 37580 | 0.00 |
| Sb | 121 | 1 | No Gas | 46425 | 0.00 |
| Ba | 137 | 1 | No Gas | 18346 | 0.02 |
| Tl | 205 | 1 | No Gas | 130025 | 0.00 |
| Tl | 203 | 1 | No Gas | 55087 | 0.00 |
| Pb | 208 | 1 | No Gas | 182556 | 0.00 |
| U | 238 | 1 | No Gas | 189251 | 0.00 |
| Ca | 43 | 2 | He | 563 | 1.01 |
| Sb | 121 | 2 | He | 19415 | 0.01 |
| Cu | 63 | 1 | No Gas | 35058 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 775225 | 0.69 | 789601 | 98.18 | 70 | 120 | |
| Ge | 72 | 2 | He | 893988 | 0.82 | 909952 | 98.25 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 3158044 | 0.77 | 3202767 | 98.60 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 4373189 | 0.16 | 4425209 | 98.82 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4865545 | 0.59 | 4898592 | 99.33 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 5/25/500 |
| Data File Name | 167CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T18:31:25-05:00 |
| Sample Type | CalStd |
| Level | 3 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 14579 | 0.01 |
| V | 51 | 2 | He | 42232 | 0.00 |
| Cr | 52 | 2 | He | 49204 | 0.00 |
| Fe | 56 | 2 | He | 3808641 | 0.00 |
| Se | 78 | 2 | He | 651 | 1.63 |
| As | 75 | 2 | He | 6533 | 0.04 |
| Ca | 44 | 2 | He | 22345 | 0.01 |
| Na | 23 | 2 | He | 651518 | 0.00 |
| Mg | 24 | 2 | He | 348426 | 0.00 |
| K | 39 | 2 | He | 508755 | 0.00 |
| Mn | 55 | 2 | He | 31393 | 0.01 |
| Co | 59 | 2 | He | 62676 | 0.00 |
| Ni | 60 | 2 | He | 16907 | 0.01 |
| Cu | 63 | 2 | He | 44994 | 0.01 |
| Zn | 66 | 2 | He | 8873 | 0.08 |
| Al | 27 | 2 | He | 2964 | 0.15 |
| B | 11 | 1 | No Gas | 52174 | 0.00 |
| Al | 27 | 1 | No Gas | 110225 | 0.00 |
| Si | 28 | 1 | No Gas | 381348 | 0.00 |
| Ag | 107 | 1 | No Gas | 131579 | 0.00 |
| Cd | 111 | 1 | No Gas | 25709 | 0.01 |
| Sr | 88 | 1 | No Gas | 246714 | 0.00 |
| Mo | 95 | 1 | No Gas | 47206 | 0.00 |
| Sn | 118 | 1 | No Gas | 87665 | 0.00 |
| Sb | 121 | 1 | No Gas | 115325 | 0.00 |
| Ba | 137 | 1 | No Gas | 45298 | 0.00 |
| Tl | 205 | 1 | No Gas | 321408 | 0.00 |
| Tl | 203 | 1 | No Gas | 134948 | 0.00 |
| Pb | 208 | 1 | No Gas | 452681 | 0.00 |
| U | 238 | 1 | No Gas | 471675 | 0.00 |
| Ca | 43 | 2 | He | 1263 | 0.91 |
| Sb | 121 | 2 | He | 48830 | 0.01 |
| Cu | 63 | 1 | No Gas | 84773 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 773453 | 0.17 | 789601 | 97.95 | 70 | 120 | |
| Ge | 72 | 2 | He | 891524 | 0.41 | 909952 | 97.97 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 3147283 | 0.37 | 3202767 | 98.27 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 4339244 | 0.66 | 4425209 | 98.06 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4821597 | 0.67 | 4898592 | 98.43 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 10/50/100 |
| Data File Name | 168CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T18:33:57-05:00 |
| Sample Type | CalStd |
| Level | 4 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 28275 | 0.01 |
| V | 51 | 2 | He | 77209 | 0.00 |
| Cr | 52 | 2 | He | 88965 | 0.00 |
| Fe | 56 | 2 | He | 7580832 | 0.00 |
| Se | 78 | 2 | He | 1310 | 0.26 |
| As | 75 | 2 | He | 12908 | 0.03 |
| Ca | 44 | 2 | He | 43963 | 0.00 |
| Na | 23 | 2 | He | 1196258 | 0.00 |
| Mg | 24 | 2 | He | 685007 | 0.00 |
| K | 39 | 2 | He | 917141 | 0.00 |
| Mn | 55 | 2 | He | 62190 | 0.00 |
| Co | 59 | 2 | He | 124377 | 0.00 |
| Ni | 60 | 2 | He | 32452 | 0.01 |
| Cu | 63 | 2 | He | 87035 | 0.00 |
| Zn | 66 | 2 | He | 17288 | 0.02 |
| Al | 27 | 2 | He | 5198 | 0.06 |
| B | 11 | 1 | No Gas | 95520 | 0.00 |
| Al | 27 | 1 | No Gas | 185894 | 0.00 |
| Si | 28 | 1 | No Gas | 574378 | 0.00 |
| Ag | 107 | 1 | No Gas | 260214 | 0.00 |
| Cd | 111 | 1 | No Gas | 51092 | 0.00 |
| Sr | 88 | 1 | No Gas | 483170 | 0.00 |
| Mo | 95 | 1 | No Gas | 93392 | 0.00 |
| Sn | 118 | 1 | No Gas | 173686 | 0.00 |
| Sb | 121 | 1 | No Gas | 230102 | 0.00 |
| Ba | 137 | 1 | No Gas | 88836 | 0.01 |
| Tl | 205 | 1 | No Gas | 634396 | 0.00 |
| Tl | 203 | 1 | No Gas | 266009 | 0.00 |
| Pb | 208 | 1 | No Gas | 900364 | 0.00 |
| U | 238 | 1 | No Gas | 938877 | 0.00 |
| Ca | 43 | 2 | He | 2637 | 0.37 |
| Sb | 121 | 2 | He | 96339 | 0.00 |
| Cu | 63 | 1 | No Gas | 165388 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 758349 | 0.71 | 789601 | 96.04 | 70 | 120 | |
| Ge | 72 | 2 | He | 886961 | 0.89 | 909952 | 97.47 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 3105104 | 0.67 | 3202767 | 96.95 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 4303190 | 0.21 | 4425209 | 97.24 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4845240 | 0.33 | 4898592 | 98.91 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 100/500/10K |
| Data File Name | 169CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T18:36:29-05:00 |
| Sample Type | CalStd |
| Level | 5 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 260427 | 0.00 |
| V | 51 | 2 | He | 635979 | 0.00 |
| Cr | 52 | 2 | He | 725015 | 0.00 |
| Fe | 56 | 2 | He | 68980232 | 0.00 |
| Se | 78 | 2 | He | 10451 | 0.04 |
| As | 75 | 2 | He | 115384 | 0.00 |
| Ca | 44 | 2 | He | 392702 | 0.00 |
| Na | 23 | 2 | He | 10219544 | 0.00 |
| Mg | 24 | 2 | He | 6267946 | 0.00 |
| K | 39 | 2 | He | 7619025 | 0.00 |
| Mn | 55 | 2 | He | 555571 | 0.00 |
| Co | 59 | 2 | He | 1142339 | 0.00 |
| Ni | 60 | 2 | He | 290973 | 0.00 |
| Cu | 63 | 2 | He | 784299 | 0.00 |
| Zn | 66 | 2 | He | 147869 | 0.00 |
| Al | 27 | 2 | He | 39416 | 0.01 |
| B | 11 | 1 | No Gas | 814385 | 0.00 |
| Al | 27 | 1 | No Gas | 1423885 | 0.00 |
| Si | 28 | 1 | No Gas | 3648710 | 0.00 |
| Ag | 107 | 1 | No Gas | 2369308 | 0.00 |
| Cd | 111 | 1 | No Gas | 478228 | 0.00 |
| Sr | 88 | 1 | No Gas | 4446349 | 0.00 |
| Mo | 95 | 1 | No Gas | 866437 | 0.00 |
| Sn | 118 | 1 | No Gas | 1606338 | 0.00 |
| Sb | 121 | 1 | No Gas | 2170758 | 0.00 |
| Ba | 137 | 1 | No Gas | 826308 | 0.00 |
| Tl | 205 | 1 | No Gas | 5834332 | 0.00 |
| Tl | 203 | 1 | No Gas | 2475478 | 0.00 |
| Pb | 208 | 1 | No Gas | 8420354 | 0.00 |
| U | 238 | 1 | No Gas | 9336514 | 0.00 |
| Ca | 43 | 2 | He | 22872 | 0.01 |
| Sb | 121 | 2 | He | 911669 | 0.00 |
| Cu | 63 | 1 | No Gas | 1465716 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 702122 | 0.93 | 789601 | 88.92 | 70 | 120 | |
| Ge | 72 | 2 | He | 844685 | 1.27 | 909952 | 92.83 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2923349 | 0.75 | 3202767 | 91.28 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 4085282 | 0.70 | 4425209 | 92.32 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4593413 | 0.59 | 4898592 | 93.77 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 200/1000/20K |
| Data File Name | 170CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T18:39:02-05:00 |
| Sample Type | CalStd |
| Level | 6 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 500113 | 0.00 |
| V | 51 | 2 | He | 1275843 | 0.00 |
| Cr | 52 | 2 | He | 1468567 | 0.00 |
| Fe | 56 | 2 | He | 137644121 | 0.00 |
| Se | 78 | 2 | He | 20652 | 0.01 |
| As | 75 | 2 | He | 230052 | 0.00 |
| Ca | 44 | 2 | He | 784428 | 0.00 |
| Na | 23 | 2 | He | 20275590 | 0.00 |
| Mg | 24 | 2 | He | 12448559 | 0.00 |
| K | 39 | 2 | He | 15147611 | 0.00 |
| Mn | 55 | 2 | He | 1120604 | 0.00 |
| Co | 59 | 2 | He | 2277940 | 0.00 |
| Ni | 60 | 2 | He | 576706 | 0.00 |
| Cu | 63 | 2 | He | 1589430 | 0.00 |
| Zn | 66 | 2 | He | 294330 | 0.00 |
| Al | 27 | 2 | He | 79061 | 0.00 |
| B | 11 | 1 | No Gas | 1601393 | 0.00 |
| Al | 27 | 1 | No Gas | 2738134 | 0.00 |
| Si | 28 | 1 | No Gas | 6921647 | 0.00 |
| Ag | 107 | 1 | No Gas | 4643519 | 0.00 |
| Cd | 111 | 1 | No Gas | 929935 | 0.00 |
| Sr | 88 | 1 | No Gas | 8796152 | 0.00 |
| Mo | 95 | 1 | No Gas | 1753772 | 0.00 |
| Sn | 118 | 1 | No Gas | 3170028 | 0.00 |
| Sb | 121 | 1 | No Gas | 4326347 | 0.00 |
| Ba | 137 | 1 | No Gas | 1660977 | 0.00 |
| Tl | 205 | 1 | No Gas | 11450364 | 0.00 |
| Tl | 203 | 1 | No Gas | 4844500 | 0.00 |
| Pb | 208 | 1 | No Gas | 16660976 | 0.00 |
| U | 238 | 1 | No Gas | 18618821 | 0.00 |
| Ca | 43 | 2 | He | 46197 | 0.01 |
| Sb | 121 | 2 | He | 1885755 | 0.00 |
| Cu | 63 | 1 | No Gas | 2843078 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 682313 | 0.37 | 789601 | 86.41 | 70 | 120 | |
| Ge | 72 | 2 | He | 827580 | 0.36 | 909952 | 90.95 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2838106 | 0.73 | 3202767 | 88.61 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3968529 | 0.34 | 4425209 | 89.68 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4438007 | 0.53 | 4898592 | 90.60 | 70 | 120 | |

# Initial Calibration Verification (ICV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICCV |
| Data File Name | 172_ICV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T18:49:37-05:00 |
| Sample Type | ICV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Exp Value | %Rec | %Low | %High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 100.458 | 1.832 | 967519 | 2.02 | 100 | 100.5 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 102.861 | 0.898 | 268157 | 1.18 | 100 | 102.9 | 90 | 110 | |
| V | 51 | 2 | He | 101.037 | 2.052 | 662716 | 2.14 | 100 | 101.0 | 90 | 110 | |
| Cr | 52 | 2 | He | 100.276 | 1.806 | 755843 | 1.92 | 100 | 100.3 | 90 | 110 | |
| Fe | 56 | 2 | He | 9976.103 | 2.190 | 70389884 | 2.36 | 10000 | 99.8 | 90 | 110 | |
| Se | 78 | 2 | He | 101.730 | 0.788 | 10830 | 0.81 | 100 | 101.7 | 90 | 110 | |
| As | 75 | 2 | He | 101.924 | 1.281 | 120323 | 1.36 | 100 | 101.9 | 90 | 110 | |
| Ca | 44 | 2 | He | 10095.782 | 1.616 | 406045 | 1.78 | 10000 | 101.0 | 90 | 110 | |
| Na | 23 | 2 | He | 9973.239 | 1.843 | 10409333 | 1.95 | 10000 | 99.7 | 90 | 110 | |
| Mg | 24 | 2 | He | 10053.926 | 1.781 | 6421804 | 1.87 | 10000 | 100.5 | 90 | 110 | |
| K | 39 | 2 | He | 9993.594 | 1.987 | 7800399 | 2.02 | 10000 | 99.9 | 90 | 110 | |
| Mn | 55 | 2 | He | 101.295 | 2.370 | 580810 | 2.53 | 100 | 101.3 | 90 | 110 | |
| Co | 59 | 2 | He | 102.238 | 2.301 | 1193951 | 2.44 | 100 | 102.2 | 90 | 110 | |
| Ni | 60 | 2 | He | 102.335 | 1.698 | 303022 | 1.85 | 100 | 102.3 | 90 | 110 | |
| Cu | 63 | 2 | He | 99.844 | 0.938 | 811205 | 1.03 | 100 | 99.8 | 90 | 110 | |
| Zn | 66 | 2 | He | 101.037 | 1.392 | 152829 | 1.56 | 100 | 101.0 | 90 | 110 | |
| Al | 27 | 2 | He | 102.565 | 2.542 | 41879 | 2.50 | 100 | 102.6 | 90 | 110 | |
| B | 11 | 1 | No Gas | 495.776 | 1.271 | 816268 | 1.46 | 500 | 99.2 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 101.918 | 1.110 | 1460415 | 1.77 | 100 | 101.9 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 505.080 | 1.699 | 3704579 | 2.30 | 500 | 101.0 | 90 | 110 | |
| Ag | 107 | 1 | No Gas | 102.862 | 2.226 | 2451331 | 1.88 | 100 | 102.9 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 102.564 | 2.787 | 490196 | 2.41 | 100 | 102.6 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 102.142 | 2.585 | 4602744 | 2.21 | 100 | 102.1 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 99.992 | 2.328 | 894202 | 1.95 | 100 | 100.0 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 101.539 | 2.339 | 1652082 | 1.95 | 100 | 101.5 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 100.711 | 1.538 | 2244448 | 2.16 | 100 | 100.7 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 99.353 | 3.098 | 842778 | 2.72 | 100 | 99.4 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 104.028 | 1.869 | 6145335 | 2.97 | 100 | 104.0 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 103.988 | 2.097 | 2600468 | 3.19 | 100 | 104.0 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 101.744 | 1.393 | 8730678 | 2.25 | 100 | 101.7 | 90 | 110 | |
| U | 238 | 1 | No Gas | 101.997 | 1.245 | 9764391 | 2.46 | 100 | 102.0 | 90 | 110 | |
| Ca | 43 | 2 | He | 10106.195 | 1.196 | 23891 | 1.28 | 10000 | 101.1 | 90 | 110 | |
| Sb | 121 | 2 | He | 97.584 | 1.453 | 936604 | 1.53 | 100 | 97.6 | 90 | 110 | |
| Ti | 47 | 2 | He | 103.085 | 2.303 | 24061 | 2.49 | 100 | 103.1 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 103.251 | 1.271 | 1520905 | 1.95 | 100 | 103.3 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 100.530 | 2.027 | 27799 | 2.66 | 100 | 100.5 | 90 | 110 | |
| Zr | 90 | 1 | No Gas | 87.014 | 2.356 | 2435254 | 1.98 | 100 | 87.0 | 90 | 110 | ICV Main CR1 Failed |
| Zr | 90 | 2 | He | 84.315 | 1.995 | 964740 | 1.94 | 100 | 84.3 | 90 | 1100 | ICV Main CR1 Failed |

**QC ISTD Table**

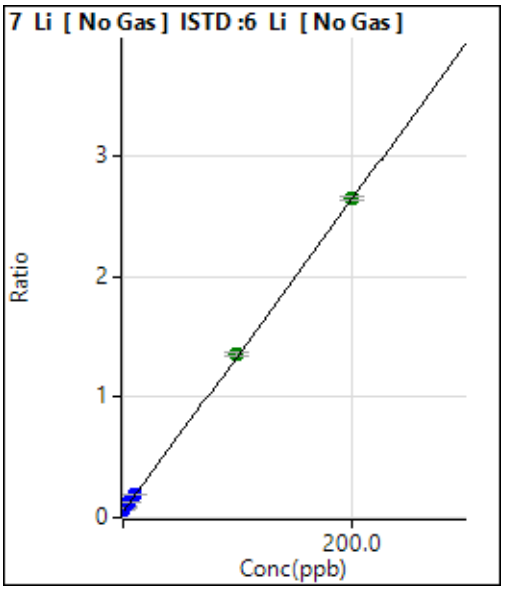
| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 709544 | 0.39 | 789601 | 89.86 | 70 | 120 | |
| Ge | 72 | 2 | He | 851377 | 0.20 | 909952 | 93.56 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2938798 | 0.68 | 3202767 | 91.76 | 70 | 120 | |
| In | 115 | 1 | No Gas | 4080042 | 0.38 | 4425209 | 92.20 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4592425 | 1.46 | 4898592 | 93.75 | 70 | 120 | |

Calibration for 172_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062824A.b\
Analysis File: 062824A.batch.bin
DA Date-Time: 6/28/2024 10:08:19 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 165CALB.d | CAL BLK | 6/28/2024 6:26:19 PM |
| 2 | 166CALS.d | 2/10/200 | 6/28/2024 6:28:52 PM |
| 3 | 167CALS.d | 5/25/500 | 6/28/2024 6:31:25 PM |
| 4 | 168CALS.d | 10/50/100 | 6/28/2024 6:33:57 PM |
| 5 | 169CALS.d | 100/500/10K | 6/28/2024 6:36:29 PM |
| 6 | 170CALS.d | 200/1000/20K | 6/28/2024 6:39:02 PM |

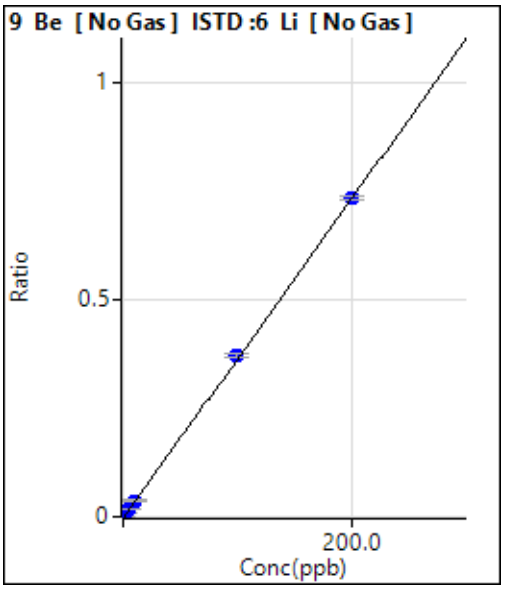
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 48562.36 | 0.0615 | P | 1.1 | |
| 2 | ☐ | 2.000 | 2.046 | 68240.54 | 0.0880 | P | 0.9 | 2.3 |
| 3 | ☐ | 5.000 | 5.201 | 99702.13 | 0.1289 | P | 1.0 | 4.0 |
| 4 | ☐ | 10.000 | 10.292 | 147790.64 | 0.1949 | P | 1.4 | 2.9 |
| 5 | ☐ | 100.000 | 100.357 | 956336.86 | 1.3622 | A | 2.3 | 0.4 |
| 6 | ☐ | 200.000 | 199.802 | 1808944.30 | 2.6511 | A | 1.1 | -0.1 |

y = 0.0130 * x + 0.0615
R = 1.0000
DL = 0.1599 ppb
BEC = 4.745 ppb

Weight: <None>
Min Conc: <None>

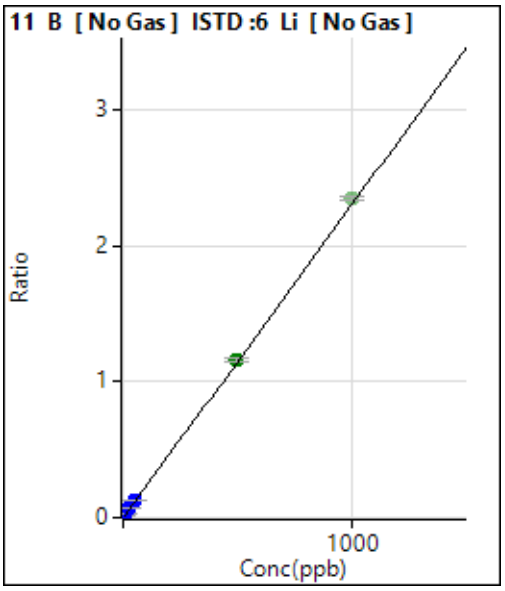



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 46.67 | 0.0001 | P | 37.7 | |
| 2 | ☐ | 2.000 | 2.024 | 5809.56 | 0.0075 | P | 4.2 | 1.2 |
| 3 | ☐ | 5.000 | 5.115 | 14579.18 | 0.0188 | P | 1.9 | 2.3 |
| 4 | ☐ | 10.000 | 10.135 | 28274.79 | 0.0373 | P | 3.3 | 1.3 |
| 5 | ☐ | 100.000 | 100.968 | 260427.17 | 0.3710 | P | 3.1 | 1.0 |
| 6 | ☐ | 200.000 | 199.506 | 500113.42 | 0.7330 | P | 0.8 | -0.2 |

y = 0.0037 * x + 5.9113E-005
R = 1.0000
DL = 0.0182 ppb
BEC = 0.01609 ppb

Weight: <None>
Min Conc: <None>

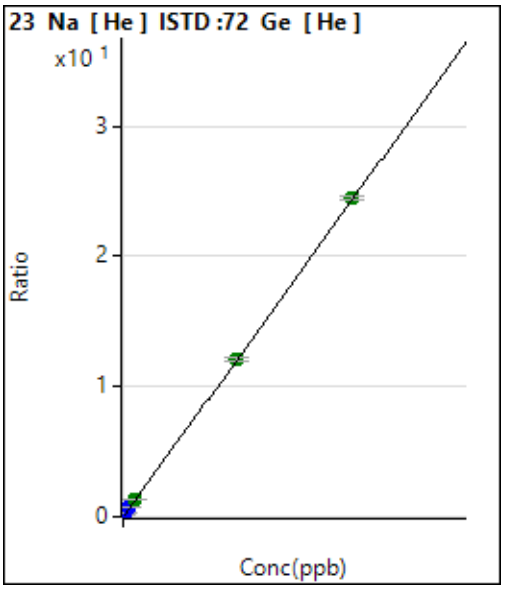
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7922.26 | 0.0100 | P | 3.9 | |
| 2 | ☐ | 10.000 | 10.121 | 25820.80 | 0.0333 | P | 4.0 | 1.2 |
| 3 | ☐ | 25.000 | 24.965 | 52173.58 | 0.0675 | P | 1.9 | -0.1 |
| 4 | ☐ | 50.000 | 50.401 | 95519.95 | 0.1260 | P | 1.0 | 0.8 |
| 5 | ☐ | 500.000 | 499.959 | 814385.20 | 1.1600 | A | 2.2 | 0.0 |
| 6 | ☑ | 1000.000 | | 1601392.89 | 2.3470 | A | 0.6 | |

y = 0.0023 * x + 0.0100
R = 1.0000
DL = 0.5068 ppb
BEC = 4.362 ppb

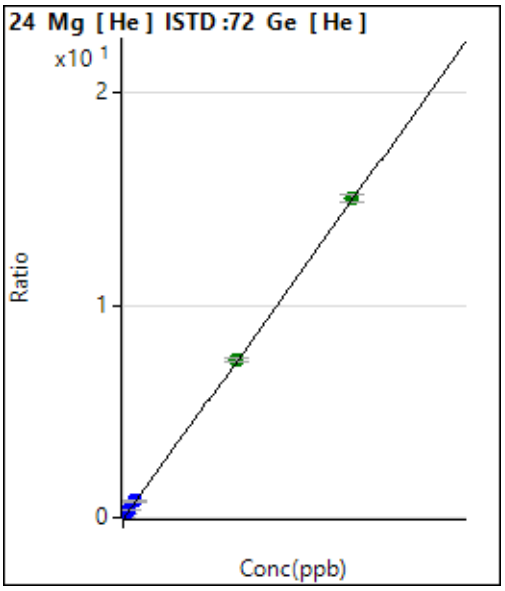
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 86476.89 | 0.0950 | P | 0.9 | |
| 2 | ☐ | 200.000 | 207.191 | 310252.24 | 0.3471 | P | 1.1 | 3.6 |
| 3 | ☐ | 500.000 | 522.648 | 651517.72 | 0.7308 | P | 0.8 | 4.5 |
| 4 | ☐ | 1000.000 | 1030.735 | 1196257.53 | 1.3488 | A | 1.3 | 3.1 |
| 5 | ☐ | 10000.00 | 9869.063 | 10219544.43 | 12.0996 | A | 1.9 | -1.3 |
| 6 | ☐ | 20000.00 | 20063.29 | 20275589.70 | 24.4996 | A | 1.8 | 0.3 |

y = 0.0012 * x + 0.0950
R = 1.0000
DL = 2.078 ppb
BEC = 78.13 ppb

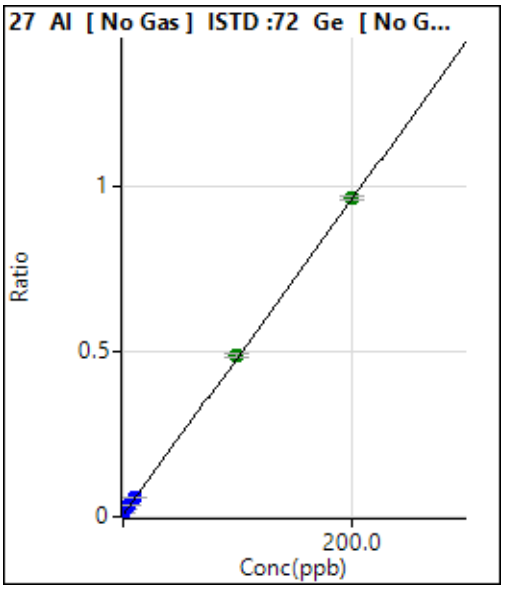
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1970.17 | 0.0022 | P | 7.1 | |
| 2 | ☐ | 200.000 | 205.278 | 139572.12 | 0.1561 | P | 1.7 | 2.6 |
| 3 | ☐ | 500.000 | 518.172 | 348425.87 | 0.3908 | P | 2.3 | 3.6 |
| 4 | ☐ | 1000.000 | 1026.864 | 685006.73 | 0.7723 | P | 1.2 | 2.7 |
| 5 | ☐ | 10000.00 | 9891.425 | 6267945.53 | 7.4209 | A | 2.2 | -1.1 |
| 6 | ☐ | 20000.00 | 20052.43 | 12448558.56 | 15.0418 | A | 1.9 | 0.3 |

y = 7.5002E-004 * x + 0.0022
R = 1.0000
DL = 0.6173 ppb
BEC = 2.888 ppb

Weight: <None>
Min Conc: <None>

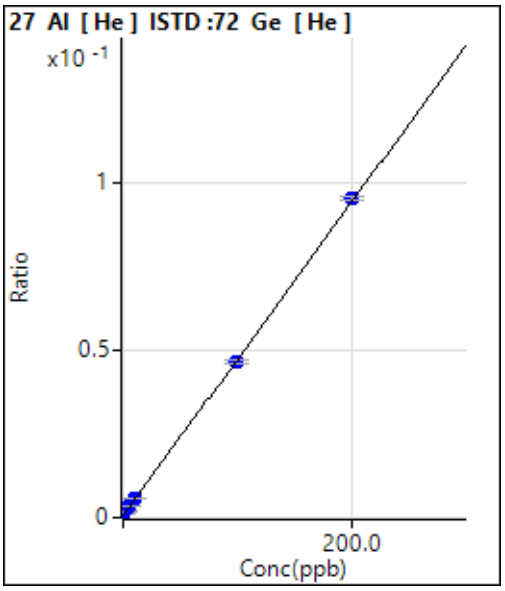



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 35474.87 | 0.0111 | P | 6.7 | |
| 2 | ☐ | 2.000 | 2.083 | 66346.00 | 0.0210 | P | 2.1 | 4.2 |
| 3 | ☐ | 5.000 | 5.023 | 110225.07 | 0.0350 | P | 0.7 | 0.5 |
| 4 | ☐ | 10.000 | 10.235 | 185893.60 | 0.0599 | P | 1.3 | 2.4 |
| 5 | ☐ | 100.000 | 99.862 | 1423884.88 | 0.4871 | A | 2.3 | -0.1 |
| 6 | ☐ | 200.000 | 200.056 | 2738133.71 | 0.9647 | A | 0.7 | 0.0 |

y = 0.0048 * x + 0.0111
R = 1.0000
DL = 0.4677 ppb
BEC = 2.324 ppb

Weight: <None>
Min Conc: <None>

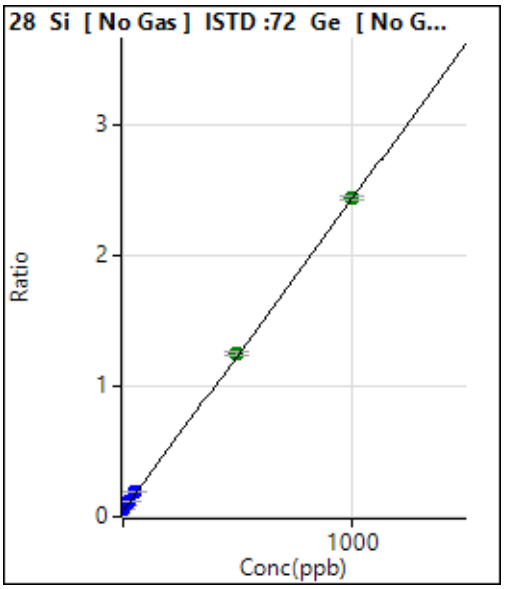
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1003.39 | 0.0011 | P | 8.1 | |
| 2 | ☐ | 2.000 | 2.099 | 1866.83 | 0.0021 | P | 15.7 | 4.9 |
| 3 | ☐ | 5.000 | 4.738 | 2963.69 | 0.0033 | P | 4.3 | -5.2 |
| 4 | ☐ | 10.000 | 10.147 | 5197.72 | 0.0059 | P | 3.1 | 1.5 |
| 5 | ☐ | 100.000 | 97.180 | 39415.58 | 0.0467 | P | 3.2 | -2.8 |
| 6 | ☐ | 200.000 | 201.408 | 79061.32 | 0.0955 | P | 0.9 | 0.7 |

y = 4.6885E-004 * x + 0.0011
R = 0.9999
DL = 0.5721 ppb
BEC = 2.352 ppb

Weight: <None>
Min Conc: <None>

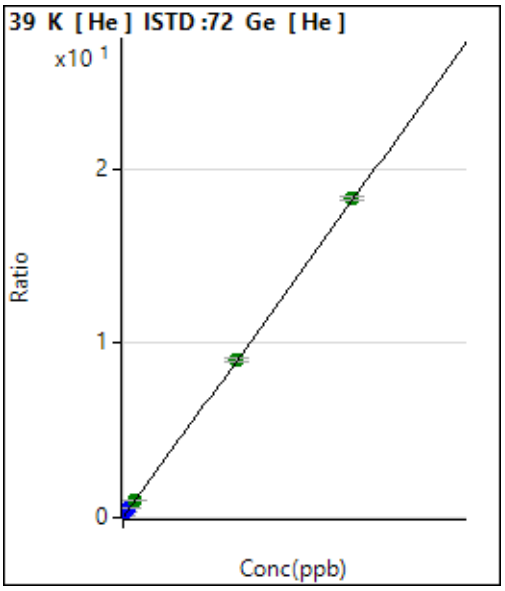



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 184259.15 | 0.0575 | P | 1.7 | |
| 2 | ☐ | 10.000 | 10.400 | 259909.01 | 0.0823 | P | 1.6 | 4.0 |
| 3 | ☐ | 25.000 | 26.716 | 381347.95 | 0.1212 | P | 0.3 | 6.9 |
| 4 | ☐ | 50.000 | 53.510 | 574378.35 | 0.1850 | P | 0.7 | 7.0 |
| 5 | ☐ | 500.000 | 499.927 | 3648709.84 | 1.2482 | A | 1.9 | 0.0 |
| 6 | ☐ | 1000.000 | 999.814 | 6921646.57 | 2.4388 | A | 0.6 | 0.0 |

y = 0.0024 * x + 0.0575
R = 1.0000
DL = 1.249 ppb
BEC = 24.16 ppb

Weight: <None>
Min Conc: <None>

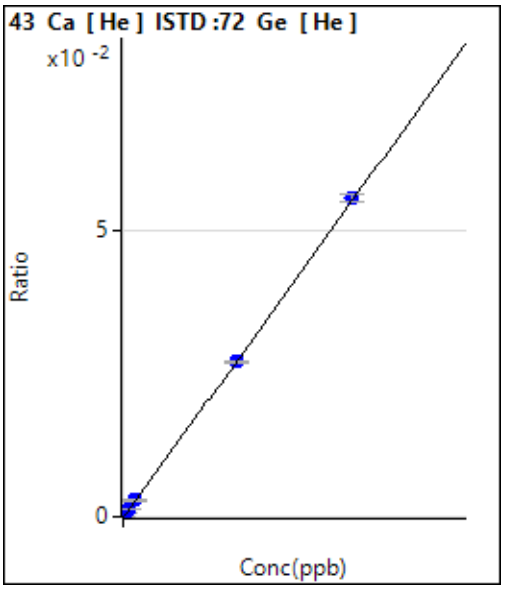
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 95326.84 | 0.1048 | P | 0.9 | |
| 2 | ☐ | 200.000 | 205.310 | 260000.73 | 0.2908 | P | 0.6 | 2.7 |
| 3 | ☐ | 500.000 | 514.051 | 508755.27 | 0.5707 | P | 1.0 | 2.8 |
| 4 | ☐ | 1000.000 | 1025.324 | 917141.05 | 1.0340 | A | 0.9 | 2.5 |
| 5 | ☐ | 10000.00 | 9837.255 | 7619024.88 | 9.0204 | A | 2.3 | -1.6 |
| 6 | ☐ | 20000.00 | 20079.70 | 15147611.02 | 18.3032 | A | 1.1 | 0.4 |

y = 9.0631E-004 * x + 0.1048
R = 1.0000
DL = 3.057 ppb
BEC = 115.6 ppb

Weight: <None>
Min Conc: <None>

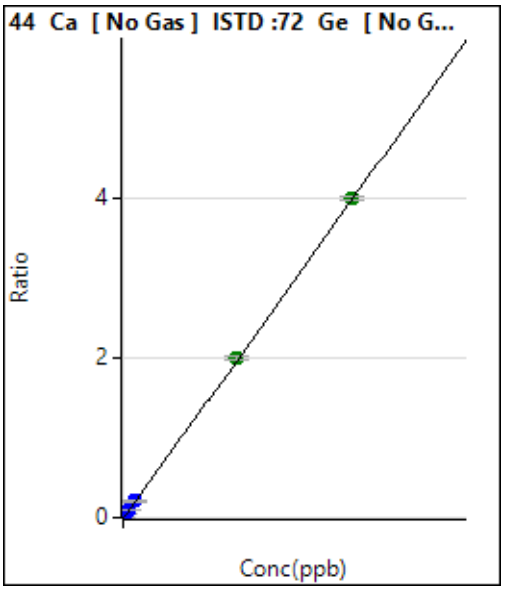



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 46.67 | 0.0001 | P | 32.0 | |
| 2 | ☐ | 200.000 | 208.883 | 563.35 | 0.0006 | P | 5.6 | 4.4 |
| 3 | ☐ | 500.000 | 493.005 | 1263.41 | 0.0014 | P | 11.9 | -1.4 |
| 4 | ☐ | 1000.000 | 1054.272 | 2636.96 | 0.0030 | P | 9.8 | 5.4 |
| 5 | ☐ | 10000.00 | 9749.863 | 22872.45 | 0.0271 | P | 2.0 | -2.5 |
| 6 | ☐ | 20000.00 | 20122.44 | 46196.91 | 0.0558 | P | 2.3 | 0.6 |

y = 2.7716E-006 * x + 5.1206E-005
R = 0.9999
DL = 17.75 ppb
BEC = 18.48 ppb

Weight: <None>
Min Conc: <None>

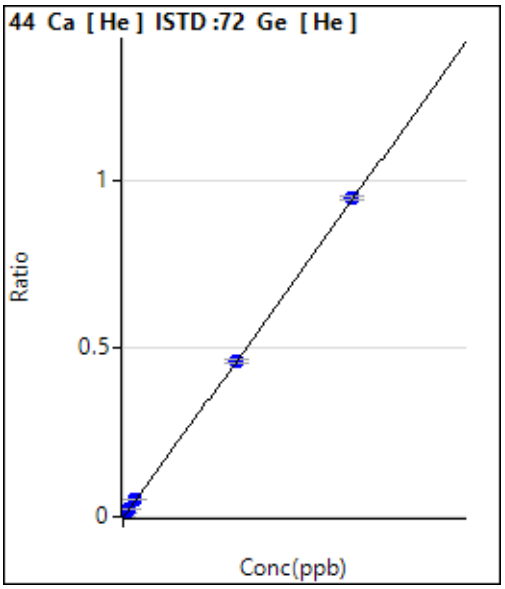
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 14494.46 | 0.0045 | P | 4.3 | |
| 2 | ☐ | 200.000 | 200.337 | 140270.25 | 0.0444 | P | 2.4 | 0.2 |
| 3 | ☐ | 500.000 | 507.777 | 332481.09 | 0.1056 | P | 0.6 | 1.6 |
| 4 | ☐ | 1000.000 | 1006.655 | 636451.71 | 0.2050 | P | 2.2 | 0.7 |
| 5 | ☐ | 10000.00 | 9964.434 | 5813409.08 | 1.9888 | A | 2.3 | -0.4 |
| 6 | ☐ | 20000.00 | 20017.25 | 11326121.50 | 3.9906 | A | 0.8 | 0.1 |

y = 1.9913E-004 * x + 0.0045
R = 1.0000
DL = 2.901 ppb
BEC = 22.73 ppb

Weight: <None>
Min Conc: <None>

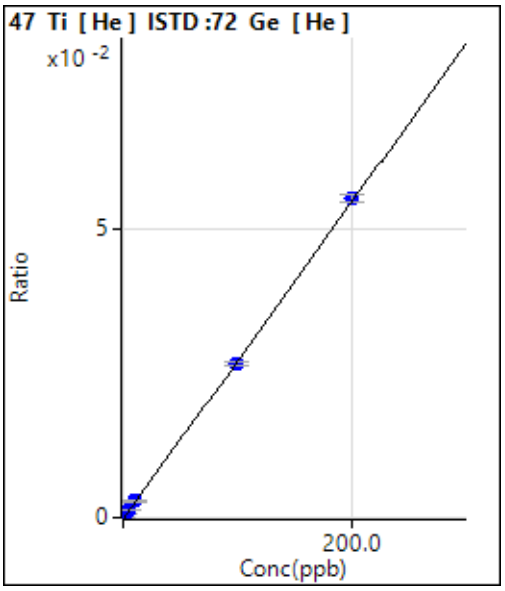



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 540.02 | 0.0006 | P | 8.4 | |
| 2 | ☐ | 200.000 | 208.198 | 9313.30 | 0.0104 | P | 4.7 | 4.1 |
| 3 | ☐ | 500.000 | 518.641 | 22344.87 | 0.0251 | P | 1.0 | 3.7 |
| 4 | ☐ | 1000.000 | 1037.980 | 43962.90 | 0.0496 | P | 1.1 | 3.8 |
| 5 | ☐ | 10000.00 | 9841.519 | 392702.03 | 0.4649 | P | 2.5 | -1.6 |
| 6 | ☐ | 20000.00 | 20076.79 | 784428.27 | 0.9478 | P | 1.6 | 0.4 |

y = 4.7181E-005 * x + 5.9318E-004
R = 1.0000
DL = 3.165 ppb
BEC = 12.57 ppb

Weight: <None>
Min Conc: <None>

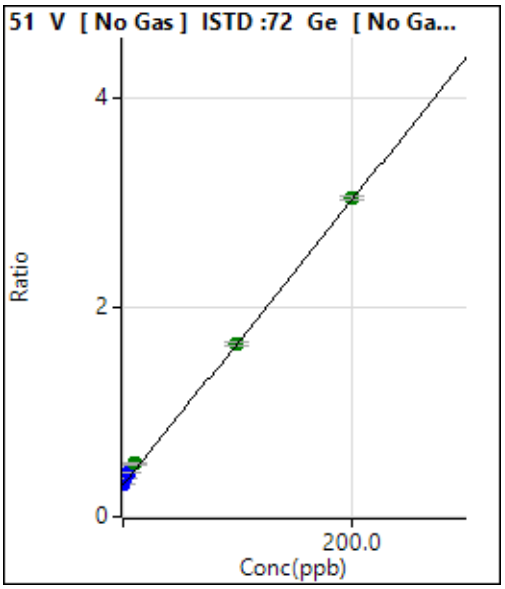
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 20.00 | 0.0000 | P | 131.8 | |
| 2 | ☐ | 2.000 | 2.028 | 516.69 | 0.0006 | P | 22.3 | 1.4 |
| 3 | ☐ | 5.000 | 5.244 | 1300.08 | 0.0015 | P | 3.2 | 4.9 |
| 4 | ☐ | 10.000 | 10.510 | 2573.61 | 0.0029 | P | 5.5 | 5.1 |
| 5 | ☐ | 100.000 | 97.093 | 22481.76 | 0.0266 | P | 1.9 | -2.9 |
| 6 | ☐ | 200.000 | 201.422 | 45681.99 | 0.0552 | P | 2.2 | 0.7 |

y = 2.7394E-004 * x + 2.1792E-005
R = 0.9998
DL = 0.3144 ppb
BEC = 0.07955 ppb

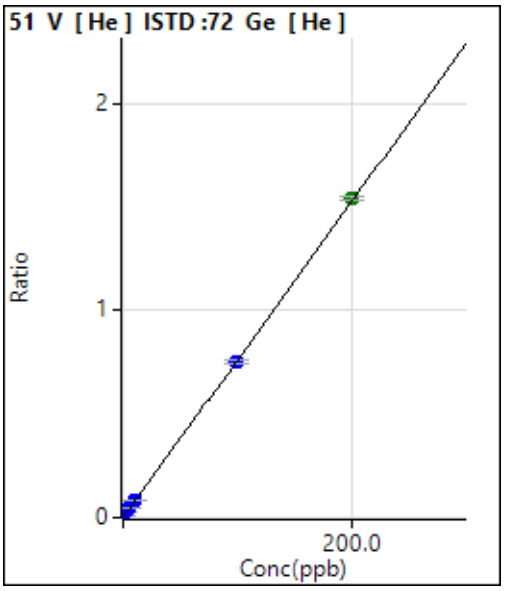
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1018079.73 | 0.3179 | P | 1.4 | |
| 2 | ☐ | 2.000 | 3.778 | 1166138.53 | 0.3693 | P | 2.1 | 88.9 |
| 3 | ☐ | 5.000 | 7.773 | 1333491.52 | 0.4237 | P | 0.4 | 55.5 |
| 4 | ☐ | 10.000 | 13.855 | 1572670.43 | 0.5065 | A | 0.7 | 38.5 |
| 5 | ☐ | 100.000 | 98.242 | 4838831.74 | 1.6554 | A | 2.6 | -1.8 |
| 6 | ☐ | 200.000 | 200.599 | 8653737.82 | 3.0489 | A | 1.3 | 0.3 |

y = 0.0136 * x + 0.3179
R = 0.9998
DL = 0.9588 ppb
BEC = 23.35 ppb

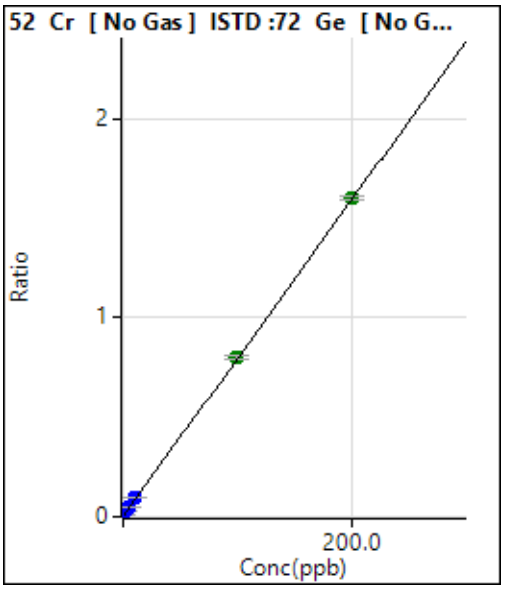
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7188.57 | 0.0079 | P | 3.0 | |
| 2 | ☐ | 2.000 | 2.105 | 21412.09 | 0.0240 | P | 1.9 | 5.2 |
| 3 | ☐ | 5.000 | 5.176 | 42231.83 | 0.0474 | P | 1.2 | 3.5 |
| 4 | ☐ | 10.000 | 10.380 | 77209.09 | 0.0871 | P | 1.9 | 3.8 |
| 5 | ☐ | 100.000 | 97.703 | 635979.16 | 0.7530 | P | 1.6 | -2.3 |
| 6 | ☐ | 200.000 | 201.124 | 1275843.00 | 1.5416 | A | 1.3 | 0.6 |

y = 0.0076 * x + 0.0079
R = 0.9999
DL = 0.09368 ppb
BEC = 1.036 ppb

Weight: <None>
Min Conc: <None>

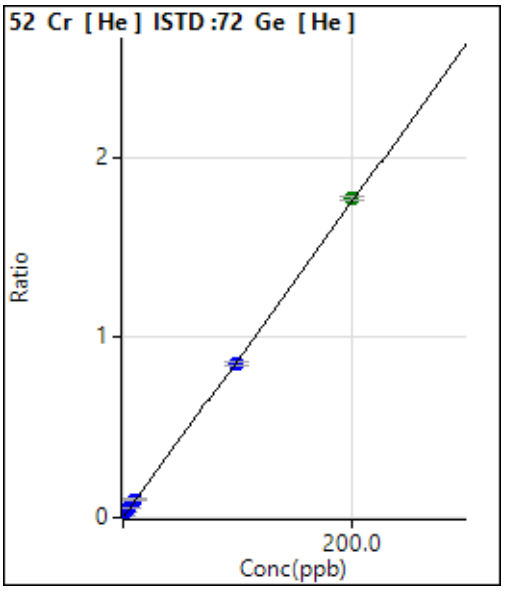



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 33200.11 | 0.0104 | P | 2.7 | |
| 2 | ☐ | 2.000 | 2.106 | 85613.60 | 0.0271 | P | 1.9 | 5.3 |
| 3 | ☐ | 5.000 | 5.218 | 163205.14 | 0.0519 | P | 0.8 | 4.4 |
| 4 | ☐ | 10.000 | 10.411 | 289233.68 | 0.0931 | P | 0.8 | 4.1 |
| 5 | ☐ | 100.000 | 99.596 | 2345265.69 | 0.8023 | A | 2.3 | -0.4 |
| 6 | ☐ | 200.000 | 200.175 | 4547211.81 | 1.6021 | A | 1.1 | 0.1 |

y = 0.0080 * x + 0.0104
R = 1.0000
DL = 0.107 ppb
BEC = 1.303 ppb

Weight: <None>
Min Conc: <None>

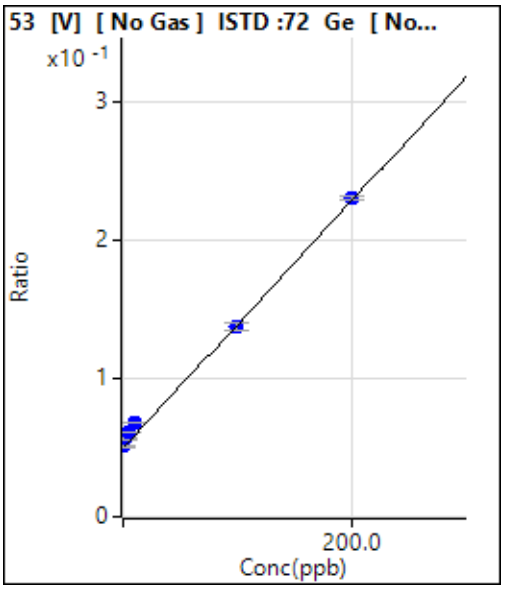
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 8606.19 | 0.0095 | P | 5.5 | |
| 2 | ☐ | 2.000 | 2.108 | 24969.48 | 0.0279 | P | 0.8 | 5.4 |
| 3 | ☐ | 5.000 | 5.221 | 49204.36 | 0.0552 | P | 1.2 | 4.4 |
| 4 | ☐ | 10.000 | 10.373 | 88964.69 | 0.1003 | P | 2.6 | 3.7 |
| 5 | ☐ | 100.000 | 96.923 | 725015.46 | 0.8584 | P | 2.3 | -3.1 |
| 6 | ☐ | 200.000 | 201.513 | 1468567.27 | 1.7745 | A | 1.2 | 0.8 |

y = 0.0088 * x + 0.0095
R = 0.9998
DL = 0.179 ppb
BEC = 1.08 ppb

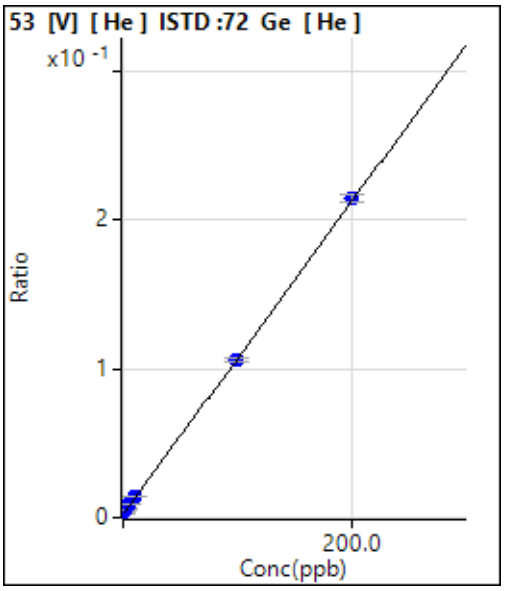
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 163672.05 | 0.0511 | P | 1.4 | |
| 2 | ☐ | 2.000 | 6.431 | 179535.20 | 0.0569 | P | 2.4 | 221.6 |
| 3 | ☐ | 5.000 | 11.260 | 192547.54 | 0.0612 | P | 0.9 | 125.2 |
| 4 | ☐ | 10.000 | 18.837 | 211016.24 | 0.0680 | P | 1.3 | 88.4 |
| 5 | ☐ | 100.000 | 96.639 | 402172.55 | 0.1376 | P | 3.5 | -3.4 |
| 6 | ☐ | 200.000 | 201.038 | 655717.18 | 0.2310 | P | 1.3 | 0.5 |

y = 8.9498E-004 * x + 0.0511
R = 0.9988
DL = 2.474 ppb
BEC = 57.1 ppb

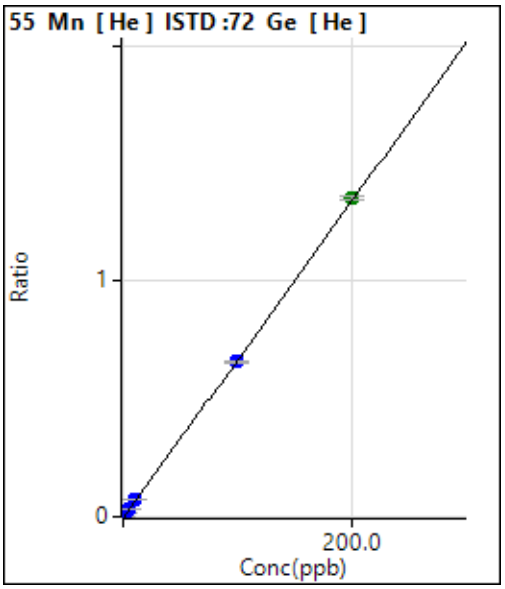
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2957.05 | 0.0032 | P | 3.6 | |
| 2 | ☐ | 2.000 | 2.381 | 5137.70 | 0.0057 | P | 3.5 | 19.1 |
| 3 | ☐ | 5.000 | 5.644 | 8175.86 | 0.0092 | P | 2.1 | 12.9 |
| 4 | ☐ | 10.000 | 10.433 | 12589.26 | 0.0142 | P | 2.2 | 4.3 |
| 5 | ☐ | 100.000 | 97.703 | 89316.86 | 0.1057 | P | 2.0 | -2.3 |
| 6 | ☐ | 200.000 | 201.107 | 177284.23 | 0.2142 | P | 2.1 | 0.6 |

y = 0.0010 * x + 0.0032
R = 0.9999
DL = 0.3304 ppb
BEC = 3.098 ppb

Weight: <None>
Min Conc: <None>

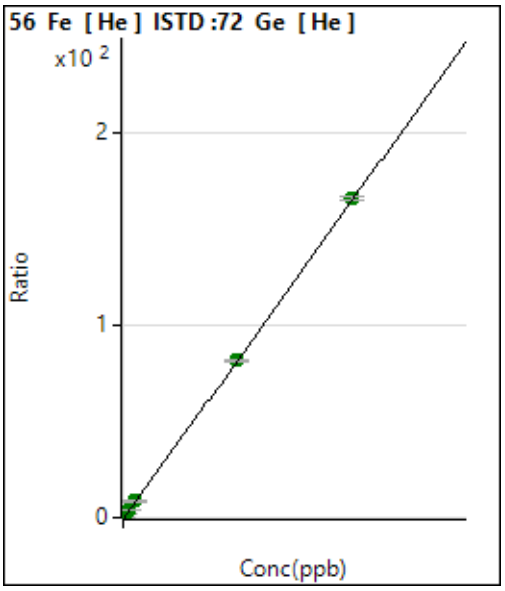



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 573.36 | 0.0006 | P | 19.3 | |
| 2 | ☐ | 2.000 | 2.015 | 12682.70 | 0.0142 | P | 2.3 | 0.8 |
| 3 | ☐ | 5.000 | 5.140 | 31392.63 | 0.0352 | P | 3.3 | 2.8 |
| 4 | ☐ | 10.000 | 10.327 | 62190.07 | 0.0701 | P | 0.7 | 3.3 |
| 5 | ☐ | 100.000 | 97.662 | 555570.75 | 0.6577 | P | 1.2 | -2.3 |
| 6 | ☐ | 200.000 | 201.149 | 1120604.20 | 1.3540 | A | 1.2 | 0.6 |

y = 0.0067 * x + 6.3008E-004
R = 0.9999
DL = 0.05416 ppb
BEC = 0.09364 ppb

Weight: <None>
Min Conc: <None>

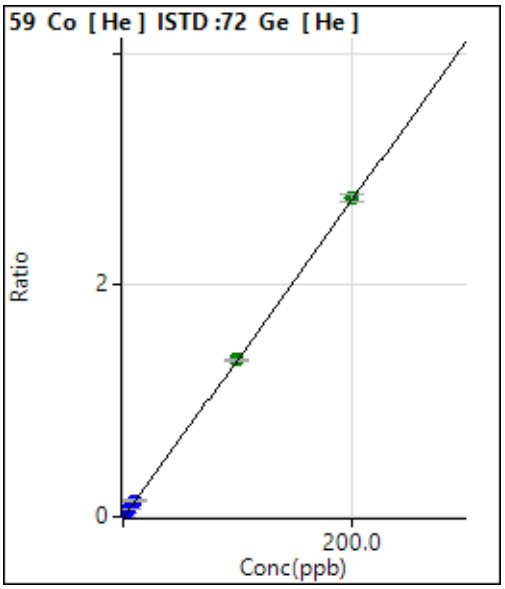
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 13917.24 | 0.0153 | P | 6.6 | |
| 2 | ☐ | 200.000 | 202.456 | 1513401.96 | 1.6928 | A | 1.4 | 1.2 |
| 3 | ☐ | 500.000 | 513.734 | 3808640.57 | 4.2720 | A | 2.1 | 2.7 |
| 4 | ☐ | 1000.000 | 1029.717 | 7580831.97 | 8.5474 | A | 1.7 | 3.0 |
| 5 | ☐ | 10000.00 | 9854.683 | 68980232.30 | 81.6696 | A | 1.8 | -1.5 |
| 6 | ☐ | 20000.00 | 20070.80 | 137644121.2 | 166.318 | A | 1.1 | 0.4 |

y = 0.0083 * x + 0.0153
R = 1.0000
DL = 0.3674 ppb
BEC = 1.846 ppb

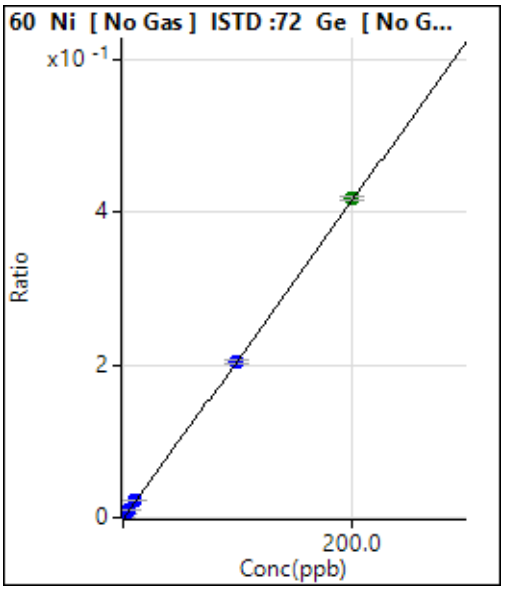
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 140.00 | 0.0002 | P | 1.0 | |
| 2 | ☐ | 2.000 | 2.058 | 25370.40 | 0.0284 | P | 2.7 | 2.9 |
| 3 | ☐ | 5.000 | 5.115 | 62675.71 | 0.0703 | P | 2.6 | 2.3 |
| 4 | ☐ | 10.000 | 10.214 | 124376.65 | 0.1402 | P | 1.2 | 2.1 |
| 5 | ☐ | 100.000 | 98.604 | 1142339.23 | 1.3525 | A | 1.9 | -1.4 |
| 6 | ☐ | 200.000 | 200.684 | 2277939.65 | 2.7525 | A | 1.8 | 0.3 |

y = 0.0137 * x + 1.5386E-004
R = 1.0000
DL = 0.000332 ppb
BEC = 0.01122 ppb

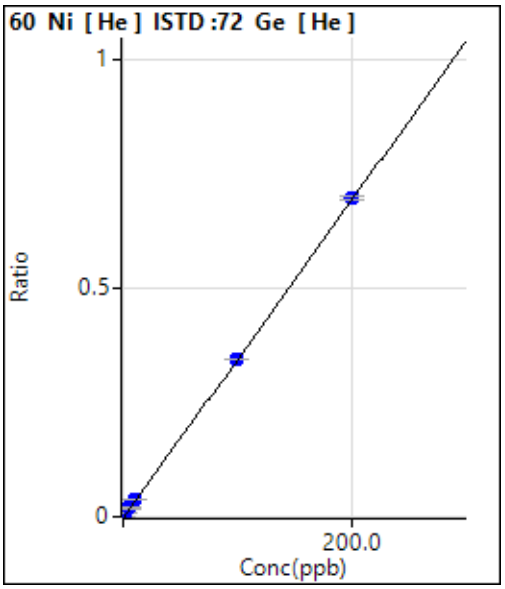
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 716.70 | 0.0002 | P | 18.9 | |
| 2 | ☐ | 2.000 | 2.082 | 14371.02 | 0.0046 | P | 2.0 | 4.1 |
| 3 | ☐ | 5.000 | 5.200 | 34720.64 | 0.0110 | P | 1.4 | 4.0 |
| 4 | ☐ | 10.000 | 10.342 | 67438.31 | 0.0217 | P | 1.3 | 3.4 |
| 5 | ☐ | 100.000 | 98.240 | 597502.93 | 0.2044 | P | 2.5 | -1.8 |
| 6 | ☐ | 200.000 | 200.857 | 1185512.66 | 0.4177 | A | 1.5 | 0.4 |

y = 0.0021 * x + 2.2409E-004
R = 0.9999
DL = 0.06123 ppb
BEC = 0.1078 ppb

Weight: <None>
Min Conc: <None>

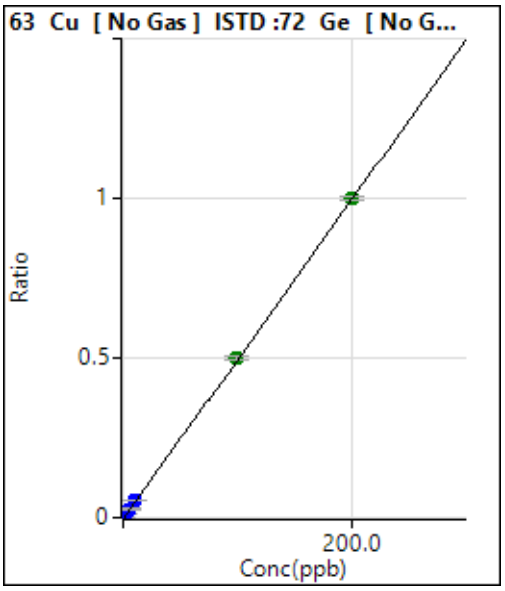



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 253.34 | 0.0003 | P | 18.5 | |
| 2 | ☐ | 2.000 | 2.070 | 6681.75 | 0.0075 | P | 3.3 | 3.5 |
| 3 | ☐ | 5.000 | 5.377 | 16907.25 | 0.0190 | P | 2.5 | 7.5 |
| 4 | ☐ | 10.000 | 10.447 | 32451.88 | 0.0366 | P | 1.2 | 4.5 |
| 5 | ☐ | 100.000 | 99.049 | 290973.23 | 0.3445 | P | 0.9 | -1.0 |
| 6 | ☐ | 200.000 | 200.443 | 576705.58 | 0.6969 | P | 1.5 | 0.2 |

y = 0.0035 * x + 2.7833E-004
R = 1.0000
DL = 0.04443 ppb
BEC = 0.08009 ppb

Weight: <None>
Min Conc: <None>

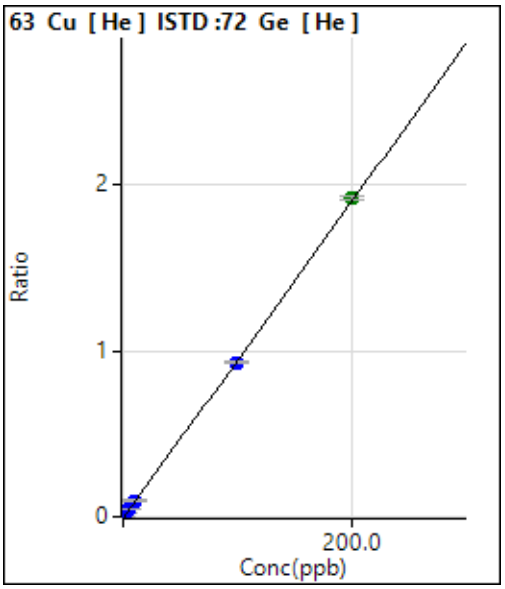
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1356.76 | 0.0004 | P | 5.2 | |
| 2 | ☐ | 2.000 | 2.132 | 35058.40 | 0.0111 | P | 1.4 | 6.6 |
| 3 | ☐ | 5.000 | 5.294 | 84773.26 | 0.0269 | P | 1.8 | 5.9 |
| 4 | ☐ | 10.000 | 10.551 | 165387.54 | 0.0533 | P | 1.5 | 5.5 |
| 5 | ☐ | 100.000 | 100.041 | 1465716.18 | 0.5014 | A | 2.4 | 0.0 |
| 6 | ☐ | 200.000 | 199.943 | 2843077.67 | 1.0017 | A | 0.7 | 0.0 |

y = 0.0050 * x + 4.2345E-004
R = 1.0000
DL = 0.01324 ppb
BEC = 0.08456 ppb

Weight: <None>
Min Conc: <None>

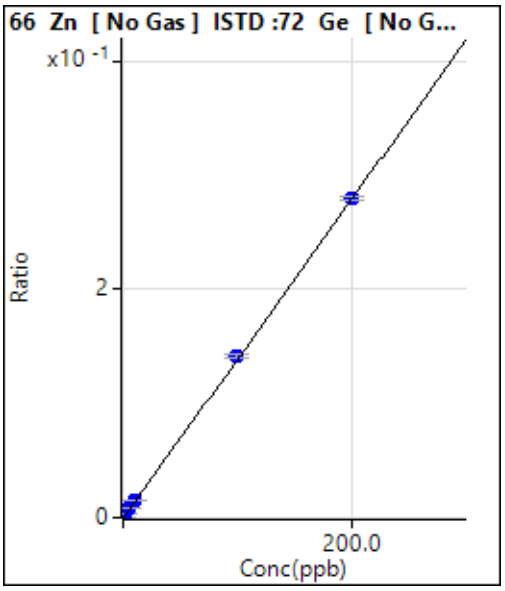



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 666.70 | 0.0007 | P | 3.7 | |
| 2 | ☐ | 2.000 | 1.979 | 17531.45 | 0.0196 | P | 2.9 | -1.0 |
| 3 | ☐ | 5.000 | 5.215 | 44993.69 | 0.0505 | P | 2.5 | 4.3 |
| 4 | ☐ | 10.000 | 10.215 | 87034.76 | 0.0981 | P | 1.4 | 2.1 |
| 5 | ☐ | 100.000 | 97.300 | 784298.66 | 0.9285 | P | 1.8 | -2.7 |
| 6 | ☐ | 200.000 | 201.334 | 1589430.23 | 1.9206 | A | 1.6 | 0.7 |

y = 0.0095 * x + 7.3251E-004
R = 0.9999
DL = 0.008422 ppb
BEC = 0.07682 ppb

Weight: <None>
Min Conc: <None>

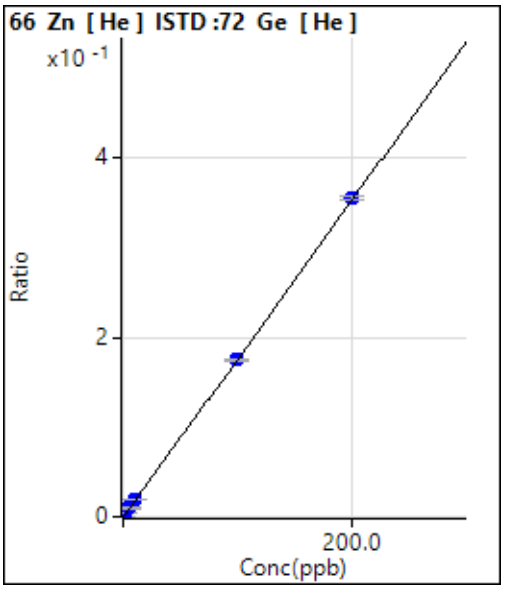
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2570.30 | 0.0008 | P | 8.7 | |
| 2 | ☐ | 2.000 | 2.044 | 11548.38 | 0.0037 | P | 3.8 | 2.2 |
| 3 | ☐ | 5.000 | 5.100 | 24939.64 | 0.0079 | P | 2.7 | 2.0 |
| 4 | ☐ | 10.000 | 10.247 | 46930.36 | 0.0151 | P | 1.7 | 2.5 |
| 5 | ☐ | 100.000 | 100.603 | 413049.12 | 0.1413 | P | 2.2 | 0.6 |
| 6 | ☐ | 200.000 | 199.683 | 793766.68 | 0.2797 | P | 0.7 | -0.2 |

y = 0.0014 * x + 8.0210E-004
R = 1.0000
DL = 0.1494 ppb
BEC = 0.5743 ppb

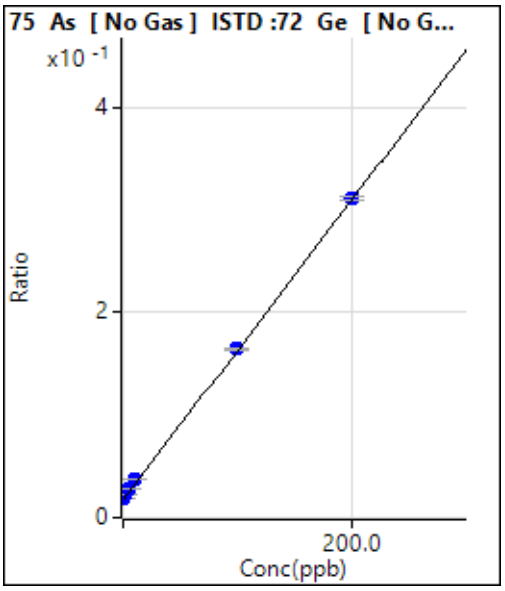
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 860.04 | 0.0009 | P | 6.9 | |
| 2 | ☐ | 2.000 | 2.186 | 4297.42 | 0.0048 | P | 3.8 | 9.3 |
| 3 | ☐ | 5.000 | 5.096 | 8873.06 | 0.0100 | P | 7.0 | 1.9 |
| 4 | ☐ | 10.000 | 10.494 | 17287.87 | 0.0195 | P | 3.0 | 4.9 |
| 5 | ☐ | 100.000 | 98.530 | 147869.38 | 0.1751 | P | 1.0 | -1.5 |
| 6 | ☐ | 200.000 | 200.706 | 294330.44 | 0.3556 | P | 0.7 | 0.4 |

y = 0.0018 * x + 9.4483E-004
R = 1.0000
DL = 0.1099 ppb
BEC = 0.5346 ppb

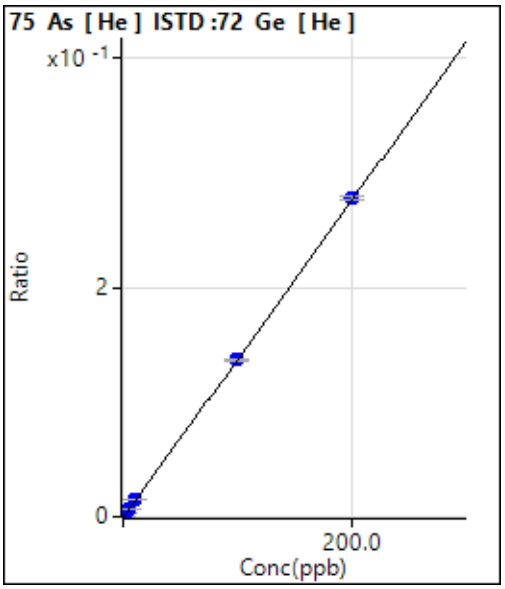
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 60708.39 | 0.0190 | P | 2.6 | |
| 2 | ☐ | 2.000 | 2.598 | 71828.87 | 0.0227 | P | 0.6 | 29.9 |
| 3 | ☐ | 5.000 | 6.410 | 89100.17 | 0.0283 | P | 2.8 | 28.2 |
| 4 | ☐ | 10.000 | 12.372 | 114911.74 | 0.0370 | P | 1.6 | 23.7 |
| 5 | ☐ | 100.000 | 99.405 | 479468.57 | 0.1640 | P | 1.3 | -0.6 |
| 6 | ☐ | 200.000 | 200.138 | 882747.18 | 0.3110 | P | 0.6 | 0.1 |

y = 0.0015 * x + 0.0190
R = 0.9999
DL = 1.024 ppb
BEC = 12.99 ppb

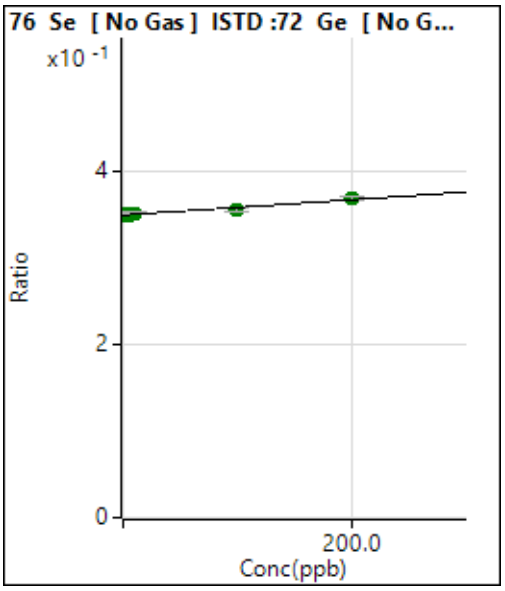
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 337.79 | 0.0004 | P | 8.6 | |
| 2 | ☐ | 2.000 | 2.000 | 2804.75 | 0.0031 | P | 1.0 | 0.0 |
| 3 | ☐ | 5.000 | 5.030 | 6532.70 | 0.0073 | P | 2.3 | 0.6 |
| 4 | ☐ | 10.000 | 10.255 | 12908.38 | 0.0146 | P | 3.4 | 2.6 |
| 5 | ☐ | 100.000 | 98.509 | 115384.20 | 0.1366 | P | 1.1 | -1.5 |
| 6 | ☐ | 200.000 | 200.732 | 230052.21 | 0.2780 | P | 1.8 | 0.4 |

y = 0.0014 * x + 3.7101E-004
R = 1.0000
DL = 0.06928 ppb
BEC = 0.2683 ppb

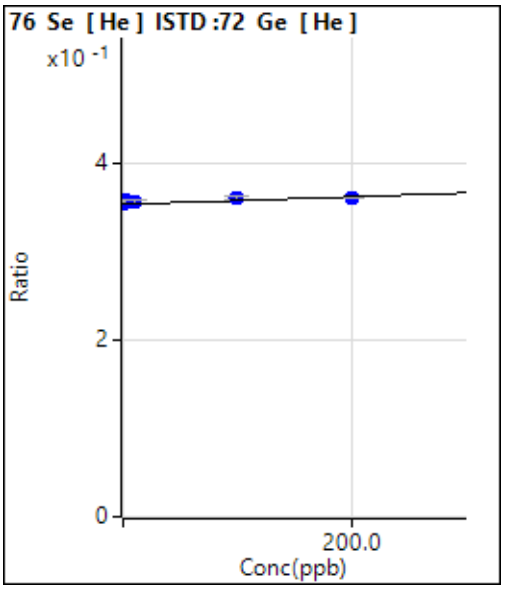
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1118509.59 | 0.3493 | A | 1.4 | |
| 2 | ☐ | 2.000 | 12.133 | 1106346.75 | 0.3503 | A | 0.8 | 506.6 |
| 3 | ☐ | 5.000 | 0.824 | 1099450.53 | 0.3493 | A | 0.7 | -83.5 |
| 4 | ☐ | 10.000 | 24.917 | 1091361.00 | 0.3515 | A | 0.3 | 149.2 |
| 5 | ☐ | 100.000 | 64.453 | 1037787.59 | 0.3550 | A | 0.8 | -35.5 |
| 6 | ☐ | 200.000 | 217.030 | 1046044.54 | 0.3686 | A | 1.1 | 8.5 |

y = 8.9069E-005 * x + 0.3493
R = 0.9726
DL = 167.3 ppb
BEC = 3921 ppb

Weight: <None>
Min Conc: <None>

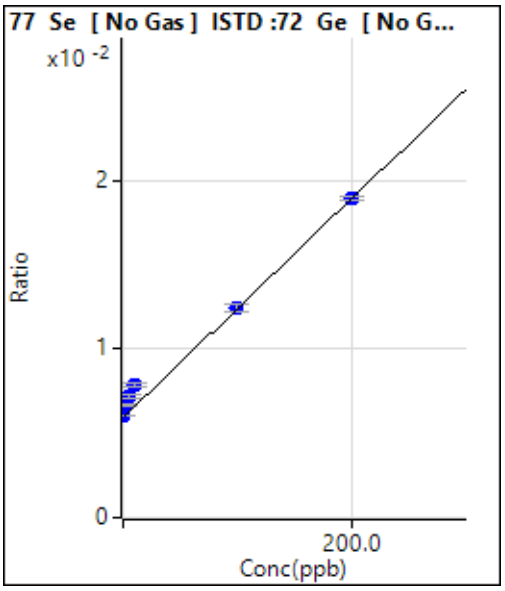



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 322418.73 | 0.3543 | P | 0.5 | |
| 2 | ☐ | 2.000 | 139.317 | 322219.10 | 0.3604 | P | 0.9 | 6865.9 |
| 3 | ☐ | 5.000 | 43.896 | 317604.81 | 0.3563 | P | 0.9 | 777.9 |
| 4 | ☐ | 10.000 | 68.077 | 316915.15 | 0.3573 | P | 0.9 | 580.8 |
| 5 | ☐ | 100.000 | 166.546 | 305469.74 | 0.3616 | P | 0.7 | 66.5 |
| 6 | ☐ | 200.000 | 161.478 | 299090.93 | 0.3614 | P | 0.2 | -19.3 |

y = 4.3755E-005 * x + 0.3543
R = 0.6919
DL = 127.2 ppb
BEC = 8098 ppb

Weight: <None>
Min Conc: <None>

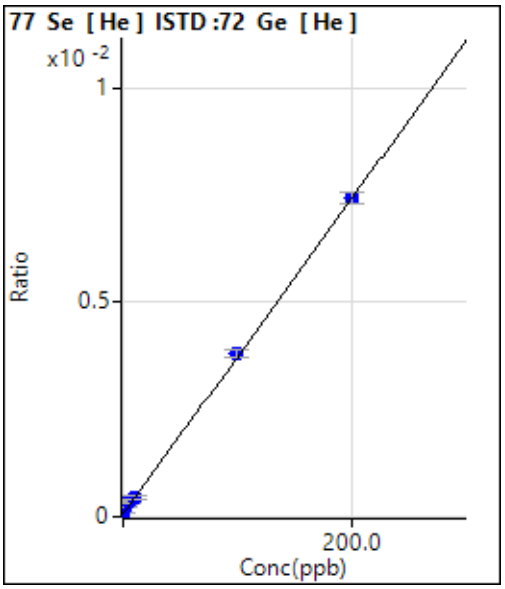
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 19317.30 | 0.0060 | P | 1.1 | |
| 2 | ☐ | 2.000 | 10.210 | 21140.06 | 0.0067 | P | 2.6 | 410.5 |
| 3 | ☐ | 5.000 | 17.731 | 22602.34 | 0.0072 | P | 1.9 | 254.6 |
| 4 | ☐ | 10.000 | 28.389 | 24442.31 | 0.0079 | P | 4.1 | 183.9 |
| 5 | ☐ | 100.000 | 99.362 | 36472.38 | 0.0125 | P | 3.9 | -0.6 |
| 6 | ☐ | 200.000 | 198.999 | 53752.78 | 0.0189 | P | 0.7 | -0.5 |

y = 6.4861E-005 * x + 0.0060
R = 0.9964
DL = 3.01 ppb
BEC = 92.99 ppb

Weight: <None>
Min Conc: <None>

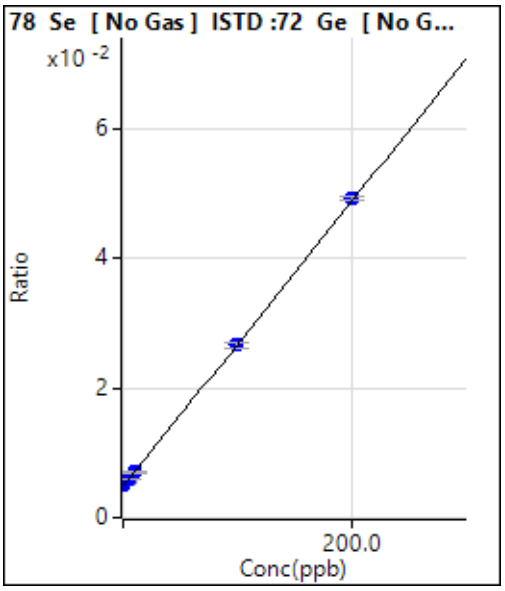



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 86.67 | 0.0001 | P | 24.7 | |
| 2 | ☐ | 2.000 | 3.797 | 210.00 | 0.0002 | P | 20.8 | 89.9 |
| 3 | ☐ | 5.000 | 6.663 | 303.34 | 0.0003 | P | 5.1 | 33.3 |
| 4 | ☐ | 10.000 | 9.176 | 383.35 | 0.0004 | P | 18.2 | -8.2 |
| 5 | ☐ | 100.000 | 100.943 | 3213.77 | 0.0038 | P | 4.5 | 0.9 |
| 6 | ☐ | 200.000 | 199.510 | 6148.15 | 0.0074 | P | 3.1 | -0.2 |

y = 3.6757E-005 * x + 9.5352E-005
R = 0.9999
DL = 1.92 ppb
BEC = 2.594 ppb

Weight: <None>
Min Conc: <None>

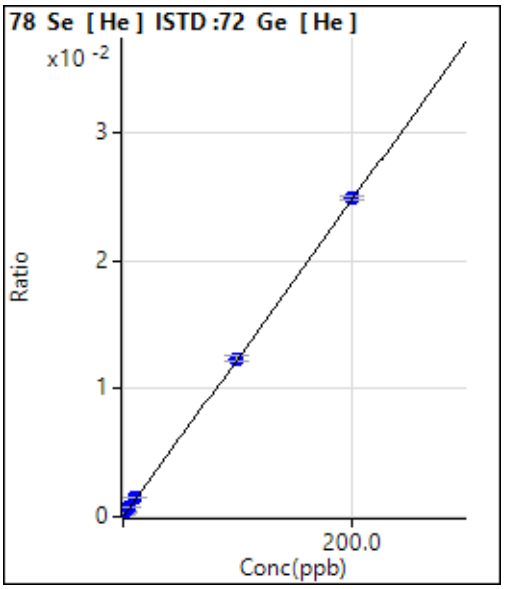
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 16203.21 | 0.0051 | P | 4.0 | |
| 2 | ☐ | 2.000 | 1.943 | 17327.91 | 0.0055 | P | 1.1 | -2.8 |
| 3 | ☐ | 5.000 | 4.075 | 18743.22 | 0.0060 | P | 2.7 | -18.5 |
| 4 | ☐ | 10.000 | 9.213 | 21994.62 | 0.0071 | P | 3.5 | -7.9 |
| 5 | ☐ | 100.000 | 97.880 | 77606.98 | 0.0266 | P | 3.2 | -2.1 |
| 6 | ☐ | 200.000 | 201.123 | 139684.29 | 0.0492 | P | 1.7 | 0.6 |

y = 2.1956E-004 * x + 0.0051
R = 0.9999
DL = 2.789 ppb
BEC = 23.05 ppb

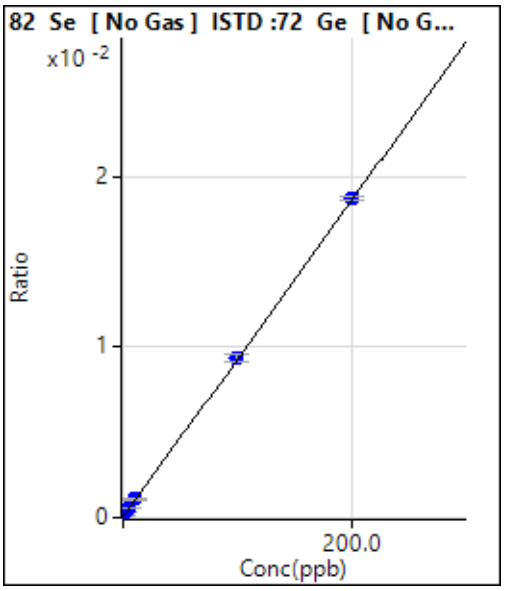
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 106.67 | 0.0001 | P | 19.6 | |
| 2 | ☐ | 2.000 | 2.100 | 337.34 | 0.0004 | P | 9.3 | 5.0 |
| 3 | ☐ | 5.000 | 4.946 | 650.68 | 0.0007 | P | 11.0 | -1.1 |
| 4 | ☐ | 10.000 | 10.974 | 1310.07 | 0.0015 | P | 2.5 | 9.7 |
| 5 | ☐ | 100.000 | 98.929 | 10450.69 | 0.0124 | P | 3.7 | -1.1 |
| 6 | ☐ | 200.000 | 200.487 | 20652.28 | 0.0250 | P | 1.6 | 0.2 |

y = 1.2388E-004 * x + 1.1736E-004
R = 1.0000
DL = 0.5562 ppb
BEC = 0.9473 ppb

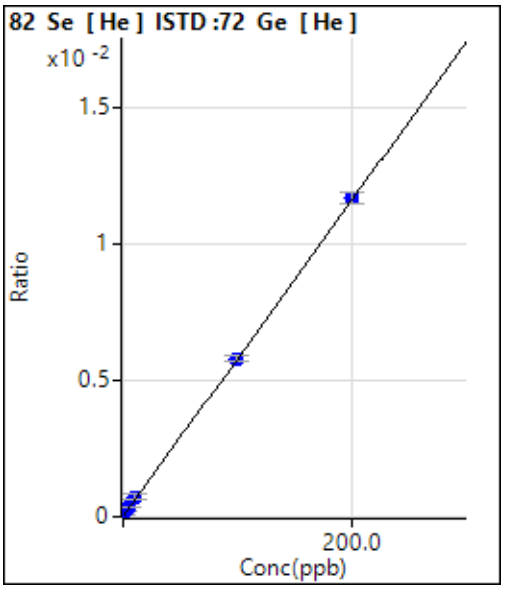
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 416.68 | 0.0001 | P | 23.2 | |
| 2 | ☐ | 2.000 | 2.166 | 1046.73 | 0.0003 | P | 9.8 | 8.3 |
| 3 | ☐ | 5.000 | 4.748 | 1796.82 | 0.0006 | P | 4.9 | -5.0 |
| 4 | ☐ | 10.000 | 10.192 | 3340.47 | 0.0011 | P | 4.7 | 1.9 |
| 5 | ☐ | 100.000 | 99.356 | 27327.86 | 0.0093 | P | 5.2 | -0.6 |
| 6 | ☐ | 200.000 | 200.317 | 53124.22 | 0.0187 | P | 0.7 | 0.2 |

y = 9.2789E-005 * x + 1.3032E-004
R = 1.0000
DL = 0.979 ppb
BEC = 1.405 ppb

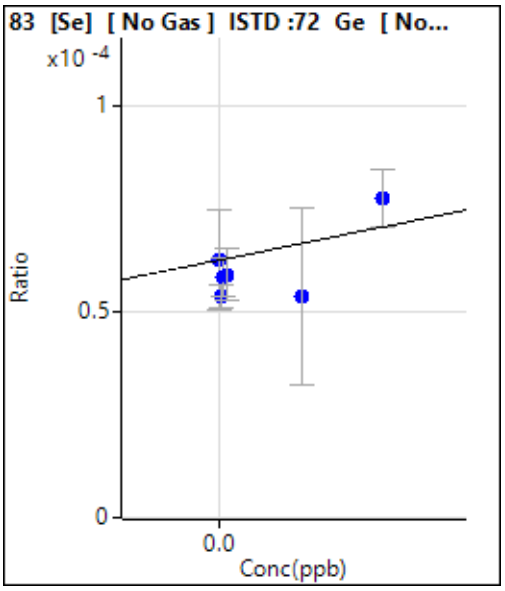
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 66.67 | 0.0001 | P | 34.3 | |
| 2 | ☐ | 2.000 | 2.080 | 173.34 | 0.0002 | P | 16.9 | 4.0 |
| 3 | ☐ | 5.000 | 4.544 | 300.01 | 0.0003 | P | 8.4 | -9.1 |
| 4 | ☐ | 10.000 | 11.047 | 633.36 | 0.0007 | P | 31.4 | 10.5 |
| 5 | ☐ | 100.000 | 98.808 | 4897.65 | 0.0058 | P | 4.2 | -1.2 |
| 6 | ☐ | 200.000 | 200.554 | 9676.94 | 0.0117 | P | 3.6 | 0.3 |

y = 5.7936E-005 * x + 7.3188E-005
R = 1.0000
DL = 1.3 ppb
BEC = 1.263 ppb

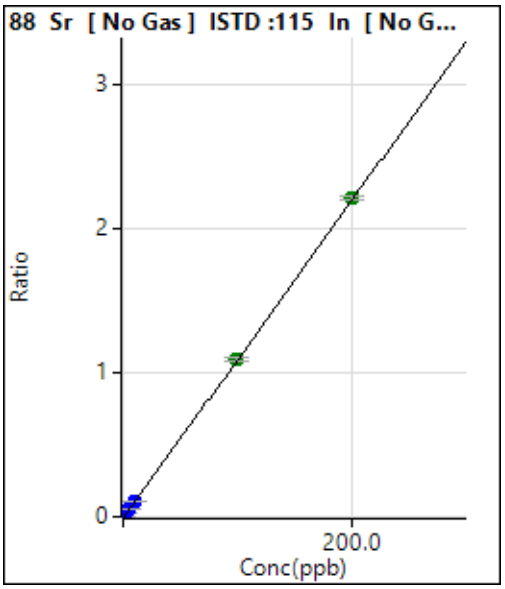
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 200.01 | 0.0001 | P | 38.2 | |
| 2 | ☐ | 2.000 | -215.533 | 170.00 | 0.0001 | P | 10.2 | -10876. |
| 3 | ☐ | 5.000 | -106.649 | 183.34 | 0.0001 | P | 16.5 | -2233.0 |
| 4 | ☐ | 10.000 | -88.045 | 183.34 | 0.0001 | P | 21.4 | -980.4 |
| 5 | ☐ | 100.000 | -217.110 | 156.67 | 0.0001 | P | 80.0 | -317.1 |
| 6 | ☐ | 200.000 | 368.424 | 220.01 | 0.0001 | P | 17.5 | 84.2 |

y = 4.0452E-008 * x + 6.2553E-005
R = 0.7170
DL = 1772 ppb
BEC = 1546 ppb

Weight: <None>
Min Conc: <None>

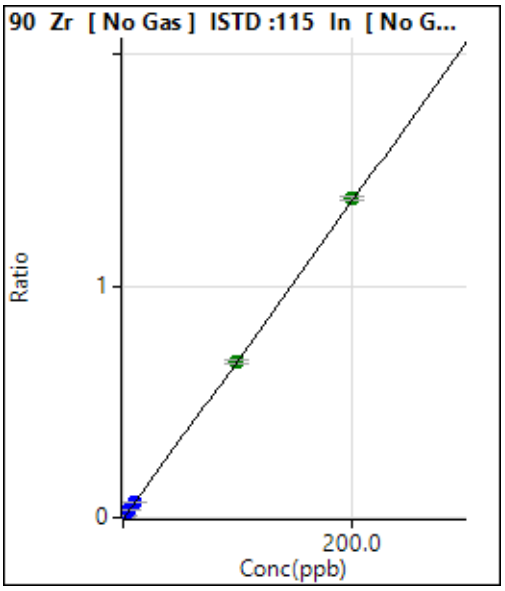



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2043.52 | 0.0005 | P | 14.3 | |
| 2 | ☐ | 2.000 | 2.046 | 100806.95 | 0.0231 | P | 1.8 | 2.3 |
| 3 | ☐ | 5.000 | 5.108 | 246714.32 | 0.0569 | P | 1.8 | 2.2 |
| 4 | ☐ | 10.000 | 10.128 | 483170.04 | 0.1123 | P | 1.9 | 1.3 |
| 5 | ☐ | 100.000 | 98.543 | 4446349.20 | 1.0885 | A | 2.4 | -1.5 |
| 6 | ☐ | 200.000 | 200.719 | 8796152.37 | 2.2165 | A | 1.6 | 0.4 |

y = 0.0110 * x + 4.6204E-004
R = 1.0000
DL = 0.01796 ppb
BEC = 0.04185 ppb

Weight: <None>
Min Conc: <None>

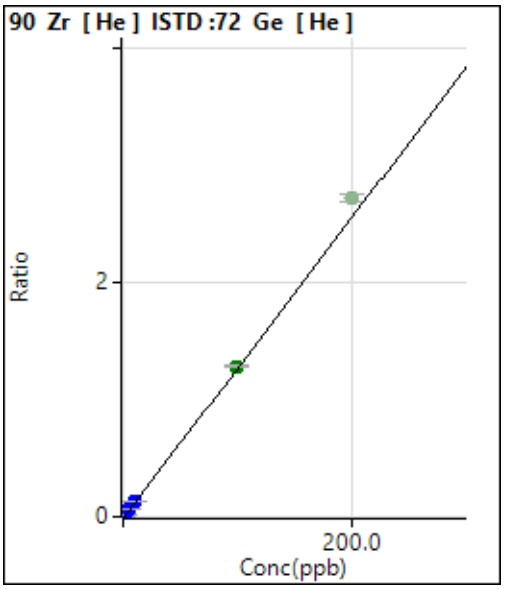
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1110.06 | 0.0003 | P | 6.6 | |
| 2 | ☐ | 2.000 | 1.664 | 50989.75 | 0.0117 | P | 1.1 | -16.8 |
| 3 | ☐ | 5.000 | 4.402 | 132064.15 | 0.0304 | P | 1.7 | -12.0 |
| 4 | ☐ | 10.000 | 9.338 | 276603.98 | 0.0643 | P | 1.2 | -6.6 |
| 5 | ☐ | 100.000 | 97.711 | 2737978.50 | 0.6703 | A | 2.3 | -2.3 |
| 6 | ☐ | 200.000 | 201.196 | 5475859.50 | 1.3798 | A | 1.3 | 0.6 |

y = 0.0069 * x + 2.5083E-004
R = 0.9999
DL = 0.007227 ppb
BEC = 0.03658 ppb

Weight: <None>
Min Conc: <None>

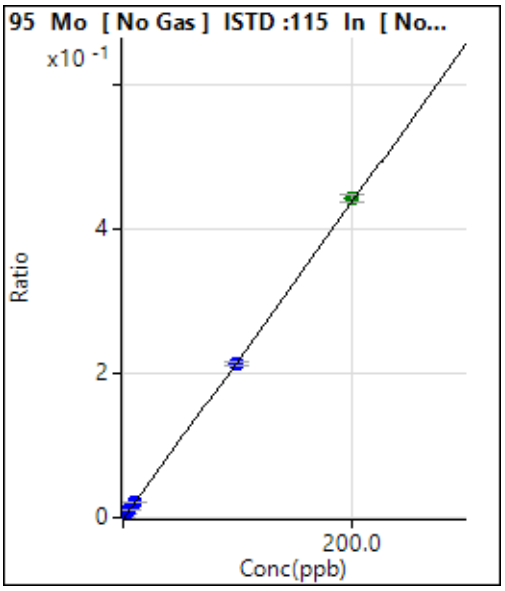



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1546.78 | 0.0017 | P | 7.0 | |
| 2 | ☐ | 2.000 | 1.699 | 20966.50 | 0.0235 | P | 3.5 | -15.0 |
| 3 | ☐ | 5.000 | 4.603 | 54058.52 | 0.0606 | P | 2.8 | -7.9 |
| 4 | ☐ | 10.000 | 9.651 | 111097.16 | 0.1253 | P | 1.6 | -3.5 |
| 5 | ☐ | 100.000 | 100.061 | 1083420.84 | 1.2827 | A | 1.9 | 0.1 |
| 6 | ☑ | 200.000 | | 2248455.17 | 2.7168 | A | 2.5 | |

y = 0.0128 * x + 0.0017
R = 1.0000
DL = 0.02786 ppb
BEC = 0.1328 ppb

Weight: <None>
Min Conc: <None>

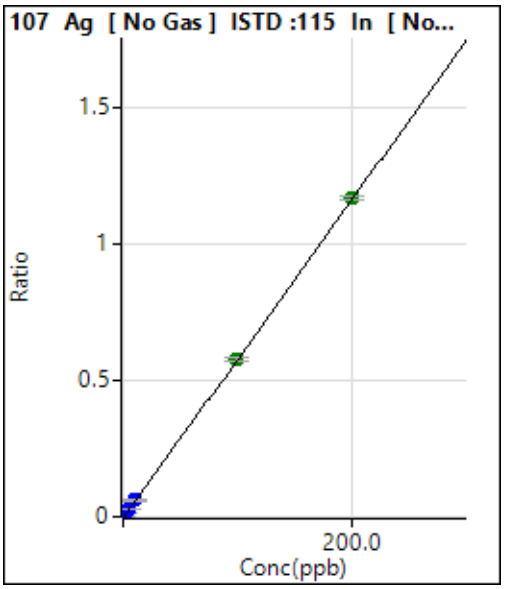
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 126.67 | 0.0000 | P | 15.8 | |
| 2 | ☐ | 2.000 | 1.938 | 18696.61 | 0.0043 | P | 3.9 | -3.1 |
| 3 | ☐ | 5.000 | 4.951 | 47206.40 | 0.0109 | P | 2.6 | -1.0 |
| 4 | ☐ | 10.000 | 9.890 | 93392.15 | 0.0217 | P | 2.5 | -1.1 |
| 5 | ☐ | 100.000 | 96.762 | 866437.20 | 0.2121 | P | 2.4 | -3.2 |
| 6 | ☐ | 200.000 | 201.626 | 1753771.80 | 0.4419 | A | 2.0 | 0.8 |

y = 0.0022 * x + 2.8607E-005
R = 0.9998
DL = 0.006193 ppb
BEC = 0.01305 ppb

Weight: <None>
Min Conc: <None>

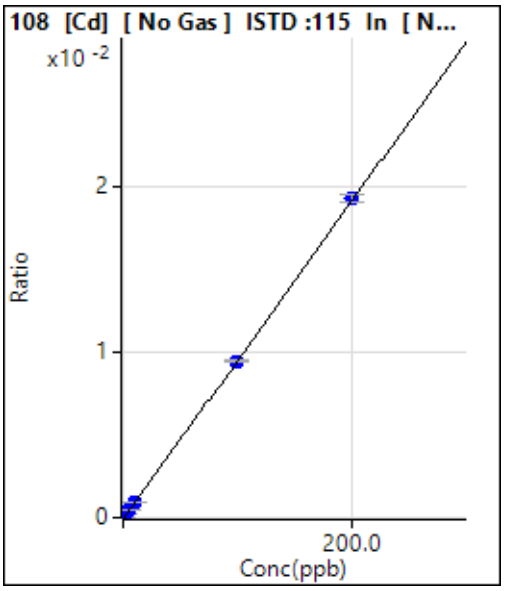



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 303.34 | 0.0001 | P | 31.9 | |
| 2 | ☐ | 2.000 | 2.098 | 53888.70 | 0.0123 | P | 2.2 | 4.9 |
| 3 | ☐ | 5.000 | 5.180 | 131578.56 | 0.0303 | P | 1.9 | 3.6 |
| 4 | ☐ | 10.000 | 10.342 | 260214.48 | 0.0605 | P | 2.0 | 3.4 |
| 5 | ☐ | 100.000 | 99.293 | 2369307.93 | 0.5800 | A | 2.0 | -0.7 |
| 6 | ☐ | 200.000 | 200.331 | 4643518.78 | 1.1701 | A | 1.4 | 0.2 |

y = 0.0058 * x + 6.8653E-005
R = 1.0000
DL = 0.01125 ppb
BEC = 0.01175 ppb

Weight: <None>
Min Conc: <None>

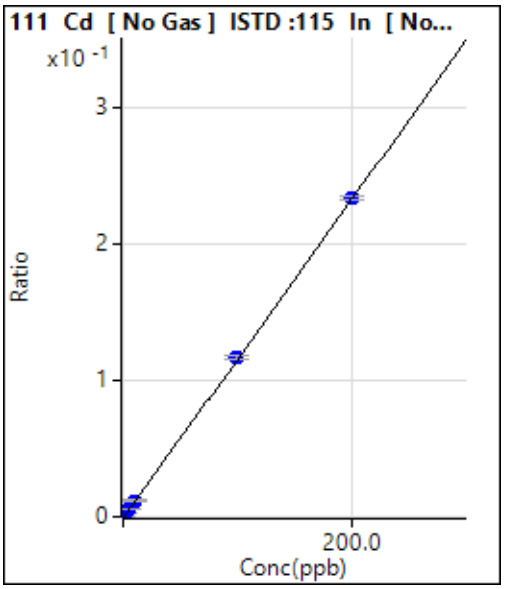
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 10.00 | 0.0000 | P | 100.2 | |
| 2 | ☐ | 2.000 | 2.102 | 893.38 | 0.0002 | P | 8.0 | 5.1 |
| 3 | ☐ | 5.000 | 4.693 | 1966.85 | 0.0005 | P | 14.7 | -6.1 |
| 4 | ☐ | 10.000 | 9.909 | 4107.37 | 0.0010 | P | 3.5 | -0.9 |
| 5 | ☐ | 100.000 | 98.249 | 38582.61 | 0.0094 | P | 0.8 | -1.8 |
| 6 | ☐ | 200.000 | 200.887 | 76619.08 | 0.0193 | P | 2.4 | 0.4 |

y = 9.6100E-005 * x + 2.2713E-006
R = 0.9999
DL = 0.07107 ppb
BEC = 0.02363 ppb

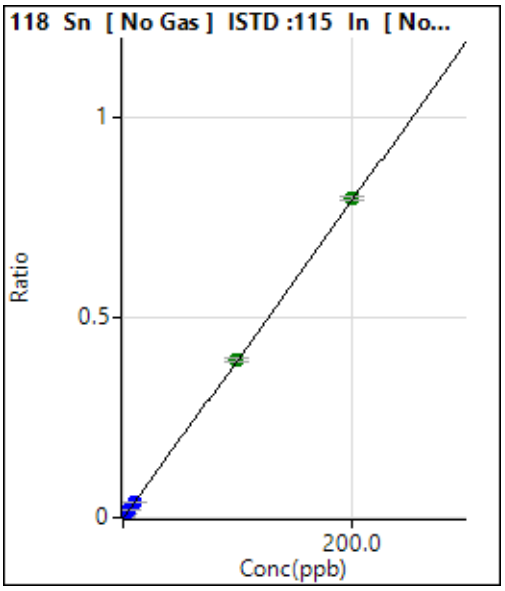
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | -7.40 | 0.0000 | P | -214. | |
| 2 | ☐ | 2.000 | 1.973 | 10099.50 | 0.0023 | P | 5.6 | -1.4 |
| 3 | ☐ | 5.000 | 5.059 | 25709.01 | 0.0059 | P | 3.3 | 1.2 |
| 4 | ☐ | 10.000 | 10.136 | 51091.88 | 0.0119 | P | 2.5 | 1.4 |
| 5 | ☐ | 100.000 | 99.931 | 478228.22 | 0.1171 | P | 1.6 | -0.1 |
| 6 | ☐ | 200.000 | 200.027 | 929935.39 | 0.2343 | P | 1.2 | 0.0 |

y = 0.0012 * x - 1.6896E-006
R = 1.0000
DL = 0.009272 ppb
BEC = -0.001442 ppb

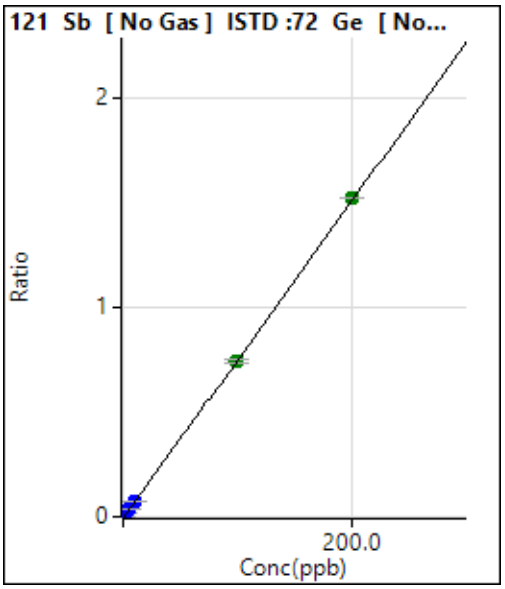
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7792.59 | 0.0018 | P | 90.4 | |
| 2 | ☐ | 2.000 | 1.722 | 37580.33 | 0.0086 | P | 1.7 | -13.9 |
| 3 | ☐ | 5.000 | 4.647 | 87664.91 | 0.0202 | P | 2.5 | -7.1 |
| 4 | ☐ | 10.000 | 9.723 | 173686.49 | 0.0404 | P | 1.5 | -2.8 |
| 5 | ☐ | 100.000 | 98.589 | 1606338.05 | 0.3932 | A | 2.6 | -1.4 |
| 6 | ☐ | 200.000 | 200.731 | 3170027.97 | 0.7988 | A | 1.2 | 0.4 |

y = 0.0040 * x + 0.0018
R = 1.0000
DL = 1.198 ppb
BEC = 0.4417 ppb

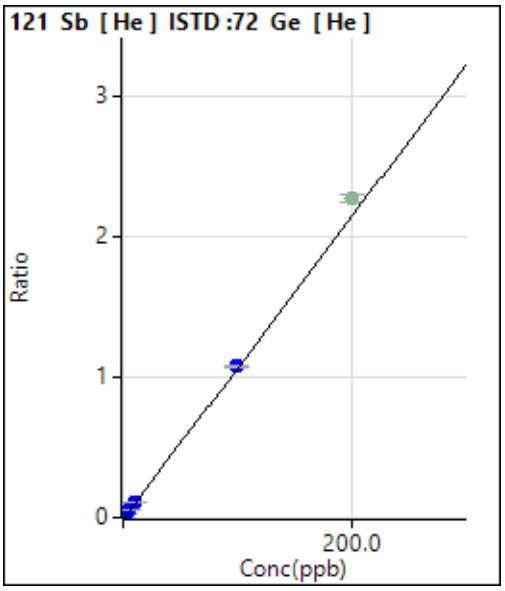
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 613.36 | 0.0002 | P | 14.2 | |
| 2 | ☐ | 2.000 | 1.914 | 46424.92 | 0.0147 | P | 1.8 | -4.3 |
| 3 | ☐ | 5.000 | 4.808 | 115324.75 | 0.0366 | P | 2.3 | -3.8 |
| 4 | ☐ | 10.000 | 9.750 | 230101.50 | 0.0741 | P | 1.4 | -2.5 |
| 5 | ☐ | 100.000 | 97.932 | 2170757.83 | 0.7426 | A | 2.6 | -2.1 |
| 6 | ☐ | 200.000 | 201.052 | 4326346.60 | 1.5244 | A | 0.5 | 0.5 |

y = 0.0076 * x + 1.9131E-004
R = 0.9999
DL = 0.01078 ppb
BEC = 0.02523 ppb

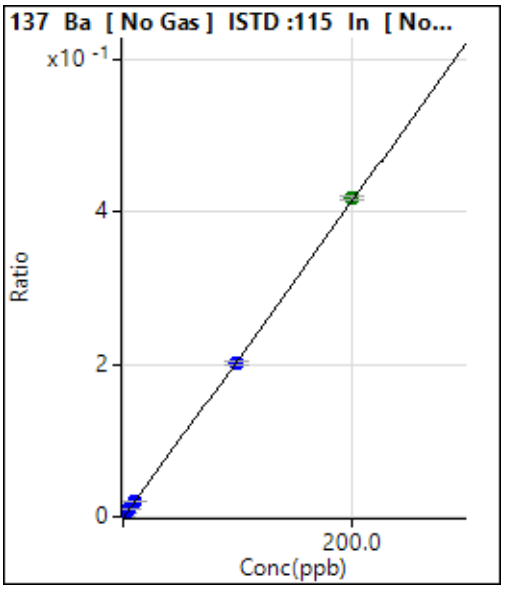
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 270.01 | 0.0003 | P | 2.9 | |
| 2 | ☐ | 2.000 | 1.985 | 19414.50 | 0.0217 | P | 2.2 | -0.7 |
| 3 | ☐ | 5.000 | 5.048 | 48830.03 | 0.0548 | P | 2.9 | 1.0 |
| 4 | ☐ | 10.000 | 10.038 | 96338.64 | 0.1086 | P | 2.1 | 0.4 |
| 5 | ☐ | 100.000 | 99.994 | 911668.94 | 1.0793 | P | 1.6 | 0.0 |
| 6 | ☑ | 200.000 | | 1885754.97 | 2.2786 | A | 2.3 | |

y = 0.0108 * x + 2.9669E-004
R = 1.0000
DL = 0.00237 ppb
BEC = 0.02749 ppb

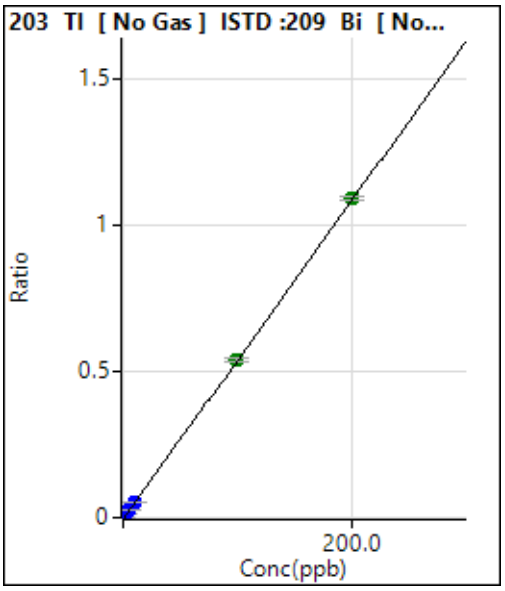
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 633.36 | 0.0001 | P | 20.8 | |
| 2 | ☐ | 2.000 | 1.950 | 18346.41 | 0.0042 | P | 2.8 | -2.5 |
| 3 | ☐ | 5.000 | 4.956 | 45298.23 | 0.0104 | P | 2.4 | -0.9 |
| 4 | ☐ | 10.000 | 9.867 | 88836.43 | 0.0206 | P | 4.7 | -1.3 |
| 5 | ☐ | 100.000 | 97.284 | 826307.96 | 0.2023 | P | 1.9 | -2.7 |
| 6 | ☐ | 200.000 | 201.366 | 1660976.80 | 0.4185 | A | 1.3 | 0.7 |

y = 0.0021 * x + 1.4299E-004
R = 0.9999
DL = 0.04294 ppb
BEC = 0.06882 ppb

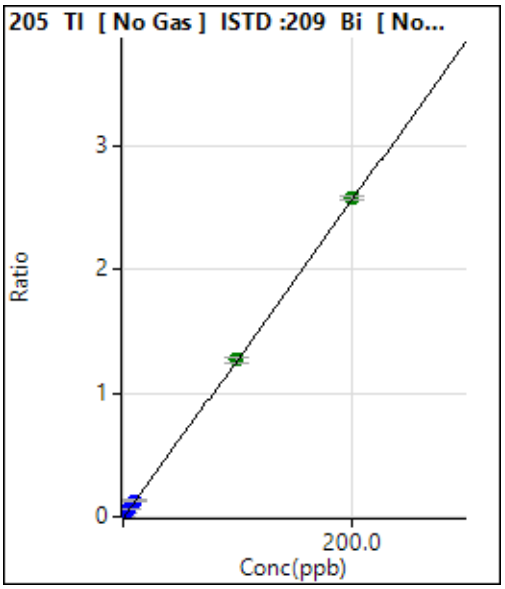
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 306.68 | 0.0001 | P | 34.6 | |
| 2 | ☐ | 2.000 | 2.068 | 55087.37 | 0.0113 | P | 1.4 | 3.4 |
| 3 | ☐ | 5.000 | 5.130 | 134948.34 | 0.0280 | P | 2.6 | 2.6 |
| 4 | ☐ | 10.000 | 10.073 | 266008.66 | 0.0549 | P | 1.7 | 0.7 |
| 5 | ☐ | 100.000 | 98.988 | 2475478.45 | 0.5390 | A | 3.1 | -1.0 |
| 6 | ☐ | 200.000 | 200.498 | 4844499.61 | 1.0916 | A | 0.9 | 0.2 |

y = 0.0054 * x + 6.2523E-005
R = 1.0000
DL = 0.01191 ppb
BEC = 0.01148 ppb

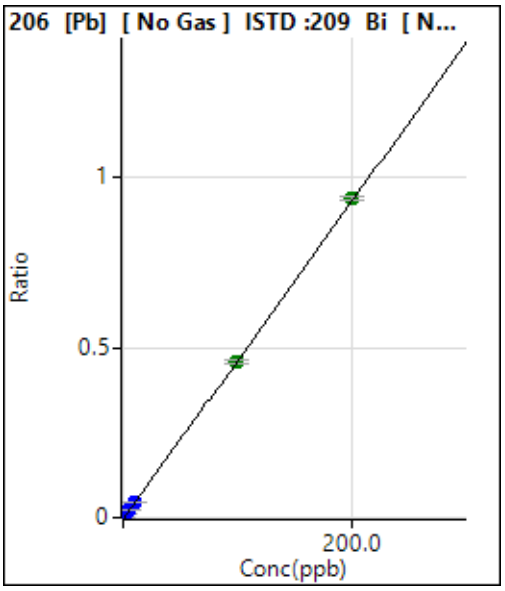
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 690.04 | 0.0001 | P | 13.9 | |
| 2 | ☐ | 2.000 | 2.067 | 130025.36 | 0.0267 | P | 0.8 | 3.3 |
| 3 | ☐ | 5.000 | 5.172 | 321407.94 | 0.0667 | P | 1.6 | 3.4 |
| 4 | ☐ | 10.000 | 10.170 | 634396.28 | 0.1309 | P | 2.0 | 1.7 |
| 5 | ☐ | 100.000 | 98.762 | 5834332.00 | 1.2703 | A | 3.1 | -1.2 |
| 6 | ☐ | 200.000 | 200.606 | 11450363.58 | 2.5800 | A | 1.0 | 0.3 |

y = 0.0129 * x + 1.4080E-004
R = 1.0000
DL = 0.004553 ppb
BEC = 0.01095 ppb

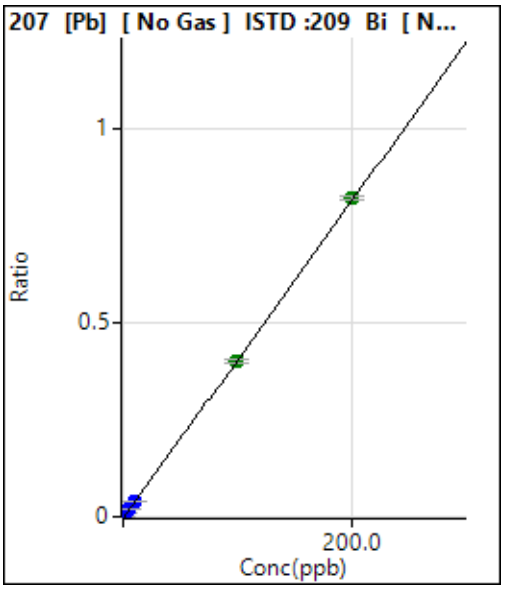
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 613.36 | 0.0001 | P | 1.1 | |
| 2 | ☐ | 2.000 | 1.974 | 45428.86 | 0.0093 | P | 2.2 | -1.3 |
| 3 | ☐ | 5.000 | 5.028 | 113712.79 | 0.0236 | P | 2.5 | 0.6 |
| 4 | ☐ | 10.000 | 9.913 | 224739.88 | 0.0464 | P | 1.1 | -0.9 |
| 5 | ☐ | 100.000 | 97.820 | 2097034.92 | 0.4566 | A | 2.7 | -2.2 |
| 6 | ☐ | 200.000 | 201.094 | 4164933.58 | 0.9385 | A | 1.0 | 0.5 |

y = 0.0047 * x + 1.2522E-004
R = 0.9999
DL = 0.0008833 ppb
BEC = 0.02683 ppb

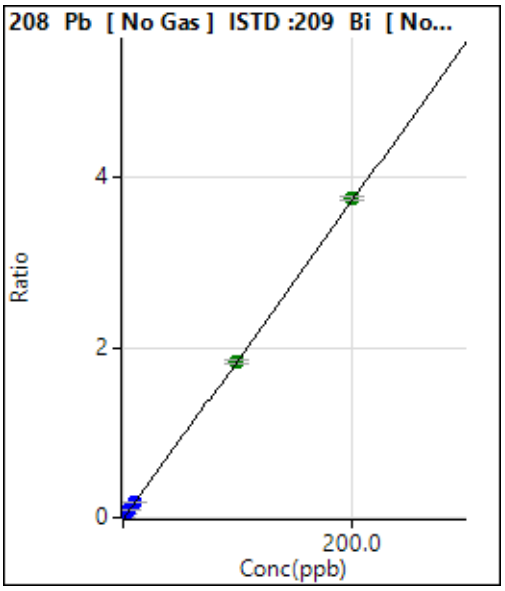
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 526.69 | 0.0001 | P | 2.5 | |
| 2 | ☐ | 2.000 | 1.977 | 39916.91 | 0.0082 | P | 2.8 | -1.1 |
| 3 | ☐ | 5.000 | 4.949 | 98247.52 | 0.0204 | P | 1.1 | -1.0 |
| 4 | ☐ | 10.000 | 9.792 | 194824.24 | 0.0402 | P | 1.1 | -2.1 |
| 5 | ☐ | 100.000 | 98.116 | 1846001.28 | 0.4019 | A | 2.1 | -1.9 |
| 6 | ☐ | 200.000 | 200.954 | 3652784.63 | 0.8230 | A | 1.2 | 0.5 |

y = 0.0041 * x + 1.0751E-004
R = 0.9999
DL = 0.001976 ppb
BEC = 0.02625 ppb

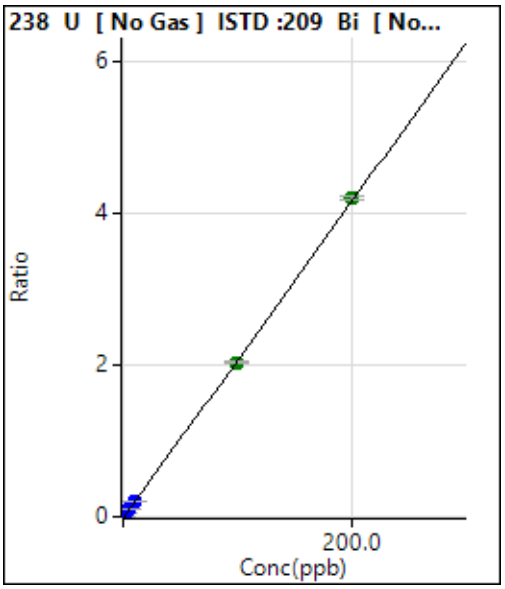
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2323.46 | 0.0005 | P | 5.2 | |
| 2 | ☐ | 2.000 | 1.983 | 182555.67 | 0.0375 | P | 1.1 | -0.8 |
| 3 | ☐ | 5.000 | 5.001 | 452680.68 | 0.0939 | P | 1.6 | 0.0 |
| 4 | ☐ | 10.000 | 9.922 | 900363.97 | 0.1858 | P | 1.0 | -0.8 |
| 5 | ☐ | 100.000 | 98.116 | 8420353.73 | 1.8333 | A | 2.1 | -1.9 |
| 6 | ☐ | 200.000 | 200.946 | 16660976.42 | 3.7541 | A | 0.8 | 0.5 |

y = 0.0187 * x + 4.7423E-004
R = 0.9999
DL = 0.003976 ppb
BEC = 0.02539 ppb

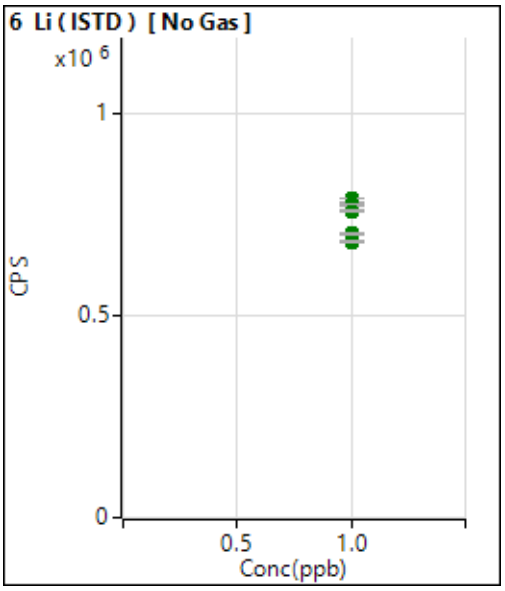
Weight: <None>
Min Conc: <None>



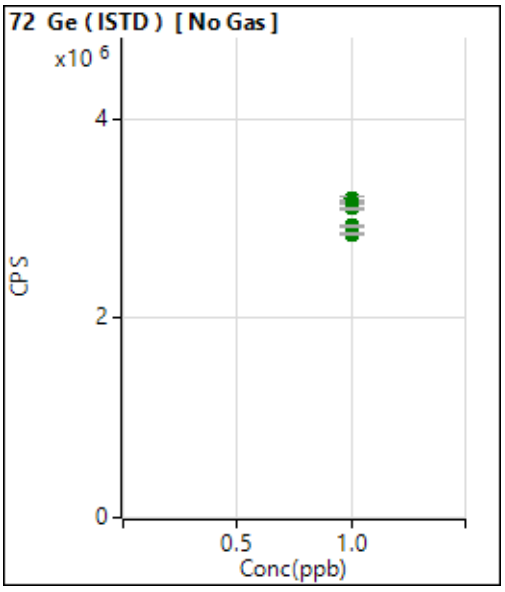

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1480.12 | 0.0003 | P | 5.6 | |
| 2 | ☐ | 2.000 | 1.852 | 189250.53 | 0.0389 | P | 0.7 | -7.4 |
| 3 | ☐ | 5.000 | 4.679 | 471674.98 | 0.0978 | P | 0.8 | -6.4 |
| 4 | ☐ | 10.000 | 9.283 | 938876.92 | 0.1938 | P | 0.9 | -7.2 |
| 5 | ☐ | 100.000 | 97.517 | 9336513.61 | 2.0327 | A | 1.8 | -2.5 |
| 6 | ☐ | 200.000 | 201.287 | 18618820.56 | 4.1953 | A | 1.2 | 0.6 |

y = 0.0208 * x + 3.0208E-004
R = 0.9999
DL = 0.002426 ppb
BEC = 0.01449 ppb

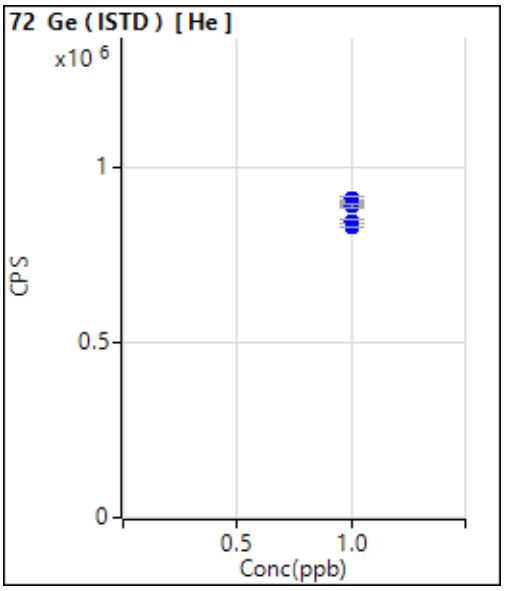
Weight: <None>
Min Conc: <None>



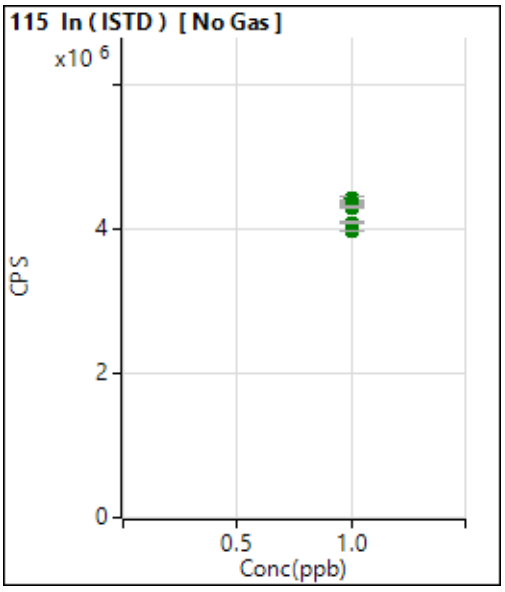

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 789600.72 | | A | 0.1 | |
| 2 | ☐ | 1.000 | | 775224.95 | | A | 0.7 | |
| 3 | ☐ | 1.000 | | 773452.79 | | A | 0.2 | |
| 4 | ☐ | 1.000 | | 758349.11 | | A | 0.7 | |
| 5 | ☐ | 1.000 | | 702121.63 | | A | 0.9 | |
| 6 | ☐ | 1.000 | | 682313.47 | | A | 0.4 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3202766.93 | | A | 1.1 | |
| 2 | ☐ | 1.000 | | 3158043.81 | | A | 0.8 | |
| 3 | ☐ | 1.000 | | 3147283.08 | | A | 0.4 | |
| 4 | ☐ | 1.000 | | 3105103.60 | | A | 0.7 | |
| 5 | ☐ | 1.000 | | 2923348.81 | | A | 0.8 | |
| 6 | ☐ | 1.000 | | 2838106.21 | | A | 0.7 | |

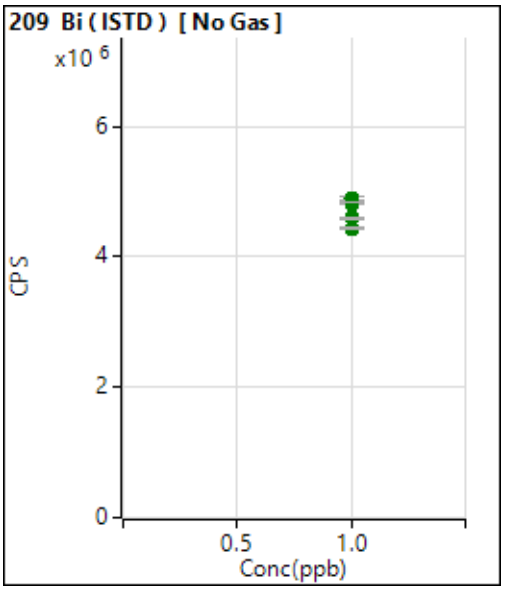



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 909952.25 | | P | 1.0 | |
| 2 | ☐ | 1.000 | | 893987.98 | | P | 0.8 | |
| 3 | ☐ | 1.000 | | 891524.36 | | P | 0.4 | |
| 4 | ☐ | 1.000 | | 886961.47 | | P | 0.9 | |
| 5 | ☐ | 1.000 | | 844684.91 | | P | 1.3 | |
| 6 | ☐ | 1.000 | | 827580.22 | | P | 0.4 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4425209.38 | | A | 0.8 | |
| 2 | ☐ | 1.000 | | 4373188.50 | | A | 0.2 | |
| 3 | ☐ | 1.000 | | 4339244.30 | | A | 0.7 | |
| 4 | ☐ | 1.000 | | 4303189.89 | | A | 0.2 | |
| 5 | ☐ | 1.000 | | 4085281.93 | | A | 0.7 | |
| 6 | ☐ | 1.000 | | 3968529.13 | | A | 0.3 | |

Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4898592.22 | | A | 0.6 | |
| 2 | ☐ | 1.000 | | 4865545.24 | | A | 0.6 | |
| 3 | ☐ | 1.000 | | 4821597.12 | | A | 0.7 | |
| 4 | ☐ | 1.000 | | 4845240.35 | | A | 0.3 | |
| 5 | ☐ | 1.000 | | 4593412.85 | | A | 0.6 | |
| 6 | ☐ | 1.000 | | 4438006.81 | | A | 0.5 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LLCCV2 |
| Data File Name | 174LCV2.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T18:54:25-05:00 |
| Sample Type | LLCCV2 |
| Dilution | 1 |
| Comment | |
| ISTD Ref FileName | 165CALB.d |
| Sample QC Pass/Fail | Pass |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 2.225 | 2.225 | 5.32 | 65444 | 0.00 | 2 | |
| Be | 9 | 1 | No Gas | 2.050 | 2.050 | 2.00 | 5499 | 0.04 | 2 | |
| V | 51 | 2 | He | 1.696 | 1.696 | 4.67 | 17897 | 0.01 | 2 | |
| Cr | 52 | 2 | He | 2.055 | 2.055 | 3.25 | 23584 | 0.01 | 2 | |
| Fe | 56 | 2 | He | 201.574 | 201.574 | 1.96 | 1447792 | 0.01 | 200 | |
| Se | 78 | 2 | He | 2.386 | 2.386 | 12.77 | 355 | 0.67 | 2 | |
| As | 75 | 2 | He | 1.941 | 1.941 | 2.31 | 2625 | 0.07 | 2 | |
| Ca | 44 | 2 | He | 212.879 | 212.879 | 4.98 | 9140 | 2.33 | 200 | |
| Na | 23 | 2 | He | 195.892 | 195.892 | 2.42 | 286313 | 0.07 | 200 | |
| Mg | 24 | 2 | He | 202.879 | 202.879 | 1.55 | 132565 | 0.15 | 200 | |
| K | 39 | 2 | He | 197.643 | 197.643 | 2.62 | 243846 | 0.08 | 200 | |
| Mn | 55 | 2 | He | 1.994 | 1.994 | 5.10 | 12062 | 0.02 | 2 | |
| Co | 59 | 2 | He | 2.094 | 2.094 | 0.72 | 24796 | 0.01 | 2 | |
| Ni | 60 | 2 | He | 2.056 | 2.056 | 3.00 | 6375 | 0.03 | 2 | |
| Cu | 63 | 2 | He | 2.034 | 2.034 | 2.74 | 17291 | 0.01 | 2 | |
| Zn | 66 | 2 | He | 2.161 | 2.161 | 8.40 | 4091 | 0.05 | 2 | |
| Al | 27 | 2 | He | 1.919 | 1.919 | 8.49 | 1720 | 0.11 | 2 | |
| B | 11 | 1 | No Gas | 11.850 | 11.850 | 2.03 | 27014 | 0.04 | 10 | |
| Al | 27 | 1 | No Gas | 2.001 | 2.001 | 4.68 | 61357 | 0.00 | 2 | |
| Si | 28 | 1 | No Gas | 10.315 | 10.315 | 1.46 | 244322 | 0.00 | 10 | |
| Ag | 107 | 1 | No Gas | 2.034 | 2.034 | 3.29 | 49740 | 0.00 | 2 | |
| Cd | 111 | 1 | No Gas | 1.999 | 1.999 | 8.01 | 9739 | 0.02 | 2 | |
| Sr | 88 | 1 | No Gas | 2.038 | 2.038 | 2.79 | 95569 | 0.00 | 2 | |
| Mo | 95 | 1 | No Gas | 1.965 | 1.965 | 0.37 | 18042 | 0.01 | 2 | |
| Sn | 118 | 1 | No Gas | 1.787 | 1.787 | 3.27 | 36838 | 0.00 | 2 | |
| Sb | 121 | 1 | No Gas | 1.994 | 1.994 | 2.15 | 45562 | 0.00 | 2 | |
| Ba | 137 | 1 | No Gas | 1.964 | 1.964 | 2.91 | 17579 | 0.01 | 2 | |
| Tl | 205 | 1 | No Gas | 2.068 | 2.068 | 1.25 | 126433 | 0.00 | 2 | |
| Tl | 203 | 1 | No Gas | 2.086 | 2.086 | 2.05 | 53992 | 0.00 | 2 | |
| Pb | 208 | 1 | No Gas | 1.992 | 1.992 | 1.05 | 178240 | 0.00 | 2 | |
| U | 238 | 1 | No Gas | 1.870 | 1.870 | 1.30 | 185768 | 0.00 | 2 | |
| Ca | 43 | 2 | He | 247.541 | 247.541 | 28.98 | 633 | 39.08 | 200 | |
| Sb | 121 | 2 | He | 1.934 | 1.934 | 1.75 | 18974 | 0.01 | 2 | |
| Ti | 47 | 2 | He | 1.962 | 1.962 | 18.66 | 480 | 0.41 | 200 | |
| Cu | 63 | 1 | No Gas | 2.137 | 2.137 | 1.94 | 33107 | 0.01 | 2 | |
| Se | 82 | 1 | No Gas | 1.904 | 1.904 | 25.96 | 913 | 0.21 | 2 | |
| Zr | 90 | 1 | No Gas | 1.702 | 1.702 | 1.76 | 49614 | 0.00 | 2 | |
| Zr | 90 | 2 | He | 1.648 | 1.648 | 8.76 | 20462 | 0.01 | 2 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 724437 | 0.26 | 789601 | 91.75 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ge | 72 | 2 | He | 858997 | 1.16 | 909952 | 94.40 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2975743 | 0.20 | 3202767 | 92.91 | 70 | 120 | |
| In | 115 | 1 | No Gas | 4162766 | 0.27 | 4425209 | 94.07 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4729303 | 0.18 | 4898592 | 96.54 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LLCCV5 |
| Data File Name | 175LCV5.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T18:56:50-05:00 |
| Sample Type | LLCCV5 |
| Dilution | 1 |
| Comment | |
| ISTD Ref FileName | 165CALB.d |
| Sample QC Pass/Fail | Pass |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 5.377 | 5.377 | 1.96 | 94430 | 0.01 | 5 | |
| Be | 9 | 1 | No Gas | 5.017 | 5.017 | 4.19 | 13308 | 0.04 | 5 | |
| V | 51 | 2 | He | 4.882 | 4.882 | 1.35 | 38745 | 0.01 | 5 | |
| Cr | 52 | 2 | He | 5.144 | 5.144 | 2.53 | 46806 | 0.01 | 5 | |
| Fe | 56 | 2 | He | 519.484 | 519.484 | 1.08 | 3708475 | 0.01 | 500 | |
| Se | 78 | 2 | He | 4.858 | 4.858 | 7.39 | 617 | 0.79 | 5 | |
| As | 75 | 2 | He | 5.086 | 5.086 | 2.09 | 6357 | 0.08 | 5 | |
| Ca | 44 | 2 | He | 516.717 | 516.717 | 4.21 | 21440 | 2.41 | 500 | |
| Na | 23 | 2 | He | 511.288 | 511.288 | 1.01 | 615513 | 0.08 | 500 | |
| Mg | 24 | 2 | He | 517.686 | 517.686 | 1.72 | 335194 | 0.15 | 500 | |
| K | 39 | 2 | He | 510.458 | 510.458 | 2.25 | 487131 | 0.10 | 500 | |
| Mn | 55 | 2 | He | 5.060 | 5.060 | 2.74 | 29769 | 0.02 | 5 | |
| Co | 59 | 2 | He | 5.238 | 5.238 | 2.04 | 61802 | 0.01 | 5 | |
| Ni | 60 | 2 | He | 5.334 | 5.334 | 0.53 | 16153 | 0.03 | 5 | |
| Cu | 63 | 2 | He | 5.225 | 5.225 | 3.24 | 43406 | 0.01 | 5 | |
| Zn | 66 | 2 | He | 5.118 | 5.118 | 5.06 | 8576 | 0.06 | 5 | |
| Al | 27 | 2 | He | 5.526 | 5.526 | 10.93 | 3170 | 0.17 | 5 | |
| B | 11 | 1 | No Gas | 26.727 | 26.727 | 1.55 | 51471 | 0.05 | 25 | |
| Al | 27 | 1 | No Gas | 4.895 | 4.895 | 1.75 | 102397 | 0.00 | 5 | |
| Si | 28 | 1 | No Gas | 26.153 | 26.153 | 1.00 | 356579 | 0.01 | 25 | |
| Ag | 107 | 1 | No Gas | 5.175 | 5.175 | 1.77 | 127581 | 0.00 | 5 | |
| Cd | 111 | 1 | No Gas | 5.189 | 5.189 | 4.23 | 25596 | 0.02 | 5 | |
| Sr | 88 | 1 | No Gas | 5.012 | 5.012 | 0.80 | 234964 | 0.00 | 5 | |
| Mo | 95 | 1 | No Gas | 4.914 | 4.914 | 3.11 | 45474 | 0.01 | 5 | |
| Sn | 118 | 1 | No Gas | 4.845 | 4.845 | 1.68 | 88400 | 0.01 | 5 | |
| Sb | 121 | 1 | No Gas | 4.963 | 4.963 | 1.61 | 112535 | 0.00 | 5 | |
| Ba | 137 | 1 | No Gas | 4.979 | 4.979 | 2.29 | 44164 | 0.01 | 5 | |
| Tl | 205 | 1 | No Gas | 5.202 | 5.202 | 2.22 | 319304 | 0.00 | 5 | |
| Tl | 203 | 1 | No Gas | 5.143 | 5.143 | 1.95 | 133663 | 0.00 | 5 | |
| Pb | 208 | 1 | No Gas | 5.003 | 5.003 | 1.61 | 447381 | 0.00 | 5 | |
| U | 238 | 1 | No Gas | 4.741 | 4.741 | 0.84 | 472100 | 0.00 | 5 | |
| Ca | 43 | 2 | He | 509.637 | 509.637 | 5.14 | 1257 | 40.55 | 500 | |
| Sb | 121 | 2 | He | 5.132 | 5.132 | 2.50 | 47803 | 0.01 | 5 | |
| Ti | 47 | 2 | He | 5.577 | 5.577 | 7.81 | 1330 | 0.42 | 5 | |
| Cu | 63 | 1 | No Gas | 5.302 | 5.302 | 2.32 | 80270 | 0.01 | 5 | |
| Se | 82 | 1 | No Gas | 5.466 | 5.466 | 12.17 | 1897 | 0.29 | 5 | |
| Zr | 90 | 1 | No Gas | 4.442 | 4.442 | 1.08 | 129324 | 0.00 | 5 | |
| Zr | 90 | 2 | He | 4.682 | 4.682 | 2.85 | 52927 | 0.01 | 5 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 719809 | 0.46 | 789601 | 91.16 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ge | 72 | 2 | He | 858518 | 0.41 | 909952 | 94.35 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2975803 | 0.30 | 3202767 | 92.91 | 70 | 120 | |
| In | 115 | 1 | No Gas | 4210948 | 0.56 | 4425209 | 95.16 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4763591 | 0.93 | 4898592 | 97.24 | 70 | 120 | |

# Initial Calibration Blank (ICB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICCB |
| Data File Name | 176_ICB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T18:59:14-05:00 |
| Sample Type | ICB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 0.034 | 139.3 | 44795 | 0.5 | 0.5 | |
| Be | 9 | 1 | No Gas | 0.005 | 89.2 | 57 | 22.2 | 0.5 | |
| V | 51 | 2 | He | -0.294 | -10.1 | 4930 | 3.2 | 2.5 | |
| Cr | 52 | 2 | He | 0.085 | 47.1 | 8890 | 2.5 | 2.5 | |
| Fe | 56 | 2 | He | 2.585 | 1.8 | 31977 | 1.4 | 100 | |
| Se | 78 | 2 | He | 0.257 | 17.0 | 130 | 4.6 | 1 | |
| As | 75 | 2 | He | -0.033 | -58.4 | 283 | 7.2 | 2.5 | |
| Ca | 44 | 2 | He | 29.793 | 12.4 | 1740 | 8.0 | 100 | |
| Na | 23 | 2 | He | -8.919 | -1.1 | 73323 | 1.2 | 100 | |
| Mg | 24 | 2 | He | 1.067 | 9.5 | 2584 | 3.5 | 100 | |
| K | 39 | 2 | He | -2.807 | -36.7 | 89023 | 1.0 | 100 | |
| Mn | 55 | 2 | He | 0.073 | 27.5 | 973 | 11.3 | 2.5 | |
| Co | 59 | 2 | He | 0.001 | 206.9 | 147 | 17.2 | 2.5 | |
| Ni | 60 | 2 | He | 0.082 | 16.2 | 490 | 8.9 | 2.5 | |
| Cu | 63 | 2 | He | 0.050 | 21.4 | 1050 | 7.4 | 1 | |
| Zn | 66 | 2 | He | 0.567 | 19.3 | 1697 | 10.5 | 2.5 | |
| Al | 27 | 2 | He | 2.111 | 18.5 | 1823 | 9.8 | 5 | |
| B | 11 | 1 | No Gas | 1.868 | 9.7 | 10364 | 2.5 | 0.5 | ICB Main CR1 Failed |
| Al | 27 | 1 | No Gas | 1.591 | 8.3 | 56463 | 2.8 | 5 | |
| Si | 28 | 1 | No Gas | 2.786 | 6.5 | 194184 | 1.5 | 10 | |
| Ag | 107 | 1 | No Gas | 0.008 | 55.5 | 500 | 23.1 | 2.5 | |
| Cd | 111 | 1 | No Gas | -0.001 | -281.2 | -11 | -97.9 | 1 | |
| Sr | 88 | 1 | No Gas | 0.074 | 4.1 | 5395 | 2.1 | 2.5 | |
| Mo | 95 | 1 | No Gas | 0.012 | 15.9 | 230 | 7.5 | 2.5 | |
| Sn | 118 | 1 | No Gas | -0.094 | -9.5 | 5851 | 2.9 | 5 | |
| Sb | 121 | 1 | No Gas | 0.023 | 25.4 | 1117 | 11.5 | 2.5 | |
| Ba | 137 | 1 | No Gas | 0.192 | 7.5 | 2297 | 5.9 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.005 | 14.0 | 987 | 4.8 | 1 | |
| Tl | 203 | 1 | No Gas | 0.004 | 58.8 | 407 | 15.6 | 1 | |
| Pb | 208 | 1 | No Gas | 0.009 | 16.8 | 3077 | 4.0 | 2.5 | |
| U | 238 | 1 | No Gas | -0.001 | -280.9 | 1383 | 12.4 | 2.5 | |
| Ca | 43 | 2 | He | 6.367 | 111.7 | 60 | 28.9 | 100 | |
| Sb | 121 | 2 | He | 0.027 | 4.3 | 513 | 3.0 | 2.5 | |
| Ti | 47 | 2 | He | -0.010 | -664.5 | 17 | 91.7 | 2.5 | |
| Se | 82 | 1 | No Gas | -0.101 | -396.5 | 367 | 31.6 | 1 | |
| Zr | 90 | 1 | No Gas | 0.097 | 14.1 | 3887 | 10.6 | 2.5 | |
| Zr | 90 | 2 | He | 0.073 | 2.1 | 2294 | 1.8 | 2.5 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 723264 | 0.50 | 789601 | 91.60 | 70 | 120 | |
| Ge | 72 | 2 | He | 870901 | 1.05 | 909952 | 95.71 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 3025810 | 0.87 | 3202767 | 94.47 | 70 | 120 | |
| In | 115 | 1 | No Gas | 4232403 | 0.51 | 4425209 | 95.64 | 70 | 120 | |

# Initial Calibration Blank (ICB) Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 4776619 | 0.44 | 4898592 | 97.51 | 70 | 120 | |

# Continuing Calibration Verification (CCV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCV |
| Data File Name | 179_CCV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T19:40:41-05:00 |
| Sample Type | CCV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Exp Value | %Rec | %Low | %High2 | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 99.766 | 2.367 | 980171 | 2.45 | 100 | 99.8 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 100.544 | 2.082 | 267309 | 2.35 | 100 | 100.5 | 90 | 110 | |
| V | 51 | 2 | He | 100.569 | 0.823 | 658401 | 0.97 | 100 | 100.6 | 90 | 110 | |
| Cr | 52 | 2 | He | 99.574 | 1.102 | 749152 | 1.26 | 100 | 99.6 | 90 | 110 | |
| Fe | 56 | 2 | He | 9972.965 | 1.696 | 70231221 | 1.86 | 10000 | 99.7 | 90 | 110 | |
| Se | 78 | 2 | He | 101.973 | 0.868 | 10834 | 1.01 | 100 | 102.0 | 90 | 110 | |
| As | 75 | 2 | He | 101.351 | 1.070 | 119417 | 1.23 | 100 | 101.4 | 90 | 110 | |
| Ca | 44 | 2 | He | 10147.677 | 1.314 | 407339 | 1.48 | 10000 | 101.5 | 90 | 110 | |
| Na | 23 | 2 | He | 9997.113 | 0.716 | 10413805 | 0.87 | 10000 | 100.0 | 90 | 110 | |
| Mg | 24 | 2 | He | 10151.568 | 0.771 | 6471595 | 0.93 | 10000 | 101.5 | 90 | 110 | |
| K | 39 | 2 | He | 10070.265 | 1.164 | 7844407 | 1.31 | 10000 | 100.7 | 90 | 110 | |
| Mn | 55 | 2 | He | 100.107 | 1.029 | 572888 | 1.19 | 100 | 100.1 | 90 | 110 | |
| Co | 59 | 2 | He | 101.133 | 1.905 | 1178768 | 2.06 | 100 | 101.1 | 90 | 110 | |
| Ni | 60 | 2 | He | 100.759 | 1.364 | 297781 | 1.51 | 100 | 100.8 | 90 | 110 | |
| Cu | 63 | 2 | He | 99.043 | 1.045 | 803152 | 1.21 | 100 | 99.0 | 90 | 110 | |
| Zn | 66 | 2 | He | 101.555 | 1.255 | 153311 | 1.42 | 100 | 101.6 | 90 | 110 | |
| Al | 27 | 2 | He | 101.760 | 1.865 | 41478 | 1.94 | 100 | 101.8 | 90 | 110 | |
| B | 11 | 1 | No Gas | 485.807 | 1.780 | 815839 | 2.00 | 500 | 97.2 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 102.005 | 2.252 | 1463196 | 2.53 | 100 | 102.0 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 505.863 | 2.588 | 3713958 | 2.80 | 5000 | 10.1 | 90 | 110 | CCV Main CR1-2 Failed |
| Ag | 107 | 1 | No Gas | 100.861 | 1.699 | 2397640 | 1.93 | 100 | 100.9 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 100.071 | 2.830 | 477102 | 3.05 | 100 | 100.1 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 100.727 | 2.627 | 4527820 | 2.86 | 100 | 100.7 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 98.403 | 1.584 | 877812 | 1.82 | 100 | 98.4 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 99.916 | 1.578 | 1621742 | 1.77 | 100 | 99.9 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 99.782 | 2.315 | 2226122 | 2.69 | 100 | 99.8 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 98.331 | 1.939 | 832049 | 2.09 | 100 | 98.3 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 98.251 | 1.598 | 5789690 | 2.50 | 100 | 98.3 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 98.710 | 1.709 | 2462309 | 2.49 | 100 | 98.7 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 98.565 | 1.409 | 8437473 | 2.28 | 100 | 98.6 | 90 | 110 | |
| U | 238 | 1 | No Gas | 98.267 | 0.985 | 9383860 | 1.83 | 100 | 98.3 | 90 | 110 | |
| Ca | 43 | 2 | He | 10175.430 | 2.008 | 24008 | 2.08 | 10000 | 101.8 | 90 | 110 | |
| Sb | 121 | 2 | He | 102.532 | 1.105 | 940432 | 1.22 | 100 | 102.5 | 90 | 110 | |
| Ti | 47 | 2 | He | 101.293 | 1.066 | 23597 | 1.21 | 100 | 101.3 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 102.927 | 2.251 | 1517735 | 2.56 | 100 | 102.9 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 98.806 | 2.206 | 27358 | 2.71 | 100 | 98.8 | 90 | 110 | |
| Zr | 90 | 1 | No Gas | 90.769 | 2.058 | 2534002 | 2.29 | 100 | 90.8 | 90 | 110 | |
| Zr | 90 | 2 | He | 93.543 | 0.755 | 1019079 | 0.91 | 100 | 93.5 | 90 | 110 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 723586 | 0.30 | 789601 | 91.64 | 70 | 120 | |
| Ge | 72 | 2 | He | 849730 | 0.17 | 909952 | 93.38 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2941968 | 0.54 | 3202767 | 91.86 | 70 | 120 | |
| In | 115 | 1 | No Gas | 4069552 | 0.25 | 4425209 | 91.96 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4581100 | 0.95 | 4898592 | 93.52 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCB |
| Data File Name | 180_CCB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T19:43:05-05:00 |
| Sample Type | CCB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | -0.052 | -127.8 | 46246 | 1.6 | 0.5 | |
| Be | 9 | 1 | No Gas | 0.019 | 29.7 | 97 | 15.8 | 0.5 | |
| V | 51 | 2 | He | -0.640 | -0.2 | 2601 | 0.4 | 2.5 | |
| Cr | 52 | 2 | He | -0.251 | -7.7 | 6262 | 2.8 | 2.5 | |
| Fe | 56 | 2 | He | 0.986 | 2.7 | 20232 | 1.0 | 100 | |
| Se | 78 | 2 | He | 0.101 | 169.4 | 112 | 16.4 | 2 | |
| As | 75 | 2 | He | -0.060 | -43.1 | 248 | 12.2 | 2.5 | |
| Ca | 44 | 2 | He | 13.404 | 12.3 | 1057 | 6.8 | 100 | |
| Na | 23 | 2 | He | -6.620 | -7.4 | 74988 | 1.1 | 100 | |
| Mg | 24 | 2 | He | 0.655 | 38.4 | 2290 | 6.9 | 100 | |
| K | 39 | 2 | He | -0.814 | -225.8 | 89680 | 2.0 | 100 | |
| Mn | 55 | 2 | He | 0.128 | 8.6 | 1283 | 4.8 | 2.5 | |
| Co | 59 | 2 | He | 0.005 | 83.2 | 193 | 26.0 | 2.5 | |
| Ni | 60 | 2 | He | 0.209 | 16.3 | 867 | 12.2 | 2.5 | |
| Cu | 63 | 2 | He | 0.047 | 6.7 | 1020 | 2.6 | 2 | |
| Zn | 66 | 2 | He | 1.196 | 12.7 | 2637 | 8.7 | 2.5 | |
| Al | 27 | 2 | He | -0.514 | -56.3 | 743 | 16.2 | 5 | |
| B | 11 | 1 | No Gas | 3.781 | 23.1 | 14241 | 10.8 | 0.5 | CCB Main CR1 Failed |
| Al | 27 | 1 | No Gas | -0.357 | -8.7 | 28115 | 1.6 | 5 | |
| Si | 28 | 1 | No Gas | 12.825 | 2.1 | 264175 | 0.6 | 10 | CCB Main CR1 Failed |
| Ag | 107 | 1 | No Gas | 0.013 | 3.4 | 600 | 1.7 | 2.5 | |
| Cd | 111 | 1 | No Gas | 0.006 | 74.8 | 22 | 98.6 | 1 | |
| Sr | 88 | 1 | No Gas | -0.006 | -52.8 | 1643 | 8.5 | 2.5 | |
| Mo | 95 | 1 | No Gas | 0.057 | 41.1 | 643 | 32.7 | 2.5 | |
| Sn | 118 | 1 | No Gas | -0.108 | -24.9 | 5555 | 7.5 | 5 | |
| Sb | 121 | 1 | No Gas | 0.051 | 12.5 | 1723 | 8.1 | 2.5 | |
| Ba | 137 | 1 | No Gas | -0.023 | -18.7 | 400 | 10.0 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.057 | 49.6 | 4104 | 42.7 | 1 | |
| Tl | 203 | 1 | No Gas | 0.060 | 59.3 | 1814 | 50.8 | 1 | |
| Pb | 208 | 1 | No Gas | 0.010 | 9.0 | 3080 | 3.3 | 2.5 | |
| U | 238 | 1 | No Gas | 0.004 | 13.2 | 1760 | 2.0 | 2.5 | |
| Ca | 43 | 2 | He | 13.661 | 154.8 | 77 | 65.7 | 100 | |
| Sb | 121 | 2 | He | 0.048 | 26.8 | 707 | 17.6 | 2.5 | |
| Ti | 47 | 2 | He | -0.009 | -947.8 | 17 | 124.9 | 2.5 | |
| Cu | 63 | 1 | No Gas | 0.065 | 7.4 | 2254 | 3.2 | 2.5 | |
| Se | 82 | 1 | No Gas | -0.363 | -74.5 | 290 | 26.0 | 2 | |
| Zr | 90 | 1 | No Gas | 0.117 | 10.7 | 4397 | 7.4 | 2.5 | |
| Zr | 90 | 2 | He | 0.088 | 8.3 | 2440 | 2.9 | 2.5 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 760215 | 0.23 | 789601 | 96.28 | 70 | 120 | |
| Ge | 72 | 2 | He | 862039 | 0.47 | 909952 | 94.73 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2999186 | 0.18 | 3202767 | 93.64 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 4187817 | 0.80 | 4425209 | 94.64 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4653983 | 1.00 | 4898592 | 95.01 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | MBLK-214140 |
| Data File Name | 181SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T19:45:30-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW B 214140 |
| ISTD Ref FileName | 165CALB.d |
| Sample QC Pass/Fail | Pass |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | -0.097 | -0.097 | -20.17 | 45445 | 0.00 | 2000 | |
| Be | 9 | 1 | No Gas | 0.004 | 0.004 | 208.24 | 55 | 0.01 | 2000 | |
| V | 51 | 2 | He | -0.610 | -0.610 | -1.43 | 2791 | -0.02 | 2000 | |
| Cr | 52 | 2 | He | -0.276 | -0.276 | -15.92 | 6051 | 0.00 | 2000 | |
| Fe | 56 | 2 | He | 0.724 | 0.724 | 5.49 | 18296 | 0.00 | 200000 | |
| Se | 78 | 2 | He | 0.123 | 0.123 | 83.79 | 114 | 0.11 | 2000 | |
| As | 75 | 2 | He | -0.080 | -0.080 | -5.14 | 223 | -0.04 | 2000 | |
| Ca | 44 | 2 | He | 7.467 | 7.467 | 31.60 | 813 | 0.92 | 200000 | |
| Na | 23 | 2 | He | -13.173 | -13.173 | -9.39 | 67886 | -0.02 | 200000 | |
| Mg | 24 | 2 | He | -0.514 | -0.514 | -32.97 | 1530 | -0.03 | 200000 | |
| K | 39 | 2 | He | -3.958 | -3.958 | -26.55 | 86933 | 0.00 | 200000 | |
| Mn | 55 | 2 | He | 0.068 | 0.068 | 18.78 | 933 | 0.01 | 2000 | |
| Co | 59 | 2 | He | 0.005 | 0.005 | 50.59 | 187 | 0.00 | 2000 | |
| Ni | 60 | 2 | He | 0.304 | 0.304 | 4.51 | 1147 | 0.03 | 2000 | |
| Cu | 63 | 2 | He | 0.048 | 0.048 | 9.39 | 1020 | 0.00 | 2000 | |
| Zn | 66 | 2 | He | 1.406 | 1.406 | 4.73 | 2947 | 0.05 | 2000 | |
| Al | 27 | 2 | He | -0.447 | -0.447 | -52.84 | 767 | -0.06 | 2000 | |
| B | 11 | 1 | No Gas | 0.989 | 0.989 | 8.81 | 9285 | 0.01 | 2000 | |
| Al | 27 | 1 | No Gas | -0.675 | -0.675 | -2.20 | 23710 | 0.00 | 2000 | |
| Si | 28 | 1 | No Gas | -0.455 | -0.455 | -15.92 | 170273 | 0.00 | 2000 | |
| Ag | 107 | 1 | No Gas | 0.004 | 0.004 | 77.46 | 387 | 0.00 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.001 | 0.001 | 407.62 | -4 | -0.01 | 2000 | |
| Sr | 88 | 1 | No Gas | -0.020 | -0.020 | -21.97 | 997 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.011 | 0.011 | 34.44 | 220 | 0.00 | 2000 | |
| Sn | 118 | 1 | No Gas | -0.163 | -0.163 | -12.27 | 4651 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.014 | 0.014 | 57.61 | 893 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | -0.013 | -0.013 | -16.50 | 490 | 0.00 | 2000 | |
| Tl | 205 | 1 | No Gas | 0.007 | 0.007 | 15.21 | 1080 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 0.008 | 0.008 | 57.34 | 497 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.006 | 0.006 | 26.49 | 2687 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.000 | 0.000 | 301.34 | 1440 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 5.333 | 5.333 | 120.66 | 57 | 9.41 | 200000 | |
| Sb | 121 | 2 | He | 0.014 | 0.014 | 16.29 | 383 | 0.00 | 2000 | |
| Ti | 47 | 2 | He | -0.051 | -0.051 | -48.22 | 7 | -0.77 | 2000 | |
| Cu | 63 | 1 | No Gas | 0.043 | 0.043 | 11.59 | 1927 | 0.00 | 2000 | |
| Ca | 44 | 1 | No Gas | 4.032 | 4.032 | 27.43 | 16073 | 0.03 | 200000 | |
| Zn | 66 | 1 | No Gas | 1.351 | 1.351 | 6.96 | 8113 | 0.02 | 2000 | |
| Se | 82 | 1 | No Gas | -0.487 | -0.487 | -38.11 | 257 | -0.19 | 2000 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 754312 | 0.38 | 789601 | 95.53 | 70 | 120 | |
| Ge | 72 | 2 | He | 859261 | 1.49 | 909952 | 94.43 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 3016071 | 0.27 | 3202767 | 94.17 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 4197912 | 0.56 | 4425209 | 94.86 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4637823 | 0.53 | 4898592 | 94.68 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LCS-214140 |
| Data File Name | 182SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T19:47:54-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW B 214140 |
| ISTD Ref FileName | 165CALB.d |
| Sample QC Pass/Fail | Pass |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 94.684 | 94.684 | 1.06 | 902583 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 46.556 | 46.556 | 1.07 | 119824 | 0.04 | 2000 | |
| V | 51 | 2 | He | 47.016 | 47.016 | 1.94 | 308886 | 0.02 | 2000 | |
| Cr | 52 | 2 | He | 47.446 | 47.446 | 1.76 | 358284 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 4866.067 | 4866.067 | 2.46 | 33999599 | 0.01 | 200000 | |
| Se | 78 | 2 | He | 48.195 | 48.195 | 1.95 | 5132 | 0.94 | 2000 | |
| As | 75 | 2 | He | 47.767 | 47.767 | 2.29 | 55999 | 0.09 | 2000 | |
| Ca | 44 | 2 | He | 4991.233 | 4991.233 | 1.30 | 199010 | 2.51 | 200000 | |
| Na | 23 | 2 | He | 4860.757 | 4860.757 | 1.05 | 5064122 | 0.10 | 200000 | |
| Mg | 24 | 2 | He | 4929.892 | 4929.892 | 1.61 | 3118622 | 0.16 | 200000 | |
| K | 39 | 2 | He | 4876.085 | 4876.085 | 1.64 | 3813502 | 0.13 | 200000 | |
| Mn | 55 | 2 | He | 48.269 | 48.269 | 2.10 | 274293 | 0.02 | 2000 | |
| Co | 59 | 2 | He | 47.582 | 47.582 | 1.82 | 550218 | 0.01 | 2000 | |
| Ni | 60 | 2 | He | 48.131 | 48.131 | 2.05 | 141227 | 0.03 | 2000 | |
| Cu | 63 | 2 | He | 47.903 | 47.903 | 2.68 | 385662 | 0.01 | 2000 | |
| Zn | 66 | 2 | He | 47.912 | 47.912 | 1.12 | 72173 | 0.07 | 2000 | |
| Al | 27 | 2 | He | 105.575 | 105.575 | 2.39 | 42655 | 0.25 | 2000 | |
| B | 11 | 1 | No Gas | 457.262 | 457.262 | 1.64 | 743611 | 0.06 | 2000 | |
| Al | 27 | 1 | No Gas | 101.429 | 101.429 | 1.69 | 1437073 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 546.733 | 546.733 | 1.27 | 3950733 | 0.01 | 2000 | |
| Ag | 107 | 1 | No Gas | 47.907 | 47.907 | 0.97 | 1128371 | 0.00 | 2000 | |
| Cd | 111 | 1 | No Gas | 46.925 | 46.925 | 0.96 | 221633 | 0.02 | 2000 | |
| Sr | 88 | 1 | No Gas | 71.097 | 71.097 | 1.85 | 3166528 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 46.249 | 46.249 | 1.28 | 408777 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | 69.412 | 69.412 | 1.27 | 1118268 | 0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | 46.350 | 46.350 | 0.12 | 1021527 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 46.540 | 46.540 | 1.68 | 390431 | 0.01 | 2000 | |
| Tl | 205 | 1 | No Gas | 42.026 | 42.026 | 2.36 | 2450956 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 41.835 | 41.835 | 1.43 | 1032843 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | 45.894 | 45.894 | 1.35 | 3888845 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 179.525 | 179.525 | 1.44 | 16963938 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 4954.269 | 4954.269 | 5.85 | 11618 | 42.64 | 200000 | |
| Sb | 121 | 2 | He | 49.597 | 49.597 | 1.76 | 451392 | 0.01 | 2000 | |
| Ti | 47 | 2 | He | 122.923 | 122.923 | 2.12 | 28403 | 0.43 | 2000 | |
| Cu | 63 | 1 | No Gas | 48.183 | 48.183 | 1.72 | 702358 | 0.01 | 2000 | |
| Ca | 44 | 1 | No Gas | 4744.915 | 4744.915 | 1.73 | 2758575 | 0.17 | 200000 | |
| Zn | 66 | 1 | No Gas | 47.090 | 47.090 | 0.73 | 193424 | 0.02 | 2000 | |
| Se | 82 | 1 | No Gas | 44.653 | 44.653 | 3.32 | 12419 | 0.36 | 2000 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 700363 | 0.85 | 789601 | 88.70 | 70 | 120 | |
| Ge | 72 | 2 | He | 842965 | 0.50 | 909952 | 92.64 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2905628 | 0.69 | 3202767 | 90.72 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 4031877 | 0.70 | 4425209 | 91.11 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4533675 | 0.29 | 4898592 | 92.55 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS24061196-10 |
| Data File Name | 183SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T19:50:18-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW B 214140 |
| ISTD Ref FileName | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 21.009 | 21.009 | 2.38 | 244768 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.025 | 0.025 | 10.03 | 112 | 0.02 | 2000 | |
| V | 51 | 2 | He | -0.436 | -0.436 | -5.21 | 3792 | -0.01 | 2000 | |
| Cr | 52 | 2 | He | 0.710 | 0.710 | 2.26 | 12990 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 31813.571 | 31813.571 | 0.98 | 218376137 | 0.01 | 200000 | |
| Se | 78 | 2 | He | 0.235 | 0.235 | 30.98 | 121 | 0.19 | 2000 | |
| As | 75 | 2 | He | 0.633 | 0.633 | 10.78 | 1032 | 0.06 | 2000 | |
| Ca | 44 | 2 | He | 23668.899 | 23668.899 | 2.28 | 925612 | 2.56 | 200000 | |
| Na | 23 | 2 | He | 138349.435 | 138349.435 | 1.39 | 139485935 | 0.10 | 200000 | |
| Mg | 24 | 2 | He | 8035.348 | 8035.348 | 1.47 | 4994280 | 0.16 | 200000 | |
| K | 39 | 2 | He | 2621.879 | 2621.879 | 2.07 | 2055288 | 0.13 | 200000 | |
| Mn | 55 | 2 | He | 508.628 | 508.628 | 1.45 | 2835519 | 0.02 | 2000 | |
| Co | 59 | 2 | He | 1.239 | 1.239 | 3.69 | 14204 | 0.01 | 2000 | |
| Ni | 60 | 2 | He | 2.044 | 2.044 | 5.01 | 6115 | 0.03 | 2000 | |
| Cu | 63 | 2 | He | 0.738 | 0.738 | 4.96 | 6438 | 0.01 | 2000 | |
| Zn | 66 | 2 | He | 15.080 | 15.080 | 2.15 | 22859 | 0.07 | 2000 | |
| Al | 27 | 2 | He | 13.212 | 13.212 | 10.80 | 6045 | 0.22 | 2000 | |
| B | 11 | 1 | No Gas | 39.092 | 39.092 | 4.12 | 73281 | 0.05 | 2000 | |
| Al | 27 | 1 | No Gas | 11.729 | 11.729 | 2.16 | 189493 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 13157.819 | 13157.819 | 2.26 | 88803525 | 0.01 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | 0.019 | 0.019 | 25.94 | 707 | 0.00 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.134 | 0.134 | 22.91 | 609 | 0.02 | 2000 | |
| Sr | 88 | 1 | No Gas | 328.664 | 328.664 | 1.48 | 14232549 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.087 | 0.087 | 11.74 | 860 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.131 | 0.131 | 17.77 | 8916 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.127 | 0.127 | 7.33 | 3257 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 641.494 | 641.494 | 1.08 | 5227826 | 0.01 | 2000 | |
| Tl | 205 | 1 | No Gas | 0.044 | 0.044 | 35.71 | 3040 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 0.044 | 0.044 | 28.95 | 1320 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.162 | 0.162 | 1.44 | 15211 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.016 | 0.016 | 26.11 | 2774 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 23742.571 | 23742.571 | 0.75 | 54553 | 43.52 | 200000 | |
| Sb | 121 | 2 | He | 0.125 | 0.125 | 7.40 | 1360 | 0.01 | 2000 | |
| Ti | 47 | 2 | He | 0.919 | 0.919 | 43.16 | 227 | 0.41 | 2000 | |
| Cu | 63 | 1 | No Gas | 2.007 | 2.007 | 1.64 | 29639 | 0.01 | 2000 | |
| Ca | 44 | 1 | No Gas | 22526.286 | 22526.286 | 1.69 | 12701260 | 0.18 | 200000 | |
| Zn | 66 | 1 | No Gas | 14.864 | 14.864 | 2.15 | 60988 | 0.02 | 2000 | |
| Se | 82 | 1 | No Gas | -0.264 | -0.264 | -151.93 | 300 | -0.09 | 2000 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 733382 | 1.18 | 789601 | 92.88 | 70 | 120 | |
| Ge | 72 | 2 | He | 828378 | 0.49 | 909952 | 91.04 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2828962 | 1.05 | 3202767 | 88.33 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3921867 | 0.40 | 4425209 | 88.63 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4342624 | 0.72 | 4898592 | 88.65 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS24061196-10SD |
| Data File Name | 184SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T19:52:46-05:00 |
| Sample Type | Sample |
| Dilution | 5 |
| Comment | TW B 214140 |
| ISTD Ref FileName | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 4.725 | 23.625 | 1.68 | 90512 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.016 | 0.079 | 27.77 | 87 | 0.02 | 2000 | |
| V | 51 | 2 | He | -0.665 | -3.327 | -2.30 | 2396 | -0.03 | 2000 | |
| Cr | 52 | 2 | He | -0.172 | -0.860 | -19.14 | 6742 | 0.00 | 2000 | |
| Fe | 56 | 2 | He | 6357.288 | 31786.439 | 0.53 | 44664901 | 0.01 | 200000 | |
| Se | 78 | 2 | He | 0.043 | 0.216 | 520.97 | 104 | 0.04 | 2000 | |
| As | 75 | 2 | He | 0.082 | 0.412 | 32.22 | 411 | 0.02 | 2000 | |
| Ca | 44 | 2 | He | 4634.903 | 23174.515 | 0.95 | 185879 | 2.49 | 200000 | |
| Na | 23 | 2 | He | 27544.842 | 137724.210 | 1.10 | 28482210 | 0.10 | 200000 | |
| Mg | 24 | 2 | He | 1591.755 | 7958.777 | 0.43 | 1013846 | 0.16 | 200000 | |
| K | 39 | 2 | He | 502.679 | 2513.394 | 1.68 | 474982 | 0.11 | 200000 | |
| Mn | 55 | 2 | He | 100.165 | 500.826 | 0.72 | 571825 | 0.02 | 2000 | |
| Co | 59 | 2 | He | 0.266 | 1.330 | 6.17 | 3224 | 0.01 | 2000 | |
| Ni | 60 | 2 | He | 0.425 | 2.124 | 11.98 | 1487 | 0.03 | 2000 | |
| Cu | 63 | 2 | He | 0.139 | 0.696 | 9.73 | 1747 | 0.01 | 2000 | |
| Zn | 66 | 2 | He | 2.830 | 14.152 | 4.23 | 5041 | 0.06 | 2000 | |
| Al | 27 | 2 | He | 1.697 | 8.484 | 36.29 | 1610 | 0.11 | 2000 | |
| B | 11 | 1 | No Gas | 8.453 | 42.263 | 4.92 | 21737 | 0.04 | 2000 | |
| Al | 27 | 1 | No Gas | 2.547 | 12.737 | 31.34 | 68179 | 0.00 | 2000 | |
| Si | 28 | 1 | No Gas | 2680.301 | 13401.506 | 1.86 | 18911332 | 0.01 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | 0.003 | 0.015 | 94.18 | 353 | 0.00 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.021 | 0.103 | 15.95 | 92 | 0.02 | 2000 | |
| Sr | 88 | 1 | No Gas | 65.409 | 327.045 | 2.60 | 2968936 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.021 | 0.105 | 48.60 | 307 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | -0.214 | -1.072 | -3.93 | 3707 | -0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.020 | 0.099 | 15.59 | 1003 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 124.160 | 620.798 | 1.84 | 1060484 | 0.01 | 2000 | |
| Tl | 205 | 1 | No Gas | 0.006 | 0.029 | 26.10 | 997 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 0.006 | 0.032 | 37.90 | 447 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.032 | 0.160 | 2.46 | 4940 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.001 | 0.007 | 125.79 | 1523 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 4645.041 | 23225.204 | 5.30 | 10954 | 42.40 | 200000 | |
| Sb | 121 | 2 | He | 0.026 | 0.132 | 33.45 | 493 | 0.01 | 2000 | |
| Ti | 47 | 2 | He | 0.121 | 0.607 | 89.04 | 47 | 0.26 | 2000 | |
| Cu | 63 | 1 | No Gas | 0.443 | 2.217 | 4.49 | 7762 | 0.01 | 2000 | |
| Ca | 44 | 1 | No Gas | 4544.293 | 22721.463 | 1.78 | 2670104 | 0.17 | 200000 | |
| Zn | 66 | 1 | No Gas | 2.958 | 14.790 | 3.64 | 14485 | 0.02 | 2000 | |
| Se | 82 | 1 | No Gas | -0.413 | -2.063 | -40.08 | 270 | -0.15 | 2000 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 737396 | 0.94 | 789601 | 93.39 | 70 | 120 | |
| Ge | 72 | 2 | He | 847699 | 0.64 | 909952 | 93.16 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2935772 | 0.63 | 3202767 | 91.66 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 4108370 | 0.28 | 4425209 | 92.84 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4611680 | 0.24 | 4898592 | 94.14 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS24061196-10MS |
| Data File Name | 185SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T19:55:10-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW B 214140 |
| ISTD Ref FileName | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 102.485 | 102.485 | 1.03 | 997763 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 41.848 | 41.848 | 1.66 | 110405 | 0.04 | 2000 | |
| V | 51 | 2 | He | 44.500 | 44.500 | 3.90 | 288238 | 0.02 | 2000 | |
| Cr | 52 | 2 | He | 44.540 | 44.540 | 3.60 | 331672 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 34786.744 | 34786.744 | 4.02 | 239258583 | 0.01 | 200000 | |
| Se | 78 | 2 | He | 45.538 | 45.538 | 4.20 | 4780 | 0.95 | 2000 | |
| As | 75 | 2 | He | 46.479 | 46.479 | 2.82 | 53668 | 0.09 | 2000 | |
| Ca | 44 | 2 | He | 27420.801 | 27420.801 | 3.94 | 1074366 | 2.55 | 200000 | |
| Na | 23 | 2 | He | 136234.780 | 136234.780 | 3.58 | 137630455 | 0.10 | 200000 | |
| Mg | 24 | 2 | He | 12182.384 | 12182.384 | 3.69 | 7585638 | 0.16 | 200000 | |
| K | 39 | 2 | He | 7073.539 | 7073.539 | 2.98 | 5408488 | 0.13 | 200000 | |
| Mn | 55 | 2 | He | 527.010 | 527.010 | 3.89 | 2943760 | 0.02 | 2000 | |
| Co | 59 | 2 | He | 45.181 | 45.181 | 3.95 | 514480 | 0.01 | 2000 | |
| Ni | 60 | 2 | He | 46.090 | 46.090 | 2.95 | 133202 | 0.03 | 2000 | |
| Cu | 63 | 2 | He | 46.536 | 46.536 | 3.24 | 368973 | 0.01 | 2000 | |
| Zn | 66 | 2 | He | 57.819 | 57.819 | 2.99 | 85609 | 0.07 | 2000 | |
| Al | 27 | 2 | He | 104.693 | 104.693 | 3.30 | 41659 | 0.25 | 2000 | |
| B | 11 | 1 | No Gas | 447.556 | 447.556 | 0.90 | 746265 | 0.06 | 2000 | |
| Al | 27 | 1 | No Gas | 103.583 | 103.583 | 1.32 | 1430609 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 13162.106 | 13162.106 | 1.65 | 88995212 | 0.01 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | 44.961 | 44.961 | 0.56 | 1027115 | 0.00 | 2000 | |
| Cd | 111 | 1 | No Gas | 45.570 | 45.570 | 1.17 | 208747 | 0.02 | 2000 | |
| Sr | 88 | 1 | No Gas | 383.658 | 383.658 | 1.26 | 16565128 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 45.609 | 45.609 | 0.65 | 390994 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | 62.539 | 62.539 | 1.77 | 977871 | 0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | 44.726 | 44.726 | 0.33 | 961352 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 668.400 | 668.400 | 1.32 | 5431112 | 0.01 | 2000 | |
| Tl | 205 | 1 | No Gas | 40.210 | 40.210 | 1.31 | 2220546 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 40.031 | 40.031 | 0.90 | 935833 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | 44.929 | 44.929 | 0.25 | 3604862 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 175.525 | 175.525 | 0.88 | 15704996 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 27511.700 | 27511.700 | 4.06 | 63331 | 43.44 | 200000 | |
| Sb | 121 | 2 | He | 46.750 | 46.750 | 4.17 | 418971 | 0.01 | 2000 | |
| Ti | 47 | 2 | He | 114.474 | 114.474 | 2.35 | 26051 | 0.44 | 2000 | |
| Cu | 63 | 1 | No Gas | 49.066 | 49.066 | 0.76 | 697485 | 0.01 | 2000 | |
| Ca | 44 | 1 | No Gas | 26678.820 | 26678.820 | 1.12 | 15067230 | 0.18 | 200000 | |
| Zn | 66 | 1 | No Gas | 57.581 | 57.581 | 0.80 | 230147 | 0.03 | 2000 | |
| Se | 82 | 1 | No Gas | 45.576 | 45.576 | 3.06 | 12352 | 0.37 | 2000 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 717945 | 0.63 | 789601 | 90.93 | 70 | 120 | |
| Ge | 72 | 2 | He | 830327 | 1.63 | 909952 | 91.25 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2833700 | 0.23 | 3202767 | 88.48 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3910438 | 0.51 | 4425209 | 88.37 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4292816 | 0.25 | 4898592 | 87.63 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS24061196-10MSD |
| Data File Name | 186SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T19:57:39-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW B 214140 |
| ISTD Ref FileName | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 104.922 | 104.922 | 1.39 | 1016053 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 42.833 | 42.833 | 1.61 | 112519 | 0.04 | 2000 | |
| V | 51 | 2 | He | 45.845 | 45.845 | 2.23 | 291556 | 0.02 | 2000 | |
| Cr | 52 | 2 | He | 46.509 | 46.509 | 2.46 | 339935 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 35894.139 | 35894.139 | 2.69 | 242559503 | 0.01 | 200000 | |
| Se | 78 | 2 | He | 47.138 | 47.138 | 1.32 | 4858 | 0.97 | 2000 | |
| As | 75 | 2 | He | 47.323 | 47.323 | 1.60 | 53675 | 0.09 | 2000 | |
| Ca | 44 | 2 | He | 28261.438 | 28261.438 | 2.26 | 1087906 | 2.60 | 200000 | |
| Na | 23 | 2 | He | 141910.805 | 141910.805 | 1.81 | 140849638 | 0.10 | 200000 | |
| Mg | 24 | 2 | He | 12661.257 | 12661.257 | 1.89 | 7746148 | 0.16 | 200000 | |
| K | 39 | 2 | He | 7325.417 | 7325.417 | 1.87 | 5499652 | 0.13 | 200000 | |
| Mn | 55 | 2 | He | 543.432 | 543.432 | 2.75 | 2982397 | 0.02 | 2000 | |
| Co | 59 | 2 | He | 47.005 | 47.005 | 1.73 | 525876 | 0.01 | 2000 | |
| Ni | 60 | 2 | He | 48.184 | 48.184 | 1.92 | 136790 | 0.04 | 2000 | |
| Cu | 63 | 2 | He | 48.685 | 48.685 | 2.71 | 379216 | 0.01 | 2000 | |
| Zn | 66 | 2 | He | 58.955 | 58.955 | 2.30 | 85740 | 0.07 | 2000 | |
| Al | 27 | 2 | He | 109.601 | 109.601 | 3.84 | 42805 | 0.26 | 2000 | |
| B | 11 | 1 | No Gas | 458.181 | 458.181 | 1.24 | 760524 | 0.06 | 2000 | |
| Al | 27 | 1 | No Gas | 105.132 | 105.132 | 2.42 | 1460206 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 13254.590 | 13254.590 | 1.70 | 90152779 | 0.01 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | 44.931 | 44.931 | 2.03 | 1032382 | 0.00 | 2000 | |
| Cd | 111 | 1 | No Gas | 45.968 | 45.968 | 1.56 | 211796 | 0.02 | 2000 | |
| Sr | 88 | 1 | No Gas | 385.323 | 385.323 | 1.00 | 16733953 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 45.509 | 45.509 | 1.41 | 392394 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | 63.310 | 63.310 | 0.94 | 995635 | 0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | 45.324 | 45.324 | 0.96 | 980047 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 667.203 | 667.203 | 0.88 | 5452990 | 0.01 | 2000 | |
| Tl | 205 | 1 | No Gas | 40.490 | 40.490 | 1.39 | 2254732 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 40.557 | 40.557 | 0.48 | 956068 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | 44.905 | 44.905 | 0.57 | 3633365 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 177.894 | 177.894 | 0.26 | 16050785 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 28445.681 | 28445.681 | 2.58 | 64335 | 44.21 | 200000 | |
| Sb | 121 | 2 | He | 48.333 | 48.333 | 2.04 | 425591 | 0.01 | 2000 | |
| Ti | 47 | 2 | He | 119.839 | 119.839 | 1.15 | 26790 | 0.45 | 2000 | |
| Cu | 63 | 1 | No Gas | 50.098 | 50.098 | 0.93 | 716415 | 0.01 | 2000 | |
| Ca | 44 | 1 | No Gas | 26843.283 | 26843.283 | 2.02 | 15250217 | 0.18 | 200000 | |
| Zn | 66 | 1 | No Gas | 57.743 | 57.743 | 1.61 | 232167 | 0.02 | 2000 | |
| Se | 82 | 1 | No Gas | 46.199 | 46.199 | 5.57 | 12589 | 0.37 | 2000 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 714854 | 0.43 | 789601 | 90.53 | 70 | 120 | |
| Ge | 72 | 2 | He | 815511 | 0.49 | 909952 | 89.62 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2850808 | 0.65 | 3202767 | 89.01 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3933128 | 0.43 | 4425209 | 88.88 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4328907 | 0.81 | 4898592 | 88.37 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS24061196-10PDS |
| Data File Name | 187SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T20:00:07-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW B 214140 |
| ISTD Ref FileName | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 20.497 | 20.497 | 0.85 | 235793 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 84.278 | 84.278 | 1.60 | 223177 | 0.04 | 2000 | |
| V | 51 | 2 | He | 90.369 | 90.369 | 3.60 | 578251 | 0.02 | 2000 | |
| Cr | 52 | 2 | He | 89.899 | 89.899 | 3.31 | 661058 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 39560.668 | 39560.668 | 2.74 | 271939576 | 0.01 | 200000 | |
| Se | 78 | 2 | He | 92.381 | 92.381 | 1.76 | 9592 | 0.96 | 2000 | |
| As | 75 | 2 | He | 93.005 | 93.005 | 1.87 | 107005 | 0.09 | 2000 | |
| Ca | 44 | 2 | He | 31699.759 | 31699.759 | 3.14 | 1241211 | 2.55 | 200000 | |
| Na | 23 | 2 | He | 141888.757 | 141888.757 | 2.32 | 143250611 | 0.10 | 200000 | |
| Mg | 24 | 2 | He | 16898.671 | 16898.671 | 2.20 | 10516209 | 0.16 | 200000 | |
| K | 39 | 2 | He | 11801.979 | 11801.979 | 2.41 | 8960067 | 0.13 | 200000 | |
| Mn | 55 | 2 | He | 577.106 | 577.106 | 2.80 | 3221709 | 0.02 | 2000 | |
| Co | 59 | 2 | He | 91.916 | 91.916 | 2.76 | 1045882 | 0.01 | 2000 | |
| Ni | 60 | 2 | He | 92.262 | 92.262 | 2.57 | 266213 | 0.03 | 2000 | |
| Cu | 63 | 2 | He | 89.523 | 89.523 | 2.41 | 708799 | 0.01 | 2000 | |
| Zn | 66 | 2 | He | 101.750 | 101.750 | 2.41 | 149953 | 0.07 | 2000 | |
| Al | 27 | 2 | He | 102.888 | 102.888 | 2.90 | 40933 | 0.25 | 2000 | |
| B | 11 | 1 | No Gas | 38.848 | 38.848 | 2.31 | 71633 | 0.05 | 2000 | |
| Al | 27 | 1 | No Gas | 99.557 | 99.557 | 1.55 | 1394559 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 12632.915 | 12632.915 | 0.82 | 86556382 | 0.01 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | 92.551 | 92.551 | 0.57 | 2129809 | 0.00 | 2000 | |
| Cd | 111 | 1 | No Gas | 90.344 | 90.344 | 1.25 | 416959 | 0.02 | 2000 | |
| Sr | 88 | 1 | No Gas | 314.537 | 314.537 | 0.47 | 13682898 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 89.972 | 89.972 | 0.89 | 776949 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.022 | 0.022 | 34.70 | 7259 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | 87.380 | 87.380 | 0.31 | 1902496 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 701.716 | 701.716 | 0.76 | 5744485 | 0.01 | 2000 | |
| Tl | 205 | 1 | No Gas | 92.362 | 92.362 | 1.08 | 5129769 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 92.011 | 92.011 | 0.64 | 2163366 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | 89.669 | 89.669 | 0.79 | 7234906 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.047 | 0.047 | 5.49 | 5578 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 31353.453 | 31353.453 | 3.75 | 72130 | 43.47 | 200000 | |
| Sb | 121 | 2 | He | 91.800 | 91.800 | 2.68 | 821977 | 0.01 | 2000 | |
| Ti | 47 | 2 | He | 95.484 | 95.484 | 4.32 | 21714 | 0.44 | 2000 | |
| Cu | 63 | 1 | No Gas | 91.493 | 91.493 | 0.26 | 1316761 | 0.01 | 2000 | |
| Ca | 44 | 1 | No Gas | 30414.960 | 30414.960 | 0.31 | 17403071 | 0.17 | 200000 | |
| Zn | 66 | 1 | No Gas | 100.688 | 100.688 | 0.43 | 406058 | 0.02 | 2000 | |
| Se | 82 | 1 | No Gas | 88.005 | 88.005 | 2.91 | 23825 | 0.37 | 2000 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 720719 | 0.15 | 789601 | 91.28 | 70 | 120 | |
| Ge | 72 | 2 | He | 829608 | 0.90 | 909952 | 91.17 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2871226 | 0.90 | 3202767 | 89.65 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3939670 | 0.72 | 4425209 | 89.03 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4318216 | 0.54 | 4898592 | 88.15 | 70 | 120 | |

# Continuing Calibration Verification (CCV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCV |
| Data File Name | 189_CCV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T20:04:59-05:00 |
| Sample Type | CCV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Exp Value | %Rec | %Low | %High2 | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 97.299 | 1.873 | 961472 | 2.23 | 100 | 97.3 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 98.121 | 1.322 | 262071 | 1.70 | 100 | 98.1 | 90 | 110 | |
| V | 51 | 2 | He | 101.863 | 0.835 | 668474 | 0.96 | 100 | 101.9 | 90 | 110 | |
| Cr | 52 | 2 | He | 100.485 | 1.349 | 757850 | 1.47 | 100 | 100.5 | 90 | 110 | |
| Fe | 56 | 2 | He | 10036.940 | 1.467 | 70860492 | 1.57 | 10000 | 100.4 | 90 | 110 | |
| Se | 78 | 2 | He | 102.148 | 1.725 | 10880 | 1.83 | 100 | 102.1 | 90 | 110 | |
| As | 75 | 2 | He | 102.172 | 1.387 | 120689 | 1.52 | 100 | 102.2 | 90 | 110 | |
| Ca | 44 | 2 | He | 10145.376 | 0.779 | 408276 | 0.89 | 10000 | 101.5 | 90 | 110 | |
| Na | 23 | 2 | He | 9990.018 | 0.590 | 10432821 | 0.63 | 10000 | 99.9 | 90 | 110 | |
| Mg | 24 | 2 | He | 10075.223 | 0.656 | 6439209 | 0.73 | 10000 | 100.8 | 90 | 110 | |
| K | 39 | 2 | He | 10050.889 | 0.709 | 7849283 | 0.77 | 10000 | 100.5 | 90 | 110 | |
| Mn | 55 | 2 | He | 101.094 | 1.605 | 579998 | 1.72 | 100 | 101.1 | 90 | 110 | |
| Co | 59 | 2 | He | 102.543 | 1.014 | 1198210 | 1.11 | 100 | 102.5 | 90 | 110 | |
| Ni | 60 | 2 | He | 102.756 | 1.445 | 304449 | 1.57 | 100 | 102.8 | 90 | 110 | |
| Cu | 63 | 2 | He | 100.233 | 1.591 | 814850 | 1.65 | 100 | 100.2 | 90 | 110 | |
| Zn | 66 | 2 | He | 101.653 | 1.338 | 153847 | 1.47 | 100 | 101.7 | 90 | 110 | |
| Al | 27 | 2 | He | 100.291 | 1.792 | 40996 | 1.83 | 100 | 100.3 | 90 | 110 | |
| B | 11 | 1 | No Gas | 472.275 | 1.191 | 796974 | 1.54 | 500 | 94.5 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 100.410 | 2.136 | 1446667 | 1.64 | 100 | 100.4 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 500.870 | 2.628 | 3693801 | 2.08 | 5000 | 10.0 | 90 | 110 | CCV Main CR1-2 Failed |
| Ag | 107 | 1 | No Gas | 102.082 | 2.082 | 2429874 | 2.31 | 100 | 102.1 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 102.094 | 2.192 | 487389 | 2.48 | 100 | 102.1 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 101.283 | 1.954 | 4558660 | 2.09 | 100 | 101.3 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 99.794 | 1.749 | 891382 | 1.95 | 100 | 99.8 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 101.942 | 2.073 | 1656673 | 2.29 | 100 | 101.9 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 100.753 | 2.623 | 2256803 | 2.17 | 100 | 100.8 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 99.787 | 1.883 | 845469 | 1.98 | 100 | 99.8 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 100.082 | 2.148 | 5862908 | 2.12 | 100 | 100.1 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 100.873 | 2.441 | 2501508 | 2.41 | 100 | 100.9 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 101.025 | 2.048 | 8597270 | 2.00 | 100 | 101.0 | 90 | 110 | |
| U | 238 | 1 | No Gas | 100.881 | 1.755 | 9577193 | 1.69 | 100 | 100.9 | 90 | 110 | |
| Ca | 43 | 2 | He | 10094.623 | 0.565 | 23877 | 0.45 | 10000 | 100.9 | 90 | 110 | |
| Sb | 121 | 2 | He | 103.949 | 0.238 | 955837 | 0.30 | 100 | 103.9 | 90 | 110 | |
| Ti | 47 | 2 | He | 102.854 | 3.289 | 24021 | 3.30 | 100 | 102.9 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 102.504 | 2.491 | 1517615 | 2.06 | 100 | 102.5 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 98.706 | 4.181 | 27438 | 3.64 | 100 | 98.7 | 90 | 110 | |
| Zr | 90 | 1 | No Gas | 90.730 | 1.554 | 2536140 | 1.49 | 100 | 90.7 | 90 | 110 | |
| Zr | 90 | 2 | He | 93.838 | 1.029 | 1024879 | 1.16 | 100 | 93.8 | 90 | 110 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 726926 | 0.61 | 789601 | 92.06 | 70 | 120 | |
| Ge | 72 | 2 | He | 851887 | 0.14 | 909952 | 93.62 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2954179 | 0.50 | 3202767 | 92.24 | 70 | 120 | |
| In | 115 | 1 | No Gas | 4074934 | 0.59 | 4425209 | 92.08 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4554611 | 0.12 | 4898592 | 92.98 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCB |
| Data File Name | 190_CCB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T20:07:23-05:00 |
| Sample Type | CCB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 0.352 | 6.4 | 49531 | 0.6 | 0.5 | |
| Be | 9 | 1 | No Gas | 0.022 | 46.5 | 105 | 26.5 | 0.5 | |
| V | 51 | 2 | He | -0.681 | -0.8 | 2351 | 2.0 | 2.5 | |
| Cr | 52 | 2 | He | -0.280 | -10.9 | 6088 | 3.9 | 2.5 | |
| Fe | 56 | 2 | He | 1.345 | 9.1 | 22976 | 3.6 | 100 | |
| Se | 78 | 2 | He | 0.230 | 74.6 | 127 | 14.2 | 2 | |
| As | 75 | 2 | He | -0.034 | -65.5 | 281 | 10.2 | 2.5 | |
| Ca | 44 | 2 | He | 15.412 | 22.3 | 1147 | 11.8 | 100 | |
| Na | 23 | 2 | He | 25.117 | 8.1 | 109113 | 1.4 | 100 | |
| Mg | 24 | 2 | He | 0.751 | 39.4 | 2370 | 7.7 | 100 | |
| K | 39 | 2 | He | -3.695 | -39.7 | 88117 | 1.4 | 100 | |
| Mn | 55 | 2 | He | 0.118 | 14.9 | 1237 | 8.6 | 2.5 | |
| Co | 59 | 2 | He | 0.006 | 92.1 | 210 | 33.3 | 2.5 | |
| Ni | 60 | 2 | He | 0.204 | 8.7 | 857 | 5.8 | 2.5 | |
| Cu | 63 | 2 | He | 0.070 | 18.1 | 1213 | 8.3 | 2 | |
| Zn | 66 | 2 | He | 1.217 | 1.3 | 2690 | 1.5 | 2.5 | |
| Al | 27 | 2 | He | -0.102 | -275.9 | 917 | 12.6 | 5 | |
| B | 11 | 1 | No Gas | 3.724 | 11.3 | 13945 | 5.4 | 0.5 | CCB Main CR1 Failed |
| Al | 27 | 1 | No Gas | -0.033 | -529.4 | 33176 | 7.6 | 5 | |
| Si | 28 | 1 | No Gas | 13.998 | 0.8 | 276044 | 0.3 | 10 | CCB Main CR1 Failed |
| Ag | 107 | 1 | No Gas | 0.006 | 39.7 | 437 | 13.0 | 2.5 | |
| Cd | 111 | 1 | No Gas | 0.001 | 216.1 | -4 | -143.8 | 1 | |
| Sr | 88 | 1 | No Gas | -0.010 | -14.9 | 1500 | 4.7 | 2.5 | |
| Mo | 95 | 1 | No Gas | 0.069 | 22.1 | 763 | 18.6 | 2.5 | |
| Sn | 118 | 1 | No Gas | -0.098 | -17.1 | 5805 | 4.7 | 5 | |
| Sb | 121 | 1 | No Gas | 0.053 | 13.3 | 1800 | 9.3 | 2.5 | |
| Ba | 137 | 1 | No Gas | -0.022 | -51.2 | 410 | 24.8 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.058 | 56.9 | 4188 | 47.9 | 1 | |
| Tl | 203 | 1 | No Gas | 0.058 | 52.3 | 1797 | 43.6 | 1 | |
| Pb | 208 | 1 | No Gas | 0.009 | 12.4 | 3094 | 3.2 | 2.5 | |
| U | 238 | 1 | No Gas | 0.004 | 70.1 | 1834 | 15.1 | 2.5 | |
| Ca | 43 | 2 | He | 3.681 | 68.7 | 53 | 10.8 | 100 | |
| Sb | 121 | 2 | He | 0.051 | 8.6 | 737 | 5.7 | 2.5 | |
| Ti | 47 | 2 | He | -0.024 | -101.3 | 13 | 43.3 | 2.5 | |
| Cu | 63 | 1 | No Gas | 0.080 | 10.1 | 2500 | 4.8 | 2.5 | |
| Se | 82 | 1 | No Gas | -0.351 | -62.6 | 297 | 20.3 | 2 | |
| Zr | 90 | 1 | No Gas | 0.116 | 26.9 | 4441 | 20.4 | 2.5 | |
| Zr | 90 | 2 | He | 0.080 | 15.3 | 2364 | 5.6 | 2.5 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 749747 | 0.42 | 789601 | 94.95 | 70 | 120 | |
| Ge | 72 | 2 | He | 868857 | 0.60 | 909952 | 95.48 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 3037592 | 0.56 | 3202767 | 94.84 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 4252361 | 0.15 | 4425209 | 96.09 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4756931 | 0.27 | 4898592 | 97.11 | 70 | 120 | |

# Continuing Calibration Verification (CCV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCV |
| Data File Name | 196_CCV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T20:22:09-05:00 |
| Sample Type | CCV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Exp Value | %Rec | %Low | %High2 | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 97.762 | 1.538 | 1026767 | 2.14 | 100 | 97.8 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 96.896 | 1.759 | 275136 | 2.40 | 100 | 96.9 | 90 | 110 | |
| V | 51 | 2 | He | 102.153 | 1.119 | 671588 | 1.27 | 100 | 102.2 | 90 | 110 | |
| Cr | 52 | 2 | He | 101.730 | 0.403 | 768537 | 0.68 | 100 | 101.7 | 90 | 110 | |
| Fe | 56 | 2 | He | 10251.800 | 1.213 | 72510206 | 1.49 | 10000 | 102.5 | 90 | 110 | |
| Se | 78 | 2 | He | 104.535 | 0.715 | 11153 | 1.00 | 100 | 104.5 | 90 | 110 | |
| As | 75 | 2 | He | 103.704 | 1.700 | 122715 | 1.71 | 100 | 103.7 | 90 | 110 | |
| Ca | 44 | 2 | He | 10378.361 | 1.442 | 418410 | 1.67 | 10000 | 103.8 | 90 | 110 | |
| Na | 23 | 2 | He | 10237.128 | 1.388 | 10708650 | 1.64 | 10000 | 102.4 | 90 | 110 | |
| Mg | 24 | 2 | He | 10202.055 | 1.342 | 6532318 | 1.64 | 10000 | 102.0 | 90 | 110 | |
| K | 39 | 2 | He | 10309.927 | 1.133 | 8064044 | 1.28 | 10000 | 103.1 | 90 | 110 | |
| Mn | 55 | 2 | He | 102.624 | 1.734 | 589842 | 1.85 | 100 | 102.6 | 90 | 110 | |
| Co | 59 | 2 | He | 104.175 | 1.049 | 1219529 | 1.33 | 100 | 104.2 | 90 | 110 | |
| Ni | 60 | 2 | He | 104.333 | 1.614 | 309676 | 1.59 | 100 | 104.3 | 90 | 110 | |
| Cu | 63 | 2 | He | 101.801 | 1.931 | 829090 | 1.86 | 100 | 101.8 | 90 | 110 | |
| Zn | 66 | 2 | He | 102.566 | 1.648 | 155507 | 1.84 | 100 | 102.6 | 90 | 110 | |
| Al | 27 | 2 | He | 102.671 | 1.064 | 42023 | 1.06 | 100 | 102.7 | 90 | 110 | |
| B | 11 | 1 | No Gas | 464.428 | 1.198 | 833307 | 1.73 | 500 | 92.9 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 102.834 | 2.142 | 1522911 | 2.74 | 100 | 102.8 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 514.714 | 2.049 | 3898902 | 2.38 | 5000 | 10.3 | 90 | 110 | CCV Main CR1-2 Failed |
| Ag | 107 | 1 | No Gas | 103.306 | 1.773 | 2500283 | 2.23 | 100 | 103.3 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 102.233 | 1.320 | 496266 | 2.26 | 100 | 102.2 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 103.732 | 1.896 | 4747094 | 2.03 | 100 | 103.7 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 100.413 | 1.317 | 912004 | 2.06 | 100 | 100.4 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 102.792 | 1.169 | 1698494 | 1.86 | 100 | 102.8 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 100.345 | 2.149 | 2311357 | 2.02 | 100 | 100.3 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 100.222 | 0.937 | 863414 | 1.54 | 100 | 100.2 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 101.030 | 1.365 | 5988579 | 2.05 | 100 | 101.0 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 100.950 | 1.237 | 2533100 | 2.01 | 100 | 101.0 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 102.134 | 1.194 | 8794567 | 1.90 | 100 | 102.1 | 90 | 110 | |
| U | 238 | 1 | No Gas | 101.859 | 0.821 | 9784507 | 1.65 | 100 | 101.9 | 90 | 110 | |
| Ca | 43 | 2 | He | 10049.615 | 1.270 | 23814 | 0.93 | 10000 | 100.5 | 90 | 110 | |
| Sb | 121 | 2 | He | 104.758 | 1.497 | 965061 | 1.79 | 100 | 104.8 | 90 | 110 | |
| Ti | 47 | 2 | He | 106.219 | 1.892 | 24853 | 2.25 | 100 | 106.2 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 104.771 | 1.196 | 1595180 | 1.60 | 100 | 104.8 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 101.675 | 1.602 | 29055 | 1.68 | 100 | 101.7 | 90 | 110 | |
| Zr | 90 | 1 | No Gas | 92.826 | 1.716 | 2638198 | 1.62 | 100 | 92.8 | 90 | 110 | |
| Zr | 90 | 2 | He | 95.782 | 1.612 | 1047994 | 1.74 | 100 | 95.8 | 90 | 110 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 772787 | 0.94 | 789601 | 97.87 | 70 | 120 | |
| Ge | 72 | 2 | He | 853445 | 0.36 | 909952 | 93.79 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 3037785 | 0.97 | 3202767 | 94.85 | 70 | 120 | |
| In | 115 | 1 | No Gas | 4143379 | 1.12 | 4425209 | 93.63 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4608329 | 0.96 | 4898592 | 94.07 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCB |
| Data File Name | 197_CCB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T20:24:33-05:00 |
| Sample Type | CCB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 0.473 | 8.9 | 52675 | 0.9 | 0.5 | |
| Be | 9 | 1 | No Gas | 0.015 | 47.7 | 88 | 22.9 | 0.5 | |
| V | 51 | 2 | He | -0.722 | -1.3 | 2120 | 3.0 | 2.5 | |
| Cr | 52 | 2 | He | -0.249 | -8.4 | 6442 | 2.8 | 2.5 | |
| Fe | 56 | 2 | He | 1.349 | 1.9 | 23427 | 0.5 | 100 | |
| Se | 78 | 2 | He | 0.129 | 2.4 | 118 | 0.0 | 2 | |
| As | 75 | 2 | He | -0.073 | -32.7 | 239 | 12.5 | 2.5 | |
| Ca | 44 | 2 | He | 15.372 | 24.7 | 1167 | 13.6 | 100 | |
| Na | 23 | 2 | He | 98.677 | 2.1 | 190332 | 1.3 | 100 | |
| Mg | 24 | 2 | He | 0.392 | 76.9 | 2177 | 9.5 | 100 | |
| K | 39 | 2 | He | -1.877 | -91.3 | 91213 | 1.8 | 100 | |
| Mn | 55 | 2 | He | 0.124 | 19.2 | 1297 | 11.0 | 2.5 | |
| Co | 59 | 2 | He | 0.002 | 230.4 | 157 | 30.2 | 2.5 | |
| Ni | 60 | 2 | He | 0.247 | 6.5 | 1007 | 4.7 | 2.5 | |
| Cu | 63 | 2 | He | 0.066 | 11.3 | 1207 | 5.3 | 2 | |
| Zn | 66 | 2 | He | 1.328 | 5.5 | 2914 | 3.7 | 2.5 | |
| Al | 27 | 2 | He | -0.191 | -91.0 | 897 | 7.8 | 5 | |
| B | 11 | 1 | No Gas | 3.047 | 20.2 | 13270 | 8.1 | 0.5 | CCB Main CR1 Failed |
| Al | 27 | 1 | No Gas | -0.113 | -26.1 | 32411 | 0.9 | 5 | |
| Si | 28 | 1 | No Gas | 14.180 | 4.0 | 280810 | 1.2 | 10 | CCB Main CR1 Failed |
| Ag | 107 | 1 | No Gas | 0.005 | 76.9 | 403 | 21.4 | 2.5 | |
| Cd | 111 | 1 | No Gas | 0.003 | 63.2 | 9 | 112.0 | 1 | |
| Sr | 88 | 1 | No Gas | -0.005 | -86.2 | 1743 | 10.6 | 2.5 | |
| Mo | 95 | 1 | No Gas | 0.053 | 19.4 | 610 | 15.6 | 2.5 | |
| Sn | 118 | 1 | No Gas | -0.039 | -297.3 | 6753 | 28.8 | 5 | |
| Sb | 121 | 1 | No Gas | 0.048 | 10.2 | 1700 | 6.1 | 2.5 | |
| Ba | 137 | 1 | No Gas | -0.026 | -35.9 | 377 | 21.5 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.057 | 51.5 | 4101 | 43.6 | 1 | |
| Tl | 203 | 1 | No Gas | 0.052 | 52.2 | 1640 | 43.3 | 1 | |
| Pb | 208 | 1 | No Gas | 0.006 | 43.0 | 2754 | 8.5 | 2.5 | |
| U | 238 | 1 | No Gas | 0.005 | 12.6 | 1927 | 3.5 | 2.5 | |
| Ca | 43 | 2 | He | 12.778 | 17.8 | 77 | 7.5 | 100 | |
| Sb | 121 | 2 | He | 0.040 | 22.8 | 643 | 13.2 | 2.5 | |
| Ti | 47 | 2 | He | -0.052 | -91.9 | 7 | 173.2 | 2.5 | |
| Cu | 63 | 1 | No Gas | 0.101 | 9.0 | 2854 | 4.7 | 2.5 | |
| Se | 82 | 1 | No Gas | -0.331 | -83.4 | 307 | 26.2 | 2 | |
| Zr | 90 | 1 | No Gas | 0.122 | 17.7 | 4604 | 13.6 | 2.5 | |
| Zr | 90 | 2 | He | 0.083 | 7.7 | 2447 | 3.1 | 2.5 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 778787 | 0.21 | 789601 | 98.63 | 70 | 120 | |
| Ge | 72 | 2 | He | 884979 | 0.29 | 909952 | 97.26 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 3075472 | 0.53 | 3202767 | 96.03 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 4227739 | 0.23 | 4425209 | 95.54 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4711105 | 0.42 | 4898592 | 96.17 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS24061196-01 |
| Data File Name | 198SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T20:26:58-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW B 214140 |
| ISTD Ref FileName | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 58.336 | 58.336 | 1.44 | 596498 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.019 | 0.019 | 21.50 | 95 | 0.02 | 2000 | |
| V | 51 | 2 | He | 2.263 | 2.263 | 2.34 | 19908 | 0.01 | 2000 | |
| Cr | 52 | 2 | He | 23.400 | 23.400 | 3.51 | 169653 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 170.148 | 170.148 | 3.47 | 1127584 | 0.02 | 200000 | |
| Se | 78 | 2 | He | 0.611 | 0.611 | 59.45 | 153 | 0.40 | 2000 | |
| As | 75 | 2 | He | 1.433 | 1.433 | 3.64 | 1861 | 0.08 | 2000 | |
| Ca | 44 | 2 | He | 336473.429 | 336473.429 | 3.80 | 12560957 | 2.68 | 200000 | >LDR |
| Na | 23 | 2 | He | 659322.796 | 659322.796 | 3.25 | 634633697 | 0.10 | 200000 | >LDR |
| Mg | 24 | 2 | He | 88554.450 | 88554.450 | 2.98 | 52552253 | 0.17 | 200000 | |
| K | 39 | 2 | He | 5984.108 | 5984.108 | 3.08 | 4374032 | 0.14 | 200000 | |
| Mn | 55 | 2 | He | 50.785 | 50.785 | 2.71 | 270877 | 0.02 | 2000 | |
| Co | 59 | 2 | He | 1.501 | 1.501 | 5.53 | 16413 | 0.01 | 2000 | |
| Ni | 60 | 2 | He | 2.254 | 2.254 | 2.38 | 6418 | 0.04 | 2000 | |
| Cu | 63 | 2 | He | 0.488 | 0.488 | 5.93 | 4264 | 0.01 | 2000 | |
| Zn | 66 | 2 | He | 5.098 | 5.098 | 7.74 | 7876 | 0.06 | 2000 | |
| Al | 27 | 2 | He | 75.925 | 75.925 | 3.57 | 29037 | 0.26 | 2000 | |
| B | 11 | 1 | No Gas | 28.184 | 28.184 | 0.72 | 54624 | 0.05 | 2000 | |
| Al | 27 | 1 | No Gas | 73.518 | 73.518 | 1.34 | 1012231 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 21587.583 | 21587.583 | 0.79 | 144111291 | 0.01 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | 0.029 | 0.029 | 21.04 | 897 | 0.00 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.156 | 0.156 | 4.80 | 675 | 0.02 | 2000 | |
| Sr | 88 | 1 | No Gas | 6140.375 | 6140.375 | 0.75 | 253387576 | 0.00 | 2000 | >LDR |
| Mo | 95 | 1 | No Gas | 1.407 | 1.407 | 3.20 | 11635 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.143 | 0.143 | 13.83 | 8676 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.138 | 0.138 | 6.30 | 3471 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 2479.190 | 2479.190 | 0.97 | 19253428 | 0.01 | 2000 | >LDR |
| Tl | 205 | 1 | No Gas | 0.025 | 0.025 | 9.33 | 1817 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 0.021 | 0.021 | 33.03 | 707 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.092 | 0.092 | 2.22 | 8595 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 3.269 | 3.269 | 0.69 | 269191 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 332321.979 | 332321.979 | 4.85 | 728721 | 45.60 | 200000 | >LDR |
| Sb | 121 | 2 | He | 0.135 | 0.135 | 6.39 | 1390 | 0.01 | 2000 | |
| Ti | 47 | 2 | He | 1.720 | 1.720 | 11.36 | 390 | 0.44 | 2000 | |
| Cu | 63 | 1 | No Gas | 5.837 | 5.837 | 2.86 | 83023 | 0.01 | 2000 | |
| Ca | 44 | 1 | No Gas | 314792.075 | 314792.075 | 0.07 | 175518651 | 0.18 | 200000 | >LDR |
| Zn | 66 | 1 | No Gas | 4.591 | 4.591 | 1.05 | 20198 | 0.02 | 2000 | |
| Se | 82 | 1 | No Gas | 1.765 | 1.765 | 28.78 | 823 | 0.21 | 2000 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 729722 | 2.29 | 789601 | 92.42 | 70 | 120 | |
| Ge | 72 | 2 | He | 791337 | 0.96 | 909952 | 86.96 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2799800 | 0.28 | 3202767 | 87.42 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3737753 | 0.93 | 4425209 | 84.46 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3933388 | 0.45 | 4898592 | 80.30 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS24061196-02 |
| Data File Name | 199SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T20:29:29-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW B 214140 |
| ISTD Ref FileName | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 29.293 | 29.293 | 1.68 | 338449 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.085 | 0.085 | 11.93 | 285 | 0.03 | 2000 | |
| V | 51 | 2 | He | 0.039 | 0.039 | 80.17 | 6615 | 0.00 | 2000 | |
| Cr | 52 | 2 | He | 5.218 | 5.218 | 3.09 | 44512 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 7806.302 | 7806.302 | 0.88 | 52200371 | 0.01 | 200000 | |
| Se | 78 | 2 | He | 0.053 | 0.053 | 280.15 | 100 | 0.05 | 2000 | |
| As | 75 | 2 | He | 0.633 | 0.633 | 3.38 | 1006 | 0.06 | 2000 | |
| Ca | 44 | 2 | He | 10128.085 | 10128.085 | 1.47 | 386042 | 2.62 | 200000 | |
| Na | 23 | 2 | He | 117705.547 | 117705.547 | 1.42 | 115596865 | 0.10 | 200000 | |
| Mg | 24 | 2 | He | 6741.656 | 6741.656 | 1.76 | 4081571 | 0.17 | 200000 | |
| K | 39 | 2 | He | 2116.225 | 2116.225 | 1.03 | 1631982 | 0.13 | 200000 | |
| Mn | 55 | 2 | He | 107.854 | 107.854 | 0.93 | 586029 | 0.02 | 2000 | |
| Co | 59 | 2 | He | 0.069 | 0.069 | 22.76 | 883 | 0.01 | 2000 | |
| Ni | 60 | 2 | He | 1.146 | 1.146 | 5.43 | 3437 | 0.03 | 2000 | |
| Cu | 63 | 2 | He | 0.633 | 0.633 | 3.85 | 5461 | 0.01 | 2000 | |
| Zn | 66 | 2 | He | 4.511 | 4.511 | 5.93 | 7195 | 0.06 | 2000 | |
| Al | 27 | 2 | He | 10.774 | 10.774 | 6.93 | 4964 | 0.22 | 2000 | |
| B | 11 | 1 | No Gas | 101.162 | 101.162 | 0.91 | 186202 | 0.05 | 2000 | |
| Al | 27 | 1 | No Gas | 10.365 | 10.365 | 5.00 | 175670 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 15945.554 | 15945.554 | 1.80 | 110451292 | 0.01 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | 0.016 | 0.016 | 28.76 | 643 | 0.00 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.071 | 0.071 | 10.98 | 324 | 0.02 | 2000 | |
| Sr | 88 | 1 | No Gas | 321.353 | 321.353 | 0.95 | 14091123 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.300 | 0.300 | 11.59 | 2720 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | -0.005 | -0.005 | -90.41 | 6892 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.034 | 0.034 | 14.15 | 1310 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 205.337 | 205.337 | 1.66 | 1694984 | 0.01 | 2000 | |
| Tl | 205 | 1 | No Gas | 0.003 | 0.003 | 26.28 | 777 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 0.001 | 0.001 | 86.79 | 307 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.117 | 0.117 | 2.32 | 11569 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.010 | 0.010 | 16.09 | 2240 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 10556.432 | 10556.432 | 0.17 | 23647 | 44.64 | 200000 | |
| Sb | 121 | 2 | He | 0.037 | 0.037 | 36.42 | 560 | 0.01 | 2000 | |
| Ti | 47 | 2 | He | 1.535 | 1.535 | 12.54 | 357 | 0.43 | 2000 | |
| Cu | 63 | 1 | No Gas | 1.585 | 1.585 | 3.66 | 24282 | 0.01 | 2000 | |
| Ca | 44 | 1 | No Gas | 9551.189 | 9551.189 | 1.44 | 5536238 | 0.17 | 200000 | |
| Zn | 66 | 1 | No Gas | 4.436 | 4.436 | 3.20 | 20322 | 0.02 | 2000 | |
| Se | 82 | 1 | No Gas | -0.427 | -0.427 | -12.42 | 263 | -0.16 | 2000 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 767122 | 0.49 | 789601 | 97.15 | 70 | 120 | |
| Ge | 72 | 2 | He | 806822 | 0.67 | 909952 | 88.67 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2903819 | 0.55 | 3202767 | 90.67 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3971112 | 1.21 | 4425209 | 89.74 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4352636 | 0.41 | 4898592 | 88.85 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS24061196-05 |
| Data File Name | 200SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T20:31:57-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW B 214140 |
| ISTD Ref FileName | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 9.758 | 9.758 | 0.78 | 139368 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.346 | 0.346 | 5.36 | 987 | 0.04 | 2000 | |
| V | 51 | 2 | He | 0.815 | 0.815 | 0.50 | 11607 | 0.01 | 2000 | |
| Cr | 52 | 2 | He | 0.649 | 0.649 | 8.90 | 12453 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 499.597 | 499.597 | 0.55 | 3415844 | 0.01 | 200000 | |
| Se | 78 | 2 | He | 0.532 | 0.532 | 22.64 | 151 | 0.35 | 2000 | |
| As | 75 | 2 | He | 0.649 | 0.649 | 4.91 | 1043 | 0.06 | 2000 | |
| Ca | 44 | 2 | He | 4742.794 | 4742.794 | 1.06 | 184452 | 2.57 | 200000 | |
| Na | 23 | 2 | He | 52451.143 | 52451.143 | 0.51 | 52532703 | 0.10 | 200000 | |
| Mg | 24 | 2 | He | 2412.762 | 2412.762 | 0.69 | 1489561 | 0.16 | 200000 | |
| K | 39 | 2 | He | 1571.513 | 1571.513 | 0.84 | 1257139 | 0.13 | 200000 | |
| Mn | 55 | 2 | He | 228.368 | 228.368 | 0.55 | 1263764 | 0.02 | 2000 | |
| Co | 59 | 2 | He | 2.729 | 2.729 | 0.88 | 30895 | 0.01 | 2000 | |
| Ni | 60 | 2 | He | 12.555 | 12.555 | 2.14 | 36104 | 0.03 | 2000 | |
| Cu | 63 | 2 | He | 2.193 | 2.193 | 1.70 | 17798 | 0.01 | 2000 | |
| Zn | 66 | 2 | He | 22.458 | 22.458 | 0.80 | 33408 | 0.07 | 2000 | |
| Al | 27 | 2 | He | 286.629 | 286.629 | 0.11 | 111392 | 0.26 | 2000 | |
| B | 11 | 1 | No Gas | 12.434 | 12.434 | 3.25 | 28646 | 0.04 | 2000 | |
| Al | 27 | 1 | No Gas | 283.241 | 283.241 | 1.58 | 3880135 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 4885.146 | 4885.146 | 1.28 | 33328563 | 0.01 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | 0.037 | 0.037 | 6.99 | 1123 | 0.00 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.093 | 0.093 | 25.49 | 424 | 0.02 | 2000 | |
| Sr | 88 | 1 | No Gas | 76.822 | 76.822 | 1.47 | 3344902 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.058 | 0.058 | 11.94 | 613 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | -0.027 | -0.027 | -84.59 | 6492 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.107 | 0.107 | 7.52 | 2860 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 31.355 | 31.355 | 1.19 | 257369 | 0.01 | 2000 | |
| Tl | 205 | 1 | No Gas | 0.016 | 0.016 | 15.14 | 1480 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 0.016 | 0.016 | 20.17 | 653 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.623 | 0.623 | 1.99 | 52517 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.259 | 0.259 | 0.51 | 24762 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 4894.174 | 4894.174 | 5.14 | 11198 | 43.71 | 200000 | |
| Sb | 121 | 2 | He | 0.122 | 0.122 | 9.99 | 1323 | 0.01 | 2000 | |
| Ti | 47 | 2 | He | 1.134 | 1.134 | 6.38 | 273 | 0.41 | 2000 | |
| Cu | 63 | 1 | No Gas | 2.679 | 2.679 | 0.56 | 39447 | 0.01 | 2000 | |
| Ca | 44 | 1 | No Gas | 4576.469 | 4576.469 | 1.09 | 2610459 | 0.18 | 200000 | |
| Zn | 66 | 1 | No Gas | 22.229 | 22.229 | 0.44 | 90782 | 0.02 | 2000 | |
| Se | 82 | 1 | No Gas | 0.144 | 0.144 | 188.83 | 410 | 0.04 | 2000 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 741399 | 0.61 | 789601 | 93.90 | 70 | 120 | |
| Ge | 72 | 2 | He | 822159 | 1.02 | 909952 | 90.35 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2850482 | 0.96 | 3202767 | 89.00 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3941735 | 0.84 | 4425209 | 89.07 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4337471 | 1.48 | 4898592 | 88.55 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS24061196-06 |
| Data File Name | 201SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T20:34:22-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW B 214140 |
| ISTD Ref FileName | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 8.930 | 8.930 | 2.36 | 131219 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.287 | 0.287 | 12.85 | 825 | 0.03 | 2000 | |
| V | 51 | 2 | He | 0.869 | 0.869 | 7.47 | 11856 | 0.01 | 2000 | |
| Cr | 52 | 2 | He | 0.813 | 0.813 | 8.99 | 13537 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 531.561 | 531.561 | 1.70 | 3607703 | 0.01 | 200000 | |
| Se | 78 | 2 | He | 0.686 | 0.686 | 27.52 | 165 | 0.41 | 2000 | |
| As | 75 | 2 | He | 0.625 | 0.625 | 16.25 | 1008 | 0.06 | 2000 | |
| Ca | 44 | 2 | He | 4411.941 | 4411.941 | 1.58 | 170413 | 2.59 | 200000 | |
| Na | 23 | 2 | He | 48044.312 | 48044.312 | 1.43 | 47781213 | 0.10 | 200000 | |
| Mg | 24 | 2 | He | 2217.795 | 2217.795 | 1.68 | 1359581 | 0.16 | 200000 | |
| K | 39 | 2 | He | 1468.632 | 1468.632 | 2.12 | 1171952 | 0.13 | 200000 | |
| Mn | 55 | 2 | He | 209.597 | 209.597 | 1.42 | 1151713 | 0.02 | 2000 | |
| Co | 59 | 2 | He | 2.594 | 2.594 | 5.77 | 29158 | 0.01 | 2000 | |
| Ni | 60 | 2 | He | 11.488 | 11.488 | 1.50 | 32816 | 0.04 | 2000 | |
| Cu | 63 | 2 | He | 2.453 | 2.453 | 4.24 | 19694 | 0.01 | 2000 | |
| Zn | 66 | 2 | He | 20.929 | 20.929 | 2.38 | 30965 | 0.07 | 2000 | |
| Al | 27 | 2 | He | 335.812 | 335.812 | 1.42 | 129418 | 0.26 | 2000 | |
| B | 11 | 1 | No Gas | 11.723 | 11.723 | 6.46 | 27388 | 0.04 | 2000 | |
| Al | 27 | 1 | No Gas | 333.457 | 333.457 | 1.93 | 4564481 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 4674.762 | 4674.762 | 2.02 | 31913340 | 0.01 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | 0.041 | 0.041 | 3.67 | 1197 | 0.00 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.085 | 0.085 | 22.60 | 381 | 0.02 | 2000 | |
| Sr | 88 | 1 | No Gas | 71.164 | 71.164 | 1.51 | 3073719 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.090 | 0.090 | 11.26 | 883 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.043 | 0.043 | 49.52 | 7516 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.111 | 0.111 | 5.56 | 2940 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 28.929 | 28.929 | 1.82 | 235562 | 0.01 | 2000 | |
| Tl | 205 | 1 | No Gas | 0.016 | 0.016 | 8.95 | 1513 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 0.012 | 0.012 | 18.67 | 550 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.623 | 0.623 | 2.19 | 52424 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.250 | 0.250 | 2.43 | 23830 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 4475.743 | 4475.743 | 3.69 | 10167 | 44.02 | 200000 | |
| Sb | 121 | 2 | He | 0.104 | 0.104 | 4.26 | 1160 | 0.01 | 2000 | |
| Ti | 47 | 2 | He | 1.914 | 1.914 | 29.10 | 447 | 0.43 | 2000 | |
| Cu | 63 | 1 | No Gas | 2.940 | 2.940 | 3.17 | 43195 | 0.01 | 2000 | |
| Ca | 44 | 1 | No Gas | 4249.597 | 4249.597 | 2.22 | 2425992 | 0.18 | 200000 | |
| Zn | 66 | 1 | No Gas | 20.397 | 20.397 | 1.29 | 83526 | 0.02 | 2000 | |
| Se | 82 | 1 | No Gas | 0.045 | 0.045 | 231.68 | 383 | 0.01 | 2000 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 740428 | 1.12 | 789601 | 93.77 | 70 | 120 | |
| Ge | 72 | 2 | He | 816307 | 1.18 | 909952 | 89.71 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2852014 | 1.10 | 3202767 | 89.05 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3910006 | 0.99 | 4425209 | 88.36 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4329566 | 0.75 | 4898592 | 88.38 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS24061196-08 |
| Data File Name | 202SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T20:36:46-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW B 214140 |
| ISTD Ref FileName | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 24.774 | 24.774 | 0.64 | 262051 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.045 | 0.045 | 20.64 | 153 | 0.03 | 2000 | |
| V | 51 | 2 | He | 1.158 | 1.158 | 4.13 | 12978 | 0.01 | 2000 | |
| Cr | 52 | 2 | He | 466.346 | 466.346 | 1.94 | 3175524 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 54646.569 | 54646.569 | 2.46 | 351201995 | 0.02 | 200000 | |
| Se | 78 | 2 | He | 0.114 | 0.114 | 44.64 | 102 | 0.11 | 2000 | |
| As | 75 | 2 | He | 0.095 | 0.095 | 54.36 | 390 | 0.02 | 2000 | |
| Ca | 44 | 2 | He | 20262.533 | 20262.533 | 2.96 | 741902 | 2.73 | 200000 | |
| Na | 23 | 2 | He | 76964.459 | 76964.459 | 2.27 | 72684179 | 0.11 | 200000 | |
| Mg | 24 | 2 | He | 10135.159 | 10135.159 | 2.89 | 5897203 | 0.17 | 200000 | |
| K | 39 | 2 | He | 3452.012 | 3452.012 | 2.13 | 2507807 | 0.14 | 200000 | |
| Mn | 55 | 2 | He | 1008.459 | 1008.459 | 1.98 | 5263372 | 0.02 | 2000 | |
| Co | 59 | 2 | He | 4.566 | 4.566 | 1.02 | 48696 | 0.01 | 2000 | |
| Ni | 60 | 2 | He | 296.567 | 296.567 | 1.41 | 799644 | 0.04 | 2000 | |
| Cu | 63 | 2 | He | 33.720 | 33.720 | 1.51 | 249970 | 0.01 | 2000 | |
| Zn | 66 | 2 | He | 10.425 | 10.425 | 3.97 | 15028 | 0.07 | 2000 | |
| Al | 27 | 2 | He | 58.899 | 58.899 | 6.23 | 22279 | 0.26 | 2000 | |
| B | 11 | 1 | No Gas | 48.801 | 48.801 | 0.54 | 83753 | 0.06 | 2000 | |
| Al | 27 | 1 | No Gas | 56.205 | 56.205 | 2.45 | 749034 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 15198.384 | 15198.384 | 1.15 | 97336029 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | 0.044 | 0.044 | 8.10 | 1207 | 0.00 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.347 | 0.347 | 5.79 | 1505 | 0.02 | 2000 | |
| Sr | 88 | 1 | No Gas | 383.282 | 383.282 | 0.83 | 15744622 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.514 | 0.514 | 5.14 | 4294 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.053 | 0.053 | 22.98 | 7309 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.080 | 0.080 | 5.89 | 2137 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 358.216 | 358.216 | 0.59 | 2769517 | 0.01 | 2000 | |
| Tl | 205 | 1 | No Gas | 0.004 | 0.004 | 43.38 | 800 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 0.003 | 0.003 | 54.92 | 317 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.294 | 0.294 | 1.28 | 24797 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.030 | 0.030 | 3.26 | 3831 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 20403.698 | 20403.698 | 4.19 | 43893 | 46.49 | 200000 | |
| Sb | 121 | 2 | He | 0.082 | 0.082 | 19.71 | 917 | 0.01 | 2000 | |
| Ti | 47 | 2 | He | 1.567 | 1.567 | 7.67 | 350 | 0.45 | 2000 | |
| Cu | 63 | 1 | No Gas | 34.457 | 34.457 | 1.03 | 464412 | 0.01 | 2000 | |
| Ca | 44 | 1 | No Gas | 19381.153 | 19381.153 | 1.49 | 10373444 | 0.19 | 200000 | |
| Zn | 66 | 1 | No Gas | 9.915 | 9.915 | 1.88 | 39330 | 0.03 | 2000 | |
| Se | 82 | 1 | No Gas | -0.388 | -0.388 | -19.73 | 253 | -0.15 | 2000 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 684924 | 0.35 | 789601 | 86.74 | 70 | 120 | |
| Ge | 72 | 2 | He | 775714 | 1.11 | 909952 | 85.25 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2684875 | 0.72 | 3202767 | 83.83 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3720344 | 0.58 | 4425209 | 84.07 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4153229 | 0.76 | 4898592 | 84.78 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS24061196-09 |
| Data File Name | 203SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T20:39:12-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW B 214140 |
| ISTD Ref FileName | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 26.339 | 26.339 | 1.52 | 273747 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.047 | 0.047 | 10.27 | 158 | 0.03 | 2000 | |
| V | 51 | 2 | He | 1.259 | 1.259 | 3.02 | 13578 | 0.01 | 2000 | |
| Cr | 52 | 2 | He | 492.954 | 492.954 | 2.03 | 3357520 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 56978.770 | 56978.770 | 2.66 | 366327728 | 0.02 | 200000 | |
| Se | 78 | 2 | He | 0.238 | 0.238 | 20.77 | 114 | 0.21 | 2000 | |
| As | 75 | 2 | He | 0.103 | 0.103 | 18.80 | 399 | 0.03 | 2000 | |
| Ca | 44 | 2 | He | 21402.772 | 21402.772 | 2.32 | 783960 | 2.73 | 200000 | |
| Na | 23 | 2 | He | 82309.043 | 82309.043 | 1.66 | 77757786 | 0.11 | 200000 | |
| Mg | 24 | 2 | He | 10791.066 | 10791.066 | 2.27 | 6281408 | 0.17 | 200000 | |
| K | 39 | 2 | He | 3660.603 | 3660.603 | 1.59 | 2655513 | 0.14 | 200000 | |
| Mn | 55 | 2 | He | 1080.805 | 1080.805 | 2.65 | 5642911 | 0.02 | 2000 | |
| Co | 59 | 2 | He | 4.930 | 4.930 | 3.59 | 52580 | 0.01 | 2000 | |
| Ni | 60 | 2 | He | 326.080 | 326.080 | 2.68 | 879463 | 0.04 | 2000 | |
| Cu | 63 | 2 | He | 35.959 | 35.959 | 2.76 | 266614 | 0.01 | 2000 | |
| Zn | 66 | 2 | He | 11.593 | 11.593 | 1.42 | 16630 | 0.07 | 2000 | |
| Al | 27 | 2 | He | 60.354 | 60.354 | 1.21 | 22812 | 0.26 | 2000 | |
| B | 11 | 1 | No Gas | 52.528 | 52.528 | 1.67 | 88911 | 0.06 | 2000 | |
| Al | 27 | 1 | No Gas | 58.679 | 58.679 | 2.11 | 787697 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 15885.065 | 15885.065 | 1.53 | 102636122 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | 0.039 | 0.039 | 17.68 | 1110 | 0.00 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.411 | 0.411 | 4.80 | 1800 | 0.02 | 2000 | |
| Sr | 88 | 1 | No Gas | 402.157 | 402.157 | 1.33 | 16680490 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.520 | 0.520 | 2.02 | 4391 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.121 | 0.121 | 19.88 | 8396 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.075 | 0.075 | 7.78 | 2067 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 374.157 | 374.157 | 2.02 | 2920717 | 0.01 | 2000 | |
| Tl | 205 | 1 | No Gas | 0.002 | 0.002 | 16.50 | 713 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 0.001 | 0.001 | 111.20 | 293 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.302 | 0.302 | 2.09 | 25474 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.028 | 0.028 | 9.77 | 3661 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 21802.946 | 21802.946 | 2.15 | 46926 | 46.46 | 200000 | |
| Sb | 121 | 2 | He | 0.076 | 0.076 | 16.11 | 870 | 0.01 | 2000 | |
| Ti | 47 | 2 | He | 1.835 | 1.835 | 15.11 | 407 | 0.45 | 2000 | |
| Cu | 63 | 1 | No Gas | 36.731 | 36.731 | 2.19 | 499391 | 0.01 | 2000 | |
| Ca | 44 | 1 | No Gas | 20422.977 | 20422.977 | 1.90 | 11028114 | 0.19 | 200000 | |
| Zn | 66 | 1 | No Gas | 11.046 | 11.046 | 1.65 | 43957 | 0.03 | 2000 | |
| Se | 82 | 1 | No Gas | -0.292 | -0.292 | -103.70 | 280 | -0.10 | 2000 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 679511 | 0.74 | 789601 | 86.06 | 70 | 120 | |
| Ge | 72 | 2 | He | 775959 | 0.51 | 909952 | 85.27 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2708901 | 0.67 | 3202767 | 84.58 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3756673 | 0.87 | 4425209 | 84.89 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4159972 | 0.73 | 4898592 | 84.92 | 70 | 120 | |

# Continuing Calibration Verification (CCV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCV |
| Data File Name | 204_CCV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T20:41:38-05:00 |
| Sample Type | CCV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Exp Value | %Rec | %Low | %High2 | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 97.994 | 1.883 | 934360 | 2.02 | 100 | 98.0 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 96.763 | 1.766 | 249463 | 2.02 | 100 | 96.8 | 90 | 110 | |
| V | 51 | 2 | He | 101.731 | 0.884 | 618315 | 1.80 | 100 | 101.7 | 90 | 110 | |
| Cr | 52 | 2 | He | 101.874 | 0.964 | 711442 | 1.36 | 100 | 101.9 | 90 | 110 | |
| Fe | 56 | 2 | He | 10263.082 | 0.812 | 67104976 | 1.68 | 10000 | 102.6 | 90 | 110 | |
| Se | 78 | 2 | He | 102.090 | 1.410 | 10070 | 0.54 | 100 | 102.1 | 90 | 110 | |
| As | 75 | 2 | He | 103.477 | 1.306 | 113206 | 2.49 | 100 | 103.5 | 90 | 110 | |
| Ca | 44 | 2 | He | 10240.366 | 0.940 | 381676 | 2.11 | 10000 | 102.4 | 90 | 110 | |
| Na | 23 | 2 | He | 10162.204 | 0.979 | 9828069 | 2.16 | 10000 | 101.6 | 90 | 110 | |
| Mg | 24 | 2 | He | 10185.584 | 1.503 | 6029457 | 2.64 | 10000 | 101.9 | 90 | 110 | |
| K | 39 | 2 | He | 10179.012 | 1.181 | 7361684 | 2.36 | 10000 | 101.8 | 90 | 110 | |
| Mn | 55 | 2 | He | 102.276 | 0.469 | 543423 | 1.35 | 100 | 102.3 | 90 | 110 | |
| Co | 59 | 2 | He | 104.325 | 1.015 | 1129052 | 2.11 | 100 | 104.3 | 90 | 110 | |
| Ni | 60 | 2 | He | 104.598 | 0.905 | 287021 | 2.01 | 100 | 104.6 | 90 | 110 | |
| Cu | 63 | 2 | He | 101.666 | 0.441 | 765447 | 1.50 | 100 | 101.7 | 90 | 110 | |
| Zn | 66 | 2 | He | 103.144 | 1.696 | 144566 | 2.34 | 100 | 103.1 | 90 | 110 | |
| Al | 27 | 2 | He | 103.742 | 3.795 | 39255 | 4.89 | 100 | 103.7 | 90 | 110 | |
| B | 11 | 1 | No Gas | 462.158 | 0.858 | 752946 | 1.14 | 500 | 92.4 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 101.250 | 1.703 | 1372403 | 1.89 | 100 | 101.2 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 503.060 | 1.935 | 3490258 | 1.93 | 5000 | 10.1 | 90 | 110 | CCV Main CR1-2 Failed |
| Ag | 107 | 1 | No Gas | 102.529 | 2.199 | 2292294 | 2.67 | 100 | 102.5 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 101.121 | 2.484 | 453422 | 2.92 | 100 | 101.1 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 101.691 | 2.007 | 4299076 | 2.48 | 100 | 101.7 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 99.579 | 1.575 | 835434 | 2.04 | 100 | 99.6 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 101.634 | 0.815 | 1551296 | 1.27 | 100 | 101.6 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 101.110 | 1.412 | 2131135 | 1.53 | 100 | 101.1 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 100.333 | 0.820 | 798439 | 1.28 | 100 | 100.3 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 101.550 | 1.637 | 5663647 | 2.50 | 100 | 101.5 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 101.433 | 1.231 | 2394724 | 2.10 | 100 | 101.4 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 101.671 | 1.507 | 8237406 | 2.42 | 100 | 101.7 | 90 | 110 | |
| U | 238 | 1 | No Gas | 101.520 | 0.409 | 9175135 | 1.25 | 100 | 101.5 | 90 | 110 | |
| Ca | 43 | 2 | He | 10139.990 | 1.420 | 22215 | 2.51 | 10000 | 101.4 | 90 | 110 | |
| Sb | 121 | 2 | He | 107.489 | 0.642 | 915388 | 1.62 | 100 | 107.5 | 90 | 110 | |
| Ti | 47 | 2 | He | 105.136 | 1.526 | 22742 | 2.73 | 100 | 105.1 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 103.523 | 1.260 | 1442226 | 1.53 | 100 | 103.5 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 101.142 | 2.138 | 26446 | 1.46 | 100 | 101.1 | 90 | 110 | |
| Zr | 90 | 1 | No Gas | 91.657 | 1.572 | 2406478 | 2.04 | 100 | 91.7 | 90 | 110 | |
| Zr | 90 | 2 | He | 96.211 | 1.899 | 973278 | 3.11 | 100 | 96.2 | 90 | 110 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 701664 | 0.30 | 789601 | 88.86 | 70 | 120 | |
| Ge | 72 | 2 | He | 788954 | 1.20 | 909952 | 86.70 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2779620 | 0.79 | 3202767 | 86.79 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3827276 | 0.47 | 4425209 | 86.49 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4335807 | 0.92 | 4898592 | 88.51 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCB |
| Data File Name | 205_CCB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T20:44:02-05:00 |
| Sample Type | CCB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 0.436 | 11.9 | 47892 | 0.7 | 0.5 | |
| Be | 9 | 1 | No Gas | 0.016 | 37.5 | 83 | 18.3 | 0.5 | |
| V | 51 | 2 | He | -0.724 | -1.8 | 1915 | 4.2 | 2.5 | |
| Cr | 52 | 2 | He | -0.273 | -14.6 | 5685 | 5.1 | 2.5 | |
| Fe | 56 | 2 | He | 1.463 | 5.4 | 22045 | 2.4 | 100 | |
| Se | 78 | 2 | He | 0.244 | 54.3 | 119 | 11.2 | 2 | |
| As | 75 | 2 | He | -0.044 | -77.2 | 249 | 15.4 | 2.5 | |
| Ca | 44 | 2 | He | 15.284 | 3.5 | 1057 | 2.0 | 100 | |
| Na | 23 | 2 | He | 80.952 | 2.7 | 155582 | 1.3 | 100 | |
| Mg | 24 | 2 | He | -0.068 | -66.7 | 1700 | 1.6 | 100 | |
| K | 39 | 2 | He | -4.405 | -32.6 | 81024 | 1.4 | 100 | |
| Mn | 55 | 2 | He | 0.120 | 7.9 | 1153 | 4.4 | 2.5 | |
| Co | 59 | 2 | He | 0.005 | 35.1 | 183 | 11.4 | 2.5 | |
| Ni | 60 | 2 | He | 0.218 | 11.8 | 833 | 8.5 | 2.5 | |
| Cu | 63 | 2 | He | 0.067 | 16.2 | 1103 | 7.5 | 2 | |
| Zn | 66 | 2 | He | 1.129 | 13.5 | 2364 | 9.1 | 2.5 | |
| Al | 27 | 2 | He | -0.168 | -74.3 | 823 | 5.6 | 5 | |
| B | 11 | 1 | No Gas | 2.567 | 22.2 | 11365 | 7.8 | 0.5 | CCB Main CR1 Failed |
| Al | 27 | 1 | No Gas | 0.049 | 102.7 | 31834 | 2.6 | 5 | |
| Si | 28 | 1 | No Gas | 14.455 | 1.4 | 258799 | 0.5 | 10 | CCB Main CR1 Failed |
| Ag | 107 | 1 | No Gas | 0.002 | 142.3 | 303 | 16.3 | 2.5 | |
| Cd | 111 | 1 | No Gas | 0.001 | 182.1 | -1 | -1065.1 | 1 | |
| Sr | 88 | 1 | No Gas | -0.011 | -26.1 | 1350 | 8.0 | 2.5 | |
| Mo | 95 | 1 | No Gas | 0.062 | 41.1 | 643 | 33.2 | 2.5 | |
| Sn | 118 | 1 | No Gas | -0.104 | -17.4 | 5245 | 4.6 | 5 | |
| Sb | 121 | 1 | No Gas | 0.045 | 18.9 | 1497 | 11.8 | 2.5 | |
| Ba | 137 | 1 | No Gas | -0.027 | -25.1 | 343 | 16.6 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.060 | 49.4 | 4041 | 41.4 | 1 | |
| Tl | 203 | 1 | No Gas | 0.052 | 48.9 | 1533 | 39.7 | 1 | |
| Pb | 208 | 1 | No Gas | 0.007 | 18.2 | 2647 | 3.4 | 2.5 | |
| U | 238 | 1 | No Gas | 0.003 | 61.6 | 1640 | 11.0 | 2.5 | |
| Ca | 43 | 2 | He | 2.478 | 582.8 | 47 | 68.9 | 100 | |
| Sb | 121 | 2 | He | 0.033 | 23.3 | 523 | 12.7 | 2.5 | |
| Ti | 47 | 2 | He | -0.064 | -40.6 | 3 | 173.2 | 2.5 | |
| Cu | 63 | 1 | No Gas | 0.081 | 15.0 | 2330 | 7.6 | 2.5 | |
| Se | 82 | 1 | No Gas | -0.294 | -146.2 | 290 | 38.9 | 2 | |
| Zr | 90 | 1 | No Gas | 0.111 | 35.4 | 3947 | 26.0 | 2.5 | |
| Zr | 90 | 2 | He | 0.078 | 14.9 | 2167 | 5.6 | 2.5 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 713245 | 0.45 | 789601 | 90.33 | 70 | 120 | |
| Ge | 72 | 2 | He | 804010 | 0.14 | 909952 | 88.36 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2814154 | 0.62 | 3202767 | 87.87 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3909399 | 0.84 | 4425209 | 88.34 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4425490 | 0.40 | 4898592 | 90.34 | 70 | 120 | |

# Continuing Calibration Verification (CCV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCV |
| Data File Name | 211_CCV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T20:58:48-05:00 |
| Sample Type | CCV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Exp Value | %Rec | %Low | %High2 | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 97.671 | 2.347 | 1021112 | 2.51 | 100 | 97.7 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 94.898 | 2.497 | 268214 | 2.73 | 100 | 94.9 | 90 | 110 | |
| V | 51 | 2 | He | 102.869 | 0.640 | 659426 | 1.03 | 100 | 102.9 | 90 | 110 | |
| Cr | 52 | 2 | He | 102.034 | 1.071 | 751602 | 0.60 | 100 | 102.0 | 90 | 110 | |
| Fe | 56 | 2 | He | 10286.069 | 0.626 | 70945732 | 1.66 | 10000 | 102.9 | 90 | 110 | |
| Se | 78 | 2 | He | 104.274 | 0.275 | 10849 | 1.71 | 100 | 104.3 | 90 | 110 | |
| As | 75 | 2 | He | 104.204 | 1.602 | 120242 | 2.02 | 100 | 104.2 | 90 | 110 | |
| Ca | 44 | 2 | He | 10394.613 | 0.724 | 408670 | 1.94 | 10000 | 103.9 | 90 | 110 | |
| Na | 23 | 2 | He | 10319.392 | 0.315 | 10525788 | 1.39 | 10000 | 103.2 | 90 | 110 | |
| Mg | 24 | 2 | He | 10245.077 | 0.374 | 6396809 | 1.42 | 10000 | 102.5 | 90 | 110 | |
| K | 39 | 2 | He | 10375.910 | 0.798 | 7913628 | 1.71 | 10000 | 103.8 | 90 | 110 | |
| Mn | 55 | 2 | He | 101.488 | 0.376 | 568820 | 1.17 | 100 | 101.5 | 90 | 110 | |
| Co | 59 | 2 | He | 104.648 | 1.098 | 1194625 | 1.78 | 100 | 104.6 | 90 | 110 | |
| Ni | 60 | 2 | He | 104.563 | 0.942 | 302639 | 1.08 | 100 | 104.6 | 90 | 110 | |
| Cu | 63 | 2 | He | 101.887 | 0.422 | 809205 | 1.54 | 100 | 101.9 | 90 | 110 | |
| Zn | 66 | 2 | He | 103.165 | 1.199 | 152544 | 2.70 | 100 | 103.2 | 90 | 110 | |
| Al | 27 | 2 | He | 103.303 | 1.731 | 41224 | 1.69 | 100 | 103.3 | 90 | 110 | |
| B | 11 | 1 | No Gas | 455.062 | 1.898 | 812876 | 1.98 | 500 | 91.0 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 103.873 | 2.678 | 1500884 | 2.90 | 100 | 103.9 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 524.161 | 2.008 | 3871728 | 2.24 | 5000 | 10.5 | 90 | 110 | CCV Main CR1-2 Failed |
| Ag | 107 | 1 | No Gas | 105.233 | 1.136 | 2471940 | 0.72 | 100 | 105.2 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 102.309 | 1.171 | 481998 | 1.11 | 100 | 102.3 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 105.234 | 2.269 | 4673965 | 1.64 | 100 | 105.2 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 102.086 | 1.725 | 899853 | 1.21 | 100 | 102.1 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 103.725 | 1.276 | 1663451 | 1.52 | 100 | 103.7 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 101.223 | 1.343 | 2275601 | 1.67 | 100 | 101.2 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 101.544 | 2.399 | 849011 | 1.86 | 100 | 101.5 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 102.238 | 1.827 | 5874855 | 1.81 | 100 | 102.2 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 102.764 | 2.032 | 2499715 | 1.93 | 100 | 102.8 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 102.899 | 1.364 | 8589352 | 1.10 | 100 | 102.9 | 90 | 110 | |
| U | 238 | 1 | No Gas | 102.065 | 1.500 | 9504515 | 1.42 | 100 | 102.1 | 90 | 110 | |
| Ca | 43 | 2 | He | 10539.374 | 2.063 | 24358 | 3.55 | 10000 | 105.4 | 90 | 110 | |
| Sb | 121 | 2 | He | 106.987 | 0.606 | 961049 | 0.92 | 100 | 107.0 | 90 | 110 | |
| Ti | 47 | 2 | He | 105.409 | 2.330 | 24044 | 0.85 | 100 | 105.4 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 105.474 | 1.334 | 1567237 | 1.72 | 100 | 105.5 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 99.262 | 4.651 | 27695 | 4.99 | 100 | 99.3 | 90 | 110 | |
| Zr | 90 | 1 | No Gas | 94.509 | 2.142 | 2606967 | 1.49 | 100 | 94.5 | 90 | 110 | |
| Zr | 90 | 2 | He | 97.122 | 0.396 | 1036275 | 1.75 | 100 | 97.1 | 90 | 110 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 769224 | 0.61 | 789601 | 97.42 | 70 | 120 | |
| Ge | 72 | 2 | He | 832265 | 1.51 | 909952 | 91.46 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2964622 | 0.44 | 3202767 | 92.56 | 70 | 120 | |
| In | 115 | 1 | No Gas | 4021687 | 0.94 | 4425209 | 90.88 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4467681 | 0.57 | 4898592 | 91.20 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCB |
| Data File Name | 212_CCB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T21:01:12-05:00 |
| Sample Type | CCB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 0.539 | 19.4 | 52548 | 1.5 | 0.5 | CCB Main CR1 Failed |
| Be | 9 | 1 | No Gas | 0.016 | 30.4 | 92 | 15.7 | 0.5 | |
| V | 51 | 2 | He | -0.741 | -1.1 | 1866 | 2.1 | 2.5 | |
| Cr | 52 | 2 | He | -0.250 | -6.6 | 6035 | 1.4 | 2.5 | |
| Fe | 56 | 2 | He | 1.784 | 1.9 | 24966 | 2.1 | 100 | |
| Se | 78 | 2 | He | 0.251 | 56.2 | 123 | 13.0 | 2 | |
| As | 75 | 2 | He | -0.051 | -62.3 | 250 | 15.0 | 2.5 | |
| Ca | 44 | 2 | He | 13.904 | 15.9 | 1037 | 8.4 | 100 | |
| Na | 23 | 2 | He | 146.656 | 2.6 | 226890 | 0.6 | 100 | CCB Main CR1 Failed |
| Mg | 24 | 2 | He | 0.150 | 115.2 | 1890 | 5.2 | 100 | |
| K | 39 | 2 | He | 1.569 | 95.5 | 88117 | 0.3 | 100 | |
| Mn | 55 | 2 | He | 0.124 | 6.0 | 1217 | 4.7 | 2.5 | |
| Co | 59 | 2 | He | 0.005 | 41.8 | 180 | 11.1 | 2.5 | |
| Ni | 60 | 2 | He | 0.211 | 4.1 | 840 | 2.1 | 2.5 | |
| Cu | 63 | 2 | He | 0.064 | 5.5 | 1113 | 1.4 | 2 | |
| Zn | 66 | 2 | He | 1.229 | 4.3 | 2587 | 3.9 | 2.5 | |
| Al | 27 | 2 | He | 0.148 | 104.8 | 973 | 7.2 | 5 | |
| B | 11 | 1 | No Gas | 2.043 | 27.2 | 11303 | 8.7 | 0.5 | CCB Main CR1 Failed |
| Al | 27 | 1 | No Gas | 0.113 | 49.3 | 34476 | 1.6 | 5 | |
| Si | 28 | 1 | No Gas | 14.607 | 4.1 | 273967 | 1.1 | 10 | CCB Main CR1 Failed |
| Ag | 107 | 1 | No Gas | 0.001 | 179.6 | 313 | 19.5 | 2.5 | |
| Cd | 111 | 1 | No Gas | 0.001 | 197.9 | -1 | -912.1 | 1 | |
| Sr | 88 | 1 | No Gas | 0.000 | -1393.5 | 1863 | 8.6 | 2.5 | |
| Mo | 95 | 1 | No Gas | 0.055 | 8.8 | 610 | 7.5 | 2.5 | |
| Sn | 118 | 1 | No Gas | -0.105 | -10.9 | 5435 | 3.7 | 5 | |
| Sb | 121 | 1 | No Gas | 0.037 | 23.0 | 1397 | 13.2 | 2.5 | |
| Ba | 137 | 1 | No Gas | -0.020 | -14.7 | 410 | 6.5 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.061 | 49.4 | 4141 | 42.1 | 1 | |
| Tl | 203 | 1 | No Gas | 0.056 | 42.4 | 1643 | 35.4 | 1 | |
| Pb | 208 | 1 | No Gas | 0.006 | 15.6 | 2623 | 3.2 | 2.5 | |
| U | 238 | 1 | No Gas | 0.004 | 21.0 | 1703 | 4.4 | 2.5 | |
| Ca | 43 | 2 | He | 19.033 | 102.1 | 87 | 53.3 | 100 | |
| Sb | 121 | 2 | He | 0.037 | 27.1 | 573 | 15.8 | 2.5 | |
| Ti | 47 | 2 | He | -0.050 | -51.2 | 7 | 86.6 | 2.5 | |
| Cu | 63 | 1 | No Gas | 0.177 | 4.3 | 3894 | 3.1 | 2.5 | |
| Se | 82 | 1 | No Gas | -0.231 | -83.2 | 323 | 17.0 | 2 | |
| Zr | 90 | 1 | No Gas | 0.128 | 14.1 | 4588 | 10.9 | 2.5 | |
| Zr | 90 | 2 | He | 0.087 | 19.4 | 2334 | 8.5 | 2.5 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 767261 | 0.47 | 789601 | 97.17 | 70 | 120 | |
| Ge | 72 | 2 | He | 829909 | 1.31 | 909952 | 91.20 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2967505 | 0.70 | 3202767 | 92.65 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

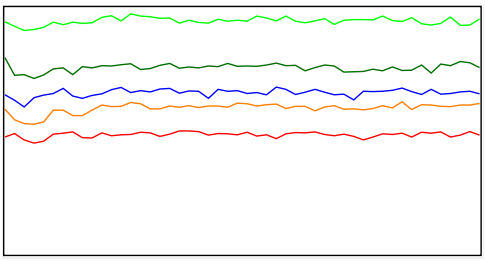
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 4060227 | 0.43 | 4425209 | 91.75 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4491873 | 0.52 | 4898592 | 91.70 | 70 | 120 | |

# Tune Check Report

| | |
|---|---|
| **Operator Name** | ALSHS NoUser |
| **Acq/Data Batch** | C:\Agilent\ICPMH\1\DATA\062824A.b |
| **Acq. Date-Time** | 6/28/2024 9:33:05 AM |
| **Report Comment** | --- |
| **Instrument Name** | G8422A SG22121190 |

**[No Gas]**

**Sensitivity**



| | |
|---|---|
| Sampling Period [sec] | 0.514 |
| Integration Time [sec] | 0.1 |

| Mass | Range | Count | Resp [cps/(ug/L)] | Resp (Required) [cps/(ug/L)] | Resp (Flag) |
|---|---|---|---|---|---|
| 9 | 10000 | 4844 | 48435.36 | | |
| 24 | 20000 | 18921 | 189212.91 | | |
| 59 | 50000 | 32728 | 327275.41 | | |
| 115 | 100000 | 59215 | 592154.09 | | |
| 208 | 50000 | 37844 | 378439.09 | | |

| Mass | Resp Ratio | Resp Ratio (Required) | Resp Ratio (Flag) |
|---|---|---|---|
| 9 | | - | |
| 24 | | - | |
| 59 | | - | |
| 115 | | - | |
| 208 | | - | |

| Mass | RSD% | RSD% (Required) | RSD% (Flag) |
|---|---|---|---|
| 9 | 2.249 | 5.000 | |
| 24 | 1.532 | 5.000 | |
| 59 | 2.266 | 5.000 | |
| 115 | 3.479 | 5.000 | |
| 208 | 2.113 | 5.000 | |

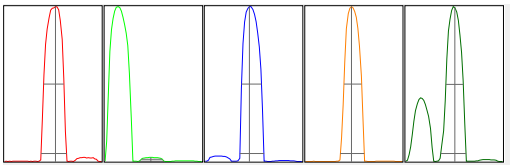
| Mass | Background | Background (Required) | Background (Flag) |
|---|---|---|---|
| 9 | 1.500 | | |
| 24 | 2.200 | | |
| 59 | 1.000 | | |
| 115 | 1.400 | | |
| 208 | 2.700 | | |

**Oxide/Doubly Charged Ratio**

| | |
|---|---|
| Oxide | 156 / 140 1.088 % |
| Doubly Charged | 70 / 140 0.749 % |

# Tune Check Report

### Resolution/Axis



| | |
|---|---|
| Integration Time [sec] | 0.1 |
| Acquisition Time [sec] | 37.4 |
| Y Axis | Linear |

| Mass | Peak Height | Axis | Axis (Required) | Axis (Flag) |
|---|---|---|---|---|
| 9 | 4928.66 | 9.10 | 8.90 - 9.10 | |
| 24 | 19018.93 | 23.95 | 23.90 - 24.10 | |
| 59 | 33134.84 | 58.90 | 58.90 - 59.10 | |
| 115 | 60732.01 | 114.95 | 114.90 - 115.10 | |
| 208 | 37498.26 | 208.05 | 207.90 - 208.10 | |

| Mass | W-50% | W-5% | W-5% (Required) | W-5% (Flag) |
|---|---|---|---|---|
| 9 | 0.62 | 0.779 | | |
| 24 | 0.64 | 0.747 | | |
| 59 | 0.61 | 0.739 | | |
| 115 | 0.53 | 0.727 | | |
| 208 | 0.54 | 0.772 | | |

### Tune Parameters

#### Plasma Parameters

| | | | | | |
|---|---|---|---|---|---|
| Plasma Mode | --- | Nebulizer Gas | 0.78 L/min | Dilution Gas | 0.30 L/min |
| RF Power | 1600 W | Option Gas | --- | Auxiliary Gas | 0.90 L/min |
| RF Matching | 1.40 V | Nebulizer Pump | 0.10 rps | Plasma Gas | 15.0 L/min |
| Sample Depth | 10.0 mm | S/C Temp | 2 °C | | |

#### Lens Parameters

| | | | | | |
|---|---|---|---|---|---|
| Extract 1 | 0.0 V | Omega Lens | 9.5 V | Deflect | 14.8 V |
| Extract 2 | -195.0 V | Cell Entrance | -30 V | Plate Bias | -35 V |
| Omega Bias | -95 V | Cell Exit | -50 V | | |

#### Cell Parameters

| | | | | | |
|---|---|---|---|---|---|
| Use Gas | No | 3rd Gas Flow | --- | Energy Discrimination | 5.0 V |
| He Flow | 0.0 mL/min | OctP Bias | -8.0 V | | |
| H2 Flow | 0.0 mL/min | OctP RF | 200 V | | |

#### QP Parameters

| | | | | | |
|---|---|---|---|---|---|
| Mass Gain | 124 | Axis Gain | 0.9993 | QP Bias | -3.0 V |
| Mass Offset | 126 | Axis Offset | 0.10 | | |

### Hardware Settings

#### Torch

| | | | |
|---|---|---|---|
| Torch H | 0.0 mm | Torch V | -0.4 mm |

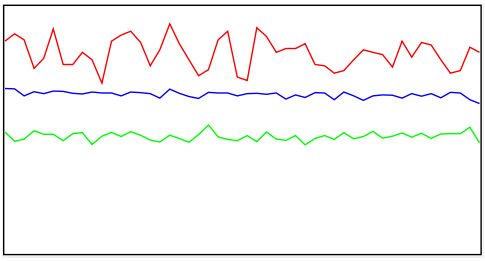
#### EM

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 2.9 mV | Analog HV | 2151 V | Pulse HV | 918 V |

**[He]**

# Tune Check Report

**Sensitivity**



Sampling Period [sec] 0.306
Integration Time [sec] 0.1

| Mass | Range | Count | Resp [cps/(ug/L)] | Resp (Required) [cps/(ug/L)] | Resp (Flag) |
|---|---|---|---|---|---|
| 9 | 200 | 162 | 1621.69 | | |
| 24 | 2000 | 947 | 9472.56 | | |
| 59 | 20000 | 12875 | 128750.58 | | |

| Mass | Resp Ratio | Resp Ratio (Required) | Resp Ratio (Flag) |
|---|---|---|---|
| 9 | | - | |
| 24 | | - | |
| 59 | | - | |

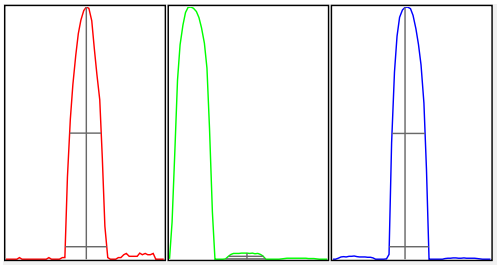
| Mass | RSD% | RSD% (Required) | RSD% (Flag) |
|---|---|---|---|
| 9 | 7.555 | 5.000 | Fail |
| 24 | 3.580 | 5.000 | |
| 59 | 1.910 | 5.000 | |

| Mass | Background | Background (Required) | Background (Flag) |
|---|---|---|---|
| 9 | 0.300 | | |
| 24 | 0.600 | | |
| 59 | 0.100 | | |

**Oxide/Doubly Charged Ratio**

Oxide 156 / 140 1.534 %
Doubly Charged 70 / 140 0.747 %

**Resolution/Axis**



Integration Time [sec] 0.1
Acquisition Time [sec] 22.24
Y Axis Linear

| Mass | Peak Height | Axis | Axis (Required) | Axis (Flag) |
|---|---|---|---|---|
| 9 | 172.27 | 9.05 | 8.90 - 9.10 | |
| 24 | 918.32 | 24.00 | 23.90 - 24.10 | |
| 59 | 13024.31 | 58.90 | 58.90 - 59.10 | |

| Mass | W-50% | W-5% | W-5% (Required) | W-5% (Flag) |
|---|---|---|---|---|
| 9 | 0.59 | 0.775 | | |
| 24 | 0.65 | 0.744 | | |

# Tune Check Report

| Mass | W-50% | W-5% | W-5% (Required) | W-5% (Flag) |
|---|---|---|---|---|
| 59 | 0.62 | 0.740 | | |

## Tune Parameters

### Plasma Parameters

| | | | | | |
|---|---|---|---|---|---|
| Plasma Mode | --- | Nebulizer Gas | 0.78 L/min | Dilution Gas | 0.30 L/min |
| RF Power | 1600 W | Option Gas | --- | Auxiliary Gas | 0.90 L/min |
| RF Matching | 1.40 V | Nebulizer Pump | 0.10 rps | Plasma Gas | 15.0 L/min |
| Sample Depth | 10.0 mm | S/C Temp | 2 °C | | |

### Lens Parameters

| | | | | | |
|---|---|---|---|---|---|
| Extract 1 | 0.0 V | Omega Lens | 8.5 V | Deflect | 0.2 V |
| Extract 2 | -190.0 V | Cell Entrance | -40 V | Plate Bias | -80 V |
| Omega Bias | -90 V | Cell Exit | -65 V | | |

### Cell Parameters

| | | | | | |
|---|---|---|---|---|---|
| Use Gas | Yes | 3rd Gas Flow | --- | Energy Discrimination | 4.0 V |
| He Flow | 4.0 mL/min | OctP Bias | -22.0 V | | |
| H2 Flow | 0.0 mL/min | OctP RF | 180 V | | |

### QP Parameters

| | | | | | |
|---|---|---|---|---|---|
| Mass Gain | 124 | Axis Gain | 0.9993 | QP Bias | -18.0 V |
| Mass Offset | 126 | Axis Offset | 0.10 | | |

## Hardware Settings

### Torch

| | | | |
|---|---|---|---|
| Torch H | 0.0 mm | Torch V | -0.4 mm |

### EM

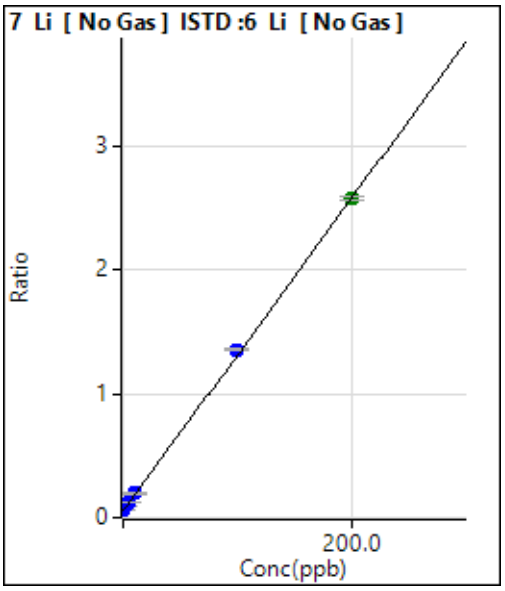
| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 2.9 mV | Analog HV | 2151 V | Pulse HV | 918 V |

Calibration for 245_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070124A.b\
Analysis File: 070124A.batch.bin
DA Date-Time: 7/1/2024 11:22:18 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 238CALB.d | CAL BLK | 7/1/2024 11:01:34 PM |
| 2 | 239CALS.d | 2/10/200 | 7/1/2024 11:04:06 PM |
| 3 | 240CALS.d | 5/25/500 | 7/1/2024 11:06:37 PM |
| 4 | 241CALS.d | 10/50/100 | 7/1/2024 11:09:08 PM |
| 5 | 242CALS.d | 100/500/10K | 7/1/2024 11:11:39 PM |
| 6 | 243CALS.d | 200/1000/20K | 7/1/2024 11:14:09 PM |

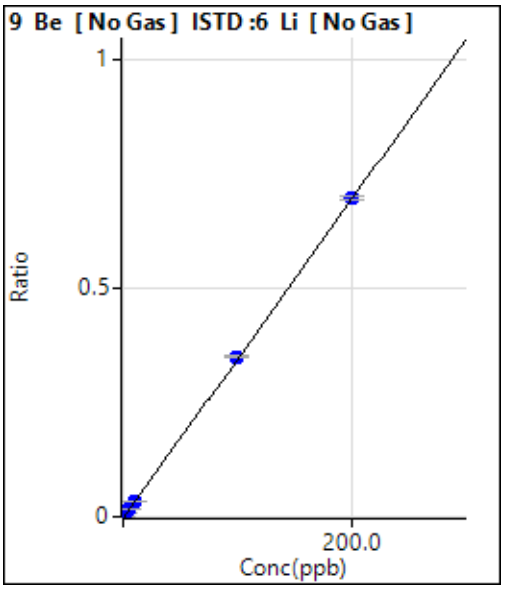
Calibration for 245_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 24881.76 | 0.0663 | P | 1.3 | |
| 2 | ☐ | 2.000 | 1.821 | 33078.26 | 0.0893 | P | 1.3 | -8.9 |
| 3 | ☐ | 5.000 | 4.953 | 47609.17 | 0.1289 | P | 0.3 | -0.9 |
| 4 | ☐ | 10.000 | 10.162 | 71156.42 | 0.1948 | P | 0.7 | 1.6 |
| 5 | ☐ | 100.000 | 102.243 | 471659.90 | 1.3593 | P | 0.9 | 2.2 |
| 6 | ☐ | 200.000 | 198.873 | 856518.29 | 2.5813 | A | 1.0 | -0.6 |

y = 0.0126 * x + 0.0663
R = 0.9999
DL = 0.2065 ppb
BEC = 5.239 ppb

Weight: <None>
Min Conc: <None>

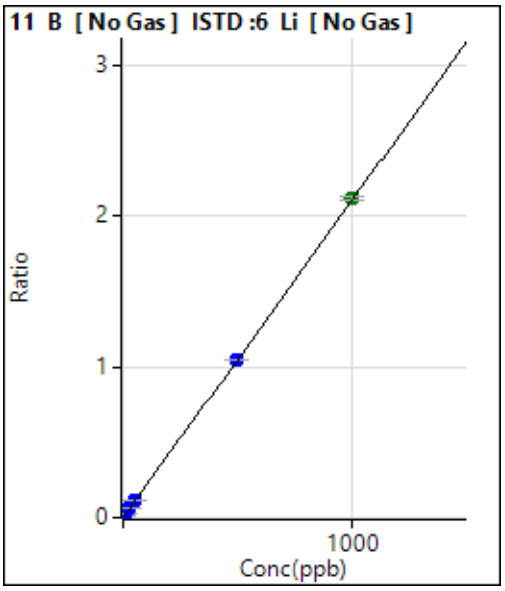



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 11.67 | 0.0000 | P | 25.4 | |
| 2 | ☐ | 2.000 | 1.905 | 2470.25 | 0.0067 | P | 7.7 | -4.8 |
| 3 | ☐ | 5.000 | 4.797 | 6186.40 | 0.0167 | P | 4.2 | -4.1 |
| 4 | ☐ | 10.000 | 9.714 | 12377.11 | 0.0339 | P | 3.0 | -2.9 |
| 5 | ☐ | 100.000 | 100.354 | 121328.83 | 0.3496 | P | 1.5 | 0.4 |
| 6 | ☐ | 200.000 | 199.844 | 231031.73 | 0.6963 | P | 1.3 | -0.1 |

y = 0.0035 * x + 3.1099E-005
R = 1.0000
DL = 0.006813 ppb
BEC = 0.008927 ppb

Weight: <None>
Min Conc: <None>

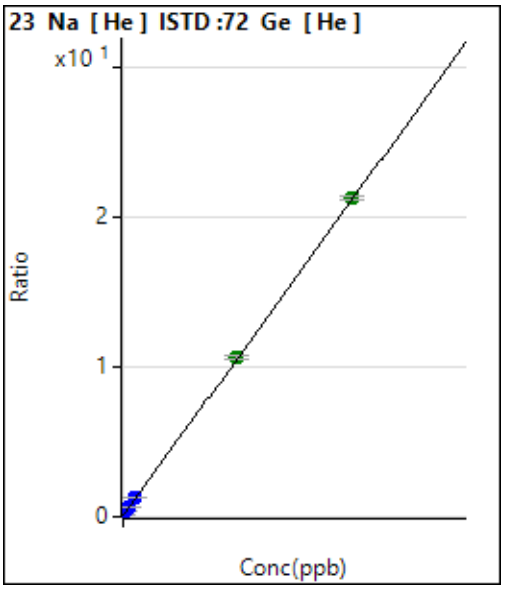
Calibration for 245_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 4138.97 | 0.0110 | P | 1.3 | |
| 2 | ☐ | 10.000 | 9.325 | 11332.94 | 0.0306 | P | 1.9 | -6.8 |
| 3 | ☐ | 25.000 | 24.085 | 22743.28 | 0.0616 | P | 0.4 | -3.7 |
| 4 | ☐ | 50.000 | 50.046 | 42401.33 | 0.1161 | P | 1.1 | 0.1 |
| 5 | ☐ | 500.000 | 493.281 | 363063.29 | 1.0463 | P | 0.3 | -1.3 |
| 6 | ☐ | 1000.000 | 1003.387 | 702437.15 | 2.1170 | A | 1.0 | 0.3 |

y = 0.0021 * x + 0.0110
R = 1.0000
DL = 0.1981 ppb
BEC = 5.251 ppb

Weight: <None>
Min Conc: <None>

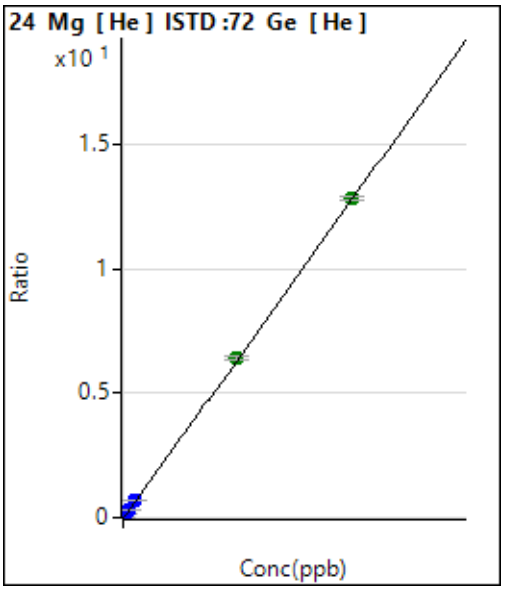



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 89811.84 | 0.1747 | P | 2.9 | |
| 2 | ☐ | 200.000 | 179.929 | 188069.36 | 0.3646 | P | 2.2 | -10.0 |
| 3 | ☐ | 500.000 | 467.392 | 346075.41 | 0.6679 | P | 2.3 | -6.5 |
| 4 | ☐ | 1000.000 | 1000.495 | 631368.24 | 1.2303 | P | 0.9 | 0.0 |
| 5 | ☐ | 10000.00 | 9937.263 | 5410946.79 | 10.6593 | A | 1.5 | -0.6 |
| 6 | ☐ | 20000.00 | 20032.35 | 10487071.09 | 21.3103 | A | 0.9 | 0.2 |

y = 0.0011 * x + 0.1747
R = 1.0000
DL = 14.4 ppb
BEC = 165.6 ppb

Weight: <None>
Min Conc: <None>

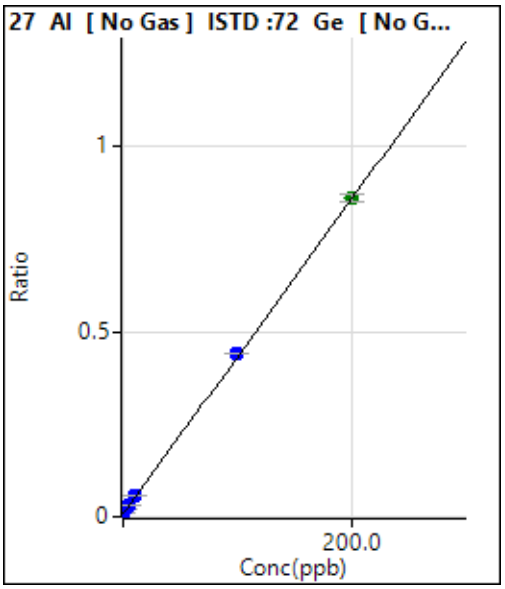
Calibration for 245_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 5004.31 | 0.0097 | P | 6.0 | |
| 2 | ☐ | 200.000 | 202.027 | 72013.42 | 0.1396 | P | 3.2 | 1.0 |
| 3 | ☐ | 500.000 | 507.386 | 174048.56 | 0.3359 | P | 1.7 | 1.5 |
| 4 | ☐ | 1000.000 | 1049.717 | 351264.41 | 0.6845 | P | 1.4 | 5.0 |
| 5 | ☐ | 10000.00 | 9999.029 | 3267586.93 | 6.4369 | A | 1.7 | 0.0 |
| 6 | ☐ | 20000.00 | 19997.79 | 6330484.70 | 12.8639 | A | 0.7 | 0.0 |

y = 6.4278E-004 * x + 0.0097
R = 1.0000
DL = 2.725 ppb
BEC = 15.15 ppb

Weight: <None>
Min Conc: <None>

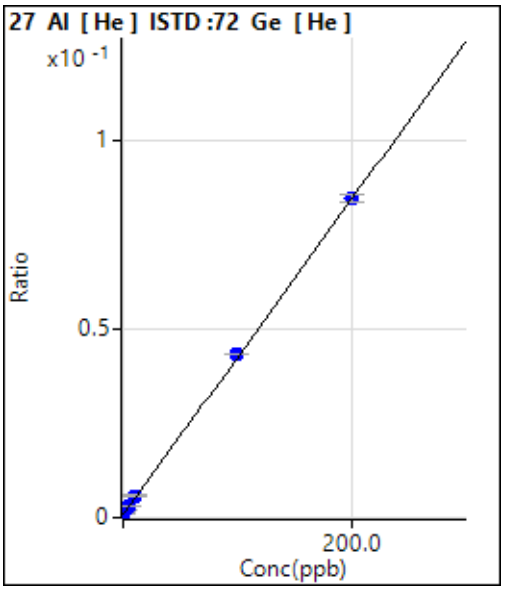



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 20188.09 | 0.0116 | P | 1.8 | |
| 2 | ☐ | 2.000 | 2.108 | 35765.62 | 0.0206 | P | 2.5 | 5.4 |
| 3 | ☐ | 5.000 | 4.882 | 56168.64 | 0.0324 | P | 1.4 | -2.4 |
| 4 | ☐ | 10.000 | 10.488 | 96955.90 | 0.0563 | P | 2.1 | 4.9 |
| 5 | ☐ | 100.000 | 100.819 | 736661.00 | 0.4410 | P | 1.1 | 0.8 |
| 6 | ☐ | 200.000 | 199.568 | 1395797.58 | 0.8616 | A | 1.8 | -0.2 |

y = 0.0043 * x + 0.0116
R = 1.0000
DL = 0.1465 ppb
BEC = 2.722 ppb

Weight: <None>
Min Conc: <None>

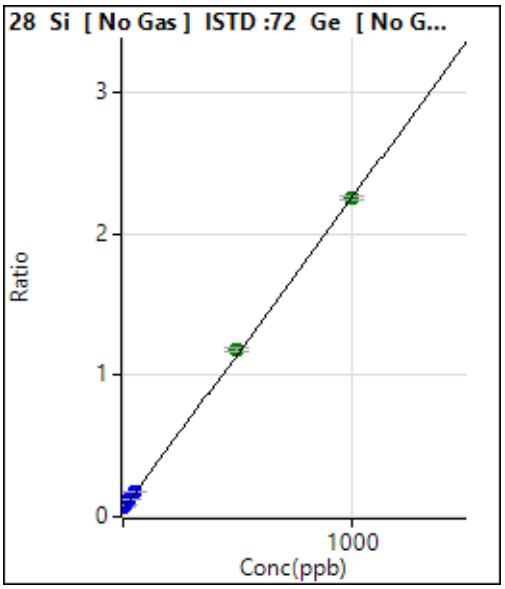
Calibration for 245_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 606.69 | 0.0012 | P | 19.3 | |
| 2 | ☐ | 2.000 | 2.097 | 1060.06 | 0.0021 | P | 13.4 | 4.8 |
| 3 | ☐ | 5.000 | 4.971 | 1686.80 | 0.0033 | P | 3.2 | -0.6 |
| 4 | ☐ | 10.000 | 10.985 | 2960.37 | 0.0058 | P | 5.2 | 9.8 |
| 5 | ☐ | 100.000 | 100.817 | 21980.82 | 0.0433 | P | 0.3 | 0.8 |
| 6 | ☐ | 200.000 | 199.542 | 41605.18 | 0.0845 | P | 2.0 | -0.2 |

y = 4.1777E-004 * x + 0.0012
R = 1.0000
DL = 1.633 ppb
BEC = 2.821 ppb

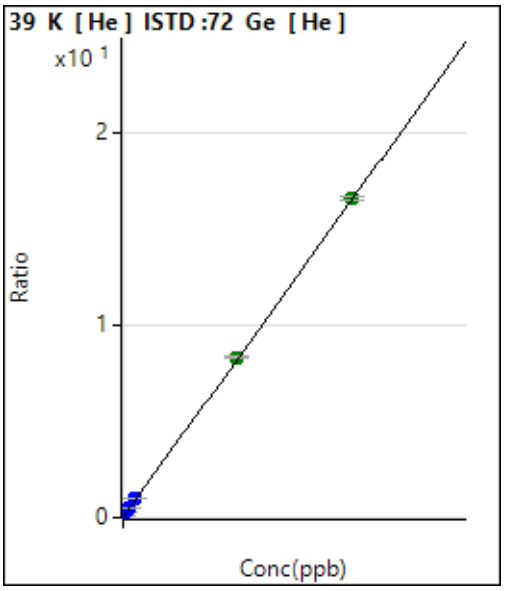
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 110360.48 | 0.0634 | P | 0.5 | |
| 2 | ☐ | 10.000 | 10.432 | 150090.59 | 0.0863 | P | 0.7 | 4.3 |
| 3 | ☐ | 25.000 | 25.465 | 207096.65 | 0.1194 | P | 0.7 | 1.9 |
| 4 | ☐ | 50.000 | 52.207 | 307142.76 | 0.1782 | P | 1.5 | 4.4 |
| 5 | ☐ | 500.000 | 509.214 | 1977078.04 | 1.1836 | A | 1.7 | 1.8 |
| 6 | ☐ | 1000.000 | 995.267 | 3649629.84 | 2.2528 | A | 1.6 | -0.5 |

y = 0.0022 * x + 0.0634
R = 0.9999
DL = 0.4207 ppb
BEC = 28.82 ppb

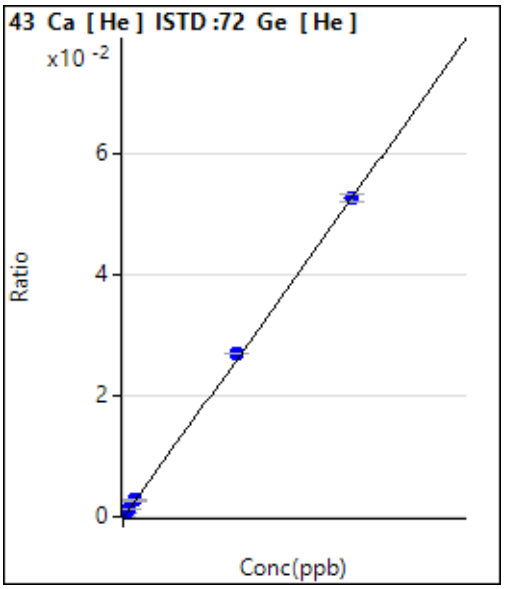
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 54275.76 | 0.1056 | P | 2.0 | |
| 2 | ☐ | 200.000 | 201.446 | 140026.12 | 0.2714 | P | 1.3 | 0.7 |
| 3 | ☐ | 500.000 | 508.889 | 271815.72 | 0.5245 | P | 1.6 | 1.8 |
| 4 | ☐ | 1000.000 | 1057.448 | 500935.66 | 0.9761 | P | 1.1 | 5.7 |
| 5 | ☐ | 10000.00 | 9966.243 | 4218624.83 | 8.3102 | A | 1.0 | -0.3 |
| 6 | ☐ | 20000.00 | 20013.76 | 8160084.25 | 16.5817 | A | 0.6 | 0.1 |

y = 8.2324E-004 * x + 0.1056
R = 1.0000
DL = 7.622 ppb
BEC = 128.3 ppb

Weight: <None>
Min Conc: <None>

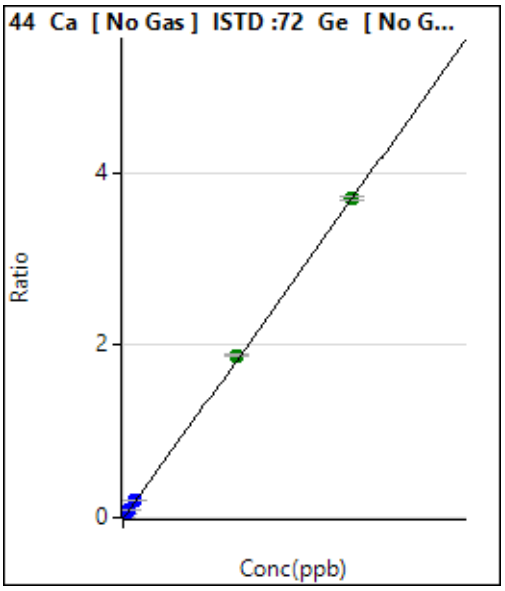



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 36.67 | 0.0001 | P | 31.8 | |
| 2 | ☐ | 200.000 | 195.812 | 303.34 | 0.0006 | P | 29.7 | -2.1 |
| 3 | ☐ | 500.000 | 426.665 | 620.03 | 0.0012 | P | 7.4 | -14.7 |
| 4 | ☐ | 1000.000 | 1015.366 | 1410.10 | 0.0027 | P | 9.8 | 1.5 |
| 5 | ☐ | 10000.00 | 10151.71 | 13626.85 | 0.0268 | P | 0.4 | 1.5 |
| 6 | ☐ | 20000.00 | 19925.25 | 25894.33 | 0.0526 | P | 2.7 | -0.4 |

y = 2.6370E-006 * x + 7.1377E-005
R = 0.9999
DL = 25.79 ppb
BEC = 27.07 ppb

Weight: <None>
Min Conc: <None>

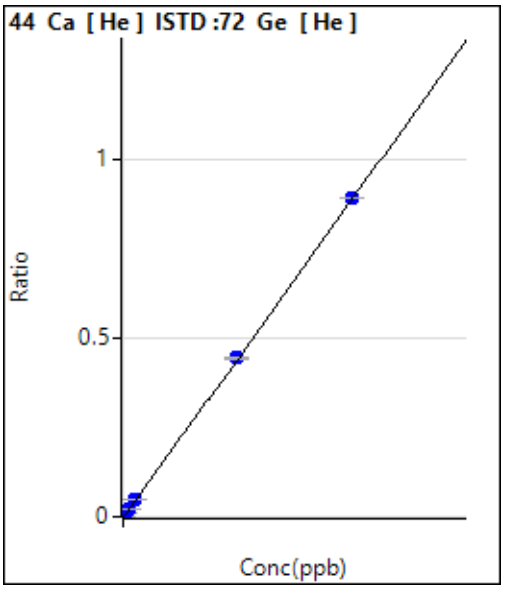
Calibration for 245_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 8139.22 | 0.0047 | P | 3.9 | |
| 2 | ☐ | 200.000 | 200.474 | 72699.22 | 0.0418 | P | 3.1 | 0.2 |
| 3 | ☐ | 500.000 | 503.485 | 169906.15 | 0.0980 | P | 2.5 | 0.7 |
| 4 | ☐ | 1000.000 | 1033.577 | 338084.20 | 0.1962 | P | 2.0 | 3.4 |
| 5 | ☐ | 10000.00 | 10093.48 | 3132037.04 | 1.8750 | A | 1.2 | 0.9 |
| 6 | ☐ | 20000.00 | 19951.48 | 5996844.08 | 3.7017 | A | 1.7 | -0.2 |

y = 1.8530E-004 * x + 0.0047
R = 1.0000
DL = 2.933 ppb
BEC = 25.23 ppb

Weight: <None>
Min Conc: <None>

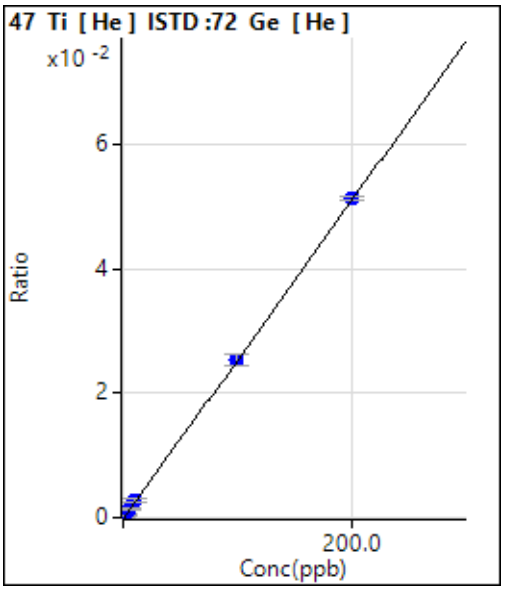



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 460.01 | 0.0009 | P | 7.9 | |
| 2 | ☐ | 200.000 | 202.011 | 5094.36 | 0.0099 | P | 6.1 | 1.0 |
| 3 | ☐ | 500.000 | 501.811 | 12025.37 | 0.0232 | P | 1.7 | 0.4 |
| 4 | ☐ | 1000.000 | 1043.037 | 24261.46 | 0.0473 | P | 3.6 | 4.3 |
| 5 | ☐ | 10000.00 | 9957.606 | 225204.54 | 0.4436 | P | 1.6 | -0.4 |
| 6 | ☐ | 20000.00 | 20018.98 | 438461.24 | 0.8910 | P | 0.5 | 0.1 |

y = 4.4462E-005 * x + 8.9464E-004
R = 1.0000
DL = 4.771 ppb
BEC = 20.12 ppb

Weight: <None>
Min Conc: <None>

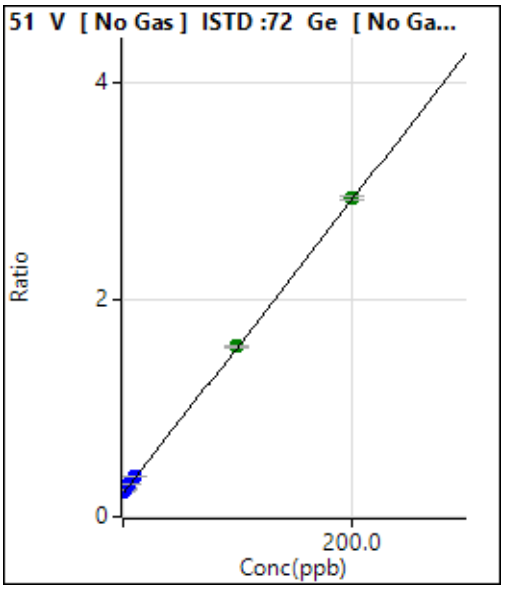
Calibration for 245_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6.67 | 0.0000 | P | 86.6 | |
| 2 | ☐ | 2.000 | 1.812 | 246.68 | 0.0005 | P | 8.5 | -9.4 |
| 3 | ☐ | 5.000 | 5.111 | 686.69 | 0.0013 | P | 15.5 | 2.2 |
| 4 | ☐ | 10.000 | 10.869 | 1440.11 | 0.0028 | P | 16.4 | 8.7 |
| 5 | ☐ | 100.000 | 99.097 | 12919.57 | 0.0255 | P | 7.0 | -0.9 |
| 6 | ☐ | 200.000 | 200.407 | 25330.03 | 0.0515 | P | 1.5 | 0.2 |

y = 2.5677E-004 * x + 1.3060E-005
R = 1.0000
DL = 0.1321 ppb
BEC = 0.05086 ppb

Weight: <None>
Min Conc: <None>

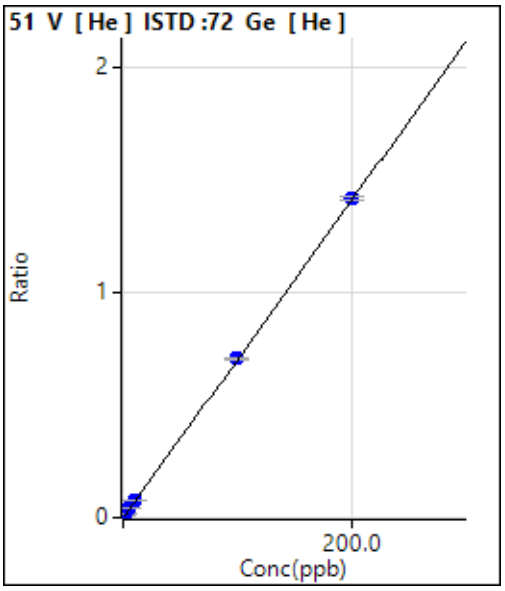



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 399680.88 | 0.2296 | P | 1.1 | |
| 2 | ☐ | 2.000 | 1.998 | 446059.52 | 0.2566 | P | 0.7 | -0.1 |
| 3 | ☐ | 5.000 | 4.790 | 510436.71 | 0.2943 | P | 0.7 | -4.2 |
| 4 | ☐ | 10.000 | 10.396 | 637735.45 | 0.3701 | P | 1.4 | 4.0 |
| 5 | ☐ | 100.000 | 99.137 | 2621482.02 | 1.5694 | A | 1.6 | -0.9 |
| 6 | ☐ | 200.000 | 200.417 | 4759850.91 | 2.9381 | A | 1.6 | 0.2 |

y = 0.0135 * x + 0.2296
R = 1.0000
DL = 0.5565 ppb
BEC = 16.99 ppb

Weight: <None>
Min Conc: <None>

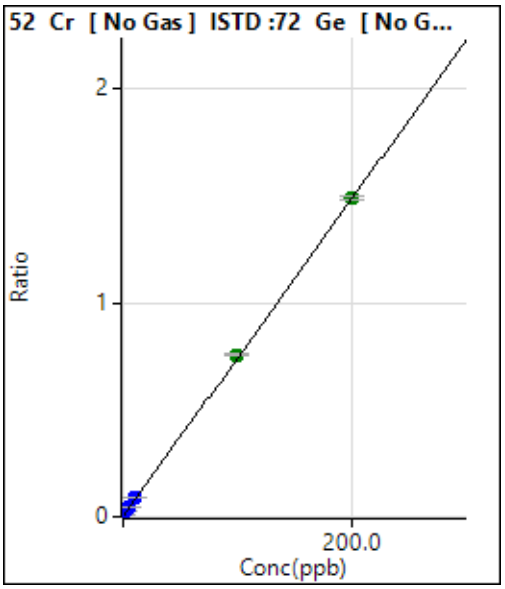
Calibration for 245_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2788.08 | 0.0054 | P | 1.1 | |
| 2 | ☐ | 2.000 | 1.936 | 9842.42 | 0.0191 | P | 1.9 | -3.2 |
| 3 | ☐ | 5.000 | 4.958 | 20930.26 | 0.0404 | P | 0.8 | -0.8 |
| 4 | ☐ | 10.000 | 10.368 | 40305.06 | 0.0785 | P | 1.6 | 3.7 |
| 5 | ☐ | 100.000 | 99.407 | 358614.45 | 0.7064 | P | 1.7 | -0.6 |
| 6 | ☐ | 200.000 | 200.280 | 697718.01 | 1.4178 | P | 0.9 | 0.1 |

y = 0.0071 * x + 0.0054
R = 1.0000
DL = 0.02536 ppb
BEC = 0.7691 ppb

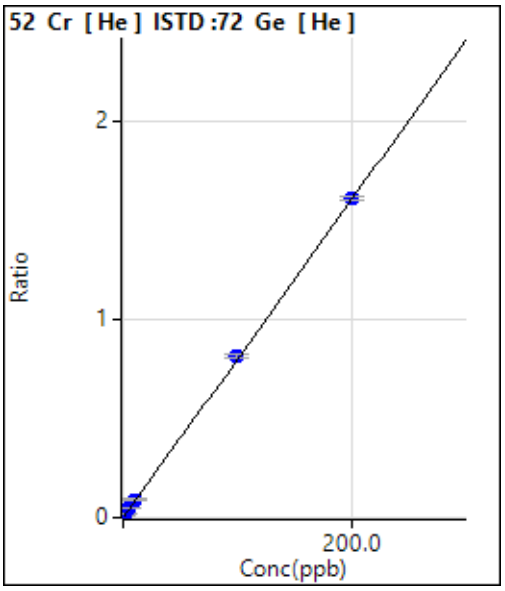
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 17070.79 | 0.0098 | P | 3.6 | |
| 2 | ☐ | 2.000 | 1.900 | 41552.55 | 0.0239 | P | 1.8 | -5.0 |
| 3 | ☐ | 5.000 | 5.065 | 82172.81 | 0.0474 | P | 2.3 | 1.3 |
| 4 | ☐ | 10.000 | 10.418 | 150068.83 | 0.0871 | P | 2.1 | 4.2 |
| 5 | ☐ | 100.000 | 100.615 | 1263137.14 | 0.7562 | A | 1.2 | 0.6 |
| 6 | ☐ | 200.000 | 199.671 | 2415473.77 | 1.4910 | A | 1.7 | -0.2 |

y = 0.0074 * x + 0.0098
R = 1.0000
DL = 0.1434 ppb
BEC = 1.322 ppb

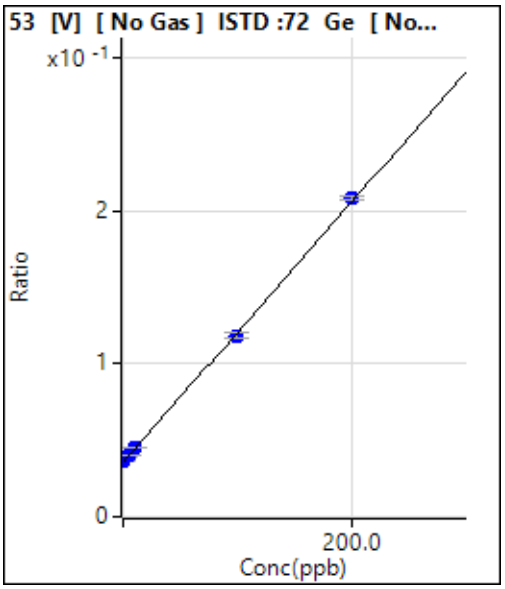
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3693.89 | 0.0072 | P | 4.8 | |
| 2 | ☐ | 2.000 | 2.044 | 12165.51 | 0.0236 | P | 4.4 | 2.2 |
| 3 | ☐ | 5.000 | 5.010 | 24541.95 | 0.0474 | P | 0.7 | 0.2 |
| 4 | ☐ | 10.000 | 10.499 | 46885.84 | 0.0914 | P | 1.6 | 5.0 |
| 5 | ☐ | 100.000 | 100.413 | 412368.24 | 0.8124 | P | 2.0 | 0.4 |
| 6 | ☐ | 200.000 | 199.768 | 791829.21 | 1.6090 | P | 1.3 | -0.1 |

y = 0.0080 * x + 0.0072
R = 1.0000
DL = 0.1282 ppb
BEC = 0.8966 ppb

Weight: <None>
Min Conc: <None>

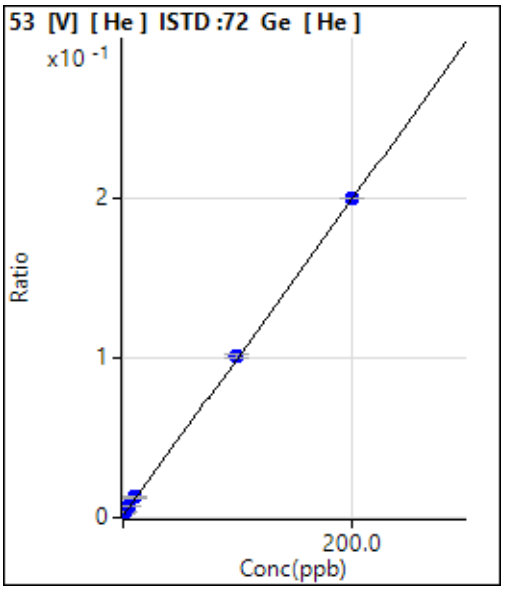



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 64138.26 | 0.0368 | P | 2.0 | |
| 2 | ☐ | 2.000 | 2.409 | 67615.02 | 0.0389 | P | 1.4 | 20.4 |
| 3 | ☐ | 5.000 | 4.323 | 70278.36 | 0.0405 | P | 1.4 | -13.5 |
| 4 | ☐ | 10.000 | 10.056 | 78234.27 | 0.0454 | P | 1.6 | 0.6 |
| 5 | ☐ | 100.000 | 96.195 | 198261.10 | 0.1187 | P | 2.4 | -3.8 |
| 6 | ☐ | 200.000 | 201.912 | 338010.49 | 0.2086 | P | 1.4 | 1.0 |

y = 8.5087E-004 * x + 0.0368
R = 0.9997
DL = 2.596 ppb
BEC = 43.3 ppb

Weight: <None>
Min Conc: <None>

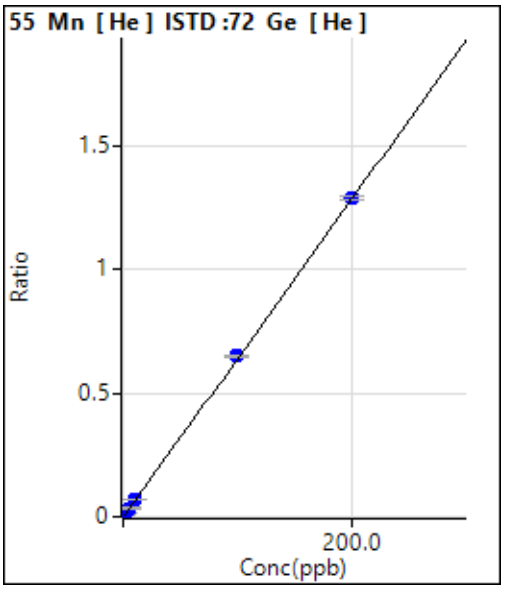
Calibration for 245_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1133.40 | 0.0022 | P | 8.5 | |
| 2 | ☐ | 2.000 | 1.925 | 2116.87 | 0.0041 | P | 3.1 | -3.8 |
| 3 | ☐ | 5.000 | 4.958 | 3677.22 | 0.0071 | P | 6.8 | -0.8 |
| 4 | ☐ | 10.000 | 10.618 | 6504.99 | 0.0127 | P | 6.8 | 6.2 |
| 5 | ☐ | 100.000 | 100.151 | 51275.22 | 0.1010 | P | 1.8 | 0.2 |
| 6 | ☐ | 200.000 | 199.895 | 98132.61 | 0.1994 | P | 0.5 | -0.1 |

y = 9.8655E-004 * x + 0.0022
R = 1.0000
DL = 0.5725 ppb
BEC = 2.235 ppb

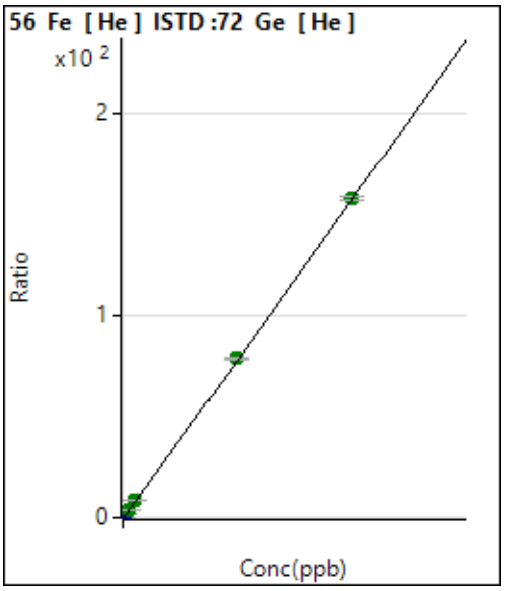
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2060.19 | 0.0040 | P | 5.6 | |
| 2 | ☐ | 2.000 | 2.032 | 8809.60 | 0.0171 | P | 2.6 | 1.6 |
| 3 | ☐ | 5.000 | 4.772 | 17981.97 | 0.0347 | P | 2.2 | -4.6 |
| 4 | ☐ | 10.000 | 10.370 | 36281.17 | 0.0707 | P | 1.9 | 3.7 |
| 5 | ☐ | 100.000 | 100.234 | 329327.39 | 0.6487 | P | 1.4 | 0.2 |
| 6 | ☐ | 200.000 | 199.870 | 634661.59 | 1.2897 | P | 0.8 | -0.1 |

y = 0.0064 * x + 0.0040
R = 1.0000
DL = 0.1049 ppb
BEC = 0.6228 ppb

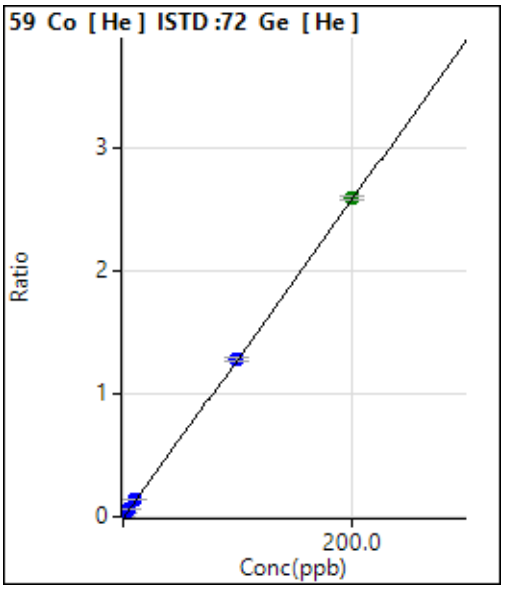
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 8973.05 | 0.0175 | P | 5.9 | |
| 2 | ☐ | 200.000 | 196.029 | 809359.60 | 1.5689 | P | 1.2 | -2.0 |
| 3 | ☐ | 500.000 | 502.275 | 2068938.51 | 3.9926 | A | 2.5 | 0.5 |
| 4 | ☐ | 1000.000 | 1046.301 | 4258503.17 | 8.2983 | A | 1.1 | 4.6 |
| 5 | ☐ | 10000.00 | 9974.741 | 40083851.90 | 78.9612 | A | 1.4 | -0.3 |
| 6 | ☐ | 20000.00 | 20010.29 | 77945733.84 | 158.386 | A | 1.0 | 0.1 |

y = 0.0079 * x + 0.0175
R = 1.0000
DL = 0.3925 ppb
BEC = 2.206 ppb

Weight: <None>
Min Conc: <None>

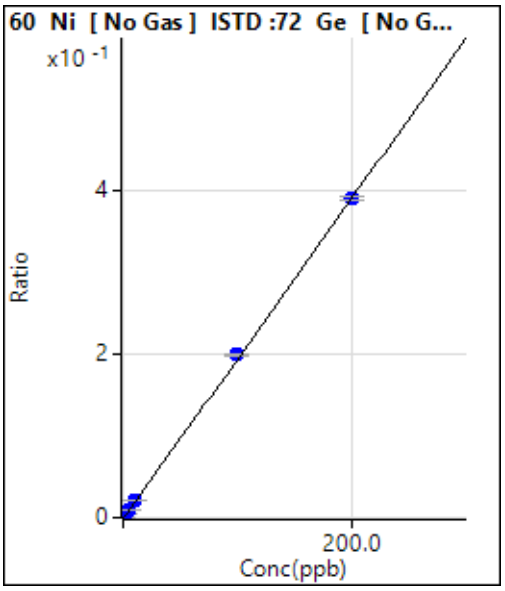



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 63.33 | 0.0001 | P | 19.3 | |
| 2 | ☐ | 2.000 | 1.968 | 13209.81 | 0.0256 | P | 1.6 | -1.6 |
| 3 | ☐ | 5.000 | 5.070 | 34092.34 | 0.0658 | P | 0.6 | 1.4 |
| 4 | ☐ | 10.000 | 10.466 | 69622.04 | 0.1357 | P | 0.9 | 4.7 |
| 5 | ☐ | 100.000 | 99.197 | 652245.51 | 1.2848 | P | 1.8 | -0.8 |
| 6 | ☐ | 200.000 | 200.377 | 1277155.03 | 2.5952 | A | 0.7 | 0.2 |

y = 0.0130 * x + 1.2341E-004
R = 1.0000
DL = 0.005507 ppb
BEC = 0.009528 ppb

Weight: <None>
Min Conc: <None>

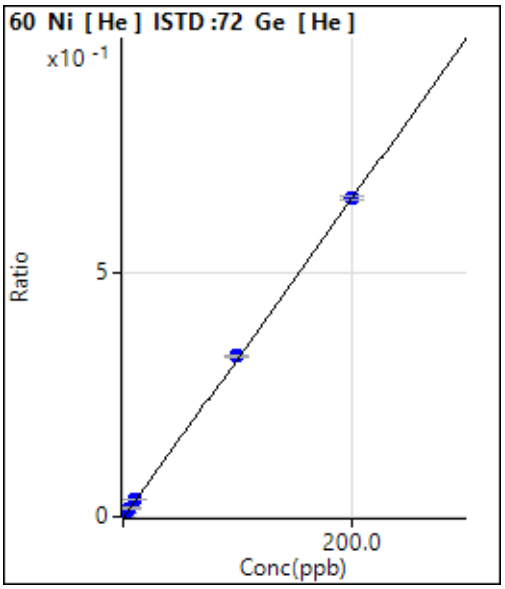
Calibration for 245_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 410.01 | 0.0002 | P | 0.5 | |
| 2 | ☐ | 2.000 | 2.078 | 7512.15 | 0.0043 | P | 2.2 | 3.9 |
| 3 | ☐ | 5.000 | 5.117 | 17855.09 | 0.0103 | P | 1.4 | 2.3 |
| 4 | ☐ | 10.000 | 10.671 | 36558.80 | 0.0212 | P | 0.9 | 6.7 |
| 5 | ☐ | 100.000 | 101.682 | 334332.01 | 0.2001 | P | 1.2 | 1.7 |
| 6 | ☐ | 200.000 | 199.122 | 634606.98 | 0.3917 | P | 0.8 | -0.4 |

y = 0.0020 * x + 2.3551E-004
R = 0.9999
DL = 0.0019 ppb
BEC = 0.1198 ppb

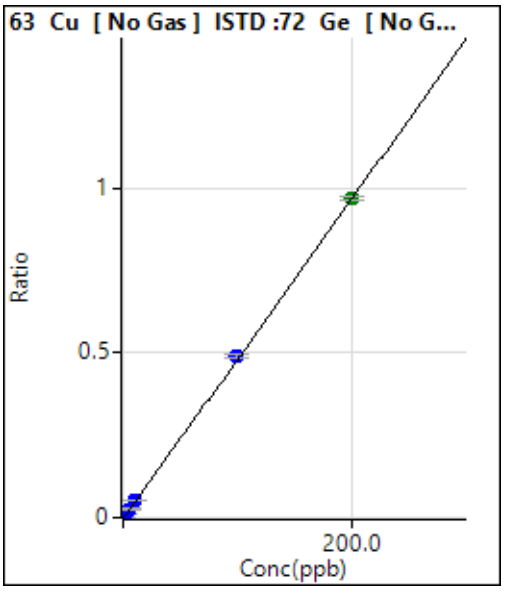
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 106.67 | 0.0002 | P | 19.6 | |
| 2 | ☐ | 2.000 | 1.992 | 3473.85 | 0.0067 | P | 3.0 | -0.4 |
| 3 | ☐ | 5.000 | 5.198 | 8933.07 | 0.0172 | P | 8.1 | 4.0 |
| 4 | ☐ | 10.000 | 10.924 | 18475.98 | 0.0360 | P | 1.2 | 9.2 |
| 5 | ☐ | 100.000 | 100.777 | 167749.85 | 0.3305 | P | 1.4 | 0.8 |
| 6 | ☐ | 200.000 | 199.561 | 321933.79 | 0.6542 | P | 0.9 | -0.2 |

y = 0.0033 * x + 2.0752E-004
R = 1.0000
DL = 0.03717 ppb
BEC = 0.06333 ppb

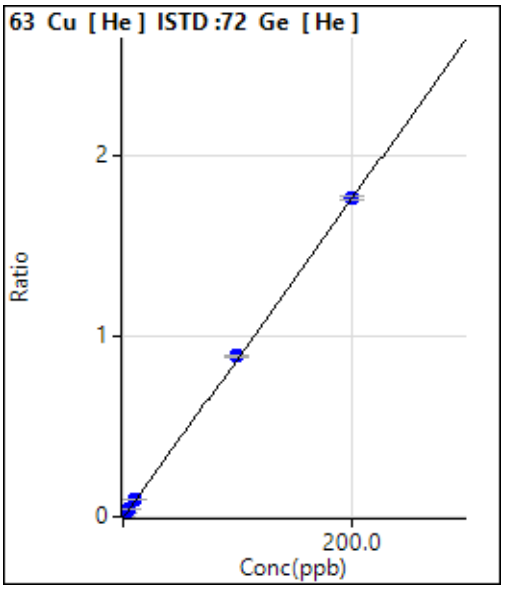
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1210.07 | 0.0007 | P | 15.7 | |
| 2 | ☐ | 2.000 | 2.084 | 18796.43 | 0.0108 | P | 3.6 | 4.2 |
| 3 | ☐ | 5.000 | 5.253 | 45445.21 | 0.0262 | P | 1.7 | 5.1 |
| 4 | ☐ | 10.000 | 10.539 | 89386.02 | 0.0519 | P | 1.3 | 5.4 |
| 5 | ☐ | 100.000 | 100.994 | 820408.81 | 0.4911 | P | 1.9 | 1.0 |
| 6 | ☐ | 200.000 | 199.469 | 1570343.62 | 0.9693 | A | 1.1 | -0.3 |

y = 0.0049 * x + 6.9541E-004
R = 1.0000
DL = 0.06738 ppb
BEC = 0.1432 ppb

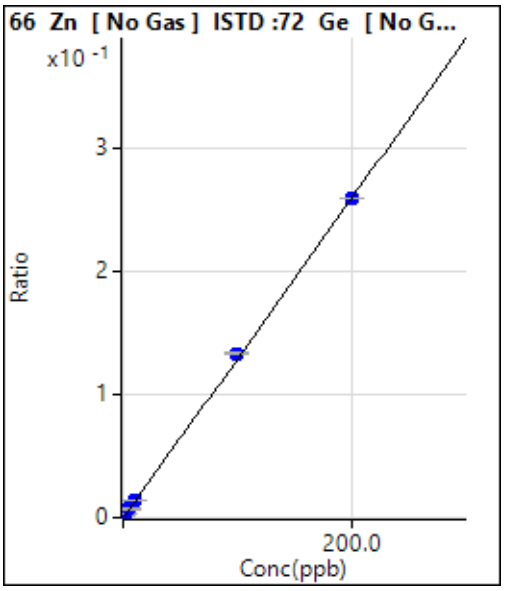
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 490.02 | 0.0010 | P | 15.2 | |
| 2 | ☐ | 2.000 | 2.102 | 10090.54 | 0.0196 | P | 2.7 | 5.1 |
| 3 | ☐ | 5.000 | 5.160 | 24164.77 | 0.0466 | P | 2.2 | 3.2 |
| 4 | ☐ | 10.000 | 10.561 | 48468.79 | 0.0945 | P | 2.4 | 5.6 |
| 5 | ☐ | 100.000 | 100.659 | 452889.35 | 0.8921 | P | 1.2 | 0.7 |
| 6 | ☐ | 200.000 | 199.637 | 870302.41 | 1.7685 | P | 1.1 | -0.2 |

y = 0.0089 * x + 9.5232E-004
R = 1.0000
DL = 0.04906 ppb
BEC = 0.1076 ppb

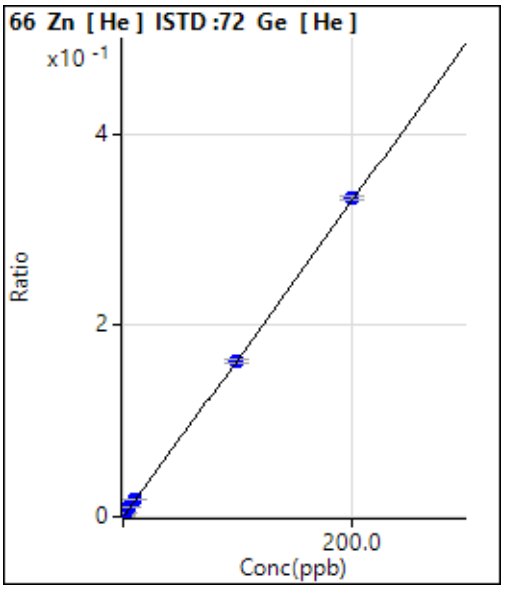
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1556.78 | 0.0009 | P | 7.9 | |
| 2 | ☐ | 2.000 | 2.081 | 6244.87 | 0.0036 | P | 2.3 | 4.1 |
| 3 | ☐ | 5.000 | 4.922 | 12616.00 | 0.0073 | P | 8.5 | -1.6 |
| 4 | ☐ | 10.000 | 10.358 | 24679.09 | 0.0143 | P | 2.5 | 3.6 |
| 5 | ☐ | 100.000 | 101.917 | 222192.61 | 0.1330 | P | 1.8 | 1.9 |
| 6 | ☐ | 200.000 | 199.024 | 419430.32 | 0.2589 | P | 0.6 | -0.5 |

y = 0.0013 * x + 8.9412E-004
R = 0.9999
DL = 0.1643 ppb
BEC = 0.6897 ppb

Weight: <None>
Min Conc: <None>

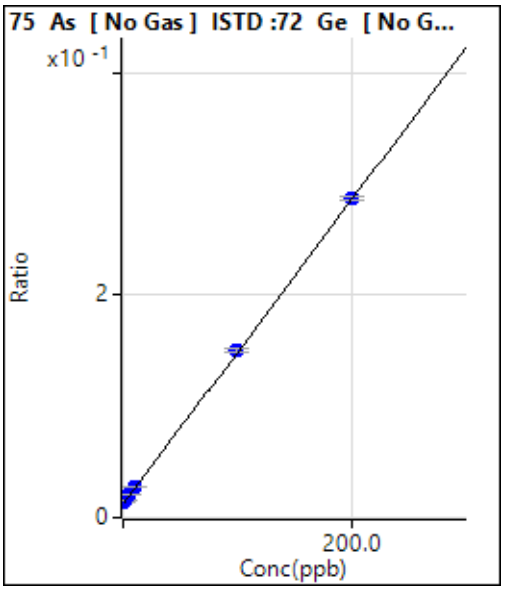



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 550.02 | 0.0011 | P | 20.1 | |
| 2 | ☐ | 2.000 | 1.876 | 2150.22 | 0.0042 | P | 4.1 | -6.2 |
| 3 | ☐ | 5.000 | 5.226 | 5024.34 | 0.0097 | P | 8.7 | 4.5 |
| 4 | ☐ | 10.000 | 10.179 | 9169.91 | 0.0179 | P | 1.7 | 1.8 |
| 5 | ☐ | 100.000 | 97.671 | 82366.08 | 0.1623 | P | 2.6 | -2.3 |
| 6 | ☐ | 200.000 | 201.151 | 163898.57 | 0.3330 | P | 1.2 | 0.6 |

y = 0.0017 * x + 0.0011
R = 0.9999
DL = 0.391 ppb
BEC = 0.6493 ppb

Weight: <None>
Min Conc: <None>

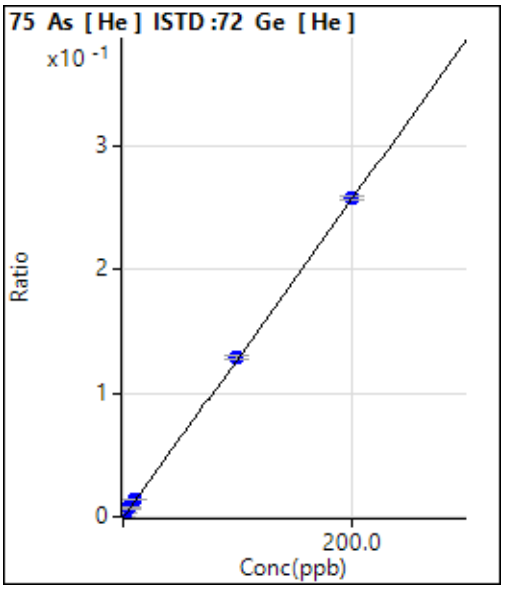
Calibration for 245_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 23554.11 | 0.0135 | P | 1.5 | |
| 2 | ☐ | 2.000 | 1.763 | 27711.97 | 0.0159 | P | 0.2 | -11.8 |
| 3 | ☐ | 5.000 | 4.735 | 34691.19 | 0.0200 | P | 0.8 | -5.3 |
| 4 | ☐ | 10.000 | 10.001 | 46877.45 | 0.0272 | P | 0.5 | 0.0 |
| 5 | ☐ | 100.000 | 100.126 | 251255.67 | 0.1504 | P | 1.5 | 0.1 |
| 6 | ☐ | 200.000 | 199.946 | 464753.97 | 0.2869 | P | 1.1 | 0.0 |

y = 0.0014 * x + 0.0135
R = 1.0000
DL = 0.4394 ppb
BEC = 9.897 ppb

Weight: <None>
Min Conc: <None>

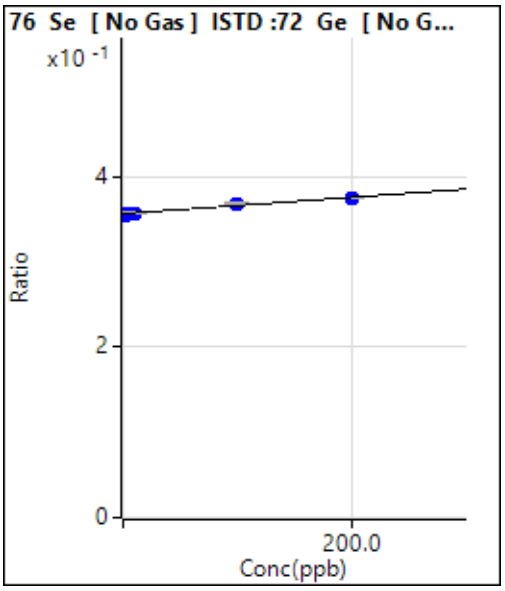



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 171.11 | 0.0003 | P | 32.7 | |
| 2 | ☐ | 2.000 | 1.910 | 1438.97 | 0.0028 | P | 2.8 | -4.5 |
| 3 | ☐ | 5.000 | 5.183 | 3626.05 | 0.0070 | P | 5.1 | 3.7 |
| 4 | ☐ | 10.000 | 10.333 | 6988.48 | 0.0136 | P | 1.1 | 3.3 |
| 5 | ☐ | 100.000 | 99.975 | 65417.87 | 0.1289 | P | 1.7 | 0.0 |
| 6 | ☐ | 200.000 | 199.992 | 126703.49 | 0.2575 | P | 1.3 | 0.0 |

y = 0.0013 * x + 3.3353E-004
R = 1.0000
DL = 0.2548 ppb
BEC = 0.2594 ppb

Weight: <None>
Min Conc: <None>

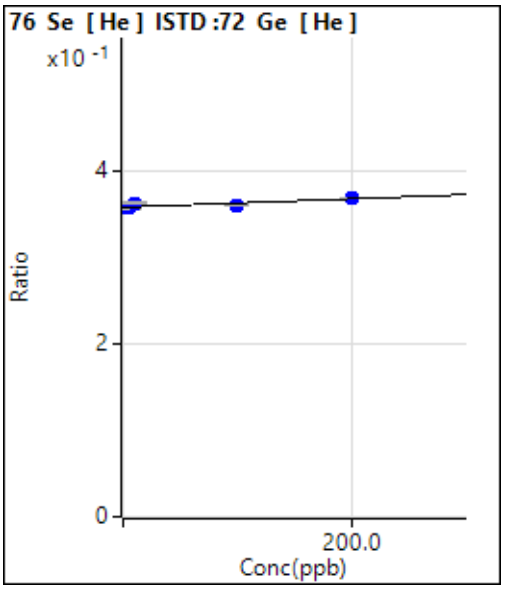
Calibration for 245_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 620746.98 | 0.3566 | P | 0.7 | |
| 2 | ☐ | 2.000 | -16.180 | 617139.69 | 0.3550 | P | 0.5 | -909.0 |
| 3 | ☐ | 5.000 | 1.588 | 618669.44 | 0.3567 | P | 0.3 | -68.2 |
| 4 | ☐ | 10.000 | 3.513 | 615030.53 | 0.3569 | P | 0.5 | -64.9 |
| 5 | ☐ | 100.000 | 127.602 | 616172.95 | 0.3689 | P | 0.4 | 27.6 |
| 6 | ☐ | 200.000 | 186.791 | 606831.40 | 0.3746 | P | 0.6 | -6.6 |

y = 9.6464E-005 * x + 0.3566
R = 0.9822
DL = 73.71 ppb
BEC = 3696 ppb

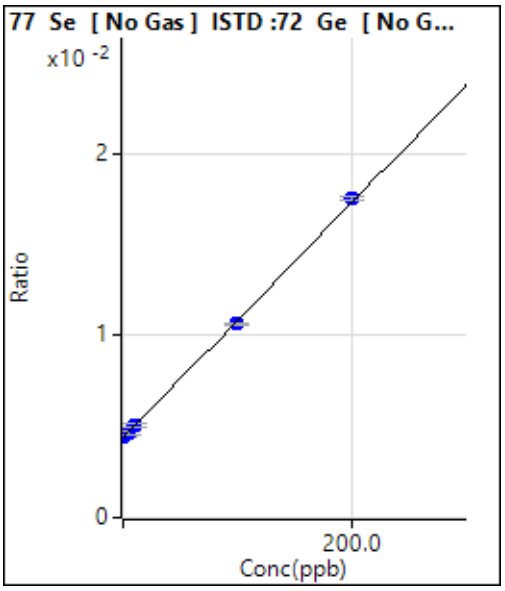
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 184261.38 | 0.3585 | P | 0.8 | |
| 2 | ☐ | 2.000 | 9.971 | 185182.72 | 0.3590 | P | 0.7 | 398.5 |
| 3 | ☐ | 5.000 | 12.707 | 186088.79 | 0.3591 | P | 1.5 | 154.1 |
| 4 | ☐ | 10.000 | 97.701 | 186422.65 | 0.3633 | P | 1.0 | 877.0 |
| 5 | ☐ | 100.000 | 53.699 | 183334.65 | 0.3611 | P | 0.3 | -46.3 |
| 6 | ☐ | 200.000 | 218.493 | 181712.84 | 0.3693 | P | 0.3 | 9.2 |

y = 4.9310E-005 * x + 0.3585
R = 0.8629
DL = 168.1 ppb
BEC = 7270 ppb

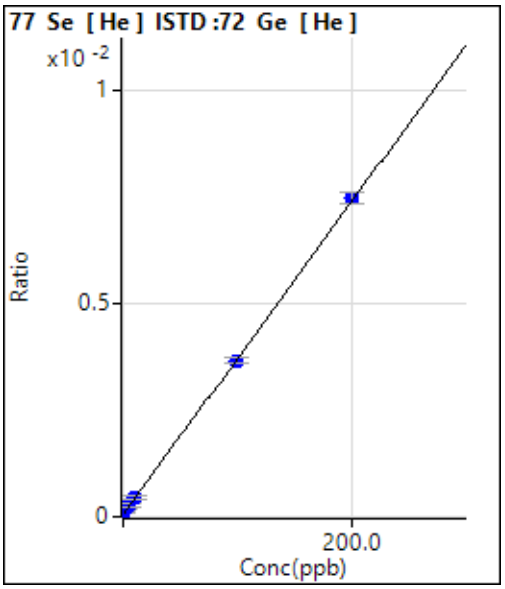
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7802.35 | 0.0045 | P | 2.9 | |
| 2 | ☐ | 2.000 | 0.366 | 7832.39 | 0.0045 | P | 1.8 | -81.7 |
| 3 | ☐ | 5.000 | 2.954 | 8102.55 | 0.0047 | P | 3.4 | -40.9 |
| 4 | ☐ | 10.000 | 9.181 | 8743.01 | 0.0051 | P | 2.7 | -8.2 |
| 5 | ☐ | 100.000 | 95.244 | 17741.75 | 0.0106 | P | 0.6 | -4.8 |
| 6 | ☐ | 200.000 | 202.486 | 28406.57 | 0.0175 | P | 1.4 | 1.2 |

y = 6.4464E-005 * x + 0.0045
R = 0.9996
DL = 6.115 ppb
BEC = 69.52 ppb

Weight: <None>
Min Conc: <None>

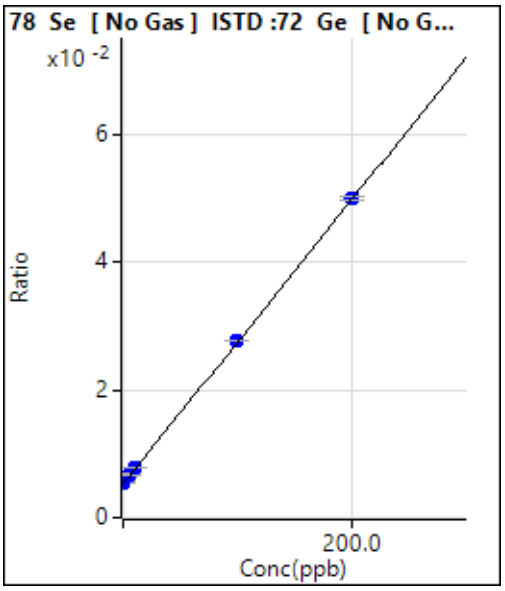



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 46.67 | 0.0001 | P | 49.4 | |
| 2 | ☐ | 2.000 | 2.812 | 100.00 | 0.0002 | P | 9.9 | 40.6 |
| 3 | ☐ | 5.000 | 5.068 | 143.33 | 0.0003 | P | 21.2 | 1.4 |
| 4 | ☐ | 10.000 | 9.382 | 223.34 | 0.0004 | P | 19.3 | -6.2 |
| 5 | ☐ | 100.000 | 97.466 | 1860.17 | 0.0037 | P | 2.7 | -2.5 |
| 6 | ☐ | 200.000 | 201.288 | 3677.23 | 0.0075 | P | 4.0 | 0.6 |

y = 3.6666E-005 * x + 9.0732E-005
R = 0.9999
DL = 3.666 ppb
BEC = 2.475 ppb

Weight: <None>
Min Conc: <None>

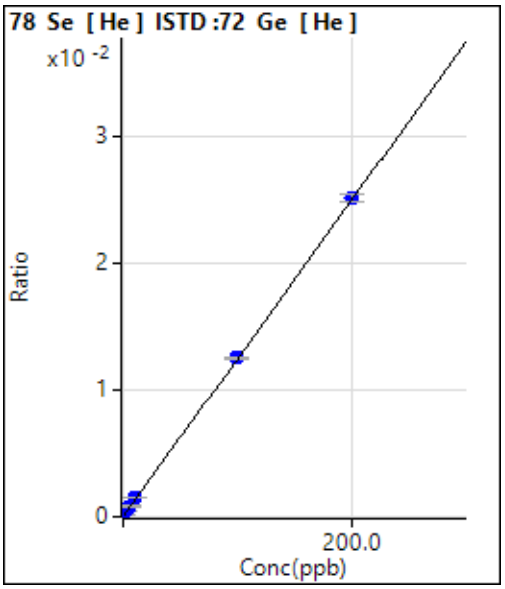
Calibration for 245_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 9623.58 | 0.0055 | P | 2.7 | |
| 2 | ☐ | 2.000 | 3.936 | 11128.10 | 0.0064 | P | 6.3 | 96.8 |
| 3 | ☐ | 5.000 | 5.524 | 11715.22 | 0.0068 | P | 0.6 | 10.5 |
| 4 | ☐ | 10.000 | 10.672 | 13610.34 | 0.0079 | P | 1.1 | 6.7 |
| 5 | ☐ | 100.000 | 99.859 | 46275.31 | 0.0277 | P | 0.2 | -0.1 |
| 6 | ☐ | 200.000 | 200.004 | 80906.15 | 0.0499 | P | 1.5 | 0.0 |

y = 2.2206E-004 * x + 0.0055
R = 1.0000
DL = 2.03 ppb
BEC = 24.9 ppb

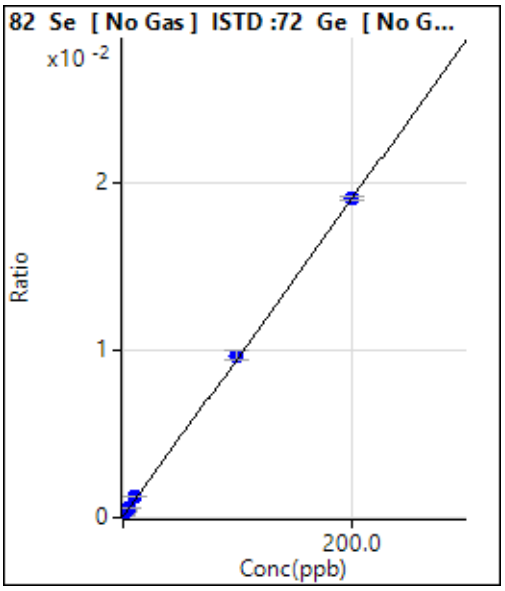
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 73.33 | 0.0001 | P | 4.4 | |
| 2 | ☐ | 2.000 | 2.330 | 223.33 | 0.0004 | P | 8.6 | 16.5 |
| 3 | ☐ | 5.000 | 5.517 | 430.01 | 0.0008 | P | 7.4 | 10.3 |
| 4 | ☐ | 10.000 | 10.547 | 747.35 | 0.0015 | P | 1.9 | 5.5 |
| 5 | ☐ | 100.000 | 99.188 | 6344.16 | 0.0125 | P | 1.5 | -0.8 |
| 6 | ☐ | 200.000 | 200.362 | 12352.94 | 0.0251 | P | 2.7 | 0.2 |

y = 1.2456E-004 * x + 1.4262E-004
R = 1.0000
DL = 0.1515 ppb
BEC = 1.145 ppb

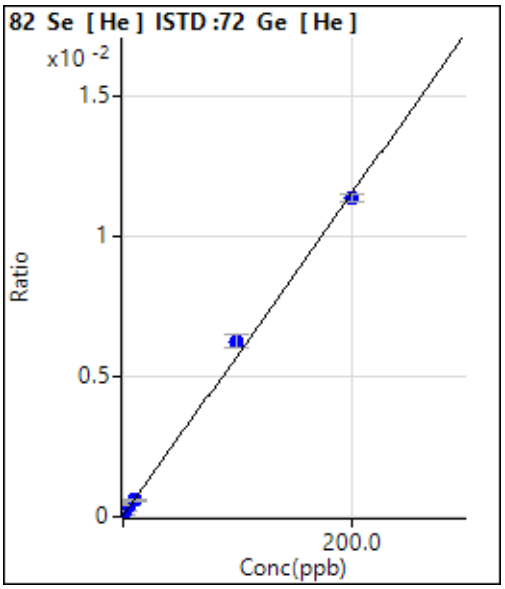
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 263.34 | 0.0002 | P | 30.3 | |
| 2 | ☐ | 2.000 | 2.386 | 656.70 | 0.0004 | P | 16.6 | 19.3 |
| 3 | ☐ | 5.000 | 4.677 | 1033.39 | 0.0006 | P | 6.4 | -6.5 |
| 4 | ☐ | 10.000 | 11.576 | 2156.88 | 0.0013 | P | 4.6 | 15.8 |
| 5 | ☐ | 100.000 | 100.738 | 16249.98 | 0.0097 | P | 5.8 | 0.7 |
| 6 | ☐ | 200.000 | 199.557 | 30982.30 | 0.0191 | P | 1.1 | -0.2 |

y = 9.5077E-005 * x + 1.5117E-004
R = 1.0000
DL = 1.444 ppb
BEC = 1.59 ppb

Weight: <None>
Min Conc: <None>

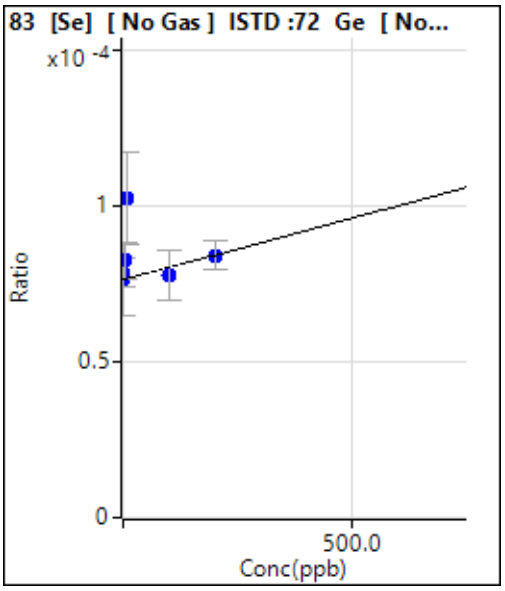



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 43.33 | 0.0001 | P | 26.5 | |
| 2 | ☐ | 2.000 | 2.357 | 113.33 | 0.0002 | P | 13.7 | 17.9 |
| 3 | ☐ | 5.000 | 6.261 | 230.01 | 0.0004 | P | 26.6 | 25.2 |
| 4 | ☐ | 10.000 | 8.932 | 306.68 | 0.0006 | P | 15.2 | -10.7 |
| 5 | ☐ | 100.000 | 107.496 | 3177.11 | 0.0063 | P | 7.6 | 7.5 |
| 6 | ☐ | 200.000 | 196.270 | 5591.25 | 0.0114 | P | 2.0 | -1.9 |

y = 5.7459E-005 * x + 8.4280E-005
R = 0.9990
DL = 1.166 ppb
BEC = 1.467 ppb

Weight: <None>
Min Conc: <None>

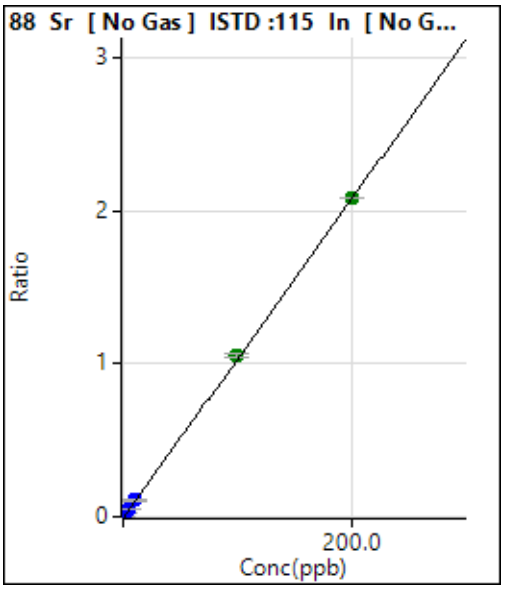
Calibration for 245_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 133.33 | 0.0001 | P | 29.8 | |
| 2 | ☐ | 2.000 | 53.963 | 136.67 | 0.0001 | P | 11.9 | 2598.1 |
| 3 | ☐ | 5.000 | 153.632 | 143.34 | 0.0001 | P | 14.3 | 2972.6 |
| 4 | ☐ | 10.000 | 655.357 | 176.67 | 0.0001 | P | 28.8 | 6453.6 |
| 5 | ☐ | 100.000 | 32.849 | 130.00 | 0.0001 | P | 20.3 | -67.2 |
| 6 | ☐ | 200.000 | 197.072 | 136.67 | 0.0001 | P | 11.1 | -1.5 |

y = 3.9785E-008 * x + 7.6515E-005
R = -0.0765
DL = 1719 ppb
BEC = 1923 ppb

Weight: <None>
Min Conc: <None>

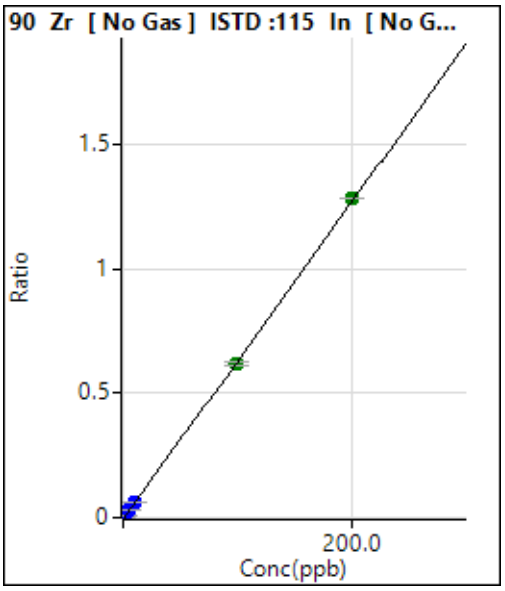



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2263.57 | 0.0008 | P | 8.2 | |
| 2 | ☐ | 2.000 | 1.970 | 60073.19 | 0.0214 | P | 1.9 | -1.5 |
| 3 | ☐ | 5.000 | 5.039 | 149433.19 | 0.0534 | P | 1.7 | 0.8 |
| 4 | ☐ | 10.000 | 10.201 | 299029.08 | 0.1073 | P | 1.8 | 2.0 |
| 5 | ☐ | 100.000 | 100.657 | 2852159.33 | 1.0517 | A | 2.1 | 0.7 |
| 6 | ☐ | 200.000 | 199.661 | 5494751.79 | 2.0853 | A | 0.6 | -0.2 |

y = 0.0104 * x + 8.0838E-004
R = 1.0000
DL = 0.01909 ppb
BEC = 0.07743 ppb

Weight: <None>
Min Conc: <None>

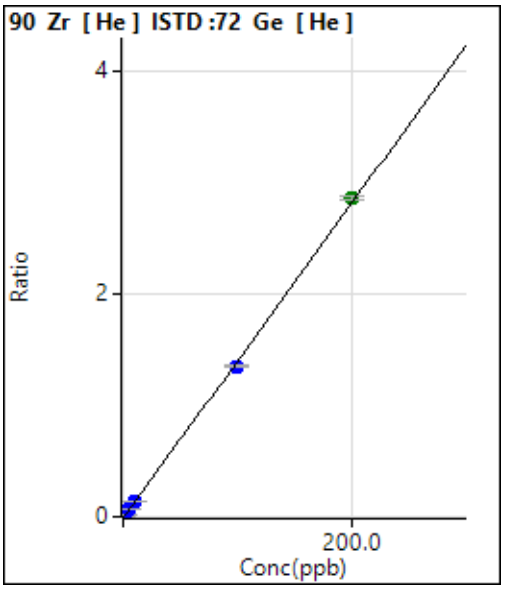
Calibration for 245_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 673.36 | 0.0002 | P | 19.8 | |
| 2 | ☐ | 2.000 | 1.619 | 29719.53 | 0.0106 | P | 1.4 | -19.0 |
| 3 | ☐ | 5.000 | 4.463 | 80361.21 | 0.0287 | P | 2.4 | -10.7 |
| 4 | ☐ | 10.000 | 9.488 | 169429.51 | 0.0608 | P | 1.3 | -5.1 |
| 5 | ☐ | 100.000 | 97.196 | 1682987.22 | 0.6206 | A | 2.2 | -2.8 |
| 6 | ☐ | 200.000 | 201.445 | 3388336.09 | 1.2859 | A | 0.4 | 0.7 |

y = 0.0064 * x + 2.4044E-004
R = 0.9999
DL = 0.02243 ppb
BEC = 0.03767 ppb

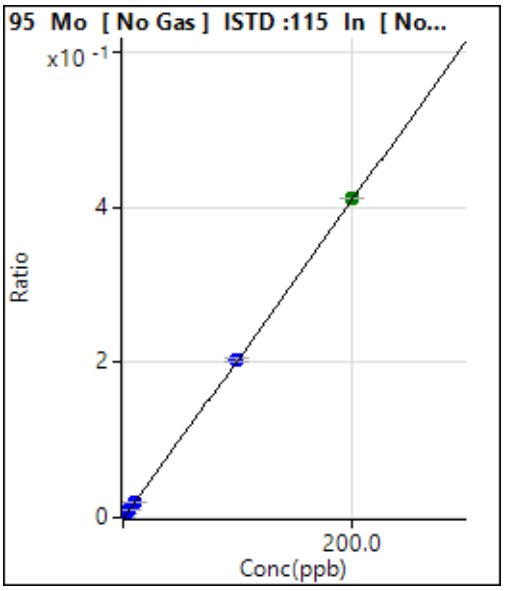
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 930.05 | 0.0018 | P | 10.3 | |
| 2 | ☐ | 2.000 | 1.581 | 12482.65 | 0.0242 | P | 1.8 | -20.9 |
| 3 | ☐ | 5.000 | 4.329 | 32699.95 | 0.0631 | P | 2.9 | -13.4 |
| 4 | ☐ | 10.000 | 9.537 | 70228.71 | 0.1369 | P | 1.0 | -4.6 |
| 5 | ☐ | 100.000 | 95.473 | 687214.86 | 1.3537 | P | 1.6 | -4.5 |
| 6 | ☐ | 200.000 | 202.308 | 1410682.16 | 2.8666 | A | 0.8 | 1.2 |

y = 0.0142 * x + 0.0018
R = 0.9997
DL = 0.03961 ppb
BEC = 0.1277 ppb

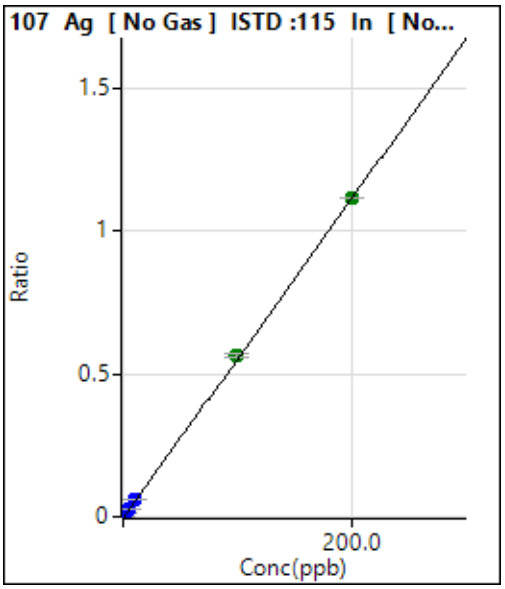
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 63.33 | 0.0000 | P | 59.9 | |
| 2 | ☐ | 2.000 | 1.912 | 11098.07 | 0.0039 | P | 2.1 | -4.4 |
| 3 | ☐ | 5.000 | 4.852 | 27939.22 | 0.0100 | P | 4.1 | -3.0 |
| 4 | ☐ | 10.000 | 9.963 | 57087.48 | 0.0205 | P | 1.6 | -0.4 |
| 5 | ☐ | 100.000 | 98.978 | 551366.78 | 0.2033 | P | 1.5 | -1.0 |
| 6 | ☐ | 200.000 | 200.517 | 1085214.26 | 0.4119 | A | 0.1 | 0.3 |

y = 0.0021 * x + 2.2662E-005
R = 1.0000
DL = 0.01984 ppb
BEC = 0.01103 ppb

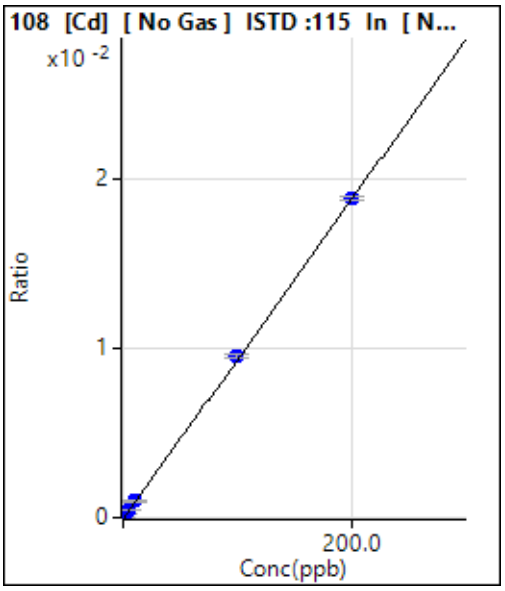
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 213.34 | 0.0001 | P | 38.0 | |
| 2 | ☐ | 2.000 | 2.006 | 31741.26 | 0.0113 | P | 1.8 | 0.3 |
| 3 | ☐ | 5.000 | 5.116 | 80249.64 | 0.0287 | P | 2.8 | 2.3 |
| 4 | ☐ | 10.000 | 10.516 | 164092.89 | 0.0589 | P | 0.6 | 5.2 |
| 5 | ☐ | 100.000 | 101.043 | 1532571.90 | 0.5651 | A | 1.9 | 1.0 |
| 6 | ☐ | 200.000 | 199.450 | 2939070.79 | 1.1154 | A | 0.3 | -0.3 |

y = 0.0056 * x + 7.6203E-005
R = 1.0000
DL = 0.01552 ppb
BEC = 0.01363 ppb

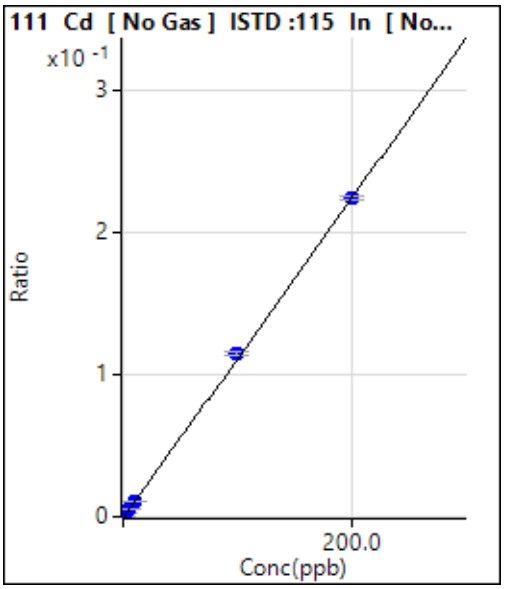
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 10.00 | 0.0000 | P | 100.1 | |
| 2 | ☐ | 2.000 | 2.019 | 546.69 | 0.0002 | P | 8.6 | 1.0 |
| 3 | ☐ | 5.000 | 5.116 | 1363.43 | 0.0005 | P | 8.1 | 2.3 |
| 4 | ☐ | 10.000 | 10.325 | 2730.34 | 0.0010 | P | 12.9 | 3.2 |
| 5 | ☐ | 100.000 | 100.541 | 25795.29 | 0.0095 | P | 2.4 | 0.5 |
| 6 | ☐ | 200.000 | 199.710 | 49776.28 | 0.0189 | P | 1.8 | -0.1 |

y = 9.4571E-005 * x + 3.5823E-006
R = 1.0000
DL = 0.1137 ppb
BEC = 0.03788 ppb

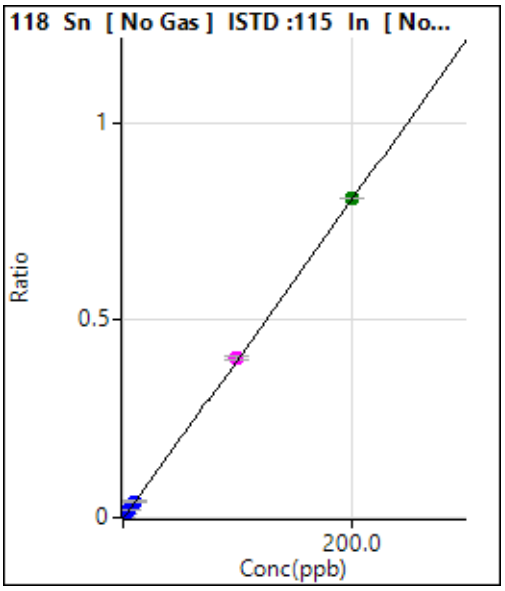
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | -10.73 | 0.0000 | P | -100. | |
| 2 | ☐ | 2.000 | 2.010 | 6345.31 | 0.0023 | P | 7.4 | 0.5 |
| 3 | ☐ | 5.000 | 4.954 | 15584.85 | 0.0056 | P | 7.9 | -0.9 |
| 4 | ☐ | 10.000 | 10.113 | 31702.18 | 0.0114 | P | 0.7 | 1.1 |
| 5 | ☐ | 100.000 | 101.481 | 309669.40 | 0.1142 | P | 2.4 | 1.5 |
| 6 | ☐ | 200.000 | 199.255 | 590770.71 | 0.2242 | P | 1.0 | -0.4 |

y = 0.0011 * x - 3.8438E-006
R = 1.0000
DL = 0.01025 ppb
BEC = -0.003416 ppb

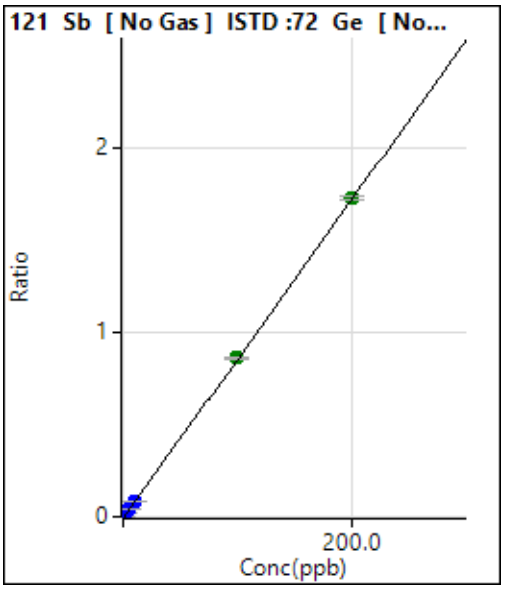
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2506.96 | 0.0009 | P | 7.4 | |
| 2 | ☐ | 2.000 | 1.967 | 24830.17 | 0.0088 | P | 1.8 | -1.7 |
| 3 | ☐ | 5.000 | 4.907 | 57926.11 | 0.0207 | P | 2.5 | -1.9 |
| 4 | ☐ | 10.000 | 9.986 | 114829.83 | 0.0412 | P | 2.8 | -0.1 |
| 5 | ☐ | 100.000 | 99.805 | 1095066.44 | 0.4038 | M | 1.9 | -0.2 |
| 6 | ☐ | 200.000 | 200.101 | 2130819.97 | 0.8087 | A | 0.4 | 0.1 |

y = 0.0040 * x + 8.9546E-004
R = 1.0000
DL = 0.04892 ppb
BEC = 0.2218 ppb

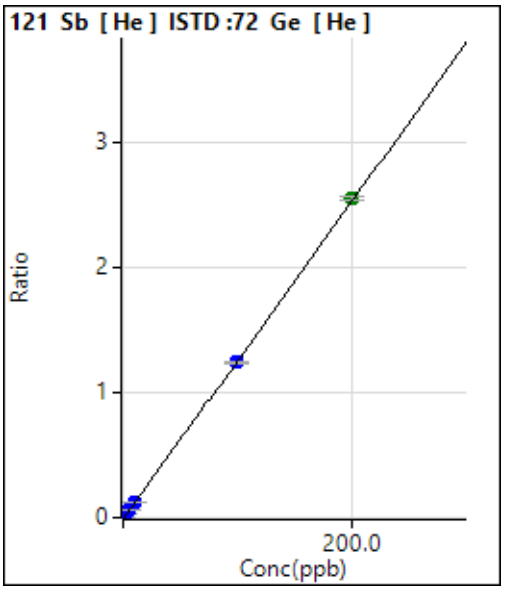
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 403.35 | 0.0002 | P | 18.8 | |
| 2 | ☐ | 2.000 | 1.922 | 29192.41 | 0.0168 | P | 2.3 | -3.9 |
| 3 | ☐ | 5.000 | 4.888 | 73459.44 | 0.0424 | P | 2.0 | -2.2 |
| 4 | ☐ | 10.000 | 10.032 | 149396.74 | 0.0867 | P | 1.3 | 0.3 |
| 5 | ☐ | 100.000 | 99.796 | 1437131.07 | 0.8603 | A | 1.5 | -0.2 |
| 6 | ☐ | 200.000 | 200.104 | 2794363.50 | 1.7249 | A | 1.2 | 0.1 |

y = 0.0086 * x + 2.3157E-004
R = 1.0000
DL = 0.01518 ppb
BEC = 0.02687 ppb

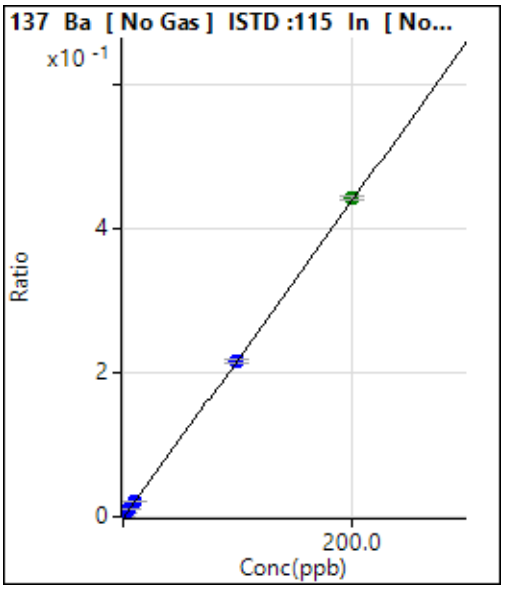
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 166.67 | 0.0003 | P | 13.9 | |
| 2 | ☐ | 2.000 | 1.886 | 12536.22 | 0.0243 | P | 5.1 | -5.7 |
| 3 | ☐ | 5.000 | 4.748 | 31447.56 | 0.0607 | P | 1.7 | -5.0 |
| 4 | ☐ | 10.000 | 10.028 | 65588.77 | 0.1278 | P | 1.1 | 0.3 |
| 5 | ☐ | 100.000 | 97.794 | 631232.70 | 1.2435 | P | 1.8 | -2.2 |
| 6 | ☐ | 200.000 | 201.109 | 1258280.01 | 2.5569 | A | 0.9 | 0.6 |

y = 0.0127 * x + 3.2390E-004
R = 0.9999
DL = 0.01065 ppb
BEC = 0.02548 ppb

Weight: <None>
Min Conc: <None>

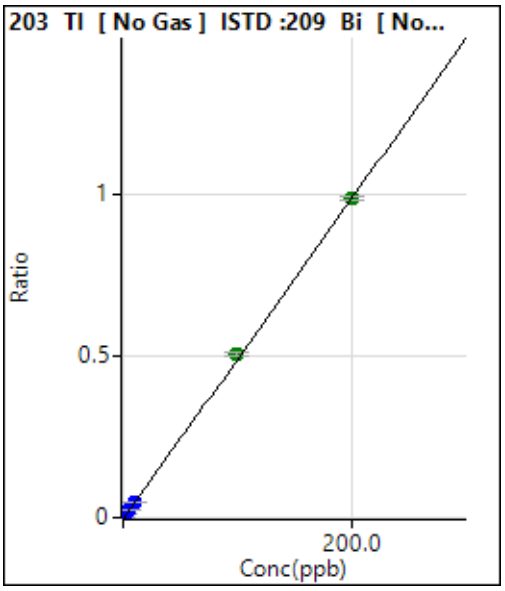



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 693.36 | 0.0002 | P | 3.6 | |
| 2 | ☐ | 2.000 | 1.864 | 12225.89 | 0.0044 | P | 1.8 | -6.8 |
| 3 | ☐ | 5.000 | 4.862 | 30636.03 | 0.0110 | P | 1.7 | -2.8 |
| 4 | ☐ | 10.000 | 9.901 | 61430.28 | 0.0220 | P | 3.3 | -1.0 |
| 5 | ☐ | 100.000 | 97.916 | 585228.18 | 0.2158 | P | 1.7 | -2.1 |
| 6 | ☐ | 200.000 | 201.052 | 1166860.63 | 0.4428 | A | 0.7 | 0.5 |

y = 0.0022 * x + 2.4770E-004
R = 0.9999
DL = 0.01231 ppb
BEC = 0.1125 ppb

Weight: <None>
Min Conc: <None>

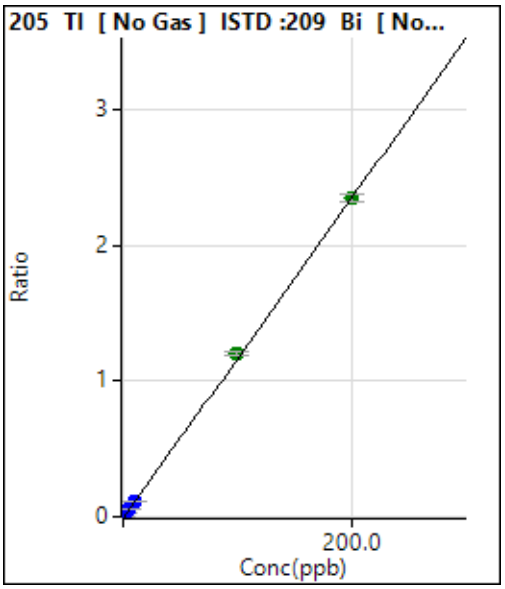
Calibration for 245_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 143.34 | 0.0000 | P | 38.0 | |
| 2 | ☐ | 2.000 | 2.145 | 36690.35 | 0.0107 | P | 2.3 | 7.2 |
| 3 | ☐ | 5.000 | 5.168 | 87884.74 | 0.0257 | P | 2.3 | 3.4 |
| 4 | ☐ | 10.000 | 9.962 | 170357.50 | 0.0496 | P | 1.7 | -0.4 |
| 5 | ☐ | 100.000 | 101.631 | 1685249.19 | 0.5052 | A | 2.6 | 1.6 |
| 6 | ☐ | 200.000 | 199.181 | 3222455.57 | 0.9902 | A | 1.5 | -0.4 |

y = 0.0050 * x + 4.1690E-005
R = 1.0000
DL = 0.009571 ppb
BEC = 0.008387 ppb

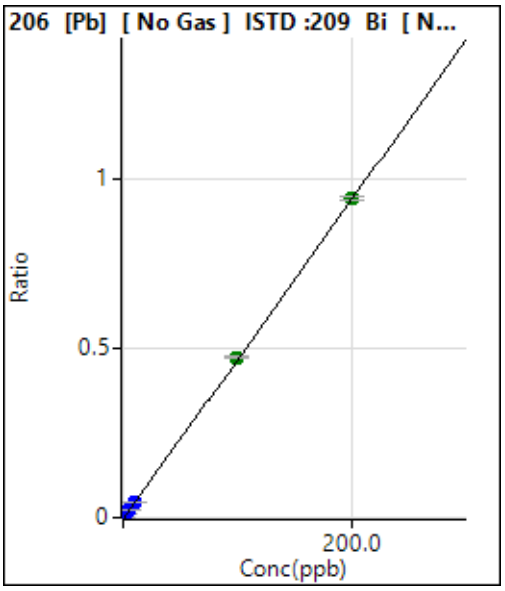
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 276.68 | 0.0001 | P | 9.2 | |
| 2 | ☐ | 2.000 | 2.110 | 85609.75 | 0.0250 | P | 4.1 | 5.5 |
| 3 | ☐ | 5.000 | 5.173 | 208749.78 | 0.0611 | P | 2.1 | 3.5 |
| 4 | ☐ | 10.000 | 10.028 | 406996.01 | 0.1184 | P | 1.4 | 0.3 |
| 5 | ☐ | 100.000 | 101.752 | 4004801.82 | 1.2007 | A | 2.0 | 1.8 |
| 6 | ☐ | 200.000 | 199.117 | 7646193.01 | 2.3495 | A | 1.8 | -0.4 |

y = 0.0118 * x + 8.0646E-005
R = 0.9999
DL = 0.001891 ppb
BEC = 0.006835 ppb

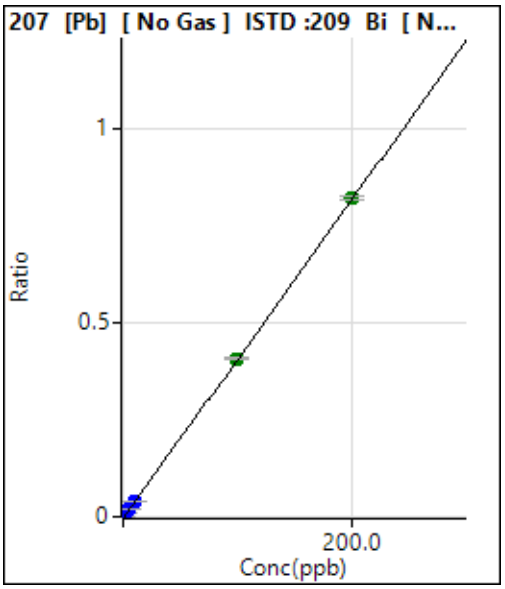
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 440.02 | 0.0001 | P | 24.3 | |
| 2 | ☐ | 2.000 | 1.966 | 32258.31 | 0.0094 | P | 1.8 | -1.7 |
| 3 | ☐ | 5.000 | 4.913 | 79684.25 | 0.0233 | P | 1.3 | -1.7 |
| 4 | ☐ | 10.000 | 9.934 | 161711.00 | 0.0470 | P | 2.6 | -0.7 |
| 5 | ☐ | 100.000 | 100.362 | 1581460.96 | 0.4741 | A | 1.4 | 0.4 |
| 6 | ☐ | 200.000 | 199.825 | 3071924.43 | 0.9439 | A | 1.2 | -0.1 |

y = 0.0047 * x + 1.2798E-004
R = 1.0000
DL = 0.01977 ppb
BEC = 0.0271 ppb

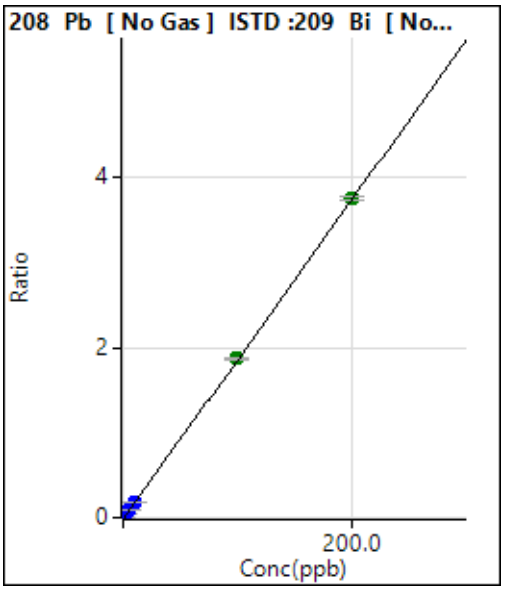
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 316.68 | 0.0001 | P | 7.7 | |
| 2 | ☐ | 2.000 | 1.989 | 28245.21 | 0.0082 | P | 1.1 | -0.6 |
| 3 | ☐ | 5.000 | 4.942 | 69471.25 | 0.0203 | P | 1.7 | -1.2 |
| 4 | ☐ | 10.000 | 10.055 | 141926.37 | 0.0413 | P | 0.8 | 0.6 |
| 5 | ☐ | 100.000 | 99.448 | 1359347.43 | 0.4075 | A | 1.4 | -0.6 |
| 6 | ☐ | 200.000 | 200.275 | 2670719.23 | 0.8206 | A | 1.1 | 0.1 |

y = 0.0041 * x + 9.2239E-005
R = 1.0000
DL = 0.005176 ppb
BEC = 0.02251 ppb

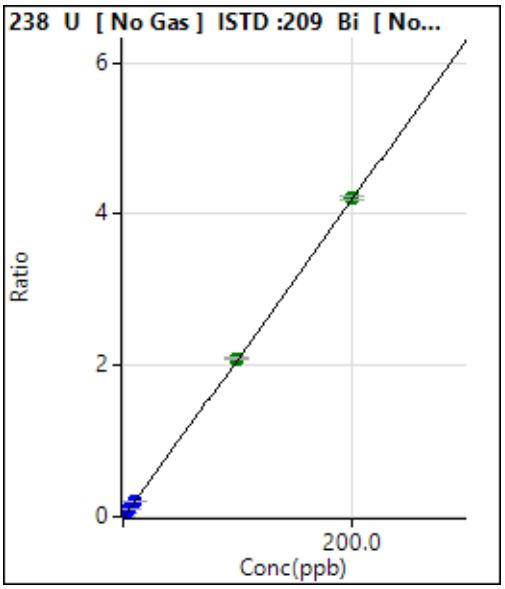
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1676.74 | 0.0005 | P | 8.1 | |
| 2 | ☐ | 2.000 | 1.966 | 128209.23 | 0.0374 | P | 2.3 | -1.7 |
| 3 | ☐ | 5.000 | 4.957 | 319631.56 | 0.0936 | P | 1.8 | -0.9 |
| 4 | ☐ | 10.000 | 10.060 | 651087.94 | 0.1894 | P | 1.4 | 0.6 |
| 5 | ☐ | 100.000 | 99.864 | 6257181.15 | 1.8759 | A | 1.4 | -0.1 |
| 6 | ☐ | 200.000 | 200.066 | 12229555.23 | 3.7577 | A | 1.1 | 0.0 |

y = 0.0188 * x + 4.8831E-004
R = 1.0000
DL = 0.006282 ppb
BEC = 0.026 ppb

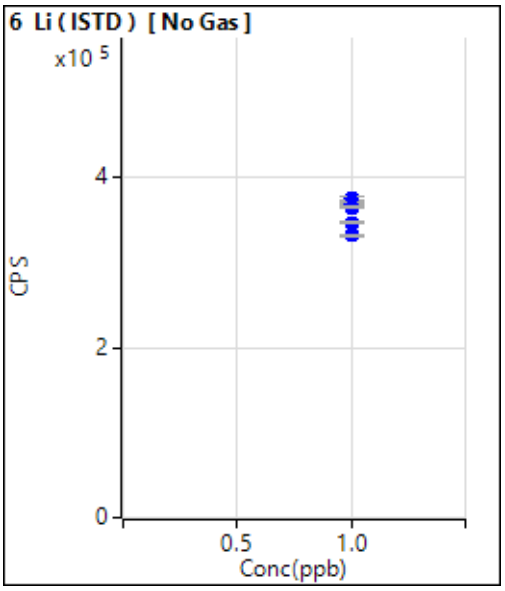
Weight: <None>
Min Conc: <None>



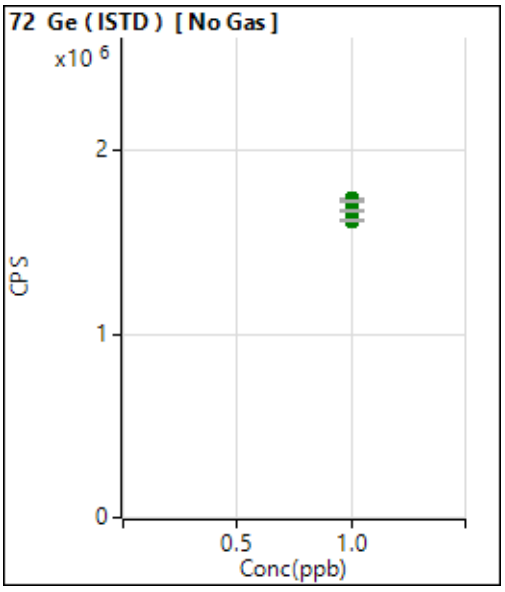

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 693.37 | 0.0002 | P | 14.1 | |
| 2 | ☐ | 2.000 | 1.841 | 133404.32 | 0.0389 | P | 2.8 | -8.0 |
| 3 | ☐ | 5.000 | 4.668 | 336062.00 | 0.0984 | P | 2.0 | -6.6 |
| 4 | ☐ | 10.000 | 9.486 | 686648.56 | 0.1998 | P | 1.6 | -5.1 |
| 5 | ☐ | 100.000 | 99.302 | 6968497.61 | 2.0892 | A | 0.7 | -0.7 |
| 6 | ☐ | 200.000 | 200.385 | 13719616.88 | 4.2156 | A | 1.2 | 0.2 |

y = 0.0210 * x + 2.0211E-004
R = 1.0000
DL = 0.004063 ppb
BEC = 0.009608 ppb

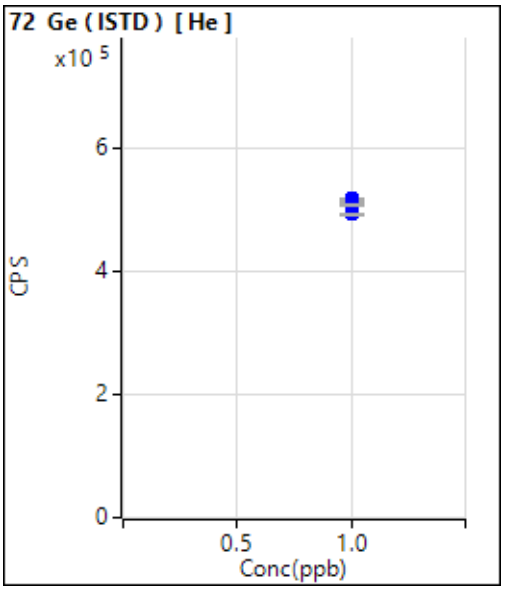
Weight: <None>
Min Conc: <None>



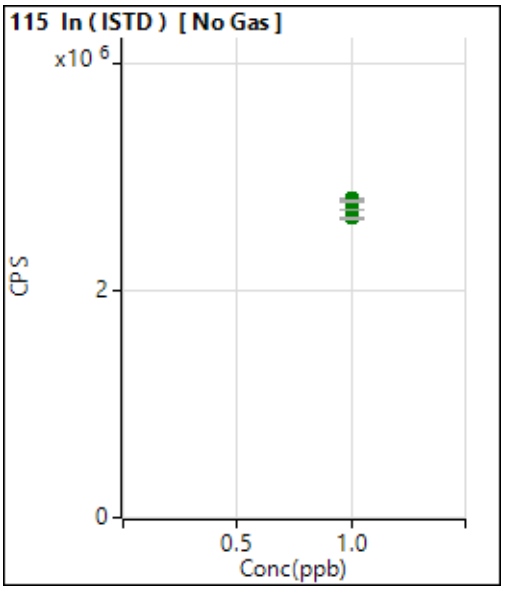

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 375545.86 | | P | 0.7 | |
| 2 | ☐ | 1.000 | | 370459.99 | | P | 0.4 | |
| 3 | ☐ | 1.000 | | 369364.72 | | P | 1.2 | |
| 4 | ☐ | 1.000 | | 365340.52 | | P | 0.6 | |
| 5 | ☐ | 1.000 | | 346983.29 | | P | 0.6 | |
| 6 | ☐ | 1.000 | | 331810.02 | | P | 0.4 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1740970.13 | | A | 0.5 | |
| 2 | ☐ | 1.000 | | 1738465.55 | | A | 0.9 | |
| 3 | ☐ | 1.000 | | 1734354.56 | | A | 0.3 | |
| 4 | ☐ | 1.000 | | 1723288.15 | | A | 0.4 | |
| 5 | ☐ | 1.000 | | 1670427.21 | | A | 0.5 | |
| 6 | ☐ | 1.000 | | 1620036.54 | | A | 0.1 | |

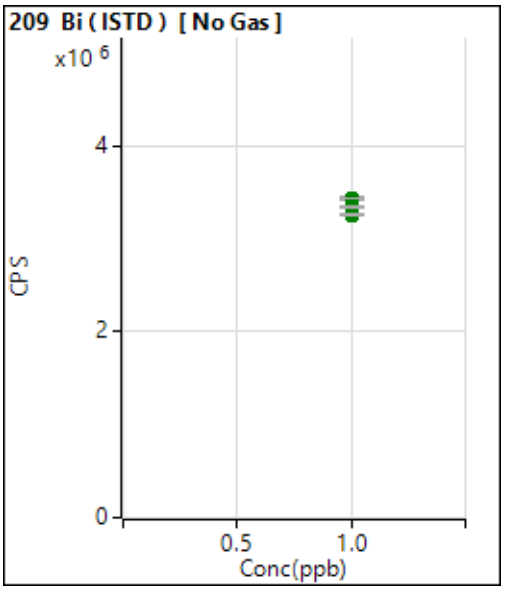



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 514002.11 | | P | 1.3 | |
| 2 | ☐ | 1.000 | | 515866.93 | | P | 0.3 | |
| 3 | ☐ | 1.000 | | 518203.58 | | P | 0.2 | |
| 4 | ☐ | 1.000 | | 513151.11 | | P | 0.9 | |
| 5 | ☐ | 1.000 | | 507673.23 | | P | 0.9 | |
| 6 | ☐ | 1.000 | | 492101.76 | | P | 0.7 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 2799462.89 | | A | 0.5 | |
| 2 | ☐ | 1.000 | | 2810325.67 | | A | 0.1 | |
| 3 | ☐ | 1.000 | | 2797574.52 | | A | 0.2 | |
| 4 | ☐ | 1.000 | | 2786834.01 | | A | 0.3 | |
| 5 | ☐ | 1.000 | | 2711989.03 | | A | 0.2 | |
| 6 | ☐ | 1.000 | | 2634933.38 | | A | 0.4 | |

Calibration for 245_ICV.d

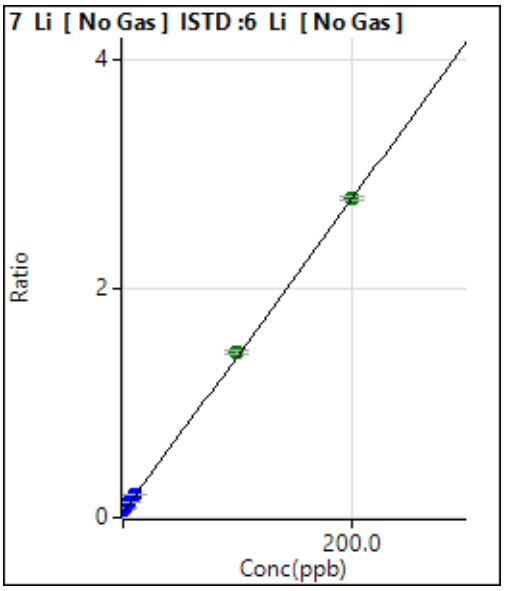



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3432725.99 | | A | 1.0 | |
| 2 | ☐ | 1.000 | | 3427876.41 | | A | 0.8 | |
| 3 | ☐ | 1.000 | | 3415552.03 | | A | 0.5 | |
| 4 | ☐ | 1.000 | | 3437419.01 | | A | 0.2 | |
| 5 | ☐ | 1.000 | | 3335584.22 | | A | 0.7 | |
| 6 | ☐ | 1.000 | | 3254629.74 | | A | 0.5 | |

Calibration for 209_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070124A.b\
Analysis File: 070124A.batch.bin
DA Date-Time: 7/1/2024 11:22:18 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

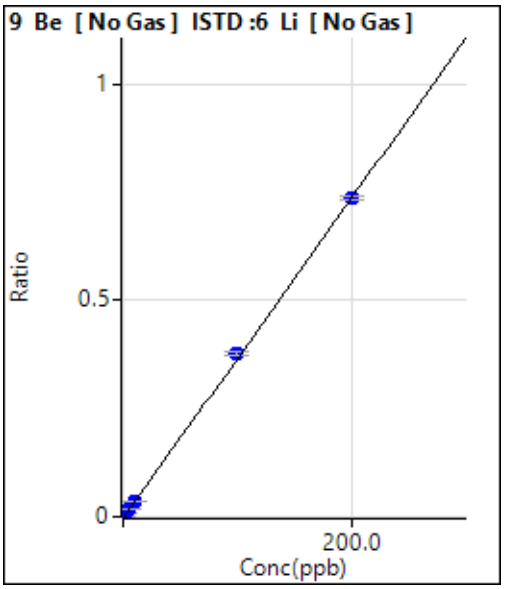
| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 202CALB.d | CAL BLK | 7/1/2024 8:44:27 PM |
| 2 | 203CALS.d | 2/10/200 | 7/1/2024 8:46:59 PM |
| 3 | 204CALS.d | 5/25/500 | 7/1/2024 8:49:30 PM |
| 4 | 205CALS.d | 10/50/100 | 7/1/2024 8:52:01 PM |
| 5 | 206CALS.d | 100/500/10K | 7/1/2024 8:54:32 PM |
| 6 | 207CALS.d | 200/1000/20K | 7/1/2024 8:57:03 PM |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 41349.69 | 0.0612 | P | 1.8 | |
| 2 | ☐ | 2.000 | 1.933 | 57328.04 | 0.0875 | P | 0.9 | -3.4 |
| 3 | ☐ | 5.000 | 4.976 | 83859.88 | 0.1291 | P | 0.3 | -0.5 |
| 4 | ☐ | 10.000 | 10.029 | 125847.80 | 0.1980 | P | 0.4 | 0.3 |
| 5 | ☐ | 100.000 | 100.836 | 850622.31 | 1.4375 | A | 2.1 | 0.8 |
| 6 | ☐ | 200.000 | 199.582 | 1563797.94 | 2.7854 | A | 0.8 | -0.2 |

y = 0.0136 * x + 0.0612
R = 1.0000
DL = 0.2441 ppb
BEC = 4.481 ppb

Weight: <None>
Min Conc: <None>

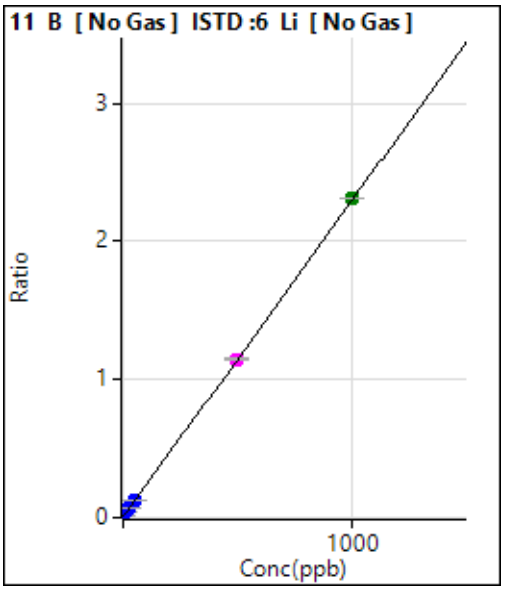



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 33.33 | 0.0000 | P | 46.8 | |
| 2 | ☐ | 2.000 | 1.997 | 4872.54 | 0.0074 | P | 7.6 | -0.2 |
| 3 | ☐ | 5.000 | 4.787 | 11544.77 | 0.0178 | P | 3.8 | -4.3 |
| 4 | ☐ | 10.000 | 9.962 | 23461.04 | 0.0369 | P | 2.0 | -0.4 |
| 5 | ☐ | 100.000 | 101.955 | 223311.55 | 0.3774 | P | 1.9 | 2.0 |
| 6 | ☐ | 200.000 | 199.029 | 413586.74 | 0.7367 | P | 0.8 | -0.5 |

y = 0.0037 * x + 4.9437E-005
R = 0.9999
DL = 0.01874 ppb
BEC = 0.01336 ppb

Weight: <None>
Min Conc: <None>

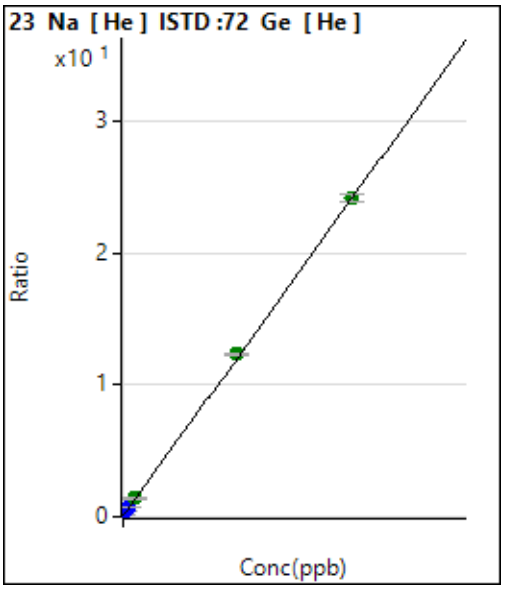
Calibration for 209_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 10659.44 | 0.0158 | P | 3.4 | |
| 2 | ☐ | 10.000 | 8.977 | 23774.90 | 0.0363 | P | 1.5 | -10.2 |
| 3 | ☐ | 25.000 | 23.099 | 44577.94 | 0.0686 | P | 0.3 | -7.6 |
| 4 | ☐ | 50.000 | 48.314 | 80263.19 | 0.1263 | P | 1.2 | -3.4 |
| 5 | ☐ | 500.000 | 493.326 | 677205.15 | 1.1444 | M | 1.5 | -1.3 |
| 6 | ☐ | 1000.000 | 1003.479 | 1297792.19 | 2.3116 | A | 0.2 | 0.3 |

y = 0.0023 * x + 0.0158
R = 1.0000
DL = 0.7123 ppb
BEC = 6.892 ppb

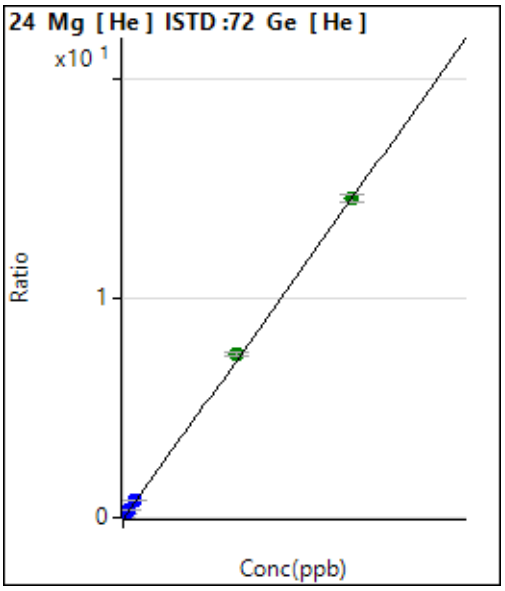
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 140843.03 | 0.1722 | P | 1.5 | |
| 2 | ☐ | 200.000 | 186.633 | 322805.45 | 0.3969 | P | 0.2 | -6.7 |
| 3 | ☐ | 500.000 | 479.846 | 607865.42 | 0.7499 | P | 0.8 | -4.0 |
| 4 | ☐ | 1000.000 | 1008.011 | 1106405.71 | 1.3858 | A | 1.3 | 0.8 |
| 5 | ☐ | 10000.00 | 10114.06 | 9574453.19 | 12.3487 | A | 1.6 | 1.1 |
| 6 | ☐ | 20000.00 | 19943.20 | 18149792.65 | 24.1821 | A | 2.0 | -0.3 |

y = 0.0012 * x + 0.1722
R = 1.0000
DL = 6.429 ppb
BEC = 143 ppb

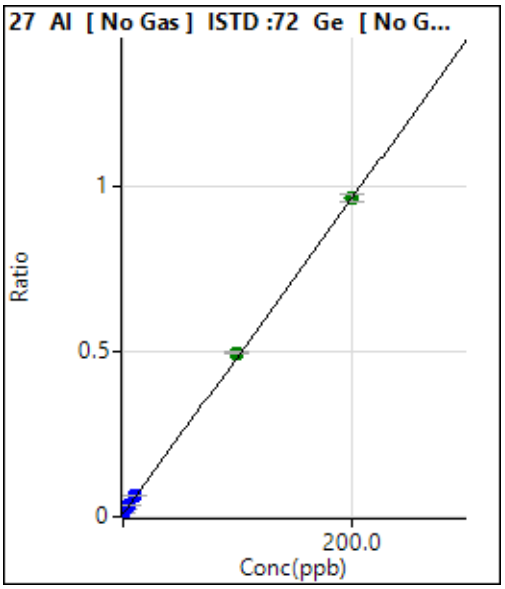
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2980.92 | 0.0036 | P | 22.5 | |
| 2 | ☐ | 200.000 | 201.785 | 123059.12 | 0.1513 | P | 1.1 | 0.9 |
| 3 | ☐ | 500.000 | 502.648 | 301114.95 | 0.3715 | P | 0.8 | 0.5 |
| 4 | ☐ | 1000.000 | 1039.926 | 610481.59 | 0.7646 | P | 1.5 | 4.0 |
| 5 | ☐ | 10000.00 | 10165.77 | 5770524.29 | 7.4426 | A | 1.8 | 1.7 |
| 6 | ☐ | 20000.00 | 19915.03 | 10940753.59 | 14.5767 | A | 1.8 | -0.4 |

y = 7.3176E-004 * x + 0.0036
R = 1.0000
DL = 3.368 ppb
BEC = 4.979 ppb

Weight: <None>
Min Conc: <None>

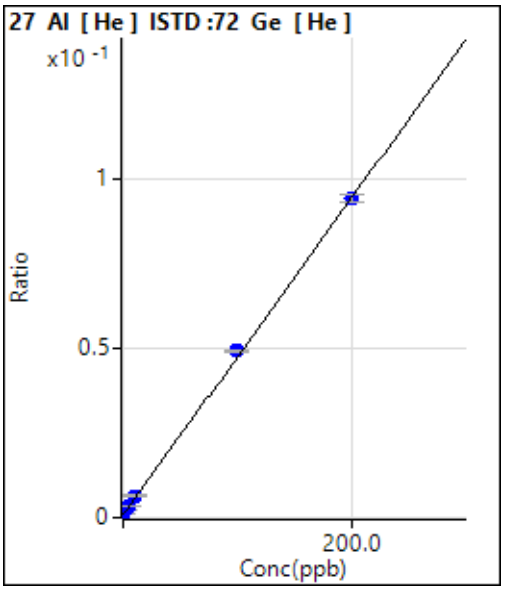



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 35946.06 | 0.0128 | P | 1.8 | |
| 2 | ☐ | 2.000 | 2.084 | 63761.00 | 0.0227 | P | 0.6 | 4.2 |
| 3 | ☐ | 5.000 | 4.781 | 98781.12 | 0.0356 | P | 2.3 | -4.4 |
| 4 | ☐ | 10.000 | 10.377 | 171432.97 | 0.0624 | P | 1.4 | 3.8 |
| 5 | ☐ | 100.000 | 101.236 | 1316379.05 | 0.4967 | A | 1.0 | 1.2 |
| 6 | ☐ | 200.000 | 199.368 | 2442972.46 | 0.9658 | A | 2.0 | -0.3 |

y = 0.0048 * x + 0.0128
R = 1.0000
DL = 0.1446 ppb
BEC = 2.668 ppb

Weight: <None>
Min Conc: <None>

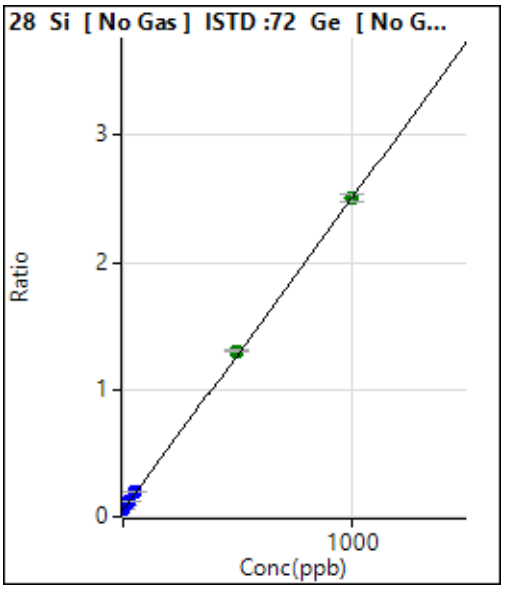
Calibration for 209_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1056.73 | 0.0013 | P | 2.8 | |
| 2 | ☐ | 2.000 | 1.667 | 1686.80 | 0.0021 | P | 4.3 | -16.6 |
| 3 | ☐ | 5.000 | 5.003 | 2950.37 | 0.0036 | P | 2.0 | 0.1 |
| 4 | ☐ | 10.000 | 10.870 | 5104.36 | 0.0064 | P | 5.0 | 8.7 |
| 5 | ☐ | 100.000 | 102.453 | 38279.02 | 0.0494 | P | 0.9 | 2.5 |
| 6 | ☐ | 200.000 | 198.733 | 70968.50 | 0.0945 | P | 2.5 | -0.6 |

y = 4.6926E-004 * x + 0.0013
R = 0.9999
DL = 0.2276 ppb
BEC = 2.753 ppb

Weight: <None>
Min Conc: <None>

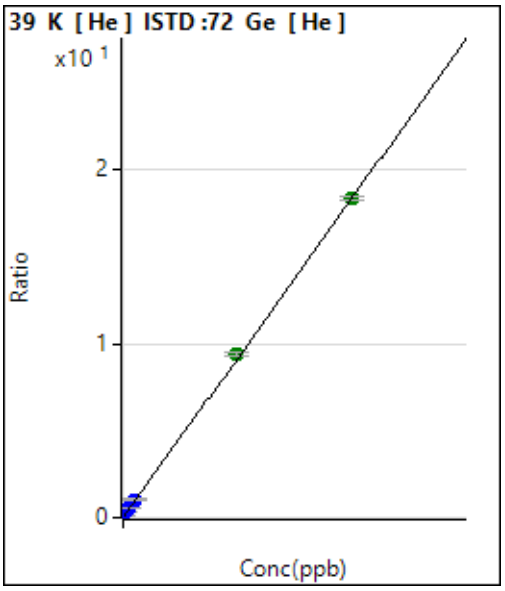



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 182272.70 | 0.0647 | P | 1.2 | |
| 2 | ☐ | 10.000 | 9.957 | 249973.26 | 0.0891 | P | 0.6 | -0.4 |
| 3 | ☐ | 25.000 | 25.175 | 350490.13 | 0.1263 | P | 1.0 | 0.7 |
| 4 | ☐ | 50.000 | 51.795 | 526562.09 | 0.1916 | P | 1.1 | 3.6 |
| 5 | ☐ | 500.000 | 506.071 | 3456666.51 | 1.3043 | A | 0.5 | 1.2 |
| 6 | ☐ | 1000.000 | 996.871 | 6339958.87 | 2.5065 | A | 2.1 | -0.3 |

y = 0.0024 * x + 0.0647
R = 1.0000
DL = 0.9229 ppb
BEC = 26.41 ppb

Weight: <None>
Min Conc: <None>

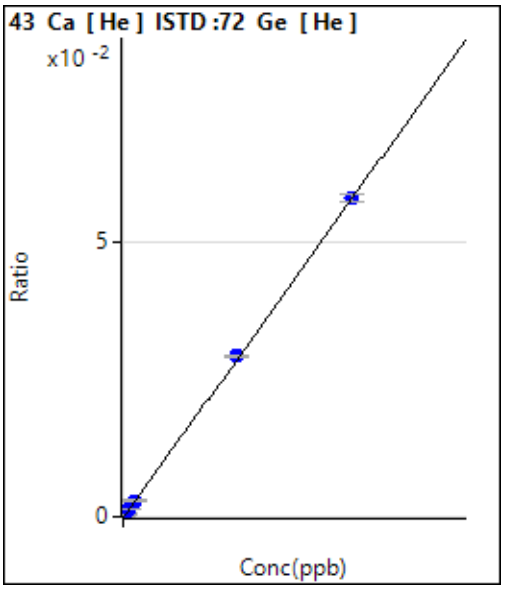
Calibration for 209_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 81527.51 | 0.0997 | P | 0.4 | |
| 2 | ☐ | 200.000 | 201.913 | 231489.49 | 0.2846 | P | 0.8 | 1.0 |
| 3 | ☐ | 500.000 | 505.042 | 455793.92 | 0.5623 | P | 0.5 | 1.0 |
| 4 | ☐ | 1000.000 | 1036.732 | 837738.87 | 1.0493 | P | 1.3 | 3.7 |
| 5 | ☐ | 10000.00 | 10158.71 | 7291634.06 | 9.4044 | A | 1.6 | 1.6 |
| 6 | ☐ | 20000.00 | 19918.66 | 13768221.46 | 18.3439 | A | 1.4 | -0.4 |

y = 9.1594E-004 * x + 0.0997
R = 1.0000
DL = 1.414 ppb
BEC = 108.8 ppb

Weight: <None>
Min Conc: <None>

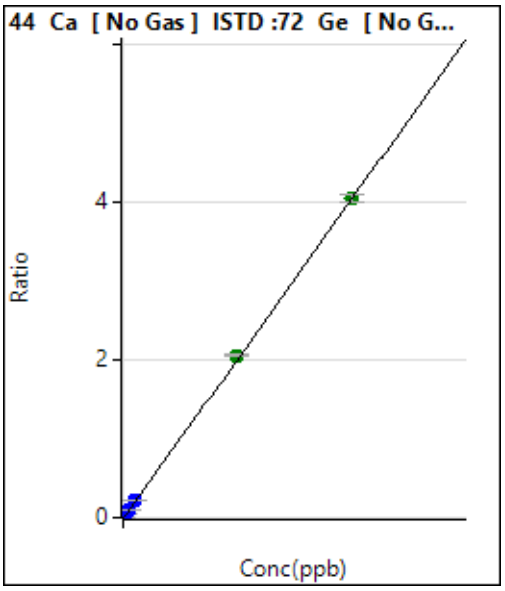



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 43.33 | 0.0001 | P | 57.9 | |
| 2 | ☐ | 200.000 | 172.660 | 450.02 | 0.0006 | P | 11.3 | -13.7 |
| 3 | ☐ | 500.000 | 451.195 | 1103.39 | 0.0014 | P | 12.5 | -9.8 |
| 4 | ☐ | 1000.000 | 977.235 | 2303.57 | 0.0029 | P | 5.9 | -2.3 |
| 5 | ☐ | 10000.00 | 10069.61 | 22668.70 | 0.0292 | P | 1.7 | 0.7 |
| 6 | ☐ | 20000.00 | 19967.82 | 43481.53 | 0.0579 | P | 2.4 | -0.2 |

y = 2.8982E-006 * x + 5.2971E-005
R = 1.0000
DL = 31.77 ppb
BEC = 18.28 ppb

Weight: <None>
Min Conc: <None>

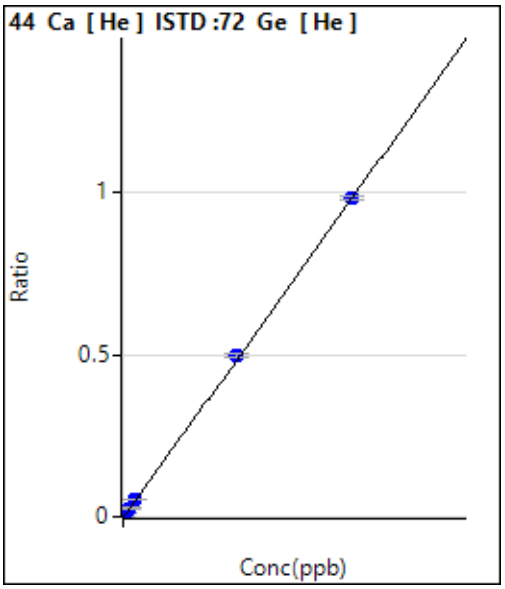
Calibration for 209_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 11951.97 | 0.0042 | P | 3.5 | |
| 2 | ☐ | 200.000 | 204.122 | 128007.80 | 0.0456 | P | 1.6 | 2.1 |
| 3 | ☐ | 500.000 | 510.286 | 298637.16 | 0.1077 | P | 1.7 | 2.1 |
| 4 | ☐ | 1000.000 | 1032.016 | 586609.28 | 0.2134 | P | 1.0 | 3.2 |
| 5 | ☐ | 10000.00 | 10089.59 | 5430393.46 | 2.0490 | A | 1.1 | 0.9 |
| 6 | ☐ | 20000.00 | 19953.30 | 10238904.22 | 4.0480 | A | 2.2 | -0.2 |

y = 2.0266E-004 * x + 0.0042
R = 1.0000
DL = 2.226 ppb
BEC = 20.93 ppb

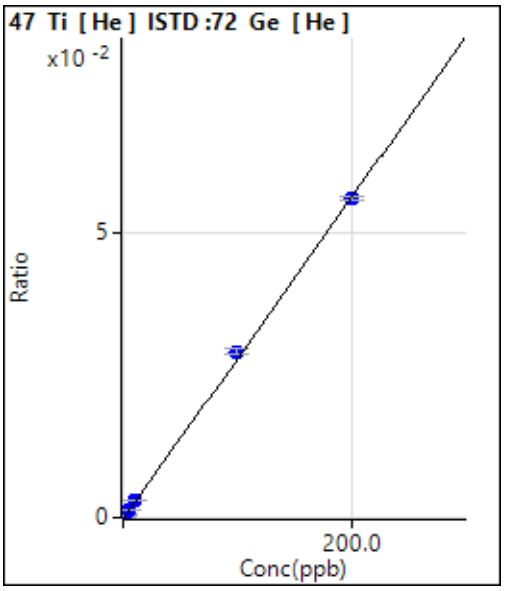
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 626.69 | 0.0008 | P | 16.3 | |
| 2 | ☐ | 200.000 | 201.935 | 8719.53 | 0.0107 | P | 5.4 | 1.0 |
| 3 | ☐ | 500.000 | 519.344 | 21373.41 | 0.0264 | P | 2.8 | 3.9 |
| 4 | ☐ | 1000.000 | 1036.543 | 41411.83 | 0.0519 | P | 0.8 | 3.7 |
| 5 | ☐ | 10000.00 | 10097.43 | 386560.37 | 0.4986 | P | 1.7 | 1.0 |
| 6 | ☐ | 20000.00 | 19948.95 | 738744.03 | 0.9842 | P | 1.3 | -0.3 |

y = 4.9300E-005 * x + 7.6631E-004
R = 1.0000
DL = 7.585 ppb
BEC = 15.54 ppb

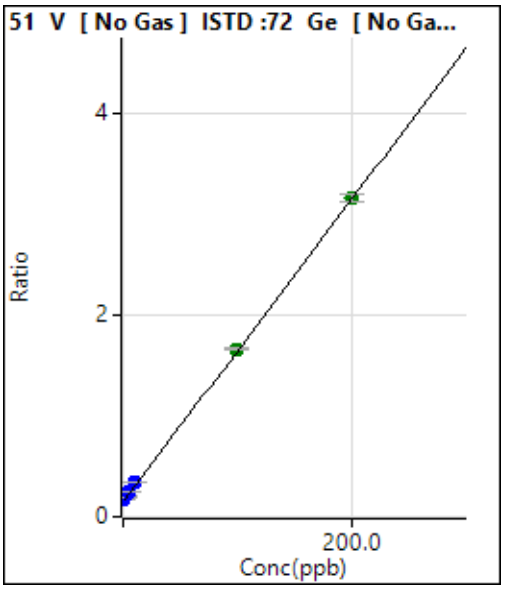
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Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6.67 | 0.0000 | P | 173.2 | |
| 2 | ☐ | 2.000 | 1.709 | 400.01 | 0.0005 | P | 9.4 | -14.6 |
| 3 | ☐ | 5.000 | 4.766 | 1100.06 | 0.0014 | P | 11.8 | -4.7 |
| 4 | ☐ | 10.000 | 10.663 | 2416.93 | 0.0030 | P | 7.4 | 6.6 |
| 5 | ☐ | 100.000 | 103.183 | 22658.85 | 0.0292 | P | 3.2 | 3.2 |
| 6 | ☐ | 200.000 | 198.384 | 42170.88 | 0.0562 | P | 1.2 | -0.8 |

y = 2.8316E-004 * x + 8.1373E-006
R = 0.9998
DL = 0.1493 ppb
BEC = 0.02874 ppb

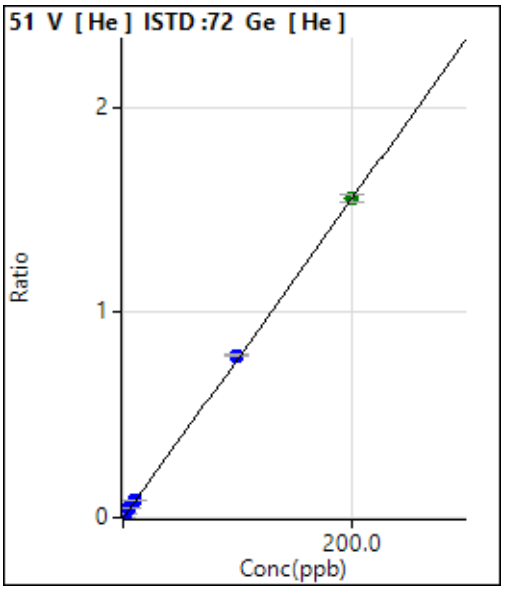
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 461297.75 | 0.1637 | P | 2.3 | |
| 2 | ☐ | 2.000 | 2.435 | 561742.44 | 0.2002 | P | 1.1 | 21.7 |
| 3 | ☐ | 5.000 | 5.892 | 698973.58 | 0.2520 | P | 0.7 | 17.8 |
| 4 | ☐ | 10.000 | 11.807 | 936161.19 | 0.3406 | P | 1.3 | 18.1 |
| 5 | ☐ | 100.000 | 100.034 | 4405637.61 | 1.6623 | A | 1.5 | 0.0 |
| 6 | ☐ | 200.000 | 199.866 | 7987708.91 | 3.1580 | A | 2.3 | -0.1 |

y = 0.0150 * x + 0.1637
R = 1.0000
DL = 0.7548 ppb
BEC = 10.93 ppb

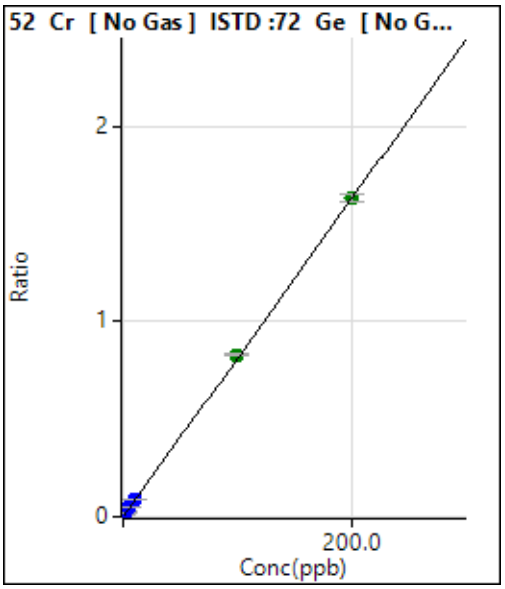
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3634.94 | 0.0044 | P | 0.4 | |
| 2 | ☐ | 2.000 | 1.989 | 16209.51 | 0.0199 | P | 2.0 | -0.5 |
| 3 | ☐ | 5.000 | 4.980 | 35026.34 | 0.0432 | P | 2.5 | -0.4 |
| 4 | ☐ | 10.000 | 10.291 | 67511.12 | 0.0846 | P | 1.4 | 2.9 |
| 5 | ☐ | 100.000 | 100.976 | 612906.64 | 0.7905 | P | 1.4 | 1.0 |
| 6 | ☐ | 200.000 | 199.498 | 1168975.51 | 1.5574 | A | 2.0 | -0.3 |

y = 0.0078 * x + 0.0044
R = 1.0000
DL = 0.006699 ppb
BEC = 0.5709 ppb

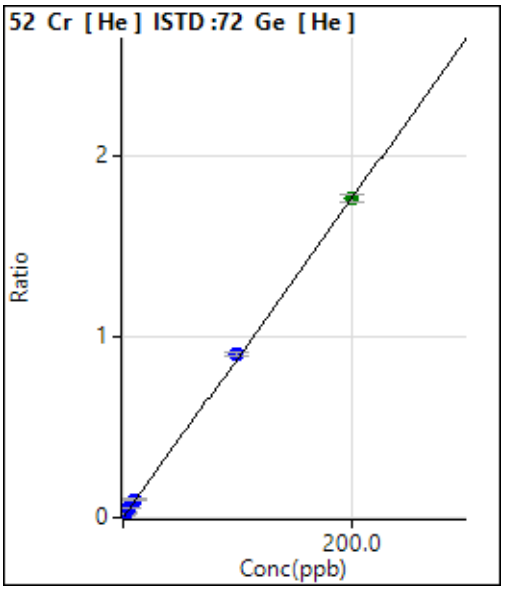
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 20735.82 | 0.0074 | P | 4.6 | |
| 2 | ☐ | 2.000 | 2.077 | 68217.42 | 0.0243 | P | 2.6 | 3.9 |
| 3 | ☐ | 5.000 | 5.152 | 137002.10 | 0.0494 | P | 1.8 | 3.0 |
| 4 | ☐ | 10.000 | 10.393 | 253306.83 | 0.0921 | P | 1.6 | 3.9 |
| 5 | ☐ | 100.000 | 101.047 | 2204325.59 | 0.8317 | A | 2.1 | 1.0 |
| 6 | ☐ | 200.000 | 199.452 | 4134429.21 | 1.6346 | A | 2.2 | -0.3 |

y = 0.0082 * x + 0.0074
R = 1.0000
DL = 0.1258 ppb
BEC = 0.9019 ppb

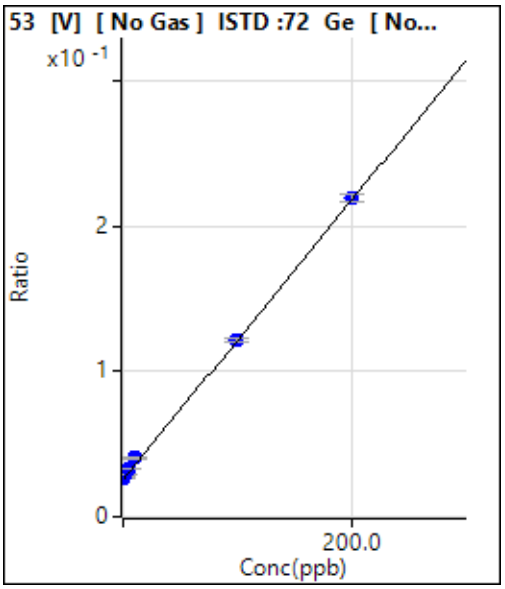
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7292.03 | 0.0089 | P | 6.9 | |
| 2 | ☐ | 2.000 | 1.973 | 21413.44 | 0.0263 | P | 3.5 | -1.4 |
| 3 | ☐ | 5.000 | 5.174 | 44250.68 | 0.0546 | P | 0.9 | 3.5 |
| 4 | ☐ | 10.000 | 10.434 | 80654.16 | 0.1010 | P | 2.7 | 4.3 |
| 5 | ☐ | 100.000 | 101.635 | 702535.22 | 0.9061 | P | 1.7 | 1.6 |
| 6 | ☐ | 200.000 | 199.157 | 1326209.15 | 1.7670 | A | 1.9 | -0.4 |

y = 0.0088 * x + 0.0089
R = 1.0000
DL = 0.2101 ppb
BEC = 1.01 ppb

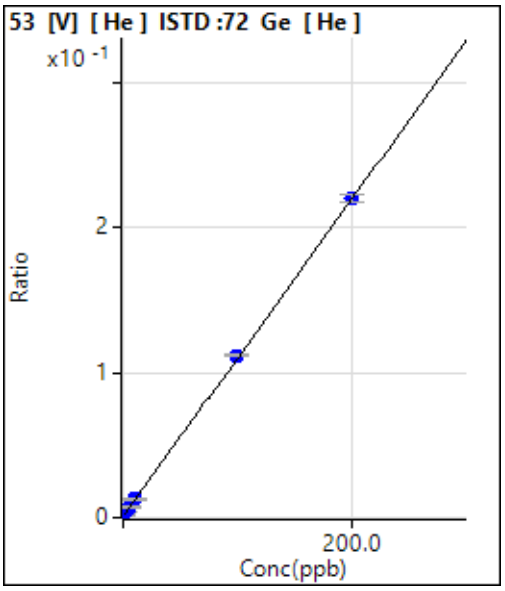
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 75348.33 | 0.0267 | P | 2.8 | |
| 2 | ☐ | 2.000 | 2.797 | 82568.95 | 0.0294 | P | 1.5 | 39.8 |
| 3 | ☐ | 5.000 | 6.797 | 92269.75 | 0.0333 | P | 1.9 | 35.9 |
| 4 | ☐ | 10.000 | 14.275 | 111156.92 | 0.0404 | P | 1.6 | 42.7 |
| 5 | ☐ | 100.000 | 98.471 | 321353.52 | 0.1213 | P | 2.0 | -1.5 |
| 6 | ☐ | 200.000 | 200.498 | 554371.61 | 0.2192 | P | 2.9 | 0.2 |

y = 9.5983E-004 * x + 0.0267
R = 0.9998
DL = 2.349 ppb
BEC = 27.86 ppb

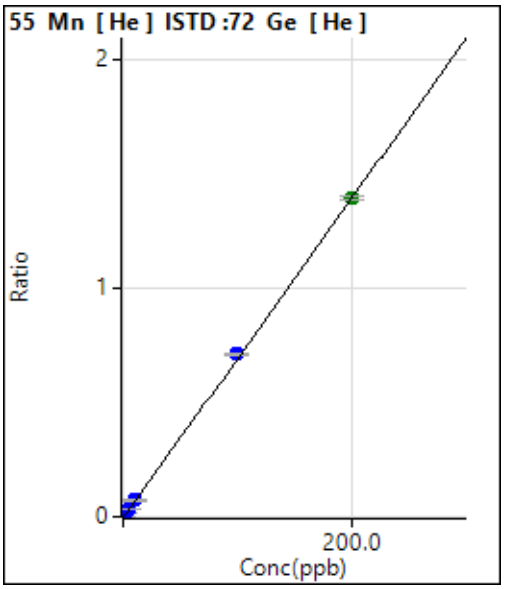
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1660.13 | 0.0020 | P | 10.2 | |
| 2 | ☐ | 2.000 | 1.715 | 3177.08 | 0.0039 | P | 5.2 | -14.2 |
| 3 | ☐ | 5.000 | 4.774 | 5878.03 | 0.0073 | P | 4.1 | -4.5 |
| 4 | ☐ | 10.000 | 9.803 | 10180.57 | 0.0128 | P | 2.5 | -2.0 |
| 5 | ☐ | 100.000 | 100.703 | 86965.26 | 0.1122 | P | 1.3 | 0.7 |
| 6 | ☐ | 200.000 | 199.667 | 165418.89 | 0.2204 | P | 2.0 | -0.2 |

y = 0.0011 * x + 0.0020
R = 1.0000
DL = 0.5682 ppb
BEC = 1.856 ppb

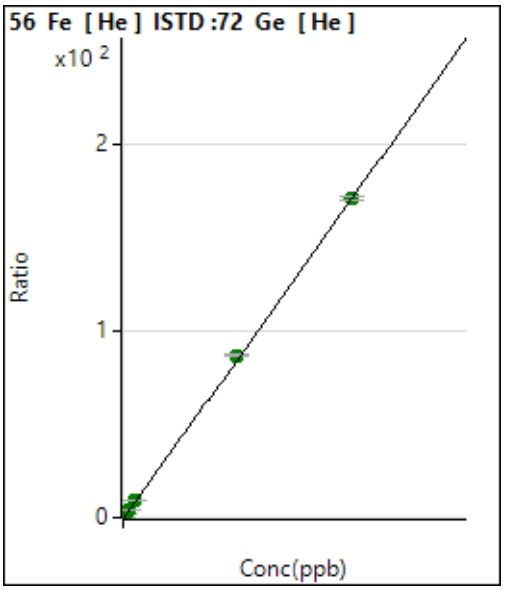
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 643.36 | 0.0008 | P | 8.0 | |
| 2 | ☐ | 2.000 | 1.990 | 11945.38 | 0.0147 | P | 3.9 | -0.5 |
| 3 | ☐ | 5.000 | 5.031 | 29131.03 | 0.0359 | P | 2.1 | 0.6 |
| 4 | ☐ | 10.000 | 10.191 | 57476.26 | 0.0720 | P | 1.9 | 1.9 |
| 5 | ☐ | 100.000 | 101.455 | 550182.15 | 0.7096 | P | 0.9 | 1.5 |
| 6 | ☐ | 200.000 | 199.262 | 1045447.85 | 1.3929 | A | 1.7 | -0.4 |

y = 0.0070 * x + 7.8669E-004
R = 1.0000
DL = 0.02693 ppb
BEC = 0.1126 ppb

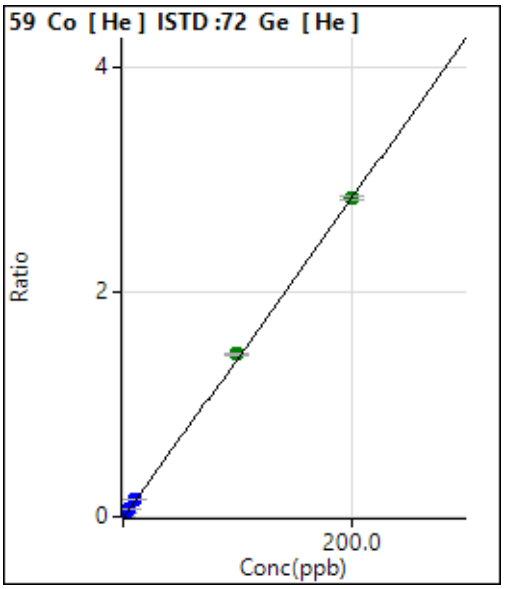
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 14054.02 | 0.0172 | P | 4.8 | |
| 2 | ☐ | 200.000 | 200.760 | 1414286.59 | 1.7388 | A | 1.3 | 0.4 |
| 3 | ☐ | 500.000 | 503.826 | 3516325.57 | 4.3377 | A | 2.0 | 0.8 |
| 4 | ☐ | 1000.000 | 1043.852 | 7160738.64 | 8.9687 | A | 1.6 | 4.4 |
| 5 | ☐ | 10000.00 | 10118.90 | 67294057.33 | 86.7918 | A | 1.3 | 1.2 |
| 6 | ☐ | 20000.00 | 19938.25 | 128342718.0 | 170.997 | A | 1.3 | -0.3 |

y = 0.0086 * x + 0.0172
R = 1.0000
DL = 0.2866 ppb
BEC = 2.004 ppb

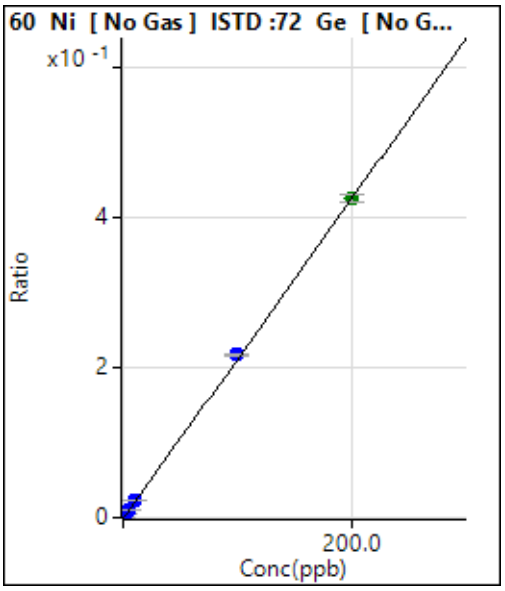
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 93.33 | 0.0001 | P | 44.4 | |
| 2 | ☐ | 2.000 | 1.947 | 22658.95 | 0.0279 | P | 3.4 | -2.7 |
| 3 | ☐ | 5.000 | 4.980 | 57627.10 | 0.0711 | P | 2.4 | -0.4 |
| 4 | ☐ | 10.000 | 10.270 | 116956.16 | 0.1465 | P | 1.5 | 2.7 |
| 5 | ☐ | 100.000 | 101.538 | 1122144.23 | 1.4473 | A | 1.0 | 1.5 |
| 6 | ☐ | 200.000 | 199.219 | 2131174.97 | 2.8395 | A | 1.5 | -0.4 |

y = 0.0143 * x + 1.1404E-004
R = 1.0000
DL = 0.01066 ppb
BEC = 0.008001 ppb

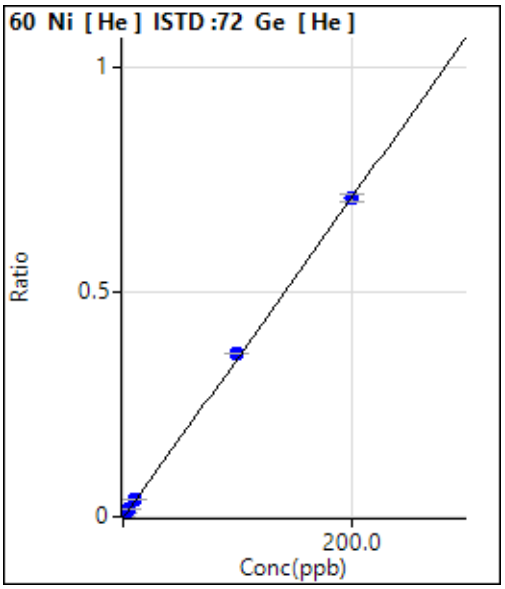
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1530.11 | 0.0005 | P | 8.5 | |
| 2 | ☐ | 2.000 | 2.037 | 13723.74 | 0.0049 | P | 1.4 | 1.8 |
| 3 | ☐ | 5.000 | 5.111 | 31766.95 | 0.0115 | P | 0.5 | 2.2 |
| 4 | ☐ | 10.000 | 10.356 | 62247.09 | 0.0226 | P | 0.3 | 3.6 |
| 5 | ☐ | 100.000 | 101.446 | 575247.70 | 0.2171 | P | 1.3 | 1.4 |
| 6 | ☐ | 200.000 | 199.256 | 1076993.24 | 0.4258 | A | 2.7 | -0.4 |

y = 0.0021 * x + 5.4295E-004
R = 1.0000
DL = 0.06473 ppb
BEC = 0.2544 ppb

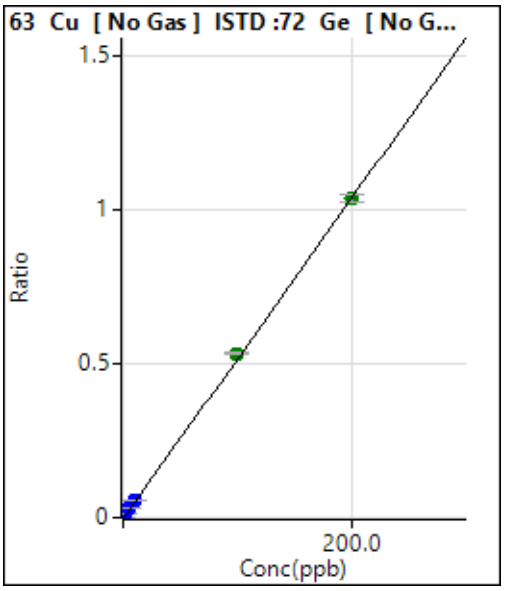
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 273.34 | 0.0003 | P | 16.3 | |
| 2 | ☐ | 2.000 | 2.079 | 6288.20 | 0.0077 | P | 2.5 | 3.9 |
| 3 | ☐ | 5.000 | 5.175 | 15198.61 | 0.0188 | P | 4.3 | 3.5 |
| 4 | ☐ | 10.000 | 10.736 | 30771.30 | 0.0385 | P | 1.9 | 7.4 |
| 5 | ☐ | 100.000 | 102.150 | 282109.35 | 0.3638 | P | 0.5 | 2.1 |
| 6 | ☐ | 200.000 | 198.883 | 531459.91 | 0.7081 | P | 1.9 | -0.6 |

y = 0.0036 * x + 3.3410E-004
R = 0.9999
DL = 0.04581 ppb
BEC = 0.09389 ppb

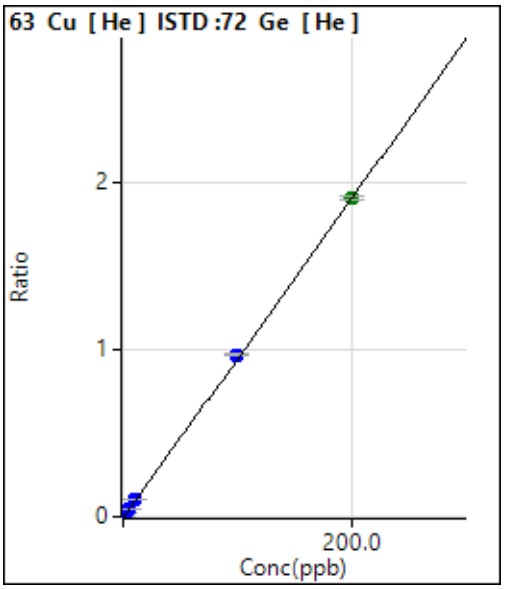
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3807.26 | 0.0014 | P | 10.1 | |
| 2 | ☐ | 2.000 | 2.101 | 34466.80 | 0.0123 | P | 2.3 | 5.0 |
| 3 | ☐ | 5.000 | 5.225 | 79163.46 | 0.0285 | P | 2.6 | 4.5 |
| 4 | ☐ | 10.000 | 10.507 | 154003.73 | 0.0560 | P | 1.5 | 5.1 |
| 5 | ☐ | 100.000 | 102.068 | 1411021.23 | 0.5324 | A | 1.8 | 2.1 |
| 6 | ☐ | 200.000 | 198.934 | 2621439.76 | 1.0364 | A | 2.5 | -0.5 |

y = 0.0052 * x + 0.0014
R = 0.9999
DL = 0.07857 ppb
BEC = 0.2596 ppb

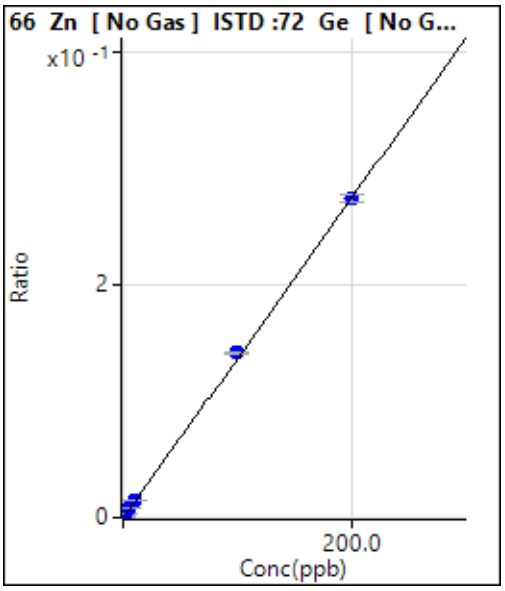
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 603.36 | 0.0007 | P | 15.4 | |
| 2 | ☐ | 2.000 | 2.077 | 16783.84 | 0.0206 | P | 3.1 | 3.9 |
| 3 | ☐ | 5.000 | 5.145 | 40546.62 | 0.0500 | P | 2.8 | 2.9 |
| 4 | ☐ | 10.000 | 10.459 | 80575.34 | 0.1009 | P | 0.4 | 4.6 |
| 5 | ☐ | 100.000 | 101.105 | 751420.67 | 0.9691 | P | 1.2 | 1.1 |
| 6 | ☐ | 200.000 | 199.420 | 1434189.36 | 1.9108 | A | 1.1 | -0.3 |

y = 0.0096 * x + 7.3771E-004
R = 1.0000
DL = 0.03569 ppb
BEC = 0.07702 ppb

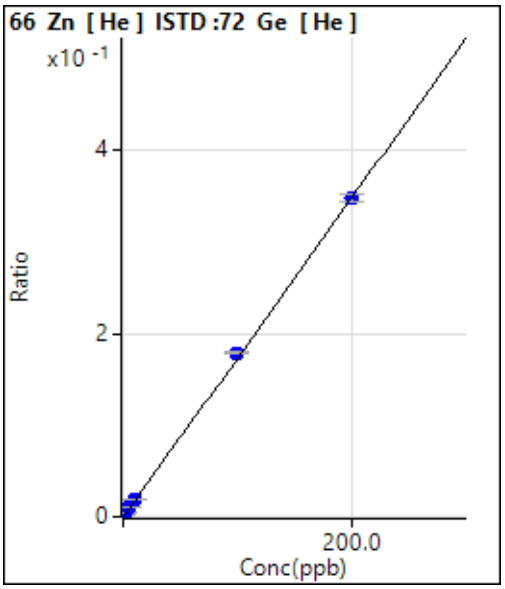
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2386.92 | 0.0008 | P | 13.4 | |
| 2 | ☐ | 2.000 | 2.003 | 10107.24 | 0.0036 | P | 3.1 | 0.2 |
| 3 | ☐ | 5.000 | 5.017 | 21483.77 | 0.0077 | P | 2.4 | 0.3 |
| 4 | ☐ | 10.000 | 10.271 | 41145.14 | 0.0150 | P | 0.4 | 2.7 |
| 5 | ☐ | 100.000 | 102.271 | 374888.93 | 0.1415 | P | 1.1 | 2.3 |
| 6 | ☐ | 200.000 | 198.850 | 693636.50 | 0.2742 | P | 2.5 | -0.6 |

y = 0.0014 * x + 8.4673E-004
R = 0.9999
DL = 0.2471 ppb
BEC = 0.6159 ppb

Weight: <None>
Min Conc: <None>

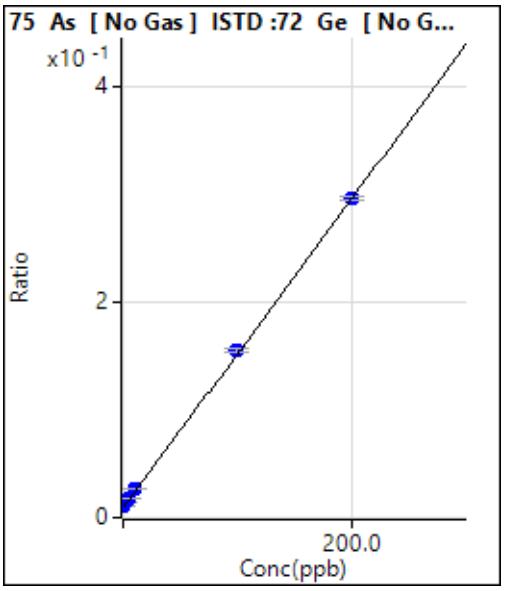



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 910.05 | 0.0011 | P | 10.0 | |
| 2 | ☐ | 2.000 | 2.169 | 3980.67 | 0.0049 | P | 9.9 | 8.5 |
| 3 | ☐ | 5.000 | 5.088 | 8092.53 | 0.0100 | P | 4.5 | 1.8 |
| 4 | ☐ | 10.000 | 10.312 | 15245.40 | 0.0191 | P | 0.6 | 3.1 |
| 5 | ☐ | 100.000 | 101.904 | 138644.14 | 0.1788 | P | 1.6 | 1.9 |
| 6 | ☐ | 200.000 | 199.028 | 261334.74 | 0.3482 | P | 2.2 | -0.5 |

y = 0.0017 * x + 0.0011
R = 0.9999
DL = 0.1914 ppb
BEC = 0.638 ppb

Weight: <None>
Min Conc: <None>

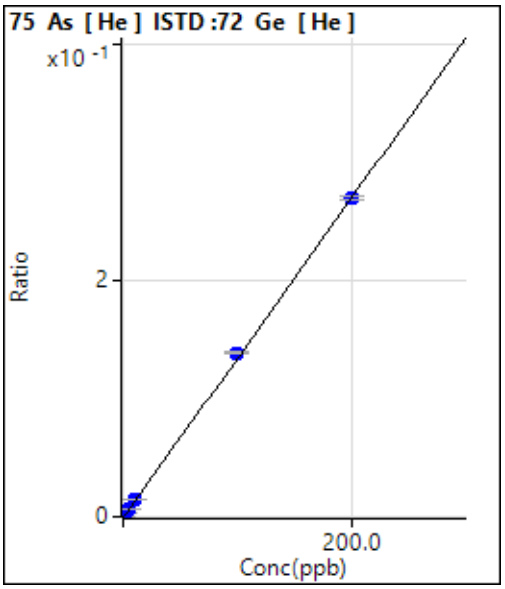
Calibration for 209_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 29482.27 | 0.0105 | P | 3.5 | |
| 2 | ☐ | 2.000 | 2.306 | 38655.20 | 0.0138 | P | 1.6 | 15.3 |
| 3 | ☐ | 5.000 | 5.508 | 50975.19 | 0.0184 | P | 2.2 | 10.2 |
| 4 | ☐ | 10.000 | 11.377 | 73695.32 | 0.0268 | P | 1.5 | 13.8 |
| 5 | ☐ | 100.000 | 101.157 | 412913.42 | 0.1558 | P | 1.5 | 1.2 |
| 6 | ☐ | 200.000 | 199.337 | 750934.13 | 0.2969 | P | 1.2 | -0.3 |

y = 0.0014 * x + 0.0105
R = 1.0000
DL = 0.7722 ppb
BEC = 7.281 ppb

Weight: <None>
Min Conc: <None>

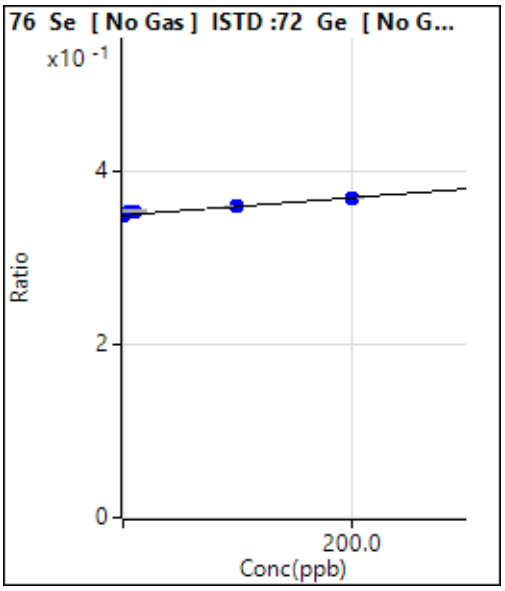



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 304.45 | 0.0004 | P | 10.9 | |
| 2 | ☐ | 2.000 | 1.898 | 2394.67 | 0.0029 | P | 4.1 | -5.1 |
| 3 | ☐ | 5.000 | 4.859 | 5637.85 | 0.0070 | P | 2.6 | -2.8 |
| 4 | ☐ | 10.000 | 10.325 | 11467.06 | 0.0144 | P | 1.0 | 3.2 |
| 5 | ☐ | 100.000 | 102.162 | 107620.06 | 0.1388 | P | 0.8 | 2.2 |
| 6 | ☐ | 200.000 | 198.907 | 202569.90 | 0.2699 | P | 1.4 | -0.5 |

y = 0.0014 * x + 3.7225E-004
R = 0.9999
DL = 0.08999 ppb
BEC = 0.2747 ppb

Weight: <None>
Min Conc: <None>

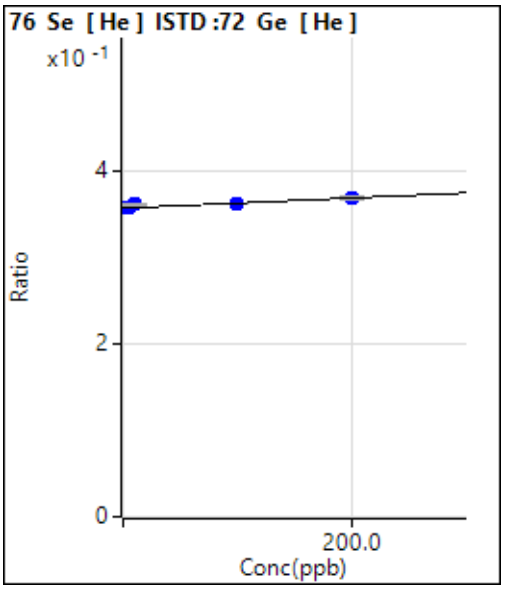
Calibration for 209_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 986809.18 | 0.3502 | P | 0.2 | |
| 2 | ☐ | 2.000 | 13.857 | 986693.01 | 0.3516 | P | 0.7 | 592.9 |
| 3 | ☐ | 5.000 | 46.490 | 984590.25 | 0.3549 | P | 0.5 | 829.8 |
| 4 | ☐ | 10.000 | 42.520 | 974528.03 | 0.3545 | P | 0.6 | 325.2 |
| 5 | ☐ | 100.000 | 110.349 | 957960.61 | 0.3615 | P | 0.1 | 10.3 |
| 6 | ☐ | 200.000 | 192.044 | 935588.92 | 0.3698 | P | 0.5 | -4.0 |

y = 1.0241E-004 * x + 0.3502
R = 0.9777
DL = 22.41 ppb
BEC = 3419 ppb

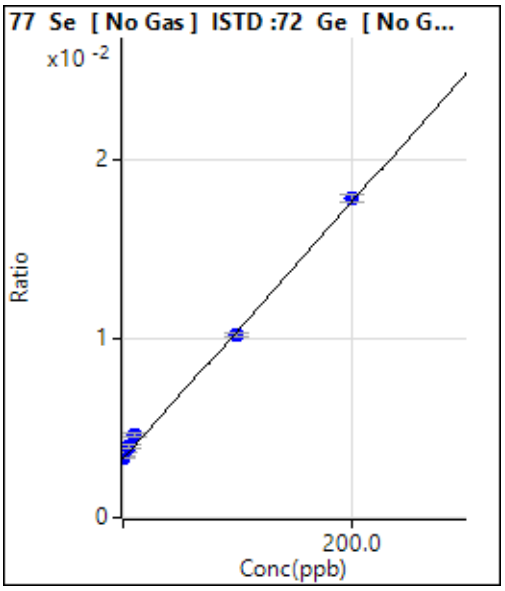
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 292004.58 | 0.3570 | P | 0.9 | |
| 2 | ☐ | 2.000 | -3.977 | 290168.21 | 0.3568 | P | 0.4 | -298.9 |
| 3 | ☐ | 5.000 | 19.753 | 290346.01 | 0.3582 | P | 0.3 | 295.1 |
| 4 | ☐ | 10.000 | 68.581 | 288298.83 | 0.3611 | P | 0.4 | 585.8 |
| 5 | ☐ | 100.000 | 95.418 | 281218.82 | 0.3627 | P | 0.2 | -4.6 |
| 6 | ☐ | 200.000 | 199.053 | 276852.01 | 0.3689 | P | 0.9 | -0.5 |

y = 5.9602E-005 * x + 0.3570
R = 0.9529
DL = 152.8 ppb
BEC = 5990 ppb

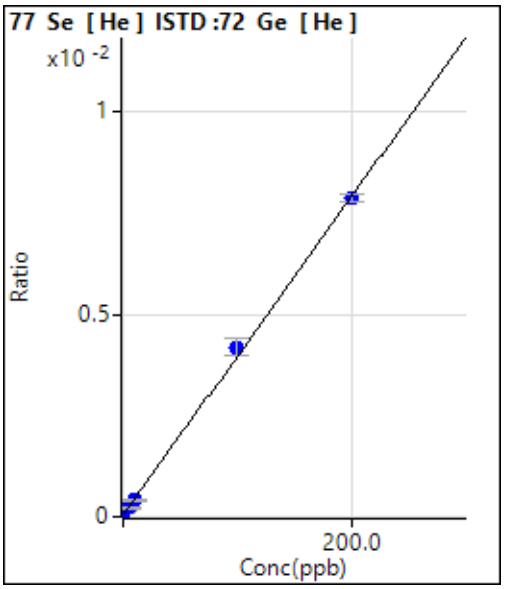
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 9550.26 | 0.0034 | P | 3.1 | |
| 2 | ☐ | 2.000 | 5.447 | 10607.66 | 0.0038 | P | 4.8 | 172.3 |
| 3 | ☐ | 5.000 | 8.950 | 11184.78 | 0.0040 | P | 4.9 | 79.0 |
| 4 | ☐ | 10.000 | 17.191 | 12712.79 | 0.0046 | P | 3.0 | 71.9 |
| 5 | ☐ | 100.000 | 95.485 | 27174.01 | 0.0103 | P | 2.4 | -4.5 |
| 6 | ☐ | 200.000 | 201.765 | 45265.46 | 0.0179 | P | 2.3 | 0.9 |

y = 7.1898E-005 * x + 0.0034
R = 0.9989
DL = 4.422 ppb
BEC = 47.13 ppb

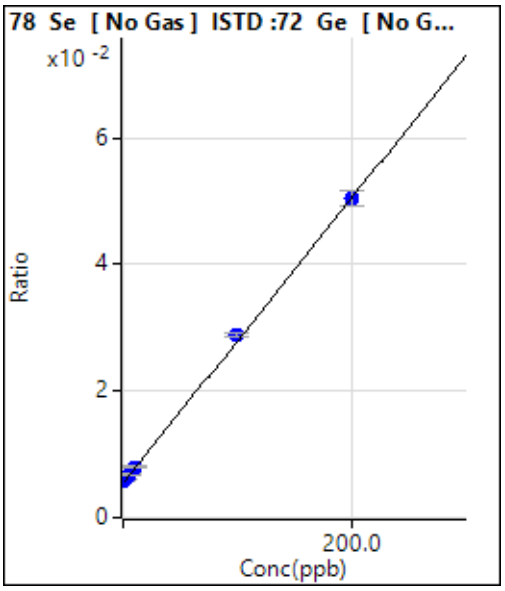
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 70.00 | 0.0001 | P | 24.6 | |
| 2 | ☐ | 2.000 | 2.511 | 150.00 | 0.0002 | P | 30.4 | 25.6 |
| 3 | ☐ | 5.000 | 3.261 | 173.33 | 0.0002 | P | 3.5 | -34.8 |
| 4 | ☐ | 10.000 | 8.335 | 330.01 | 0.0004 | P | 16.2 | -16.7 |
| 5 | ☐ | 100.000 | 104.203 | 3243.79 | 0.0042 | P | 10.6 | 4.2 |
| 6 | ☐ | 200.000 | 198.020 | 5911.38 | 0.0079 | P | 2.0 | -1.0 |

y = 3.9337E-005 * x + 8.5562E-005
R = 0.9996
DL = 1.604 ppb
BEC = 2.175 ppb

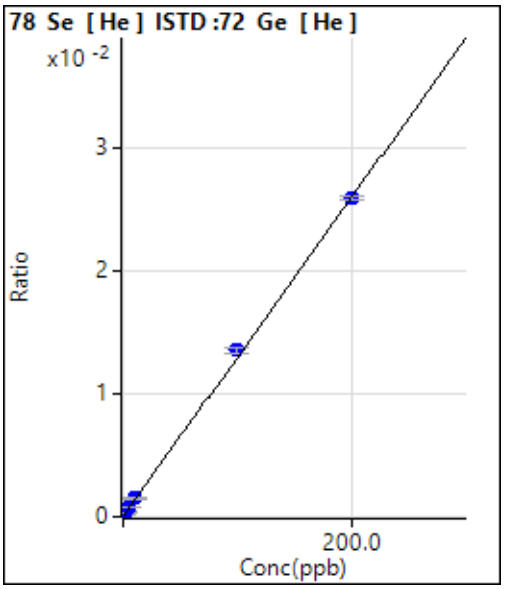
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 16149.81 | 0.0057 | P | 2.3 | |
| 2 | ☐ | 2.000 | 1.177 | 16823.95 | 0.0060 | P | 1.6 | -41.2 |
| 3 | ☐ | 5.000 | 4.475 | 18689.68 | 0.0067 | P | 3.9 | -10.5 |
| 4 | ☐ | 10.000 | 10.179 | 22044.77 | 0.0080 | P | 3.7 | 1.8 |
| 5 | ☐ | 100.000 | 102.471 | 76262.94 | 0.0288 | P | 2.2 | 2.5 |
| 6 | ☐ | 200.000 | 198.777 | 127547.48 | 0.0504 | P | 4.3 | -0.6 |

y = 2.2489E-004 * x + 0.0057
R = 0.9999
DL = 1.74 ppb
BEC = 25.48 ppb

Weight: <None>
Min Conc: <None>

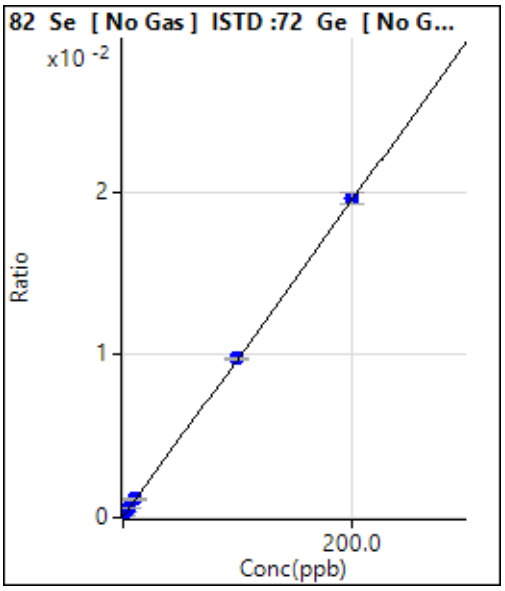



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 138.00 | 0.0002 | P | 5.3 | |
| 2 | ☐ | 2.000 | 1.693 | 316.00 | 0.0004 | P | 10.5 | -15.3 |
| 3 | ☐ | 5.000 | 4.551 | 615.35 | 0.0008 | P | 0.9 | -9.0 |
| 4 | ☐ | 10.000 | 10.163 | 1187.39 | 0.0015 | P | 2.4 | 1.6 |
| 5 | ☐ | 100.000 | 102.912 | 10482.04 | 0.0135 | P | 2.9 | 2.9 |
| 6 | ☐ | 200.000 | 198.550 | 19459.21 | 0.0259 | P | 1.8 | -0.7 |

y = 1.2973E-004 * x + 1.6872E-004
R = 0.9998
DL = 0.2064 ppb
BEC = 1.301 ppb

Weight: <None>
Min Conc: <None>

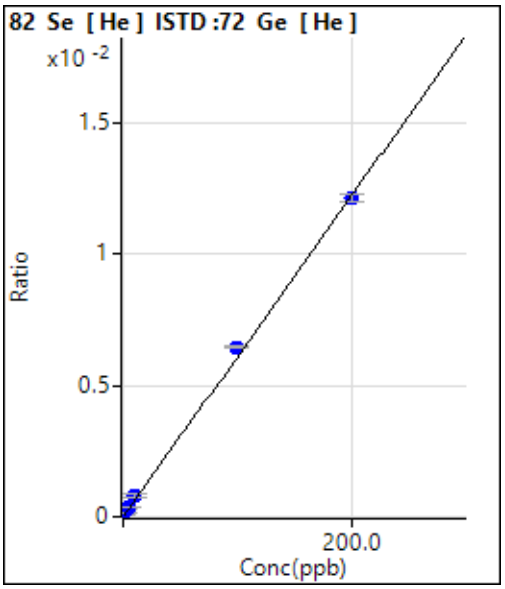
Calibration for 209_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 416.68 | 0.0001 | P | 3.6 | |
| 2 | ☐ | 2.000 | 2.014 | 963.38 | 0.0003 | P | 6.2 | 0.7 |
| 3 | ☐ | 5.000 | 4.844 | 1713.46 | 0.0006 | P | 4.8 | -3.1 |
| 4 | ☐ | 10.000 | 10.130 | 3107.08 | 0.0011 | P | 3.2 | 1.3 |
| 5 | ☐ | 100.000 | 98.961 | 25824.77 | 0.0097 | P | 1.9 | -1.0 |
| 6 | ☐ | 200.000 | 200.517 | 49553.97 | 0.0196 | P | 3.4 | 0.3 |

y = 9.6974E-005 * x + 1.4785E-004
R = 1.0000
DL = 0.1636 ppb
BEC = 1.525 ppb

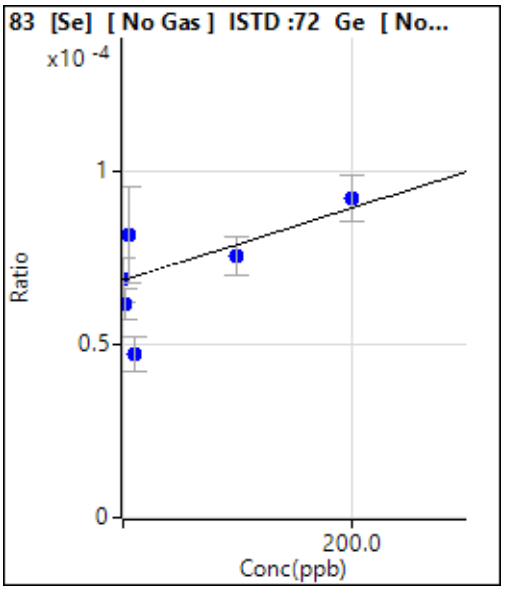
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 46.67 | 0.0001 | P | 44.5 | |
| 2 | ☐ | 2.000 | 2.685 | 180.00 | 0.0002 | P | 41.8 | 34.3 |
| 3 | ☐ | 5.000 | 4.988 | 293.34 | 0.0004 | P | 3.3 | -0.2 |
| 4 | ☐ | 10.000 | 12.258 | 643.36 | 0.0008 | P | 24.4 | 22.6 |
| 5 | ☐ | 100.000 | 104.690 | 5004.34 | 0.0065 | P | 0.7 | 4.7 |
| 6 | ☐ | 200.000 | 197.535 | 9103.22 | 0.0121 | P | 2.3 | -1.2 |

y = 6.1104E-005 * x + 5.7039E-005
R = 0.9996
DL = 1.245 ppb
BEC = 0.9335 ppb

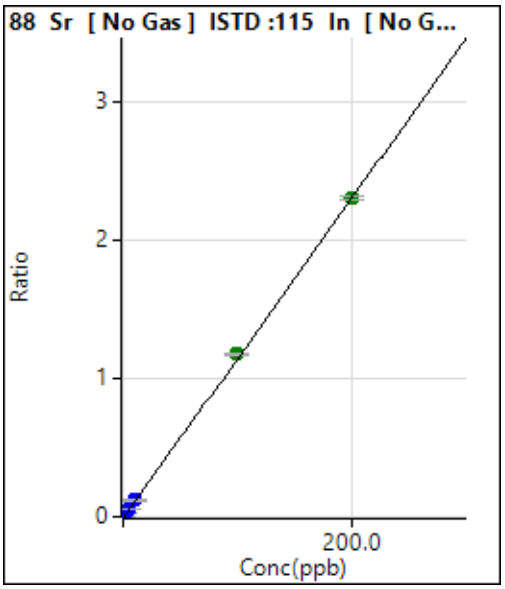
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 193.34 | 0.0001 | P | 18.5 | |
| 2 | ☐ | 2.000 | -65.955 | 173.33 | 0.0001 | P | 14.0 | -3397.8 |
| 3 | ☐ | 5.000 | 125.292 | 226.67 | 0.0001 | P | 33.8 | 2405.8 |
| 4 | ☐ | 10.000 | -204.074 | 130.00 | 0.0000 | P | 20.2 | -2140.7 |
| 5 | ☐ | 100.000 | 65.277 | 200.01 | 0.0001 | P | 14.9 | -34.7 |
| 6 | ☐ | 200.000 | 225.737 | 233.34 | 0.0001 | P | 15.0 | 12.9 |

y = 1.0460E-007 * x + 6.8631E-005
R = 0.6893
DL = 364.3 ppb
BEC = 656.1 ppb

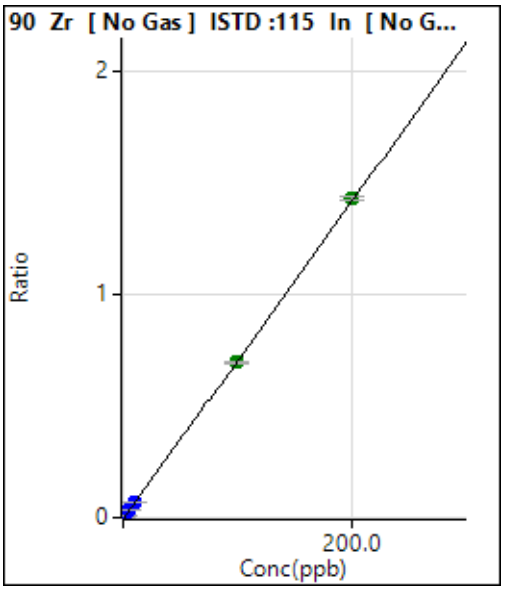
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3007.07 | 0.0007 | P | 5.8 | |
| 2 | ☐ | 2.000 | 2.008 | 97146.72 | 0.0240 | P | 1.7 | 0.4 |
| 3 | ☐ | 5.000 | 4.997 | 235511.23 | 0.0585 | P | 2.4 | -0.1 |
| 4 | ☐ | 10.000 | 10.147 | 470997.78 | 0.1181 | P | 0.7 | 1.5 |
| 5 | ☐ | 100.000 | 101.449 | 4484236.50 | 1.1736 | A | 1.4 | 1.4 |
| 6 | ☐ | 200.000 | 199.268 | 8472793.00 | 2.3045 | A | 1.7 | -0.4 |

y = 0.0116 * x + 7.4438E-004
R = 1.0000
DL = 0.01122 ppb
BEC = 0.06439 ppb

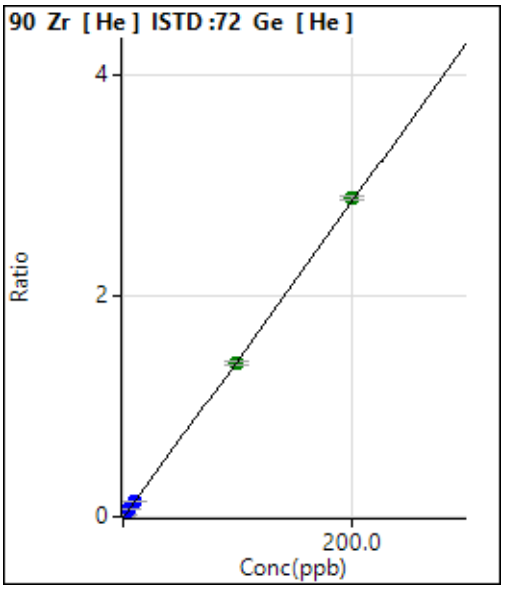
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1166.74 | 0.0003 | P | 4.0 | |
| 2 | ☐ | 2.000 | 1.649 | 48681.20 | 0.0120 | P | 1.3 | -17.5 |
| 3 | ☐ | 5.000 | 4.397 | 126925.13 | 0.0315 | P | 2.1 | -12.1 |
| 4 | ☐ | 10.000 | 9.435 | 268650.03 | 0.0673 | P | 1.9 | -5.6 |
| 5 | ☐ | 100.000 | 97.802 | 2656536.42 | 0.6953 | A | 1.6 | -2.2 |
| 6 | ☐ | 200.000 | 201.146 | 5256189.19 | 1.4296 | A | 1.4 | 0.6 |

y = 0.0071 * x + 2.8879E-004
R = 0.9999
DL = 0.004908 ppb
BEC = 0.04064 ppb

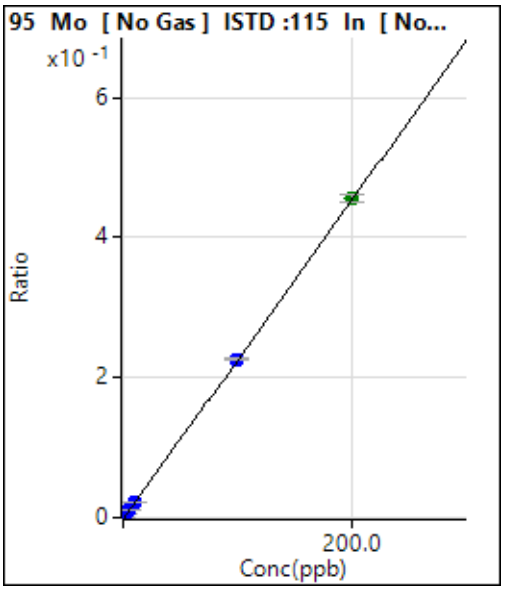
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1580.13 | 0.0019 | P | 5.8 | |
| 2 | ☐ | 2.000 | 1.649 | 20786.23 | 0.0256 | P | 3.7 | -17.6 |
| 3 | ☐ | 5.000 | 4.345 | 52037.15 | 0.0642 | P | 0.9 | -13.1 |
| 4 | ☐ | 10.000 | 9.446 | 109594.93 | 0.1373 | P | 0.9 | -5.5 |
| 5 | ☐ | 100.000 | 96.984 | 1078872.93 | 1.3915 | A | 1.9 | -3.0 |
| 6 | ☐ | 200.000 | 201.556 | 2168912.26 | 2.8898 | A | 1.2 | 0.8 |

y = 0.0143 * x + 0.0019
R = 0.9999
DL = 0.02339 ppb
BEC = 0.1348 ppb

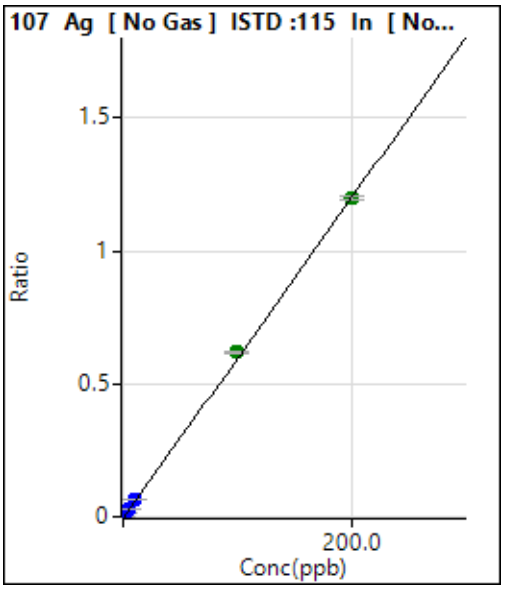
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 116.67 | 0.0000 | P | 16.9 | |
| 2 | ☐ | 2.000 | 1.914 | 17771.87 | 0.0044 | P | 2.3 | -4.3 |
| 3 | ☐ | 5.000 | 4.799 | 44068.87 | 0.0109 | P | 2.8 | -4.0 |
| 4 | ☐ | 10.000 | 9.833 | 89384.91 | 0.0224 | P | 1.4 | -1.7 |
| 5 | ☐ | 100.000 | 99.296 | 863462.44 | 0.2260 | P | 1.3 | -0.7 |
| 6 | ☐ | 200.000 | 200.366 | 1676413.98 | 0.4560 | A | 1.9 | 0.2 |

y = 0.0023 * x + 2.8850E-005
R = 1.0000
DL = 0.00643 ppb
BEC = 0.01268 ppb

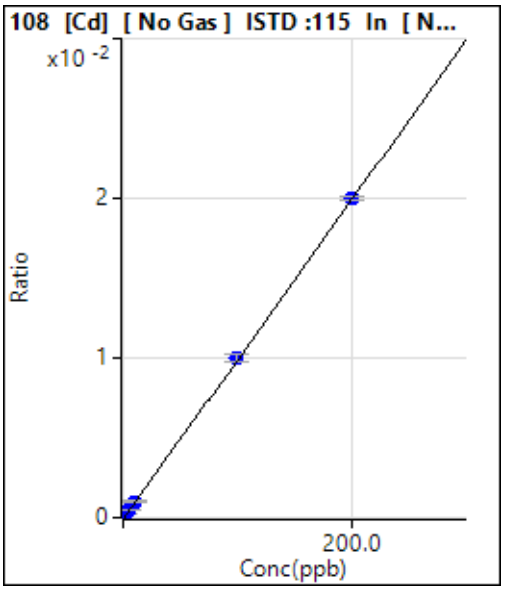
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 450.02 | 0.0001 | P | 12.6 | |
| 2 | ☐ | 2.000 | 2.080 | 51338.61 | 0.0127 | P | 2.5 | 4.0 |
| 3 | ☐ | 5.000 | 5.047 | 123017.80 | 0.0306 | P | 1.6 | 0.9 |
| 4 | ☐ | 10.000 | 10.336 | 249277.87 | 0.0625 | P | 1.4 | 3.4 |
| 5 | ☐ | 100.000 | 102.421 | 2361853.56 | 0.6181 | A | 1.2 | 2.4 |
| 6 | ☐ | 200.000 | 198.771 | 4410141.29 | 1.1995 | A | 1.2 | -0.6 |

y = 0.0060 * x + 1.1147E-004
R = 0.9999
DL = 0.007005 ppb
BEC = 0.01847 ppb

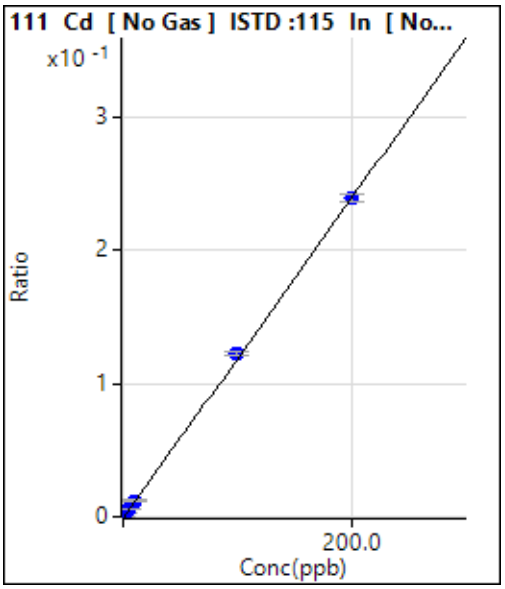
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 0.00 | 0.0000 | P | | |
| 2 | ☐ | 2.000 | 2.333 | 946.72 | 0.0002 | P | 6.5 | 16.7 |
| 3 | ☐ | 5.000 | 4.719 | 1900.18 | 0.0005 | P | 10.7 | -5.6 |
| 4 | ☐ | 10.000 | 9.973 | 3980.68 | 0.0010 | P | 9.3 | -0.3 |
| 5 | ☐ | 100.000 | 99.949 | 38215.00 | 0.0100 | P | 4.1 | -0.1 |
| 6 | ☐ | 200.000 | 200.030 | 73595.60 | 0.0200 | P | 1.6 | 0.0 |

y = 1.0007E-004 * x + 0.0000E+000
R = 1.0000
DL = 0 ppb
BEC = 0 ppb

Weight: <None>
Min Conc: <None>

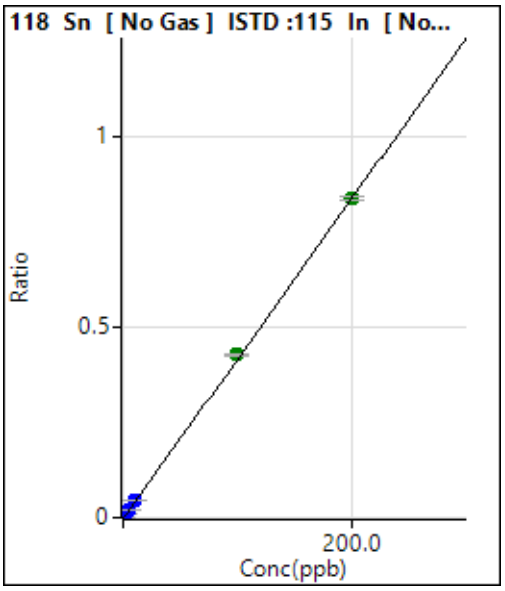



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6.67 | 0.0000 | P | 86.6 | |
| 2 | ☐ | 2.000 | 1.984 | 9665.32 | 0.0024 | P | 4.4 | -0.8 |
| 3 | ☐ | 5.000 | 5.087 | 24597.94 | 0.0061 | P | 3.2 | 1.7 |
| 4 | ☐ | 10.000 | 10.163 | 48707.57 | 0.0122 | P | 2.8 | 1.6 |
| 5 | ☐ | 100.000 | 101.819 | 467296.89 | 0.1223 | P | 2.0 | 1.8 |
| 6 | ☐ | 200.000 | 199.080 | 879105.76 | 0.2391 | P | 2.0 | -0.5 |

y = 0.0012 * x + 1.6433E-006
R = 0.9999
DL = 0.003555 ppb
BEC = 0.001368 ppb

Weight: <None>
Min Conc: <None>

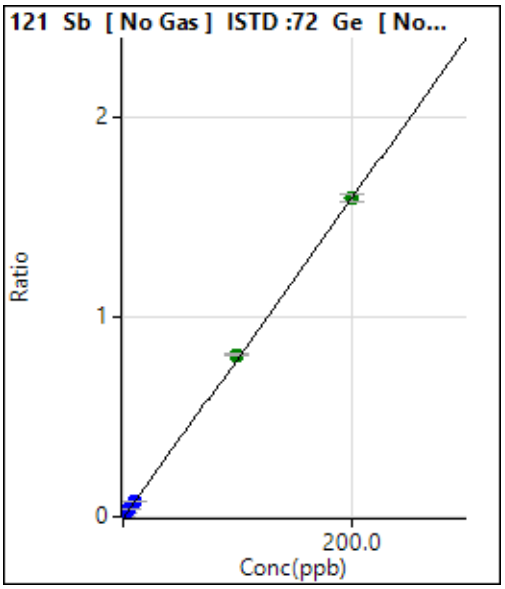
Calibration for 209_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3984.02 | 0.0010 | P | 9.0 | |
| 2 | ☐ | 2.000 | 1.925 | 36764.63 | 0.0091 | P | 2.2 | -3.8 |
| 3 | ☐ | 5.000 | 4.898 | 86748.47 | 0.0216 | P | 1.7 | -2.0 |
| 4 | ☐ | 10.000 | 10.047 | 172261.21 | 0.0432 | P | 0.7 | 0.5 |
| 5 | ☐ | 100.000 | 101.470 | 1632027.16 | 0.4271 | A | 1.4 | 1.5 |
| 6 | ☐ | 200.000 | 199.266 | 3080277.66 | 0.8378 | A | 1.1 | -0.4 |

y = 0.0042 * x + 9.8668E-004
R = 1.0000
DL = 0.06316 ppb
BEC = 0.235 ppb

Weight: <None>
Min Conc: <None>

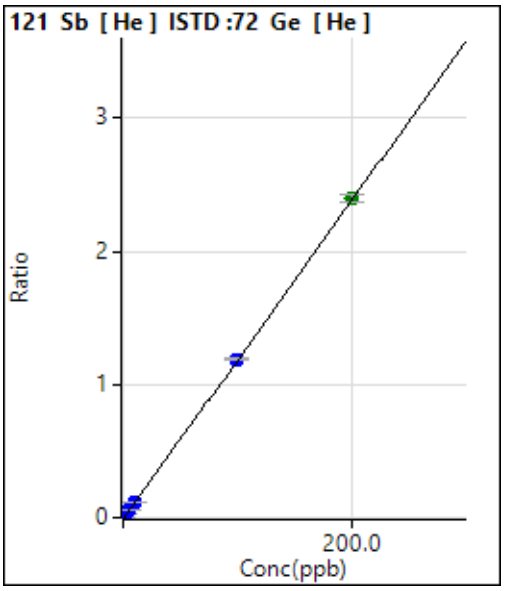



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 663.36 | 0.0002 | P | 9.6 | |
| 2 | ☐ | 2.000 | 1.930 | 43929.77 | 0.0157 | P | 0.8 | -3.5 |
| 3 | ☐ | 5.000 | 4.938 | 110093.88 | 0.0397 | P | 2.4 | -1.2 |
| 4 | ☐ | 10.000 | 9.977 | 219796.11 | 0.0800 | P | 1.5 | -0.2 |
| 5 | ☐ | 100.000 | 101.315 | 2146037.68 | 0.8097 | A | 0.8 | 1.3 |
| 6 | ☐ | 200.000 | 199.346 | 4029441.40 | 1.5930 | A | 1.9 | -0.3 |

y = 0.0080 * x + 2.3540E-004
R = 1.0000
DL = 0.008508 ppb
BEC = 0.02946 ppb

Weight: <None>
Min Conc: <None>

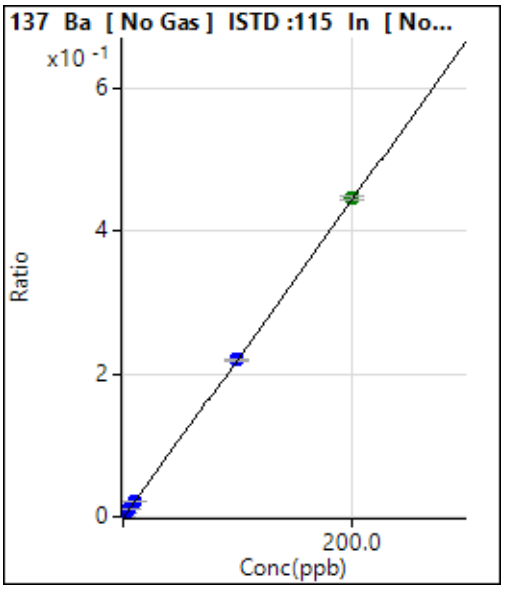
Calibration for 209_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 273.34 | 0.0003 | P | 22.3 | |
| 2 | ☐ | 2.000 | 1.867 | 18446.43 | 0.0227 | P | 1.9 | -6.7 |
| 3 | ☐ | 5.000 | 4.820 | 47043.84 | 0.0580 | P | 0.5 | -3.6 |
| 4 | ☐ | 10.000 | 9.988 | 95720.19 | 0.1199 | P | 1.1 | -0.1 |
| 5 | ☐ | 100.000 | 99.166 | 920578.97 | 1.1873 | P | 1.2 | -0.8 |
| 6 | ☐ | 200.000 | 200.423 | 1800814.50 | 2.3993 | A | 2.0 | 0.2 |

y = 0.0120 * x + 3.3416E-004
R = 1.0000
DL = 0.01865 ppb
BEC = 0.02792 ppb

Weight: <None>
Min Conc: <None>

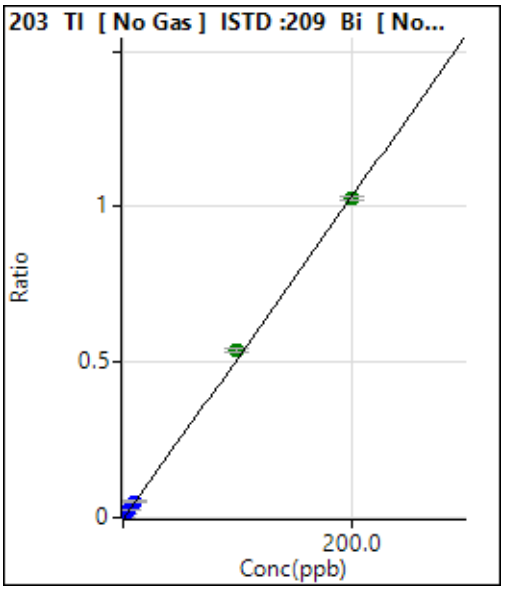



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 900.05 | 0.0002 | P | 14.0 | |
| 2 | ☐ | 2.000 | 1.939 | 18373.16 | 0.0045 | P | 3.7 | -3.0 |
| 3 | ☐ | 5.000 | 4.932 | 45003.93 | 0.0112 | P | 2.3 | -1.4 |
| 4 | ☐ | 10.000 | 9.837 | 88107.71 | 0.0221 | P | 1.8 | -1.6 |
| 5 | ☐ | 100.000 | 98.939 | 840949.78 | 0.2201 | P | 1.2 | -1.1 |
| 6 | ☐ | 200.000 | 200.541 | 1639314.92 | 0.4459 | A | 1.6 | 0.3 |

y = 0.0022 * x + 2.2267E-004
R = 1.0000
DL = 0.04203 ppb
BEC = 0.1002 ppb

Weight: <None>
Min Conc: <None>

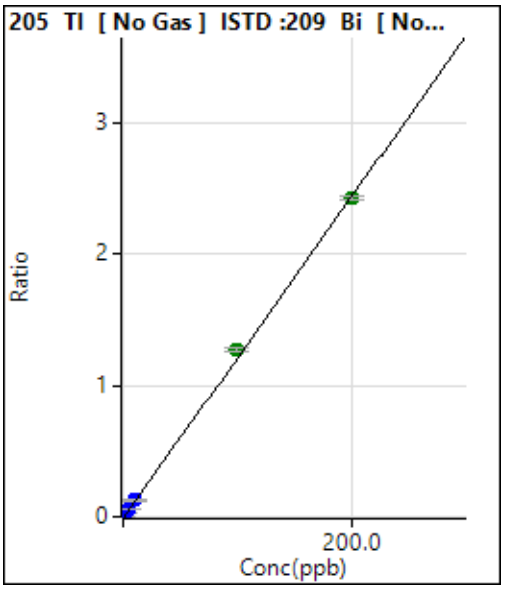
Calibration for 209_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 190.01 | 0.0000 | P | 21.0 | |
| 2 | ☐ | 2.000 | 2.176 | 50571.55 | 0.0113 | P | 2.3 | 8.8 |
| 3 | ☐ | 5.000 | 5.137 | 118435.75 | 0.0267 | P | 1.2 | 2.7 |
| 4 | ☐ | 10.000 | 10.107 | 231998.64 | 0.0524 | P | 1.3 | 1.1 |
| 5 | ☐ | 100.000 | 103.857 | 2304059.76 | 0.5385 | A | 1.9 | 3.9 |
| 6 | ☐ | 200.000 | 198.061 | 4205366.29 | 1.0268 | A | 1.7 | -1.0 |

y = 0.0052 * x + 4.2778E-005
R = 0.9997
DL = 0.005209 ppb
BEC = 0.008252 ppb

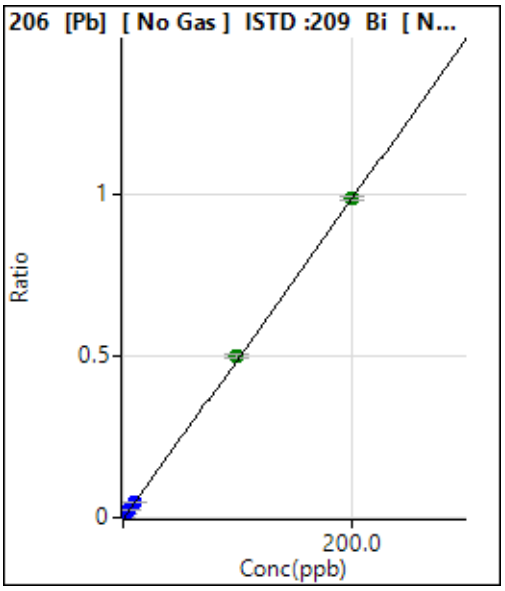
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 520.02 | 0.0001 | P | 13.1 | |
| 2 | ☐ | 2.000 | 2.154 | 118600.08 | 0.0266 | P | 2.0 | 7.7 |
| 3 | ☐ | 5.000 | 5.193 | 283446.79 | 0.0638 | P | 2.3 | 3.9 |
| 4 | ☐ | 10.000 | 10.157 | 551889.00 | 0.1248 | P | 2.2 | 1.6 |
| 5 | ☐ | 100.000 | 103.669 | 5444053.88 | 1.2723 | A | 2.1 | 3.7 |
| 6 | ☐ | 200.000 | 198.152 | 9959070.27 | 2.4317 | A | 1.6 | -0.9 |

y = 0.0123 * x + 1.1716E-004
R = 0.9998
DL = 0.003758 ppb
BEC = 0.009547 ppb

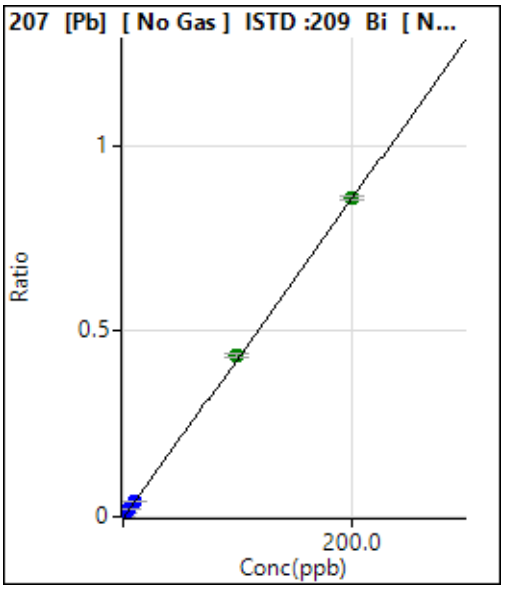
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 633.36 | 0.0001 | P | 3.1 | |
| 2 | ☐ | 2.000 | 1.961 | 43980.49 | 0.0098 | P | 2.1 | -1.9 |
| 3 | ☐ | 5.000 | 4.902 | 108329.47 | 0.0244 | P | 1.9 | -2.0 |
| 4 | ☐ | 10.000 | 10.048 | 220599.62 | 0.0499 | P | 0.7 | 0.5 |
| 5 | ☐ | 100.000 | 100.875 | 2136483.77 | 0.4993 | A | 1.7 | 0.9 |
| 6 | ☐ | 200.000 | 199.563 | 4044745.98 | 0.9876 | A | 1.5 | -0.2 |

y = 0.0049 * x + 1.4255E-004
R = 1.0000
DL = 0.002705 ppb
BEC = 0.02881 ppb

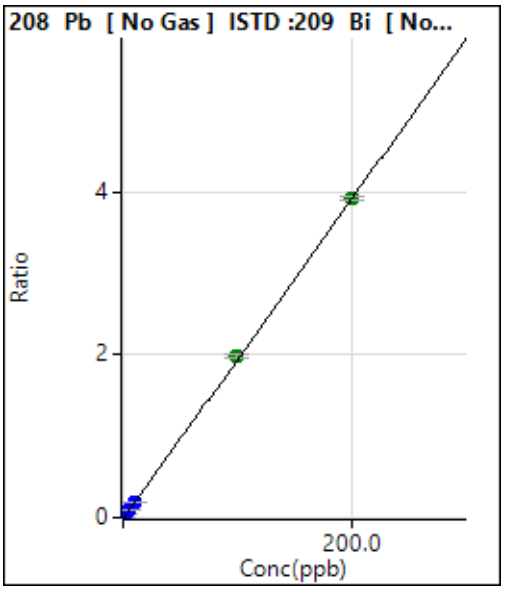
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 516.69 | 0.0001 | P | 8.9 | |
| 2 | ☐ | 2.000 | 1.966 | 38245.14 | 0.0086 | P | 1.5 | -1.7 |
| 3 | ☐ | 5.000 | 4.957 | 95064.08 | 0.0214 | P | 2.3 | -0.9 |
| 4 | ☐ | 10.000 | 10.008 | 190717.36 | 0.0431 | P | 2.1 | 0.1 |
| 5 | ☐ | 100.000 | 100.608 | 1849939.30 | 0.4323 | A | 2.2 | 0.6 |
| 6 | ☐ | 200.000 | 199.697 | 3514092.76 | 0.8580 | A | 1.1 | -0.2 |

y = 0.0043 * x + 1.1632E-004
R = 1.0000
DL = 0.007233 ppb
BEC = 0.02708 ppb

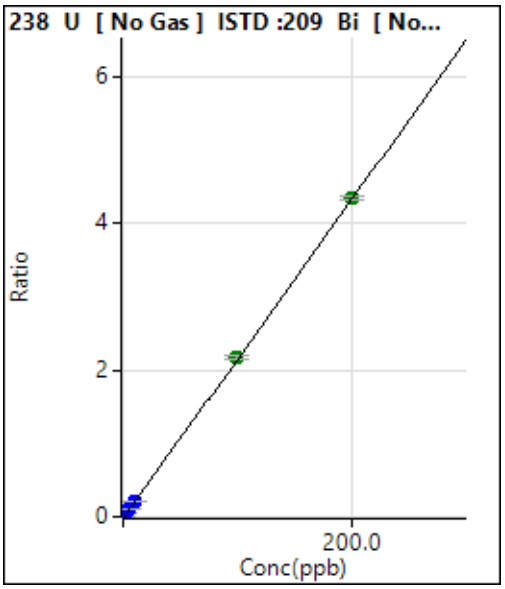
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2453.48 | 0.0006 | P | 9.6 | |
| 2 | ☐ | 2.000 | 1.971 | 175694.29 | 0.0393 | P | 1.5 | -1.5 |
| 3 | ☐ | 5.000 | 4.967 | 436520.08 | 0.0983 | P | 0.8 | -0.7 |
| 4 | ☐ | 10.000 | 10.067 | 879014.41 | 0.1987 | P | 1.4 | 0.7 |
| 5 | ☐ | 100.000 | 100.923 | 8502516.96 | 1.9870 | A | 2.1 | 0.9 |
| 6 | ☐ | 200.000 | 199.536 | 16087250.90 | 3.9280 | A | 1.4 | -0.2 |

y = 0.0197 * x + 5.5256E-004
R = 1.0000
DL = 0.008093 ppb
BEC = 0.02807 ppb

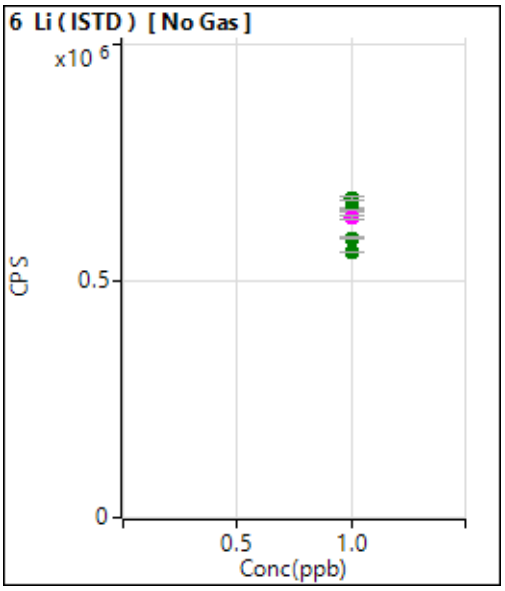
Weight: <None>
Min Conc: <None>



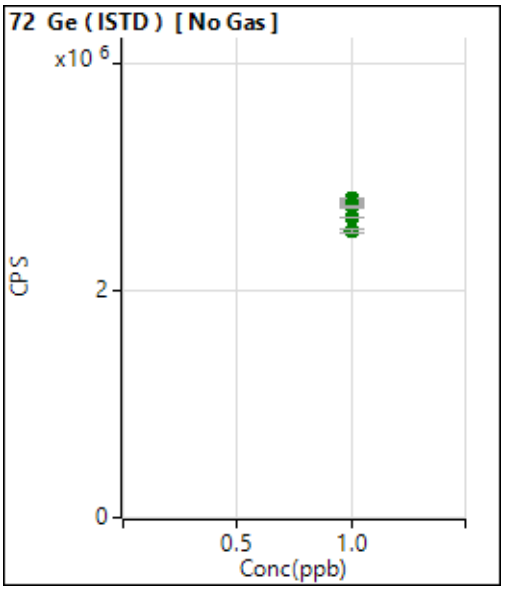

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 946.72 | 0.0002 | P | 11.6 | |
| 2 | ☐ | 2.000 | 1.861 | 181783.88 | 0.0407 | P | 1.6 | -6.9 |
| 3 | ☐ | 5.000 | 4.617 | 446874.67 | 0.1007 | P | 1.2 | -7.7 |
| 4 | ☐ | 10.000 | 9.487 | 913978.76 | 0.2066 | P | 1.6 | -5.1 |
| 5 | ☐ | 100.000 | 100.029 | 9312190.48 | 2.1762 | A | 1.6 | 0.0 |
| 6 | ☐ | 200.000 | 200.022 | 17821171.40 | 4.3514 | A | 1.6 | 0.0 |

y = 0.0218 * x + 2.1323E-004
R = 1.0000
DL = 0.003397 ppb
BEC = 0.009802 ppb

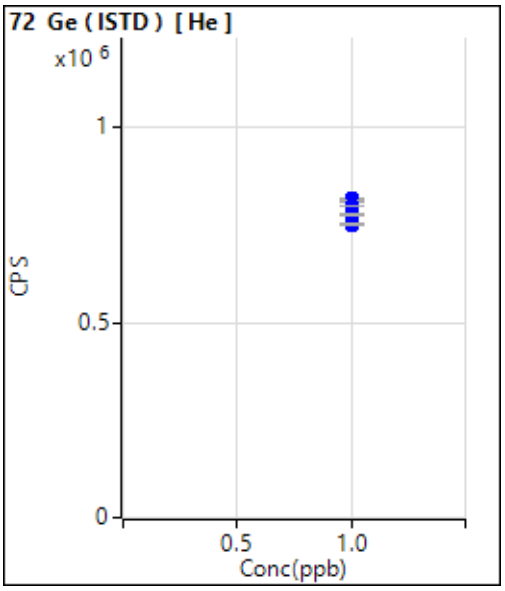
Weight: <None>
Min Conc: <None>



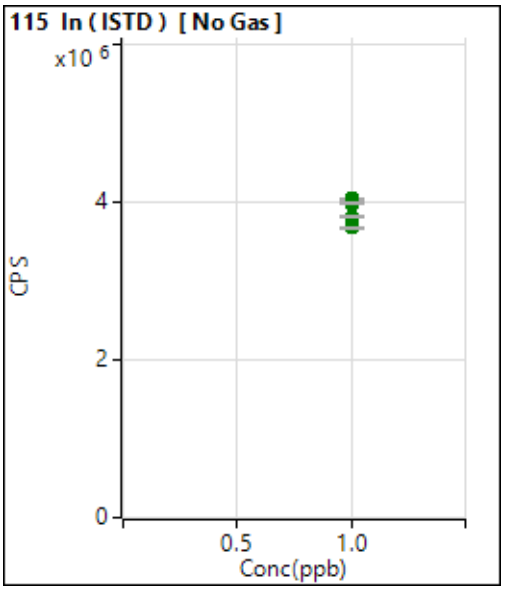

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 676146.54 | | A | 0.9 | |
| 2 | ☐ | 1.000 | | 654864.22 | | A | 0.4 | |
| 3 | ☐ | 1.000 | | 649678.19 | | A | 0.7 | |
| 4 | ☐ | 1.000 | | 635425.95 | | M | 1.2 | |
| 5 | ☐ | 1.000 | | 591754.24 | | A | 0.4 | |
| 6 | ☐ | 1.000 | | 561418.97 | | A | 0.4 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 2818142.46 | | A | 0.5 | |
| 2 | ☐ | 1.000 | | 2806502.77 | | A | 0.5 | |
| 3 | ☐ | 1.000 | | 2774129.65 | | A | 0.5 | |
| 4 | ☐ | 1.000 | | 2748944.44 | | A | 0.7 | |
| 5 | ☐ | 1.000 | | 2650222.57 | | A | 0.3 | |
| 6 | ☐ | 1.000 | | 2529720.64 | | A | 0.9 | |

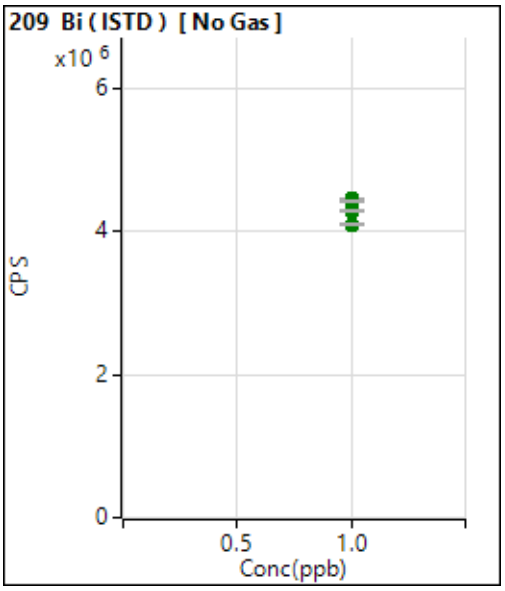



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 817937.77 | | P | 0.3 | |
| 2 | ☐ | 1.000 | | 813344.18 | | P | 0.5 | |
| 3 | ☐ | 1.000 | | 810633.24 | | P | 0.9 | |
| 4 | ☐ | 1.000 | | 798412.41 | | P | 0.2 | |
| 5 | ☐ | 1.000 | | 775375.07 | | P | 0.4 | |
| 6 | ☐ | 1.000 | | 750563.14 | | P | 0.9 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4040052.29 | | A | 1.0 | |
| 2 | ☐ | 1.000 | | 4053897.21 | | A | 0.3 | |
| 3 | ☐ | 1.000 | | 4025000.67 | | A | 0.6 | |
| 4 | ☐ | 1.000 | | 3989670.88 | | A | 0.4 | |
| 5 | ☐ | 1.000 | | 3821163.54 | | A | 0.8 | |
| 6 | ☐ | 1.000 | | 3676850.33 | | A | 0.5 | |

Calibration for 209_ICV.d



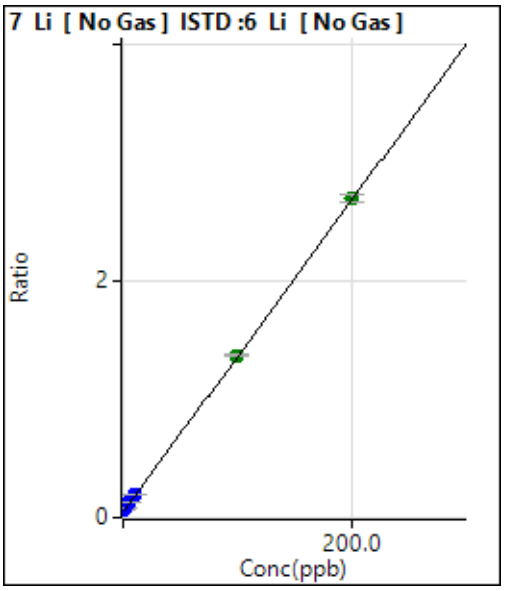

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4442679.10 | | A | 1.1 | |
| 2 | ☐ | 1.000 | | 4465881.39 | | A | 0.5 | |
| 3 | ☐ | 1.000 | | 4439558.99 | | A | 0.5 | |
| 4 | ☐ | 1.000 | | 4424313.06 | | A | 0.7 | |
| 5 | ☐ | 1.000 | | 4279282.33 | | A | 0.7 | |
| 6 | ☐ | 1.000 | | 4095807.86 | | A | 0.9 | |

Calibration for 163_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070124A.b\
Analysis File: 070124A.batch.bin
DA Date-Time: 7/1/2024 11:22:18 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 156CALB.d | CAL BLK | 7/1/2024 5:24:33 PM |
| 2 | 157CALS.d | 2/10/200 | 7/1/2024 5:27:04 PM |
| 3 | 158CALS.d | 5/25/500 | 7/1/2024 5:29:35 PM |
| 4 | 159CALS.d | 10/50/100 | 7/1/2024 5:32:06 PM |
| 5 | 160CALS.d | 100/500/10K | 7/1/2024 5:34:37 PM |
| 6 | 161CALS.d | 200/1000/20K | 7/1/2024 5:37:08 PM |

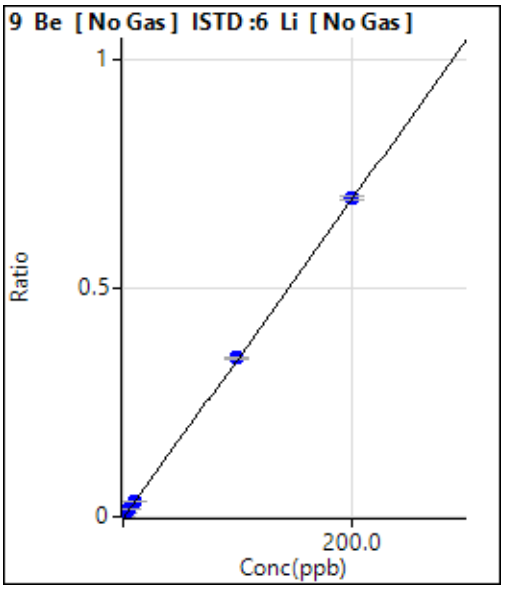
Calibration for 163_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 42264.12 | 0.0597 | P | 1.3 | |
| 2 | ☐ | 2.000 | 1.950 | 59064.99 | 0.0854 | P | 1.0 | -2.5 |
| 3 | ☐ | 5.000 | 4.924 | 83576.35 | 0.1245 | P | 1.2 | -1.5 |
| 4 | ☐ | 10.000 | 9.811 | 123047.15 | 0.1889 | P | 0.9 | -1.9 |
| 5 | ☐ | 100.000 | 99.472 | 816100.98 | 1.3692 | A | 1.7 | -0.5 |
| 6 | ☐ | 200.000 | 200.276 | 1493336.54 | 2.6963 | A | 1.9 | 0.1 |

y = 0.0132 * x + 0.0597
R = 1.0000
DL = 0.1722 ppb
BEC = 4.535 ppb

Weight: <None>
Min Conc: <None>

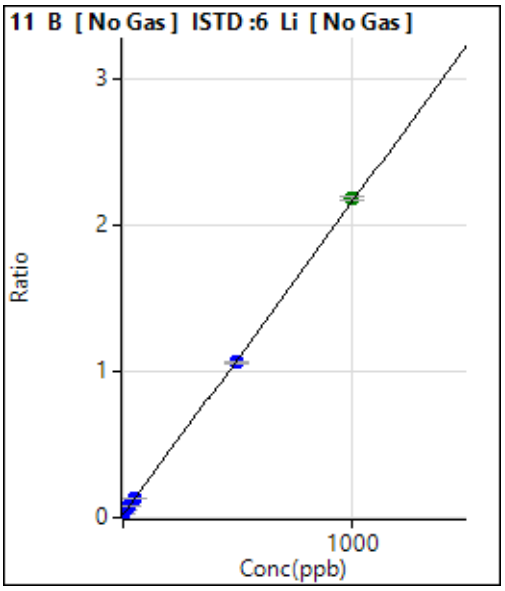



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 36.67 | 0.0001 | P | 27.2 | |
| 2 | ☐ | 2.000 | 1.933 | 4694.14 | 0.0068 | P | 3.5 | -3.3 |
| 3 | ☐ | 5.000 | 4.862 | 11399.64 | 0.0170 | P | 2.9 | -2.8 |
| 4 | ☐ | 10.000 | 9.708 | 22060.50 | 0.0339 | P | 1.7 | -2.9 |
| 5 | ☐ | 100.000 | 99.686 | 206943.22 | 0.3472 | P | 1.9 | -0.3 |
| 6 | ☐ | 200.000 | 200.175 | 386122.84 | 0.6971 | P | 1.1 | 0.1 |

y = 0.0035 * x + 5.1670E-005
R = 1.0000
DL = 0.01213 ppb
BEC = 0.01484 ppb

Weight: <None>
Min Conc: <None>

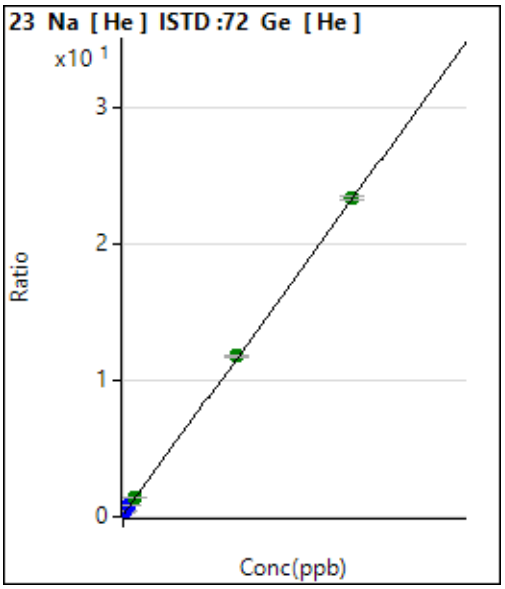
Calibration for 163_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 21718.32 | 0.0307 | P | 1.1 | |
| 2 | ☐ | 10.000 | 8.579 | 33888.72 | 0.0490 | P | 1.1 | -14.2 |
| 3 | ☐ | 25.000 | 22.235 | 52421.16 | 0.0781 | P | 1.3 | -11.1 |
| 4 | ☐ | 50.000 | 46.306 | 84331.47 | 0.1294 | P | 0.3 | -7.4 |
| 5 | ☐ | 500.000 | 483.266 | 632606.99 | 1.0614 | P | 1.3 | -3.3 |
| 6 | ☐ | 1000.000 | 1008.635 | 1208460.82 | 2.1819 | A | 0.8 | 0.9 |

y = 0.0021 * x + 0.0307
R = 0.9998
DL = 0.4721 ppb
BEC = 14.39 ppb

Weight: <None>
Min Conc: <None>

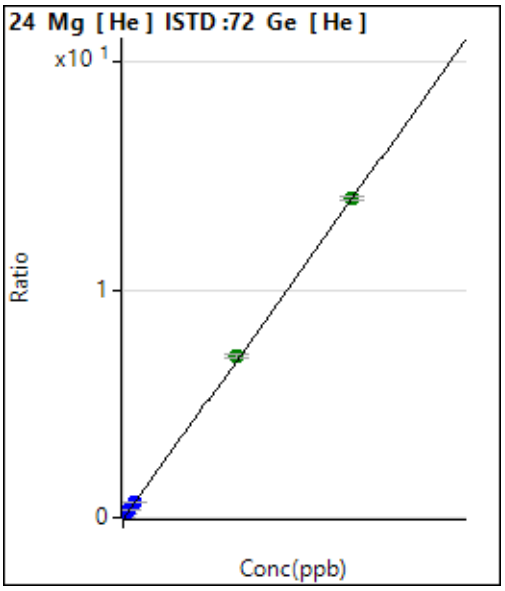



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 215663.67 | 0.2636 | P | 1.1 | |
| 2 | ☐ | 200.000 | 180.054 | 381030.37 | 0.4718 | P | 1.5 | -10.0 |
| 3 | ☐ | 500.000 | 470.962 | 641829.85 | 0.8081 | P | 1.7 | -5.8 |
| 4 | ☐ | 1000.000 | 944.323 | 1058357.77 | 1.3554 | A | 1.8 | -5.6 |
| 5 | ☐ | 10000.00 | 9977.976 | 8831050.70 | 11.7999 | A | 1.6 | -0.2 |
| 6 | ☐ | 20000.00 | 20014.72 | 16844299.33 | 23.4041 | A | 1.4 | 0.1 |

y = 0.0012 * x + 0.2636
R = 1.0000
DL = 7.519 ppb
BEC = 228 ppb

Weight: <None>
Min Conc: <None>

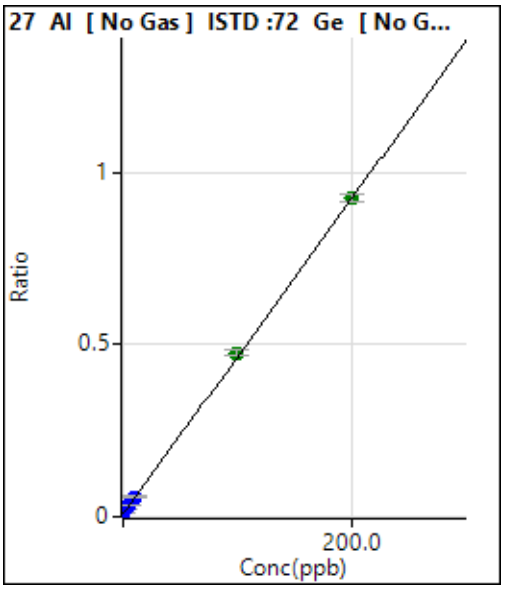
Calibration for 163_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3347.13 | 0.0041 | P | 8.6 | |
| 2 | ☐ | 200.000 | 203.655 | 118880.45 | 0.1472 | P | 2.3 | 1.8 |
| 3 | ☐ | 500.000 | 516.794 | 291664.90 | 0.3672 | P | 1.8 | 3.4 |
| 4 | ☐ | 1000.000 | 1002.320 | 553144.44 | 0.7084 | P | 2.3 | 0.2 |
| 5 | ☐ | 10000.00 | 10074.44 | 5300990.96 | 7.0833 | A | 2.0 | 0.7 |
| 6 | ☐ | 20000.00 | 19962.20 | 10098622.56 | 14.0314 | A | 1.3 | -0.2 |

y = 7.0269E-004 * x + 0.0041
R = 1.0000
DL = 1.496 ppb
BEC = 5.822 ppb

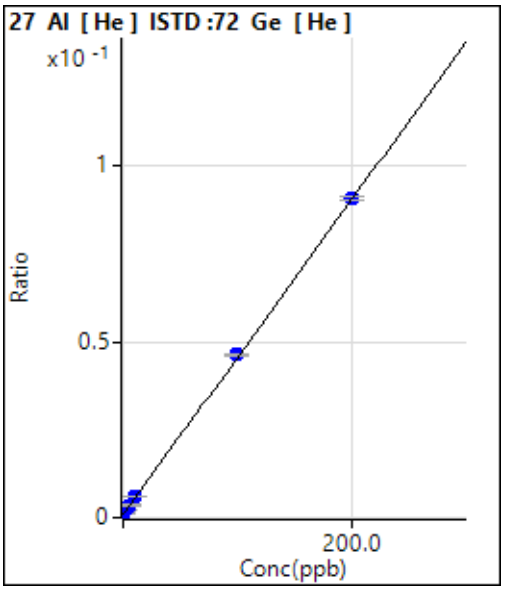
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 35331.37 | 0.0125 | P | 3.0 | |
| 2 | ☐ | 2.000 | 2.075 | 61517.77 | 0.0220 | P | 2.0 | 3.8 |
| 3 | ☐ | 5.000 | 5.053 | 97817.63 | 0.0356 | P | 0.7 | 1.1 |
| 4 | ☐ | 10.000 | 10.042 | 157647.83 | 0.0585 | P | 1.9 | 0.4 |
| 5 | ☐ | 100.000 | 101.315 | 1211160.84 | 0.4764 | A | 3.3 | 1.3 |
| 6 | ☐ | 200.000 | 199.338 | 2250657.00 | 0.9253 | A | 1.9 | -0.3 |

y = 0.0046 * x + 0.0125
R = 1.0000
DL = 0.2461 ppb
BEC = 2.723 ppb

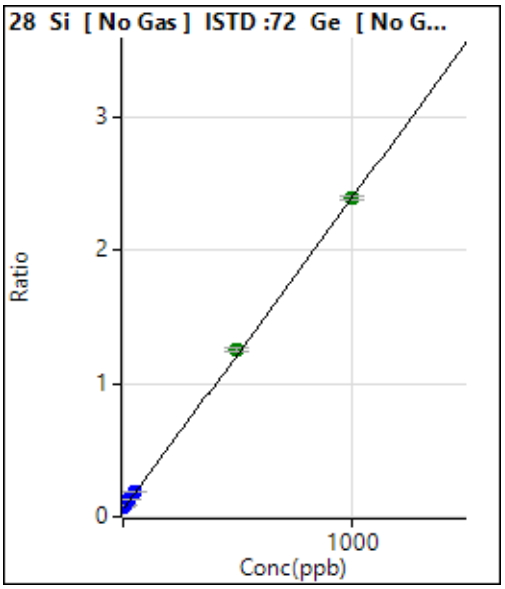
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1096.73 | 0.0013 | P | 9.1 | |
| 2 | ☐ | 2.000 | 1.405 | 1590.12 | 0.0020 | P | 4.8 | -29.8 |
| 3 | ☐ | 5.000 | 4.940 | 2820.33 | 0.0036 | P | 8.7 | -1.2 |
| 4 | ☐ | 10.000 | 9.941 | 4520.81 | 0.0058 | P | 0.8 | -0.6 |
| 5 | ☐ | 100.000 | 100.326 | 34602.82 | 0.0462 | P | 1.9 | 0.3 |
| 6 | ☐ | 200.000 | 199.848 | 65334.74 | 0.0908 | P | 1.7 | -0.1 |

y = 4.4754E-004 * x + 0.0013
R = 1.0000
DL = 0.8189 ppb
BEC = 2.995 ppb

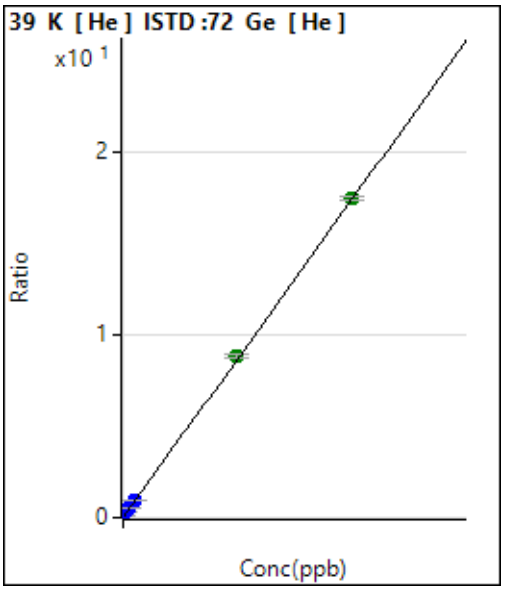
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 187836.87 | 0.0663 | P | 1.1 | |
| 2 | ☐ | 10.000 | 10.424 | 253718.27 | 0.0906 | P | 0.5 | 4.2 |
| 3 | ☐ | 25.000 | 25.553 | 345963.11 | 0.1259 | P | 0.6 | 2.2 |
| 4 | ☐ | 50.000 | 51.063 | 500271.88 | 0.1855 | P | 1.8 | 2.1 |
| 5 | ☐ | 500.000 | 507.315 | 3179637.76 | 1.2507 | A | 2.9 | 1.5 |
| 6 | ☐ | 1000.000 | 996.271 | 5818730.95 | 2.3922 | A | 1.6 | -0.4 |

y = 0.0023 * x + 0.0663
R = 1.0000
DL = 0.9517 ppb
BEC = 28.4 ppb

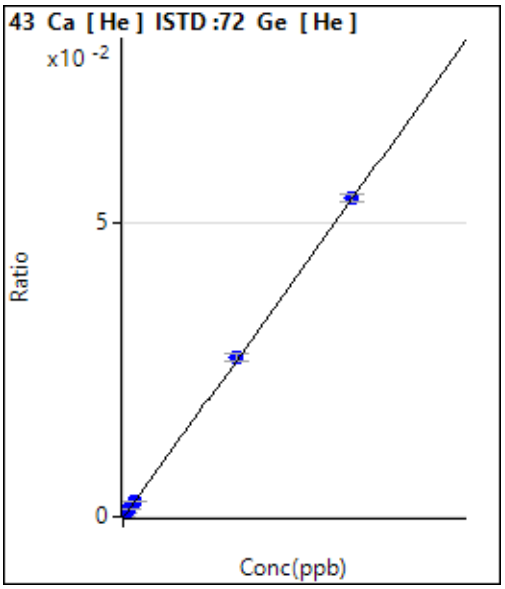
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 80914.02 | 0.0989 | P | 0.5 | |
| 2 | ☐ | 200.000 | 204.750 | 223390.15 | 0.2766 | P | 2.1 | 2.4 |
| 3 | ☐ | 500.000 | 519.028 | 436318.40 | 0.5494 | P | 2.0 | 3.8 |
| 4 | ☐ | 1000.000 | 998.254 | 753720.61 | 0.9653 | P | 2.4 | -0.2 |
| 5 | ☐ | 10000.00 | 10018.27 | 6581369.07 | 8.7938 | A | 2.4 | 0.2 |
| 6 | ☐ | 20000.00 | 19990.42 | 12558216.06 | 17.4486 | A | 0.9 | 0.0 |

y = 8.6790E-004 * x + 0.0989
R = 1.0000
DL = 1.549 ppb
BEC = 114 ppb

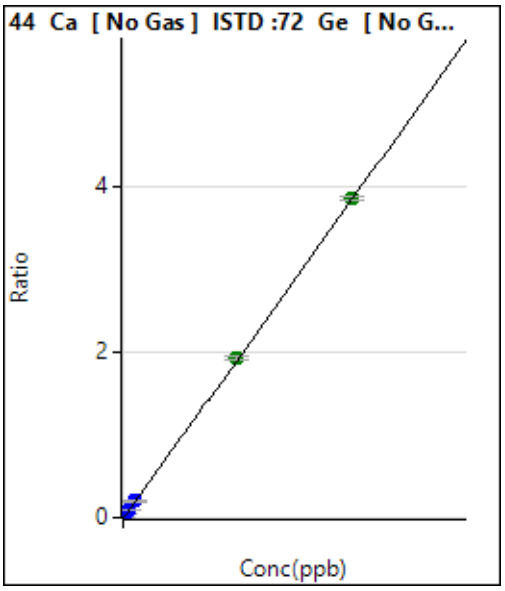
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 33.33 | 0.0000 | P | 34.4 | |
| 2 | ☐ | 200.000 | 221.938 | 520.02 | 0.0006 | P | 3.8 | 11.0 |
| 3 | ☐ | 500.000 | 499.209 | 1110.06 | 0.0014 | P | 10.6 | -0.2 |
| 4 | ☐ | 1000.000 | 949.468 | 2046.86 | 0.0026 | P | 3.6 | -5.1 |
| 5 | ☐ | 10000.00 | 10008.88 | 20388.49 | 0.0272 | P | 5.0 | 0.1 |
| 6 | ☐ | 20000.00 | 19997.88 | 39151.96 | 0.0544 | P | 2.3 | 0.0 |

y = 2.7181E-006 * x + 4.0717E-005
R = 1.0000
DL = 15.47 ppb
BEC = 14.98 ppb

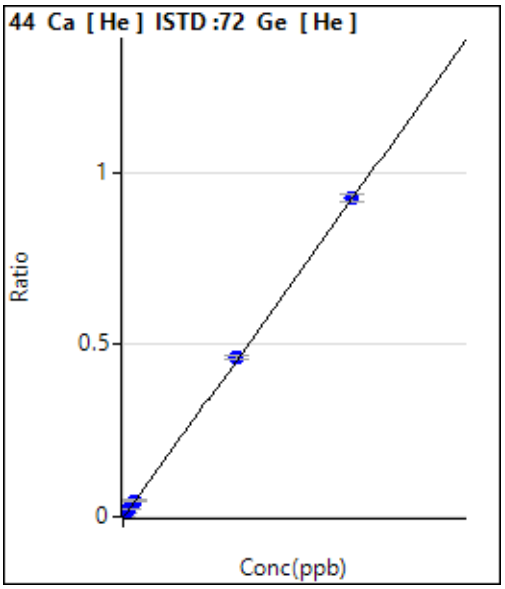
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 13326.57 | 0.0047 | P | 3.3 | |
| 2 | ☐ | 200.000 | 204.493 | 123742.55 | 0.0442 | P | 0.9 | 2.2 |
| 3 | ☐ | 500.000 | 511.953 | 284548.71 | 0.1036 | P | 1.6 | 2.4 |
| 4 | ☐ | 1000.000 | 1010.399 | 538985.91 | 0.1999 | P | 2.2 | 1.0 |
| 5 | ☐ | 10000.00 | 9998.754 | 4921919.09 | 1.9359 | A | 2.8 | 0.0 |
| 6 | ☐ | 20000.00 | 19999.75 | 9407650.49 | 3.8676 | A | 1.7 | 0.0 |

y = 1.9315E-004 * x + 0.0047
R = 1.0000
DL = 2.417 ppb
BEC = 24.35 ppb

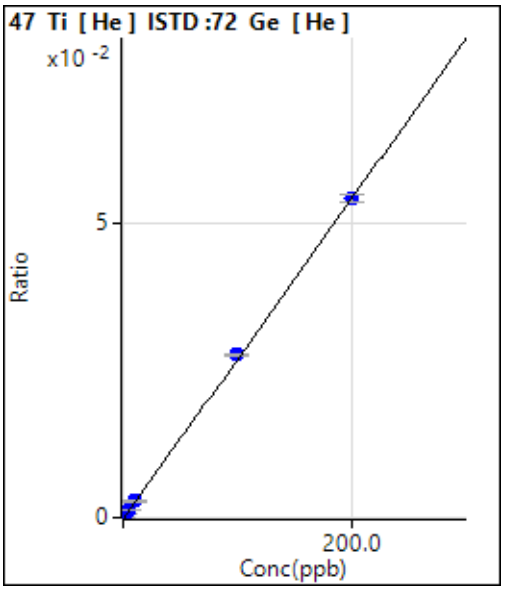
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 583.36 | 0.0007 | P | 11.1 | |
| 2 | ☐ | 200.000 | 204.410 | 8225.89 | 0.0102 | P | 4.4 | 2.2 |
| 3 | ☐ | 500.000 | 506.839 | 19223.59 | 0.0242 | P | 3.8 | 1.4 |
| 4 | ☐ | 1000.000 | 1007.081 | 37002.77 | 0.0474 | P | 2.6 | 0.7 |
| 5 | ☐ | 10000.00 | 10013.44 | 347865.00 | 0.4648 | P | 2.6 | 0.1 |
| 6 | ☐ | 20000.00 | 19992.71 | 667409.34 | 0.9273 | P | 1.9 | 0.0 |

y = 4.6348E-005 * x + 7.1306E-004
R = 1.0000
DL = 5.134 ppb
BEC = 15.38 ppb

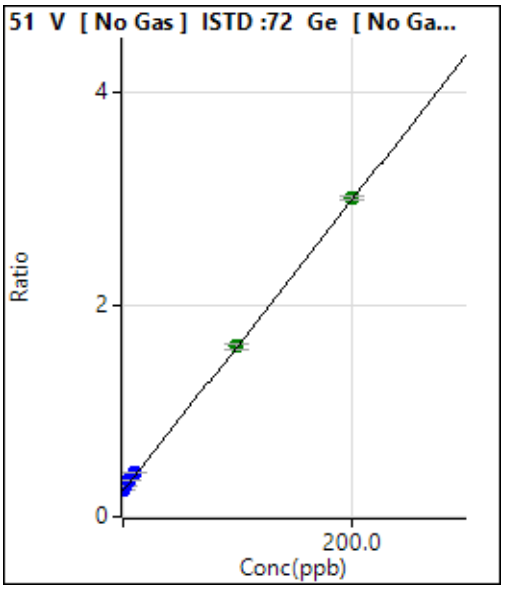
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 16.67 | 0.0000 | P | 91.5 | |
| 2 | ☐ | 2.000 | 1.909 | 436.68 | 0.0005 | P | 8.9 | -4.6 |
| 3 | ☐ | 5.000 | 4.591 | 1010.06 | 0.0013 | P | 3.4 | -8.2 |
| 4 | ☐ | 10.000 | 10.170 | 2180.21 | 0.0028 | P | 5.1 | 1.7 |
| 5 | ☐ | 100.000 | 101.471 | 20715.68 | 0.0277 | P | 2.0 | 1.5 |
| 6 | ☐ | 200.000 | 199.267 | 39105.39 | 0.0543 | P | 1.8 | -0.4 |

y = 2.7257E-004 * x + 2.0322E-005
R = 1.0000
DL = 0.2046 ppb
BEC = 0.07456 ppb

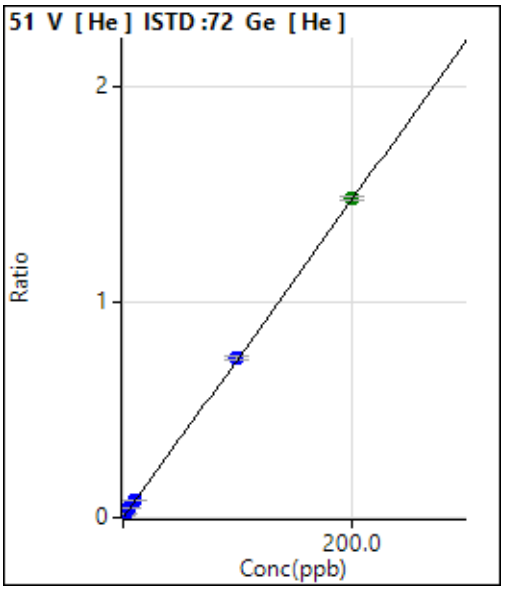
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 731962.02 | 0.2583 | P | 1.2 | |
| 2 | ☐ | 2.000 | 2.550 | 821022.97 | 0.2933 | P | 0.6 | 27.5 |
| 3 | ☐ | 5.000 | 6.029 | 936552.71 | 0.3410 | P | 1.0 | 20.6 |
| 4 | ☐ | 10.000 | 11.482 | 1121095.36 | 0.4157 | P | 1.2 | 14.8 |
| 5 | ☐ | 100.000 | 98.528 | 4090317.01 | 1.6088 | A | 3.2 | -1.5 |
| 6 | ☐ | 200.000 | 200.631 | 7317403.13 | 3.0083 | A | 1.6 | 0.3 |

y = 0.0137 * x + 0.2583
R = 0.9999
DL = 0.6599 ppb
BEC = 18.85 ppb

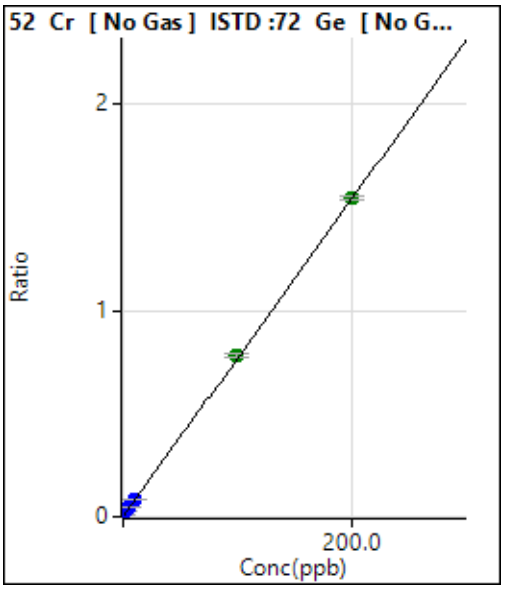
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 5069.84 | 0.0062 | P | 0.8 | |
| 2 | ☐ | 2.000 | 2.011 | 16997.11 | 0.0210 | P | 2.8 | 0.5 |
| 3 | ☐ | 5.000 | 4.998 | 34241.06 | 0.0431 | P | 2.1 | 0.0 |
| 4 | ☐ | 10.000 | 9.782 | 61249.96 | 0.0784 | P | 2.0 | -2.2 |
| 5 | ☐ | 100.000 | 99.808 | 556315.29 | 0.7434 | P | 2.0 | -0.2 |
| 6 | ☐ | 200.000 | 200.107 | 1068152.46 | 1.4841 | A | 1.7 | 0.1 |

y = 0.0074 * x + 0.0062
R = 1.0000
DL = 0.019 ppb
BEC = 0.8391 ppb

Weight: <None>
Min Conc: <None>

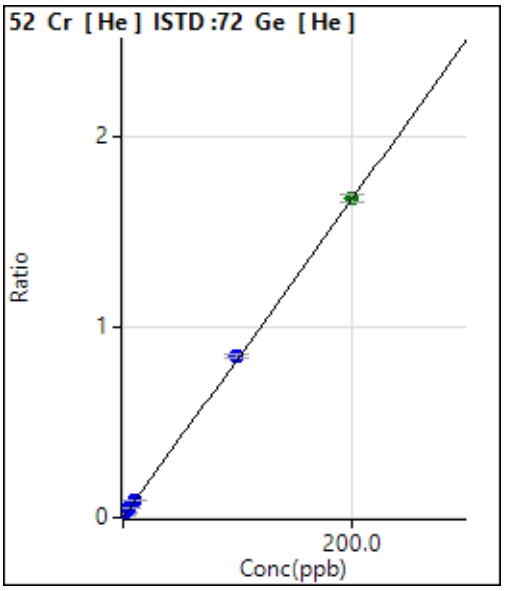



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 26365.32 | 0.0093 | P | 2.8 | |
| 2 | ☐ | 2.000 | 2.090 | 71061.86 | 0.0254 | P | 0.7 | 4.5 |
| 3 | ☐ | 5.000 | 5.220 | 135864.82 | 0.0495 | P | 1.8 | 4.4 |
| 4 | ☐ | 10.000 | 10.107 | 234764.62 | 0.0871 | P | 2.5 | 1.1 |
| 5 | ☐ | 100.000 | 100.522 | 1989602.42 | 0.7825 | A | 2.5 | 0.5 |
| 6 | ☐ | 200.000 | 199.727 | 3759688.80 | 1.5456 | A | 1.4 | -0.1 |

y = 0.0077 * x + 0.0093
R = 1.0000
DL = 0.1017 ppb
BEC = 1.21 ppb

Weight: <None>
Min Conc: <None>

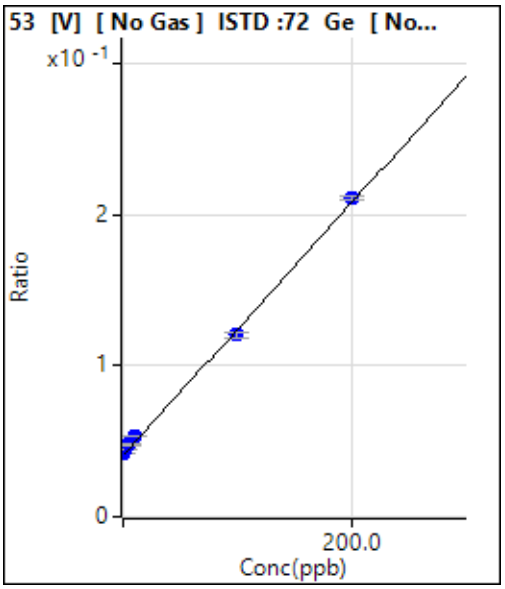
Calibration for 163_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6845.14 | 0.0084 | P | 3.2 | |
| 2 | ☐ | 2.000 | 2.028 | 20418.59 | 0.0253 | P | 3.1 | 1.4 |
| 3 | ☐ | 5.000 | 5.115 | 40532.94 | 0.0510 | P | 3.0 | 2.3 |
| 4 | ☐ | 10.000 | 9.989 | 71597.76 | 0.0917 | P | 1.8 | -0.1 |
| 5 | ☐ | 100.000 | 100.334 | 632624.74 | 0.8453 | P | 2.2 | 0.3 |
| 6 | ☐ | 200.000 | 199.831 | 1205715.71 | 1.6753 | A | 2.3 | -0.1 |

y = 0.0083 * x + 0.0084
R = 1.0000
DL = 0.09646 ppb
BEC = 1.003 ppb

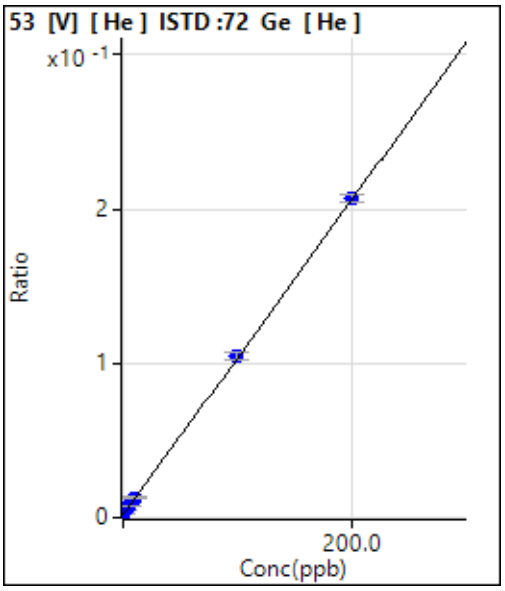
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 118541.11 | 0.0418 | P | 0.9 | |
| 2 | ☐ | 2.000 | 3.546 | 125421.13 | 0.0448 | P | 0.7 | 77.3 |
| 3 | ☐ | 5.000 | 7.472 | 132075.74 | 0.0481 | P | 1.6 | 49.4 |
| 4 | ☐ | 10.000 | 13.822 | 144003.43 | 0.0534 | P | 1.1 | 38.2 |
| 5 | ☐ | 100.000 | 94.275 | 306864.11 | 0.1207 | P | 3.1 | -5.7 |
| 6 | ☐ | 200.000 | 202.594 | 513962.45 | 0.2113 | P | 1.3 | 1.3 |

y = 8.3645E-004 * x + 0.0418
R = 0.9991
DL = 1.379 ppb
BEC = 50.02 ppb

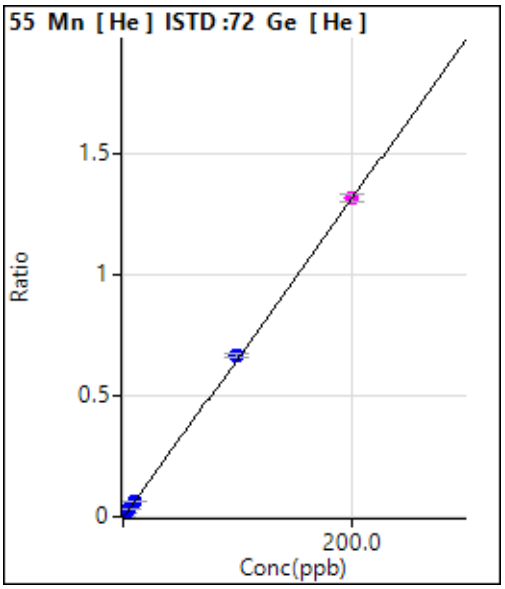
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2246.90 | 0.0027 | P | 2.8 | |
| 2 | ☐ | 2.000 | 1.826 | 3723.91 | 0.0046 | P | 2.0 | -8.7 |
| 3 | ☐ | 5.000 | 4.993 | 6228.19 | 0.0078 | P | 4.2 | -0.1 |
| 4 | ☐ | 10.000 | 10.077 | 10173.91 | 0.0130 | P | 3.5 | 0.8 |
| 5 | ☐ | 100.000 | 99.881 | 78331.27 | 0.1047 | P | 3.8 | -0.1 |
| 6 | ☐ | 200.000 | 200.057 | 148896.70 | 0.2069 | P | 2.3 | 0.0 |

y = 0.0010 * x + 0.0027
R = 1.0000
DL = 0.2276 ppb
BEC = 2.692 ppb

Weight: <None>
Min Conc: <None>

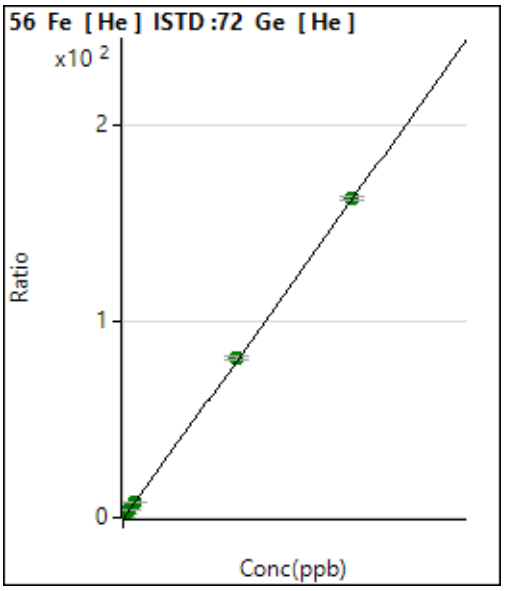



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 773.37 | 0.0009 | P | 2.7 | |
| 2 | ☐ | 2.000 | 1.983 | 11314.81 | 0.0140 | P | 4.0 | -0.9 |
| 3 | ☐ | 5.000 | 4.980 | 26812.96 | 0.0338 | P | 1.2 | -0.4 |
| 4 | ☐ | 10.000 | 9.910 | 51720.51 | 0.0662 | P | 2.1 | -0.9 |
| 5 | ☐ | 100.000 | 100.600 | 496763.64 | 0.6638 | P | 2.2 | 0.6 |
| 6 | ☐ | 200.000 | 199.705 | 947676.76 | 1.3168 | M | 2.4 | -0.1 |

y = 0.0066 * x + 9.4537E-004
R = 1.0000
DL = 0.01162 ppb
BEC = 0.1435 ppb

Weight: <None>
Min Conc: <None>

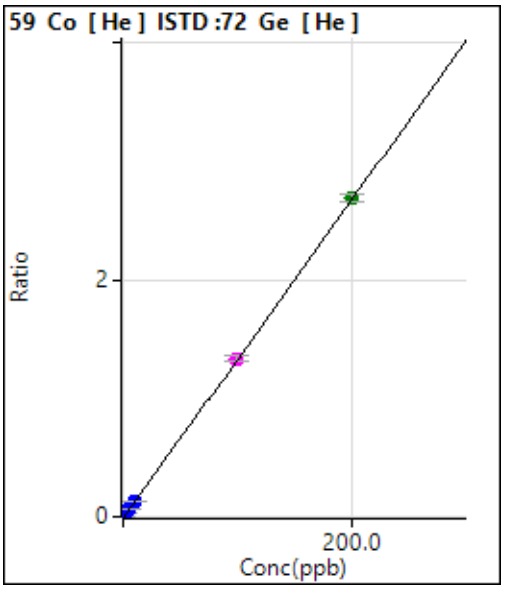
Calibration for 163_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 13730.28 | 0.0168 | P | 1.5 | |
| 2 | ☐ | 200.000 | 198.797 | 1320538.76 | 1.6351 | A | 2.4 | -0.6 |
| 3 | ☐ | 500.000 | 505.734 | 3283166.31 | 4.1339 | A | 1.8 | 1.1 |
| 4 | ☐ | 1000.000 | 993.722 | 6329612.61 | 8.1065 | A | 2.7 | -0.6 |
| 5 | ☐ | 10000.00 | 9982.372 | 60828345.76 | 81.2811 | A | 2.3 | -0.2 |
| 6 | ☐ | 20000.00 | 20008.99 | 117245044.9 | 162.905 | A | 1.6 | 0.0 |

y = 0.0081 * x + 0.0168
R = 1.0000
DL = 0.08983 ppb
BEC = 2.062 ppb

Weight: <None>
Min Conc: <None>

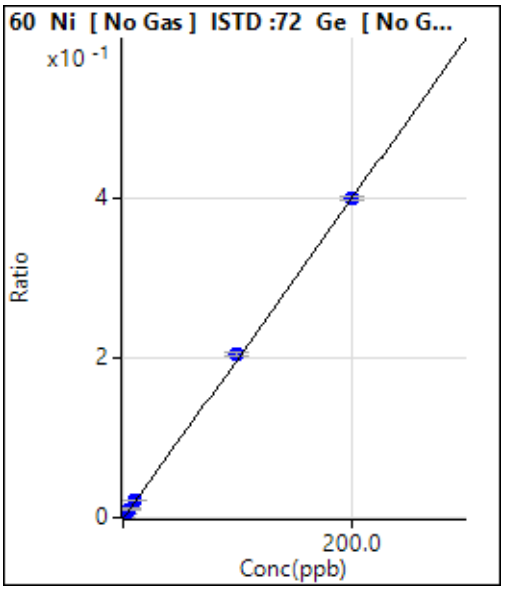



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 110.00 | 0.0001 | P | 24.0 | |
| 2 | ☐ | 2.000 | 1.969 | 21476.99 | 0.0266 | P | 0.8 | -1.5 |
| 3 | ☐ | 5.000 | 5.034 | 53832.06 | 0.0678 | P | 3.9 | 0.7 |
| 4 | ☐ | 10.000 | 9.806 | 102986.21 | 0.1319 | P | 1.9 | -1.9 |
| 5 | ☐ | 100.000 | 99.488 | 1000576.47 | 1.3369 | M | 2.6 | -0.5 |
| 6 | ☐ | 200.000 | 200.265 | 1936777.37 | 2.6911 | A | 2.0 | 0.1 |

y = 0.0134 * x + 1.3445E-004
R = 1.0000
DL = 0.007216 ppb
BEC = 0.01001 ppb

Weight: <None>
Min Conc: <None>

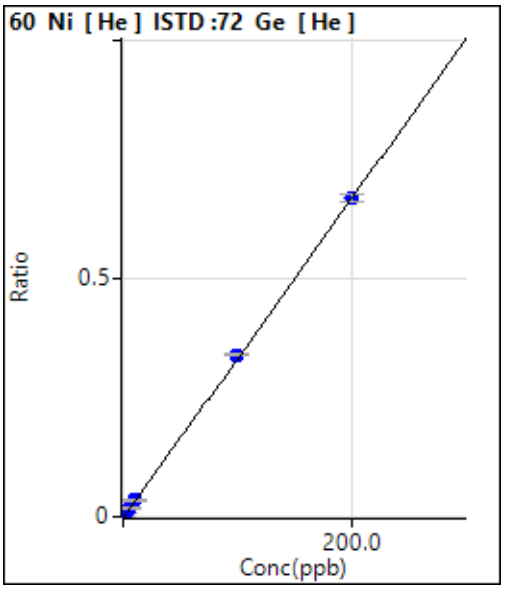
Calibration for 163_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1446.78 | 0.0005 | P | 9.0 | |
| 2 | ☐ | 2.000 | 2.095 | 13166.49 | 0.0047 | P | 0.9 | 4.8 |
| 3 | ☐ | 5.000 | 5.131 | 29605.47 | 0.0108 | P | 2.4 | 2.6 |
| 4 | ☐ | 10.000 | 10.332 | 57135.34 | 0.0212 | P | 1.7 | 3.3 |
| 5 | ☐ | 100.000 | 101.492 | 517667.22 | 0.2036 | P | 2.1 | 1.5 |
| 6 | ☐ | 200.000 | 199.233 | 971011.86 | 0.3992 | P | 1.2 | -0.4 |

y = 0.0020 * x + 5.1042E-004
R = 1.0000
DL = 0.06852 ppb
BEC = 0.2551 ppb

Weight: <None>
Min Conc: <None>

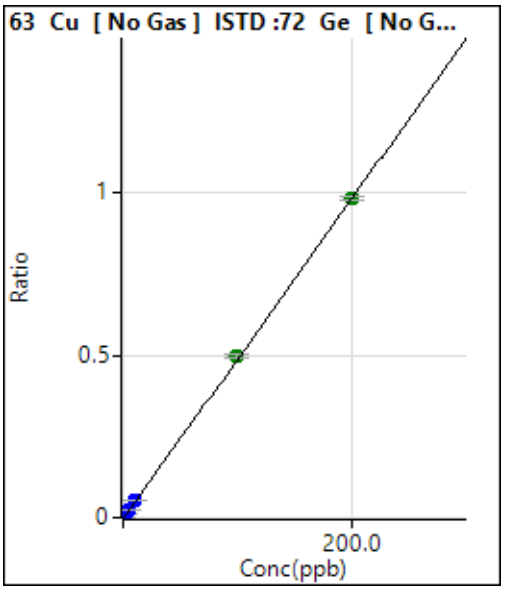



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 200.01 | 0.0002 | P | 26.4 | |
| 2 | ☐ | 2.000 | 1.979 | 5564.56 | 0.0069 | P | 2.8 | -1.0 |
| 3 | ☐ | 5.000 | 5.251 | 14194.21 | 0.0179 | P | 3.9 | 5.0 |
| 4 | ☐ | 10.000 | 10.236 | 27020.09 | 0.0346 | P | 1.9 | 2.4 |
| 5 | ☐ | 100.000 | 101.222 | 254461.10 | 0.3400 | P | 1.4 | 1.2 |
| 6 | ☐ | 200.000 | 199.371 | 481835.16 | 0.6695 | P | 1.9 | -0.3 |

y = 0.0034 * x + 2.4469E-004
R = 1.0000
DL = 0.05764 ppb
BEC = 0.07289 ppb

Weight: <None>
Min Conc: <None>

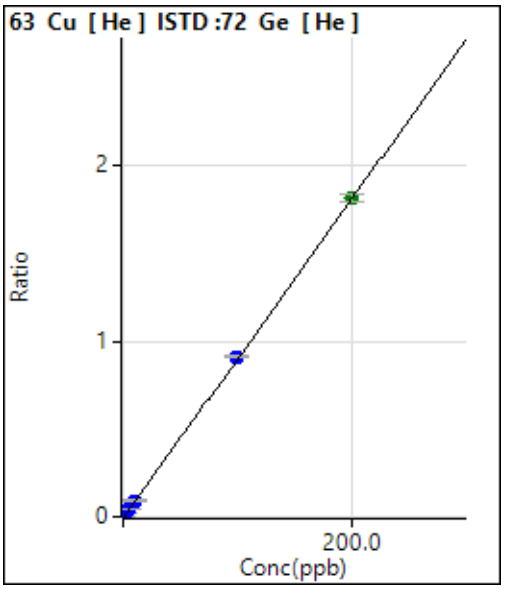
Calibration for 163_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2430.26 | 0.0009 | P | 7.9 | |
| 2 | ☐ | 2.000 | 2.078 | 31038.65 | 0.0111 | P | 1.0 | 3.9 |
| 3 | ☐ | 5.000 | 5.185 | 72486.85 | 0.0264 | P | 0.2 | 3.7 |
| 4 | ☐ | 10.000 | 10.191 | 137632.60 | 0.0510 | P | 2.5 | 1.9 |
| 5 | ☐ | 100.000 | 101.268 | 1269974.51 | 0.4995 | A | 2.2 | 1.3 |
| 6 | ☐ | 200.000 | 199.351 | 2389738.82 | 0.9824 | A | 1.1 | -0.3 |

y = 0.0049 * x + 8.5799E-004
R = 1.0000
DL = 0.04151 ppb
BEC = 0.1742 ppb

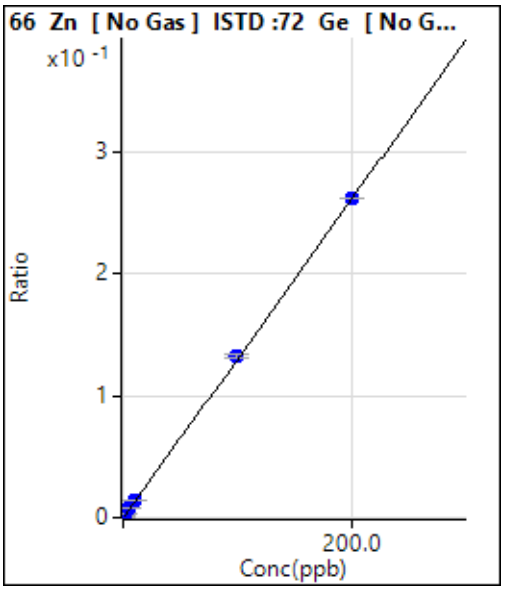
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 543.36 | 0.0007 | P | 11.5 | |
| 2 | ☐ | 2.000 | 2.035 | 15462.25 | 0.0191 | P | 3.6 | 1.8 |
| 3 | ☐ | 5.000 | 5.194 | 37976.08 | 0.0478 | P | 1.1 | 3.9 |
| 4 | ☐ | 10.000 | 10.045 | 71726.60 | 0.0919 | P | 2.6 | 0.5 |
| 5 | ☐ | 100.000 | 100.405 | 682669.99 | 0.9122 | P | 1.0 | 0.4 |
| 6 | ☐ | 200.000 | 199.790 | 1305882.12 | 1.8145 | A | 2.1 | -0.1 |

y = 0.0091 * x + 6.6429E-004
R = 1.0000
DL = 0.02516 ppb
BEC = 0.07317 ppb

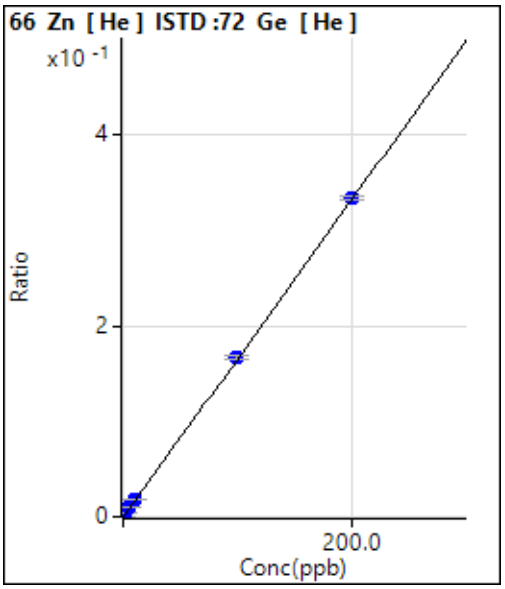
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2296.90 | 0.0008 | P | 6.6 | |
| 2 | ☐ | 2.000 | 2.078 | 9873.72 | 0.0035 | P | 4.3 | 3.9 |
| 3 | ☐ | 5.000 | 5.110 | 20575.69 | 0.0075 | P | 2.7 | 2.2 |
| 4 | ☐ | 10.000 | 10.316 | 38554.36 | 0.0143 | P | 1.1 | 3.2 |
| 5 | ☐ | 100.000 | 100.811 | 337121.65 | 0.1326 | P | 2.1 | 0.8 |
| 6 | ☐ | 200.000 | 199.575 | 636574.29 | 0.2617 | P | 0.4 | -0.2 |

y = 0.0013 * x + 8.1046E-004
R = 1.0000
DL = 0.1228 ppb
BEC = 0.62 ppb

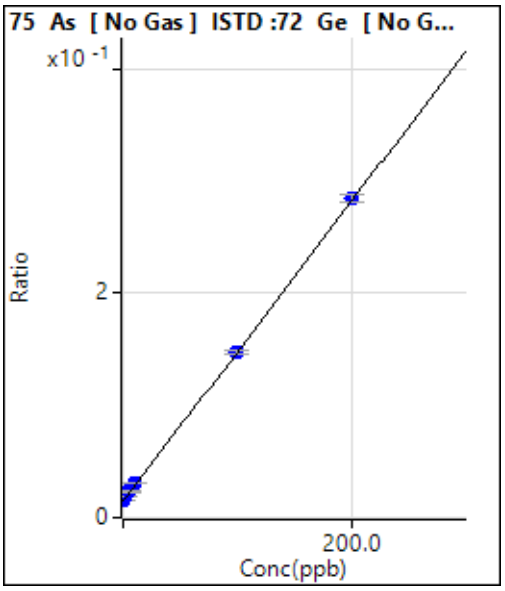
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 806.71 | 0.0010 | P | 3.6 | |
| 2 | ☐ | 2.000 | 2.078 | 3587.20 | 0.0044 | P | 0.8 | 3.9 |
| 3 | ☐ | 5.000 | 5.105 | 7525.53 | 0.0095 | P | 2.8 | 2.1 |
| 4 | ☐ | 10.000 | 9.803 | 13500.13 | 0.0173 | P | 0.8 | -2.0 |
| 5 | ☐ | 100.000 | 99.665 | 124766.01 | 0.1667 | P | 1.5 | -0.3 |
| 6 | ☐ | 200.000 | 200.174 | 240282.09 | 0.3339 | P | 1.6 | 0.1 |

y = 0.0017 * x + 9.8622E-004
R = 1.0000
DL = 0.06373 ppb
BEC = 0.5931 ppb

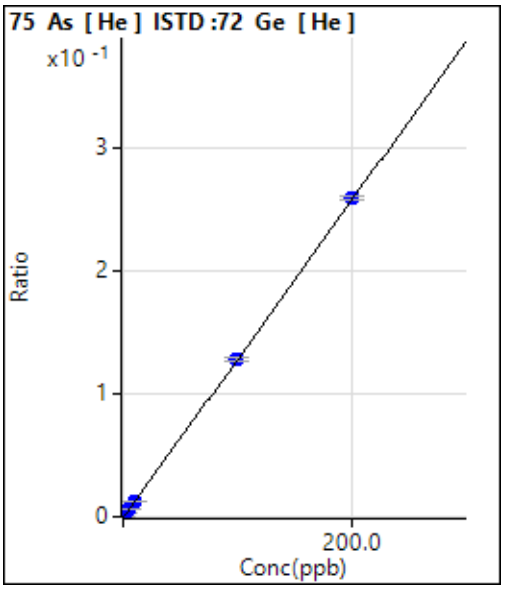
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 45007.99 | 0.0159 | P | 1.9 | |
| 2 | ☐ | 2.000 | 2.024 | 52042.61 | 0.0186 | P | 2.2 | 1.2 |
| 3 | ☐ | 5.000 | 5.455 | 63665.12 | 0.0232 | P | 1.9 | 9.1 |
| 4 | ☐ | 10.000 | 10.910 | 82179.53 | 0.0305 | P | 0.2 | 9.1 |
| 5 | ☐ | 100.000 | 98.203 | 374208.40 | 0.1472 | P | 2.0 | -1.8 |
| 6 | ☐ | 200.000 | 200.841 | 691819.94 | 0.2844 | P | 2.2 | 0.4 |

y = 0.0013 * x + 0.0159
R = 0.9999
DL = 0.6599 ppb
BEC = 11.88 ppb

Weight: <None>
Min Conc: <None>

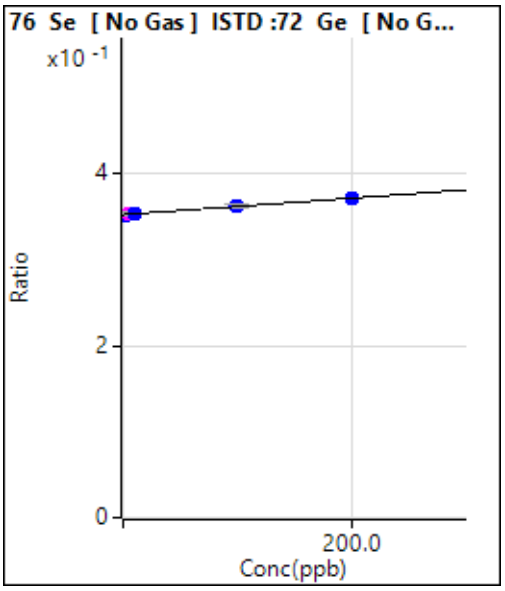



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 266.67 | 0.0003 | P | 9.6 | |
| 2 | ☐ | 2.000 | 1.986 | 2339.10 | 0.0029 | P | 3.0 | -0.7 |
| 3 | ☐ | 5.000 | 4.899 | 5296.61 | 0.0067 | P | 5.2 | -2.0 |
| 4 | ☐ | 10.000 | 9.765 | 10126.02 | 0.0130 | P | 3.6 | -2.4 |
| 5 | ☐ | 100.000 | 99.033 | 96195.03 | 0.1285 | P | 1.7 | -1.0 |
| 6 | ☐ | 200.000 | 200.498 | 187063.29 | 0.2599 | P | 0.8 | 0.2 |

y = 0.0013 * x + 3.2601E-004
R = 1.0000
DL = 0.07266 ppb
BEC = 0.2518 ppb

Weight: <None>
Min Conc: <None>

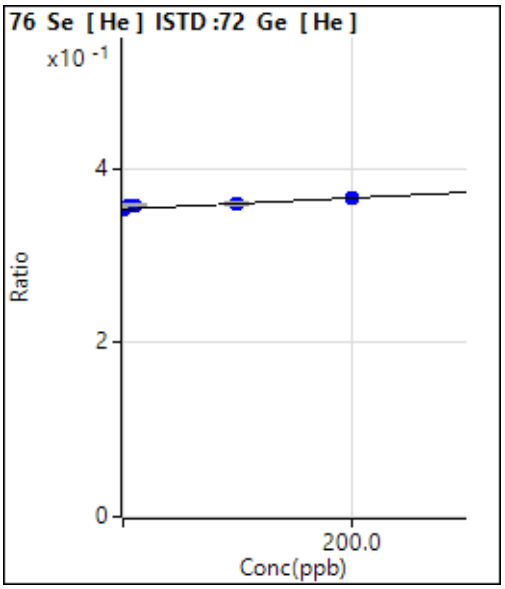
Calibration for 163_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 998333.11 | 0.3523 | M | 1.2 | |
| 2 | ☐ | 2.000 | -7.974 | 984195.71 | 0.3516 | P | 0.4 | -498.7 |
| 3 | ☐ | 5.000 | 14.291 | 971631.13 | 0.3537 | M | 1.3 | 185.8 |
| 4 | ☐ | 10.000 | 8.119 | 952313.37 | 0.3531 | P | 0.3 | -18.8 |
| 5 | ☐ | 100.000 | 106.506 | 922016.68 | 0.3626 | P | 0.7 | 6.5 |
| 6 | ☐ | 200.000 | 196.709 | 903339.70 | 0.3714 | P | 0.6 | -1.6 |

y = 9.6737E-005 * x + 0.3523
R = 0.9964
DL = 126.6 ppb
BEC = 3642 ppb

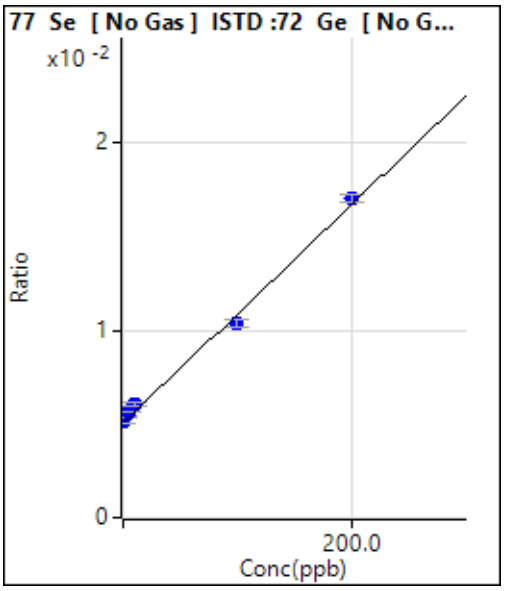
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 289503.37 | 0.3539 | P | 0.6 | |
| 2 | ☐ | 2.000 | 36.263 | 287723.25 | 0.3562 | P | 1.0 | 1713.2 |
| 3 | ☐ | 5.000 | 62.484 | 284294.40 | 0.3580 | P | 1.2 | 1149.7 |
| 4 | ☐ | 10.000 | 79.437 | 280382.55 | 0.3591 | P | 0.5 | 694.4 |
| 5 | ☐ | 100.000 | 91.474 | 269291.94 | 0.3598 | P | 1.3 | -8.5 |
| 6 | ☐ | 200.000 | 199.012 | 264034.70 | 0.3668 | P | 0.4 | -0.5 |

y = 6.5140E-005 * x + 0.3539
R = 0.9176
DL = 104.5 ppb
BEC = 5433 ppb

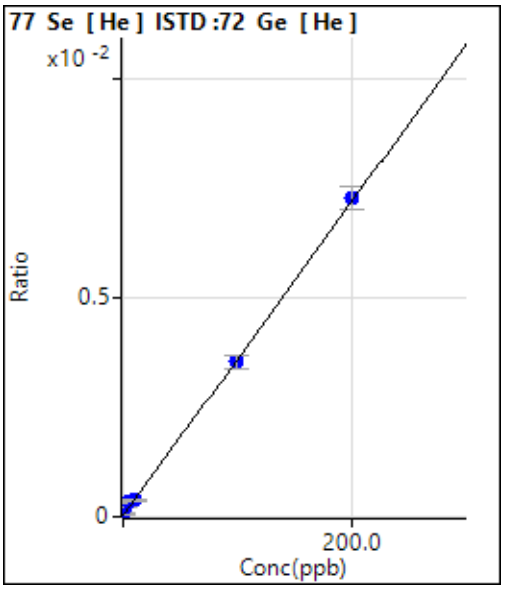
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 14604.76 | 0.0052 | P | 5.7 | |
| 2 | ☐ | 2.000 | 4.531 | 15168.67 | 0.0054 | P | 2.8 | 126.5 |
| 3 | ☐ | 5.000 | 8.739 | 15555.73 | 0.0057 | P | 0.9 | 74.8 |
| 4 | ☐ | 10.000 | 15.485 | 16330.01 | 0.0061 | P | 2.3 | 54.9 |
| 5 | ☐ | 100.000 | 89.867 | 26379.23 | 0.0104 | P | 3.8 | -10.1 |
| 6 | ☐ | 200.000 | 204.673 | 41470.13 | 0.0170 | P | 2.2 | 2.3 |

y = 5.8106E-005 * x + 0.0052
R = 0.9975
DL = 15.08 ppb
BEC = 88.72 ppb

Weight: <None>
Min Conc: <None>

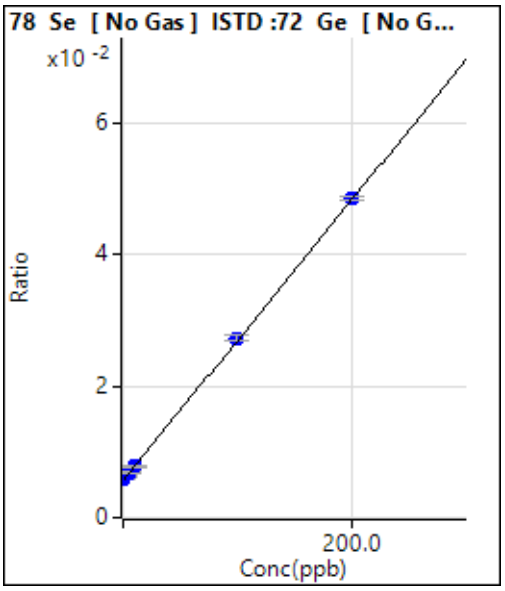



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 50.00 | 0.0001 | P | 20.0 | |
| 2 | ☐ | 2.000 | 4.746 | 186.67 | 0.0002 | P | 6.7 | 137.3 |
| 3 | ☐ | 5.000 | 7.666 | 266.68 | 0.0003 | P | 7.9 | 53.3 |
| 4 | ☐ | 10.000 | 8.901 | 296.68 | 0.0004 | P | 14.4 | -11.0 |
| 5 | ☐ | 100.000 | 97.081 | 2650.31 | 0.0035 | P | 8.7 | -2.9 |
| 6 | ☐ | 200.000 | 201.420 | 5237.76 | 0.0073 | P | 7.3 | 0.7 |

y = 3.5833E-005 * x + 6.1113E-005
R = 0.9996
DL = 1.022 ppb
BEC = 1.705 ppb

Weight: <None>
Min Conc: <None>

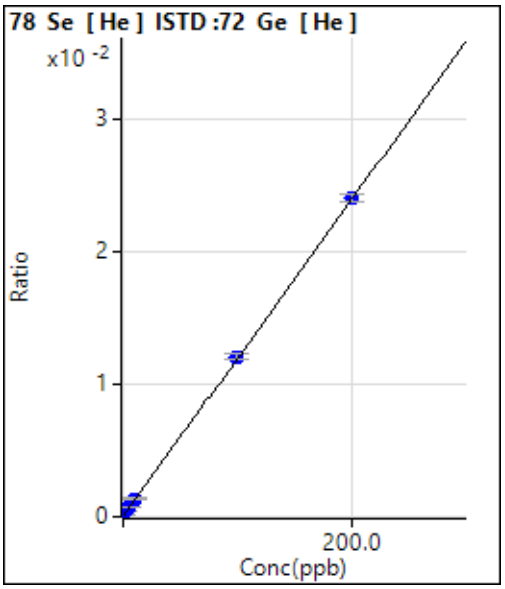
Calibration for 163_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 16787.24 | 0.0059 | P | 5.0 | |
| 2 | ☐ | 2.000 | 1.837 | 17681.71 | 0.0063 | P | 0.9 | -8.1 |
| 3 | ☐ | 5.000 | 4.427 | 18866.69 | 0.0069 | P | 1.0 | -11.5 |
| 4 | ☐ | 10.000 | 8.819 | 21049.92 | 0.0078 | P | 1.7 | -11.8 |
| 5 | ☐ | 100.000 | 99.954 | 69272.57 | 0.0272 | P | 3.3 | 0.0 |
| 6 | ☐ | 200.000 | 200.098 | 118235.99 | 0.0486 | P | 1.2 | 0.0 |

y = 2.1331E-004 * x + 0.0059
R = 1.0000
DL = 4.144 ppb
BEC = 27.77 ppb

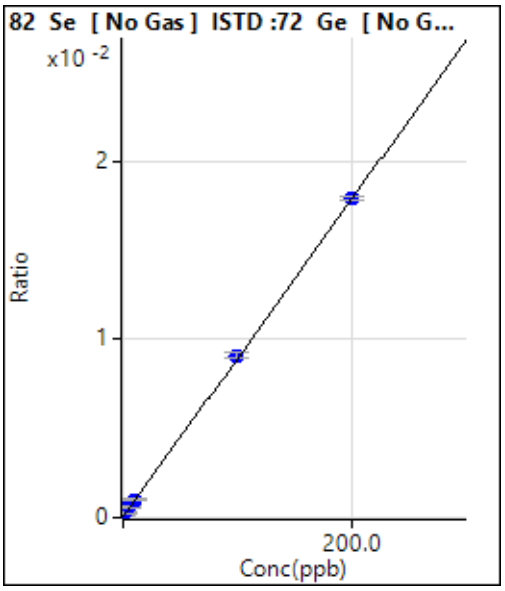
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 129.33 | 0.0002 | P | 11.6 | |
| 2 | ☐ | 2.000 | 1.823 | 304.00 | 0.0004 | P | 2.0 | -8.8 |
| 3 | ☐ | 5.000 | 5.074 | 608.02 | 0.0008 | P | 1.6 | 1.5 |
| 4 | ☐ | 10.000 | 9.948 | 1053.38 | 0.0013 | P | 4.9 | -0.5 |
| 5 | ☐ | 100.000 | 99.956 | 9075.05 | 0.0121 | P | 3.1 | 0.0 |
| 6 | ☐ | 200.000 | 200.024 | 17350.39 | 0.0241 | P | 1.8 | 0.0 |

y = 1.1973E-004 * x + 1.5805E-004
R = 1.0000
DL = 0.4605 ppb
BEC = 1.32 ppb

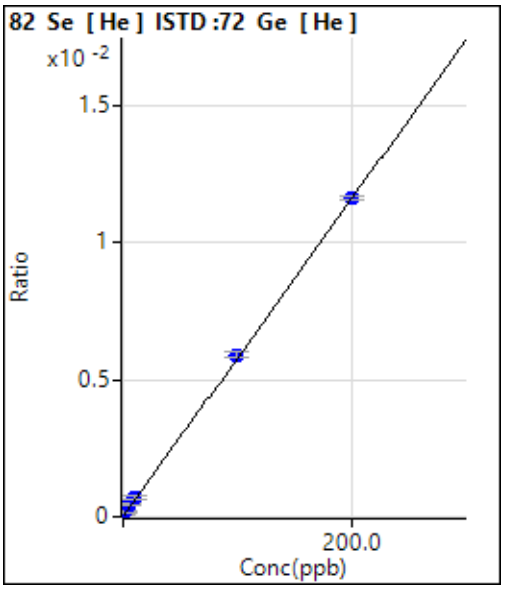
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 390.01 | 0.0001 | P | 22.7 | |
| 2 | ☐ | 2.000 | 1.581 | 780.04 | 0.0003 | P | 9.5 | -21.0 |
| 3 | ☐ | 5.000 | 5.375 | 1693.47 | 0.0006 | P | 10.5 | 7.5 |
| 4 | ☐ | 10.000 | 9.573 | 2670.32 | 0.0010 | P | 10.3 | -4.3 |
| 5 | ☐ | 100.000 | 100.825 | 23170.01 | 0.0091 | P | 3.1 | 0.8 |
| 6 | ☐ | 200.000 | 199.604 | 43560.12 | 0.0179 | P | 1.0 | -0.2 |

y = 8.9027E-005 * x + 1.3780E-004
R = 1.0000
DL = 1.054 ppb
BEC = 1.548 ppb

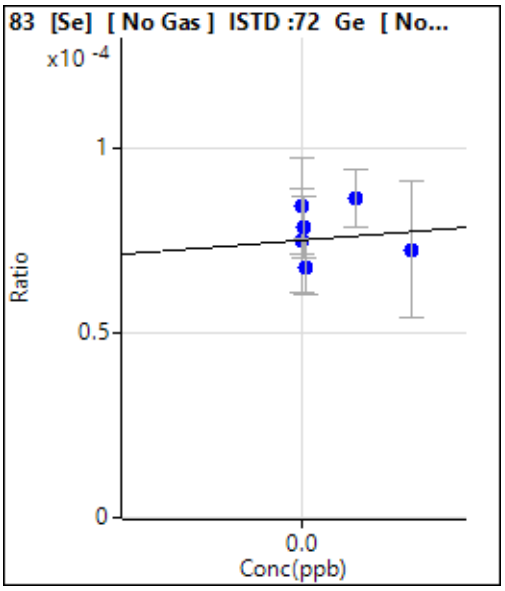
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 53.33 | 0.0001 | P | 21.5 | |
| 2 | ☐ | 2.000 | 2.080 | 150.00 | 0.0002 | P | 30.9 | 4.0 |
| 3 | ☐ | 5.000 | 6.259 | 340.01 | 0.0004 | P | 13.4 | 25.2 |
| 4 | ☐ | 10.000 | 11.324 | 563.36 | 0.0007 | P | 18.4 | 13.2 |
| 5 | ☐ | 100.000 | 100.833 | 4424.14 | 0.0059 | P | 3.2 | 0.8 |
| 6 | ☐ | 200.000 | 199.485 | 8372.72 | 0.0116 | P | 1.5 | -0.3 |

y = 5.7987E-005 * x + 6.5181E-005
R = 1.0000
DL = 0.7259 ppb
BEC = 1.124 ppb

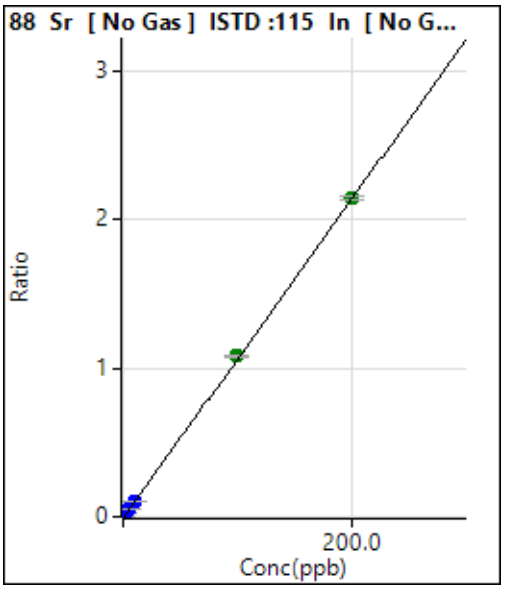
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 213.34 | 0.0001 | P | 37.3 | |
| 2 | ☐ | 2.000 | 794.313 | 236.67 | 0.0001 | P | 31.2 | 39615. |
| 3 | ☐ | 5.000 | 319.097 | 216.67 | 0.0001 | P | 21.2 | 6281.9 |
| 4 | ☐ | 10.000 | -617.617 | 183.34 | 0.0001 | P | 22.2 | -6276.2 |
| 5 | ☐ | 100.000 | 972.906 | 220.01 | 0.0001 | P | 18.5 | 872.9 |
| 6 | ☐ | 200.000 | -220.848 | 176.67 | 0.0001 | P | 51.4 | -210.4 |

y = 1.1664E-008 * x + 7.5198E-005
R = -0.0636
DL = 7215 ppb
BEC = 6447 ppb

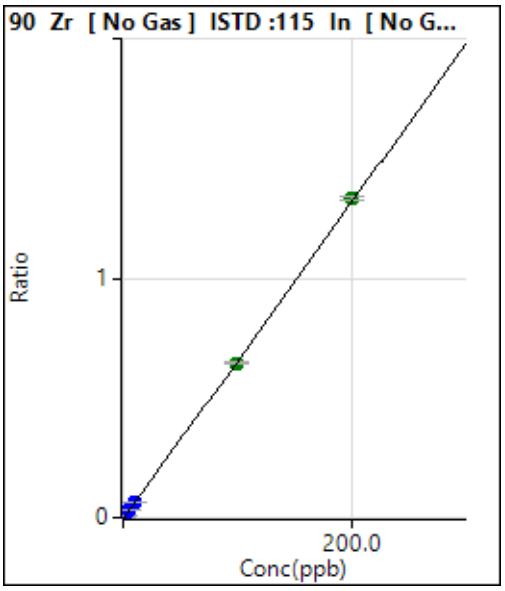
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2516.94 | 0.0006 | P | 6.1 | |
| 2 | ☐ | 2.000 | 2.015 | 88679.59 | 0.0223 | P | 2.6 | 0.8 |
| 3 | ☐ | 5.000 | 5.080 | 218644.09 | 0.0552 | P | 1.2 | 1.6 |
| 4 | ☐ | 10.000 | 10.028 | 420089.51 | 0.1084 | P | 2.0 | 0.3 |
| 5 | ☐ | 100.000 | 100.509 | 4004072.34 | 1.0812 | A | 1.9 | 0.5 |
| 6 | ☐ | 200.000 | 199.742 | 7625902.39 | 2.1480 | A | 1.5 | -0.1 |

y = 0.0108 * x + 6.2110E-004
R = 1.0000
DL = 0.01059 ppb
BEC = 0.05777 ppb

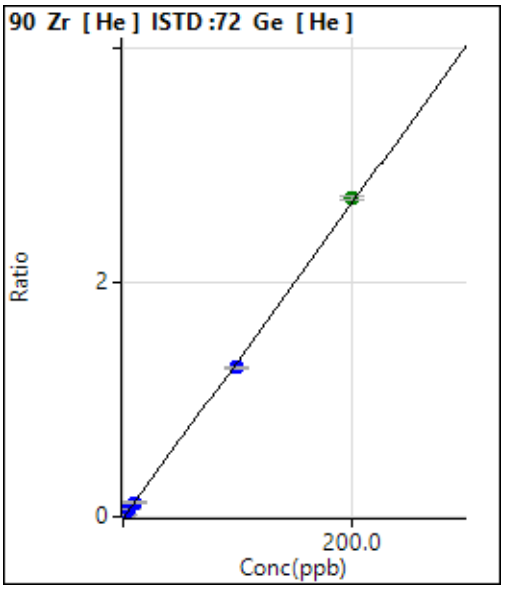
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 980.05 | 0.0002 | P | 6.4 | |
| 2 | ☐ | 2.000 | 1.637 | 44082.19 | 0.0111 | P | 1.4 | -18.2 |
| 3 | ☐ | 5.000 | 4.449 | 117530.62 | 0.0297 | P | 0.9 | -11.0 |
| 4 | ☐ | 10.000 | 9.248 | 238146.25 | 0.0615 | P | 1.2 | -7.5 |
| 5 | ☐ | 100.000 | 97.180 | 2383562.00 | 0.6436 | A | 1.2 | -2.8 |
| 6 | ☐ | 200.000 | 201.465 | 4735864.31 | 1.3340 | A | 1.7 | 0.7 |

y = 0.0066 * x + 2.4184E-004
R = 0.9999
DL = 0.00706 ppb
BEC = 0.03653 ppb

Weight: <None>
Min Conc: <None>

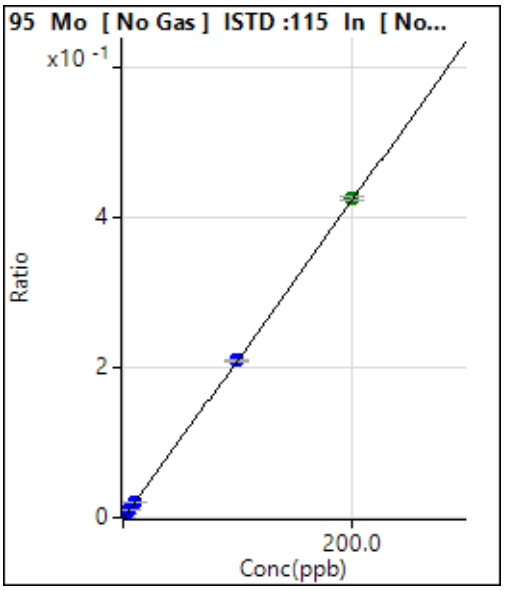



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1233.42 | 0.0015 | P | 15.0 | |
| 2 | ☐ | 2.000 | 1.597 | 18522.95 | 0.0229 | P | 2.8 | -20.1 |
| 3 | ☐ | 5.000 | 4.481 | 48945.48 | 0.0616 | P | 2.6 | -10.4 |
| 4 | ☐ | 10.000 | 8.940 | 94831.50 | 0.1215 | P | 2.7 | -10.6 |
| 5 | ☐ | 100.000 | 94.892 | 953934.75 | 1.2746 | P | 1.3 | -5.1 |
| 6 | ☐ | 200.000 | 202.624 | 1957633.20 | 2.7200 | A | 1.8 | 1.3 |

y = 0.0134 * x + 0.0015
R = 0.9996
DL = 0.05058 ppb
BEC = 0.1124 ppb

Weight: <None>
Min Conc: <None>

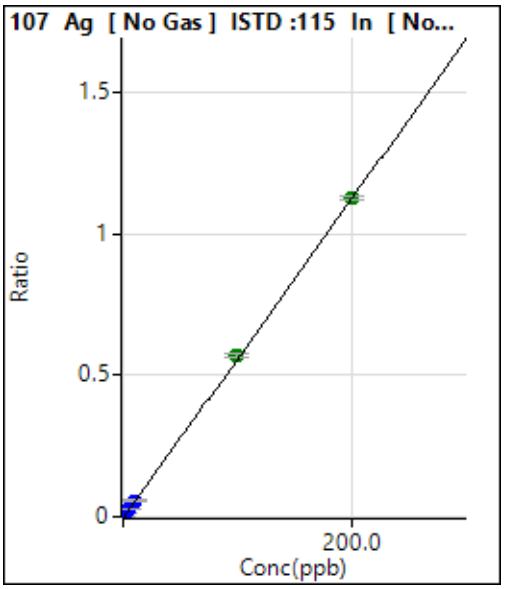
Calibration for 163_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 96.67 | 0.0000 | P | 62.1 | |
| 2 | ☐ | 2.000 | 1.897 | 16076.52 | 0.0040 | P | 1.0 | -5.1 |
| 3 | ☐ | 5.000 | 4.957 | 41634.81 | 0.0105 | P | 0.3 | -0.9 |
| 4 | ☐ | 10.000 | 9.793 | 80422.53 | 0.0208 | P | 1.5 | -2.1 |
| 5 | ☐ | 100.000 | 98.793 | 774708.27 | 0.2092 | P | 1.6 | -1.2 |
| 6 | ☐ | 200.000 | 200.616 | 1507965.19 | 0.4248 | A | 1.6 | 0.3 |

y = 0.0021 * x + 2.3819E-005
R = 1.0000
DL = 0.02095 ppb
BEC = 0.01125 ppb

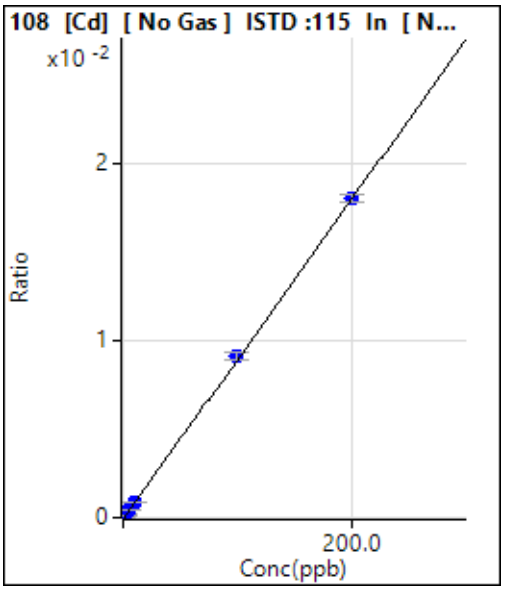
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 360.01 | 0.0001 | P | 9.7 | |
| 2 | ☐ | 2.000 | 2.062 | 46711.71 | 0.0117 | P | 3.2 | 3.1 |
| 3 | ☐ | 5.000 | 5.108 | 114574.08 | 0.0289 | P | 1.1 | 2.2 |
| 4 | ☐ | 10.000 | 10.140 | 222274.44 | 0.0574 | P | 1.5 | 1.4 |
| 5 | ☐ | 100.000 | 100.792 | 2109028.93 | 0.5695 | A | 1.7 | 0.8 |
| 6 | ☐ | 200.000 | 199.594 | 4003104.11 | 1.1276 | A | 1.6 | -0.2 |

y = 0.0056 * x + 8.8814E-005
R = 1.0000
DL = 0.004562 ppb
BEC = 0.01572 ppb

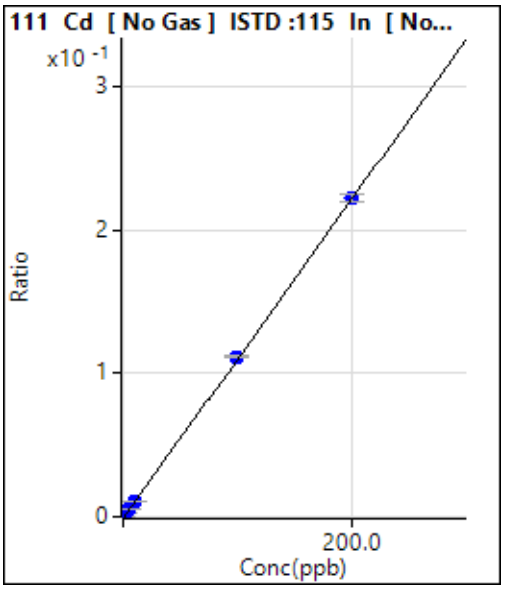
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3.33 | 0.0000 | P | 173.2 | |
| 2 | ☐ | 2.000 | 1.828 | 660.03 | 0.0002 | P | 10.1 | -8.6 |
| 3 | ☐ | 5.000 | 5.167 | 1850.16 | 0.0005 | P | 4.6 | 3.3 |
| 4 | ☐ | 10.000 | 9.554 | 3347.15 | 0.0009 | P | 10.4 | -4.5 |
| 5 | ☐ | 100.000 | 100.777 | 33716.12 | 0.0091 | P | 4.6 | 0.8 |
| 6 | ☐ | 200.000 | 199.631 | 64003.28 | 0.0180 | P | 3.0 | -0.2 |

y = 9.0309E-005 * x + 8.2235E-007
R = 1.0000
DL = 0.04732 ppb
BEC = 0.009106 ppb

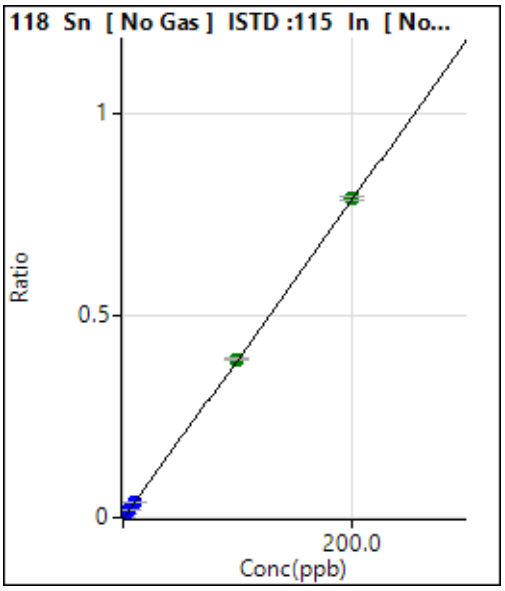
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6.42 | 0.0000 | P | 327.7 | |
| 2 | ☐ | 2.000 | 1.989 | 8828.65 | 0.0022 | P | 1.7 | -0.5 |
| 3 | ☐ | 5.000 | 5.025 | 22183.62 | 0.0056 | P | 4.2 | 0.5 |
| 4 | ☐ | 10.000 | 10.093 | 43591.98 | 0.0113 | P | 0.8 | 0.9 |
| 5 | ☐ | 100.000 | 100.305 | 414082.00 | 0.1118 | P | 1.2 | 0.3 |
| 6 | ☐ | 200.000 | 199.842 | 790806.94 | 0.2228 | P | 2.1 | -0.1 |

y = 0.0011 * x + 1.5940E-006
R = 1.0000
DL = 0.01406 ppb
BEC = 0.00143 ppb

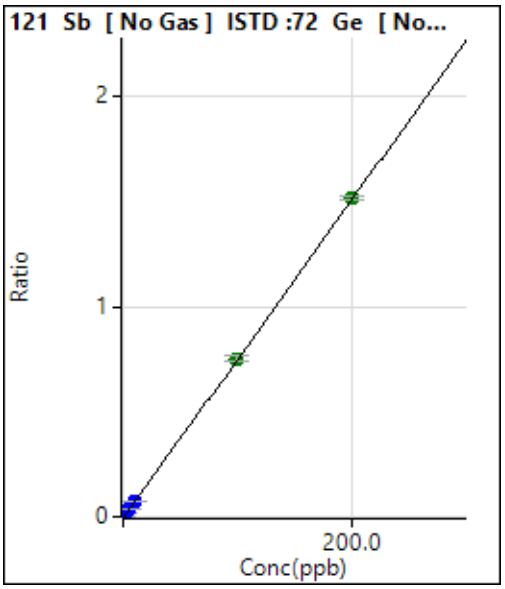
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3420.50 | 0.0008 | P | 3.5 | |
| 2 | ☐ | 2.000 | 1.954 | 34013.88 | 0.0085 | P | 0.9 | -2.3 |
| 3 | ☐ | 5.000 | 4.892 | 79674.95 | 0.0201 | P | 0.9 | -2.2 |
| 4 | ☐ | 10.000 | 9.748 | 152140.46 | 0.0393 | P | 0.6 | -2.5 |
| 5 | ☐ | 100.000 | 99.384 | 1454044.72 | 0.3926 | A | 2.0 | -0.6 |
| 6 | ☐ | 200.000 | 200.324 | 2806410.27 | 0.7905 | A | 1.4 | 0.2 |

y = 0.0039 * x + 8.4399E-004
R = 1.0000
DL = 0.02257 ppb
BEC = 0.2141 ppb

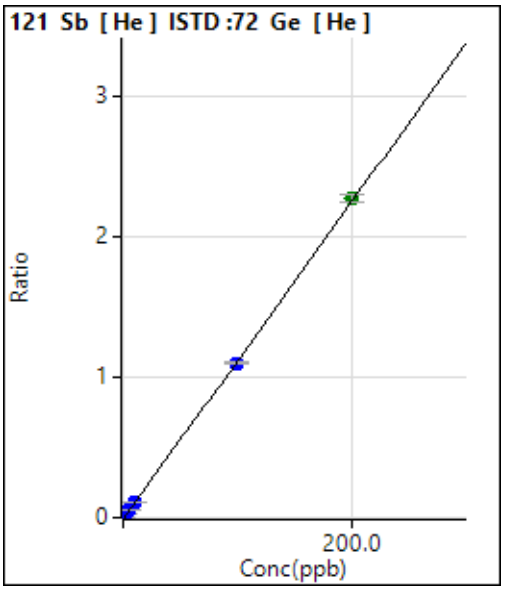
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 733.37 | 0.0003 | P | 8.9 | |
| 2 | ☐ | 2.000 | 1.923 | 41515.18 | 0.0148 | P | 2.3 | -3.8 |
| 3 | ☐ | 5.000 | 4.888 | 102423.27 | 0.0373 | P | 2.0 | -2.2 |
| 4 | ☐ | 10.000 | 9.622 | 197242.49 | 0.0731 | P | 1.8 | -3.8 |
| 5 | ☐ | 100.000 | 99.458 | 1916033.46 | 0.7536 | A | 2.6 | -0.5 |
| 6 | ☐ | 200.000 | 200.293 | 3690914.84 | 1.5174 | A | 1.7 | 0.1 |

y = 0.0076 * x + 2.5879E-004
R = 1.0000
DL = 0.009139 ppb
BEC = 0.03417 ppb

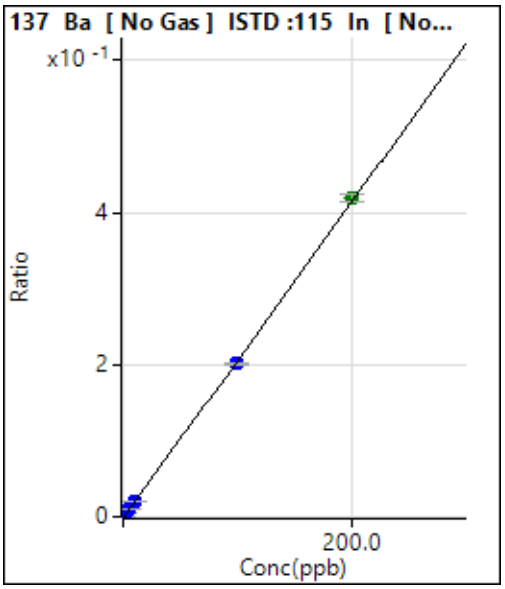
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 300.01 | 0.0004 | P | 21.9 | |
| 2 | ☐ | 2.000 | 1.869 | 17368.28 | 0.0215 | P | 0.9 | -6.5 |
| 3 | ☐ | 5.000 | 4.787 | 43294.21 | 0.0545 | P | 4.3 | -4.3 |
| 4 | ☐ | 10.000 | 9.437 | 83619.42 | 0.1071 | P | 2.5 | -5.6 |
| 5 | ☐ | 100.000 | 97.573 | 826138.90 | 1.1039 | P | 1.0 | -2.4 |
| 6 | ☐ | 200.000 | 201.248 | 1638358.73 | 2.2765 | A | 2.3 | 0.6 |

y = 0.0113 * x + 3.6672E-004
R = 0.9999
DL = 0.02129 ppb
BEC = 0.03242 ppb

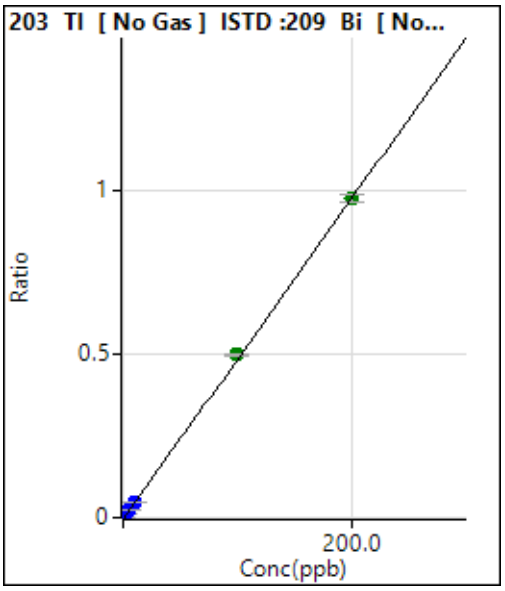
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 690.03 | 0.0002 | P | 7.4 | |
| 2 | ☐ | 2.000 | 1.895 | 16360.45 | 0.0041 | P | 4.7 | -5.2 |
| 3 | ☐ | 5.000 | 4.917 | 41158.24 | 0.0104 | P | 2.4 | -1.7 |
| 4 | ☐ | 10.000 | 9.665 | 78537.72 | 0.0203 | P | 2.3 | -3.4 |
| 5 | ☐ | 100.000 | 96.930 | 747214.29 | 0.2018 | P | 1.1 | -3.1 |
| 6 | ☐ | 200.000 | 201.555 | 1488748.15 | 0.4194 | A | 2.5 | 0.8 |

y = 0.0021 * x + 1.7024E-004
R = 0.9998
DL = 0.01821 ppb
BEC = 0.08186 ppb

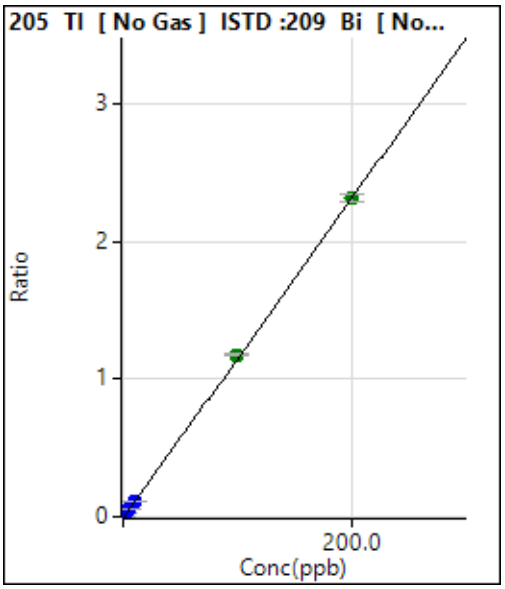
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 176.67 | 0.0000 | P | 15.0 | |
| 2 | ☐ | 2.000 | 2.110 | 45324.94 | 0.0104 | P | 2.3 | 5.5 |
| 3 | ☐ | 5.000 | 5.181 | 110628.08 | 0.0255 | P | 1.9 | 3.6 |
| 4 | ☐ | 10.000 | 9.715 | 203321.60 | 0.0478 | P | 2.1 | -2.9 |
| 5 | ☐ | 100.000 | 101.782 | 2044623.09 | 0.5006 | A | 1.1 | 1.8 |
| 6 | ☐ | 200.000 | 199.117 | 3844545.88 | 0.9792 | A | 2.6 | -0.4 |

y = 0.0049 * x + 4.0723E-005
R = 0.9999
DL = 0.003715 ppb
BEC = 0.008281 ppb

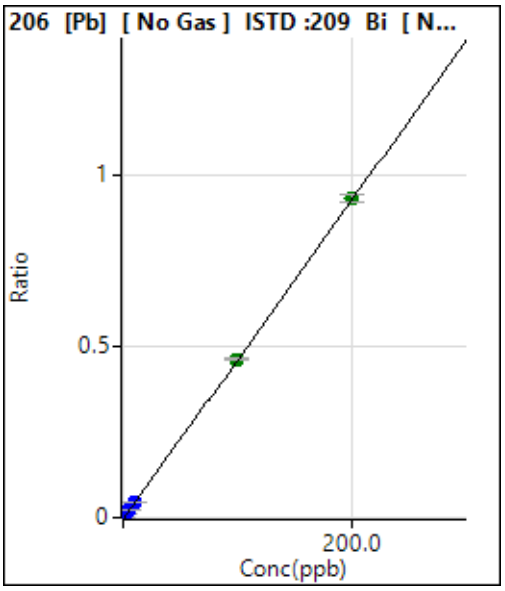
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 346.68 | 0.0001 | P | 10.9 | |
| 2 | ☐ | 2.000 | 2.114 | 107280.74 | 0.0247 | P | 2.0 | 5.7 |
| 3 | ☐ | 5.000 | 5.272 | 265999.27 | 0.0614 | P | 2.3 | 5.4 |
| 4 | ☐ | 10.000 | 9.913 | 490321.80 | 0.1153 | P | 3.2 | -0.9 |
| 5 | ☐ | 100.000 | 101.381 | 4813527.01 | 1.1785 | A | 1.2 | 1.4 |
| 6 | ☐ | 200.000 | 199.306 | 9095408.20 | 2.3167 | A | 2.4 | -0.3 |

y = 0.0116 * x + 7.9798E-005
R = 1.0000
DL = 0.002247 ppb
BEC = 0.006865 ppb

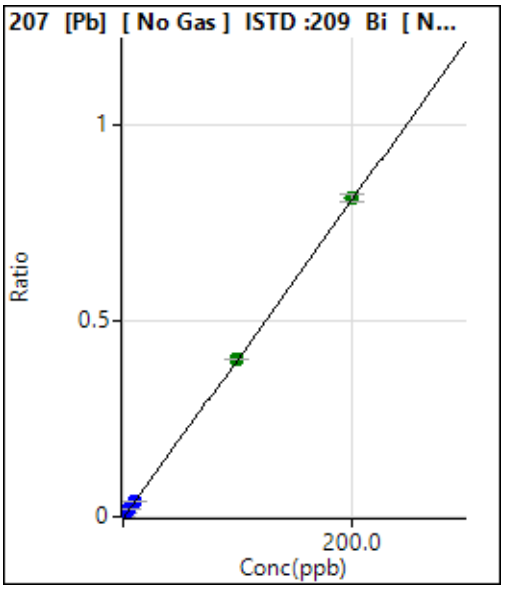
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 506.68 | 0.0001 | P | 13.1 | |
| 2 | ☐ | 2.000 | 1.977 | 40642.39 | 0.0093 | P | 1.2 | -1.1 |
| 3 | ☐ | 5.000 | 4.959 | 100794.75 | 0.0232 | P | 2.0 | -0.8 |
| 4 | ☐ | 10.000 | 9.789 | 194680.03 | 0.0458 | P | 1.2 | -2.1 |
| 5 | ☐ | 100.000 | 99.500 | 1896431.12 | 0.4643 | A | 0.8 | -0.5 |
| 6 | ☐ | 200.000 | 200.262 | 3668451.19 | 0.9343 | A | 1.9 | 0.1 |

y = 0.0047 * x + 1.1662E-004
R = 1.0000
DL = 0.009801 ppb
BEC = 0.025 ppb

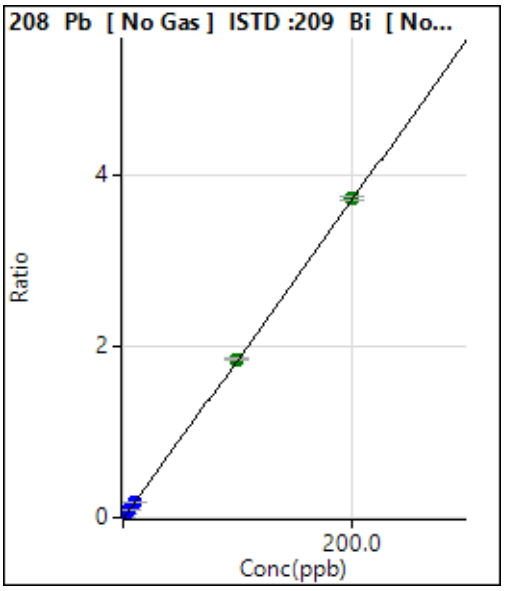
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 573.48 | 0.0001 | P | 63.0 | |
| 2 | ☐ | 2.000 | 1.948 | 35045.76 | 0.0081 | P | 1.7 | -2.6 |
| 3 | ☐ | 5.000 | 4.942 | 87700.70 | 0.0202 | P | 2.0 | -1.2 |
| 4 | ☐ | 10.000 | 9.874 | 171317.26 | 0.0403 | P | 2.6 | -1.3 |
| 5 | ☐ | 100.000 | 98.944 | 1644082.00 | 0.4025 | A | 0.8 | -1.1 |
| 6 | ☐ | 200.000 | 200.536 | 3202401.62 | 0.8157 | A | 1.8 | 0.3 |

y = 0.0041 * x + 1.3259E-004
R = 1.0000
DL = 0.06159 ppb
BEC = 0.0326 ppb

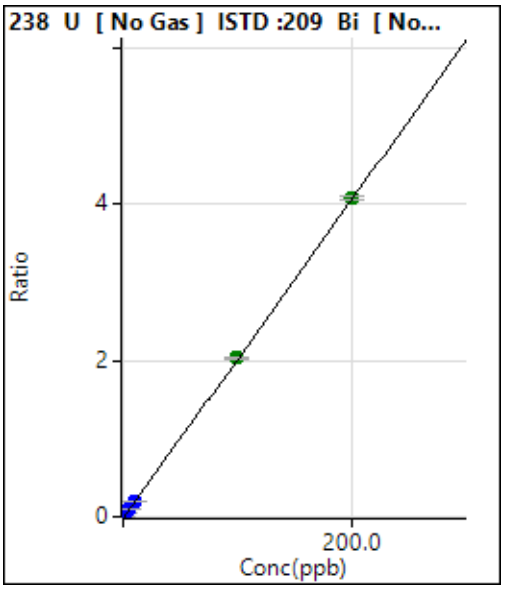
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2256.91 | 0.0005 | P | 19.4 | |
| 2 | ☐ | 2.000 | 1.958 | 160593.26 | 0.0369 | P | 0.1 | -2.1 |
| 3 | ☐ | 5.000 | 4.970 | 402637.88 | 0.0929 | P | 1.6 | -0.6 |
| 4 | ☐ | 10.000 | 9.874 | 782392.50 | 0.1840 | P | 1.6 | -1.3 |
| 5 | ☐ | 100.000 | 99.337 | 7541323.37 | 1.8463 | A | 1.0 | -0.7 |
| 6 | ☐ | 200.000 | 200.339 | 14616929.78 | 3.7230 | A | 1.7 | 0.2 |

y = 0.0186 * x + 5.2046E-004
R = 1.0000
DL = 0.01629 ppb
BEC = 0.02801 ppb

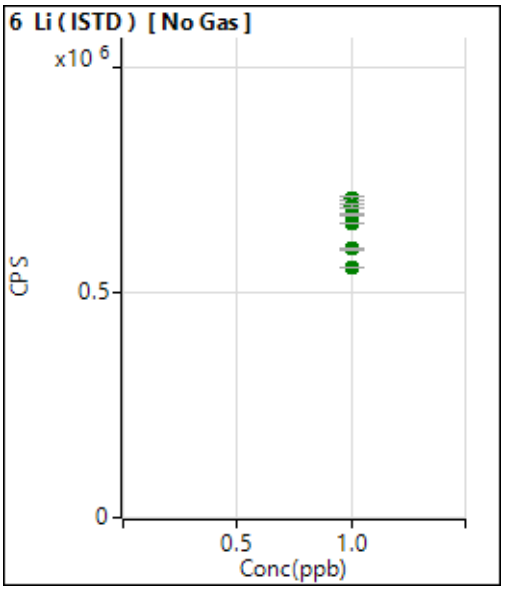
Weight: <None>
Min Conc: <None>



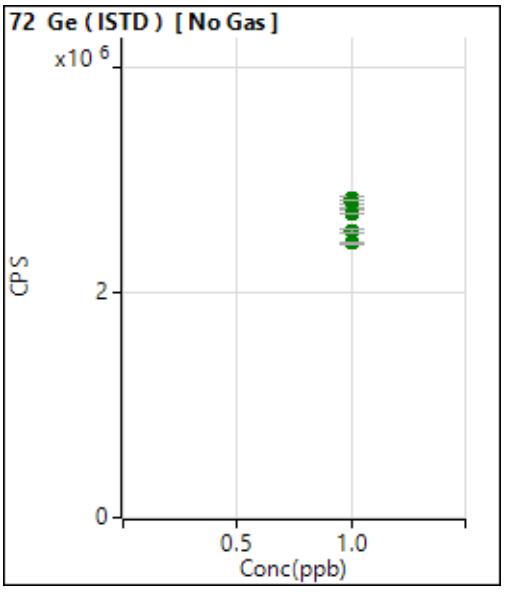

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1000.06 | 0.0002 | P | 4.8 | |
| 2 | ☐ | 2.000 | 1.828 | 162906.89 | 0.0374 | P | 1.7 | -8.6 |
| 3 | ☐ | 5.000 | 4.676 | 413688.54 | 0.0954 | P | 0.7 | -6.5 |
| 4 | ☐ | 10.000 | 9.302 | 806152.23 | 0.1896 | P | 1.6 | -7.0 |
| 5 | ☐ | 100.000 | 99.790 | 8298256.33 | 2.0316 | A | 0.9 | -0.2 |
| 6 | ☐ | 200.000 | 200.150 | 15998180.59 | 4.0746 | A | 1.4 | 0.1 |

y = 0.0204 * x + 2.3036E-004
R = 1.0000
DL = 0.001618 ppb
BEC = 0.01132 ppb

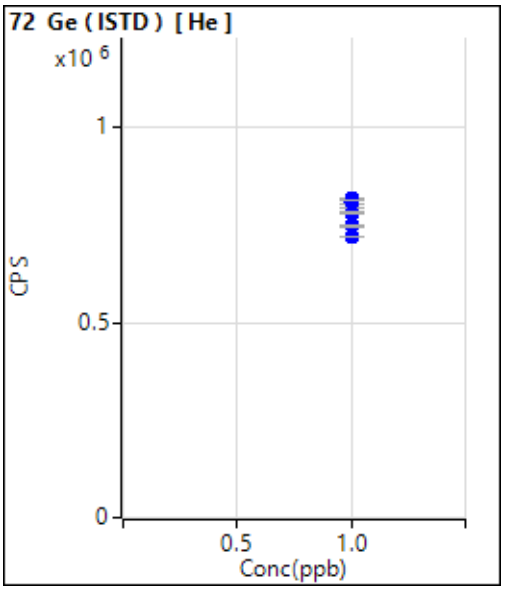
Weight: <None>
Min Conc: <None>



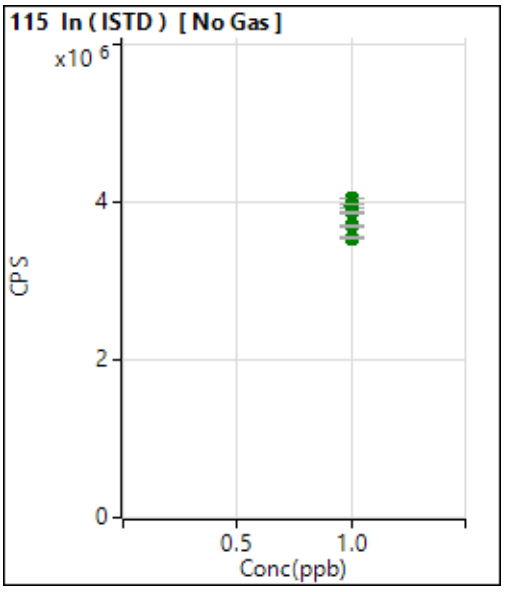

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 707912.67 | | A | 1.4 | |
| 2 | ☐ | 1.000 | | 691876.44 | | A | 1.2 | |
| 3 | ☐ | 1.000 | | 671142.05 | | A | 0.7 | |
| 4 | ☐ | 1.000 | | 651504.38 | | A | 0.4 | |
| 5 | ☐ | 1.000 | | 596010.80 | | A | 0.4 | |
| 6 | ☐ | 1.000 | | 553873.52 | | A | 0.3 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 2833616.73 | | A | 0.8 | |
| 2 | ☐ | 1.000 | | 2799555.06 | | A | 0.8 | |
| 3 | ☐ | 1.000 | | 2746832.36 | | A | 0.5 | |
| 4 | ☐ | 1.000 | | 2696876.31 | | A | 0.2 | |
| 5 | ☐ | 1.000 | | 2542670.48 | | A | 1.1 | |
| 6 | ☐ | 1.000 | | 2432486.16 | | A | 0.2 | |

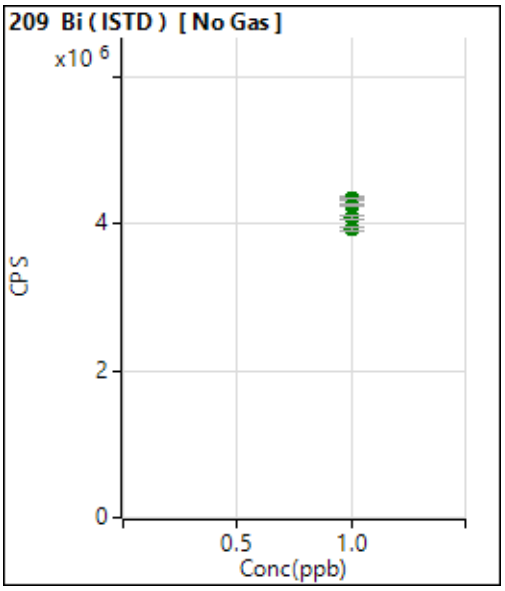



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 818068.40 | | P | 0.5 | |
| 2 | ☐ | 1.000 | | 807629.96 | | P | 0.9 | |
| 3 | ☐ | 1.000 | | 794209.88 | | P | 0.1 | |
| 4 | ☐ | 1.000 | | 780872.05 | | P | 0.4 | |
| 5 | ☐ | 1.000 | | 748388.79 | | P | 0.8 | |
| 6 | ☐ | 1.000 | | 719741.92 | | P | 0.4 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4052649.65 | | A | 0.4 | |
| 2 | ☐ | 1.000 | | 3979150.31 | | A | 0.3 | |
| 3 | ☐ | 1.000 | | 3958484.60 | | A | 0.9 | |
| 4 | ☐ | 1.000 | | 3874106.01 | | A | 0.7 | |
| 5 | ☐ | 1.000 | | 3703349.99 | | A | 0.9 | |
| 6 | ☐ | 1.000 | | 3550286.04 | | A | 0.5 | |

Calibration for 163_ICV.d



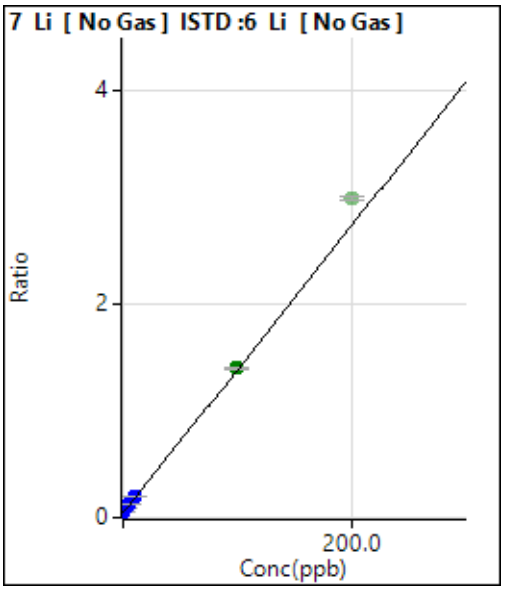

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4341940.88 | | A | 1.1 | |
| 2 | ☐ | 1.000 | | 4351061.29 | | A | 1.0 | |
| 3 | ☐ | 1.000 | | 4335305.14 | | A | 0.2 | |
| 4 | ☐ | 1.000 | | 4252020.98 | | A | 0.5 | |
| 5 | ☐ | 1.000 | | 4084398.27 | | A | 0.9 | |
| 6 | ☐ | 1.000 | | 3926521.40 | | A | 1.1 | |

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070124A.b\
Analysis File: 070124A.batch.bin
DA Date-Time: 7/1/2024 11:22:18 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 010CALB.d | CAL BLK | 7/1/2024 10:13:08 AM |
| 2 | 011CALS.d | 2/10/200 | 7/1/2024 10:15:51 AM |
| 3 | 012CALS.d | 5/25/500 | 7/1/2024 10:18:32 AM |
| 4 | 013CALS.d | 10/50/100 | 7/1/2024 10:21:13 AM |
| 5 | 014CALS.d | 100/500/10K | 7/1/2024 10:23:53 AM |
| 6 | 015CALS.d | 200/1000/20K | 7/1/2024 10:27:02 AM |

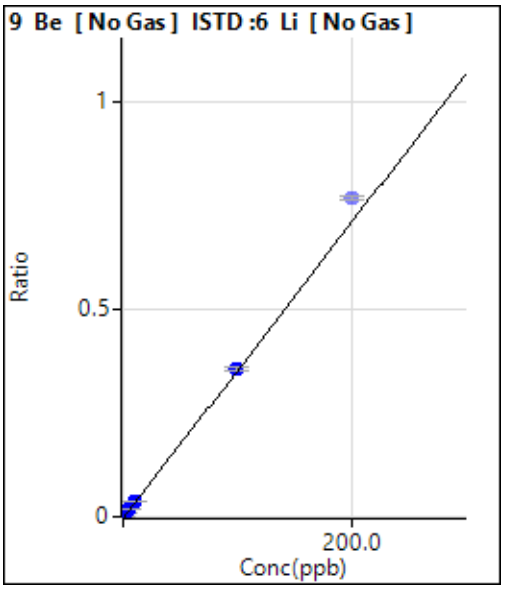
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 36346.29 | 0.0584 | P | 1.9 | |
| 2 | ☐ | 2.000 | 2.049 | 52718.60 | 0.0860 | P | 1.2 | 2.4 |
| 3 | ☐ | 5.000 | 5.120 | 77204.13 | 0.1274 | P | 0.8 | 2.4 |
| 4 | ☐ | 10.000 | 10.301 | 117465.93 | 0.1973 | P | 2.2 | 3.0 |
| 5 | ☐ | 100.000 | 99.963 | 787320.64 | 1.4065 | A | 1.2 | 0.0 |
| 6 | ☑ | 200.000 | | 1555325.81 | 2.9968 | A | 1.0 | |

y = 0.0135 * x + 0.0584
R = 1.0000
DL = 0.2481 ppb
BEC = 4.33 ppb

Weight: <None>
Min Conc: <None>

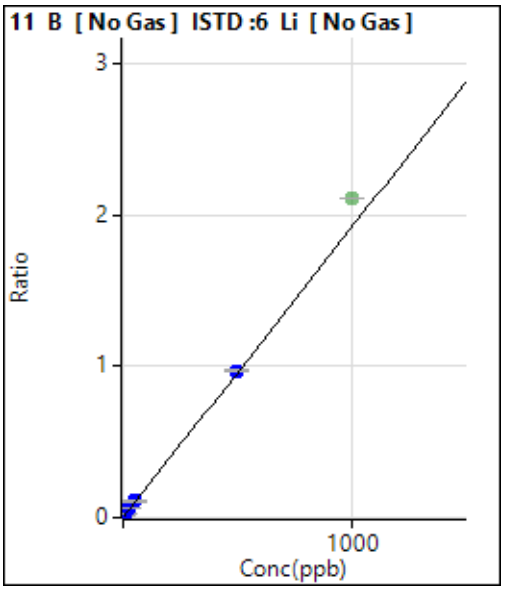



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 76.67 | 0.0001 | P | 24.4 | |
| 2 | ☐ | 2.000 | 1.939 | 4315.70 | 0.0070 | P | 2.0 | -3.1 |
| 3 | ☐ | 5.000 | 5.060 | 11012.62 | 0.0182 | P | 1.5 | 1.2 |
| 4 | ☐ | 10.000 | 10.222 | 21790.13 | 0.0366 | P | 2.0 | 2.2 |
| 5 | ☐ | 100.000 | 99.976 | 199782.00 | 0.3569 | P | 1.9 | 0.0 |
| 6 | ☑ | 200.000 | | 398984.52 | 0.7688 | P | 1.4 | |

y = 0.0036 * x + 1.2310E-004
R = 1.0000
DL = 0.02528 ppb
BEC = 0.03449 ppb

Weight: <None>
Min Conc: <None>

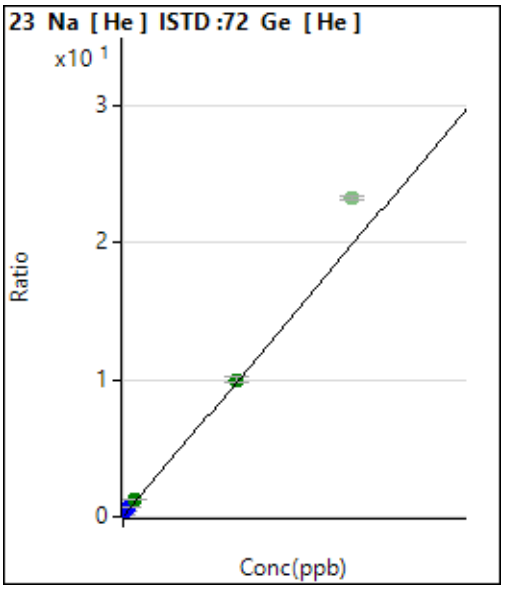
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7523.69 | 0.0121 | P | 0.9 | |
| 2 | ☐ | 10.000 | 9.412 | 18488.75 | 0.0302 | P | 3.3 | -5.9 |
| 3 | ☐ | 25.000 | 24.177 | 35457.49 | 0.0585 | P | 1.2 | -3.3 |
| 4 | ☐ | 50.000 | 50.337 | 64766.64 | 0.1088 | P | 1.1 | 0.7 |
| 5 | ☐ | 500.000 | 500.019 | 544451.60 | 0.9727 | P | 0.9 | 0.0 |
| 6 | ☑ | 1000.000 | | 1097397.46 | 2.1145 | A | 0.5 | |

y = 0.0019 * x + 0.0121
R = 1.0000
DL = 0.162 ppb
BEC = 6.292 ppb

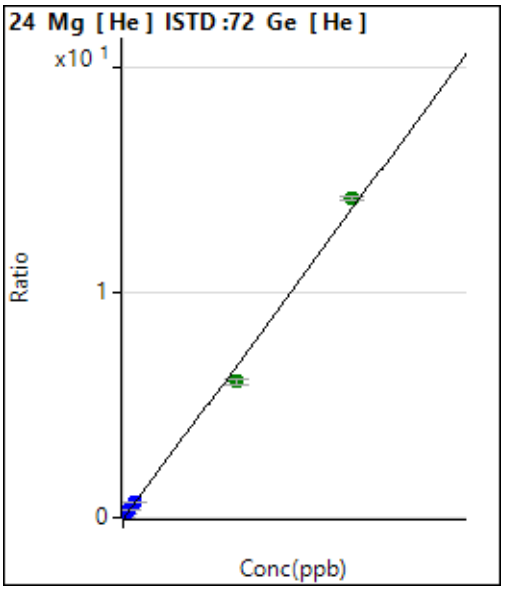
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 98350.91 | 0.1522 | P | 1.0 | |
| 2 | ☐ | 200.000 | 215.314 | 236664.48 | 0.3648 | P | 2.5 | 7.7 |
| 3 | ☐ | 500.000 | 546.429 | 445009.40 | 0.6918 | P | 2.2 | 9.3 |
| 4 | ☐ | 1000.000 | 1133.246 | 808275.80 | 1.2713 | A | 1.4 | 13.3 |
| 5 | ☐ | 10000.00 | 9984.048 | 6242287.41 | 10.0119 | A | 3.4 | -0.2 |
| 6 | ☑ | 20000.00 | | 13724794.79 | 23.2470 | A | 0.7 | |

y = 9.8754E-004 * x + 0.1522
R = 0.9999
DL = 4.517 ppb
BEC = 154.1 ppb

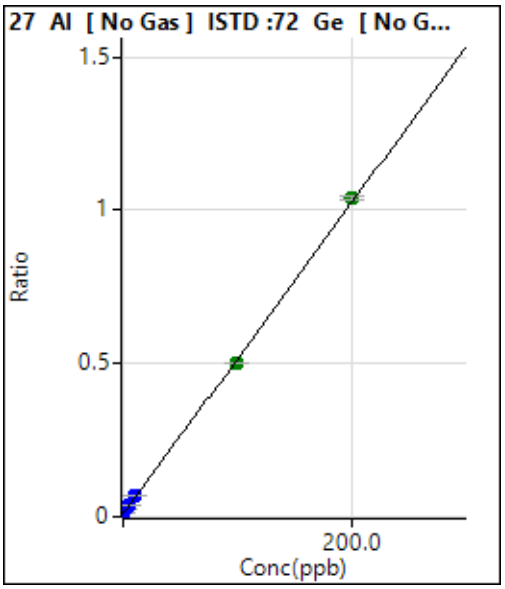
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3620.53 | 0.0056 | P | 5.7 | |
| 2 | ☐ | 200.000 | 198.146 | 91914.79 | 0.1417 | P | 3.1 | -0.9 |
| 3 | ☐ | 500.000 | 491.045 | 220546.00 | 0.3429 | P | 2.5 | -1.8 |
| 4 | ☐ | 1000.000 | 1009.849 | 444534.38 | 0.6992 | P | 1.3 | 1.0 |
| 5 | ☐ | 10000.00 | 8773.863 | 3760801.40 | 6.0319 | A | 3.5 | -12.3 |
| 6 | ☐ | 20000.00 | 20612.81 | 8362117.79 | 14.1635 | A | 1.0 | 3.1 |

y = 6.8685E-004 * x + 0.0056
R = 0.9974
DL = 1.391 ppb
BEC = 8.156 ppb

Weight: <None>
Min Conc: <None>

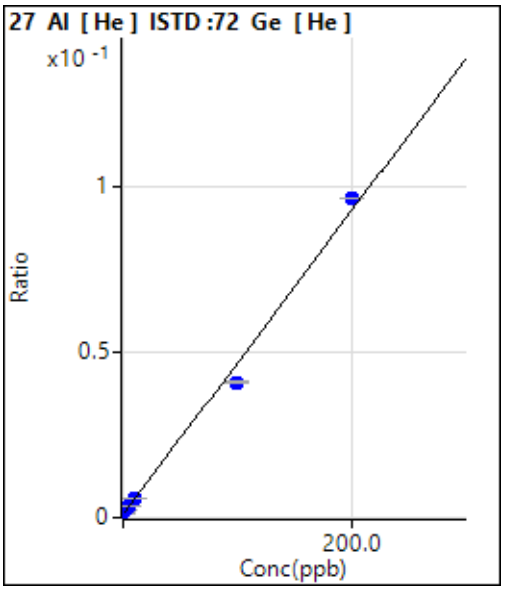



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 31548.97 | 0.0140 | P | 3.2 | |
| 2 | ☐ | 2.000 | 2.084 | 55532.86 | 0.0246 | P | 1.2 | 4.2 |
| 3 | ☐ | 5.000 | 4.912 | 87339.75 | 0.0390 | P | 3.3 | -1.8 |
| 4 | ☐ | 10.000 | 10.348 | 146138.67 | 0.0666 | P | 1.8 | 3.5 |
| 5 | ☐ | 100.000 | 95.991 | 1066858.45 | 0.5017 | A | 0.9 | -4.0 |
| 6 | ☐ | 200.000 | 201.988 | 2119459.86 | 1.0401 | A | 1.4 | 1.0 |

y = 0.0051 * x + 0.0140
R = 0.9997
DL = 0.2649 ppb
BEC = 2.762 ppb

Weight: <None>
Min Conc: <None>

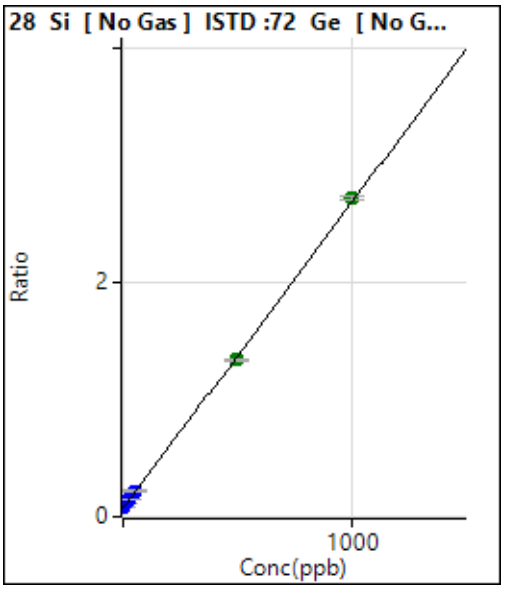
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 956.72 | 0.0015 | P | 6.9 | |
| 2 | ☐ | 2.000 | 1.520 | 1413.42 | 0.0022 | P | 6.1 | -24.0 |
| 3 | ☐ | 5.000 | 4.696 | 2340.23 | 0.0036 | P | 7.6 | -6.1 |
| 4 | ☐ | 10.000 | 8.903 | 3540.51 | 0.0056 | P | 1.1 | -11.0 |
| 5 | ☐ | 100.000 | 86.013 | 25553.41 | 0.0410 | P | 2.2 | -14.0 |
| 6 | ☐ | 200.000 | 207.061 | 57015.52 | 0.0966 | P | 0.2 | 3.5 |

y = 4.5927E-004 * x + 0.0015
R = 0.9967
DL = 0.6719 ppb
BEC = 3.224 ppb

Weight: <None>
Min Conc: <None>

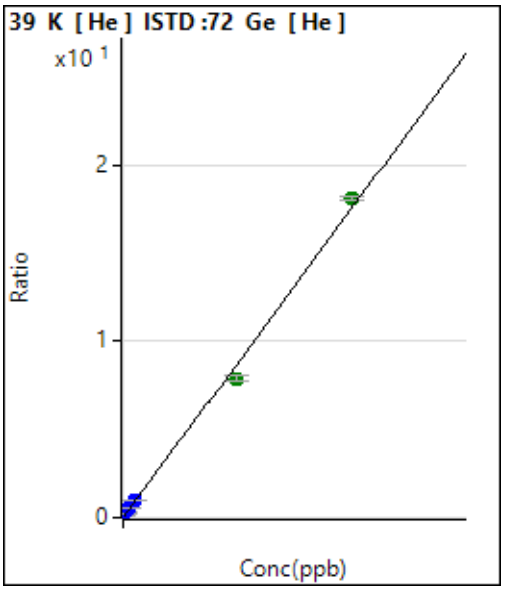



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 192642.92 | 0.0857 | P | 1.8 | |
| 2 | ☐ | 10.000 | 9.226 | 247498.35 | 0.1097 | P | 0.7 | -7.7 |
| 3 | ☐ | 25.000 | 24.300 | 333822.25 | 0.1490 | P | 1.2 | -2.8 |
| 4 | ☐ | 50.000 | 51.366 | 481709.17 | 0.2195 | P | 2.3 | 2.7 |
| 5 | ☐ | 500.000 | 480.054 | 2842289.54 | 1.3365 | A | 1.0 | -4.0 |
| 6 | ☐ | 1000.000 | 1009.930 | 5536700.54 | 2.7171 | A | 1.3 | 1.0 |

y = 0.0026 * x + 0.0857
R = 0.9997
DL = 1.756 ppb
BEC = 32.88 ppb

Weight: <None>
Min Conc: <None>

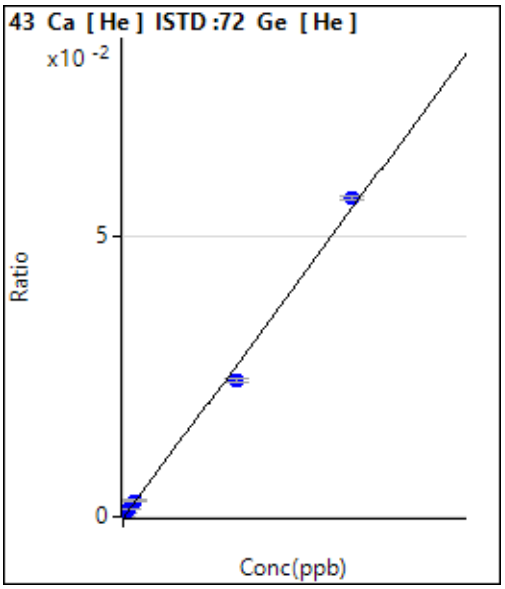
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 64720.04 | 0.1002 | P | 1.2 | |
| 2 | ☐ | 200.000 | 197.287 | 177343.91 | 0.2734 | P | 1.8 | -1.4 |
| 3 | ☐ | 500.000 | 495.205 | 344103.59 | 0.5350 | P | 2.5 | -1.0 |
| 4 | ☐ | 1000.000 | 1002.620 | 623356.27 | 0.9805 | P | 1.3 | 0.3 |
| 5 | ☐ | 10000.00 | 8907.453 | 4938583.36 | 7.9210 | A | 3.9 | -10.9 |
| 6 | ☐ | 20000.00 | 20546.29 | 10709749.42 | 18.1400 | A | 1.0 | 2.7 |

y = 8.7801E-004 * x + 0.1002
R = 0.9979
DL = 4.051 ppb
BEC = 114.1 ppb

Weight: <None>
Min Conc: <None>

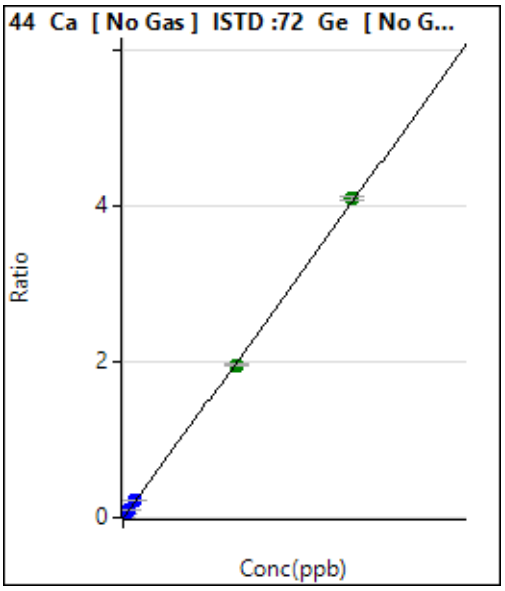



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 16.67 | 0.0000 | P | 124.9 | |
| 2 | ☐ | 200.000 | 229.769 | 426.68 | 0.0007 | P | 3.6 | 14.9 |
| 3 | ☐ | 500.000 | 484.257 | 873.38 | 0.0014 | P | 10.3 | -3.1 |
| 4 | ☐ | 1000.000 | 1037.258 | 1830.15 | 0.0029 | P | 6.4 | 3.7 |
| 5 | ☐ | 10000.00 | 8783.271 | 15075.04 | 0.0242 | P | 2.7 | -12.2 |
| 6 | ☐ | 20000.00 | 20606.59 | 33470.46 | 0.0567 | P | 1.5 | 3.0 |

y = 2.7498E-006 * x + 2.5945E-005
R = 0.9974
DL = 35.34 ppb
BEC = 9.435 ppb

Weight: <None>
Min Conc: <None>

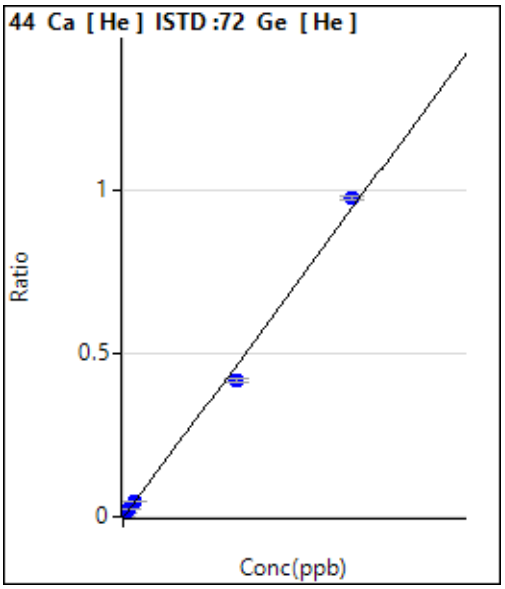
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 21590.46 | 0.0096 | P | 1.5 | |
| 2 | ☐ | 200.000 | 196.204 | 111365.54 | 0.0494 | P | 1.4 | -1.9 |
| 3 | ☐ | 500.000 | 491.058 | 244504.43 | 0.1091 | P | 2.8 | -1.8 |
| 4 | ☐ | 1000.000 | 1001.417 | 466429.21 | 0.2126 | P | 2.0 | 0.1 |
| 5 | ☐ | 10000.00 | 9632.706 | 4172178.27 | 1.9618 | A | 0.8 | -3.7 |
| 6 | ☐ | 20000.00 | 20183.83 | 8355057.79 | 4.1002 | A | 1.2 | 0.9 |

y = 2.0267E-004 * x + 0.0096
R = 0.9998
DL = 2.135 ppb
BEC = 47.38 ppb

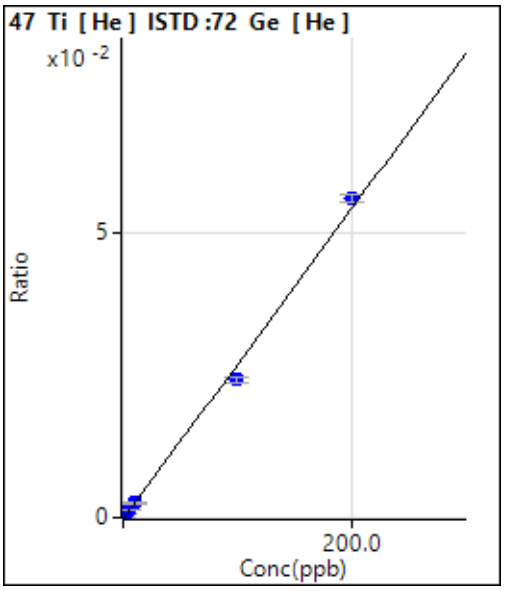
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 693.36 | 0.0011 | P | 10.7 | |
| 2 | ☐ | 200.000 | 191.920 | 6595.03 | 0.0102 | P | 4.6 | -4.0 |
| 3 | ☐ | 500.000 | 491.836 | 15682.41 | 0.0244 | P | 3.2 | -1.6 |
| 4 | ☐ | 1000.000 | 1000.963 | 30841.17 | 0.0485 | P | 3.0 | 0.1 |
| 5 | ☐ | 10000.00 | 8795.610 | 260544.73 | 0.4179 | P | 3.2 | -12.0 |
| 6 | ☐ | 20000.00 | 20602.43 | 577052.26 | 0.9774 | P | 1.6 | 3.0 |

y = 4.7388E-005 * x + 0.0011
R = 0.9975
DL = 7.282 ppb
BEC = 22.63 ppb

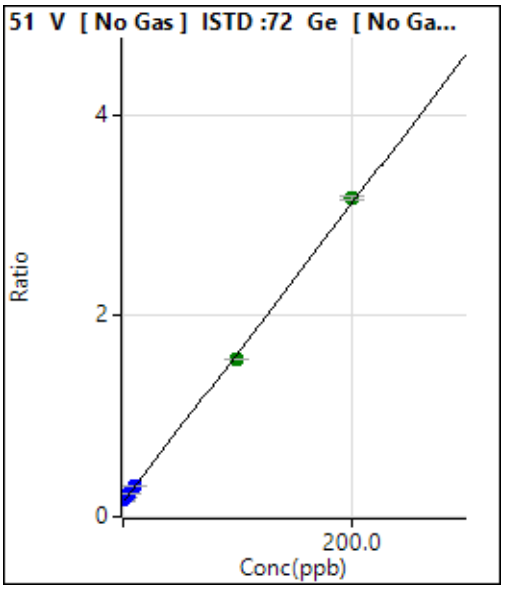
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6.67 | 0.0000 | P | 86.6 | |
| 2 | ☐ | 2.000 | 2.032 | 366.68 | 0.0006 | P | 3.3 | 1.6 |
| 3 | ☐ | 5.000 | 4.762 | 843.38 | 0.0013 | P | 17.3 | -4.8 |
| 4 | ☐ | 10.000 | 9.460 | 1650.13 | 0.0026 | P | 9.4 | -5.4 |
| 5 | ☐ | 100.000 | 88.655 | 15105.06 | 0.0242 | P | 4.5 | -11.3 |
| 6 | ☐ | 200.000 | 205.705 | 33183.15 | 0.0562 | P | 2.6 | 2.9 |

y = 2.7316E-004 * x + 1.0291E-005
R = 0.9978
DL = 0.09789 ppb
BEC = 0.03767 ppb

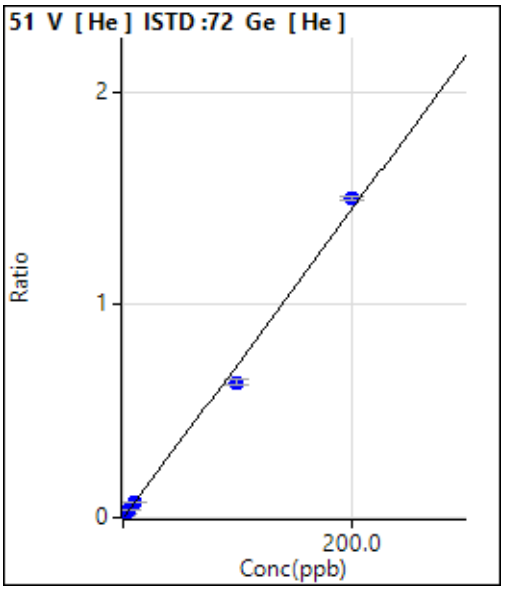
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 366413.58 | 0.1629 | P | 1.3 | |
| 2 | ☐ | 2.000 | 1.539 | 419171.91 | 0.1858 | P | 1.7 | -23.0 |
| 3 | ☐ | 5.000 | 4.714 | 521977.21 | 0.2330 | P | 1.2 | -5.7 |
| 4 | ☐ | 10.000 | 9.970 | 682523.04 | 0.3110 | P | 1.2 | -0.3 |
| 5 | ☐ | 100.000 | 94.434 | 3329263.85 | 1.5655 | A | 0.7 | -5.6 |
| 6 | ☐ | 200.000 | 202.796 | 6469506.81 | 3.1749 | A | 0.9 | 1.4 |

y = 0.0149 * x + 0.1629
R = 0.9995
DL = 0.4407 ppb
BEC = 10.97 ppb

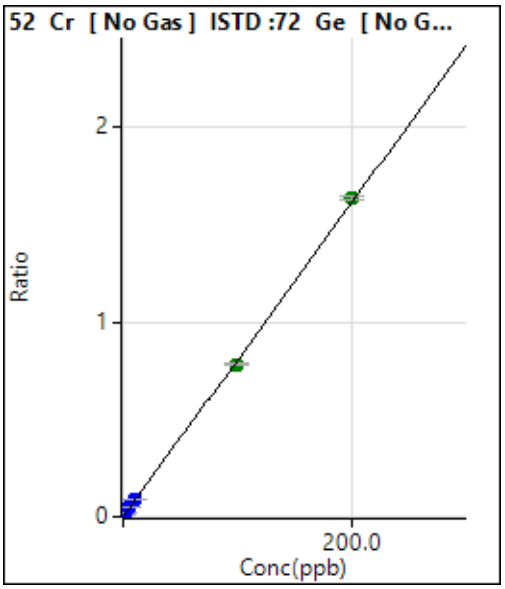
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2945.88 | 0.0046 | P | 1.0 | |
| 2 | ☐ | 2.000 | 1.916 | 11955.20 | 0.0184 | P | 4.5 | -4.2 |
| 3 | ☐ | 5.000 | 4.768 | 25138.30 | 0.0391 | P | 2.2 | -4.6 |
| 4 | ☐ | 10.000 | 9.841 | 48200.12 | 0.0758 | P | 1.8 | -1.6 |
| 5 | ☐ | 100.000 | 87.138 | 396216.44 | 0.6355 | P | 3.6 | -12.9 |
| 6 | ☐ | 200.000 | 206.446 | 885207.71 | 1.4993 | P | 1.1 | 3.2 |

y = 0.0072 * x + 0.0046
R = 0.9972
DL = 0.01938 ppb
BEC = 0.6297 ppb

Weight: <None>
Min Conc: <None>

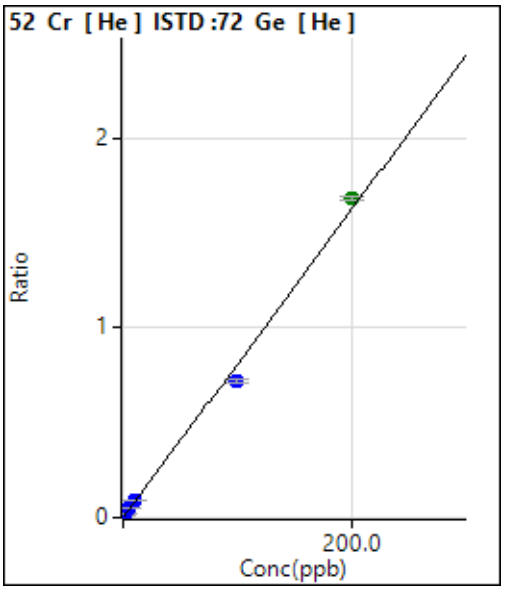



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 19767.71 | 0.0088 | P | 0.8 | |
| 2 | ☐ | 2.000 | 1.897 | 54292.96 | 0.0241 | P | 0.9 | -5.2 |
| 3 | ☐ | 5.000 | 4.910 | 108317.57 | 0.0483 | P | 2.5 | -1.8 |
| 4 | ☐ | 10.000 | 10.059 | 197082.07 | 0.0898 | P | 2.1 | 0.6 |
| 5 | ☐ | 100.000 | 95.918 | 1661661.44 | 0.7814 | A | 0.6 | -4.1 |
| 6 | ☐ | 200.000 | 202.042 | 3333940.58 | 1.6361 | A | 0.9 | 1.0 |

y = 0.0081 * x + 0.0088
R = 0.9997
DL = 0.02678 ppb
BEC = 1.091 ppb

Weight: <None>
Min Conc: <None>

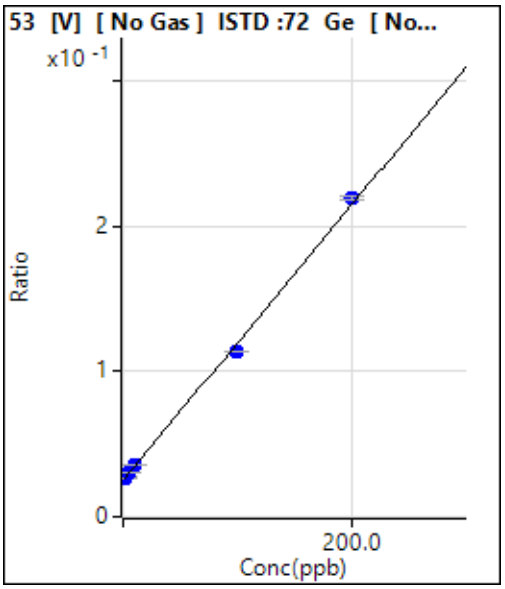
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 5297.78 | 0.0082 | P | 6.8 | |
| 2 | ☐ | 2.000 | 2.029 | 16009.45 | 0.0247 | P | 3.2 | 1.5 |
| 3 | ☐ | 5.000 | 5.038 | 31593.06 | 0.0491 | P | 3.3 | 0.8 |
| 4 | ☐ | 10.000 | 10.089 | 57308.32 | 0.0901 | P | 1.5 | 0.9 |
| 5 | ☐ | 100.000 | 87.512 | 448255.53 | 0.7189 | P | 3.1 | -12.5 |
| 6 | ☐ | 200.000 | 206.239 | 993775.85 | 1.6832 | A | 1.2 | 3.1 |

y = 0.0081 * x + 0.0082
R = 0.9973
DL = 0.2064 ppb
BEC = 1.009 ppb

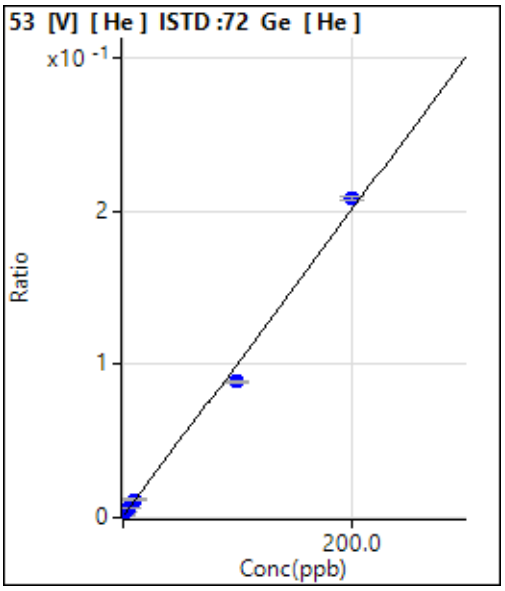
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 59243.78 | 0.0263 | P | 1.7 | |
| 2 | ☐ | 2.000 | 0.730 | 60991.02 | 0.0270 | P | 2.8 | -63.5 |
| 3 | ☐ | 5.000 | 4.490 | 68546.04 | 0.0306 | P | 0.4 | -10.2 |
| 4 | ☐ | 10.000 | 9.757 | 78062.94 | 0.0356 | P | 1.2 | -2.4 |
| 5 | ☐ | 100.000 | 92.249 | 241551.76 | 0.1136 | P | 1.0 | -7.8 |
| 6 | ☐ | 200.000 | 203.913 | 446624.63 | 0.2192 | P | 1.0 | 2.0 |

y = 9.4567E-004 * x + 0.0263
R = 0.9990
DL = 1.443 ppb
BEC = 27.86 ppb

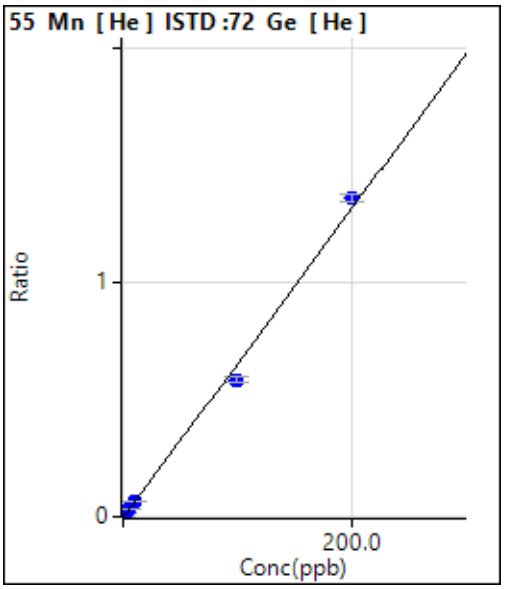
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1220.08 | 0.0019 | P | 9.6 | |
| 2 | ☐ | 2.000 | 1.765 | 2370.25 | 0.0037 | P | 8.4 | -11.7 |
| 3 | ☐ | 5.000 | 4.749 | 4267.39 | 0.0066 | P | 2.6 | -5.0 |
| 4 | ☐ | 10.000 | 9.954 | 7525.49 | 0.0118 | P | 3.6 | -0.5 |
| 5 | ☐ | 100.000 | 86.807 | 55267.08 | 0.0886 | P | 1.7 | -13.2 |
| 6 | ☐ | 200.000 | 206.608 | 123013.35 | 0.2084 | P | 1.8 | 3.3 |

y = 9.9933E-004 * x + 0.0019
R = 0.9970
DL = 0.542 ppb
BEC = 1.891 ppb

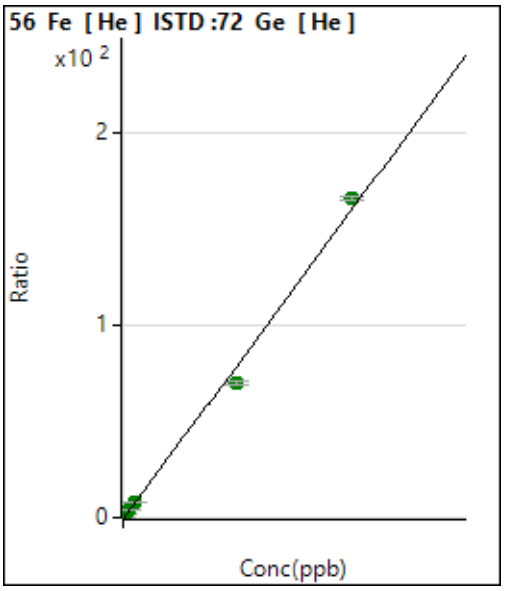
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 943.39 | 0.0015 | P | 18.2 | |
| 2 | ☐ | 2.000 | 1.955 | 9326.64 | 0.0144 | P | 5.7 | -2.2 |
| 3 | ☐ | 5.000 | 4.992 | 22151.42 | 0.0344 | P | 4.0 | -0.2 |
| 4 | ☐ | 10.000 | 9.935 | 42659.59 | 0.0671 | P | 3.4 | -0.6 |
| 5 | ☐ | 100.000 | 88.075 | 363694.25 | 0.5833 | P | 4.0 | -11.9 |
| 6 | ☐ | 200.000 | 205.966 | 804279.18 | 1.3622 | P | 1.9 | 3.0 |

y = 0.0066 * x + 0.0015
R = 0.9975
DL = 0.1207 ppb
BEC = 0.2212 ppb

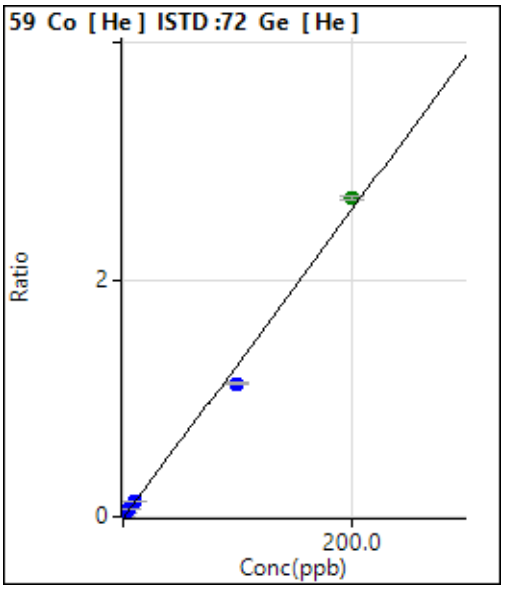
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 24465.37 | 0.0379 | P | 2.0 | |
| 2 | ☐ | 200.000 | 193.145 | 1031370.90 | 1.5900 | A | 2.1 | -3.4 |
| 3 | ☐ | 500.000 | 495.971 | 2587930.17 | 4.0235 | A | 2.7 | -0.8 |
| 4 | ☐ | 1000.000 | 1002.443 | 5145651.90 | 8.0935 | A | 1.8 | 0.2 |
| 5 | ☐ | 10000.00 | 8699.389 | 43610472.68 | 69.9459 | A | 3.4 | -13.0 |
| 6 | ☐ | 20000.00 | 20650.35 | 97997488.54 | 165.983 | A | 1.2 | 3.3 |

y = 0.0080 * x + 0.0379
R = 0.9971
DL = 0.2784 ppb
BEC = 4.713 ppb

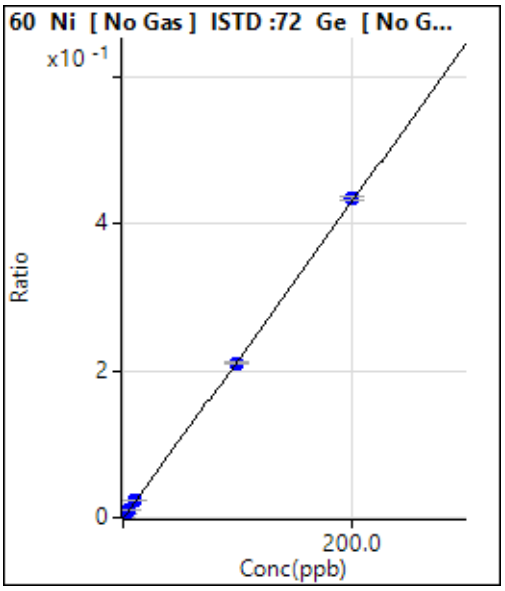
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 356.68 | 0.0006 | P | 19.1 | |
| 2 | ☐ | 2.000 | 1.908 | 16466.78 | 0.0254 | P | 4.3 | -4.6 |
| 3 | ☐ | 5.000 | 4.936 | 41669.99 | 0.0648 | P | 3.7 | -1.3 |
| 4 | ☐ | 10.000 | 9.877 | 82083.35 | 0.1291 | P | 2.7 | -1.2 |
| 5 | ☐ | 100.000 | 86.524 | 702455.25 | 1.1266 | P | 2.8 | -13.5 |
| 6 | ☐ | 200.000 | 206.747 | 1588902.63 | 2.6913 | A | 0.8 | 3.4 |

y = 0.0130 * x + 5.5129E-004
R = 0.9969
DL = 0.02431 ppb
BEC = 0.04236 ppb

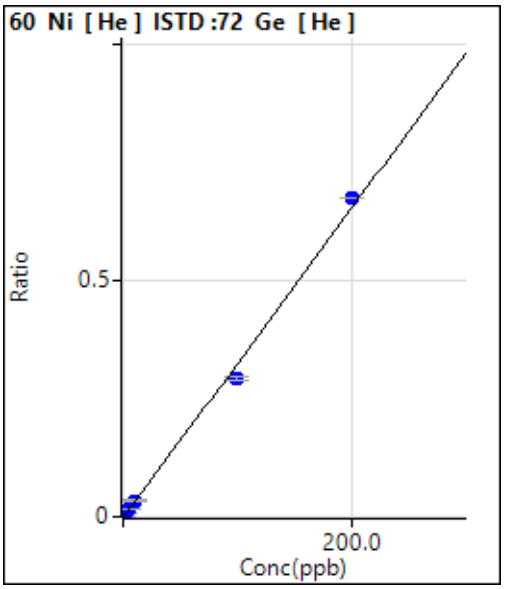
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1296.75 | 0.0006 | P | 10.2 | |
| 2 | ☐ | 2.000 | 1.999 | 11014.58 | 0.0049 | P | 1.0 | 0.0 |
| 3 | ☐ | 5.000 | 5.074 | 25781.12 | 0.0115 | P | 3.6 | 1.5 |
| 4 | ☐ | 10.000 | 10.241 | 49669.92 | 0.0226 | P | 1.7 | 2.4 |
| 5 | ☐ | 100.000 | 97.321 | 447036.97 | 0.2102 | P | 1.5 | -2.7 |
| 6 | ☐ | 200.000 | 201.326 | 884795.19 | 0.4342 | P | 1.8 | 0.7 |

y = 0.0022 * x + 5.7660E-004
R = 0.9999
DL = 0.08162 ppb
BEC = 0.2677 ppb

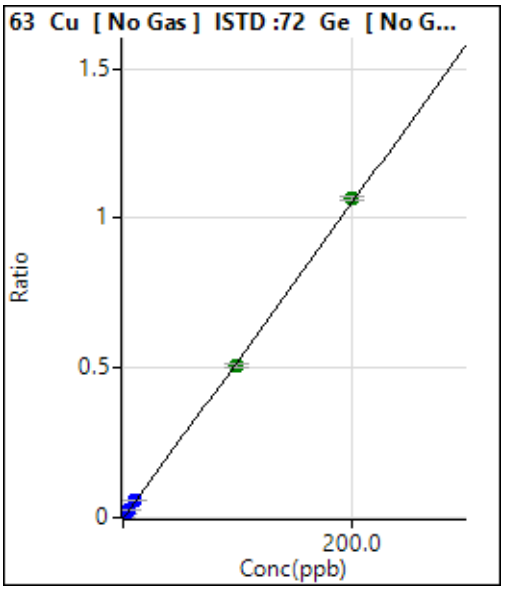
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 440.01 | 0.0007 | P | 5.4 | |
| 2 | ☐ | 2.000 | 2.054 | 4807.60 | 0.0074 | P | 5.4 | 2.7 |
| 3 | ☐ | 5.000 | 5.201 | 11401.58 | 0.0177 | P | 3.7 | 4.0 |
| 4 | ☐ | 10.000 | 10.179 | 21643.96 | 0.0340 | P | 3.0 | 1.8 |
| 5 | ☐ | 100.000 | 88.857 | 182002.89 | 0.2919 | P | 2.8 | -11.1 |
| 6 | ☐ | 200.000 | 205.557 | 398129.33 | 0.6744 | P | 0.2 | 2.8 |

y = 0.0033 * x + 6.8125E-004
R = 0.9978
DL = 0.03396 ppb
BEC = 0.2079 ppb

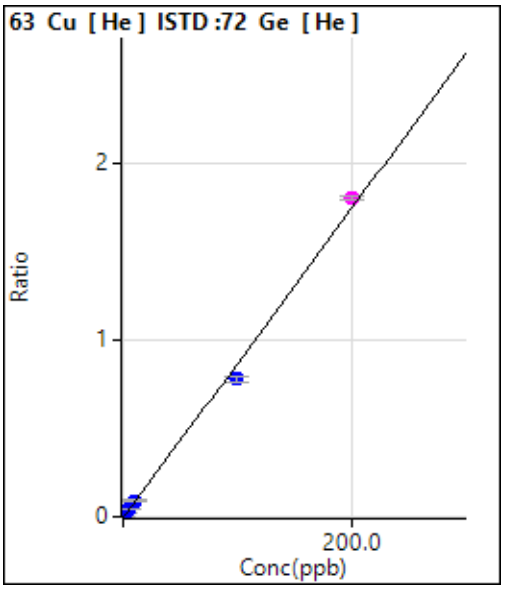
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3400.48 | 0.0015 | P | 6.0 | |
| 2 | ☐ | 2.000 | 2.032 | 27587.98 | 0.0122 | P | 3.5 | 1.6 |
| 3 | ☐ | 5.000 | 5.088 | 63506.38 | 0.0283 | P | 2.0 | 1.8 |
| 4 | ☐ | 10.000 | 10.319 | 122720.29 | 0.0559 | P | 3.2 | 3.2 |
| 5 | ☐ | 100.000 | 95.908 | 1078742.79 | 0.5072 | A | 1.8 | -4.1 |
| 6 | ☐ | 200.000 | 202.028 | 2173799.39 | 1.0668 | A | 1.6 | 1.0 |

y = 0.0053 * x + 0.0015
R = 0.9997
DL = 0.05152 ppb
BEC = 0.2868 ppb

Weight: <None>
Min Conc: <None>

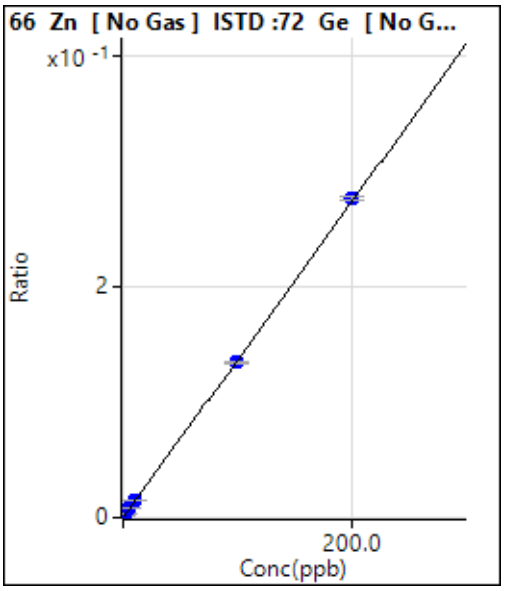



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1383.43 | 0.0021 | P | 13.3 | |
| 2 | ☐ | 2.000 | 2.092 | 13276.68 | 0.0205 | P | 1.9 | 4.6 |
| 3 | ☐ | 5.000 | 5.072 | 29952.99 | 0.0466 | P | 4.9 | 1.4 |
| 4 | ☐ | 10.000 | 10.277 | 58588.23 | 0.0922 | P | 0.9 | 2.8 |
| 5 | ☐ | 100.000 | 88.564 | 485025.33 | 0.7779 | P | 3.4 | -11.4 |
| 6 | ☐ | 200.000 | 205.702 | 1065071.18 | 1.8040 | M | 0.8 | 2.9 |

y = 0.0088 * x + 0.0021
R = 0.9977
DL = 0.09751 ppb
BEC = 0.2445 ppb

Weight: <None>
Min Conc: <None>

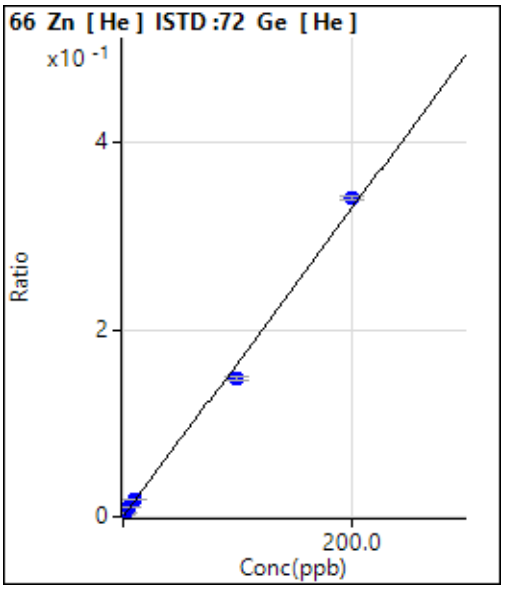
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3093.72 | 0.0014 | P | 5.9 | |
| 2 | ☐ | 2.000 | 1.887 | 8923.07 | 0.0040 | P | 3.3 | -5.7 |
| 3 | ☐ | 5.000 | 4.955 | 18262.39 | 0.0082 | P | 0.9 | -0.9 |
| 4 | ☐ | 10.000 | 10.244 | 33751.80 | 0.0154 | P | 2.8 | 2.4 |
| 5 | ☐ | 100.000 | 97.320 | 285894.18 | 0.1344 | P | 1.1 | -2.7 |
| 6 | ☐ | 200.000 | 201.330 | 563702.05 | 0.2766 | P | 1.0 | 0.7 |

y = 0.0014 * x + 0.0014
R = 0.9999
DL = 0.1775 ppb
BEC = 1.006 ppb

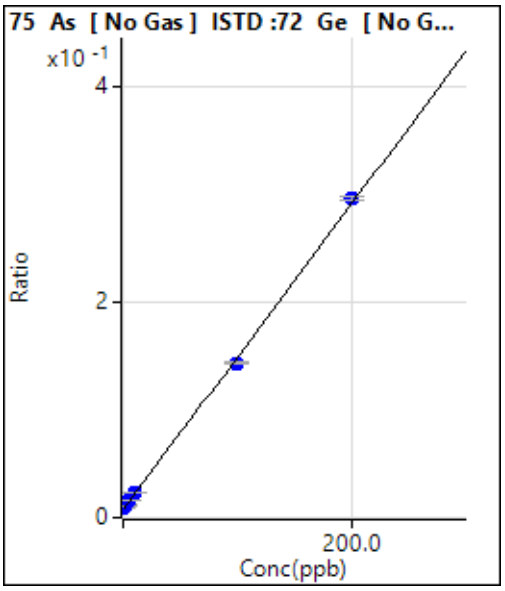
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1206.74 | 0.0019 | P | 19.6 | |
| 2 | ☐ | 2.000 | 1.854 | 3193.76 | 0.0049 | P | 3.3 | -7.3 |
| 3 | ☐ | 5.000 | 5.042 | 6548.33 | 0.0102 | P | 3.2 | 0.8 |
| 4 | ☐ | 10.000 | 9.819 | 11481.66 | 0.0181 | P | 6.0 | -1.8 |
| 5 | ☐ | 100.000 | 88.237 | 91882.98 | 0.1474 | P | 2.8 | -11.8 |
| 6 | ☐ | 200.000 | 205.891 | 201545.14 | 0.3414 | P | 1.0 | 2.9 |

y = 0.0016 * x + 0.0019
R = 0.9976
DL = 0.666 ppb
BEC = 1.132 ppb

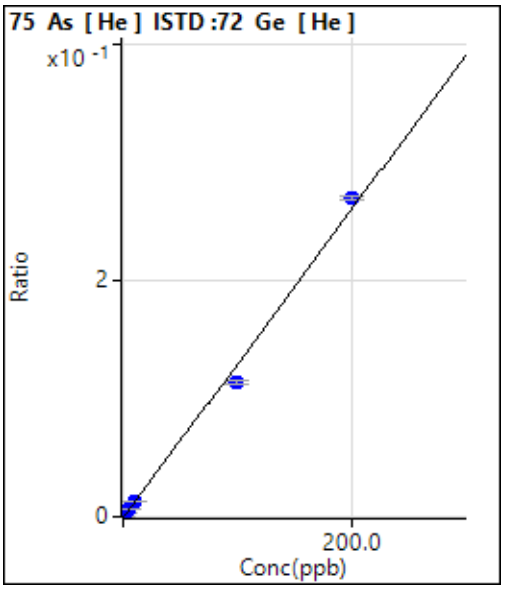
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 20405.60 | 0.0091 | P | 0.5 | |
| 2 | ☐ | 2.000 | 1.771 | 26142.09 | 0.0116 | P | 3.9 | -11.5 |
| 3 | ☐ | 5.000 | 4.816 | 35646.90 | 0.0159 | P | 3.4 | -3.7 |
| 4 | ☐ | 10.000 | 9.970 | 50961.94 | 0.0232 | P | 1.4 | -0.3 |
| 5 | ☐ | 100.000 | 94.882 | 305659.60 | 0.1437 | P | 0.6 | -5.1 |
| 6 | ☐ | 200.000 | 202.567 | 604293.97 | 0.2966 | P | 0.7 | 1.3 |

y = 0.0014 * x + 0.0091
R = 0.9995
DL = 0.09065 ppb
BEC = 6.394 ppb

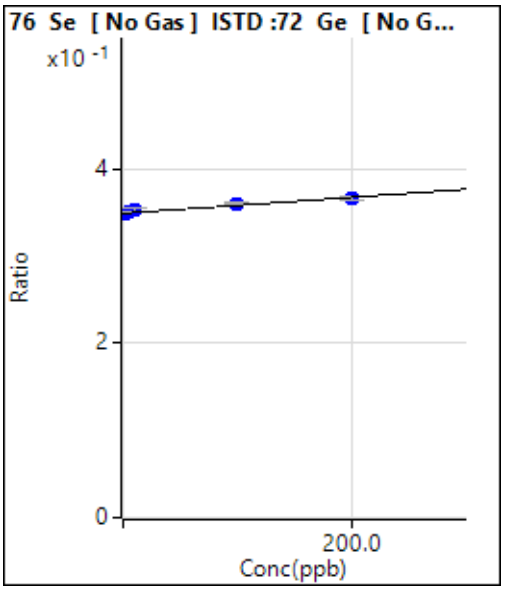
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 246.67 | 0.0004 | P | 9.0 | |
| 2 | ☐ | 2.000 | 1.880 | 1841.25 | 0.0028 | P | 5.8 | -6.0 |
| 3 | ☐ | 5.000 | 4.872 | 4340.72 | 0.0067 | P | 2.4 | -2.6 |
| 4 | ☐ | 10.000 | 9.768 | 8359.27 | 0.0131 | P | 3.1 | -2.3 |
| 5 | ☐ | 100.000 | 87.238 | 71322.90 | 0.1144 | P | 3.0 | -12.8 |
| 6 | ☐ | 200.000 | 206.397 | 159478.93 | 0.2701 | P | 1.3 | 3.2 |

y = 0.0013 * x + 3.8182E-004
R = 0.9972
DL = 0.07929 ppb
BEC = 0.2922 ppb

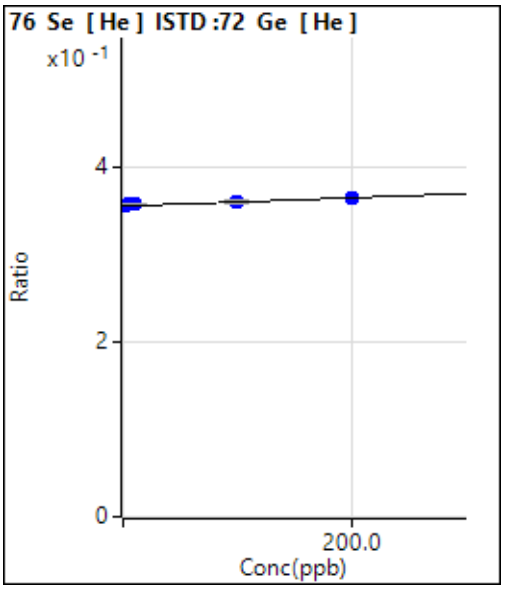
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 785402.85 | 0.3493 | P | 0.5 | |
| 2 | ☐ | 2.000 | -10.525 | 785730.66 | 0.3483 | P | 0.7 | -626.2 |
| 3 | ☐ | 5.000 | 8.988 | 784468.40 | 0.3501 | P | 0.5 | 79.8 |
| 4 | ☐ | 10.000 | 45.030 | 775596.06 | 0.3535 | P | 0.8 | 350.3 |
| 5 | ☐ | 100.000 | 122.768 | 766977.41 | 0.3607 | P | 0.7 | 22.8 |
| 6 | ☐ | 200.000 | 186.890 | 747070.67 | 0.3666 | P | 0.7 | -6.6 |

y = 9.2810E-005 * x + 0.3493
R = 0.9716
DL = 54.2 ppb
BEC = 3763 ppb

Weight: <None>
Min Conc: <None>

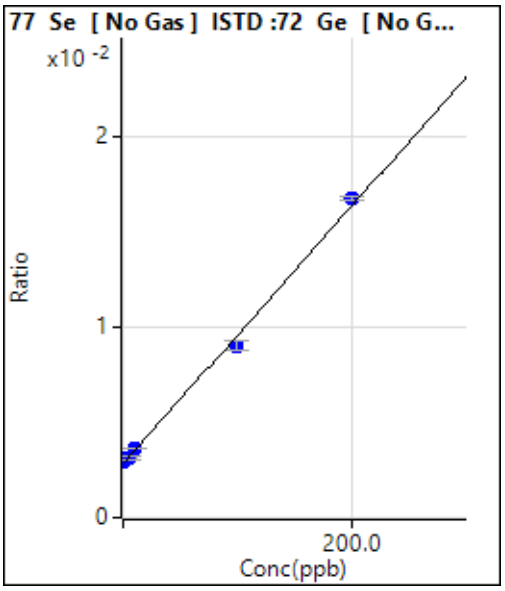



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 230100.96 | 0.3562 | P | 1.1 | |
| 2 | ☐ | 2.000 | 21.314 | 231705.33 | 0.3572 | P | 1.2 | 965.7 |
| 3 | ☐ | 5.000 | 44.212 | 230473.84 | 0.3583 | P | 0.9 | 784.2 |
| 4 | ☐ | 10.000 | 39.140 | 227624.43 | 0.3581 | P | 1.1 | 291.4 |
| 5 | ☐ | 100.000 | 106.791 | 225319.13 | 0.3614 | P | 1.0 | 6.8 |
| 6 | ☐ | 200.000 | 193.974 | 215835.91 | 0.3656 | P | 0.6 | -3.0 |

y = 4.8723E-005 * x + 0.3562
R = 0.9825
DL = 237.2 ppb
BEC = 7310 ppb

Weight: <None>
Min Conc: <None>

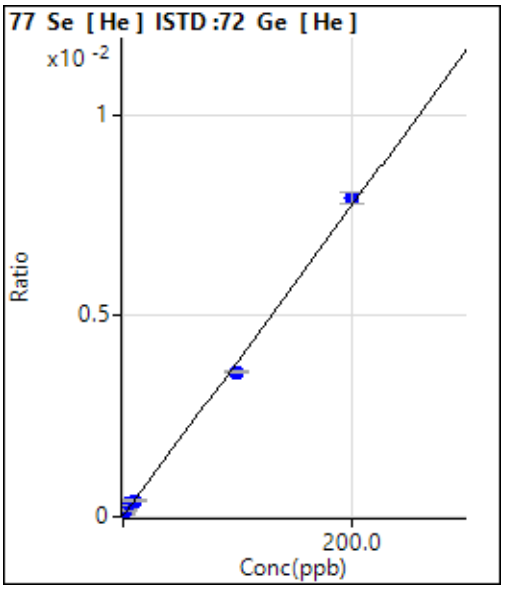
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6575.05 | 0.0029 | P | 2.6 | |
| 2 | ☐ | 2.000 | 2.690 | 7005.25 | 0.0031 | P | 2.8 | 34.5 |
| 3 | ☐ | 5.000 | 2.919 | 6991.93 | 0.0031 | P | 3.9 | -41.6 |
| 4 | ☐ | 10.000 | 10.318 | 7942.41 | 0.0036 | P | 0.3 | 3.2 |
| 5 | ☐ | 100.000 | 90.259 | 19160.46 | 0.0090 | P | 5.2 | -9.7 |
| 6 | ☐ | 200.000 | 204.900 | 34102.98 | 0.0167 | P | 0.9 | 2.4 |

y = 6.7408E-005 * x + 0.0029
R = 0.9983
DL = 3.425 ppb
BEC = 43.38 ppb

Weight: <None>
Min Conc: <None>

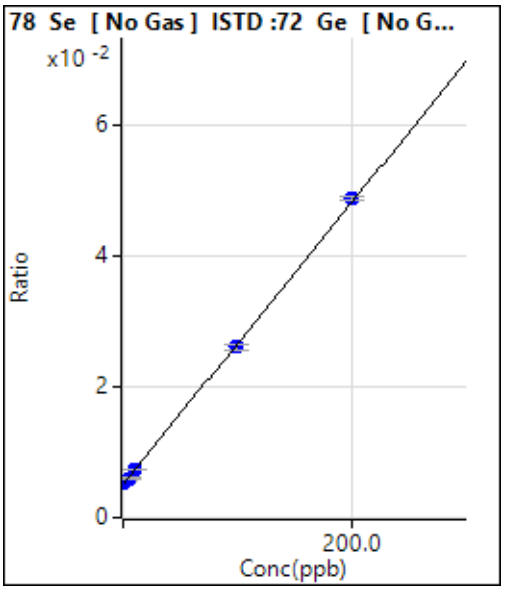



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 36.67 | 0.0001 | P | 55.6 | |
| 2 | ☐ | 2.000 | 2.531 | 100.00 | 0.0002 | P | 36.0 | 26.6 |
| 3 | ☐ | 5.000 | 7.265 | 216.67 | 0.0003 | P | 23.4 | 45.3 |
| 4 | ☐ | 10.000 | 8.870 | 253.34 | 0.0004 | P | 6.7 | -11.3 |
| 5 | ☐ | 100.000 | 91.966 | 2246.89 | 0.0036 | P | 1.7 | -8.0 |
| 6 | ☐ | 200.000 | 204.011 | 4677.57 | 0.0079 | P | 3.6 | 2.0 |

y = 3.8567E-005 * x + 5.6528E-005
R = 0.9987
DL = 2.447 ppb
BEC = 1.466 ppb

Weight: <None>
Min Conc: <None>

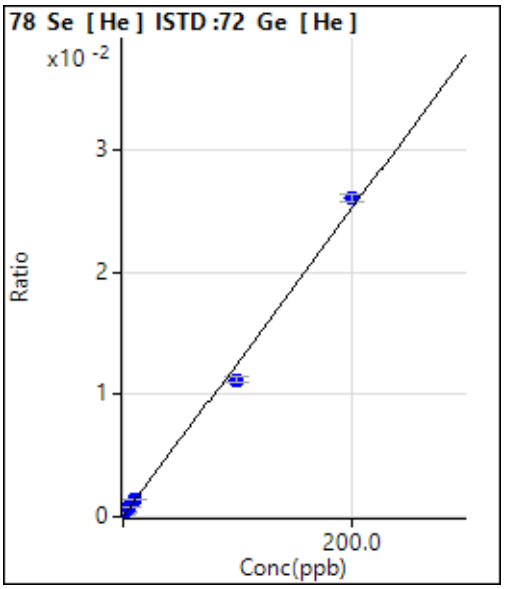
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 11948.76 | 0.0053 | P | 0.4 | |
| 2 | ☐ | 2.000 | 1.475 | 12702.84 | 0.0056 | P | 3.6 | -26.3 |
| 3 | ☐ | 5.000 | 2.951 | 13330.09 | 0.0059 | P | 2.8 | -41.0 |
| 4 | ☐ | 10.000 | 9.648 | 16216.61 | 0.0074 | P | 2.1 | -3.5 |
| 5 | ☐ | 100.000 | 96.392 | 55422.67 | 0.0261 | P | 2.7 | -3.6 |
| 6 | ☐ | 200.000 | 201.878 | 99363.64 | 0.0488 | P | 1.7 | 0.9 |

y = 2.1521E-004 * x + 0.0053
R = 0.9998
DL = 0.3306 ppb
BEC = 24.69 ppb

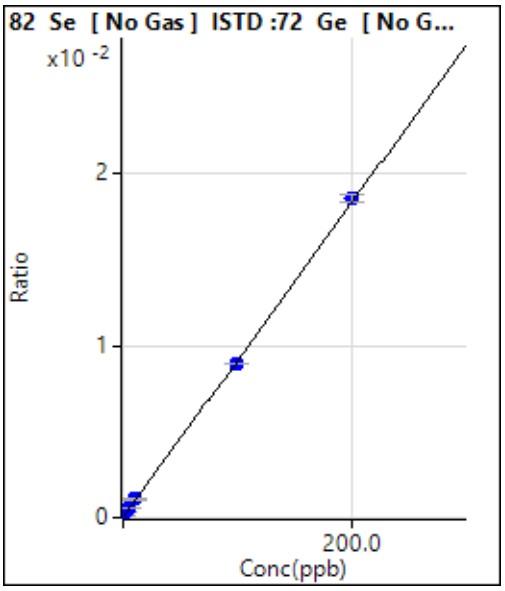
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 105.33 | 0.0002 | P | 10.4 | |
| 2 | ☐ | 2.000 | 1.852 | 257.33 | 0.0004 | P | 5.0 | -7.4 |
| 3 | ☐ | 5.000 | 4.444 | 465.34 | 0.0007 | P | 0.3 | -11.1 |
| 4 | ☐ | 10.000 | 10.327 | 931.37 | 0.0015 | P | 3.2 | 3.3 |
| 5 | ☐ | 100.000 | 87.985 | 7019.16 | 0.0113 | P | 4.6 | -12.0 |
| 6 | ☐ | 200.000 | 206.007 | 15434.74 | 0.0261 | P | 2.5 | 3.0 |

y = 1.2610E-004 * x + 1.6315E-004
R = 0.9975
DL = 0.4025 ppb
BEC = 1.294 ppb

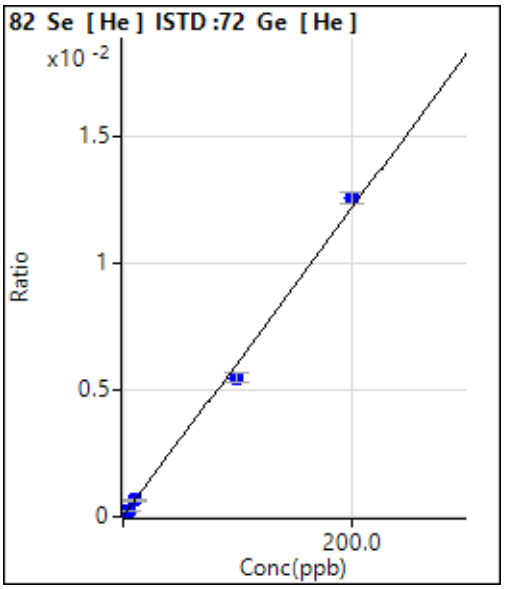
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 270.01 | 0.0001 | P | 17.0 | |
| 2 | ☐ | 2.000 | 2.047 | 693.37 | 0.0003 | P | 9.7 | 2.4 |
| 3 | ☐ | 5.000 | 4.607 | 1213.41 | 0.0005 | P | 12.5 | -7.9 |
| 4 | ☐ | 10.000 | 10.477 | 2366.92 | 0.0011 | P | 7.3 | 4.8 |
| 5 | ☐ | 100.000 | 96.262 | 18983.45 | 0.0089 | P | 0.4 | -3.7 |
| 6 | ☐ | 200.000 | 201.854 | 37876.37 | 0.0186 | P | 2.6 | 0.9 |

y = 9.1487E-005 * x + 1.2008E-004
R = 0.9997
DL = 0.6702 ppb
BEC = 1.313 ppb

Weight: <None>
Min Conc: <None>

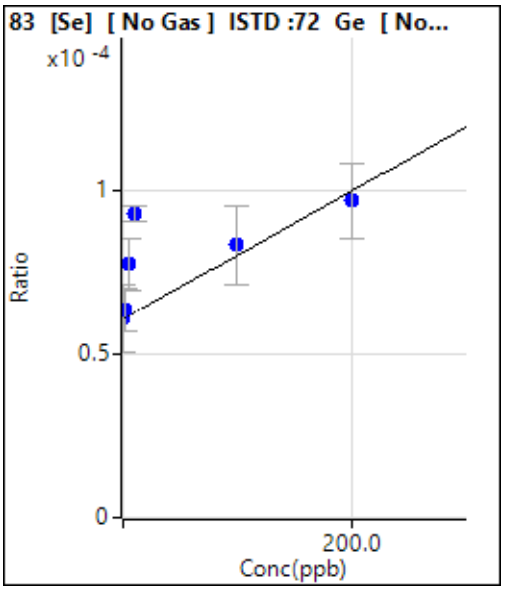



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 53.33 | 0.0001 | P | 46.2 | |
| 2 | ☐ | 2.000 | 1.946 | 130.00 | 0.0002 | P | 38.4 | -2.7 |
| 3 | ☐ | 5.000 | 2.488 | 150.00 | 0.0002 | P | 13.4 | -50.2 |
| 4 | ☐ | 10.000 | 9.706 | 426.69 | 0.0007 | P | 8.8 | -2.9 |
| 5 | ☐ | 100.000 | 88.723 | 3407.17 | 0.0055 | P | 6.5 | -11.3 |
| 6 | ☐ | 200.000 | 205.717 | 7415.47 | 0.0126 | P | 3.5 | 2.9 |

y = 6.0672E-005 * x + 8.2304E-005
R = 0.9978
DL = 1.879 ppb
BEC = 1.357 ppb

Weight: <None>
Min Conc: <None>

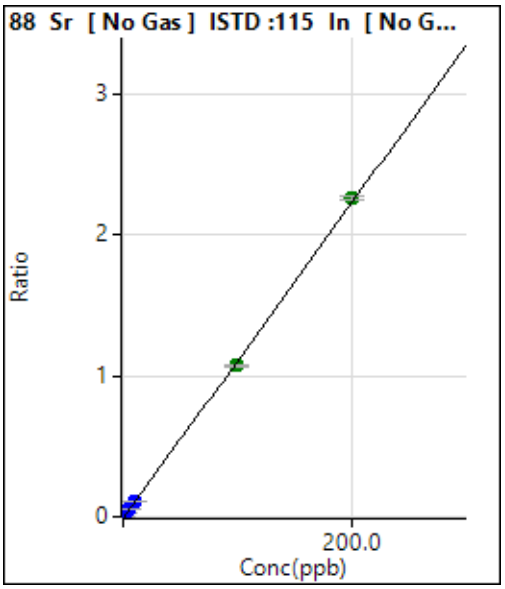
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 136.67 | 0.0001 | P | 33.2 | |
| 2 | ☐ | 2.000 | 13.882 | 143.33 | 0.0001 | P | 19.9 | 594.1 |
| 3 | ☐ | 5.000 | 84.848 | 173.34 | 0.0001 | P | 20.5 | 1597.0 |
| 4 | ☐ | 10.000 | 163.015 | 203.34 | 0.0001 | P | 5.2 | 1530.1 |
| 5 | ☐ | 100.000 | 114.513 | 176.67 | 0.0001 | P | 29.1 | 14.5 |
| 6 | ☐ | 200.000 | 182.978 | 196.67 | 0.0001 | P | 23.2 | -8.5 |

y = 1.9536E-007 * x + 6.0804E-005
R = 0.6681
DL = 309.7 ppb
BEC = 311.2 ppb

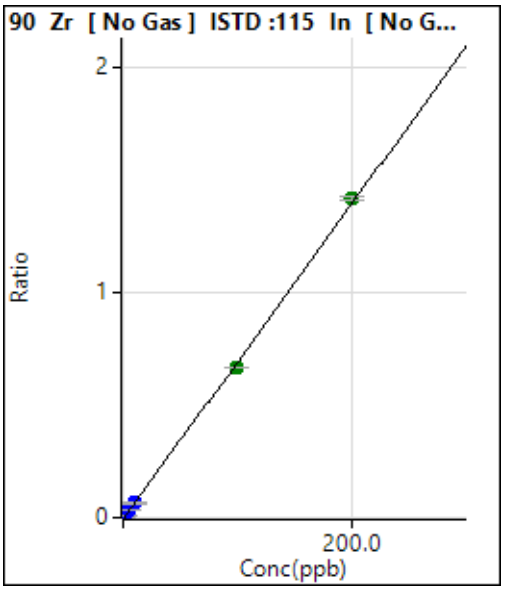
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2777.00 | 0.0009 | P | 11.9 | |
| 2 | ☐ | 2.000 | 1.920 | 70710.92 | 0.0223 | P | 3.0 | -4.0 |
| 3 | ☐ | 5.000 | 4.858 | 173739.71 | 0.0552 | P | 1.4 | -2.8 |
| 4 | ☐ | 10.000 | 9.998 | 351250.39 | 0.1126 | P | 1.5 | 0.0 |
| 5 | ☐ | 100.000 | 95.609 | 3198230.89 | 1.0696 | A | 0.3 | -4.4 |
| 6 | ☐ | 200.000 | 202.200 | 6478697.61 | 2.2611 | A | 1.4 | 1.1 |

y = 0.0112 * x + 8.7612E-004
R = 0.9997
DL = 0.02788 ppb
BEC = 0.07838 ppb

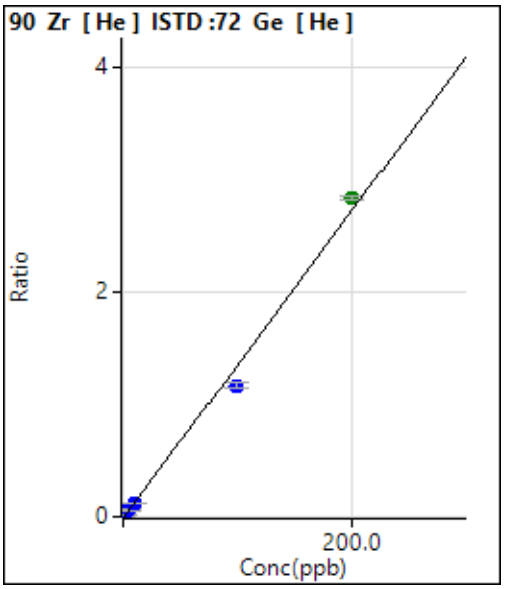
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1566.78 | 0.0005 | P | 11.1 | |
| 2 | ☐ | 2.000 | 1.588 | 36733.57 | 0.0116 | P | 4.2 | -20.6 |
| 3 | ☐ | 5.000 | 4.329 | 96932.76 | 0.0308 | P | 3.4 | -13.4 |
| 4 | ☐ | 10.000 | 9.103 | 200192.25 | 0.0642 | P | 2.8 | -9.0 |
| 5 | ☐ | 100.000 | 94.896 | 1987143.20 | 0.6646 | A | 0.5 | -5.1 |
| 6 | ☐ | 200.000 | 202.618 | 4064135.77 | 1.4184 | A | 1.6 | 1.3 |

y = 0.0070 * x + 4.9428E-004
R = 0.9996
DL = 0.02359 ppb
BEC = 0.07063 ppb

Weight: <None>
Min Conc: <None>

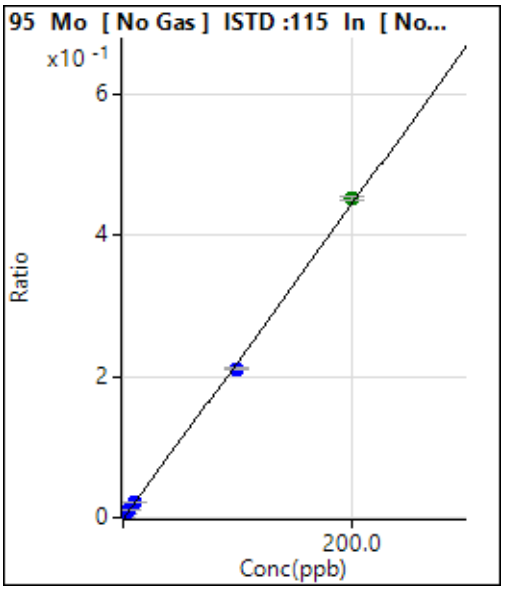



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1283.43 | 0.0020 | P | 21.7 | |
| 2 | ☐ | 2.000 | 1.581 | 15302.24 | 0.0236 | P | 1.1 | -21.0 |
| 3 | ☐ | 5.000 | 4.299 | 39069.96 | 0.0607 | P | 3.9 | -14.0 |
| 4 | ☐ | 10.000 | 8.981 | 79315.50 | 0.1247 | P | 3.4 | -10.2 |
| 5 | ☐ | 100.000 | 85.289 | 728032.52 | 1.1677 | P | 3.9 | -14.7 |
| 6 | ☐ | 200.000 | 207.428 | 1675053.83 | 2.8371 | A | 1.7 | 3.7 |

y = 0.0137 * x + 0.0020
R = 0.9964
DL = 0.09475 ppb
BEC = 0.1454 ppb

Weight: <None>
Min Conc: <None>

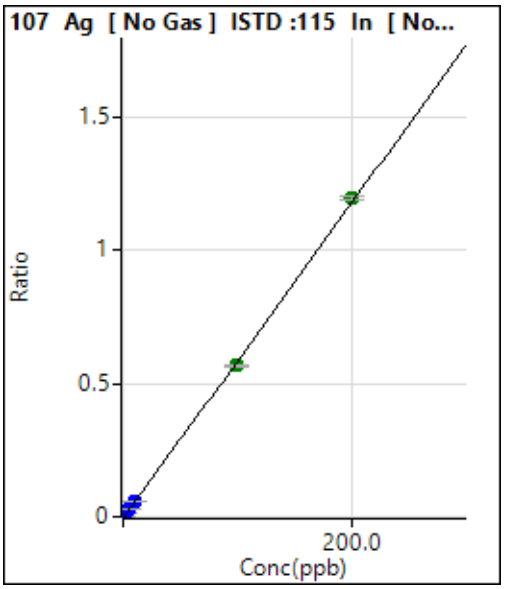
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 290.01 | 0.0001 | P | 13.5 | |
| 2 | ☐ | 2.000 | 1.881 | 13563.74 | 0.0043 | P | 5.4 | -6.0 |
| 3 | ☐ | 5.000 | 4.702 | 33304.97 | 0.0106 | P | 2.5 | -6.0 |
| 4 | ☐ | 10.000 | 9.610 | 67123.83 | 0.0215 | P | 3.4 | -3.9 |
| 5 | ☐ | 100.000 | 94.408 | 629842.45 | 0.2106 | P | 1.0 | -5.6 |
| 6 | ☐ | 200.000 | 202.824 | 1296346.39 | 0.4524 | A | 1.6 | 1.4 |

y = 0.0022 * x + 9.1425E-005
R = 0.9995
DL = 0.01659 ppb
BEC = 0.04099 ppb

Weight: <None>
Min Conc: <None>

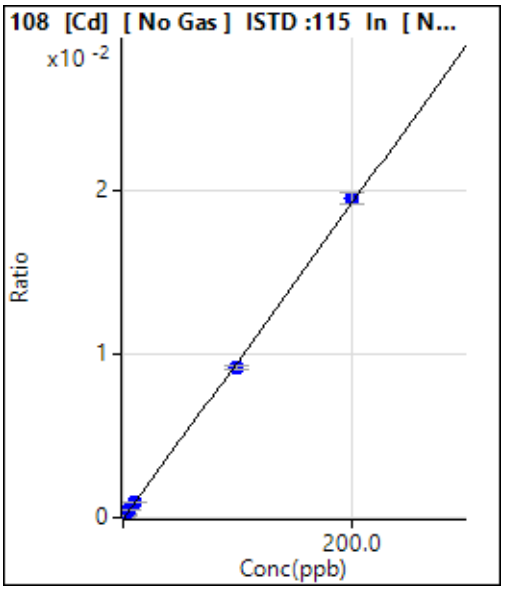



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1240.08 | 0.0004 | P | 3.7 | |
| 2 | ☐ | 2.000 | 1.990 | 38502.31 | 0.0122 | P | 3.6 | -0.5 |
| 3 | ☐ | 5.000 | 4.927 | 93038.69 | 0.0295 | P | 2.9 | -1.5 |
| 4 | ☐ | 10.000 | 10.096 | 187552.87 | 0.0601 | P | 1.2 | 1.0 |
| 5 | ☐ | 100.000 | 95.840 | 1697216.07 | 0.5676 | A | 1.1 | -4.2 |
| 6 | ☐ | 200.000 | 202.077 | 3427843.39 | 1.1963 | A | 1.3 | 1.0 |

y = 0.0059 * x + 3.9109E-004
R = 0.9997
DL = 0.007261 ppb
BEC = 0.06608 ppb

Weight: <None>
Min Conc: <None>

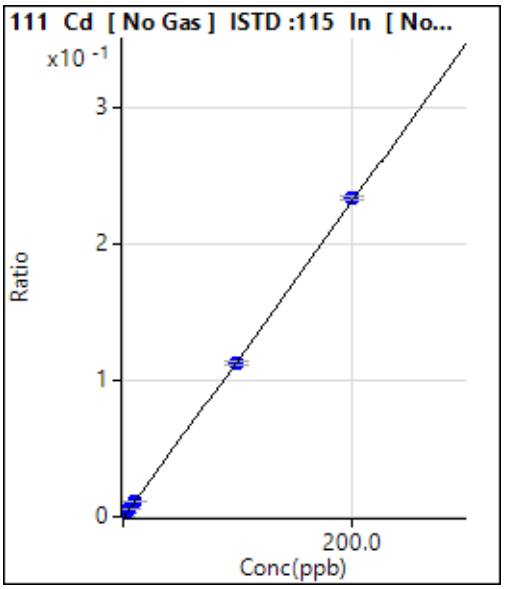
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6.67 | 0.0000 | P | 86.6 | |
| 2 | ☐ | 2.000 | 1.776 | 550.02 | 0.0002 | P | 15.9 | -11.2 |
| 3 | ☐ | 5.000 | 4.837 | 1480.11 | 0.0005 | P | 6.3 | -3.3 |
| 4 | ☐ | 10.000 | 9.406 | 2843.68 | 0.0009 | P | 3.9 | -5.9 |
| 5 | ☐ | 100.000 | 95.277 | 27565.37 | 0.0092 | P | 2.1 | -4.7 |
| 6 | ☐ | 200.000 | 202.398 | 56104.53 | 0.0196 | P | 3.1 | 1.2 |

y = 9.6732E-005 * x + 2.1093E-006
R = 0.9996
DL = 0.05665 ppb
BEC = 0.02181 ppb

Weight: <None>
Min Conc: <None>

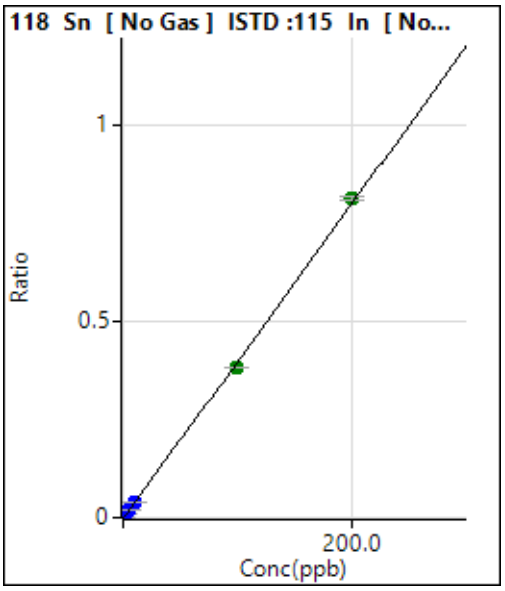



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 109.51 | 0.0000 | P | 18.8 | |
| 2 | ☐ | 2.000 | 1.944 | 7242.25 | 0.0023 | P | 0.8 | -2.8 |
| 3 | ☐ | 5.000 | 4.985 | 18307.00 | 0.0058 | P | 2.0 | -0.3 |
| 4 | ☐ | 10.000 | 9.992 | 36233.55 | 0.0116 | P | 3.6 | -0.1 |
| 5 | ☐ | 100.000 | 96.840 | 335789.94 | 0.1123 | P | 2.3 | -3.2 |
| 6 | ☐ | 200.000 | 201.581 | 669657.46 | 0.2337 | P | 1.5 | 0.8 |

y = 0.0012 * x + 3.4552E-005
R = 0.9998
DL = 0.0168 ppb
BEC = 0.02981 ppb

Weight: <None>
Min Conc: <None>

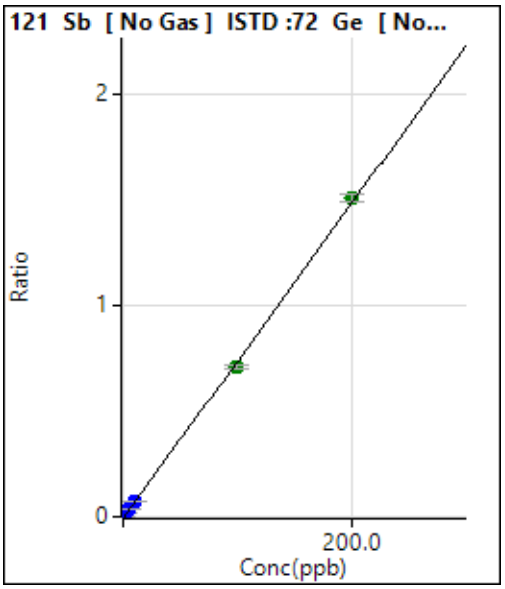
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3790.62 | 0.0012 | P | 8.8 | |
| 2 | ☐ | 2.000 | 1.940 | 28390.61 | 0.0090 | P | 3.5 | -3.0 |
| 3 | ☐ | 5.000 | 4.829 | 64680.30 | 0.0205 | P | 1.7 | -3.4 |
| 4 | ☐ | 10.000 | 9.866 | 126999.63 | 0.0407 | P | 3.3 | -1.3 |
| 5 | ☐ | 100.000 | 94.845 | 1139860.84 | 0.3812 | A | 0.5 | -5.2 |
| 6 | ☐ | 200.000 | 202.589 | 2329240.33 | 0.8129 | A | 1.4 | 1.3 |

y = 0.0040 * x + 0.0012
R = 0.9995
DL = 0.07919 ppb
BEC = 0.2984 ppb

Weight: <None>
Min Conc: <None>

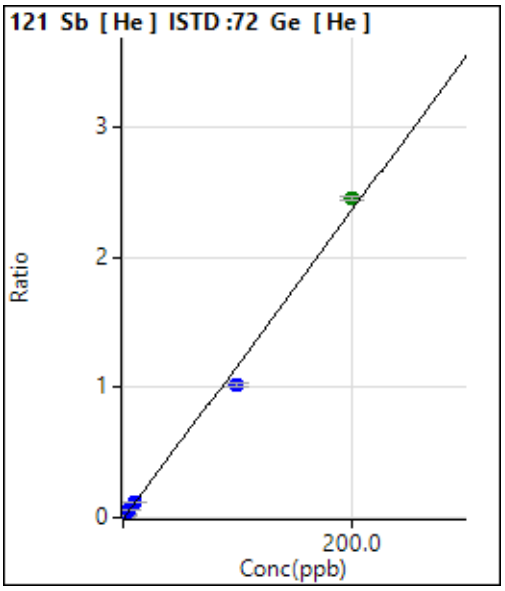



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 996.72 | 0.0004 | P | 12.2 | |
| 2 | ☐ | 2.000 | 1.913 | 33151.72 | 0.0147 | P | 3.3 | -4.3 |
| 3 | ☐ | 5.000 | 4.844 | 81841.87 | 0.0365 | P | 1.4 | -3.1 |
| 4 | ☐ | 10.000 | 9.914 | 163014.92 | 0.0743 | P | 1.2 | -0.9 |
| 5 | ☐ | 100.000 | 95.148 | 1508211.80 | 0.7092 | A | 1.4 | -4.9 |
| 6 | ☐ | 200.000 | 202.435 | 3073545.47 | 1.5083 | A | 1.9 | 1.2 |

y = 0.0074 * x + 4.4331E-004
R = 0.9996
DL = 0.02185 ppb
BEC = 0.05952 ppb

Weight: <None>
Min Conc: <None>

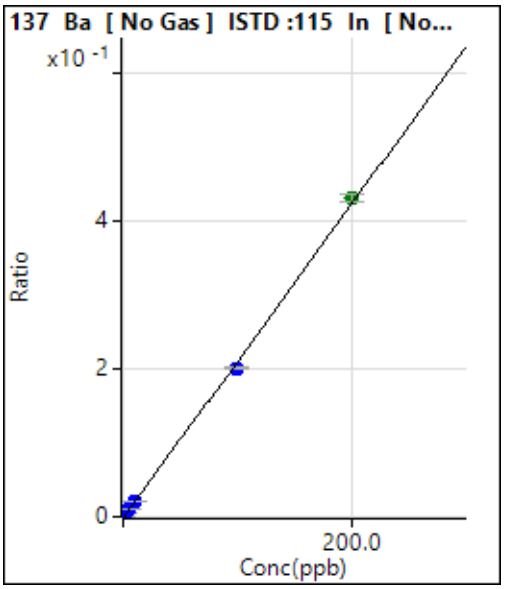
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 450.02 | 0.0007 | P | 12.4 | |
| 2 | ☐ | 2.000 | 1.839 | 14564.87 | 0.0225 | P | 3.8 | -8.1 |
| 3 | ☐ | 5.000 | 4.635 | 35725.08 | 0.0555 | P | 1.5 | -7.3 |
| 4 | ☐ | 10.000 | 9.661 | 73124.42 | 0.1150 | P | 1.4 | -3.4 |
| 5 | ☐ | 100.000 | 85.995 | 634879.58 | 1.0183 | P | 3.3 | -14.0 |
| 6 | ☐ | 200.000 | 207.030 | 1446760.45 | 2.4505 | A | 0.9 | 3.5 |

y = 0.0118 * x + 6.9649E-004
R = 0.9966
DL = 0.02188 ppb
BEC = 0.05886 ppb

Weight: <None>
Min Conc: <None>

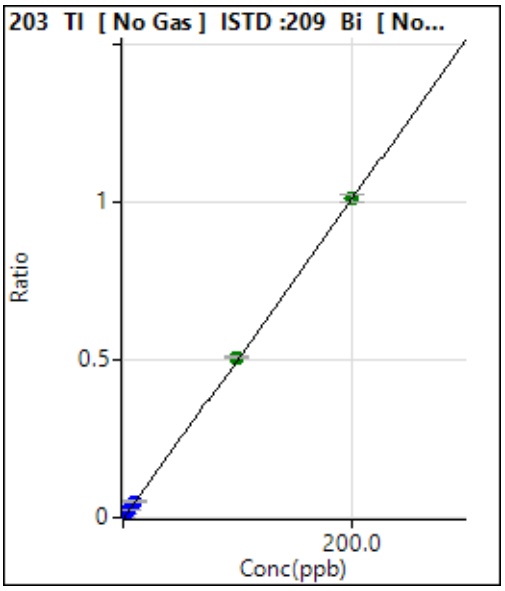



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 810.04 | 0.0003 | P | 16.4 | |
| 2 | ☐ | 2.000 | 1.915 | 13714.08 | 0.0043 | P | 1.6 | -4.2 |
| 3 | ☐ | 5.000 | 4.933 | 33867.33 | 0.0108 | P | 2.8 | -1.3 |
| 4 | ☐ | 10.000 | 9.796 | 65824.80 | 0.0211 | P | 1.6 | -2.0 |
| 5 | ☐ | 100.000 | 94.395 | 601570.19 | 0.2012 | P | 0.6 | -5.6 |
| 6 | ☐ | 200.000 | 202.815 | 1237724.43 | 0.4320 | A | 2.3 | 1.4 |

y = 0.0021 * x + 2.5548E-004
R = 0.9995
DL = 0.05893 ppb
BEC = 0.12 ppb

Weight: <None>
Min Conc: <None>

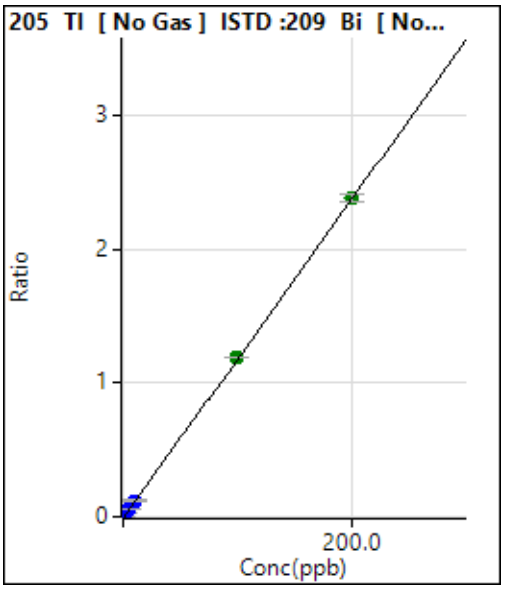
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 866.71 | 0.0003 | P | 8.3 | |
| 2 | ☐ | 2.000 | 2.131 | 37850.45 | 0.0110 | P | 3.2 | 6.6 |
| 3 | ☐ | 5.000 | 5.241 | 91281.88 | 0.0268 | P | 2.2 | 4.8 |
| 4 | ☐ | 10.000 | 10.113 | 175035.35 | 0.0515 | P | 2.6 | 1.1 |
| 5 | ☐ | 100.000 | 100.386 | 1650438.46 | 0.5088 | A | 0.2 | 0.4 |
| 6 | ☐ | 200.000 | 199.794 | 3143447.76 | 1.0124 | A | 2.3 | -0.1 |

y = 0.0051 * x + 2.5288E-004
R = 1.0000
DL = 0.01247 ppb
BEC = 0.04992 ppb

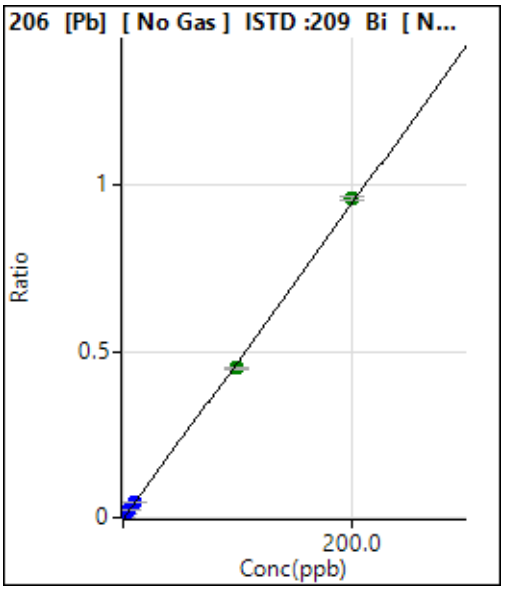
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2063.54 | 0.0006 | P | 3.0 | |
| 2 | ☐ | 2.000 | 2.112 | 88268.41 | 0.0258 | P | 2.3 | 5.6 |
| 3 | ☐ | 5.000 | 5.242 | 214774.69 | 0.0631 | P | 2.1 | 4.8 |
| 4 | ☐ | 10.000 | 10.149 | 413145.59 | 0.1215 | P | 1.5 | 1.5 |
| 5 | ☐ | 100.000 | 100.212 | 3875105.04 | 1.1946 | A | 0.5 | 0.2 |
| 6 | ☐ | 200.000 | 199.879 | 7396313.43 | 2.3821 | A | 2.3 | -0.1 |

y = 0.0119 * x + 6.0191E-004
R = 1.0000
DL = 0.004486 ppb
BEC = 0.05052 ppb

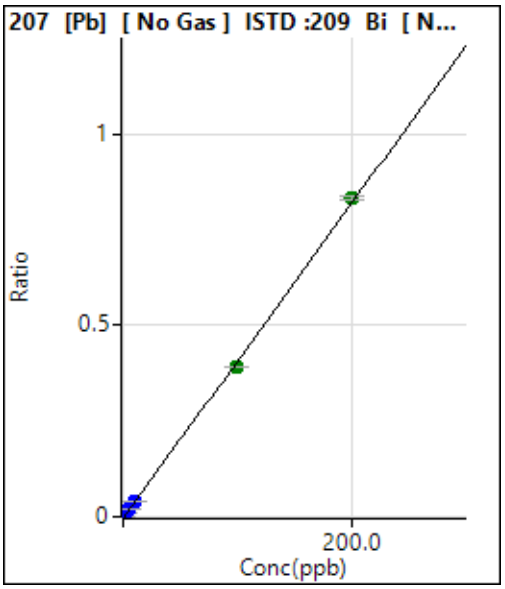
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1060.06 | 0.0003 | P | 8.7 | |
| 2 | ☐ | 2.000 | 1.931 | 32452.31 | 0.0095 | P | 4.9 | -3.4 |
| 3 | ☐ | 5.000 | 4.835 | 79191.23 | 0.0233 | P | 1.6 | -3.3 |
| 4 | ☐ | 10.000 | 9.773 | 158722.58 | 0.0467 | P | 1.1 | -2.3 |
| 5 | ☐ | 100.000 | 94.686 | 1458457.11 | 0.4496 | A | 0.6 | -5.3 |
| 6 | ☐ | 200.000 | 202.673 | 2986989.65 | 0.9620 | A | 1.6 | 1.3 |

y = 0.0047 * x + 3.0914E-004
R = 0.9995
DL = 0.01696 ppb
BEC = 0.06515 ppb

Weight: <None>
Min Conc: <None>

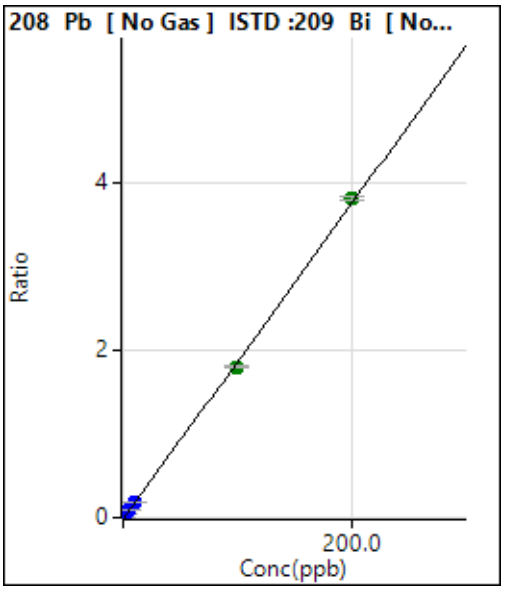



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 993.39 | 0.0003 | P | 11.3 | |
| 2 | ☐ | 2.000 | 1.918 | 28068.23 | 0.0082 | P | 1.8 | -4.1 |
| 3 | ☐ | 5.000 | 4.879 | 69444.53 | 0.0204 | P | 2.3 | -2.4 |
| 4 | ☐ | 10.000 | 10.016 | 141282.24 | 0.0416 | P | 0.9 | 0.2 |
| 5 | ☐ | 100.000 | 95.300 | 1274611.99 | 0.3929 | A | 0.7 | -4.7 |
| 6 | ☐ | 200.000 | 202.353 | 2589504.70 | 0.8340 | A | 1.3 | 1.2 |

y = 0.0041 * x + 2.8962E-004
R = 0.9996
DL = 0.02393 ppb
BEC = 0.0703 ppb

Weight: <None>
Min Conc: <None>

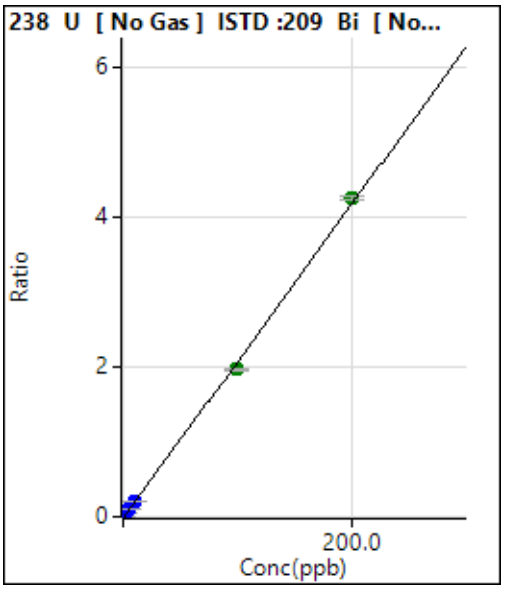
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 4403.72 | 0.0013 | P | 6.1 | |
| 2 | ☐ | 2.000 | 1.947 | 130015.42 | 0.0380 | P | 2.4 | -2.7 |
| 3 | ☐ | 5.000 | 4.885 | 317756.55 | 0.0933 | P | 1.5 | -2.3 |
| 4 | ☐ | 10.000 | 9.891 | 637771.18 | 0.1876 | P | 1.4 | -1.1 |
| 5 | ☐ | 100.000 | 95.250 | 5824240.82 | 1.7954 | A | 1.1 | -4.8 |
| 6 | ☐ | 200.000 | 202.384 | 11840379.88 | 3.8133 | A | 1.3 | 1.2 |

y = 0.0188 * x + 0.0013
R = 0.9996
DL = 0.01253 ppb
BEC = 0.06818 ppb

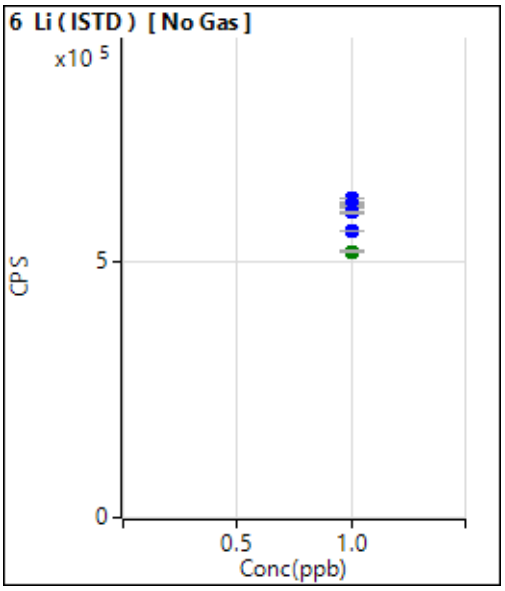
Weight: <None>
Min Conc: <None>



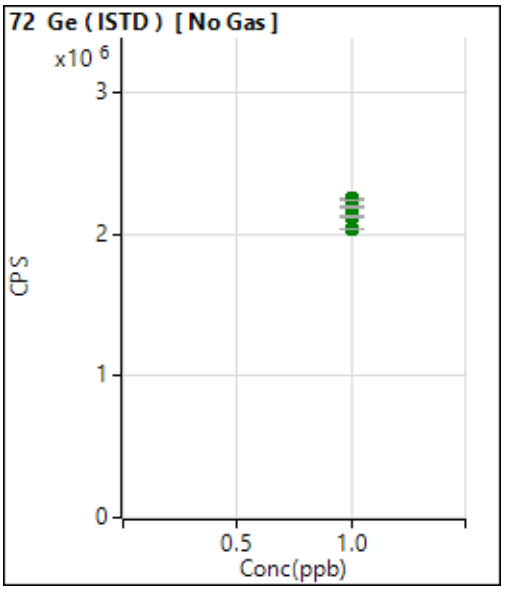

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2500.31 | 0.0007 | P | 2.9 | |
| 2 | ☐ | 2.000 | 1.832 | 134175.31 | 0.0392 | P | 1.1 | -8.4 |
| 3 | ☐ | 5.000 | 4.618 | 332485.70 | 0.0976 | P | 2.6 | -7.6 |
| 4 | ☐ | 10.000 | 9.384 | 671843.46 | 0.1976 | P | 2.2 | -6.2 |
| 5 | ☐ | 100.000 | 94.090 | 6405808.65 | 1.9746 | A | 1.3 | -5.9 |
| 6 | ☐ | 200.000 | 202.997 | 13225565.64 | 4.2594 | A | 1.1 | 1.5 |

y = 0.0210 * x + 7.2934E-004
R = 0.9994
DL = 0.002976 ppb
BEC = 0.03477 ppb

Weight: <None>
Min Conc: <None>

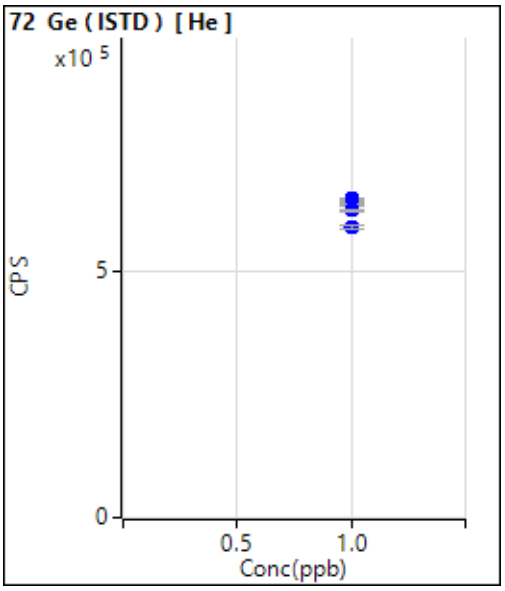



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 622487.59 | | P | 0.3 | |
| 2 | ☐ | 1.000 | | 612855.95 | | P | 0.2 | |
| 3 | ☐ | 1.000 | | 605808.88 | | P | 0.7 | |
| 4 | ☐ | 1.000 | | 595362.47 | | P | 0.5 | |
| 5 | ☐ | 1.000 | | 559757.28 | | P | 0.2 | |
| 6 | ☐ | 1.000 | | 518985.75 | | A | 0.3 | |

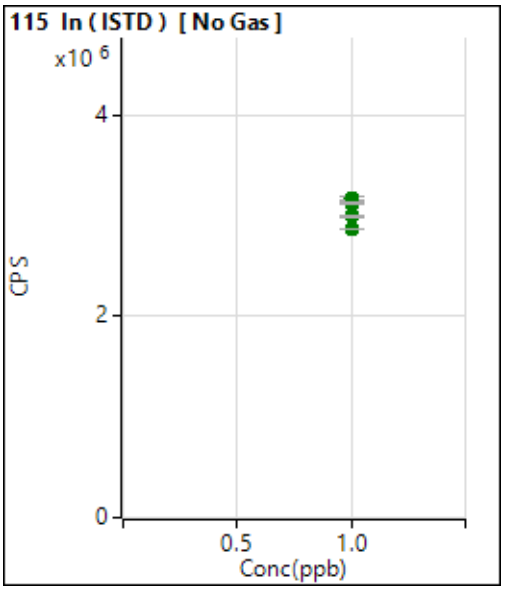



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 2248670.91 | | A | 0.2 | |
| 2 | ☐ | 1.000 | | 2255952.10 | | A | 0.2 | |
| 3 | ☐ | 1.000 | | 2240673.19 | | A | 0.2 | |
| 4 | ☐ | 1.000 | | 2194396.42 | | A | 0.5 | |
| 5 | ☐ | 1.000 | | 2126602.26 | | A | 0.6 | |
| 6 | ☐ | 1.000 | | 2037717.00 | | A | 0.3 | |

Calibration for 017_ICV.d

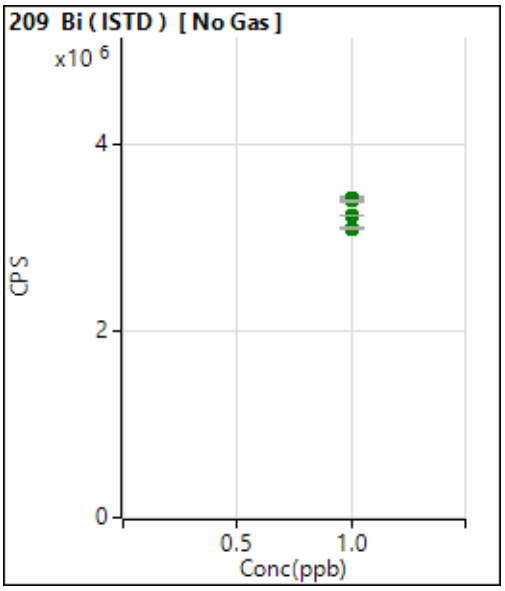



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 646115.07 | | P | 1.1 | |
| 2 | ☐ | 1.000 | | 648675.79 | | P | 0.1 | |
| 3 | ☐ | 1.000 | | 643207.97 | | P | 0.4 | |
| 4 | ☐ | 1.000 | | 635715.52 | | P | 0.9 | |
| 5 | ☐ | 1.000 | | 623543.40 | | P | 0.5 | |
| 6 | ☐ | 1.000 | | 590364.78 | | P | 0.9 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3171445.01 | | A | 0.7 | |
| 2 | ☐ | 1.000 | | 3165678.94 | | A | 1.2 | |
| 3 | ☐ | 1.000 | | 3148763.18 | | A | 0.5 | |
| 4 | ☐ | 1.000 | | 3118576.33 | | A | 0.4 | |
| 5 | ☐ | 1.000 | | 2990124.82 | | A | 0.4 | |
| 6 | ☐ | 1.000 | | 2865334.03 | | A | 0.0 | |

Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3428605.26 | | A | 0.8 | |
| 2 | ☐ | 1.000 | | 3425806.30 | | A | 0.2 | |
| 3 | ☐ | 1.000 | | 3405878.70 | | A | 0.8 | |
| 4 | ☐ | 1.000 | | 3399979.33 | | A | 0.4 | |
| 5 | ☐ | 1.000 | | 3243888.18 | | A | 0.5 | |
| 6 | ☐ | 1.000 | | 3104986.00 | | A | 0.6 | |

# Calibration Blank Report

**Sample Table**

| | |
|---|---|
| Sample Name | CAL BLK |
| Data File Name | 010CALB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T10:13:08-05:00 |
| Sample Type | CalBlk |
| Level | 1 |
| Dilution | 1 |
| Comment | |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 36346 | 0.00 |
| Be | 9 | 1 | No Gas | 77 | 32.21 |
| V | 51 | 2 | He | 2946 | 0.07 |
| Cr | 52 | 2 | He | 5298 | 0.14 |
| Fe | 56 | 2 | He | 24465 | 0.00 |
| Se | 78 | 2 | He | 105 | 8.89 |
| As | 75 | 2 | He | 247 | 3.59 |
| Ca | 44 | 2 | He | 693 | 1.67 |
| Na | 23 | 2 | He | 98351 | 0.00 |
| Mg | 24 | 2 | He | 3621 | 0.18 |
| K | 39 | 2 | He | 64720 | 0.00 |
| Mn | 55 | 2 | He | 943 | 1.85 |
| Co | 59 | 2 | He | 357 | 5.69 |
| Ni | 60 | 2 | He | 440 | 1.03 |
| Cu | 63 | 2 | He | 1383 | 0.94 |
| Zn | 66 | 2 | He | 1207 | 1.67 |
| Al | 27 | 2 | He | 957 | 0.71 |
| B | 11 | 1 | No Gas | 7524 | 0.01 |
| Al | 27 | 1 | No Gas | 31549 | 0.01 |
| Si | 28 | 1 | No Gas | 192643 | 0.00 |
| Ag | 107 | 1 | No Gas | 1240 | 0.23 |
| Cd | 111 | 1 | No Gas | 110 | 16.68 |
| Sr | 88 | 1 | No Gas | 2777 | 0.40 |
| Mo | 95 | 1 | No Gas | 290 | 4.76 |
| Sn | 118 | 1 | No Gas | 3791 | 0.22 |
| Sb | 121 | 1 | No Gas | 997 | 1.21 |
| Ba | 137 | 1 | No Gas | 810 | 1.99 |
| Tl | 205 | 1 | No Gas | 2064 | 0.13 |
| Tl | 203 | 1 | No Gas | 867 | 0.89 |
| Pb | 208 | 1 | No Gas | 4404 | 0.15 |
| U | 238 | 1 | No Gas | 2500 | 0.09 |
| Ca | 43 | 2 | He | 17 | 749.40 |
| Sb | 121 | 2 | He | 450 | 2.75 |
| Ti | 47 | 2 | He | 7 | 1299.04 |
| Cu | 63 | 1 | No Gas | 3400 | 0.18 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|

# Calibration Blank Report

| | | | | | |
|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 622488 | 0.34 |
| Ge | 72 | 2 | He | 646115 | 1.07 |
| Ge | 72 | 1 | No Gas | 2248671 | 0.19 |
| In | 115 | 1 | No Gas | 3171445 | 0.75 |

# Calibration Blank Report

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 3428605 | 0.75 |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 2/10/200 |
| Data File Name | 011CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T10:15:51-05:00 |
| Sample Type | CalStd |
| Level | 2 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 4316 | 0.05 |
| V | 51 | 2 | He | 11955 | 0.04 |
| Cr | 52 | 2 | He | 16009 | 0.02 |
| Fe | 56 | 2 | He | 1031371 | 0.00 |
| Se | 78 | 2 | He | 257 | 1.94 |
| As | 75 | 2 | He | 1841 | 0.31 |
| Ca | 44 | 2 | He | 6595 | 0.07 |
| Na | 23 | 2 | He | 236664 | 0.00 |
| Mg | 24 | 2 | He | 91915 | 0.00 |
| K | 39 | 2 | He | 177344 | 0.00 |
| Mn | 55 | 2 | He | 9327 | 0.06 |
| Co | 59 | 2 | He | 16467 | 0.03 |
| Ni | 60 | 2 | He | 4808 | 0.11 |
| Cu | 63 | 2 | He | 13277 | 0.01 |
| Zn | 66 | 2 | He | 3194 | 0.10 |
| Al | 27 | 2 | He | 1413 | 0.43 |
| B | 11 | 1 | No Gas | 18489 | 0.02 |
| Al | 27 | 1 | No Gas | 55533 | 0.00 |
| Si | 28 | 1 | No Gas | 247498 | 0.00 |
| Ag | 107 | 1 | No Gas | 38502 | 0.01 |
| Cd | 111 | 1 | No Gas | 7242 | 0.01 |
| Sr | 88 | 1 | No Gas | 70711 | 0.00 |
| Mo | 95 | 1 | No Gas | 13564 | 0.03 |
| Sn | 118 | 1 | No Gas | 28391 | 0.01 |
| Sb | 121 | 1 | No Gas | 33152 | 0.01 |
| Ba | 137 | 1 | No Gas | 13714 | 0.01 |
| Tl | 205 | 1 | No Gas | 88268 | 0.00 |
| Tl | 203 | 1 | No Gas | 37850 | 0.01 |
| Pb | 208 | 1 | No Gas | 130015 | 0.00 |
| U | 238 | 1 | No Gas | 134175 | 0.00 |
| Ca | 43 | 2 | He | 427 | 0.84 |
| Sb | 121 | 2 | He | 14565 | 0.03 |
| Cu | 63 | 1 | No Gas | 27588 | 0.01 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 612856 | 0.17 | 622488 | 98.45 | 70 | 120 | |
| Ge | 72 | 2 | He | 648676 | 0.12 | 646115 | 100.40 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2255952 | 0.24 | 2248671 | 100.32 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3165679 | 1.23 | 3171445 | 99.82 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3425806 | 0.16 | 3428605 | 99.92 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 5/25/500 |
| Data File Name | 012CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T10:18:32-05:00 |
| Sample Type | CalStd |
| Level | 3 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 11013 | 0.01 |
| V | 51 | 2 | He | 25138 | 0.01 |
| Cr | 52 | 2 | He | 31593 | 0.01 |
| Fe | 56 | 2 | He | 2587930 | 0.00 |
| Se | 78 | 2 | He | 465 | 0.11 |
| As | 75 | 2 | He | 4341 | 0.06 |
| Ca | 44 | 2 | He | 15682 | 0.02 |
| Na | 23 | 2 | He | 445009 | 0.00 |
| Mg | 24 | 2 | He | 220546 | 0.00 |
| K | 39 | 2 | He | 344104 | 0.00 |
| Mn | 55 | 2 | He | 22151 | 0.02 |
| Co | 59 | 2 | He | 41670 | 0.01 |
| Ni | 60 | 2 | He | 11402 | 0.03 |
| Cu | 63 | 2 | He | 29953 | 0.02 |
| Zn | 66 | 2 | He | 6548 | 0.05 |
| Al | 27 | 2 | He | 2340 | 0.34 |
| B | 11 | 1 | No Gas | 35457 | 0.00 |
| Al | 27 | 1 | No Gas | 87340 | 0.00 |
| Si | 28 | 1 | No Gas | 333822 | 0.00 |
| Ag | 107 | 1 | No Gas | 93039 | 0.00 |
| Cd | 111 | 1 | No Gas | 18307 | 0.01 |
| Sr | 88 | 1 | No Gas | 173740 | 0.00 |
| Mo | 95 | 1 | No Gas | 33305 | 0.01 |
| Sn | 118 | 1 | No Gas | 64680 | 0.00 |
| Sb | 121 | 1 | No Gas | 81842 | 0.00 |
| Ba | 137 | 1 | No Gas | 33867 | 0.01 |
| Tl | 205 | 1 | No Gas | 214775 | 0.00 |
| Tl | 203 | 1 | No Gas | 91282 | 0.00 |
| Pb | 208 | 1 | No Gas | 317757 | 0.00 |
| U | 238 | 1 | No Gas | 332486 | 0.00 |
| Ca | 43 | 2 | He | 873 | 1.22 |
| Sb | 121 | 2 | He | 35725 | 0.01 |
| Cu | 63 | 1 | No Gas | 63506 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 605809 | 0.68 | 622488 | 97.32 | 70 | 120 | |
| Ge | 72 | 2 | He | 643208 | 0.38 | 646115 | 99.55 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2240673 | 0.20 | 2248671 | 99.64 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3148763 | 0.47 | 3171445 | 99.28 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3405879 | 0.80 | 3428605 | 99.34 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 10/50/100 |
| Data File Name | 013CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T10:21:13-05:00 |
| Sample Type | CalStd |
| Level | 4 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 21790 | 0.01 |
| V | 51 | 2 | He | 48200 | 0.01 |
| Cr | 52 | 2 | He | 57308 | 0.00 |
| Fe | 56 | 2 | He | 5145652 | 0.00 |
| Se | 78 | 2 | He | 931 | 0.25 |
| As | 75 | 2 | He | 8359 | 0.04 |
| Ca | 44 | 2 | He | 30841 | 0.01 |
| Na | 23 | 2 | He | 808276 | 0.00 |
| Mg | 24 | 2 | He | 444534 | 0.00 |
| K | 39 | 2 | He | 623356 | 0.00 |
| Mn | 55 | 2 | He | 42660 | 0.01 |
| Co | 59 | 2 | He | 82083 | 0.00 |
| Ni | 60 | 2 | He | 21644 | 0.02 |
| Cu | 63 | 2 | He | 58588 | 0.00 |
| Zn | 66 | 2 | He | 11482 | 0.06 |
| Al | 27 | 2 | He | 3541 | 0.02 |
| B | 11 | 1 | No Gas | 64767 | 0.00 |
| Al | 27 | 1 | No Gas | 146139 | 0.00 |
| Si | 28 | 1 | No Gas | 481709 | 0.00 |
| Ag | 107 | 1 | No Gas | 187553 | 0.00 |
| Cd | 111 | 1 | No Gas | 36234 | 0.01 |
| Sr | 88 | 1 | No Gas | 351250 | 0.00 |
| Mo | 95 | 1 | No Gas | 67124 | 0.01 |
| Sn | 118 | 1 | No Gas | 127000 | 0.00 |
| Sb | 121 | 1 | No Gas | 163015 | 0.00 |
| Ba | 137 | 1 | No Gas | 65825 | 0.00 |
| Tl | 205 | 1 | No Gas | 413146 | 0.00 |
| Tl | 203 | 1 | No Gas | 175035 | 0.00 |
| Pb | 208 | 1 | No Gas | 637771 | 0.00 |
| U | 238 | 1 | No Gas | 671843 | 0.00 |
| Ca | 43 | 2 | He | 1830 | 0.38 |
| Sb | 121 | 2 | He | 73124 | 0.00 |
| Cu | 63 | 1 | No Gas | 122720 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 595362 | 0.47 | 622488 | 95.64 | 70 | 120 | |
| Ge | 72 | 2 | He | 635716 | 0.87 | 646115 | 98.39 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2194396 | 0.46 | 2248671 | 97.59 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3118576 | 0.38 | 3171445 | 98.33 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3399979 | 0.37 | 3428605 | 99.17 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 100/500/10K |
| Data File Name | 014CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T10:23:53-05:00 |
| Sample Type | CalStd |
| Level | 5 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 199782 | 0.00 |
| V | 51 | 2 | He | 396216 | 0.00 |
| Cr | 52 | 2 | He | 448256 | 0.00 |
| Fe | 56 | 2 | He | 43610473 | 0.00 |
| Se | 78 | 2 | He | 7019 | 0.06 |
| As | 75 | 2 | He | 71323 | 0.00 |
| Ca | 44 | 2 | He | 260545 | 0.00 |
| Na | 23 | 2 | He | 6242287 | 0.00 |
| Mg | 24 | 2 | He | 3760801 | 0.00 |
| K | 39 | 2 | He | 4938583 | 0.00 |
| Mn | 55 | 2 | He | 363694 | 0.00 |
| Co | 59 | 2 | He | 702455 | 0.00 |
| Ni | 60 | 2 | He | 182003 | 0.00 |
| Cu | 63 | 2 | He | 485025 | 0.00 |
| Zn | 66 | 2 | He | 91883 | 0.00 |
| Al | 27 | 2 | He | 25553 | 0.01 |
| B | 11 | 1 | No Gas | 544452 | 0.00 |
| Al | 27 | 1 | No Gas | 1066858 | 0.00 |
| Si | 28 | 1 | No Gas | 2842290 | 0.00 |
| Ag | 107 | 1 | No Gas | 1697216 | 0.00 |
| Cd | 111 | 1 | No Gas | 335790 | 0.00 |
| Sr | 88 | 1 | No Gas | 3198231 | 0.00 |
| Mo | 95 | 1 | No Gas | 629842 | 0.00 |
| Sn | 118 | 1 | No Gas | 1139861 | 0.00 |
| Sb | 121 | 1 | No Gas | 1508212 | 0.00 |
| Ba | 137 | 1 | No Gas | 601570 | 0.00 |
| Tl | 205 | 1 | No Gas | 3875105 | 0.00 |
| Tl | 203 | 1 | No Gas | 1650438 | 0.00 |
| Pb | 208 | 1 | No Gas | 5824241 | 0.00 |
| U | 238 | 1 | No Gas | 6405809 | 0.00 |
| Ca | 43 | 2 | He | 15075 | 0.01 |
| Sb | 121 | 2 | He | 634880 | 0.00 |
| Cu | 63 | 1 | No Gas | 1078743 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 559757 | 0.16 | 622488 | 89.92 | 70 | 120 | |
| Ge | 72 | 2 | He | 623543 | 0.47 | 646115 | 96.51 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2126602 | 0.63 | 2248671 | 94.57 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 2990125 | 0.44 | 3171445 | 94.28 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3243888 | 0.53 | 3428605 | 94.61 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 200/1000/20K |
| Data File Name | 015CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T10:27:02-05:00 |
| Sample Type | CalStd |
| Level | 6 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 398985 | 0.00 |
| V | 51 | 2 | He | 885208 | 0.00 |
| Cr | 52 | 2 | He | 993776 | 0.00 |
| Fe | 56 | 2 | He | 97997489 | 0.00 |
| Se | 78 | 2 | He | 15435 | 0.02 |
| As | 75 | 2 | He | 159479 | 0.00 |
| Ca | 44 | 2 | He | 577052 | 0.00 |
| Na | 23 | 2 | He | 13724795 | 0.00 |
| Mg | 24 | 2 | He | 8362118 | 0.00 |
| K | 39 | 2 | He | 10709749 | 0.00 |
| Mn | 55 | 2 | He | 804279 | 0.00 |
| Co | 59 | 2 | He | 1588903 | 0.00 |
| Ni | 60 | 2 | He | 398129 | 0.00 |
| Cu | 63 | 2 | He | 1065071 | 0.00 |
| Zn | 66 | 2 | He | 201545 | 0.00 |
| Al | 27 | 2 | He | 57016 | 0.00 |
| B | 11 | 1 | No Gas | 1097397 | 0.00 |
| Al | 27 | 1 | No Gas | 2119460 | 0.00 |
| Si | 28 | 1 | No Gas | 5536701 | 0.00 |
| Ag | 107 | 1 | No Gas | 3427843 | 0.00 |
| Cd | 111 | 1 | No Gas | 669657 | 0.00 |
| Sr | 88 | 1 | No Gas | 6478698 | 0.00 |
| Mo | 95 | 1 | No Gas | 1296346 | 0.00 |
| Sn | 118 | 1 | No Gas | 2329240 | 0.00 |
| Sb | 121 | 1 | No Gas | 3073545 | 0.00 |
| Ba | 137 | 1 | No Gas | 1237724 | 0.00 |
| Tl | 205 | 1 | No Gas | 7396313 | 0.00 |
| Tl | 203 | 1 | No Gas | 3143448 | 0.00 |
| Pb | 208 | 1 | No Gas | 11840380 | 0.00 |
| U | 238 | 1 | No Gas | 13225566 | 0.00 |
| Ca | 43 | 2 | He | 33470 | 0.01 |
| Sb | 121 | 2 | He | 1446760 | 0.00 |
| Cu | 63 | 1 | No Gas | 2173799 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 518986 | 0.34 | 622488 | 83.37 | 70 | 120 | |
| Ge | 72 | 2 | He | 590365 | 0.93 | 646115 | 91.37 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2037717 | 0.28 | 2248671 | 90.62 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 2865334 | 0.03 | 3171445 | 90.35 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3104986 | 0.62 | 3428605 | 90.56 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 100/500/10K |
| Data File Name | 020CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T10:40:29-05:00 |
| Sample Type | CalStd |
| Level | 5 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 209367 | 0.00 |
| V | 51 | 2 | He | 451699 | 0.00 |
| Cr | 52 | 2 | He | 514177 | 0.00 |
| Fe | 56 | 2 | He | 50175644 | 0.00 |
| Se | 78 | 2 | He | 7826 | 0.03 |
| As | 75 | 2 | He | 81242 | 0.00 |
| Ca | 44 | 2 | He | 294787 | 0.00 |
| Na | 23 | 2 | He | 7020856 | 0.00 |
| Mg | 24 | 2 | He | 4296269 | 0.00 |
| K | 39 | 2 | He | 5510034 | 0.00 |
| Mn | 55 | 2 | He | 411014 | 0.00 |
| Co | 59 | 2 | He | 804287 | 0.00 |
| Ni | 60 | 2 | He | 206685 | 0.00 |
| Cu | 63 | 2 | He | 552045 | 0.00 |
| Zn | 66 | 2 | He | 106300 | 0.00 |
| Al | 27 | 2 | He | 29344 | 0.00 |
| B | 11 | 1 | No Gas | 561607 | 0.00 |
| Al | 27 | 1 | No Gas | 1115176 | 0.00 |
| Si | 28 | 1 | No Gas | 2952328 | 0.00 |
| Ag | 107 | 1 | No Gas | 1756136 | 0.00 |
| Cd | 111 | 1 | No Gas | 348485 | 0.00 |
| Sr | 88 | 1 | No Gas | 3338637 | 0.00 |
| Mo | 95 | 1 | No Gas | 649369 | 0.00 |
| Sn | 118 | 1 | No Gas | 1194750 | 0.00 |
| Sb | 121 | 1 | No Gas | 1569858 | 0.00 |
| Ba | 137 | 1 | No Gas | 621303 | 0.00 |
| Tl | 205 | 1 | No Gas | 3862006 | 0.00 |
| Tl | 203 | 1 | No Gas | 1646690 | 0.00 |
| Pb | 208 | 1 | No Gas | 6080667 | 0.00 |
| U | 238 | 1 | No Gas | 6706853 | 0.00 |
| Ca | 43 | 2 | He | 16914 | 0.01 |
| Sb | 121 | 2 | He | 714969 | 0.00 |
| Cu | 63 | 1 | No Gas | 1129188 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 563585 | 0.56 | 622488 | 90.54 | 70 | 120 | |
| Ge | 72 | 2 | He | 620635 | 1.06 | 646115 | 96.06 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2135107 | 0.45 | 2248671 | 94.95 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3005400 | 0.53 | 3171445 | 94.76 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3278648 | 0.64 | 3428605 | 95.63 | 70 | 120 | |

# Initial Calibration Verification (ICV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICV |
| Data File Name | 022_ICV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T10:48:12-05:00 |
| Sample Type | ICV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Exp Value | %Rec | %Low | %High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 100.478 | 2.742 | 828647 | 3.00 | 100 | 100.5 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 101.623 | 2.597 | 213530 | 2.94 | 100 | 101.6 | 90 | 110 | |
| V | 51 | 2 | He | 100.520 | 0.562 | 469795 | 1.01 | 100 | 100.5 | 90 | 110 | |
| Cr | 52 | 2 | He | 101.532 | 1.295 | 534949 | 1.73 | 100 | 101.5 | 90 | 110 | |
| Fe | 56 | 2 | He | 9941.715 | 1.739 | 51362056 | 2.11 | 10000 | 99.4 | 90 | 110 | |
| Se | 78 | 2 | He | 99.347 | 2.710 | 8108 | 3.06 | 100 | 99.3 | 90 | 110 | |
| As | 75 | 2 | He | 100.032 | 1.923 | 84096 | 2.30 | 100 | 100.0 | 90 | 110 | |
| Ca | 44 | 2 | He | 9898.566 | 0.867 | 301197 | 1.07 | 10000 | 99.0 | 90 | 110 | |
| Na | 23 | 2 | He | 10150.891 | 0.870 | 7182813 | 1.23 | 10000 | 101.5 | 90 | 110 | |
| Mg | 24 | 2 | He | 9973.125 | 0.676 | 4400115 | 1.06 | 10000 | 99.7 | 90 | 110 | |
| K | 39 | 2 | He | 9968.611 | 1.299 | 5657814 | 1.59 | 10000 | 99.7 | 90 | 110 | |
| Mn | 55 | 2 | He | 100.981 | 1.509 | 428258 | 1.85 | 100 | 101.0 | 90 | 110 | |
| Co | 59 | 2 | He | 98.949 | 1.713 | 826973 | 2.01 | 100 | 98.9 | 90 | 110 | |
| Ni | 60 | 2 | He | 101.168 | 2.549 | 213071 | 2.73 | 100 | 101.2 | 90 | 110 | |
| Cu | 63 | 2 | He | 101.736 | 2.148 | 573089 | 2.46 | 100 | 101.7 | 90 | 110 | |
| Zn | 66 | 2 | He | 101.331 | 2.558 | 108735 | 2.89 | 100 | 101.3 | 90 | 110 | |
| Al | 27 | 2 | He | 102.826 | 1.980 | 31278 | 1.28 | 100 | 102.8 | 90 | 110 | |
| B | 11 | 1 | No Gas | 472.702 | 0.936 | 561813 | 1.36 | 500 | 94.5 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 101.849 | 1.926 | 1146837 | 2.24 | 100 | 101.8 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 497.736 | 2.063 | 2980008 | 2.32 | 500 | 99.5 | 90 | 110 | |
| Ag | 107 | 1 | No Gas | 99.499 | 1.842 | 1789984 | 2.25 | 100 | 99.5 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 99.895 | 2.500 | 352093 | 2.58 | 100 | 99.9 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 98.865 | 1.496 | 3365492 | 1.89 | 100 | 98.9 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 97.450 | 1.508 | 659958 | 1.93 | 100 | 97.5 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 99.159 | 1.677 | 1213494 | 2.10 | 100 | 99.2 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 99.818 | 1.935 | 1604083 | 2.31 | 100 | 99.8 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 97.999 | 1.358 | 634167 | 1.78 | 100 | 98.0 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 105.113 | 2.557 | 4133564 | 2.73 | 100 | 105.1 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 105.305 | 2.080 | 1761049 | 2.25 | 100 | 105.3 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 98.770 | 2.093 | 6197449 | 2.27 | 100 | 98.8 | 90 | 110 | |
| U | 238 | 1 | No Gas | 99.032 | 1.914 | 6921879 | 2.08 | 100 | 99.0 | 90 | 110 | |
| Ca | 43 | 2 | He | 10110.845 | 2.924 | 17798 | 2.72 | 10000 | 101.1 | 90 | 110 | |
| Sb | 121 | 2 | He | 98.218 | 1.037 | 743993 | 1.52 | 100 | 98.2 | 90 | 110 | |
| Ti | 47 | 2 | He | 99.736 | 3.025 | 17464 | 2.56 | 100 | 99.7 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 100.977 | 2.045 | 1152653 | 2.44 | 100 | 101.0 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 101.060 | 1.471 | 20125 | 1.75 | 100 | 101.1 | 90 | 110 | |
| Zr | 90 | 1 | No Gas | 89.182 | 1.395 | 1887274 | 1.71 | 100 | 89.2 | 90 | 110 | ICV Main CR1 Failed |
| Zr | 90 | 2 | He | 88.759 | 1.542 | 773577 | 1.96 | 100 | 88.8 | 90 | 1100 | ICV Main CR1 Failed |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 565713 | 0.62 | 622488 | 90.88 | 70 | 120 | |
| Ge | 72 | 2 | He | 625643 | 0.67 | 646115 | 96.83 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2141076 | 0.54 | 2248671 | 95.22 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3020587 | 0.42 | 3171445 | 95.24 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3308146 | 0.18 | 3428605 | 96.49 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LLICV2 |
| Data File Name | 024LCV2.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T10:53:00-05:00 |
| Sample Type | LLCCV2 |
| Dilution | 1 |
| Comment | |
| ISTD Ref FileName | 010CALB.d |
| Sample QC Pass/Fail | Pass |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 1.968 | 1.968 | 2.93 | 51575 | 0.00 | 2 | |
| Be | 9 | 1 | No Gas | 1.968 | 1.968 | 1.12 | 4459 | 0.04 | 2 | |
| V | 51 | 2 | He | 1.873 | 1.873 | 2.94 | 11818 | 0.02 | 2 | |
| Cr | 52 | 2 | He | 1.931 | 1.931 | 1.70 | 15552 | 0.01 | 2 | |
| Fe | 56 | 2 | He | 195.946 | 195.946 | 2.48 | 1059171 | 0.02 | 200 | |
| Se | 78 | 2 | He | 1.660 | 1.660 | 29.09 | 241 | 0.69 | 2 | |
| As | 75 | 2 | He | 1.966 | 1.966 | 2.54 | 1930 | 0.10 | 2 | |
| Ca | 44 | 2 | He | 192.865 | 192.865 | 1.45 | 6675 | 2.89 | 200 | |
| Na | 23 | 2 | He | 176.894 | 176.894 | 1.71 | 223733 | 0.08 | 200 | |
| Mg | 24 | 2 | He | 198.571 | 198.571 | 3.93 | 93127 | 0.21 | 200 | |
| K | 39 | 2 | He | 198.516 | 198.516 | 3.95 | 178073 | 0.11 | 200 | |
| Mn | 55 | 2 | He | 1.895 | 1.895 | 2.56 | 9136 | 0.02 | 2 | |
| Co | 59 | 2 | He | 1.943 | 1.943 | 3.01 | 16957 | 0.01 | 2 | |
| Ni | 60 | 2 | He | 2.054 | 2.054 | 2.69 | 4851 | 0.04 | 2 | |
| Cu | 63 | 2 | He | 2.008 | 2.008 | 2.90 | 12913 | 0.02 | 2 | |
| Zn | 66 | 2 | He | 1.946 | 1.946 | 5.55 | 3307 | 0.06 | 2 | |
| Al | 27 | 2 | He | 2.129 | 2.129 | 20.01 | 1590 | 0.13 | 2 | |
| B | 11 | 1 | No Gas | 10.214 | 10.214 | 2.61 | 19974 | 0.05 | 10 | |
| Al | 27 | 1 | No Gas | 2.106 | 2.106 | 1.88 | 54760 | 0.00 | 2 | |
| Si | 28 | 1 | No Gas | 7.415 | 7.415 | 1.92 | 231977 | 0.00 | 10 | |
| Ag | 107 | 1 | No Gas | 1.980 | 1.980 | 2.58 | 38509 | 0.01 | 2 | |
| Cd | 111 | 1 | No Gas | 1.930 | 1.930 | 2.53 | 7229 | 0.03 | 2 | |
| Sr | 88 | 1 | No Gas | 1.920 | 1.920 | 0.51 | 71140 | 0.00 | 2 | |
| Mo | 95 | 1 | No Gas | 1.914 | 1.914 | 2.50 | 13857 | 0.01 | 2 | |
| Sn | 118 | 1 | No Gas | 1.948 | 1.948 | 3.50 | 28661 | 0.01 | 2 | |
| Sb | 121 | 1 | No Gas | 1.999 | 1.999 | 1.97 | 34064 | 0.01 | 2 | |
| Ba | 137 | 1 | No Gas | 1.942 | 1.942 | 0.82 | 13948 | 0.01 | 2 | |
| Tl | 205 | 1 | No Gas | 2.169 | 2.169 | 1.13 | 90483 | 0.00 | 2 | |
| Tl | 203 | 1 | No Gas | 2.183 | 2.183 | 2.07 | 38716 | 0.01 | 2 | |
| Pb | 208 | 1 | No Gas | 1.977 | 1.977 | 1.31 | 132983 | 0.00 | 2 | |
| U | 238 | 1 | No Gas | 1.860 | 1.860 | 1.31 | 137249 | 0.00 | 2 | |
| Ca | 43 | 2 | He | 229.780 | 229.780 | 5.98 | 430 | 53.44 | 200 | |
| Sb | 121 | 2 | He | 1.912 | 1.912 | 2.88 | 15252 | 0.01 | 2 | |
| Ti | 47 | 2 | He | 2.180 | 2.180 | 28.42 | 397 | 0.55 | 200 | |
| Cu | 63 | 1 | No Gas | 2.076 | 2.076 | 1.98 | 27692 | 0.01 | 2 | |
| Se | 82 | 1 | No Gas | 1.885 | 1.885 | 36.75 | 647 | 0.29 | 2 | |
| Zr | 90 | 1 | No Gas | 1.675 | 1.675 | 1.61 | 38656 | 0.00 | 2 | |
| Zr | 90 | 2 | He | 1.705 | 1.705 | 2.72 | 16444 | 0.01 | 2 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 600120 | 0.30 | 622488 | 96.41 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ge | 72 | 2 | He | 639897 | 0.40 | 646115 | 99.04 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2206639 | 0.27 | 2248671 | 98.13 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3162777 | 0.21 | 3171445 | 99.73 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3430775 | 0.35 | 3428605 | 100.06 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LLICV5 |
| Data File Name | 025LCV5.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T10:55:25-05:00 |
| Sample Type | LLCCV5 |
| Dilution | 1 |
| Comment | |
| ISTD Ref FileName | 010CALB.d |
| Sample QC Pass/Fail | Pass |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 4.884 | 4.884 | 0.95 | 75394 | 0.01 | 5 | |
| Be | 9 | 1 | No Gas | 4.871 | 4.871 | 2.65 | 10833 | 0.04 | 5 | |
| V | 51 | 2 | He | 4.844 | 4.844 | 0.88 | 25568 | 0.02 | 5 | |
| Cr | 52 | 2 | He | 5.025 | 5.025 | 0.86 | 31610 | 0.02 | 5 | |
| Fe | 56 | 2 | He | 498.838 | 498.838 | 1.42 | 2621273 | 0.02 | 500 | |
| Se | 78 | 2 | He | 4.829 | 4.829 | 2.00 | 495 | 0.97 | 5 | |
| As | 75 | 2 | He | 4.825 | 4.825 | 0.85 | 4320 | 0.11 | 5 | |
| Ca | 44 | 2 | He | 498.989 | 498.989 | 1.00 | 15953 | 3.13 | 500 | |
| Na | 23 | 2 | He | 482.088 | 482.088 | 1.00 | 435434 | 0.11 | 500 | |
| Mg | 24 | 2 | He | 506.702 | 506.702 | 1.35 | 228781 | 0.22 | 500 | |
| K | 39 | 2 | He | 496.301 | 496.301 | 1.75 | 344090 | 0.14 | 500 | |
| Mn | 55 | 2 | He | 4.973 | 4.973 | 5.08 | 22148 | 0.02 | 5 | |
| Co | 59 | 2 | He | 4.994 | 4.994 | 1.37 | 42416 | 0.01 | 5 | |
| Ni | 60 | 2 | He | 4.914 | 4.914 | 2.72 | 10844 | 0.05 | 5 | |
| Cu | 63 | 2 | He | 4.991 | 4.991 | 1.58 | 29635 | 0.02 | 5 | |
| Zn | 66 | 2 | He | 4.333 | 4.333 | 5.98 | 5815 | 0.07 | 5 | |
| Al | 27 | 2 | He | 4.162 | 4.162 | 9.32 | 2174 | 0.19 | 5 | |
| B | 11 | 1 | No Gas | 23.207 | 23.207 | 1.90 | 35838 | 0.06 | 25 | |
| Al | 27 | 1 | No Gas | 4.712 | 4.712 | 2.39 | 83725 | 0.01 | 5 | |
| Si | 28 | 1 | No Gas | 22.043 | 22.043 | 4.02 | 314853 | 0.01 | 25 | |
| Ag | 107 | 1 | No Gas | 5.040 | 5.040 | 1.24 | 94908 | 0.01 | 5 | |
| Cd | 111 | 1 | No Gas | 5.000 | 5.000 | 4.17 | 18325 | 0.03 | 5 | |
| Sr | 88 | 1 | No Gas | 4.944 | 4.944 | 1.74 | 176613 | 0.00 | 5 | |
| Mo | 95 | 1 | No Gas | 4.782 | 4.782 | 1.98 | 33753 | 0.01 | 5 | |
| Sn | 118 | 1 | No Gas | 4.891 | 4.891 | 3.71 | 65434 | 0.01 | 5 | |
| Sb | 121 | 1 | No Gas | 4.929 | 4.929 | 2.79 | 82083 | 0.01 | 5 | |
| Ba | 137 | 1 | No Gas | 4.816 | 4.816 | 3.05 | 32982 | 0.01 | 5 | |
| Tl | 205 | 1 | No Gas | 5.307 | 5.307 | 2.72 | 218605 | 0.00 | 5 | |
| Tl | 203 | 1 | No Gas | 5.242 | 5.242 | 3.40 | 91823 | 0.01 | 5 | |
| Pb | 208 | 1 | No Gas | 4.869 | 4.869 | 2.06 | 321292 | 0.00 | 5 | |
| U | 238 | 1 | No Gas | 4.651 | 4.651 | 1.31 | 339818 | 0.00 | 5 | |
| Ca | 43 | 2 | He | 582.820 | 582.820 | 7.78 | 1050 | 55.50 | 500 | |
| Sb | 121 | 2 | He | 4.857 | 4.857 | 4.51 | 37503 | 0.01 | 5 | |
| Ti | 47 | 2 | He | 4.947 | 4.947 | 12.39 | 880 | 0.56 | 5 | |
| Cu | 63 | 1 | No Gas | 4.986 | 4.986 | 2.57 | 61474 | 0.01 | 5 | |
| Se | 82 | 1 | No Gas | 5.428 | 5.428 | 12.50 | 1357 | 0.40 | 5 | |
| Zr | 90 | 1 | No Gas | 4.395 | 4.395 | 1.52 | 97641 | 0.00 | 5 | |
| Zr | 90 | 2 | He | 4.493 | 4.493 | 1.31 | 40681 | 0.01 | 5 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 594833 | 0.37 | 622488 | 95.56 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ge | 72 | 2 | He | 630869 | 1.03 | 646115 | 97.64 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2193953 | 0.17 | 2248671 | 97.57 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3123222 | 0.27 | 3171445 | 98.48 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3433849 | 0.77 | 3428605 | 100.15 | 70 | 120 | |

# Initial Calibration Blank (ICB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICB |
| Data File Name | 026_ICB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T10:57:49-05:00 |
| Sample Type | ICB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | -0.085 | -81.7 | 33932 | 1.9 | 0.5 | |
| Be | 9 | 1 | No Gas | -0.011 | -90.1 | 48 | 46.6 | 0.5 | |
| V | 51 | 2 | He | -0.062 | -13.1 | 2617 | 0.9 | 2.5 | |
| Cr | 52 | 2 | He | 0.019 | 315.0 | 5338 | 5.5 | 2.5 | |
| Fe | 56 | 2 | He | 0.707 | 17.2 | 27925 | 2.3 | 100 | |
| Se | 78 | 2 | He | 0.013 | 707.0 | 105 | 7.2 | 1 | |
| As | 75 | 2 | He | -0.049 | -48.9 | 202 | 9.9 | 2.5 | |
| Ca | 44 | 2 | He | 21.109 | 18.6 | 1340 | 9.5 | 100 | |
| Na | 23 | 2 | He | -31.609 | -4.3 | 74714 | 1.1 | 100 | |
| Mg | 24 | 2 | He | -3.151 | -6.3 | 2160 | 4.2 | 100 | |
| K | 39 | 2 | He | -7.387 | -9.1 | 59771 | 1.2 | 100 | |
| Mn | 55 | 2 | He | 0.017 | 221.3 | 1007 | 16.3 | 2.5 | |
| Co | 59 | 2 | He | -0.025 | -9.2 | 137 | 15.2 | 2.5 | |
| Ni | 60 | 2 | He | -0.049 | -18.4 | 330 | 5.2 | 2.5 | |
| Cu | 63 | 2 | He | -0.097 | -21.6 | 810 | 15.5 | 1 | |
| Zn | 66 | 2 | He | 0.136 | 47.7 | 1340 | 5.2 | 2.5 | |
| Al | 27 | 2 | He | 1.350 | 16.9 | 1353 | 5.7 | 5 | |
| B | 11 | 1 | No Gas | 0.937 | 31.2 | 8324 | 4.8 | 0.5 | ICB Main CR1 Failed |
| Al | 27 | 1 | No Gas | 1.711 | 4.5 | 50156 | 2.0 | 5 | |
| Si | 28 | 1 | No Gas | 0.553 | 57.2 | 191719 | 1.2 | 10 | |
| Ag | 107 | 1 | No Gas | -0.039 | -6.9 | 490 | 10.8 | 2.5 | |
| Cd | 111 | 1 | No Gas | -0.035 | -4.8 | -18 | -32.6 | 1 | |
| Sr | 88 | 1 | No Gas | 0.040 | 10.6 | 4127 | 3.5 | 2.5 | |
| Mo | 95 | 1 | No Gas | -0.014 | -49.1 | 190 | 24.1 | 2.5 | |
| Sn | 118 | 1 | No Gas | 0.073 | 24.5 | 4651 | 4.7 | 5 | |
| Sb | 121 | 1 | No Gas | -0.017 | -33.7 | 703 | 13.4 | 2.5 | |
| Ba | 137 | 1 | No Gas | 0.151 | 14.0 | 1803 | 7.8 | 2.5 | |
| Tl | 205 | 1 | No Gas | -0.025 | -8.8 | 1050 | 9.2 | 1 | |
| Tl | 203 | 1 | No Gas | -0.022 | -13.5 | 483 | 11.4 | 1 | |
| Pb | 208 | 1 | No Gas | -0.030 | -5.1 | 2460 | 4.5 | 2.5 | |
| U | 238 | 1 | No Gas | -0.023 | -4.1 | 833 | 8.5 | 2.5 | |
| Ca | 43 | 2 | He | 50.220 | 71.8 | 107 | 60.3 | 100 | |
| Sb | 121 | 2 | He | -0.020 | -26.0 | 290 | 13.8 | 2.5 | |
| Ti | 47 | 2 | He | -0.037 | 0.0 | 0 | #DIV/0! | 2.5 | |
| Se | 82 | 1 | No Gas | 0.095 | 162.9 | 283 | 10.8 | 1 | |
| Zr | 90 | 1 | No Gas | 0.066 | 7.7 | 2984 | 4.3 | 2.5 | |
| Zr | 90 | 2 | He | 0.074 | 14.0 | 1924 | 4.2 | 2.5 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 593237 | 0.51 | 622488 | 95.30 | 70 | 120 | |
| Ge | 72 | 2 | He | 638915 | 0.65 | 646115 | 98.89 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2200640 | 0.40 | 2248671 | 97.86 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3122312 | 0.67 | 3171445 | 98.45 | 70 | 120 | |

# Initial Calibration Blank (ICB) Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 3460705 | 0.52 | 3428605 | 100.94 | 70 | 120 | |

# Interference Check Solution A (ICS-A) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICSA |
| Data File Name | 028ICSA.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T11:04:28-05:00 |
| Sample Type | ICSA |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 0.265 | 8.6 | 35030 | 0.7 | 0 | ICSA Main CR1 Failed |
| Be | 9 | 1 | No Gas | 0.000 | 1563.6 | 70 | 12.4 | 0 | ICSA Main CR1 Failed |
| V | 51 | 2 | He | 0.223 | 7.2 | 3825 | 2.3 | 0 | ICSA Main CR1 Failed |
| Cr | 52 | 2 | He | 0.843 | 7.3 | 9377 | 2.8 | 0 | ICSA Main CR1 Failed |
| Fe | 56 | 2 | He | 103572.934 | 0.9 | 526366072 | 0.5 | 0 | |
| Se | 78 | 2 | He | -0.039 | -493.7 | 97 | 15.6 | 0 | ICSA Main CR1 Failed |
| As | 75 | 2 | He | 0.312 | 18.5 | 492 | 9.9 | 0 | ICSA Main CR1 Failed |
| Ca | 44 | 2 | He | 106707.847 | 1.3 | 3188964 | 1.0 | 0 | |
| Na | 23 | 2 | He | 108573.056 | 1.2 | 74697462 | 0.8 | 0 | |
| Mg | 24 | 2 | He | 105013.309 | 1.4 | 45562466 | 0.9 | 0 | |
| K | 39 | 2 | He | 106248.998 | 1.3 | 58748826 | 0.9 | 0 | |
| Mn | 55 | 2 | He | 1.873 | 1.8 | 8700 | 2.1 | 0 | ICSA Main CR1 Failed |
| Co | 59 | 2 | He | 1.020 | 3.2 | 8730 | 3.5 | 0 | ICSA Main CR1 Failed |
| Ni | 60 | 2 | He | 0.977 | 4.7 | 2440 | 3.9 | 0 | ICSA Main CR1 Failed |
| Cu | 63 | 2 | He | 0.538 | 8.1 | 4294 | 5.6 | 0 | ICSA Main CR1 Failed |
| Zn | 66 | 2 | He | 2.724 | 6.9 | 3994 | 4.3 | 0 | ICSA Main CR1 Failed |
| Al | 27 | 2 | He | 107653.503 | 1.1 | 31276070 | 0.7 | 0 | |
| B | 11 | 1 | No Gas | 1.761 | 10.6 | 8880 | 2.2 | 0 | |
| Al | 27 | 1 | No Gas | 100458.617 | 2.3 | 1076730304 | 1.5 | 0 | |
| Si | 28 | 1 | No Gas | 31.401 | 4.2 | 351810 | 2.6 | 0 | |
| Ag | 107 | 1 | No Gas | -0.020 | -30.0 | 767 | 13.4 | 0 | ICSA Main CR1 Failed |
| Cd | 111 | 1 | No Gas | 0.797 | 9.7 | 2738 | 9.4 | 0 | ICSA Main CR1 Failed |
| Sr | 88 | 1 | No Gas | 0.948 | 2.9 | 32813 | 2.6 | 0 | ICSA Main CR1 Failed |
| Mo | 95 | 1 | No Gas | 2086.636 | 1.6 | 13278493 | 1.5 | 0 | |
| Sn | 118 | 1 | No Gas | 0.235 | 13.1 | 6092 | 5.7 | 0 | ICSA Main CR1 Failed |
| Sb | 121 | 1 | No Gas | 0.053 | 4.3 | 1760 | 1.5 | 0 | ICSA Main CR1 Failed |
| Ba | 137 | 1 | No Gas | 0.445 | 8.5 | 3431 | 6.7 | 0 | ICSA Main CR1 Failed |
| Tl | 205 | 1 | No Gas | -0.023 | -14.0 | 990 | 11.5 | 0 | ICSA Main CR1 Failed |
| Tl | 203 | 1 | No Gas | -0.021 | -12.7 | 433 | 9.6 | 0 | ICSA Main CR1 Failed |
| Pb | 208 | 1 | No Gas | 0.879 | 3.4 | 53845 | 3.0 | 0 | ICSA Main CR1 Failed |
| U | 238 | 1 | No Gas | -0.017 | -7.6 | 1100 | 7.4 | 0 | ICSA Main CR1 Failed |
| Ca | 43 | 2 | He | 103601.235 | 1.5 | 179339 | 1.3 | 0 | |
| Sb | 121 | 2 | He | 0.069 | 11.8 | 947 | 6.8 | 0 | ICSA Main CR1 Failed |
| Ti | 47 | 2 | He | 2124.401 | 1.0 | 366003 | 0.6 | 0 | |
| Se | 82 | 1 | No Gas | 0.234 | 146.3 | 297 | 22.9 | 0 | ICSA Main CR1 Failed |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 564136 | 0.22 | 622488 | 90.63 | 70 | 120 | |
| Ge | 72 | 2 | He | 615735 | 0.60 | 646115 | 95.30 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2093122 | 0.87 | 2248671 | 93.08 | 70 | 120 | |
| In | 115 | 1 | No Gas | 2839568 | 0.10 | 3171445 | 89.54 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3001008 | 0.08 | 3428605 | 87.53 | 70 | 120 | |

# Interference Check Solution AB (ICS-AB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICSAB |
| Data File Name | 029ICSB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T11:06:57-05:00 |
| Sample Type | ICSB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Exp Value | %Rec | %Low | %High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 105.900 | 1.886 | 864777 | 0.95 | 100 | 105.9 | 180 | 120 | ICSB Main CR1 Failed |
| Be | 9 | 1 | No Gas | 97.647 | 2.706 | 203569 | 1.88 | 100 | 97.6 | 80 | 120 | |
| V | 51 | 2 | He | 104.837 | 1.278 | 492510 | 1.28 | 100 | 104.8 | 80 | 120 | |
| Cr | 52 | 2 | He | 103.425 | 1.562 | 547767 | 1.42 | 100 | 103.4 | 80 | 120 | |
| Fe | 56 | 2 | He | 110828.564 | 1.186 | 575426685 | 1.15 | 100 | 110828.6 | 80 | 120 | ICSB Main CR1 Failed |
| Se | 78 | 2 | He | 110.089 | 1.650 | 9022 | 1.63 | 100 | 110.1 | 80 | 120 | |
| As | 75 | 2 | He | 106.611 | 1.049 | 90096 | 1.19 | 100 | 106.6 | 80 | 120 | |
| Ca | 44 | 2 | He | 114027.863 | 1.751 | 3481407 | 1.61 | 100 | 114027.9 | 80 | 120 | ICSB Main CR1 Failed |
| Na | 23 | 2 | He | 116674.833 | 1.570 | 82001767 | 1.44 | 100 | 116674.8 | 80 | 120 | |
| Mg | 24 | 2 | He | 112298.220 | 1.579 | 49777994 | 1.46 | 100 | 112298.2 | 80 | 120 | ICSB Main CR1 Failed |
| K | 39 | 2 | He | 113453.057 | 1.910 | 64085879 | 1.79 | 100 | 113453.1 | 80 | 120 | ICSB Main CR1 Failed |
| Mn | 55 | 2 | He | 104.140 | 2.438 | 444001 | 2.19 | 100 | 104.1 | 80 | 120 | |
| Co | 59 | 2 | He | 99.644 | 1.347 | 837284 | 1.16 | 100 | 99.6 | 80 | 120 | |
| Ni | 60 | 2 | He | 99.101 | 2.265 | 209848 | 1.97 | 100 | 99.1 | 80 | 120 | |
| Cu | 63 | 2 | He | 97.949 | 1.381 | 554789 | 1.37 | 100 | 97.9 | 80 | 120 | |
| Zn | 66 | 2 | He | 102.186 | 2.724 | 110233 | 2.74 | 100 | 102.2 | 80 | 120 | |
| Al | 27 | 2 | He | 103614.244 | 1.594 | 30754173 | 1.48 | 100 | 103614.2 | 80 | 120 | ICSB Main CR1 Failed |
| B | 11 | 1 | No Gas | 502.086 | 1.686 | 591681 | 0.84 | 100 | 502.1 | 80 | 120 | |
| Al | 27 | 1 | No Gas | 98660.571 | 1.532 | 1082854171 | 1.08 | 100 | 98660.6 | 80 | 120 | ICSB Main CR1 Failed |
| Si | 28 | 1 | No Gas | 552.147 | 1.158 | 3288811 | 1.01 | 100 | 552.1 | 80 | 120 | |
| Ag | 107 | 1 | No Gas | 99.837 | 2.179 | 1745920 | 1.52 | 100 | 99.8 | 80 | 120 | |
| Cd | 111 | 1 | No Gas | 102.589 | 1.984 | 351509 | 1.32 | 100 | 102.6 | 80 | 120 | |
| Sr | 88 | 1 | No Gas | 108.016 | 2.038 | 3574183 | 1.40 | 100 | 108.0 | 80 | 120 | |
| Mo | 95 | 1 | No Gas | 2159.991 | 2.421 | 14213961 | 1.76 | 100 | 2160.0 | 80 | 120 | ICSB Main CR1 Failed |
| Sn | 118 | 1 | No Gas | 104.762 | 1.815 | 1246105 | 1.15 | 100 | 104.8 | 80 | 120 | |
| Sb | 121 | 1 | No Gas | 102.902 | 1.334 | 1655134 | 0.98 | 100 | 102.9 | 80 | 120 | |
| Ba | 137 | 1 | No Gas | 102.957 | 1.646 | 647652 | 1.35 | 100 | 103.0 | 80 | 120 | |
| Tl | 205 | 1 | No Gas | 101.149 | 1.559 | 3718172 | 1.41 | 100 | 101.1 | 80 | 120 | |
| Tl | 203 | 1 | No Gas | 101.339 | 1.865 | 1584168 | 1.68 | 100 | 101.3 | 80 | 120 | |
| Pb | 208 | 1 | No Gas | 104.736 | 1.017 | 6142824 | 0.95 | 100 | 104.7 | 80 | 120 | |
| U | 238 | 1 | No Gas | 105.897 | 1.260 | 6918647 | 1.18 | 100 | 105.9 | 80 | 120 | |
| Ca | 43 | 2 | He | 110524.129 | 1.539 | 195458 | 1.26 | 100 | 110524.1 | 80 | 120 | ICSB Main CR1 Failed |
| Sb | 121 | 2 | He | 101.615 | 1.453 | 773870 | 1.40 | 100 | 101.6 | 80 | 120 | |
| Ti | 47 | 2 | He | 2157.622 | 1.412 | 379779 | 1.56 | 100 | 2157.6 | 80 | 120 | ICSB Main CR1 Failed |
| Cu | 63 | 1 | No Gas | 98.128 | 1.448 | 1121232 | 1.05 | 100 | 98.1 | 80 | 120 | |
| Se | 82 | 1 | No Gas | 110.195 | 5.246 | 21941 | 5.04 | 100 | 110.2 | 80 | 120 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 561386 | 0.86 | 622488 | 90.18 | 70 | 120 | |
| Ge | 72 | 2 | He | 629048 | 0.39 | 646115 | 97.36 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2143226 | 0.64 | 2248671 | 95.31 | 70 | 120 | |
| In | 115 | 1 | No Gas | 2936709 | 0.79 | 3171445 | 92.60 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3092411 | 0.34 | 3428605 | 90.19 | 70 | 120 | |

# Continuing Calibration Verification (CCV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCV |
| Data File Name | 034_CCV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T11:25:37-05:00 |
| Sample Type | CCV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Exp Value | %Rec | %Low | %High2 | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 100.572 | 1.112 | 778579 | 1.92 | 100 | 100.6 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 100.989 | 1.066 | 199200 | 1.93 | 100 | 101.0 | 90 | 110 | |
| V | 51 | 2 | He | 101.639 | 1.231 | 464020 | 0.79 | 100 | 101.6 | 90 | 110 | |
| Cr | 52 | 2 | He | 102.164 | 1.173 | 525803 | 0.91 | 100 | 102.2 | 90 | 110 | |
| Fe | 56 | 2 | He | 10121.723 | 1.868 | 51081161 | 1.42 | 10000 | 101.2 | 90 | 110 | |
| Se | 78 | 2 | He | 104.096 | 1.256 | 8294 | 0.84 | 100 | 104.1 | 90 | 110 | |
| As | 75 | 2 | He | 101.233 | 1.226 | 83133 | 0.76 | 100 | 101.2 | 90 | 110 | |
| Ca | 44 | 2 | He | 10113.376 | 1.770 | 300608 | 1.33 | 10000 | 101.1 | 90 | 110 | |
| Na | 23 | 2 | He | 10274.870 | 1.488 | 7101348 | 1.02 | 10000 | 102.7 | 90 | 110 | |
| Mg | 24 | 2 | He | 10090.051 | 1.296 | 4348820 | 0.92 | 10000 | 100.9 | 90 | 110 | |
| K | 39 | 2 | He | 10120.858 | 1.324 | 5610528 | 0.89 | 10000 | 101.2 | 90 | 110 | |
| Mn | 55 | 2 | He | 102.490 | 1.976 | 424590 | 1.57 | 100 | 102.5 | 90 | 110 | |
| Co | 59 | 2 | He | 101.056 | 1.496 | 825051 | 1.06 | 100 | 101.1 | 90 | 110 | |
| Ni | 60 | 2 | He | 102.547 | 1.005 | 210978 | 0.63 | 100 | 102.5 | 90 | 110 | |
| Cu | 63 | 2 | He | 101.855 | 1.612 | 560483 | 1.18 | 100 | 101.9 | 90 | 110 | |
| Zn | 66 | 2 | He | 101.383 | 1.233 | 106272 | 0.94 | 100 | 101.4 | 90 | 110 | |
| Al | 27 | 2 | He | 103.436 | 1.946 | 30734 | 1.47 | 100 | 103.4 | 90 | 110 | |
| B | 11 | 1 | No Gas | 474.948 | 0.444 | 529868 | 1.28 | 500 | 95.0 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 99.796 | 1.901 | 1097676 | 1.92 | 100 | 99.8 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 486.505 | 1.823 | 2847744 | 1.75 | 5000 | 9.7 | 90 | 110 | CCV Main CR1-2 Failed |
| Ag | 107 | 1 | No Gas | 99.344 | 0.428 | 1765404 | 1.87 | 100 | 99.3 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 100.971 | 0.767 | 351551 | 1.80 | 100 | 101.0 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 100.152 | 0.763 | 3367651 | 1.82 | 100 | 100.2 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 97.432 | 0.141 | 651755 | 1.32 | 100 | 97.4 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 100.555 | 0.541 | 1215542 | 1.99 | 100 | 100.6 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 102.752 | 2.199 | 1611997 | 2.00 | 100 | 102.8 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 99.413 | 0.498 | 635468 | 1.91 | 100 | 99.4 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 105.912 | 1.524 | 4134907 | 2.02 | 100 | 105.9 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 106.087 | 1.240 | 1761338 | 1.87 | 100 | 106.1 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 99.944 | 0.957 | 6225673 | 1.44 | 100 | 99.9 | 90 | 110 | |
| U | 238 | 1 | No Gas | 100.429 | 0.682 | 6968732 | 1.31 | 100 | 100.4 | 90 | 110 | |
| Ca | 43 | 2 | He | 10045.306 | 3.476 | 17274 | 3.03 | 10000 | 100.5 | 90 | 110 | |
| Sb | 121 | 2 | He | 101.147 | 1.560 | 748446 | 1.13 | 100 | 101.1 | 90 | 110 | |
| Ti | 47 | 2 | He | 101.481 | 1.628 | 17361 | 1.25 | 100 | 101.5 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 100.393 | 2.817 | 1118813 | 2.79 | 100 | 100.4 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 102.355 | 1.937 | 19898 | 2.39 | 100 | 102.4 | 90 | 110 | |
| Zr | 90 | 1 | No Gas | 88.141 | 0.357 | 1842506 | 1.60 | 100 | 88.1 | 90 | 110 | CCV Main CR1-2 Failed |
| Zr | 90 | 2 | He | 89.467 | 1.749 | 761695 | 1.34 | 100 | 89.5 | 90 | 110 | CCV Main CR1-2 Failed |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 531054 | 0.87 | 622488 | 85.31 | 70 | 120 | |
| Ge | 72 | 2 | He | 611215 | 0.47 | 646115 | 94.60 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2090406 | 0.47 | 2248671 | 92.96 | 70 | 120 | |
| In | 115 | 1 | No Gas | 2983768 | 1.46 | 3171445 | 94.08 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3284207 | 0.63 | 3428605 | 95.79 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCB |
| Data File Name | 035_CCB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T11:28:01-05:00 |
| Sample Type | CCB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 0.059 | 29.6 | 33947 | 0.6 | 0.5 | |
| Be | 9 | 1 | No Gas | 0.016 | 101.9 | 105 | 33.3 | 0.5 | |
| V | 51 | 2 | He | -0.309 | -0.1 | 1419 | 0.6 | 2.5 | |
| Cr | 52 | 2 | He | -0.330 | -0.2 | 3414 | 0.6 | 2.5 | |
| Fe | 56 | 2 | He | -1.540 | -5.1 | 15779 | 2.8 | 100 | |
| Se | 78 | 2 | He | 0.004 | 5337.5 | 103 | 18.1 | 2 | |
| As | 75 | 2 | He | -0.067 | -44.9 | 183 | 14.2 | 2.5 | |
| Ca | 44 | 2 | He | -7.978 | -39.8 | 430 | 22.9 | 100 | |
| Na | 23 | 2 | He | -40.902 | -3.3 | 66828 | 1.9 | 100 | |
| Mg | 24 | 2 | He | -5.046 | -4.6 | 1283 | 8.4 | 100 | |
| K | 39 | 2 | He | 0.530 | 286.4 | 63116 | 1.8 | 100 | |
| Mn | 55 | 2 | He | -0.073 | -21.5 | 607 | 10.5 | 2.5 | |
| Co | 59 | 2 | He | -0.019 | -22.8 | 183 | 20.7 | 2.5 | |
| Ni | 60 | 2 | He | -0.087 | -29.7 | 243 | 22.6 | 2.5 | |
| Cu | 63 | 2 | He | -0.153 | -3.2 | 483 | 5.2 | 2 | |
| Zn | 66 | 2 | He | -0.116 | -78.9 | 1047 | 9.8 | 2.5 | |
| Al | 27 | 2 | He | -0.232 | -60.8 | 860 | 5.3 | 5 | |
| B | 11 | 1 | No Gas | 2.321 | 23.4 | 9690 | 7.0 | 0.5 | CCB Main CR1 Failed |
| Al | 27 | 1 | No Gas | -0.048 | -69.0 | 29899 | 0.9 | 5 | |
| Si | 28 | 1 | No Gas | -1.585 | -7.2 | 176800 | 0.1 | 10 | |
| Ag | 107 | 1 | No Gas | -0.040 | -12.9 | 470 | 20.3 | 2.5 | |
| Cd | 111 | 1 | No Gas | -0.021 | -12.9 | 30 | 33.6 | 1 | |
| Sr | 88 | 1 | No Gas | -0.056 | -4.2 | 773 | 10.8 | 2.5 | |
| Mo | 95 | 1 | No Gas | 0.067 | 34.3 | 750 | 21.0 | 2.5 | |
| Sn | 118 | 1 | No Gas | 0.057 | 34.6 | 4414 | 5.7 | 5 | |
| Sb | 121 | 1 | No Gas | 0.005 | 155.7 | 1040 | 11.3 | 2.5 | |
| Ba | 137 | 1 | No Gas | -0.077 | -4.0 | 280 | 7.1 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.083 | 71.6 | 5358 | 43.9 | 1 | |
| Tl | 203 | 1 | No Gas | 0.089 | 75.5 | 2374 | 47.8 | 1 | |
| Pb | 208 | 1 | No Gas | -0.022 | -3.3 | 2934 | 1.4 | 2.5 | |
| U | 238 | 1 | No Gas | -0.016 | -17.1 | 1290 | 14.9 | 2.5 | |
| Ca | 43 | 2 | He | 9.691 | 34.8 | 33 | 17.3 | 100 | |
| Sb | 121 | 2 | He | 0.003 | 391.3 | 460 | 19.6 | 2.5 | |
| Ti | 47 | 2 | He | 0.020 | 281.0 | 10 | 100.0 | 2.5 | |
| Cu | 63 | 1 | No Gas | -0.185 | -4.2 | 1143 | 7.5 | 2.5 | |
| Se | 82 | 1 | No Gas | 0.132 | 194.1 | 287 | 17.6 | 2 | |
| Zr | 90 | 1 | No Gas | 0.065 | 34.5 | 2930 | 16.1 | 2.5 | |
| Zr | 90 | 2 | He | 0.050 | 5.9 | 1683 | 1.2 | 2.5 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 573211 | 0.33 | 622488 | 92.08 | 70 | 120 | |
| Ge | 72 | 2 | He | 627046 | 0.49 | 646115 | 97.05 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2169113 | 0.49 | 2248671 | 96.46 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3098670 | 0.41 | 3171445 | 97.71 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3373975 | 0.58 | 3428605 | 98.41 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS24061196-10 |
| Data File Name | 036SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T11:32:07-05:00 |
| Sample Type | Sample |
| Dilution | 10 |
| Comment | TW B 214140 |
| ISTD Ref FileName | 010CALB.d |
| Sample QC Pass/Fail | Pass |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 2.101 | 21.006 | 3.67 | 49437 | 0.00 | 2000 | |
| Be | 9 | 1 | No Gas | 0.011 | 0.115 | 64.24 | 93 | 0.01 | 2000 | |
| V | 51 | 2 | He | -0.290 | -2.896 | -9.40 | 1506 | -0.02 | 2000 | |
| Cr | 52 | 2 | He | -0.269 | -2.688 | -21.01 | 3724 | -0.01 | 2000 | |
| Fe | 56 | 2 | He | 3206.469 | 32064.688 | 0.64 | 16562898 | 0.02 | 200000 | |
| Se | 78 | 2 | He | -0.034 | -0.340 | -826.32 | 99 | -0.03 | 2000 | |
| As | 75 | 2 | He | -0.010 | -0.105 | -378.29 | 230 | 0.00 | 2000 | |
| Ca | 44 | 2 | He | 2318.136 | 23181.364 | 1.29 | 70970 | 3.27 | 200000 | |
| Na | 23 | 2 | He | 14402.829 | 144028.293 | 1.08 | 10140634 | 0.14 | 200000 | |
| Mg | 24 | 2 | He | 804.442 | 8044.421 | 1.65 | 357758 | 0.22 | 200000 | |
| K | 39 | 2 | He | 262.256 | 2622.565 | 1.50 | 209648 | 0.13 | 200000 | |
| Mn | 55 | 2 | He | 51.137 | 511.374 | 0.46 | 217079 | 0.02 | 2000 | |
| Co | 59 | 2 | He | 0.110 | 1.098 | 6.83 | 1260 | 0.01 | 2000 | |
| Ni | 60 | 2 | He | 0.083 | 0.832 | 47.01 | 600 | 0.01 | 2000 | |
| Cu | 63 | 2 | He | -0.067 | -0.674 | -21.23 | 960 | -0.01 | 2000 | |
| Zn | 66 | 2 | He | 1.399 | 13.995 | 3.90 | 2650 | 0.05 | 2000 | |
| Al | 27 | 2 | He | 0.352 | 3.517 | 163.42 | 1030 | 0.03 | 2000 | |
| B | 11 | 1 | No Gas | 2.889 | 28.886 | 7.02 | 10182 | 0.03 | 2000 | |
| Al | 27 | 1 | No Gas | 0.686 | 6.857 | 17.00 | 37438 | 0.00 | 2000 | |
| Si | 28 | 1 | No Gas | 1333.560 | 13335.601 | 2.67 | 7650209 | 0.02 | 2000 | |
| Ag | 107 | 1 | No Gas | -0.049 | -0.486 | -1.09 | 310 | -0.02 | 2000 | |
| Cd | 111 | 1 | No Gas | -0.008 | -0.082 | -36.04 | 76 | -0.01 | 2000 | |
| Sr | 88 | 1 | No Gas | 32.240 | 322.401 | 1.37 | 1108813 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.018 | 0.183 | 25.42 | 403 | 0.00 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.057 | 0.570 | 5.40 | 4344 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | -0.010 | -0.097 | -72.62 | 790 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 61.942 | 619.417 | 1.96 | 404606 | 0.02 | 2000 | |
| Tl | 205 | 1 | No Gas | -0.007 | -0.069 | -81.79 | 1750 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | -0.007 | -0.071 | -65.04 | 730 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | -0.008 | -0.080 | -21.12 | 3814 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | -0.019 | -0.189 | -8.60 | 1113 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 2345.522 | 23455.218 | 1.36 | 4137 | 56.69 | 200000 | |
| Sb | 121 | 2 | He | -0.006 | -0.056 | -69.37 | 393 | 0.00 | 2000 | |
| Ti | 47 | 2 | He | 0.173 | 1.732 | 50.75 | 37 | 0.47 | 2000 | |
| Cu | 63 | 1 | No Gas | 0.017 | 0.168 | 12.54 | 3417 | 0.00 | 2000 | |
| Ca | 44 | 1 | No Gas | 2271.861 | 22718.606 | 2.22 | 1009142 | 0.23 | 200000 | |
| Zn | 66 | 1 | No Gas | 1.315 | 13.148 | 14.52 | 6795 | 0.02 | 2000 | |
| Se | 82 | 1 | No Gas | -0.015 | -0.148 | -222.09 | 253 | -0.01 | 2000 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 563109 | 0.31 | 622488 | 90.46 | 70 | 120 | |
| Ge | 72 | 2 | He | 624963 | 0.85 | 646115 | 96.73 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2134083 | 0.47 | 2248671 | 94.90 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3046847 | 0.30 | 3171445 | 96.07 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3366124 | 0.89 | 3428605 | 98.18 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS24061196-10SD |
| Data File Name | 037SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T11:34:32-05:00 |
| Sample Type | Sample |
| Dilution | 50 |
| Comment | TW B 214140 |
| ISTD Ref FileName | 010CALB.d |
| Sample QC Pass/Fail | Pass |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 0.401 | 20.026 | 13.38 | 36679 | 0.00 | 2000 | |
| Be | 9 | 1 | No Gas | 0.004 | 0.222 | 52.34 | 80 | 0.01 | 2000 | |
| V | 51 | 2 | He | -0.305 | -15.227 | -0.79 | 1433 | -0.02 | 2000 | |
| Cr | 52 | 2 | He | -0.321 | -16.052 | -5.38 | 3444 | -0.01 | 2000 | |
| Fe | 56 | 2 | He | 641.015 | 32050.731 | 1.99 | 3323594 | 0.02 | 200000 | |
| Se | 78 | 2 | He | 0.136 | 6.814 | 173.01 | 113 | 0.12 | 2000 | |
| As | 75 | 2 | He | -0.044 | -2.217 | -67.86 | 201 | -0.02 | 2000 | |
| Ca | 44 | 2 | He | 446.331 | 22316.571 | 4.31 | 14178 | 3.15 | 200000 | |
| Na | 23 | 2 | He | 2849.440 | 142471.977 | 2.66 | 2078355 | 0.14 | 200000 | |
| Mg | 24 | 2 | He | 158.163 | 7908.146 | 2.81 | 73005 | 0.22 | 200000 | |
| K | 39 | 2 | He | 52.569 | 2628.438 | 2.22 | 91904 | 0.06 | 200000 | |
| Mn | 55 | 2 | He | 10.211 | 510.530 | 1.40 | 43990 | 0.02 | 2000 | |
| Co | 59 | 2 | He | -0.001 | -0.043 | -943.91 | 337 | 0.00 | 2000 | |
| Ni | 60 | 2 | He | -0.104 | -5.214 | -36.64 | 207 | -0.05 | 2000 | |
| Cu | 63 | 2 | He | -0.151 | -7.546 | -7.74 | 490 | -0.03 | 2000 | |
| Zn | 66 | 2 | He | -0.130 | -6.481 | -32.63 | 1027 | -0.01 | 2000 | |
| Al | 27 | 2 | He | -0.272 | -13.622 | -102.65 | 843 | -0.03 | 2000 | |
| B | 11 | 1 | No Gas | -0.701 | -35.066 | -15.68 | 6093 | -0.01 | 2000 | |
| Al | 27 | 1 | No Gas | -0.287 | -14.342 | -23.00 | 27247 | 0.00 | 2000 | |
| Si | 28 | 1 | No Gas | 263.083 | 13154.162 | 2.17 | 1683298 | 0.02 | 2000 | |
| Ag | 107 | 1 | No Gas | -0.050 | -2.501 | -5.60 | 290 | -0.02 | 2000 | |
| Cd | 111 | 1 | No Gas | -0.022 | -1.115 | -18.74 | 26 | -0.08 | 2000 | |
| Sr | 88 | 1 | No Gas | 6.573 | 328.666 | 2.01 | 232428 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | -0.001 | -0.049 | -1326.94 | 277 | 0.00 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.017 | 0.867 | 19.11 | 3927 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | -0.024 | -1.203 | -6.68 | 570 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 12.359 | 617.971 | 1.46 | 82864 | 0.01 | 2000 | |
| Tl | 205 | 1 | No Gas | -0.023 | -1.135 | -5.20 | 1130 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | -0.021 | -1.057 | -3.98 | 497 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | -0.025 | -1.229 | -7.71 | 2783 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | -0.023 | -1.147 | -4.76 | 833 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 466.175 | 23308.775 | 8.95 | 833 | 55.94 | 200000 | |
| Sb | 121 | 2 | He | -0.022 | -1.090 | -27.36 | 270 | -0.01 | 2000 | |
| Ti | 47 | 2 | He | -0.018 | -0.885 | -186.54 | 3 | -0.53 | 2000 | |
| Cu | 63 | 1 | No Gas | -0.161 | -8.065 | -7.07 | 1420 | -0.01 | 2000 | |
| Ca | 44 | 1 | No Gas | 434.406 | 21720.289 | 2.64 | 212987 | 0.20 | 200000 | |
| Zn | 66 | 1 | No Gas | 0.019 | 0.935 | 304.36 | 3040 | 0.00 | 2000 | |
| Se | 82 | 1 | No Gas | -0.254 | -12.684 | -104.19 | 210 | -0.12 | 2000 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 573136 | 0.10 | 622488 | 92.07 | 70 | 120 | |
| Ge | 72 | 2 | He | 623783 | 0.67 | 646115 | 96.54 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2169199 | 0.23 | 2248671 | 96.47 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3103279 | 0.84 | 3171445 | 97.85 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3401262 | 0.65 | 3428605 | 99.20 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS24061196-10PDS |
| Data File Name | 038SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T11:36:56-05:00 |
| Sample Type | Sample |
| Dilution | 10 |
| Comment | TW B 214140 |
| ISTD Ref FileName | 010CALB.d |
| Sample QC Pass/Fail | Pass |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 2.106 | 21.056 | 1.43 | 48796 | 0.00 | 2000 | |
| Be | 9 | 1 | No Gas | 96.633 | 966.327 | 2.02 | 199330 | 0.05 | 2000 | |
| V | 51 | 2 | He | 98.438 | 984.376 | 1.61 | 452860 | 0.02 | 2000 | |
| Cr | 52 | 2 | He | 99.158 | 991.578 | 1.87 | 514294 | 0.02 | 2000 | |
| Fe | 56 | 2 | He | 13181.863 | 131818.633 | 1.82 | 67016659 | 0.02 | 200000 | |
| Se | 78 | 2 | He | 99.068 | 990.678 | 2.63 | 7957 | 1.25 | 2000 | |
| As | 75 | 2 | He | 98.629 | 986.285 | 1.22 | 81609 | 0.12 | 2000 | |
| Ca | 44 | 2 | He | 12134.498 | 121344.981 | 2.05 | 363254 | 3.34 | 200000 | |
| Na | 23 | 2 | He | 24609.555 | 246095.548 | 1.73 | 17005488 | 0.14 | 200000 | |
| Mg | 24 | 2 | He | 10874.577 | 108745.775 | 2.01 | 4721709 | 0.23 | 200000 | |
| K | 39 | 2 | He | 10404.260 | 104042.603 | 1.55 | 5809086 | 0.18 | 200000 | |
| Mn | 55 | 2 | He | 148.767 | 1487.666 | 0.94 | 620541 | 0.02 | 2000 | |
| Co | 59 | 2 | He | 97.143 | 971.432 | 1.94 | 799052 | 0.01 | 2000 | |
| Ni | 60 | 2 | He | 97.717 | 977.169 | 2.50 | 202557 | 0.05 | 2000 | |
| Cu | 63 | 2 | He | 98.446 | 984.456 | 1.77 | 545823 | 0.02 | 2000 | |
| Zn | 66 | 2 | He | 98.864 | 988.638 | 2.22 | 104432 | 0.09 | 2000 | |
| Al | 27 | 2 | He | 97.061 | 970.614 | 0.90 | 29114 | 0.33 | 2000 | |
| B | 11 | 1 | No Gas | 2.101 | 21.014 | 6.97 | 9135 | 0.02 | 2000 | |
| Al | 27 | 1 | No Gas | 97.124 | 971.236 | 1.05 | 1084188 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 1326.126 | 13261.263 | 1.66 | 7558992 | 0.02 | 2000 | |
| Ag | 107 | 1 | No Gas | 100.668 | 1006.676 | 2.19 | 1797176 | 0.01 | 2000 | |
| Cd | 111 | 1 | No Gas | 98.014 | 980.139 | 1.38 | 342857 | 0.03 | 2000 | |
| Sr | 88 | 1 | No Gas | 31.926 | 319.265 | 2.13 | 1080325 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 96.419 | 964.187 | 1.80 | 647998 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.041 | 0.410 | 33.07 | 4081 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | 94.618 | 946.185 | 0.58 | 1505495 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 156.167 | 1561.671 | 1.56 | 1002427 | 0.02 | 2000 | |
| Tl | 205 | 1 | No Gas | 110.439 | 1104.388 | 0.38 | 4242608 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 110.787 | 1107.869 | 0.36 | 1809948 | 0.01 | 2000 | |
| Pb | 208 | 1 | No Gas | 96.919 | 969.189 | 0.50 | 5941229 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.014 | 0.141 | 22.65 | 3321 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 11826.670 | 118266.697 | 4.39 | 20489 | 57.72 | 200000 | |
| Sb | 121 | 2 | He | 95.133 | 951.333 | 2.08 | 709254 | 0.01 | 2000 | |
| Ti | 47 | 2 | He | 97.088 | 970.876 | 2.24 | 16734 | 0.58 | 2000 | |
| Cu | 63 | 1 | No Gas | 96.347 | 963.472 | 1.45 | 1089070 | 0.01 | 2000 | |
| Ca | 44 | 1 | No Gas | 12161.124 | 121611.235 | 1.62 | 5278027 | 0.23 | 200000 | |
| Zn | 66 | 1 | No Gas | 98.676 | 986.763 | 1.84 | 290757 | 0.03 | 2000 | |
| Se | 82 | 1 | No Gas | 97.556 | 975.561 | 0.37 | 19244 | 0.51 | 2000 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 555383 | 0.09 | 622488 | 89.22 | 70 | 120 | |
| Ge | 72 | 2 | He | 615812 | 0.74 | 646115 | 95.31 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2119899 | 0.54 | 2248671 | 94.27 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 2997799 | 0.70 | 3171445 | 94.52 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3231900 | 1.02 | 3428605 | 94.26 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS24061196-01 |
| Data File Name | 041SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T11:44:09-05:00 |
| Sample Type | Sample |
| Dilution | 20 |
| Comment | TW B 214140 |
| ISTD Ref FileName | 010CALB.d |
| Sample QC Pass/Fail | Pass |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 3.097 | 61.935 | 4.69 | 58404 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | -0.005 | -0.100 | -204.04 | 60 | -0.01 | 2000 | |
| V | 51 | 2 | He | -0.086 | -1.717 | -26.30 | 2481 | 0.00 | 2000 | |
| Cr | 52 | 2 | He | 0.860 | 17.201 | 5.76 | 9727 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 6.482 | 129.645 | 2.94 | 57818 | 0.01 | 200000 | |
| Se | 78 | 2 | He | 0.091 | 1.817 | 130.58 | 111 | 0.08 | 2000 | |
| As | 75 | 2 | He | 0.001 | 0.015 | 163.42 | 242 | 0.00 | 2000 | |
| Ca | 44 | 2 | He | 16535.561 | 330711.217 | 1.20 | 508425 | 3.25 | 200000 | |
| Na | 23 | 2 | He | 34109.235 | 682184.692 | 1.19 | 24182738 | 0.14 | 200000 | |
| Mg | 24 | 2 | He | 4510.769 | 90215.383 | 1.57 | 2014678 | 0.22 | 200000 | |
| K | 39 | 2 | He | 301.240 | 6024.796 | 1.79 | 234386 | 0.13 | 200000 | |
| Mn | 55 | 2 | He | 2.645 | 52.898 | 2.14 | 12246 | 0.02 | 2000 | |
| Co | 59 | 2 | He | 0.064 | 1.281 | 11.56 | 890 | 0.01 | 2000 | |
| Ni | 60 | 2 | He | -0.008 | -0.166 | -99.14 | 413 | 0.00 | 2000 | |
| Cu | 63 | 2 | He | -0.149 | -2.973 | -10.28 | 510 | -0.03 | 2000 | |
| Zn | 66 | 2 | He | -0.280 | -5.609 | -37.27 | 880 | -0.03 | 2000 | |
| Al | 27 | 2 | He | 2.904 | 58.083 | 18.98 | 1803 | 0.16 | 2000 | |
| B | 11 | 1 | No Gas | -0.641 | -12.828 | -20.03 | 6175 | -0.01 | 2000 | |
| Al | 27 | 1 | No Gas | 2.939 | 58.785 | 4.95 | 63693 | 0.00 | 2000 | |
| Si | 28 | 1 | No Gas | 1081.858 | 21637.161 | 1.71 | 6406023 | 0.02 | 2000 | |
| Ag | 107 | 1 | No Gas | -0.047 | -0.937 | -3.17 | 347 | -0.01 | 2000 | |
| Cd | 111 | 1 | No Gas | -0.015 | -0.303 | -76.75 | 52 | -0.03 | 2000 | |
| Sr | 88 | 1 | No Gas | 314.581 | 6291.622 | 1.29 | 10954459 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.053 | 1.060 | 19.98 | 650 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | -0.002 | -0.047 | -455.14 | 3667 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | -0.011 | -0.217 | -38.65 | 793 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 125.543 | 2510.864 | 1.93 | 831303 | 0.02 | 2000 | |
| Tl | 205 | 1 | No Gas | -0.029 | -0.588 | -12.20 | 840 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | -0.028 | -0.563 | -28.63 | 367 | -0.01 | 2000 | |
| Pb | 208 | 1 | No Gas | -0.026 | -0.513 | -15.66 | 2653 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.147 | 2.941 | 3.95 | 12743 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 16853.088 | 337061.761 | 2.25 | 29993 | 56.19 | 200000 | |
| Sb | 121 | 2 | He | -0.008 | -0.159 | -112.03 | 380 | 0.00 | 2000 | |
| Ti | 47 | 2 | He | 0.076 | 1.522 | 74.03 | 20 | 0.38 | 2000 | |
| Cu | 63 | 1 | No Gas | 0.104 | 2.078 | 33.35 | 4521 | 0.00 | 2000 | |
| Ca | 44 | 1 | No Gas | 16277.257 | 325545.132 | 1.68 | 7291954 | 0.22 | 200000 | |
| Zn | 66 | 1 | No Gas | -0.197 | -3.936 | -5.21 | 2420 | -0.01 | 2000 | |
| Se | 82 | 1 | No Gas | 0.117 | 2.340 | 113.00 | 287 | 0.04 | 2000 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 574097 | 0.18 | 622488 | 92.23 | 70 | 120 | |
| Ge | 72 | 2 | He | 632749 | 0.54 | 646115 | 97.93 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2190333 | 0.78 | 2248671 | 97.41 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3091524 | 0.65 | 3171445 | 97.48 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3321952 | 1.12 | 3428605 | 96.89 | 70 | 120 | |

# Continuing Calibration Verification (CCV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCV |
| Data File Name | 046_CCV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T11:56:09-05:00 |
| Sample Type | CCV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Exp Value | %Rec | %Low | %High2 | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 99.939 | 2.116 | 778879 | 1.45 | 100 | 99.9 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 100.772 | 2.498 | 200055 | 2.03 | 100 | 100.8 | 90 | 110 | |
| V | 51 | 2 | He | 100.568 | 0.715 | 473687 | 0.96 | 100 | 100.6 | 90 | 110 | |
| Cr | 52 | 2 | He | 101.488 | 0.943 | 538868 | 0.68 | 100 | 101.5 | 90 | 110 | |
| Fe | 56 | 2 | He | 10003.900 | 1.574 | 52085688 | 1.73 | 10000 | 100.0 | 90 | 110 | |
| Se | 78 | 2 | He | 99.116 | 3.042 | 8153 | 3.72 | 100 | 99.1 | 90 | 110 | |
| As | 75 | 2 | He | 99.864 | 0.850 | 84612 | 1.64 | 100 | 99.9 | 90 | 110 | |
| Ca | 44 | 2 | He | 10019.720 | 1.911 | 307265 | 2.13 | 10000 | 100.2 | 90 | 110 | |
| Na | 23 | 2 | He | 10227.837 | 1.102 | 7293241 | 1.57 | 10000 | 102.3 | 90 | 110 | |
| Mg | 24 | 2 | He | 10051.885 | 1.192 | 4469538 | 1.51 | 10000 | 100.5 | 90 | 110 | |
| K | 39 | 2 | He | 10054.315 | 0.986 | 5750488 | 1.28 | 10000 | 100.5 | 90 | 110 | |
| Mn | 55 | 2 | He | 101.680 | 0.663 | 434586 | 1.18 | 100 | 101.7 | 90 | 110 | |
| Co | 59 | 2 | He | 100.523 | 1.096 | 846676 | 1.26 | 100 | 100.5 | 90 | 110 | |
| Ni | 60 | 2 | He | 101.766 | 1.705 | 215992 | 1.60 | 100 | 101.8 | 90 | 110 | |
| Cu | 63 | 2 | He | 101.473 | 1.544 | 576062 | 1.65 | 100 | 101.5 | 90 | 110 | |
| Zn | 66 | 2 | He | 100.903 | 0.666 | 109117 | 0.20 | 100 | 100.9 | 90 | 110 | |
| Al | 27 | 2 | He | 101.305 | 2.964 | 31078 | 3.66 | 100 | 101.3 | 90 | 110 | |
| B | 11 | 1 | No Gas | 481.970 | 2.077 | 541109 | 1.58 | 500 | 96.4 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 99.362 | 2.144 | 1107410 | 1.56 | 100 | 99.4 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 486.953 | 2.706 | 2887645 | 2.00 | 5000 | 9.7 | 90 | 110 | CCV Main CR1-2 Failed |
| Ag | 107 | 1 | No Gas | 100.532 | 1.007 | 1819533 | 1.69 | 100 | 100.5 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 100.751 | 0.651 | 357277 | 1.46 | 100 | 100.8 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 100.439 | 0.908 | 3439840 | 1.73 | 100 | 100.4 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 98.782 | 0.925 | 673020 | 1.32 | 100 | 98.8 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 100.348 | 1.300 | 1235468 | 1.96 | 100 | 100.3 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 103.349 | 2.132 | 1642737 | 1.62 | 100 | 103.3 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 99.034 | 1.919 | 644747 | 2.34 | 100 | 99.0 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 105.657 | 0.936 | 4211037 | 2.06 | 100 | 105.7 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 105.776 | 0.966 | 1792783 | 1.90 | 100 | 105.8 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 100.111 | 0.669 | 6366276 | 1.79 | 100 | 100.1 | 90 | 110 | |
| U | 238 | 1 | No Gas | 100.370 | 1.050 | 7110137 | 2.12 | 100 | 100.4 | 90 | 110 | |
| Ca | 43 | 2 | He | 10143.624 | 4.382 | 17999 | 4.81 | 10000 | 101.4 | 90 | 110 | |
| Sb | 121 | 2 | He | 100.171 | 1.125 | 764732 | 1.89 | 100 | 100.2 | 90 | 110 | |
| Ti | 47 | 2 | He | 102.784 | 2.496 | 18139 | 1.96 | 100 | 102.8 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 100.805 | 2.413 | 1138165 | 1.86 | 100 | 100.8 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 105.499 | 3.501 | 20769 | 3.00 | 100 | 105.5 | 90 | 110 | |
| Zr | 90 | 1 | No Gas | 89.133 | 0.674 | 1897721 | 1.46 | 100 | 89.1 | 90 | 110 | CCV Main CR1-2 Failed |
| Zr | 90 | 2 | He | 89.033 | 1.270 | 782039 | 1.91 | 100 | 89.0 | 90 | 110 | CCV Main CR1-2 Failed |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 534563 | 0.68 | 622488 | 85.88 | 70 | 120 | |
| Ge | 72 | 2 | He | 630539 | 0.83 | 646115 | 97.59 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2118056 | 0.55 | 2248671 | 94.19 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3038963 | 0.92 | 3171445 | 95.82 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3352682 | 1.13 | 3428605 | 97.79 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCB |
| Data File Name | 047_CCB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\070124A.b |
| Acq Date Time | 2024-07-01T11:58:34-05:00 |
| Sample Type | CCB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | -0.056 | -112.7 | 33469 | 1.7 | 0.5 | |
| Be | 9 | 1 | No Gas | 0.009 | 15.3 | 92 | 3.1 | 0.5 | |
| V | 51 | 2 | He | -0.313 | -5.4 | 1445 | 6.2 | 2.5 | |
| Cr | 52 | 2 | He | -0.325 | -3.5 | 3551 | 2.2 | 2.5 | |
| Fe | 56 | 2 | He | -2.078 | -5.9 | 13407 | 5.2 | 100 | |
| Se | 78 | 2 | He | -0.163 | -78.4 | 92 | 12.1 | 2 | |
| As | 75 | 2 | He | -0.091 | -7.5 | 168 | 2.3 | 2.5 | |
| Ca | 44 | 2 | He | -8.187 | -6.5 | 437 | 2.6 | 100 | |
| Na | 23 | 2 | He | -46.658 | -4.8 | 64789 | 2.9 | 100 | |
| Mg | 24 | 2 | He | -5.259 | -1.3 | 1227 | 2.9 | 100 | |
| K | 39 | 2 | He | -4.852 | -47.7 | 61981 | 1.3 | 100 | |
| Mn | 55 | 2 | He | -0.079 | -6.5 | 600 | 4.4 | 2.5 | |
| Co | 59 | 2 | He | -0.023 | -20.9 | 160 | 27.2 | 2.5 | |
| Ni | 60 | 2 | He | -0.102 | -6.6 | 220 | 7.9 | 2.5 | |
| Cu | 63 | 2 | He | -0.166 | -4.0 | 423 | 8.9 | 2 | |
| Zn | 66 | 2 | He | -0.125 | -59.1 | 1070 | 7.1 | 2.5 | |
| Al | 27 | 2 | He | -0.081 | -190.1 | 933 | 5.9 | 5 | |
| B | 11 | 1 | No Gas | 1.822 | 35.8 | 9218 | 8.3 | 0.5 | CCB Main CR1 Failed |
| Al | 27 | 1 | No Gas | -0.044 | -270.1 | 30597 | 3.7 | 5 | |
| Si | 28 | 1 | No Gas | -2.201 | -23.8 | 177100 | 1.1 | 10 | |
| Ag | 107 | 1 | No Gas | -0.041 | -22.5 | 473 | 36.4 | 2.5 | |
| Cd | 111 | 1 | No Gas | -0.023 | -7.4 | 23 | 28.4 | 1 | |
| Sr | 88 | 1 | No Gas | -0.057 | -1.2 | 737 | 3.1 | 2.5 | |
| Mo | 95 | 1 | No Gas | 0.027 | 48.5 | 483 | 19.6 | 2.5 | |
| Sn | 118 | 1 | No Gas | 0.018 | 76.6 | 4017 | 4.5 | 5 | |
| Sb | 121 | 1 | No Gas | -0.015 | -62.9 | 727 | 21.3 | 2.5 | |
| Ba | 137 | 1 | No Gas | -0.075 | -7.1 | 300 | 12.0 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.062 | 89.2 | 4628 | 49.3 | 1 | |
| Tl | 203 | 1 | No Gas | 0.071 | 71.0 | 2114 | 41.9 | 1 | |
| Pb | 208 | 1 | No Gas | -0.032 | -12.6 | 2347 | 11.5 | 2.5 | |
| U | 238 | 1 | No Gas | -0.018 | -1.2 | 1207 | 1.7 | 2.5 | |
| Ca | 43 | 2 | He | -1.941 | -325.2 | 13 | 86.6 | 100 | |
| Sb | 121 | 2 | He | -0.007 | -47.9 | 393 | 8.2 | 2.5 | |
| Ti | 47 | 2 | He | -0.018 | -178.0 | 3 | 173.2 | 2.5 | |
| Cu | 63 | 1 | No Gas | -0.192 | -5.7 | 1090 | 12.0 | 2.5 | |
| Se | 82 | 1 | No Gas | -0.013 | -2277.9 | 263 | 21.6 | 2 | |
| Zr | 90 | 1 | No Gas | 0.066 | 5.1 | 3030 | 2.4 | 2.5 | |
| Zr | 90 | 2 | He | 0.052 | 18.6 | 1757 | 4.6 | 2.5 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 581046 | 0.23 | 622488 | 93.34 | 70 | 120 | |
| Ge | 72 | 2 | He | 646926 | 1.35 | 646115 | 100.13 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2216860 | 0.76 | 2248671 | 98.59 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

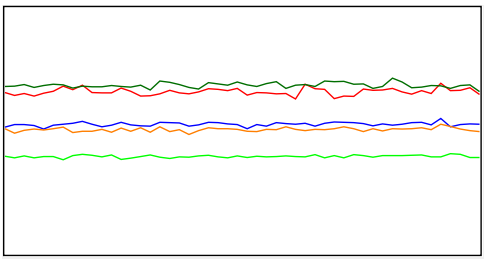
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3163243 | 0.27 | 3171445 | 99.74 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3464927 | 0.60 | 3428605 | 101.06 | 70 | 120 | |

# Tune Check Report

| | |
|---|---|
| **Operator Name** | ALSHS NoUser |
| **Acq/Data Batch** | C:\Agilent\ICPMH\1\DATA\070124A.b |
| **Acq. Date-Time** | 7/1/2024 9:12:41 AM |
| **Report Comment** | --- |
| **Instrument Name** | G8422A SG22121190 |

**[No Gas]**

**Sensitivity**



| | |
|---|---|
| Sampling Period [sec] | 0.514 |
| Integration Time [sec] | 0.1 |

| Mass | Range | Count | Resp [cps/(ug/L)] | Resp (Required) [cps/(ug/L)] | Resp (Flag) |
|---|---|---|---|---|---|
| 9 | 5000 | 3295 | 32953.17 | | |
| 24 | 50000 | 19821 | 198214.21 | | |
| 59 | 50000 | 26356 | 263562.07 | | |
| 115 | 100000 | 50547 | 505469.14 | | |
| 208 | 50000 | 34263 | 342629.87 | | |

| Mass | Resp Ratio | Resp Ratio (Required) | Resp Ratio (Flag) |
|---|---|---|---|
| 9 | | - | |
| 24 | | - | |
| 59 | | - | |
| 115 | | - | |
| 208 | | - | |

| Mass | RSD% | RSD% (Required) | RSD% (Flag) |
|---|---|---|---|
| 9 | 2.107 | 5.000 | |
| 24 | 1.333 | 5.000 | |
| 59 | 1.453 | 5.000 | |
| 115 | 1.542 | 5.000 | |
| 208 | 1.503 | 5.000 | |

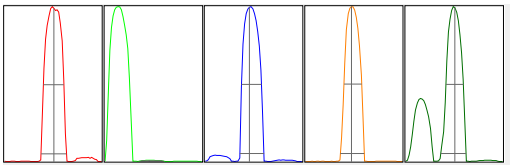
| Mass | Background | Background (Required) | Background (Flag) |
|---|---|---|---|
| 9 | 1.300 | | |
| 24 | 2.300 | | |
| 59 | 0.900 | | |
| 115 | 1.300 | | |
| 208 | 1.700 | | |

**Oxide/Doubly Charged Ratio**

| | |
|---|---|
| Oxide | 156 / 140 1.258 % |
| Doubly Charged | 70 / 140 0.763 % |

# Tune Check Report

### Resolution/Axis



| | |
|---|---|
| Integration Time [sec] | 0.1 |
| Acquisition Time [sec] | 37.4 |
| Y Axis | Linear |

| Mass | Peak Height | Axis | Axis (Required) | Axis (Flag) |
|---|---|---|---|---|
| 9 | 3293.40 | 9.05 | 8.90 - 9.10 | |
| 24 | 20139.47 | 23.90 | 23.90 - 24.10 | |
| 59 | 26734.75 | 58.90 | 58.90 - 59.10 | |
| 115 | 51547.69 | 114.95 | 114.90 - 115.10 | |
| 208 | 33993.10 | 208.05 | 207.90 - 208.10 | |

| Mass | W-50% | W-5% | W-5% (Required) | W-5% (Flag) |
|---|---|---|---|---|
| 9 | 0.62 | 0.779 | | |
| 24 | 0.64 | 0.746 | | |
| 59 | 0.61 | 0.739 | | |
| 115 | 0.54 | 0.727 | | |
| 208 | 0.53 | 0.772 | | |

### Tune Parameters

#### Plasma Parameters

| | | | | | |
|---|---|---|---|---|---|
| Plasma Mode | --- | Nebulizer Gas | 0.78 L/min | Dilution Gas | 0.30 L/min |
| RF Power | 1600 W | Option Gas | --- | Auxiliary Gas | 0.90 L/min |
| RF Matching | 1.40 V | Nebulizer Pump | 0.10 rps | Plasma Gas | 15.0 L/min |
| Sample Depth | 10.0 mm | S/C Temp | 2 °C | | |

#### Lens Parameters

| | | | | | |
|---|---|---|---|---|---|
| Extract 1 | 0.0 V | Omega Lens | 9.5 V | Deflect | 14.8 V |
| Extract 2 | -195.0 V | Cell Entrance | -30 V | Plate Bias | -35 V |
| Omega Bias | -95 V | Cell Exit | -50 V | | |

#### Cell Parameters

| | | | | | |
|---|---|---|---|---|---|
| Use Gas | No | 3rd Gas Flow | --- | Energy Discrimination | 5.0 V |
| He Flow | 0.0 mL/min | OctP Bias | -8.0 V | | |
| H2 Flow | 0.0 mL/min | OctP RF | 200 V | | |

#### QP Parameters

| | | | | | |
|---|---|---|---|---|---|
| Mass Gain | 124 | Axis Gain | 0.9993 | QP Bias | -3.0 V |
| Mass Offset | 126 | Axis Offset | 0.10 | | |

### Hardware Settings

#### Torch

| | | | |
|---|---|---|---|
| Torch H | 0.0 mm | Torch V | -0.4 mm |

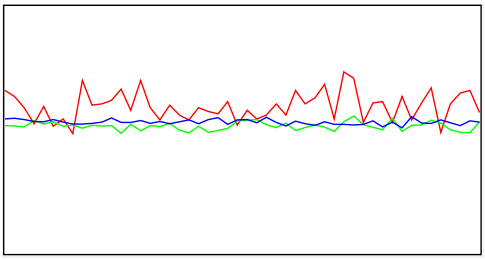
#### EM

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 2.9 mV | Analog HV | 2151 V | Pulse HV | 918 V |

**[He]**

# Tune Check Report

**Sensitivity**



| | |
|---|---|
| Sampling Period [sec] | 0.306 |
| Integration Time [sec] | 0.1 |

| Mass | Range | Count | Resp [cps/(ug/L)] | Resp (Required) [cps/(ug/L)] | Resp (Flag) |
|---|---|---|---|---|---|
| 9 | 200 | 119 | 1194.05 | | |
| 24 | 2000 | 1031 | 10311.34 | | |
| 59 | 20000 | 10635 | 106347.51 | | |

| Mass | Resp Ratio | Resp Ratio (Required) | Resp Ratio (Flag) |
|---|---|---|---|
| 9 | | - | |
| 24 | | - | |
| 59 | | - | |

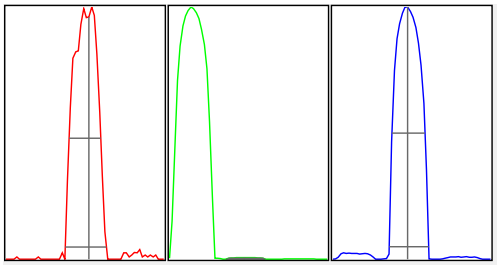
| Mass | RSD% | RSD% (Required) | RSD% (Flag) |
|---|---|---|---|
| 9 | 9.778 | 5.000 | Fail |
| 24 | 3.241 | 5.000 | |
| 59 | 1.933 | 5.000 | |

| Mass | Background | Background (Required) | Background (Flag) |
|---|---|---|---|
| 9 | 0.200 | | |
| 24 | 1.000 | | |
| 59 | 0.100 | | |

**Oxide/Doubly Charged Ratio**

| | |
|---|---|
| Oxide | 156 / 140 1.720 % |
| Doubly Charged | 70 / 140 0.727 % |

**Resolution/Axis**



| | |
|---|---|
| Integration Time [sec] | 0.1 |
| Acquisition Time [sec] | 22.24 |
| Y Axis | Linear |

| Mass | Peak Height | Axis | Axis (Required) | Axis (Flag) |
|---|---|---|---|---|
| 9 | 114.51 | 9.10 | 8.90 - 9.10 | |
| 24 | 1011.40 | 23.95 | 23.90 - 24.10 | |
| 59 | 10726.53 | 58.95 | 58.90 - 59.10 | |

| Mass | W-50% | W-5% | W-5% (Required) | W-5% (Flag) |
|---|---|---|---|---|
| 9 | 0.59 | 0.770 | | |
| 24 | 0.66 | 0.744 | | |

# Tune Check Report

| Mass | W-50% | W-5% | W-5% (Required) | W-5% (Flag) |
|---|---|---|---|---|
| 59 | 0.62 | 0.740 | | |

## Tune Parameters

### Plasma Parameters

| | | | | | |
|---|---|---|---|---|---|
| Plasma Mode | --- | Nebulizer Gas | 0.78 L/min | Dilution Gas | 0.30 L/min |
| RF Power | 1600 W | Option Gas | --- | Auxiliary Gas | 0.90 L/min |
| RF Matching | 1.40 V | Nebulizer Pump | 0.10 rps | Plasma Gas | 15.0 L/min |
| Sample Depth | 10.0 mm | S/C Temp | 2 °C | | |

### Lens Parameters

| | | | | | |
|---|---|---|---|---|---|
| Extract 1 | 0.0 V | Omega Lens | 8.5 V | Deflect | 0.2 V |
| Extract 2 | -190.0 V | Cell Entrance | -40 V | Plate Bias | -80 V |
| Omega Bias | -90 V | Cell Exit | -65 V | | |

### Cell Parameters

| | | | | | |
|---|---|---|---|---|---|
| Use Gas | Yes | 3rd Gas Flow | --- | Energy Discrimination | 4.0 V |
| He Flow | 4.0 mL/min | OctP Bias | -22.0 V | | |
| H2 Flow | 0.0 mL/min | OctP RF | 180 V | | |

### QP Parameters

| | | | | | |
|---|---|---|---|---|---|
| Mass Gain | 124 | Axis Gain | 0.9993 | QP Bias | -18.0 V |
| Mass Offset | 126 | Axis Offset | 0.10 | | |

## Hardware Settings

### Torch

| | | | |
|---|---|---|---|
| Torch H | 0.0 mm | Torch V | -0.4 mm |

### EM

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 2.9 mV | Analog HV | 2151 V | Pulse HV | 918 V |

# Prep Batch Report

| | | | |
|---|---|---|---|
| **Batch ID:** | 214140 | **Init Sample Weight / Volume:** | 10 |
| **Prep Code:** | 3010A | **Final Sample Volume:** | 10 |
| **Start Date:** | 26 Jun 2024 01:00 PM | **Original Factor:** | 1 |
| **End Date:** | 26 Jun 2024 05:00 PM | **Prep Unit Factor:** | 1 |
| **Technician:** | Dominique Mitchel | **Prep Unit:** | mL |

| Sample ID | Fraction | Matrix | pH | Initial Weight / Volume | Final Volume | Prep Factor | Spike Factor | Comments |
|---|---|---|---|---|---|---|---|---|
| HS24060985-01 | B | Groundwater | <2 | 10 | 10 | 1 | 1 | DOD |
| HS24060985-02 | B | Groundwater | <2 | 10 | 10 | 1 | 1 | |
| HS24060985-04 | B | Groundwater | <2 | 10 | 10 | 1 | 1 | |
| HS24060985-09 | B | Groundwater | <2 | 10 | 10 | 1 | 1 | |
| HS24060985-10 | B | Groundwater | <2 | 10 | 10 | 1 | 1 | |
| HS24061196-01 | C | Water | <2 | 10 | 10 | 1 | 1 | |
| HS24061196-02 | C | Water | <2 | 10 | 10 | 1 | 1 | |
| HS24061196-05 | C | Water | <2 | 10 | 10 | 1 | 1 | |
| HS24061196-06 | C | Water | <2 | 10 | 10 | 1 | 1 | |
| HS24061196-08 | C | Water | <2 | 10 | 10 | 1 | 1 | |
| HS24061196-09 | C | Water | <2 | 10 | 10 | 1 | 1 | |
| HS24061196-10 | C | Water | <2 | 10 | 10 | 1 | 1 | |
| HS24061196-10MS | A | | <2 | 10 | 10 | 1 | 1 | |
| HS24061196-10MSD | A | | <2 | 10 | 10 | 1 | 1 | |
| HS24061196-10PDS | A | | <2 | 10 | 10 | 1 | 1 | |
| HS24061196-10SD | A | | <2 | 10 | 10 | 1 | 1 | |
| HS24061218-02 | C | Water | <2 | 10 | 10 | 1 | 1 | |
| HS24061218-03 | C | Water | <2 | 10 | 10 | 1 | 1 | |
| HS24061218-05 | C | Water | <2 | 10 | 10 | 1 | 1 | |
| HS24061218-07 | C | Water | <2 | 10 | 10 | 1 | 1 | |
| LCS-214140 | A | | | 10 | 10 | 1 | 1 | |
| MBLK-214140 | A | | | 10 | 10 | 1 | 1 | |

# Prep Batch Report

| | | | |
|---|---|---|---|
| **Batch ID:** | 214140 | **Init Sample Weight / Volume:** | 10 |
| **Prep Code:** | 3010A | **Final Sample Volume:** | 10 |
| **Start Date:** | 26 Jun 2024 01:00 PM | **Original Factor:** | 1 |
| **End Date:** | 26 Jun 2024 05:00 PM | **Prep Unit Factor:** | 1 |
| **Technician:** | Dominique Mitchel | **Prep Unit:** | mL |

| Stage | Description | Value |
|---|---|---|
| 3010A | Hot Block ID | HB10 |
| 3010A | Thermometer ID | 942333 |
| 3010A | Thermometer Location | A3 |
| 3010A | Dig. Cup ID | 3111202609 |
| 3010A | FilterMate ID | NA |
| 3010A | LCS/MS Spike ID | 3111202611 |
| 3010A | LCS/MS Volume, mL | 0.05 |
| 3010A | HNO3 ID | 3111-202514 |
| 3010A | HCl ID | 3111-202416 |
| 3010A | Method for HS-MET002 SOP (3010A) | Method SW3010A |
| 3010A | Dig. Start Temp (U) | 95 |
| 3010A | Dig. Start Temp (C) | 95 |
| 3010A | Dig. End Temp (U) | 95 |
| 3010A | Dig. End Temp (C) | 95 |
| 3010A | pH Paper: | 3111201820 |
| MET | Pipette #3 | ICP#10(0.05ML) |
| MET | Pipette #1 | MP#11(10ML)/ICP#13 (1ML) |

# Prep Batch Report

| | | | |
|---|---|---|---|
| **Batch ID:** | 214374 | **Init Sample Weight / Volume:** | 10 |
| **Prep Code:** | Hg_WPr | **Final Sample Volume:** | 10 |
| **Start Date:** | 01 Jul 2024 09:30 AM | **Original Factor:** | 1 |
| **End Date:** | 01 Jul 2024 12:30 PM | **Prep Unit Factor:** | 1 |
| **Technician:** | Jacob Salome | **Prep Unit:** | mL |

| Sample ID | Fraction | Matrix | pH | Initial Weight / Volume | Final Volume | Prep Factor | Spike Factor | Comments |
|---|---|---|---|---|---|---|---|---|
| HS24061196-01 | C | Water | | 10 | 10 | 1 | 1 | |
| HS24061196-02 | C | Water | | 10 | 10 | 1 | 1 | |
| HS24061196-05 | C | Water | | 10 | 10 | 1 | 1 | |
| HS24061196-06 | C | Water | | 10 | 10 | 1 | 1 | |
| HS24061196-08 | C | Water | | 10 | 10 | 1 | 1 | |
| HS24061196-09 | C | Water | | 10 | 10 | 1 | 1 | |
| HS24061196-10 | C | Water | | 10 | 10 | 1 | 1 | |
| HS24061218-02 | C | Water | | 10 | 10 | 1 | 1 | |
| HS24061218-03 | C | Water | | 10 | 10 | 1 | 1 | |
| HS24061218-05 | C | Water | | 10 | 10 | 1 | 1 | |
| HS24061218-07 | C | Water | | 10 | 10 | 1 | 1 | |
| HS24061313-01 | B | Water | | 10 | 10 | 1 | 1 | |
| HS24061313-01MS | A | | | 10 | 10 | 1 | 1 | |
| HS24061313-01MSD | A | | | 10 | 10 | 1 | 1 | |
| HS24061313-02 | B | Water | | 10 | 10 | 1 | 1 | |
| HS24061313-03 | B | Water | | 10 | 10 | 1 | 1 | |
| HS24061313-04 | B | Water | | 10 | 10 | 1 | 1 | |
| LCS-214374 | A | | | 10 | 10 | 1 | 1 | |
| MBLK-214374 | A | | | 10 | 10 | 1 | 1 | |

# Prep Batch Report

| | | | |
|---|---|---|---|
| **Batch ID:** | 214374 | **Init Sample Weight / Volume:** | 10 |
| **Prep Code:** | Hg_WPr | **Final Sample Volume:** | 10 |
| **Start Date:** | 01 Jul 2024 09:30 AM | **Original Factor:** | 1 |
| **End Date:** | 01 Jul 2024 12:30 PM | **Prep Unit Factor:** | 1 |
| **Technician:** | Jacob Salome | **Prep Unit:** | mL |

| Stage | Description | Value |
|---|---|---|
| 200.8PR | Dig. End Temp, C (U) | 94 |
| HG | Sample Tube | 3111202316 |
| Hg_W | Method for SOP HS-MET004 (7470A / EPA 245.1) | 7470A / EPA 245.1 |
| Hg_W | Cal Std ID | CalStd ID -062424 |
| Hg_W | Cal 0.0 vol, mL | 0 |
| Hg_W | Cal 0.2 vol, mL | 0.10 |
| Hg_W | Cal 0.5 vol, mL | 0.25 |
| Hg_W | Cal 2.0 vol, mL | 1 |
| Hg_W | Cal 5.0 vol, mL | 2.5 |
| Hg_W | Cal 10.0 vol, mL | 5 |
| Hg_W | ICV Std vol, mL | 0.25 |
| Hg_W | ICB Std vol, mL | 0 |
| Hg_W | CCV Std vol, mL | 2.5 |
| Hg_W | CCB Std vol, mL | 0 |
| Hg_W | Digestion Cup ID | 3111202516 |
| Hg_W | Filter ID | N/A |
| Hg_W | Hotblock ID | HB 1 |
| Hg_W | Thermometer ID | W21857 |
| Hg_W | Thermometer Position | A10 |
| Hg_W | LCS/MS ID: | 02- SPK- 062124 |
| Hg_W | LCS Volume, mL | 0.5 |
| Hg_W | MS Volume, mL | 0.5 |
| Hg_W | H2SO4 ID | 311120201819 |
| Hg_W | K2S2O8 ID | PER - 7/3/23 |
| Hg_W | HNO3 ID | 3111202304 |
| Hg_W | 5% KMnO4 ID | KMNO - 7/3/23 |
| Hg_W | NaCl/Hydroxylamine ID | HYDRO - 7/3/23 |
| Hg_W | Dig. Start Time | 13:30PM |
| Hg_W | Dig. Start Temp, C (U) | 94 |
| Hg_W | Dig. Start Temp, C (C) | 94 |
| Hg_W | 0.5 mL H2SO4 (Time) | YES |
| Hg_W | 0.25 mL HNO3 (Time) | YES |
| Hg_W | Dig. End Time | 15:30PM |
| Hg_W | 1.5 mL 5% KMnO4 (Time) | YES |
| Hg_W | Dig. End Temp, C (C) | 94 |

# Prep Batch Report

| | | | |
|---|---|---|---|
| **Batch ID:** | 214374 | **Init Sample Weight / Volume:** | 10 |
| **Prep Code:** | Hg_WPr | **Final Sample Volume:** | 10 |
| **Start Date:** | 01 Jul 2024 09:30 AM | **Original Factor:** | 1 |
| **End Date:** | 01 Jul 2024 12:30 PM | **Prep Unit Factor:** | 1 |
| **Technician:** | Jacob Salome | **Prep Unit:** | mL |

| Stage | Description | Value |
|---|---|---|
| Hg_W | 0.6 mL NaCl/Hydrox. (Time) | YES |
| Hg_W | 0.8 mL K2S2O8 (Time) | YES |
| Hg_W | 0.5 mL 10% SnCl2 ID | SNCL - 5/16/24 |
| Hg_W | ICCV Std vol, mL | 2.5 |
| Hg_W | CRA Std vol, mL | 0.1 |
| Hg_W | pH Paper: | 30010709607 |
| MET | Pipette #3 | HG #12 |
| MET | Pipette #1 | ICP#12 |

# HS24061196 ALS  Middletown Level IV
# Package AHH-131

ALS WO# HS24061196

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **ALS Environmental-Houston**

Project AHH131|HS24061196
Workorder 3366027
Report ID 334062 on 7/1/2024 (Revised report. See Project Notations Section.)

## Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jun 26, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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Recipient(s):
Dayna Fisher - ALS Environmental-Houston
Jumoke Lawal - ALS Environmental-Houston
Luis Aguilar - ALS Houston

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Sarah Leung

**Sarah Leung** *(ALS Digital Signature)*
Project Coordinator



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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **ALS Environmental-Houston**

Project AHH131|HS24061196
Workorder 3366027
Report ID 334062 on 7/1/2024 (Revised report. See Project Notations Section.)

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Recipient(s):
Dayna Fisher - ALS Environmental-Houston
Jumoke Lawal - ALS Environmental-Houston
Luis Aguilar - ALS Houston

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Sarah Leung

**Sarah Leung** *(ALS Digital Signature)*
Project Coordinator

**Project** AHH131|HS24061196
**Workorder** 3366027

## Sample Summary

| Lab ID | Sample ID | Matrix | Date Collected | Date Received | Collector | Collection Company |
|---|---|---|---|---|---|---|
| 3366027001 | HS24061196-01 | Ground Water | 06/18/2024 07:10 | 06/26/2024 09:36 | CBC | Collected By Client |
| 3366027002 | HS24061196-02 | Ground Water | 06/18/2024 08:00 | 06/26/2024 09:36 | CBC | Collected By Client |
| 3366027003 | HS24061196-03 | Ground Water | 06/18/2024 08:45 | 06/26/2024 09:36 | CBC | Collected By Client |
| 3366027004 | HS24061196-04 | Ground Water | 06/18/2024 09:30 | 06/26/2024 09:36 | CBC | Collected By Client |
| 3366027005 | HS24061196-05 | Ground Water | 06/18/2024 10:15 | 06/26/2024 09:36 | CBC | Collected By Client |
| 3366027006 | HS24061196-06 | Ground Water | 06/18/2024 10:15 | 06/26/2024 09:36 | CBC | Collected By Client |
| 3366027007 | HS24061196-07 | Ground Water | 06/18/2024 11:00 | 06/26/2024 09:36 | CBC | Collected By Client |
| 3366027008 | HS24061196-08 | Ground Water | 06/18/2024 11:40 | 06/26/2024 09:36 | CBC | Collected By Client |
| 3366027009 | HS24061196-09 | Ground Water | 06/18/2024 11:40 | 06/26/2024 09:36 | CBC | Collected By Client |
| 3366027010 | HS24061196-10 | Ground Water | 06/18/2024 12:30 | 06/26/2024 09:36 | CBC | Collected By Client |
| 3366027011 | HS24061196-11 | Ground Water | 06/18/2024 00:00 | 06/26/2024 09:36 | CBC | Collected By Client |



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Reference

**Notes**

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

**Standard Acronyms/Flags**

| | |
|---|---|
| J | Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte |
| U | Indicates that the analyte was Not Detected (ND) above the MDL |
| N | Indicates presumptive evidence of the presence of a compound |
| MDL | Method Detection Limit |
| PQL | Practical Quantitation Limit |
| RDL | Practical Quantitation Limit for this Project |
| ND | Not Detected - indicates that the analyte was Not Detected |
| Cntr | Analysis was performed using this container |
| RegLmt | Regulatory Limit |
| LCS | Laboratory Control Sample |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| DUP | Sample Duplicate |
| %Rec | Percent Recovery |
| RPD | Relative Percent Difference |
| LOD | DoD Limit of Detection |
| LOQ | DoD Limit of Quantitation |
| DL | DoD Detection Limit |
| I | Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL) |
| (S) | Surrogate Compound |
| NC | Not Calculated |
| * | Result outside of QC limits |
| # | Please reference the result in the Results Section for analyte-level flags. |



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**Project** AHH131|HS24061196
**Workorder** 3366027

## Project Notations

**P1** This certificate of analysis was reissued to generate a level IV deliverable.

## Sample Notations

| Lab ID | Sample ID |
|---|---|

## Result Notations

| Notation Ref. |
|---|



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**Project** AHH131|HS24061196
**Workorder** 3366027

## Detected Results Summary

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-01 | Collected | 06/18/2024 07:10 |
| Lab Sample ID | 3366027001 | Lab Receipt | 06/26/2024 09:36 |

| Compound | Result | Units | LOQ | LOD | DL | Method | Flag |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANICS** | | | | | | | |
| 1,1,2-Trichloroethane | 0.57J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |
| 1,1-Dichloroethene | 5.4 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |
| Benzene | 0.72J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |
| Chloroform | 24.8 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |
| cis-1,2-Dichloroethene | 5.7 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |
| Tetrachloroethene | 2.1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |
| Trichloroethene | 2060 | ug/L | 50.0 | 37.5 | 16.5 | SW846 8260D | # |



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**Project** AHH131|HS24061196
**Workorder** 3366027

## Detected Results Summary

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-03 | Collected | 06/18/2024 08:45 |
| Lab Sample ID | 3366027003 | Lab Receipt | 06/26/2024 09:36 |

| Compound | Result | Units | LOQ | LOD | DL | Method | Flag |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANICS** | | | | | | | |
| Chloromethane | 0.34J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |
| Trichloroethene | 11.2 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |



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**Project** AHH131|HS24061196
**Workorder** 3366027

## Detected Results Summary

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-04 | Collected | 06/18/2024 09:30 |
| Lab Sample ID | 3366027004 | Lab Receipt | 06/26/2024 09:36 |

| Compound | Result | Units | LOQ | LOD | DL | Method | Flag |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANICS** | | | | | | | |
| Trichloroethene | 1.1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |



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**Project** AHH131|HS24061196
**Workorder** 3366027

## Detected Results Summary

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-06 | Collected | 06/18/2024 10:15 |
| Lab Sample ID | 3366027006 | Lab Receipt | 06/26/2024 09:36 |

| Compound | Result | Units | LOQ | LOD | DL | Method | Flag |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANICS** | | | | | | | |
| Trichloroethene | 0.65J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |



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**Project** AHH131|HS24061196
**Workorder** 3366027

## Detected Results Summary

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-10 | Collected | 06/18/2024 12:30 |
| Lab Sample ID | 3366027010 | Lab Receipt | 06/26/2024 09:36 |

| Compound | Result | Units | LOQ | LOD | DL | Method | Flag |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANICS** | | | | | | | |
| Trichloroethene | 0.54J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |



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**Project** AHH131|HS24061196
**Workorder** 3366027

## Detected Results Summary

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-11 | Collected | 06/18/2024 00:00 |
| Lab Sample ID | 3366027011 | Lab Receipt | 06/26/2024 09:36 |

| Compound | Result | Units | LOQ | LOD | DL | Method | Flag |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANICS** | | | | | | | |
| Trichlorofluoromethane | 2.8 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |



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**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-01 | Collected | 06/18/2024 07:10 |
| Lab Sample ID | 3366027001 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,1,2-Trichloroethane | 0.57J | J,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,1-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,1-Dichloroethene | 5.4 | P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,1-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,2-Dibromoethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,2-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,3-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 2,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 2-Butanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 2-Hexanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Acetone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Benzene | 0.72J | J,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Bromobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Bromochloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Bromodichloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Bromoform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Bromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Carbon Disulfide | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Carbon Tetrachloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Chlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Chlorodibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Chloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Chloroform | 24.8 | P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Chloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| cis-1,2-Dichloroethene | 5.7 | P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Dibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Dichlorodifluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Ethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Hexachlorobutadiene | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Isopropylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Methylene Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| mp-Xylene | 1.5U | U,P1 | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |

**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-01 | Collected | 06/18/2024 07:10 |
| Lab Sample ID | 3366027001 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| n-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| n-Propylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| o-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| o-Xylene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| p-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| p-Isopropyltoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| sec-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Styrene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| tert-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Tetrachloroethene | 2.1 | P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Toluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Trichloroethene | 2060 | P1 | ug/L | 50.0 | 37.5 | 16.5 | SW846 8260D | 50 | 06/28/2024 18:12 | TMP | B |
| Trichlorofluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |
| Vinyl Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:56 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 108% | 81 – 118 | 06/28/2024 18:12 | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 106% | 81 – 118 | 06/28/2024 00:56 | |
| 4-Bromofluorobenzene | 460-00-4 | 102% | 85 – 114 | 06/28/2024 18:12 | |
| 4-Bromofluorobenzene | 460-00-4 | 98.2% | 85 – 114 | 06/28/2024 00:56 | |
| Dibromofluoromethane | 1868-53-7 | 97.2% | 80 – 119 | 06/28/2024 18:12 | |
| Dibromofluoromethane | 1868-53-7 | 94% | 80 – 119 | 06/28/2024 00:56 | |
| Toluene-d8 | 2037-26-5 | 104% | 89 – 112 | 06/28/2024 18:12 | |
| Toluene-d8 | 2037-26-5 | 98.3% | 89 – 112 | 06/28/2024 00:56 | |



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**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-02 | Collected | 06/18/2024 08:00 |
| Lab Sample ID | 3366027002 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,1,1-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,1,2,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,1,2-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,1-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,1-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,1-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,2,3-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,2,3-Trichloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,2,4-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,2,4-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,2-Dibromo-3-chloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,2-Dibromoethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,2-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,2-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,3,5-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,3-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,3-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 1,4-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 2,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 2-Butanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 2-Hexanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Acetone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Benzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Bromobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Bromochloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Bromodichloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Bromoform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Bromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Carbon Disulfide | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Carbon Tetrachloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Chlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Chlorodibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Chloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Chloroform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Chloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| cis-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| cis-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Dibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Dichlorodifluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Ethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Hexachlorobutadiene | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Isopropylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Methylene Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| mp-Xylene | 1.5U | U,P1 | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |

**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-02 | Collected | 06/18/2024 08:00 |
| Lab Sample ID | 3366027002 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| n-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| n-Propylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| o-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| o-Xylene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| p-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| p-Isopropyltoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| sec-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Styrene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| tert-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Tetrachloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Toluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| trans-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| trans-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Trichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Trichlorofluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |
| Vinyl Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 13:06 | TMP | B |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 99.2% | 81 – 118 | 06/28/2024 13:06 | |
| 4-Bromofluorobenzene | 460-00-4 | 99.6% | 85 – 114 | 06/28/2024 13:06 | |
| Dibromofluoromethane | 1868-53-7 | 91.2% | 80 – 119 | 06/28/2024 13:06 | |
| Toluene-d8 | 2037-26-5 | 100% | 89 – 112 | 06/28/2024 13:06 | |



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**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-03 | Collected | 06/18/2024 08:45 |
| Lab Sample ID | 3366027003 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,1-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,1-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,1-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,2-Dibromoethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,2-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,3-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 2,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 2-Butanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 2-Hexanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Acetone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Benzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Bromobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Bromochloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Bromodichloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Bromoform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Bromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Carbon Disulfide | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Carbon Tetrachloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Chlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Chlorodibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Chloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Chloroform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Chloromethane | 0.34J | J,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Dibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Dichlorodifluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Ethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Hexachlorobutadiene | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Isopropylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Methylene Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| mp-Xylene | 1.5U | U,P1 | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |

**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-03 | Collected | 06/18/2024 08:45 |
| Lab Sample ID | 3366027003 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| n-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| n-Propylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| o-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| o-Xylene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| p-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| p-Isopropyltoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| sec-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Styrene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| tert-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Tetrachloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Toluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Trichloroethene | 11.2 | P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Trichlorofluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |
| Vinyl Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:37 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 103% | 81 – 118 | 06/28/2024 01:37 | |
| 4-Bromofluorobenzene | 460-00-4 | 102% | 85 – 114 | 06/28/2024 01:37 | |
| Dibromofluoromethane | 1868-53-7 | 92.3% | 80 – 119 | 06/28/2024 01:37 | |
| Toluene-d8 | 2037-26-5 | 103% | 89 – 112 | 06/28/2024 01:37 | |



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**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-04 | Collected | 06/18/2024 09:30 |
| Lab Sample ID | 3366027004 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,1-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,1-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,1-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,2-Dibromoethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,2-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,3-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 2,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 2-Butanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 2-Hexanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Acetone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Benzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Bromobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Bromochloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Bromodichloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Bromoform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Bromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Carbon Disulfide | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Carbon Tetrachloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Chlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Chlorodibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Chloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Chloroform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Chloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Dibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Dichlorodifluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Ethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Hexachlorobutadiene | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Isopropylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Methylene Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| mp-Xylene | 1.5U | U,P1 | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |

**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-04 | Collected | 06/18/2024 09:30 |
| Lab Sample ID | 3366027004 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| n-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| n-Propylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| o-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| o-Xylene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| p-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| p-Isopropyltoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| sec-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Styrene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| tert-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Tetrachloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Toluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Trichloroethene | 1.1 | P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Trichlorofluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |
| Vinyl Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 01:58 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 109% | 81 – 118 | 06/28/2024 01:58 | |
| 4-Bromofluorobenzene | 460-00-4 | 97% | 85 – 114 | 06/28/2024 01:58 | |
| Dibromofluoromethane | 1868-53-7 | 98% | 80 – 119 | 06/28/2024 01:58 | |
| Toluene-d8 | 2037-26-5 | 102% | 89 – 112 | 06/28/2024 01:58 | |



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**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-05 | Collected | 06/18/2024 10:15 |
| Lab Sample ID | 3366027005 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,1-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,1-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,1-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,2-Dibromoethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,2-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,3-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 2,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 2-Butanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 2-Hexanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Acetone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Benzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Bromobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Bromochloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Bromodichloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Bromoform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Bromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Carbon Disulfide | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Carbon Tetrachloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Chlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Chlorodibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Chloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Chloroform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Chloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Dibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Dichlorodifluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Ethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Hexachlorobutadiene | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Isopropylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Methylene Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| mp-Xylene | 1.5U | U,P1 | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |

**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-05 | Collected | 06/18/2024 10:15 |
| Lab Sample ID | 3366027005 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| n-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| n-Propylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| o-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| o-Xylene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| p-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| p-Isopropyltoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| sec-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Styrene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| tert-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Tetrachloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Toluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Trichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Trichlorofluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |
| Vinyl Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:18 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 104% | 81 – 118 | 06/28/2024 02:18 | |
| 4-Bromofluorobenzene | 460-00-4 | 98.3% | 85 – 114 | 06/28/2024 02:18 | |
| Dibromofluoromethane | 1868-53-7 | 95.3% | 80 – 119 | 06/28/2024 02:18 | |
| Toluene-d8 | 2037-26-5 | 103% | 89 – 112 | 06/28/2024 02:18 | |



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**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-06 | Collected | 06/18/2024 10:15 |
| Lab Sample ID | 3366027006 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,1-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,1-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,1-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,2-Dibromoethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,2-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,3-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 2,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 2-Butanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 2-Hexanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Acetone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Benzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Bromobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Bromochloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Bromodichloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Bromoform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Bromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Carbon Disulfide | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Carbon Tetrachloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Chlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Chlorodibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Chloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Chloroform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Chloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Dibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Dichlorodifluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Ethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Hexachlorobutadiene | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Isopropylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Methylene Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| mp-Xylene | 1.5U | U,P1 | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |

**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-06 | Collected | 06/18/2024 10:15 |
| Lab Sample ID | 3366027006 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| n-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| n-Propylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| o-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| o-Xylene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| p-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| p-Isopropyltoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| sec-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Styrene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| tert-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Tetrachloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Toluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Trichloroethene | 0.65J | J,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Trichlorofluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |
| Vinyl Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:38 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 110% | 81 – 118 | 06/28/2024 02:38 | |
| 4-Bromofluorobenzene | 460-00-4 | 106% | 85 – 114 | 06/28/2024 02:38 | |
| Dibromofluoromethane | 1868-53-7 | 99.5% | 80 – 119 | 06/28/2024 02:38 | |
| Toluene-d8 | 2037-26-5 | 108% | 89 – 112 | 06/28/2024 02:38 | |



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**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-07 | Collected | 06/18/2024 11:00 |
| Lab Sample ID | 3366027007 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,1-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,1-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,1-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,2-Dibromoethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,2-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,3-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 2,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 2-Butanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 2-Hexanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Acetone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Benzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Bromobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Bromochloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Bromodichloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Bromoform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Bromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Carbon Disulfide | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Carbon Tetrachloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Chlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Chlorodibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Chloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Chloroform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Chloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Dibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Dichlorodifluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Ethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Hexachlorobutadiene | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Isopropylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Methylene Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| mp-Xylene | 1.5U | U,P1 | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |

**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-07 | Collected | 06/18/2024 11:00 |
| Lab Sample ID | 3366027007 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| n-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| n-Propylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| o-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| o-Xylene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| p-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| p-Isopropyltoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| sec-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Styrene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| tert-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Tetrachloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Toluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Trichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Trichlorofluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |
| Vinyl Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 02:59 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 105% | 81 – 118 | 06/28/2024 02:59 | |
| 4-Bromofluorobenzene | 460-00-4 | 90.2% | 85 – 114 | 06/28/2024 02:59 | |
| Dibromofluoromethane | 1868-53-7 | 95.5% | 80 – 119 | 06/28/2024 02:59 | |
| Toluene-d8 | 2037-26-5 | 98.8% | 89 – 112 | 06/28/2024 02:59 | |



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**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-08 | Collected | 06/18/2024 11:40 |
| Lab Sample ID | 3366027008 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,1-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,1-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,1-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,2-Dibromoethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,2-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,3-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 2,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 2-Butanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 2-Hexanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Acetone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Benzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Bromobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Bromochloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Bromodichloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Bromoform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Bromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Carbon Disulfide | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Carbon Tetrachloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Chlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Chlorodibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Chloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Chloroform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Chloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Dibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Dichlorodifluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Ethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Hexachlorobutadiene | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Isopropylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Methylene Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| mp-Xylene | 1.5U | U,P1 | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |

**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-08 | Collected | 06/18/2024 11:40 |
| Lab Sample ID | 3366027008 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| n-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| n-Propylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| o-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| o-Xylene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| p-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| p-Isopropyltoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| sec-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Styrene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| tert-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Tetrachloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Toluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Trichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Trichlorofluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |
| Vinyl Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:19 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 103% | 81 – 118 | 06/28/2024 03:19 | |
| 4-Bromofluorobenzene | 460-00-4 | 103% | 85 – 114 | 06/28/2024 03:19 | |
| Dibromofluoromethane | 1868-53-7 | 94.9% | 80 – 119 | 06/28/2024 03:19 | |
| Toluene-d8 | 2037-26-5 | 102% | 89 – 112 | 06/28/2024 03:19 | |



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**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-09 | Collected | 06/18/2024 11:40 |
| Lab Sample ID | 3366027009 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,1-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,1-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,1-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,2-Dibromoethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,2-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,3-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 2,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 2-Butanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 2-Hexanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Acetone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Benzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Bromobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Bromochloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Bromodichloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Bromoform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Bromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Carbon Disulfide | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Carbon Tetrachloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Chlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Chlorodibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Chloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Chloroform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Chloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Dibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Dichlorodifluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Ethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Hexachlorobutadiene | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Isopropylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Methylene Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| mp-Xylene | 1.5U | U,P1 | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |

**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-09 | Collected | 06/18/2024 11:40 |
| Lab Sample ID | 3366027009 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| n-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| n-Propylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| o-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| o-Xylene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| p-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| p-Isopropyltoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| sec-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Styrene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| tert-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Tetrachloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Toluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Trichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Trichlorofluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |
| Vinyl Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 03:40 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 108% | 81 – 118 | 06/28/2024 03:40 | |
| 4-Bromofluorobenzene | 460-00-4 | 100% | 85 – 114 | 06/28/2024 03:40 | |
| Dibromofluoromethane | 1868-53-7 | 98.5% | 80 – 119 | 06/28/2024 03:40 | |
| Toluene-d8 | 2037-26-5 | 108% | 89 – 112 | 06/28/2024 03:40 | |



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**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-10 | Collected | 06/18/2024 12:30 |
| Lab Sample ID | 3366027010 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,1,1-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,1,2-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,1-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,1-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,1-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,2,3-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,2,3-Trichloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,2,4-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,2,4-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,2-Dibromoethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,2-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,2-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,3,5-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,3-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,3-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 1,4-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 2,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 2-Butanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 2-Hexanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Acetone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Benzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Bromobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Bromochloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Bromodichloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Bromoform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Bromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Carbon Disulfide | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Carbon Tetrachloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Chlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Chlorodibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Chloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Chloroform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Chloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| cis-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| cis-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Dibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Dichlorodifluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Ethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Hexachlorobutadiene | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Isopropylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Methylene Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| mp-Xylene | 1.5U | U,P1 | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |

**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-10 | Collected | 06/18/2024 12:30 |
| Lab Sample ID | 3366027010 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| n-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| n-Propylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| o-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| o-Xylene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| p-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| p-Isopropyltoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| sec-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Styrene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| tert-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Tetrachloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Toluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| trans-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| trans-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Trichloroethene | 0.54J | J,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Trichlorofluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |
| Vinyl Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 17:29 | ILY | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 99.1% | 81 – 118 | 06/27/2024 17:29 | |
| 4-Bromofluorobenzene | 460-00-4 | 97.1% | 85 – 114 | 06/27/2024 17:29 | |
| Dibromofluoromethane | 1868-53-7 | 97.7% | 80 – 119 | 06/27/2024 17:29 | |
| Toluene-d8 | 2037-26-5 | 97.9% | 89 – 112 | 06/27/2024 17:29 | |



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**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-11 | Collected | 06/18/2024 00:00 |
| Lab Sample ID | 3366027011 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,1-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,1-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,1-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U,P1 | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,2-Dibromoethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,2-Dichloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,3-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 2,2-Dichloropropane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 2-Butanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 2-Hexanone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Acetone | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Benzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Bromobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Bromochloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Bromodichloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Bromoform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Bromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Carbon Disulfide | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Carbon Tetrachloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Chlorobenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Chlorodibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Chloroethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Chloroform | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Chloromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Dibromomethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Dichlorodifluoromethane | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Ethylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Hexachlorobutadiene | 3.8U | U,P1 | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Isopropylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Methylene Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| mp-Xylene | 1.5U | U,P1 | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |

**Project** AHH131|HS24061196
**Workorder** 3366027

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061196-11 | Collected | 06/18/2024 00:00 |
| Lab Sample ID | 3366027011 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| n-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| n-Propylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| o-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| o-Xylene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| p-Chlorotoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| p-Isopropyltoluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| sec-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Styrene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| tert-Butylbenzene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Tetrachloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Toluene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Trichloroethene | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Trichlorofluoromethane | 2.8 | P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |
| Vinyl Chloride | 0.75U | U,P1 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:53 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 101% | 81 – 118 | 06/27/2024 21:53 | |
| 4-Bromofluorobenzene | 460-00-4 | 98.9% | 85 – 114 | 06/27/2024 21:53 | |
| Dibromofluoromethane | 1868-53-7 | 89.3% | 80 – 119 | 06/27/2024 21:53 | |
| Toluene-d8 | 2037-26-5 | 103% | 89 – 112 | 06/27/2024 21:53 | |



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**Project** AHH131|HS24061196
**Workorder** 3366027

## Sample - Method Cross Reference Table

| Lab ID | Sample ID | Analysis Method | Preparation Method | Leachate Method |
|---|---|---|---|---|
| 3366027001 | HS24061196-01 | SW846 8260D | N/A | |
| | | SW846 8260D | N/A | |
| 3366027002 | HS24061196-02 | SW846 8260D | N/A | |
| 3366027003 | HS24061196-03 | SW846 8260D | N/A | |
| 3366027004 | HS24061196-04 | SW846 8260D | N/A | |
| 3366027005 | HS24061196-05 | SW846 8260D | N/A | |
| 3366027006 | HS24061196-06 | SW846 8260D | N/A | |
| 3366027007 | HS24061196-07 | SW846 8260D | N/A | |
| 3366027008 | HS24061196-08 | SW846 8260D | N/A | |
| 3366027009 | HS24061196-09 | SW846 8260D | N/A | |
| 3366027010 | HS24061196-10 | SW846 8260D | N/A | |
| 3366027011 | HS24061196-11 | SW846 8260D | N/A | |



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**Project** AHH131|HS24061196
**Workorder** 3366027

# QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS

**QC Batch**

| | | | |
|---|---|---|---|
| QC Batch | 1235282 | Prep Method | N/A |
| Date | N/A | Analysis Method | SW846 8260D |
| Tech. | | | |

**Associated Samples**

3366027010

***Method Blank*** 3845268 (MB) Created on 06/27/2024 11:07 For QC Batch 1235282

*RESULTS*

| Compound | CAS No | | Result | Units | LOQ | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,1-Trichloroethane | 71-55-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,2-Trichloroethane | 79-00-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloroethane | 75-34-3 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloroethene | 75-35-4 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloropropene | 563-58-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,3-Trichlorobenzene | 87-61-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,3-Trichloropropane | 96-18-4 | BLK | 2.5U | ug/L | 5.0 | U |
| 1,2,4-Trichlorobenzene | 120-82-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,4-Trimethylbenzene | 95-63-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | BLK | 2.5U | ug/L | 5.0 | U |
| 1,2-Dibromoethane | 106-93-4 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichlorobenzene | 95-50-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichloroethane | 107-06-2 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichloropropane | 78-87-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3,5-Trimethylbenzene | 108-67-8 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3-Dichlorobenzene | 541-73-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3-Dichloropropane | 142-28-9 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,4-Dichlorobenzene | 106-46-7 | BLK | 0.75U | ug/L | 1.0 | U |
| 2,2-Dichloropropane | 594-20-7 | BLK | 0.75U | ug/L | 1.0 | U |
| 2-Butanone | 78-93-3 | BLK | 3.8U | ug/L | 5.0 | U |
| 2-Hexanone | 591-78-6 | BLK | 3.8U | ug/L | 5.0 | U |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | BLK | 3.8U | ug/L | 5.0 | U |
| Acetone | 67-64-1 | BLK | 3.8U | ug/L | 5.0 | U |
| Benzene | 71-43-2 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromobenzene | 108-86-1 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromochloromethane | 74-97-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromodichloromethane | 75-27-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromoform | 75-25-2 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromomethane | 74-83-9 | BLK | 0.75U | ug/L | 1.0 | U |
| Carbon Disulfide | 75-15-0 | BLK | 0.75U | ug/L | 1.0 | U |
| Carbon Tetrachloride | 56-23-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Chlorobenzene | 108-90-7 | BLK | 0.75U | ug/L | 1.0 | U |
| Chlorodibromomethane | 124-48-1 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloroethane | 75-00-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloroform | 67-66-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloromethane | 74-87-3 | BLK | 0.75U | ug/L | 1.0 | U |
| cis-1,2-Dichloroethene | 156-59-2 | BLK | 0.75U | ug/L | 1.0 | U |



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QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result | Units | LOQ | Qualifiers |
|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 10061-01-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Dibromomethane | 74-95-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Dichlorodifluoromethane | 75-71-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Ethylbenzene | 100-41-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Hexachlorobutadiene | 87-68-3 | BLK | 3.8U | ug/L | 5.0 | U |
| Isopropylbenzene | 98-82-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Methylene Chloride | 75-09-2 | BLK | 0.75U | ug/L | 1.0 | U |
| mp-Xylene | 108383/106423 | BLK | 1.5U | ug/L | 2.0 | U |
| Naphthalene | 91-20-3 | BLK | 0.75U | ug/L | 1.0 | U |
| n-Butylbenzene | 104-51-8 | BLK | 0.75U | ug/L | 1.0 | U |
| n-Propylbenzene | 103-65-1 | BLK | 0.75U | ug/L | 1.0 | U |
| o-Chlorotoluene | 95-49-8 | BLK | 0.75U | ug/L | 1.0 | U |
| o-Xylene | 95-47-6 | BLK | 0.75U | ug/L | 1.0 | U |
| p-Chlorotoluene | 106-43-4 | BLK | 0.75U | ug/L | 1.0 | U |
| p-Isopropyltoluene | 99-87-6 | BLK | 0.75U | ug/L | 1.0 | U |
| sec-Butylbenzene | 135-98-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Styrene | 100-42-5 | BLK | 0.75U | ug/L | 1.0 | U |
| tert-Butylbenzene | 98-06-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Tetrachloroethene | 127-18-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Toluene | 108-88-3 | BLK | 0.75U | ug/L | 1.0 | U |
| trans-1,2-Dichloroethene | 156-60-5 | BLK | 0.75U | ug/L | 1.0 | U |
| trans-1,3-Dichloropropene | 10061-02-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Trichloroethene | 79-01-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Trichlorofluoromethane | 75-69-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Vinyl Chloride | 75-01-4 | BLK | 0.75U | ug/L | 1.0 | U |

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | BLK | 29.30 | 30 | 97.6 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | BLK | 29.10 | 30 | 97 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | BLK | 29.10 | 30 | 96.9 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | BLK | 29.40 | 30 | 98.2 | 89 - 112 | |

***Lab Control Standard*** 3845269 (LCS) Created on 06/27/2024 11:07 For QC Batch 1235282

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | LCS | 23.30 | | 20 | 116 | 78 - 124 | | |
| 1,1,1-Trichloroethane | 71-55-6 | LCS | 21.80 | | 20 | 109 | 74 - 131 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | LCS | 22.90 | | 20 | 115 | 71 - 121 | | |
| 1,1,2-Trichloroethane | 79-00-5 | LCS | 22.40 | | 20 | 112 | 80 - 119 | | |
| 1,1-Dichloroethane | 75-34-3 | LCS | 19.90 | | 20 | 99.7 | 77 - 125 | | |
| 1,1-Dichloroethene | 75-35-4 | LCS | 21.20 | | 20 | 106 | 71 - 131 | | |
| 1,1-Dichloropropene | 563-58-6 | LCS | 21.30 | | 20 | 106 | 79 - 125 | | |



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**Project** AHH131|HS24061196
**Workorder** 3366027

QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | 87-61-6 | LCS | 23.40 | | 20 | 117 | 69 - 129 | | |
| 1,2,3-Trichloropropane | 96-18-4 | LCS | 21.30 | | 20 | 107 | 73 - 122 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | LCS | 25.20 | | 20 | 126 | 69 - 130 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | LCS | 23.50 | | 20 | 118 | 76 - 124 | | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | LCS | 20.60 | | 20 | 103 | 62 - 128 | | |
| 1,2-Dibromoethane | 106-93-4 | LCS | 22 | | 20 | 110 | 77 - 121 | | |
| 1,2-Dichlorobenzene | 95-50-1 | LCS | 23.10 | | 20 | 116 | 80 - 119 | | |
| 1,2-Dichloroethane | 107-06-2 | LCS | 21 | | 20 | 105 | 73 - 128 | | |
| 1,2-Dichloropropane | 78-87-5 | LCS | 22.10 | | 20 | 110 | 78 - 122 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | LCS | 23.50 | | 20 | 118 | 75 - 124 | | |
| 1,3-Dichlorobenzene | 541-73-1 | LCS | 22.80 | | 20 | 114 | 80 - 119 | | |
| 1,3-Dichloropropane | 142-28-9 | LCS | 22.60 | | 20 | 113 | 80 - 119 | | |
| 1,4-Dichlorobenzene | 106-46-7 | LCS | 22.70 | | 20 | 113 | 79 - 118 | | |
| 2,2-Dichloropropane | 594-20-7 | LCS | 23.20 | | 20 | 116 | 60 - 139 | | |
| 2-Butanone | 78-93-3 | LCS | 110 | | 100 | 110 | 56 - 143 | | |
| 2-Hexanone | 591-78-6 | LCS | 102 | | 100 | 102 | 57 - 139 | | |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | LCS | 103 | | 100 | 103 | 67 - 130 | | |
| Acetone | 67-64-1 | LCS | 121 | | 100 | 121 | 39 - 160 | | |
| Benzene | 71-43-2 | LCS | 21.70 | | 20 | 108 | 79 - 120 | | |
| Bromobenzene | 108-86-1 | LCS | 22.20 | | 20 | 111 | 80 - 120 | | |
| Bromochloromethane | 74-97-5 | LCS | 22.70 | | 20 | 114 | 78 - 123 | | |
| Bromodichloromethane | 75-27-4 | LCS | 22.10 | | 20 | 111 | 79 - 125 | | |
| Bromoform | 75-25-2 | LCS | 19.90 | | 20 | 99.7 | 66 - 130 | | |
| Bromomethane | 74-83-9 | LCS | 19.80 | | 20 | 99 | 53 - 141 | | |
| Carbon Disulfide | 75-15-0 | LCS | 21.60 | | 20 | 108 | 64 - 133 | | |
| Carbon Tetrachloride | 56-23-5 | LCS | 19.10 | | 20 | 95.4 | 72 - 136 | | |
| Chlorobenzene | 108-90-7 | LCS | 23.10 | | 20 | 115 | 82 - 118 | | |
| Chlorodibromomethane | 124-48-1 | LCS | 20.30 | | 20 | 101 | 74 - 126 | | |
| Chloroethane | 75-00-3 | LCS | 20.60 | | 20 | 103 | 60 - 138 | | |
| Chloroform | 67-66-3 | LCS | 21.10 | | 20 | 106 | 79 - 124 | | |
| Chloromethane | 74-87-3 | LCS | 19.10 | | 20 | 95.7 | 50 - 139 | | |
| cis-1,2-Dichloroethene | 156-59-2 | LCS | 22.20 | | 20 | 111 | 78 - 123 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | LCS | 20.50 | | 20 | 103 | 75 - 124 | | |
| Dibromomethane | 74-95-3 | LCS | 21.60 | | 20 | 108 | 79 - 123 | | |
| Dichlorodifluoromethane | 75-71-8 | LCS | 18.30 | | 20 | 91.6 | 32 - 152 | | |
| Ethylbenzene | 100-41-4 | LCS | 22.40 | | 20 | 112 | 79 - 121 | | |
| Hexachlorobutadiene | 87-68-3 | LCS | 24.20 | | 20 | 121 | 66 - 134 | | |
| Isopropylbenzene | 98-82-8 | LCS | 23.90 | | 20 | 120 | 72 - 131 | | |
| Methylene Chloride | 75-09-2 | LCS | 21.70 | | 20 | 109 | 74 - 124 | | |
| mp-Xylene | 108383/106423 | LCS | 46.30 | | 40 | 116 | 80 - 121 | | |
| Naphthalene | 91-20-3 | LCS | 21.60 | | 20 | 108 | 61 - 128 | | |
| n-Butylbenzene | 104-51-8 | LCS | 23.50 | | 20 | 117 | 75 - 128 | | |
| n-Propylbenzene | 103-65-1 | LCS | 22.60 | | 20 | 113 | 76 - 126 | | |
| o-Chlorotoluene | 95-49-8 | LCS | 23.10 | | 20 | 116 | 79 - 122 | | |
| o-Xylene | 95-47-6 | LCS | 23.40 | | 20 | 117 | 78 - 122 | | |
| p-Chlorotoluene | 106-43-4 | LCS | 23.10 | | 20 | 116 | 78 - 122 | | |
| p-Isopropyltoluene | 99-87-6 | LCS | 23.20 | | 20 | 116 | 77 - 127 | | |



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## QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | 135-98-8 | LCS | 23.30 | | 20 | 116 | 77 - 126 | | |
| Styrene | 100-42-5 | LCS | 22.20 | | 20 | 111 | 78 - 123 | | |
| tert-Butylbenzene | 98-06-6 | LCS | 22.50 | | 20 | 113 | 78 - 124 | | |
| Tetrachloroethene | 127-18-4 | LCS | 21.50 | | 20 | 107 | 74 - 129 | | |
| Toluene | 108-88-3 | LCS | 22.20 | | 20 | 111 | 80 - 121 | | |
| trans-1,2-Dichloroethene | 156-60-5 | LCS | 21.70 | | 20 | 109 | 75 - 124 | | |
| trans-1,3-Dichloropropene | 10061-02-6 | LCS | 21.20 | | 20 | 106 | 73 - 127 | | |
| Trichloroethene | 79-01-6 | LCS | 20.70 | | 20 | 103 | 79 - 123 | | |
| Trichlorofluoromethane | 75-69-4 | LCS | 18.90 | | 20 | 94.4 | 65 - 141 | | |
| Vinyl Chloride | 75-01-4 | LCS | 20.60 | | 20 | 103 | 58 - 137 | | |

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | LCS | 29.40 | 30 | 98.2 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | LCS | 29.40 | 30 | 98.2 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | LCS | 29 | 30 | 96.8 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | LCS | 30.10 | 30 | 100 | 89 - 112 | |

***Matrix Spike*** 3845270 (MS) 3366027010 For QC Batch 1235282

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

***Matrix Spike Duplicate*** 3845271 (MSD) 3366027010 For QC Batch 1235282

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | MS | 23.80 | 0 | 20 | 119 | 78 - 124 | | |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | MSD | 22.40 | 0 | 20 | 112 | 78 - 124 | RPD 6.18 (Max-30) | |
| 1,1,1-Trichloroethane | 71-55-6 | MS | 24.70 | 0 | 20 | 123 | 74 - 131 | | |
| 1,1,1-Trichloroethane | 71-55-6 | MSD | 23.20 | 0 | 20 | 116 | 74 - 131 | RPD 6.07 (Max-30) | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | MS | 23 | 0 | 20 | 115 | 71 - 121 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | MSD | 21 | 0 | 20 | 105 | 71 - 121 | RPD 9.25 (Max-30) | |
| 1,1,2-Trichloroethane | 79-00-5 | MS | 22.40 | 0 | 20 | 112 | 80 - 119 | | |
| 1,1,2-Trichloroethane | 79-00-5 | MSD | 21.30 | 0 | 20 | 107 | 80 - 119 | RPD 4.95 (Max-30) | |
| 1,1-Dichloroethane | 75-34-3 | MS | 21.30 | 0 | 20 | 107 | 77 - 125 | | |
| 1,1-Dichloroethane | 75-34-3 | MSD | 19.90 | 0 | 20 | 99.4 | 77 - 125 | RPD 7.06 (Max-30) | |
| 1,1-Dichloroethene | 75-35-4 | MS | 24.30 | 0 | 20 | 121 | 71 - 131 | | |
| 1,1-Dichloroethene | 75-35-4 | MSD | 22.40 | 0 | 20 | 112 | 71 - 131 | RPD 8.30 (Max-30) | |
| 1,1-Dichloropropene | 563-58-6 | MS | 23.70 | 0 | 20 | 119 | 79 - 125 | | |
| 1,1-Dichloropropene | 563-58-6 | MSD | 21.60 | 0 | 20 | 108 | 79 - 125 | RPD 9.24 (Max-30) | |
| 1,2,3-Trichlorobenzene | 87-61-6 | MS | 22 | 0 | 20 | 110 | 69 - 129 | | |
| 1,2,3-Trichlorobenzene | 87-61-6 | MSD | 19.70 | 0 | 20 | 98.7 | 69 - 129 | RPD 10.70 (Max-30) | |
| 1,2,3-Trichloropropane | 96-18-4 | MS | 22.50 | 0 | 20 | 113 | 73 - 122 | | |

QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | 96-18-4 | MSD | 20.80 | 0 | 20 | 104 | 73 - 122 | RPD 8.10 (Max-30) | |
| 1,2,4-Trichlorobenzene | 120-82-1 | MS | 24.30 | 0 | 20 | 121 | 69 - 130 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | MSD | 22.20 | 0 | 20 | 111 | 69 - 130 | RPD 8.86 (Max-30) | |
| 1,2,4-Trimethylbenzene | 95-63-6 | MS | 24.20 | 0 | 20 | 121 | 76 - 124 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | MSD | 21.30 | 0 | 20 | 106 | 76 - 124 | RPD 13 (Max-30) | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | MS | 20.20 | 0 | 20 | 101 | 62 - 128 | | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | MSD | 19.10 | 0 | 20 | 95.4 | 62 - 128 | RPD 5.76 (Max-30) | |
| 1,2-Dibromoethane | 106-93-4 | MS | 22.30 | 0 | 20 | 111 | 77 - 121 | | |
| 1,2-Dibromoethane | 106-93-4 | MSD | 21.10 | 0 | 20 | 106 | 77 - 121 | RPD 5.32 (Max-30) | |
| 1,2-Dichlorobenzene | 95-50-1 | MS | 23 | 0 | 20 | 115 | 80 - 119 | | |
| 1,2-Dichlorobenzene | 95-50-1 | MSD | 20.30 | 0 | 20 | 102 | 80 - 119 | RPD 12.20 (Max-30) | |
| 1,2-Dichloroethane | 107-06-2 | MS | 22.80 | 0 | 20 | 114 | 73 - 128 | | |
| 1,2-Dichloroethane | 107-06-2 | MSD | 21.40 | 0 | 20 | 107 | 73 - 128 | RPD 5.99 (Max-30) | |
| 1,2-Dichloropropane | 78-87-5 | MS | 23.40 | 0 | 20 | 117 | 78 - 122 | | |
| 1,2-Dichloropropane | 78-87-5 | MSD | 21.60 | 0 | 20 | 108 | 78 - 122 | RPD 8.03 (Max-30) | |
| 1,3,5-Trimethylbenzene | 108-67-8 | MS | 24.30 | 0 | 20 | 121 | 75 - 124 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | MSD | 21.60 | 0 | 20 | 108 | 75 - 124 | RPD 11.80 (Max-30) | |
| 1,3-Dichlorobenzene | 541-73-1 | MS | 22.90 | 0 | 20 | 115 | 80 - 119 | | |
| 1,3-Dichlorobenzene | 541-73-1 | MSD | 20.30 | 0 | 20 | 102 | 80 - 119 | RPD 12 (Max-30) | |
| 1,3-Dichloropropane | 142-28-9 | MS | 23.10 | 0 | 20 | 115 | 80 - 119 | | |
| 1,3-Dichloropropane | 142-28-9 | MSD | 21.60 | 0 | 20 | 108 | 80 - 119 | RPD 6.58 (Max-30) | |
| 1,4-Dichlorobenzene | 106-46-7 | MS | 22.40 | 0 | 20 | 112 | 79 - 118 | | |
| 1,4-Dichlorobenzene | 106-46-7 | MSD | 19.90 | 0 | 20 | 99.4 | 79 - 118 | RPD 11.80 (Max-30) | |
| 2,2-Dichloropropane | 594-20-7 | MS | 22.50 | 0 | 20 | 112 | 60 - 139 | | |
| 2,2-Dichloropropane | 594-20-7 | MSD | 20 | 0 | 20 | 99.9 | 60 - 139 | RPD 11.70 (Max-30) | |
| 2-Butanone | 78-93-3 | MS | 104 | 0 | 100 | 104 | 56 - 143 | | |
| 2-Butanone | 78-93-3 | MSD | 101 | 0 | 100 | 101 | 56 - 143 | RPD 2.82 (Max-30) | |
| 2-Hexanone | 591-78-6 | MS | 100 | 0 | 100 | 100 | 57 - 139 | | |
| 2-Hexanone | 591-78-6 | MSD | 92.40 | 0 | 100 | 92.4 | 57 - 139 | RPD 8 (Max-30) | |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | MS | 102 | 0 | 100 | 102 | 67 - 130 | | |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | MSD | 95.80 | 0 | 100 | 95.8 | 67 - 130 | RPD 6.06 (Max-30) | |
| Acetone | 67-64-1 | MS | 108 | 0 | 100 | 108 | 39 - 160 | | |
| Acetone | 67-64-1 | MSD | 103 | 0 | 100 | 103 | 39 - 160 | RPD 4.90 (Max-30) | |
| Benzene | 71-43-2 | MS | 23.40 | 0 | 20 | 117 | 79 - 120 | | |
| Benzene | 71-43-2 | MSD | 21.40 | 0 | 20 | 107 | 79 - 120 | RPD 8.71 (Max-30) | |
| Bromobenzene | 108-86-1 | MS | 22.80 | 0 | 20 | 114 | 80 - 120 | | |
| Bromobenzene | 108-86-1 | MSD | 20.30 | 0 | 20 | 101 | 80 - 120 | RPD 11.80 (Max-30) | |
| Bromochloromethane | 74-97-5 | MS | 23.10 | 0 | 20 | 116 | 78 - 123 | | |
| Bromochloromethane | 74-97-5 | MSD | 22.80 | 0 | 20 | 114 | 78 - 123 | RPD 1.52 (Max-30) | |
| Bromodichloromethane | 75-27-4 | MS | 23.50 | 0 | 20 | 117 | 79 - 125 | | |
| Bromodichloromethane | 75-27-4 | MSD | 22.40 | 0 | 20 | 112 | 79 - 125 | RPD 4.51 (Max-30) | |
| Bromoform | 75-25-2 | MS | 20.20 | 0 | 20 | 101 | 66 - 130 | | |
| Bromoform | 75-25-2 | MSD | 18.90 | 0 | 20 | 94.4 | 66 - 130 | RPD 6.94 (Max-30) | |
| Bromomethane | 74-83-9 | MS | 22.30 | 0 | 20 | 111 | 53 - 141 | | |
| Bromomethane | 74-83-9 | MSD | 20.70 | 0 | 20 | 104 | 53 - 141 | RPD 7.40 (Max-30) | |
| Carbon Disulfide | 75-15-0 | MS | 23 | 0 | 20 | 115 | 64 - 133 | | |
| Carbon Disulfide | 75-15-0 | MSD | 20.90 | 0 | 20 | 104 | 64 - 133 | RPD 9.82 (Max-30) | |
| Carbon Tetrachloride | 56-23-5 | MS | 22.50 | 0 | 20 | 112 | 72 - 136 | | |
| Carbon Tetrachloride | 56-23-5 | MSD | 19.90 | 0 | 20 | 99.5 | 72 - 136 | RPD 12.10 (Max-30) | |

QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 108-90-7 | MS | 23.10 | 0 | 20 | 115 | 82 - 118 | | |
| Chlorobenzene | 108-90-7 | MSD | 21.30 | 0 | 20 | 106 | 82 - 118 | RPD 8.14 (Max-30) | |
| Chlorodibromomethane | 124-48-1 | MS | 20.40 | 0 | 20 | 102 | 74 - 126 | | |
| Chlorodibromomethane | 124-48-1 | MSD | 19.20 | 0 | 20 | 95.8 | 74 - 126 | RPD 6.38 (Max-30) | |
| Chloroethane | 75-00-3 | MS | 23.80 | 0 | 20 | 119 | 60 - 138 | | |
| Chloroethane | 75-00-3 | MSD | 21 | 0 | 20 | 105 | 60 - 138 | RPD 12.70 (Max-30) | |
| Chloroform | 67-66-3 | MS | 22.40 | 0 | 20 | 112 | 79 - 124 | | |
| Chloroform | 67-66-3 | MSD | 20.80 | 0 | 20 | 104 | 79 - 124 | RPD 7.35 (Max-30) | |
| Chloromethane | 74-87-3 | MS | 21.20 | 0.33 | 20 | 104 | 50 - 139 | | |
| Chloromethane | 74-87-3 | MSD | 19.30 | 0.33 | 20 | 95.1 | 50 - 139 | RPD 8.96 (Max-30) | |
| cis-1,2-Dichloroethene | 156-59-2 | MS | 23.70 | 0 | 20 | 118 | 78 - 123 | | |
| cis-1,2-Dichloroethene | 156-59-2 | MSD | 22.40 | 0 | 20 | 112 | 78 - 123 | RPD 5.63 (Max-30) | |
| cis-1,3-Dichloropropene | 10061-01-5 | MS | 20.30 | 0 | 20 | 102 | 75 - 124 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | MSD | 19 | 0 | 20 | 94.9 | 75 - 124 | RPD 6.92 (Max-30) | |
| Dibromomethane | 74-95-3 | MS | 22.90 | 0 | 20 | 114 | 79 - 123 | | |
| Dibromomethane | 74-95-3 | MSD | 22.10 | 0 | 20 | 110 | 79 - 123 | RPD 3.68 (Max-30) | |
| Dichlorodifluoromethane | 75-71-8 | MS | 22.40 | 0 | 20 | 112 | 32 - 152 | | |
| Dichlorodifluoromethane | 75-71-8 | MSD | 19.50 | 0 | 20 | 97.4 | 32 - 152 | RPD 13.70 (Max-30) | |
| Ethylbenzene | 100-41-4 | MS | 23.60 | 0 | 20 | 118 | 79 - 121 | | |
| Ethylbenzene | 100-41-4 | MSD | 21.20 | 0 | 20 | 106 | 79 - 121 | RPD 11.10 (Max-30) | |
| Hexachlorobutadiene | 87-68-3 | MS | 23 | 0 | 20 | 115 | 66 - 134 | | |
| Hexachlorobutadiene | 87-68-3 | MSD | 20.40 | 0 | 20 | 102 | 66 - 134 | RPD 12 (Max-30) | |
| Isopropylbenzene | 98-82-8 | MS | 25.10 | 0 | 20 | 125 | 72 - 131 | | |
| Isopropylbenzene | 98-82-8 | MSD | 21.90 | 0 | 20 | 110 | 72 - 131 | RPD 13.40 (Max-30) | |
| Methylene Chloride | 75-09-2 | MS | 23.10 | 0 | 20 | 116 | 74 - 124 | | |
| Methylene Chloride | 75-09-2 | MSD | 22 | 0 | 20 | 110 | 74 - 124 | RPD 5.10 (Max-30) | |
| mp-Xylene | 108383/106423 | MS | 47.50 | 0 | 40 | 119 | 80 - 121 | | |
| mp-Xylene | 108383/106423 | MSD | 43.40 | 0 | 40 | 109 | 80 - 121 | RPD 8.91 (Max-30) | |
| Naphthalene | 91-20-3 | MS | 20.90 | 0 | 20 | 104 | 61 - 128 | | |
| Naphthalene | 91-20-3 | MSD | 19.10 | 0 | 20 | 95.3 | 61 - 128 | RPD 9.09 (Max-30) | |
| n-Butylbenzene | 104-51-8 | MS | 23.30 | 0 | 20 | 116 | 75 - 128 | | |
| n-Butylbenzene | 104-51-8 | MSD | 20.70 | 0 | 20 | 104 | 75 - 128 | RPD 11.70 (Max-30) | |
| n-Propylbenzene | 103-65-1 | MS | 22.90 | 0 | 20 | 115 | 76 - 126 | | |
| n-Propylbenzene | 103-65-1 | MSD | 20 | 0 | 20 | 99.8 | 76 - 126 | RPD 13.90 (Max-30) | |
| o-Chlorotoluene | 95-49-8 | MS | 23.80 | 0 | 20 | 119 | 79 - 122 | | |
| o-Chlorotoluene | 95-49-8 | MSD | 20.90 | 0 | 20 | 105 | 79 - 122 | RPD 12.70 (Max-30) | |
| o-Xylene | 95-47-6 | MS | 23.70 | 0 | 20 | 119 | 78 - 122 | | |
| o-Xylene | 95-47-6 | MSD | 21.50 | 0 | 20 | 108 | 78 - 122 | RPD 9.63 (Max-30) | |
| p-Chlorotoluene | 106-43-4 | MS | 23.10 | 0 | 20 | 116 | 78 - 122 | | |
| p-Chlorotoluene | 106-43-4 | MSD | 20.50 | 0 | 20 | 103 | 78 - 122 | RPD 11.90 (Max-30) | |
| p-Isopropyltoluene | 99-87-6 | MS | 23.70 | 0 | 20 | 119 | 77 - 127 | | |
| p-Isopropyltoluene | 99-87-6 | MSD | 20.90 | 0 | 20 | 105 | 77 - 127 | RPD 12.50 (Max-30) | |
| sec-Butylbenzene | 135-98-8 | MS | 24.10 | 0 | 20 | 121 | 77 - 126 | | |
| sec-Butylbenzene | 135-98-8 | MSD | 21.20 | 0 | 20 | 106 | 77 - 126 | RPD 13 (Max-30) | |
| Styrene | 100-42-5 | MS | 21.80 | 0 | 20 | 109 | 78 - 123 | | |
| Styrene | 100-42-5 | MSD | 19.20 | 0 | 20 | 96.2 | 78 - 123 | RPD 12.50 (Max-30) | |
| tert-Butylbenzene | 98-06-6 | MS | 24.10 | 0 | 20 | 121 | 78 - 124 | | |
| tert-Butylbenzene | 98-06-6 | MSD | 20.80 | 0 | 20 | 104 | 78 - 124 | RPD 14.70 (Max-30) | |

## QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 127-18-4 | MS | 21.60 | 0 | 20 | 108 | 74 - 129 | | |
| Tetrachloroethene | 127-18-4 | MSD | 19.90 | 0 | 20 | 99.4 | 74 - 129 | RPD 8.06 (Max-30) | |
| Toluene | 108-88-3 | MS | 23 | 0 | 20 | 115 | 80 - 121 | | |
| Toluene | 108-88-3 | MSD | 20.70 | 0 | 20 | 104 | 80 - 121 | RPD 10.50 (Max-30) | |
| trans-1,2-Dichloroethene | 156-60-5 | MS | 23.70 | 0 | 20 | 118 | 75 - 124 | | |
| trans-1,2-Dichloroethene | 156-60-5 | MSD | 21.50 | 0 | 20 | 108 | 75 - 124 | RPD 9.58 (Max-30) | |
| trans-1,3-Dichloropropene | 10061-02-6 | MS | 21.20 | 0 | 20 | 106 | 73 - 127 | | |
| trans-1,3-Dichloropropene | 10061-02-6 | MSD | 19.70 | 0 | 20 | 98.5 | 73 - 127 | RPD 7.23 (Max-30) | |
| Trichloroethene | 79-01-6 | MS | 23.20 | 0.54 | 20 | 113 | 79 - 123 | | |
| Trichloroethene | 79-01-6 | MSD | 21.20 | 0.54 | 20 | 103 | 79 - 123 | RPD 8.94 (Max-30) | |
| Trichlorofluoromethane | 75-69-4 | MS | 22.50 | 0 | 20 | 113 | 65 - 141 | | |
| Trichlorofluoromethane | 75-69-4 | MSD | 20.30 | 0 | 20 | 102 | 65 - 141 | RPD 10.30 (Max-30) | |
| Vinyl Chloride | 75-01-4 | MS | 22.60 | 0 | 20 | 113 | 58 - 137 | | |
| Vinyl Chloride | 75-01-4 | MSD | 20.10 | 0 | 20 | 101 | 58 - 137 | RPD 11.70 (Max-30) | |

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | MS | 31.70 | 30 | 106 | 81 - 118 | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | MSD | 31.20 | 30 | 104 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | MS | 30.90 | 30 | 103 | 85 - 114 | |
| 4-Bromofluorobenzene | 460-00-4 | MSD | 28.80 | 30 | 95.8 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | MS | 30.60 | 30 | 102 | 80 - 119 | |
| Dibromofluoromethane | 1868-53-7 | MSD | 30.70 | 30 | 102 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | MS | 30.20 | 30 | 101 | 89 - 112 | |
| Toluene-d8 | 2037-26-5 | MSD | 30.20 | 30 | 101 | 89 - 112 | |

**QC Batch**

| | | | |
|---|---|---|---|
| QC Batch | 1235666 | Prep Method | N/A |
| Date | N/A | Analysis Method | SW846 8260D |
| Tech. | | | |

**Associated Samples**

| | | | |
|---|---|---|---|
| 3366027011 | 3366027003 | 3366027004 | 3366027005 |
| 3366027006 | 3366027007 | 3366027008 | 3366027009 |
| 3366027001 | | | |

***Matrix Spike*** 3845610 (MS) 3366036002 (non-Project Sample) For QC Batch 1235666

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

***Matrix Spike Duplicate*** 3845611 (MSD) 3366036002 (non-Project Sample) For QC Batch 1235666

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | MS | 20.60 | 0 | 20 | 103 | 78 - 124 | | |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | MSD | 19.60 | 0 | 20 | 98.2 | 78 - 124 | RPD 4.86 (Max-30) | |



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QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | MS | 23.70 | 0 | 20 | 118 | 74 - 131 | | |
| 1,1,1-Trichloroethane | 71-55-6 | MSD | 22.10 | 0 | 20 | 111 | 74 - 131 | RPD 6.85 (Max-30) | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | MS | 23.50 | 0 | 20 | 118 | 71 - 121 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | MSD | 22.90 | 0 | 20 | 114 | 71 - 121 | RPD 2.92 (Max-30) | |
| 1,1,2-Trichloroethane | 79-00-5 | MS | 22.40 | 0 | 20 | 112 | 80 - 119 | | |
| 1,1,2-Trichloroethane | 79-00-5 | MSD | 21 | 0 | 20 | 105 | 80 - 119 | RPD 6.54 (Max-30) | |
| 1,1-Dichloroethane | 75-34-3 | MS | 23 | 0 | 20 | 115 | 77 - 125 | | |
| 1,1-Dichloroethane | 75-34-3 | MSD | 21.40 | 0 | 20 | 107 | 77 - 125 | RPD 7.46 (Max-30) | |
| 1,1-Dichloroethene | 75-35-4 | MS | 23.30 | 0 | 20 | 116 | 71 - 131 | | |
| 1,1-Dichloroethene | 75-35-4 | MSD | 21.50 | 0 | 20 | 107 | 71 - 131 | RPD 8.09 (Max-30) | |
| 1,1-Dichloropropene | 563-58-6 | MS | 23.10 | 0 | 20 | 116 | 79 - 125 | | |
| 1,1-Dichloropropene | 563-58-6 | MSD | 21.10 | 0 | 20 | 106 | 79 - 125 | RPD 8.94 (Max-30) | |
| 1,2,3-Trichlorobenzene | 87-61-6 | MS | 19.10 | 0 | 20 | 95.6 | 69 - 129 | | |
| 1,2,3-Trichlorobenzene | 87-61-6 | MSD | 18.70 | 0 | 20 | 93.3 | 69 - 129 | RPD 2.42 (Max-30) | |
| 1,2,3-Trichloropropane | 96-18-4 | MS | 22.80 | 0 | 20 | 114 | 73 - 122 | | |
| 1,2,3-Trichloropropane | 96-18-4 | MSD | 22.60 | 0 | 20 | 113 | 73 - 122 | RPD 1.14 (Max-30) | |
| 1,2,4-Trichlorobenzene | 120-82-1 | MS | 23.40 | 0 | 20 | 117 | 69 - 130 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | MSD | 22.90 | 0 | 20 | 114 | 69 - 130 | RPD 2.38 (Max-30) | |
| 1,2,4-Trimethylbenzene | 95-63-6 | MS | 21.90 | 0 | 20 | 110 | 76 - 124 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | MSD | 21.40 | 0 | 20 | 107 | 76 - 124 | RPD 2.34 (Max-30) | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | MS | 19 | 0 | 20 | 95.2 | 62 - 128 | | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | MSD | 17.70 | 0 | 20 | 88.6 | 62 - 128 | RPD 7.16 (Max-30) | |
| 1,2-Dibromoethane | 106-93-4 | MS | 20.20 | 0 | 20 | 101 | 77 - 121 | | |
| 1,2-Dibromoethane | 106-93-4 | MSD | 19.30 | 0 | 20 | 96.4 | 77 - 121 | RPD 4.64 (Max-30) | |
| 1,2-Dichlorobenzene | 95-50-1 | MS | 23.20 | 0 | 20 | 116 | 80 - 119 | | |
| 1,2-Dichlorobenzene | 95-50-1 | MSD | 22.30 | 0 | 20 | 111 | 80 - 119 | RPD 3.86 (Max-30) | |
| 1,2-Dichloroethane | 107-06-2 | MS | 21.90 | 0 | 20 | 109 | 73 - 128 | | |
| 1,2-Dichloroethane | 107-06-2 | MSD | 20.50 | 0 | 20 | 103 | 73 - 128 | RPD 6.41 (Max-30) | |
| 1,2-Dichloropropane | 78-87-5 | MS | 22.60 | 0 | 20 | 113 | 78 - 122 | | |
| 1,2-Dichloropropane | 78-87-5 | MSD | 21.20 | 0 | 20 | 106 | 78 - 122 | RPD 6.41 (Max-30) | |
| 1,3,5-Trimethylbenzene | 108-67-8 | MS | 23.80 | 0 | 20 | 119 | 75 - 124 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | MSD | 22.90 | 0 | 20 | 115 | 75 - 124 | RPD 3.56 (Max-30) | |
| 1,3-Dichlorobenzene | 541-73-1 | MS | 23.30 | 0 | 20 | 117 | 80 - 119 | | |
| 1,3-Dichlorobenzene | 541-73-1 | MSD | 22.50 | 0 | 20 | 112 | 80 - 119 | RPD 3.69 (Max-30) | |
| 1,3-Dichloropropane | 142-28-9 | MS | 22.80 | 0 | 20 | 114 | 80 - 119 | | |
| 1,3-Dichloropropane | 142-28-9 | MSD | 22 | 0 | 20 | 110 | 80 - 119 | RPD 3.92 (Max-30) | |
| 1,4-Dichlorobenzene | 106-46-7 | MS | 23.10 | 0 | 20 | 116 | 79 - 118 | | |
| 1,4-Dichlorobenzene | 106-46-7 | MSD | 22.20 | 0 | 20 | 111 | 79 - 118 | RPD 3.96 (Max-30) | |
| 2,2-Dichloropropane | 594-20-7 | MS | 21.60 | 0 | 20 | 108 | 60 - 139 | | |
| 2,2-Dichloropropane | 594-20-7 | MSD | 19.70 | 0 | 20 | 98.6 | 60 - 139 | RPD 9.35 (Max-30) | |
| 2-Butanone | 78-93-3 | MS | 102 | 0 | 100 | 102 | 56 - 143 | | |
| 2-Butanone | 78-93-3 | MSD | 97.40 | 0 | 100 | 97.4 | 56 - 143 | RPD 4.92 (Max-30) | |
| 2-Hexanone | 591-78-6 | MS | 103 | 0 | 100 | 103 | 57 - 139 | | |
| 2-Hexanone | 591-78-6 | MSD | 98.80 | 0 | 100 | 98.8 | 57 - 139 | RPD 4.62 (Max-30) | |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | MS | 106 | 0 | 100 | 106 | 67 - 130 | | |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | MSD | 102 | 0 | 100 | 102 | 67 - 130 | RPD 4.01 (Max-30) | |
| Acetone | 67-64-1 | MS | 97.10 | 0 | 100 | 97.1 | 39 - 160 | | |
| Acetone | 67-64-1 | MSD | 93 | 0 | 100 | 93 | 39 - 160 | RPD 4.28 (Max-30) | |
| Benzene | 71-43-2 | MS | 21.80 | 0 | 20 | 109 | 79 - 120 | | |



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QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | MSD | 20.50 | 0 | 20 | 102 | 79 - 120 | RPD 6.31 (Max-30) | |
| Bromobenzene | 108-86-1 | MS | 23.20 | 0 | 20 | 116 | 80 - 120 | | |
| Bromobenzene | 108-86-1 | MSD | 22.70 | 0 | 20 | 113 | 80 - 120 | RPD 2.17 (Max-30) | |
| Bromochloromethane | 74-97-5 | MS | 22.10 | 0 | 20 | 110 | 78 - 123 | | |
| Bromochloromethane | 74-97-5 | MSD | 21.80 | 0 | 20 | 109 | 78 - 123 | RPD 1.46 (Max-30) | |
| Bromodichloromethane | 75-27-4 | MS | 20.70 | 0 | 20 | 103 | 79 - 125 | | |
| Bromodichloromethane | 75-27-4 | MSD | 18.90 | 0 | 20 | 94.6 | 79 - 125 | RPD 8.78 (Max-30) | |
| Bromoform | 75-25-2 | MS | 18.40 | 0 | 20 | 91.9 | 66 - 130 | | |
| Bromoform | 75-25-2 | MSD | 17.90 | 0 | 20 | 89.6 | 66 - 130 | RPD 2.55 (Max-30) | |
| Bromomethane | 74-83-9 | MS | 21.60 | 0 | 20 | 108 | 53 - 141 | | |
| Bromomethane | 74-83-9 | MSD | 19.70 | 0 | 20 | 98.7 | 53 - 141 | RPD 8.99 (Max-30) | |
| Carbon Disulfide | 75-15-0 | MS | 20.80 | 0 | 20 | 104 | 64 - 133 | | |
| Carbon Disulfide | 75-15-0 | MSD | 19.50 | 0 | 20 | 97.4 | 64 - 133 | RPD 6.49 (Max-30) | |
| Carbon Tetrachloride | 56-23-5 | MS | 19.80 | 0 | 20 | 98.9 | 72 - 136 | | |
| Carbon Tetrachloride | 56-23-5 | MSD | 18.30 | 0 | 20 | 91.3 | 72 - 136 | RPD 8.04 (Max-30) | |
| Chlorobenzene | 108-90-7 | MS | 22.50 | 0 | 20 | 113 | 82 - 118 | | |
| Chlorobenzene | 108-90-7 | MSD | 21.30 | 0 | 20 | 107 | 82 - 118 | RPD 5.40 (Max-30) | |
| Chlorodibromomethane | 124-48-1 | MS | 18.90 | 0 | 20 | 94.7 | 74 - 126 | | |
| Chlorodibromomethane | 124-48-1 | MSD | 18.20 | 0 | 20 | 90.8 | 74 - 126 | RPD 4.18 (Max-30) | |
| Chloroethane | 75-00-3 | MS | 21.90 | 0 | 20 | 110 | 60 - 138 | | |
| Chloroethane | 75-00-3 | MSD | 19.90 | 0 | 20 | 99.3 | 60 - 138 | RPD 9.94 (Max-30) | |
| Chloroform | 67-66-3 | MS | 22.20 | 0 | 20 | 111 | 79 - 124 | | |
| Chloroform | 67-66-3 | MSD | 21.10 | 0 | 20 | 105 | 79 - 124 | RPD 5.16 (Max-30) | |
| Chloromethane | 74-87-3 | MS | 21.70 | 0 | 20 | 108 | 50 - 139 | | |
| Chloromethane | 74-87-3 | MSD | 19.50 | 0 | 20 | 97.4 | 50 - 139 | RPD 10.70 (Max-30) | |
| cis-1,2-Dichloroethene | 156-59-2 | MS | 23.10 | 0 | 20 | 115 | 78 - 123 | | |
| cis-1,2-Dichloroethene | 156-59-2 | MSD | 21.30 | 0 | 20 | 107 | 78 - 123 | RPD 7.94 (Max-30) | |
| cis-1,3-Dichloropropene | 10061-01-5 | MS | 19.70 | 0 | 20 | 98.7 | 75 - 124 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | MSD | 18.80 | 0 | 20 | 94.2 | 75 - 124 | RPD 4.66 (Max-30) | |
| Dibromomethane | 74-95-3 | MS | 22.20 | 0 | 20 | 111 | 79 - 123 | | |
| Dibromomethane | 74-95-3 | MSD | 20.40 | 0 | 20 | 102 | 79 - 123 | RPD 8.58 (Max-30) | |
| Dichlorodifluoromethane | 75-71-8 | MS | 20.70 | 0 | 20 | 103 | 32 - 152 | | |
| Dichlorodifluoromethane | 75-71-8 | MSD | 18.80 | 0 | 20 | 94.1 | 32 - 152 | RPD 9.25 (Max-30) | |
| Ethylbenzene | 100-41-4 | MS | 21.40 | 0 | 20 | 107 | 79 - 121 | | |
| Ethylbenzene | 100-41-4 | MSD | 20.10 | 0 | 20 | 101 | 79 - 121 | RPD 6.16 (Max-30) | |
| Hexachlorobutadiene | 87-68-3 | MS | 20.80 | 0 | 20 | 104 | 66 - 134 | | |
| Hexachlorobutadiene | 87-68-3 | MSD | 20.80 | 0 | 20 | 104 | 66 - 134 | RPD 0.28 (Max-30) | |
| Isopropylbenzene | 98-82-8 | MS | 25.40 | 0 | 20 | 127 | 72 - 131 | | |
| Isopropylbenzene | 98-82-8 | MSD | 24.40 | 0 | 20 | 122 | 72 - 131 | RPD 3.98 (Max-30) | |
| Methylene Chloride | 75-09-2 | MS | 21.80 | 0 | 20 | 109 | 74 - 124 | | |
| Methylene Chloride | 75-09-2 | MSD | 20.40 | 0 | 20 | 102 | 74 - 124 | RPD 6.73 (Max-30) | |
| mp-Xylene | 108383/106423 | MS | 42.40 | 0 | 40 | 106 | 80 - 121 | | |
| mp-Xylene | 108383/106423 | MSD | 40.40 | 0 | 40 | 101 | 80 - 121 | RPD 4.71 (Max-30) | |
| Naphthalene | 91-20-3 | MS | 19.30 | 0 | 20 | 96.7 | 61 - 128 | | |
| Naphthalene | 91-20-3 | MSD | 19 | 0 | 20 | 95.2 | 61 - 128 | RPD 1.61 (Max-30) | |
| n-Butylbenzene | 104-51-8 | MS | 22.80 | 0 | 20 | 114 | 75 - 128 | | |
| n-Butylbenzene | 104-51-8 | MSD | 22.90 | 0 | 20 | 114 | 75 - 128 | RPD 0.48 (Max-30) | |
| n-Propylbenzene | 103-65-1 | MS | 24 | 0 | 20 | 120 | 76 - 126 | | |
| n-Propylbenzene | 103-65-1 | MSD | 23.10 | 0 | 20 | 116 | 76 - 126 | RPD 3.62 (Max-30) | |

## QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| o-Chlorotoluene | 95-49-8 | MS | 23.90 | 0 | 20 | 120 | 79 - 122 | | |
| o-Chlorotoluene | 95-49-8 | MSD | 23.30 | 0 | 20 | 117 | 79 - 122 | RPD 2.52 (Max-30) | |
| o-Xylene | 95-47-6 | MS | 21.20 | 0 | 20 | 106 | 78 - 122 | | |
| o-Xylene | 95-47-6 | MSD | 19.90 | 0 | 20 | 99.6 | 78 - 122 | RPD 6.39 (Max-30) | |
| p-Chlorotoluene | 106-43-4 | MS | 24 | 0 | 20 | 120 | 78 - 122 | | |
| p-Chlorotoluene | 106-43-4 | MSD | 23.30 | 0 | 20 | 117 | 78 - 122 | RPD 2.72 (Max-30) | |
| p-Isopropyltoluene | 99-87-6 | MS | 24.30 | 0 | 20 | 122 | 77 - 127 | | |
| p-Isopropyltoluene | 99-87-6 | MSD | 23 | 0 | 20 | 115 | 77 - 127 | RPD 5.42 (Max-30) | |
| sec-Butylbenzene | 135-98-8 | MS | 25.20 | 0 | 20 | 126 | 77 - 126 | | |
| sec-Butylbenzene | 135-98-8 | MSD | 24.30 | 0 | 20 | 122 | 77 - 126 | RPD 3.43 (Max-30) | |
| Styrene | 100-42-5 | MS | 21.90 | 0 | 20 | 109 | 78 - 123 | | |
| Styrene | 100-42-5 | MSD | 21 | 0 | 20 | 105 | 78 - 123 | RPD 4.26 (Max-30) | |
| tert-Butylbenzene | 98-06-6 | MS | 24.80 | 0 | 20 | 124 | 78 - 124 | | |
| tert-Butylbenzene | 98-06-6 | MSD | 23.90 | 0 | 20 | 120 | 78 - 124 | RPD 3.71 (Max-30) | |
| Tetrachloroethene | 127-18-4 | MS | 21.10 | 0 | 20 | 106 | 74 - 129 | | |
| Tetrachloroethene | 127-18-4 | MSD | 20.30 | 0 | 20 | 102 | 74 - 129 | RPD 3.88 (Max-30) | |
| Toluene | 108-88-3 | MS | 21.40 | 0 | 20 | 107 | 80 - 121 | | |
| Toluene | 108-88-3 | MSD | 20.30 | 0 | 20 | 101 | 80 - 121 | RPD 5.38 (Max-30) | |
| trans-1,2-Dichloroethene | 156-60-5 | MS | 23 | 0 | 20 | 115 | 75 - 124 | | |
| trans-1,2-Dichloroethene | 156-60-5 | MSD | 21.10 | 0 | 20 | 106 | 75 - 124 | RPD 8.76 (Max-30) | |
| trans-1,3-Dichloropropene | 10061-02-6 | MS | 20 | 0 | 20 | 99.9 | 73 - 127 | | |
| trans-1,3-Dichloropropene | 10061-02-6 | MSD | 19 | 0 | 20 | 95.1 | 73 - 127 | RPD 4.91 (Max-30) | |
| Trichloroethene | 79-01-6 | MS | 22.40 | 0.93 | 20 | 107 | 79 - 123 | | |
| Trichloroethene | 79-01-6 | MSD | 20.90 | 0.93 | 20 | 99.8 | 79 - 123 | RPD 6.78 (Max-30) | |
| Trichlorofluoromethane | 75-69-4 | MS | 21.70 | 0 | 20 | 109 | 65 - 141 | | |
| Trichlorofluoromethane | 75-69-4 | MSD | 19.60 | 0 | 20 | 98.2 | 65 - 141 | RPD 10 (Max-30) | |
| Vinyl Chloride | 75-01-4 | MS | 21.50 | 0 | 20 | 108 | 58 - 137 | | |
| Vinyl Chloride | 75-01-4 | MSD | 19.50 | 0 | 20 | 97.3 | 58 - 137 | RPD 10.20 (Max-30) | |

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | MS | 32.40 | 30 | 108 | 81 - 118 | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | MSD | 32.60 | 30 | 109 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | MS | 30 | 30 | 100 | 85 - 114 | |
| 4-Bromofluorobenzene | 460-00-4 | MSD | 31 | 30 | 103 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | MS | 29.10 | 30 | 97.1 | 80 - 119 | |
| Dibromofluoromethane | 1868-53-7 | MSD | 30.80 | 30 | 103 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | MS | 30.20 | 30 | 101 | 89 - 112 | |
| Toluene-d8 | 2037-26-5 | MSD | 31 | 30 | 103 | 89 - 112 | |

***Method Blank*** 3845608 (MB) Created on 06/27/2024 20:24 For QC Batch 1235666

*RESULTS*

| Compound | CAS No | | Result | Units | LOQ | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | BLK | 0.75U | ug/L | 1.0 | U |



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QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result | Units | LOQ | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,2-Trichloroethane | 79-00-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloroethane | 75-34-3 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloroethene | 75-35-4 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloropropene | 563-58-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,3-Trichlorobenzene | 87-61-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,3-Trichloropropane | 96-18-4 | BLK | 2.5U | ug/L | 5.0 | U |
| 1,2,4-Trichlorobenzene | 120-82-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,4-Trimethylbenzene | 95-63-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | BLK | 2.5U | ug/L | 5.0 | U |
| 1,2-Dibromoethane | 106-93-4 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichlorobenzene | 95-50-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichloroethane | 107-06-2 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichloropropane | 78-87-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3,5-Trimethylbenzene | 108-67-8 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3-Dichlorobenzene | 541-73-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3-Dichloropropane | 142-28-9 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,4-Dichlorobenzene | 106-46-7 | BLK | 0.75U | ug/L | 1.0 | U |
| 2,2-Dichloropropane | 594-20-7 | BLK | 0.75U | ug/L | 1.0 | U |
| 2-Butanone | 78-93-3 | BLK | 3.8U | ug/L | 5.0 | U |
| 2-Hexanone | 591-78-6 | BLK | 3.8U | ug/L | 5.0 | U |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | BLK | 3.8U | ug/L | 5.0 | U |
| Acetone | 67-64-1 | BLK | 3.8U | ug/L | 5.0 | U |
| Benzene | 71-43-2 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromobenzene | 108-86-1 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromochloromethane | 74-97-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromodichloromethane | 75-27-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromoform | 75-25-2 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromomethane | 74-83-9 | BLK | 0.75U | ug/L | 1.0 | U |
| Carbon Disulfide | 75-15-0 | BLK | 0.75U | ug/L | 1.0 | U |
| Carbon Tetrachloride | 56-23-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Chlorobenzene | 108-90-7 | BLK | 0.75U | ug/L | 1.0 | U |
| Chlorodibromomethane | 124-48-1 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloroethane | 75-00-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloroform | 67-66-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloromethane | 74-87-3 | BLK | 0.75U | ug/L | 1.0 | U |
| cis-1,2-Dichloroethene | 156-59-2 | BLK | 0.75U | ug/L | 1.0 | U |
| cis-1,3-Dichloropropene | 10061-01-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Dibromomethane | 74-95-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Dichlorodifluoromethane | 75-71-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Ethylbenzene | 100-41-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Hexachlorobutadiene | 87-68-3 | BLK | 3.8U | ug/L | 5.0 | U |
| Isopropylbenzene | 98-82-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Methylene Chloride | 75-09-2 | BLK | 0.75U | ug/L | 1.0 | U |
| mp-Xylene | 108383/106423 | BLK | 1.5U | ug/L | 2.0 | U |
| Naphthalene | 91-20-3 | BLK | 0.75U | ug/L | 1.0 | U |
| n-Butylbenzene | 104-51-8 | BLK | 0.75U | ug/L | 1.0 | U |



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QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result | Units | LOQ | Qualifiers |
|---|---|---|---|---|---|---|
| n-Propylbenzene | 103-65-1 | BLK | 0.75U | ug/L | 1.0 | U |
| o-Chlorotoluene | 95-49-8 | BLK | 0.75U | ug/L | 1.0 | U |
| o-Xylene | 95-47-6 | BLK | 0.75U | ug/L | 1.0 | U |
| p-Chlorotoluene | 106-43-4 | BLK | 0.75U | ug/L | 1.0 | U |
| p-Isopropyltoluene | 99-87-6 | BLK | 0.75U | ug/L | 1.0 | U |
| sec-Butylbenzene | 135-98-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Styrene | 100-42-5 | BLK | 0.75U | ug/L | 1.0 | U |
| tert-Butylbenzene | 98-06-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Tetrachloroethene | 127-18-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Toluene | 108-88-3 | BLK | 0.75U | ug/L | 1.0 | U |
| trans-1,2-Dichloroethene | 156-60-5 | BLK | 0.75U | ug/L | 1.0 | U |
| trans-1,3-Dichloropropene | 10061-02-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Trichloroethene | 79-01-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Trichlorofluoromethane | 75-69-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Vinyl Chloride | 75-01-4 | BLK | 0.75U | ug/L | 1.0 | U |

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | BLK | 29.90 | 30 | 99.7 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | BLK | 29.70 | 30 | 99.1 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | BLK | 27.60 | 30 | 91.9 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | BLK | 30.20 | 30 | 101 | 89 - 112 | |

***Lab Control Standard*** 3845609 (LCS) Created on 06/27/2024 20:24 For QC Batch 1235666

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | LCS | 19.20 | | 20 | 96 | 78 - 124 | | |
| 1,1,1-Trichloroethane | 71-55-6 | LCS | 20.20 | | 20 | 101 | 74 - 131 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | LCS | 22.50 | | 20 | 113 | 71 - 121 | | |
| 1,1,2-Trichloroethane | 79-00-5 | LCS | 21.20 | | 20 | 106 | 80 - 119 | | |
| 1,1-Dichloroethane | 75-34-3 | LCS | 19.70 | | 20 | 98.7 | 77 - 125 | | |
| 1,1-Dichloroethene | 75-35-4 | LCS | 19.40 | | 20 | 97 | 71 - 131 | | |
| 1,1-Dichloropropene | 563-58-6 | LCS | 19.10 | | 20 | 95.6 | 79 - 125 | | |
| 1,2,3-Trichlorobenzene | 87-61-6 | LCS | 19.30 | | 20 | 96.5 | 69 - 129 | | |
| 1,2,3-Trichloropropane | 96-18-4 | LCS | 21.90 | | 20 | 110 | 73 - 122 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | LCS | 23.80 | | 20 | 119 | 69 - 130 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | LCS | 20 | | 20 | 100 | 76 - 124 | | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | LCS | 18.90 | | 20 | 94.7 | 62 - 128 | | |
| 1,2-Dibromoethane | 106-93-4 | LCS | 19.10 | | 20 | 95.7 | 77 - 121 | | |
| 1,2-Dichlorobenzene | 95-50-1 | LCS | 22 | | 20 | 110 | 80 - 119 | | |
| 1,2-Dichloroethane | 107-06-2 | LCS | 20 | | 20 | 99.9 | 73 - 128 | | |
| 1,2-Dichloropropane | 78-87-5 | LCS | 20.20 | | 20 | 101 | 78 - 122 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | LCS | 21.20 | | 20 | 106 | 75 - 124 | | |



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QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 541-73-1 | LCS | 21.60 | | 20 | 108 | 80 - 119 | | |
| 1,3-Dichloropropane | 142-28-9 | LCS | 21.50 | | 20 | 108 | 80 - 119 | | |
| 1,4-Dichlorobenzene | 106-46-7 | LCS | 21.50 | | 20 | 107 | 79 - 118 | | |
| 2,2-Dichloropropane | 594-20-7 | LCS | 21 | | 20 | 105 | 60 - 139 | | |
| 2-Butanone | 78-93-3 | LCS | 105 | | 100 | 105 | 56 - 143 | | |
| 2-Hexanone | 591-78-6 | LCS | 103 | | 100 | 103 | 57 - 139 | | |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | LCS | 102 | | 100 | 102 | 67 - 130 | | |
| Acetone | 67-64-1 | LCS | 112 | | 100 | 112 | 39 - 160 | | |
| Benzene | 71-43-2 | LCS | 19.20 | | 20 | 96 | 79 - 120 | | |
| Bromobenzene | 108-86-1 | LCS | 21.60 | | 20 | 108 | 80 - 120 | | |
| Bromochloromethane | 74-97-5 | LCS | 21.10 | | 20 | 105 | 78 - 123 | | |
| Bromodichloromethane | 75-27-4 | LCS | 18.90 | | 20 | 94.4 | 79 - 125 | | |
| Bromoform | 75-25-2 | LCS | 17.90 | | 20 | 89.6 | 66 - 130 | | |
| Bromomethane | 74-83-9 | LCS | 16.20 | | 20 | 81.2 | 53 - 141 | | |
| Carbon Disulfide | 75-15-0 | LCS | 19 | | 20 | 94.9 | 64 - 133 | | |
| Carbon Tetrachloride | 56-23-5 | LCS | 17.40 | | 20 | 87 | 72 - 136 | | |
| Chlorobenzene | 108-90-7 | LCS | 20.40 | | 20 | 102 | 82 - 118 | | |
| Chlorodibromomethane | 124-48-1 | LCS | 18.50 | | 20 | 92.6 | 74 - 126 | | |
| Chloroethane | 75-00-3 | LCS | 18 | | 20 | 90 | 60 - 138 | | |
| Chloroform | 67-66-3 | LCS | 20.10 | | 20 | 101 | 79 - 124 | | |
| Chloromethane | 74-87-3 | LCS | 17.30 | | 20 | 86.3 | 50 - 139 | | |
| cis-1,2-Dichloroethene | 156-59-2 | LCS | 20.40 | | 20 | 102 | 78 - 123 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | LCS | 18.80 | | 20 | 94.1 | 75 - 124 | | |
| Dibromomethane | 74-95-3 | LCS | 20.60 | | 20 | 103 | 79 - 123 | | |
| Dichlorodifluoromethane | 75-71-8 | LCS | 16.20 | | 20 | 81 | 32 - 152 | | |
| Ethylbenzene | 100-41-4 | LCS | 19.20 | | 20 | 96 | 79 - 121 | | |
| Hexachlorobutadiene | 87-68-3 | LCS | 20.20 | | 20 | 101 | 66 - 134 | | |
| Isopropylbenzene | 98-82-8 | LCS | 22.40 | | 20 | 112 | 72 - 131 | | |
| Methylene Chloride | 75-09-2 | LCS | 19.80 | | 20 | 99 | 74 - 124 | | |
| mp-Xylene | 108383/106423 | LCS | 37.60 | | 40 | 93.9 | 80 - 121 | | |
| Naphthalene | 91-20-3 | LCS | 20 | | 20 | 99.9 | 61 - 128 | | |
| n-Butylbenzene | 104-51-8 | LCS | 21.10 | | 20 | 105 | 75 - 128 | | |
| n-Propylbenzene | 103-65-1 | LCS | 21.20 | | 20 | 106 | 76 - 126 | | |
| o-Chlorotoluene | 95-49-8 | LCS | 21.70 | | 20 | 109 | 79 - 122 | | |
| o-Xylene | 95-47-6 | LCS | 19.10 | | 20 | 95.6 | 78 - 122 | | |
| p-Chlorotoluene | 106-43-4 | LCS | 22.10 | | 20 | 110 | 78 - 122 | | |
| p-Isopropyltoluene | 99-87-6 | LCS | 21.50 | | 20 | 107 | 77 - 127 | | |
| sec-Butylbenzene | 135-98-8 | LCS | 21.90 | | 20 | 109 | 77 - 126 | | |
| Styrene | 100-42-5 | LCS | 19.90 | | 20 | 99.4 | 78 - 123 | | |
| tert-Butylbenzene | 98-06-6 | LCS | 21.70 | | 20 | 109 | 78 - 124 | | |
| Tetrachloroethene | 127-18-4 | LCS | 19.60 | | 20 | 97.9 | 74 - 129 | | |
| Toluene | 108-88-3 | LCS | 19.20 | | 20 | 95.8 | 80 - 121 | | |
| trans-1,2-Dichloroethene | 156-60-5 | LCS | 20 | | 20 | 100 | 75 - 124 | | |
| trans-1,3-Dichloropropene | 10061-02-6 | LCS | 19.40 | | 20 | 97.2 | 73 - 127 | | |
| Trichloroethene | 79-01-6 | LCS | 19.10 | | 20 | 95.4 | 79 - 123 | | |
| Trichlorofluoromethane | 75-69-4 | LCS | 17 | | 20 | 84.9 | 65 - 141 | | |
| Vinyl Chloride | 75-01-4 | LCS | 16.70 | | 20 | 83.6 | 58 - 137 | | |



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## QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | LCS | 30.60 | 30 | 102 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | LCS | 30.60 | 30 | 102 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | LCS | 29.80 | 30 | 99.4 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | LCS | 30.90 | 30 | 103 | 89 - 112 | |

**QC Batch**

| | | | |
|---|---|---|---|
| QC Batch | 1236144 | Prep Method | N/A |
| Date | N/A | Analysis Method | SW846 8260D |
| Tech. | | | |

**Associated Samples**

3366027002 3366027001

***Method Blank*** 3845975 (MB) Created on 06/28/2024 10:24 For QC Batch 1236144

*RESULTS*

| Compound | CAS No | | Result | Units | LOQ | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,1-Trichloroethane | 71-55-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,2-Trichloroethane | 79-00-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloroethane | 75-34-3 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloroethene | 75-35-4 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloropropene | 563-58-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,3-Trichlorobenzene | 87-61-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,3-Trichloropropane | 96-18-4 | BLK | 2.5U | ug/L | 5.0 | U |
| 1,2,4-Trichlorobenzene | 120-82-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,4-Trimethylbenzene | 95-63-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | BLK | 2.5U | ug/L | 5.0 | U |
| 1,2-Dibromoethane | 106-93-4 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichlorobenzene | 95-50-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichloroethane | 107-06-2 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichloropropane | 78-87-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3,5-Trimethylbenzene | 108-67-8 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3-Dichlorobenzene | 541-73-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3-Dichloropropane | 142-28-9 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,4-Dichlorobenzene | 106-46-7 | BLK | 0.75U | ug/L | 1.0 | U |
| 2,2-Dichloropropane | 594-20-7 | BLK | 0.75U | ug/L | 1.0 | U |
| 2-Butanone | 78-93-3 | BLK | 3.8U | ug/L | 5.0 | U |
| 2-Hexanone | 591-78-6 | BLK | 3.8U | ug/L | 5.0 | U |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | BLK | 3.8U | ug/L | 5.0 | U |
| Acetone | 67-64-1 | BLK | 3.8U | ug/L | 5.0 | U |
| Benzene | 71-43-2 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromobenzene | 108-86-1 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromochloromethane | 74-97-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromodichloromethane | 75-27-4 | BLK | 0.75U | ug/L | 1.0 | U |



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**Project** AHH131|HS24061196
**Workorder** 3366027

QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result | Units | LOQ | Qualifiers |
|---|---|---|---|---|---|---|
| Bromoform | 75-25-2 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromomethane | 74-83-9 | BLK | 0.75U | ug/L | 1.0 | U |
| Carbon Disulfide | 75-15-0 | BLK | 0.75U | ug/L | 1.0 | U |
| Carbon Tetrachloride | 56-23-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Chlorobenzene | 108-90-7 | BLK | 0.75U | ug/L | 1.0 | U |
| Chlorodibromomethane | 124-48-1 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloroethane | 75-00-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloroform | 67-66-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloromethane | 74-87-3 | BLK | 0.75U | ug/L | 1.0 | U |
| cis-1,2-Dichloroethene | 156-59-2 | BLK | 0.75U | ug/L | 1.0 | U |
| cis-1,3-Dichloropropene | 10061-01-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Dibromomethane | 74-95-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Dichlorodifluoromethane | 75-71-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Ethylbenzene | 100-41-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Hexachlorobutadiene | 87-68-3 | BLK | 3.8U | ug/L | 5.0 | U |
| Isopropylbenzene | 98-82-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Methylene Chloride | 75-09-2 | BLK | 0.75U | ug/L | 1.0 | U |
| mp-Xylene | 108383/106423 | BLK | 1.5U | ug/L | 2.0 | U |
| Naphthalene | 91-20-3 | BLK | 0.75U | ug/L | 1.0 | U |
| n-Butylbenzene | 104-51-8 | BLK | 0.75U | ug/L | 1.0 | U |
| n-Propylbenzene | 103-65-1 | BLK | 0.75U | ug/L | 1.0 | U |
| o-Chlorotoluene | 95-49-8 | BLK | 0.75U | ug/L | 1.0 | U |
| o-Xylene | 95-47-6 | BLK | 0.75U | ug/L | 1.0 | U |
| p-Chlorotoluene | 106-43-4 | BLK | 0.75U | ug/L | 1.0 | U |
| p-Isopropyltoluene | 99-87-6 | BLK | 0.75U | ug/L | 1.0 | U |
| sec-Butylbenzene | 135-98-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Styrene | 100-42-5 | BLK | 0.75U | ug/L | 1.0 | U |
| tert-Butylbenzene | 98-06-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Tetrachloroethene | 127-18-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Toluene | 108-88-3 | BLK | 0.75U | ug/L | 1.0 | U |
| trans-1,2-Dichloroethene | 156-60-5 | BLK | 0.75U | ug/L | 1.0 | U |
| trans-1,3-Dichloropropene | 10061-02-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Trichloroethene | 79-01-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Trichlorofluoromethane | 75-69-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Vinyl Chloride | 75-01-4 | BLK | 0.75U | ug/L | 1.0 | U |

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | BLK | 30.60 | 30 | 102 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | BLK | 26.80 | 30 | 89.4 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | BLK | 27.60 | 30 | 92 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | BLK | 30.30 | 30 | 101 | 89 - 112 | |



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QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

***Lab Control Standard*** 3845976 (LCS) Created on 06/28/2024 10:24 For QC Batch 1236144

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | LCS | 19.10 | | 20 | 95.6 | 78 - 124 | | |
| 1,1,1-Trichloroethane | 71-55-6 | LCS | 21.50 | | 20 | 108 | 74 - 131 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | LCS | 21.60 | | 20 | 108 | 71 - 121 | | |
| 1,1,2-Trichloroethane | 79-00-5 | LCS | 20.70 | | 20 | 104 | 80 - 119 | | |
| 1,1-Dichloroethane | 75-34-3 | LCS | 20.80 | | 20 | 104 | 77 - 125 | | |
| 1,1-Dichloroethene | 75-35-4 | LCS | 21.50 | | 20 | 108 | 71 - 131 | | |
| 1,1-Dichloropropene | 563-58-6 | LCS | 20.60 | | 20 | 103 | 79 - 125 | | |
| 1,2,3-Trichlorobenzene | 87-61-6 | LCS | 19.50 | | 20 | 97.3 | 69 - 129 | | |
| 1,2,3-Trichloropropane | 96-18-4 | LCS | 21.20 | | 20 | 106 | 73 - 122 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | LCS | 24.10 | | 20 | 121 | 69 - 130 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | LCS | 20.10 | | 20 | 101 | 76 - 124 | | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | LCS | 18.90 | | 20 | 94.7 | 62 - 128 | | |
| 1,2-Dibromoethane | 106-93-4 | LCS | 19 | | 20 | 94.8 | 77 - 121 | | |
| 1,2-Dichlorobenzene | 95-50-1 | LCS | 21.90 | | 20 | 110 | 80 - 119 | | |
| 1,2-Dichloroethane | 107-06-2 | LCS | 19.70 | | 20 | 98.5 | 73 - 128 | | |
| 1,2-Dichloropropane | 78-87-5 | LCS | 20.80 | | 20 | 104 | 78 - 122 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | LCS | 21.20 | | 20 | 106 | 75 - 124 | | |
| 1,3-Dichlorobenzene | 541-73-1 | LCS | 22.10 | | 20 | 110 | 80 - 119 | | |
| 1,3-Dichloropropane | 142-28-9 | LCS | 21.60 | | 20 | 108 | 80 - 119 | | |
| 1,4-Dichlorobenzene | 106-46-7 | LCS | 21.80 | | 20 | 109 | 79 - 118 | | |
| 2,2-Dichloropropane | 594-20-7 | LCS | 21.30 | | 20 | 107 | 60 - 139 | | |
| 2-Butanone | 78-93-3 | LCS | 104 | | 100 | 104 | 56 - 143 | | |
| 2-Hexanone | 591-78-6 | LCS | 103 | | 100 | 103 | 57 - 139 | | |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | LCS | 104 | | 100 | 104 | 67 - 130 | | |
| Acetone | 67-64-1 | LCS | 108 | | 100 | 108 | 39 - 160 | | |
| Benzene | 71-43-2 | LCS | 19.90 | | 20 | 99.3 | 79 - 120 | | |
| Bromobenzene | 108-86-1 | LCS | 20.10 | | 20 | 100 | 80 - 120 | | |
| Bromochloromethane | 74-97-5 | LCS | 21.20 | | 20 | 106 | 78 - 123 | | |
| Bromodichloromethane | 75-27-4 | LCS | 18.80 | | 20 | 94.2 | 79 - 125 | | |
| Bromoform | 75-25-2 | LCS | 18.10 | | 20 | 90.3 | 66 - 130 | | |
| Bromomethane | 74-83-9 | LCS | 20 | | 20 | 100 | 53 - 141 | | |
| Carbon Disulfide | 75-15-0 | LCS | 21.10 | | 20 | 106 | 64 - 133 | | |
| Carbon Tetrachloride | 56-23-5 | LCS | 17.40 | | 20 | 87.2 | 72 - 136 | | |
| Chlorobenzene | 108-90-7 | LCS | 20.60 | | 20 | 103 | 82 - 118 | | |
| Chlorodibromomethane | 124-48-1 | LCS | 18.10 | | 20 | 90.4 | 74 - 126 | | |
| Chloroethane | 75-00-3 | LCS | 20.30 | | 20 | 102 | 60 - 138 | | |
| Chloroform | 67-66-3 | LCS | 20.80 | | 20 | 104 | 79 - 124 | | |
| Chloromethane | 74-87-3 | LCS | 20.10 | | 20 | 100 | 50 - 139 | | |
| cis-1,2-Dichloroethene | 156-59-2 | LCS | 21.10 | | 20 | 106 | 78 - 123 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | LCS | 18.90 | | 20 | 94.3 | 75 - 124 | | |
| Dibromomethane | 74-95-3 | LCS | 20.20 | | 20 | 101 | 79 - 123 | | |
| Dichlorodifluoromethane | 75-71-8 | LCS | 20.10 | | 20 | 101 | 32 - 152 | | |
| Ethylbenzene | 100-41-4 | LCS | 19.10 | | 20 | 95.7 | 79 - 121 | | |
| Hexachlorobutadiene | 87-68-3 | LCS | 22.70 | | 20 | 113 | 66 - 134 | | |



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QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 98-82-8 | LCS | 24.20 | | 20 | 121 | 72 - 131 | | |
| Methylene Chloride | 75-09-2 | LCS | 21.40 | | 20 | 107 | 74 - 124 | | |
| mp-Xylene | 108383/106423 | LCS | 38.90 | | 40 | 97.2 | 80 - 121 | | |
| Naphthalene | 91-20-3 | LCS | 19.90 | | 20 | 99.6 | 61 - 128 | | |
| n-Butylbenzene | 104-51-8 | LCS | 21.30 | | 20 | 107 | 75 - 128 | | |
| n-Propylbenzene | 103-65-1 | LCS | 21.10 | | 20 | 106 | 76 - 126 | | |
| o-Chlorotoluene | 95-49-8 | LCS | 21.40 | | 20 | 107 | 79 - 122 | | |
| o-Xylene | 95-47-6 | LCS | 19.30 | | 20 | 96.4 | 78 - 122 | | |
| p-Chlorotoluene | 106-43-4 | LCS | 22.40 | | 20 | 112 | 78 - 122 | | |
| p-Isopropyltoluene | 99-87-6 | LCS | 21.80 | | 20 | 109 | 77 - 127 | | |
| sec-Butylbenzene | 135-98-8 | LCS | 22.90 | | 20 | 115 | 77 - 126 | | |
| Styrene | 100-42-5 | LCS | 21.20 | | 20 | 106 | 78 - 123 | | |
| tert-Butylbenzene | 98-06-6 | LCS | 22.50 | | 20 | 113 | 78 - 124 | | |
| Tetrachloroethene | 127-18-4 | LCS | 20.20 | | 20 | 101 | 74 - 129 | | |
| Toluene | 108-88-3 | LCS | 19.60 | | 20 | 98.2 | 80 - 121 | | |
| trans-1,2-Dichloroethene | 156-60-5 | LCS | 21.50 | | 20 | 108 | 75 - 124 | | |
| trans-1,3-Dichloropropene | 10061-02-6 | LCS | 19.60 | | 20 | 97.9 | 73 - 127 | | |
| Trichloroethene | 79-01-6 | LCS | 20.20 | | 20 | 101 | 79 - 123 | | |
| Trichlorofluoromethane | 75-69-4 | LCS | 19.30 | | 20 | 96.5 | 65 - 141 | | |
| Vinyl Chloride | 75-01-4 | LCS | 19.70 | | 20 | 98.7 | 58 - 137 | | |

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | LCS | 30.40 | 30 | 101 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | LCS | 29.20 | 30 | 97.3 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | LCS | 29.70 | 30 | 98.9 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | LCS | 30.30 | 30 | 101 | 89 - 112 | |

**Project** AHH131|HS24061196
**Workorder** 3366027

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

| Lab ID | Sample ID | Preparation Method | Prep Batch | Prep Date/Time | By | Analysis Method | Anly Batch |
|---|---|---|---|---|---|---|---|
| 3366027001 | HS24061196-01 | N/A | N/A | N/A | | SW846 8260D | 1236144 |
| | | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366027002 | HS24061196-02 | N/A | N/A | N/A | | SW846 8260D | 1236144 |
| 3366027003 | HS24061196-03 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366027004 | HS24061196-04 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366027005 | HS24061196-05 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366027006 | HS24061196-06 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366027007 | HS24061196-07 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366027008 | HS24061196-08 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366027009 | HS24061196-09 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366027010 | HS24061196-10 | N/A | N/A | N/A | | SW846 8260D | 1235282 |
| 3366027011 | HS24061196-11 | N/A | N/A | N/A | | SW846 8260D | 1235666 |



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Houston, TX 77099
**T:** +1 281 530 5656
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# Subcontract Chain of Custody

**SAMPLING STATE:** **Texas** **COC ID:** **26143**

**SUBCONTRACT TO:**

ALS
301 Fulling Mill Road
Middletown, PA 17057

**Phone:** +1 717 702 2244

3366027
Logged By: MJE
PM: SSL



**CUSTOMER INFORMATION:**

| | |
|---|---|
| **Company:** | ALS Houston |
| **Contact:** | Luis.Aguilar |
| **Address:** | 10450 Stancliff Rd, Ste 210 |
| **Phone:** | +1 281 530 5656 |
| **Email:** | luis.aguilar@alsglobal.com |
| **Alternate Contact:** | Jumoke M. Lawal |
| **Email:** | jumoke.lawal@alsglobal.com |

**INVOICE INFORMATION:**

| | |
|---|---|
| **Company:** | ALS Houston |
| **Contact:** | Accounts Payable |
| **Address:** | 10450 Stancliff Rd, Ste 210 |
| **Phone:** | +1 281 530 5656 |
| **Reference:** | HS24061196 |
| **TSR:** | Sonia West |

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|---|---|---|---|---|
| | ANALYSIS REQUESTED | | | DUE DATE |
| 1. | **HS24061196-01** | **18CPTMW14_061824** | **Water** | **18 Jun 2024 07:10** |
| | Custom selection | | | 03 Jul 2024 |
| 2. | **HS24061196-02** | **18WW03_061824** | **Water** | **18 Jun 2024 08:00** |
| | Custom selection | | | 03 Jul 2024 |
| 3. | **HS24061196-03** | **CO8_061824** | **Water** | **18 Jun 2024 08:45** |
| | Custom selection | | | 03 Jul 2024 |
| 4. | **HS24061196-04** | **1824DPTMW04_061824** | **Water** | **18 Jun 2024 09:30** |
| | Custom selection | | | 03 Jul 2024 |
| 5. | **HS24061196-05** | **18WW24_061824** | **Water** | **18 Jun 2024 10:15** |
| | Custom selection | | | 03 Jul 2024 |
| 6. | **HS24061196-06** | **18WW24_061824_a** | **Water** | **18 Jun 2024 10:15** |
| | Custom selection | | | 03 Jul 2024 |
| 7. | **HS24061196-07** | **CO2_061824** | **Water** | **18 Jun 2024 11:00** |
| | Custom selection | | | 03 Jul 2024 |
| 8. | **HS24061196-08** | **MW13_061824** | **Water** | **18 Jun 2024 11:40** |
| | Custom selection | | | 03 Jul 2024 |
| 9. | **HS24061196-09** | **MW13_061824_a** | **Water** | **18 Jun 2024 11:40** |

MSE 6/26/24
3-G/HCL

# Subcontract Chain of Custody

**SAMPLING STATE:** **Texas** **COC ID:** **26143**

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|---|---|---|---|---|
| | ANALYSIS REQUESTED | | | DUE DATE |
| | Custom selection | | | 03 Jul 2024 |
| **10.** | **HS24061196-10** | **CO6_061824** 9-G\|HCL MS\|MSD | **Water** | **18 Jun 2024 12:30** |
| | Custom selection | | | 03 Jul 2024 |
| **11.** | **HS24061196-11** | **Trip Blank** 2-G\|HCL | **Water** | **18 Jun 2024 00:00** |
| | Custom selection | | | 03 Jul 2024 |

**Comments:** Please analyze for the analysis listed above.
Send report to the emails shown above.

**QC Level:** DOD IV (DoD Data Package)

Temp By: MJE | WO Temp (°C): 1° | Therm ID: 570

Receipt Info Completed By: MJE
Cooler Custody Seal Intact: Y N NA
Sample Custody Seal Intact: Y N NA
Received on Ice: Y N
Cooler & Samples Intact: Y N
Correct Containers Provided: Y N
Sample Label/COC Agree: Y N
Adequate Sample Volumes: Y N NA
CR6 Samples Filtered: Y N NA
OP Samples Filtered: Y N NA
VOA Trip Blank: Y N NA
N!≤4 Days? Y N
Rad Screen (uCi)
Courier/Tracking #: 738879234761
SDWA Compliance: Y N
PWSID
WV Containers 0-6°C: Y N NA

*No Sampler, GK, G\|HCL-MJE 6/26/24

pm notified wo2724

Relinquished By: _____ Date/Time: _____

Received By: Fedex Date/Time: _____

~~Cooler ID(s):~~ Fedex ~~Temperature(s):~~ 6/26/24 936

6/26/24 936

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# Internal Chain of Custody

## Work Order: 3366027

| 3366027001-A | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027001-B | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027001-C | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027002-A | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027002-B | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027002-C | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027003-A | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027003-B | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027003-C | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027004-A | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

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# Internal Chain of Custody

## Work Order: 3366027

| 3366027004-B | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027004-C | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027005-A | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027005-B | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027005-C | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027006-A | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027006-B | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027006-C | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027007-A | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027007-B | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

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# Internal Chain of Custody
## Work Order: 3366027

| 3366027007-C | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027008-A | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027008-B | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027008-C | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027009-A | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027009-B | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027009-C | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027010-A | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027010-C | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027010-D | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

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# Internal Chain of Custody

## Work Order: 3366027

| 3366027010-E | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027010-F | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027010-G | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027010-H | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027010-I | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027011-A | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

| 3366027011-B | G - CLEAR GLASS | | |
|---|---|---|---|
| **Transfer Date** | **To Location** | **Transfer Reason** | **Transferred To** |
| 06-26-24 13:45 | RECEIVING | LOGIN | Emerich, Michael J. |
| *06-26-24 09:36* | *Sample Received At Lab* | | |

# Case Narrative

**Case Narrative**
**AHH-131**
**(3366027)**

## Sample Management

This report contains the results of the analysis of eleven (11) ground water samples collected on June 18, 2024. Analytical results and quality control information are summarized in this data package.

## Sample Receipt

The samples arrived at ALS - Middletown via courier on June 26, 2024. Upon receipt, the samples were inspected and compared to the Chain of Custody. Sample temperature was documented on the enclosed Chain of Custody. The samples were received intact and properly preserved, unless noted on the enclosed Certificate of Analysis and/or Chain of Custody.

## Qualifier Symbol Definitions:

U = Qualifier indicates that the analyte was not detected above the LOD.
J = Qualifier indicates that the analyte value is between the DL and the LOQ.
B = Qualifier indicates that the analyte was detected in the blank.
E = Qualifier indicates that the analyte result exceeds the calibration range.
P = Qualifier indicates that the RPD between the two analytical columns is > 40%.
NSC = Qualifier indicates that spike recoveries were not calculated based on the spiking concentration.

## Result Symbol Definitions:

DL = The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration at the 99% level of confidence.
LOD = The smallest analyte concentration that must be present in a sample in order to be detected at a high level of confidence.
LOQ = The lowest concentration that produces a quantitative result within specified limits of precision or bias.

## Manual Integration Symbol Definitions

I = Peak was not integrated properly by chromatographic software. This may be due to baseline irregularities resulting from sample matrix, elevated baseline, or incorrect integration by software on a sample. Integration was adjusted by operator to ensure proper quantitation.
H = The incorrect peak was identified or the chromatographic software did not identify an analyte peak. Operator manually identified the correct peak as the appropriate target analyte. This flag is automatically assigned by the Target software.
SP = Peak was erroneously split. The operator manually integrated the peak to include all the area of the analyte peak to ensure proper quantitation.
MP = Two peaks were erroneously merged. This may include two discrete peaks separated by a distinguishable valley or a larger peak with a clearly identifiable shoulder. Operator manually split peaks.
AB = Integration of group of adjacent peaks did not follow baseline. Operator manually assigned integration to follow baseline.
NP = Negative spike in the baseline resulted in overstating area of analyte peaks. Analyte peaks were re-assigned.
AC = Integration of aggregate or multi-component analyte to include area off all components of the analyte (i.e., toxaphene).

**Manual Integrations**

If manual integrations were performed, they are indicated on the raw data quantification files for each method.

**Volatile Organics by SW-846 Method 8260D**

**Sample Handling.** Eleven (11) ground water samples were analyzed by SW-846 Method 8260 for volatile organic compounds. All analyses were performed within holding time.

**Initial Calibrations** Initial calibrations were properly analyzed and met method criteria for all target analytes **Note:** The batch LCS also serves as a second source (ICV).

**Continuing Calibration Verification.** Continuing Calibration and closing standards were properly analyzed and met method criteria for target analytes.

**Blanks.** Target analytes were not detected in the method blanks.

**Surrogates.** Recoveries were within control limits.

**Laboratory control samples.** Target analytes were within control limits.

**Spike Sample Matrix**. Target analytes were recovered within control limits.

**Internal Standards.** One or more internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results.

right solutions.
right partner.

Form 1

# Organic Analysis Data Sheet

## Volatiles by EPA 8260D

Workorder

**3366027**

Client

ALS Houston

Project

AHH131|HS24061196

07/09/2024

www.alsglobal.com

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-01**

| | Collected | Received | Matrix |
|---|---|---|---|
| 3366027001 | 06/18/24 07:10 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 1,1,1-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 1,1,2,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 1,1,2-Trichloroethane | 0.57 | J | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 1,1-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 1,1-Dichloroethene | 5.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 1,1-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 1,2,3-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 1,2,3-Trichloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 1,2,4-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 1,2,4-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 1,2-Dibromo-3-chloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 1,2-Dibromoethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 1,2-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 1,2-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 1,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 1,3,5-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 1,3-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 1,3-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 1,4-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 2,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 2-Butanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 2-Hexanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| 4-Methyl-2-Pentanone(MIBK) | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Acetone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Benzene | 0.72 | J | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Bromobenzene | 0.75 | U | ug/L | 0.20 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Bromochloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Bromodichloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Bromoform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Bromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Carbon Disulfide | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-01**

3366027001

| Collected | Received | Matrix |
|---|---|---|
| 06/18/24 07:10 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Chlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Chlorodibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Chloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Chloroform | 24.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Chloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| cis-1,2-Dichloroethene | 5.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| cis-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Dibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Dichlorodifluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Ethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Hexachlorobutadiene | 3.8 | U | ug/L | 0.43 | 3.8 | 5.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Isopropylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Methylene Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| mp-Xylene | 1.5 | U | ug/L | 0.66 | 1.5 | 2.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Naphthalene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| n-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| n-Propylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| o-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| o-Xylene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| p-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| p-Isopropyltoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| sec-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Styrene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| tert-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Tetrachloroethene | 2.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Toluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| trans-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| trans-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Trichlorofluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |
| Vinyl Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 00:56 | 25240627A | 2524062766 |

# Form 1 - Organic Analysis Data Sheet

| | | | |
|---|---|---|---|
| Client | ALS Houston | Workorder | |
| Project | HS24061196 - AHH131 | **3366027** | |

## Volatiles by EPA 8260D

| HS24061196-01 | Collected | Received | Matrix |
|---|---|---|---|
| 3366027001x50 | 06/18/24 07:10 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 2060 | | ug/L | 16.5 | 37.5 | 50.0 | 50 | 06/28/24 18:12 | 25240628 | 2524062825 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-02**

3366027002

| Collected | Received | Matrix |
|---|---|---|
| 06/18/24 08:00 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 1,1,1-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 1,1,2,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 1,1,2-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 1,1-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 1,1-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 1,1-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 1,2,3-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 1,2,3-Trichloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 1,2,4-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 1,2,4-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 1,2-Dibromo-3-chloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 1,2-Dibromoethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 1,2-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 1,2-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 1,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 1,3,5-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 1,3-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 1,3-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 1,4-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 2,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 2-Butanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 2-Hexanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| 4-Methyl-2-Pentanone(MIBK) | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Acetone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Benzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Bromobenzene | 0.75 | U | ug/L | 0.20 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Bromochloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Bromodichloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Bromoform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Bromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Carbon Disulfide | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-02**

3366027002

| Collected | Received | Matrix |
|---|---|---|
| 06/18/24 08:00 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Chlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Chlorodibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Chloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Chloroform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Chloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| cis-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| cis-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Dibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Dichlorodifluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Ethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Hexachlorobutadiene | 3.8 | U | ug/L | 0.43 | 3.8 | 5.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Isopropylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Methylene Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| mp-Xylene | 1.5 | U | ug/L | 0.66 | 1.5 | 2.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Naphthalene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| n-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| n-Propylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| o-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| o-Xylene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| p-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| p-Isopropyltoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| sec-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Styrene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| tert-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Tetrachloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Toluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| trans-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| trans-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Trichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Trichlorofluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |
| Vinyl Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 13:06 | 25240628 | 2524062809 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-03**

| | Collected | Received | Matrix |
|---|---|---|---|
| 3366027003 | 06/18/24 08:45 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 1,1,1-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 1,1,2,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 1,1,2-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 1,1-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 1,1-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 1,1-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 1,2,3-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 1,2,3-Trichloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 1,2,4-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 1,2,4-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 1,2-Dibromo-3-chloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 1,2-Dibromoethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 1,2-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 1,2-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 1,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 1,3,5-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 1,3-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 1,3-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 1,4-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 2,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 2-Butanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 2-Hexanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| 4-Methyl-2-Pentanone(MIBK) | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Acetone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Benzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Bromobenzene | 0.75 | U | ug/L | 0.20 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Bromochloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Bromodichloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Bromoform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Bromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Carbon Disulfide | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-03**

3366027003

| Collected | Received | Matrix |
|---|---|---|
| 06/18/24 08:45 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Chlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Chlorodibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Chloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Chloroform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Chloromethane | 0.34 | J | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| cis-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| cis-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Dibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Dichlorodifluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Ethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Hexachlorobutadiene | 3.8 | U | ug/L | 0.43 | 3.8 | 5.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Isopropylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Methylene Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| mp-Xylene | 1.5 | U | ug/L | 0.66 | 1.5 | 2.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Naphthalene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| n-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| n-Propylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| o-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| o-Xylene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| p-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| p-Isopropyltoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| sec-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Styrene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| tert-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Tetrachloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Toluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| trans-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| trans-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Trichloroethene | 11.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Trichlorofluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |
| Vinyl Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:37 | 25240627A | 2524062768 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-04**

| | Collected | Received | Matrix |
|---|---|---|---|
| 3366027004 | 06/18/24 09:30 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 1,1,1-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 1,1,2,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 1,1,2-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 1,1-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 1,1-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 1,1-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 1,2,3-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 1,2,3-Trichloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 1,2,4-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 1,2,4-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 1,2-Dibromo-3-chloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 1,2-Dibromoethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 1,2-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 1,2-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 1,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 1,3,5-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 1,3-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 1,3-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 1,4-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 2,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 2-Butanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 2-Hexanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| 4-Methyl-2-Pentanone(MIBK) | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Acetone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Benzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Bromobenzene | 0.75 | U | ug/L | 0.20 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Bromochloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Bromodichloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Bromoform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Bromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Carbon Disulfide | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-04**

3366027004

| Collected | Received | Matrix |
|---|---|---|
| 06/18/24 09:30 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Chlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Chlorodibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Chloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Chloroform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Chloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| cis-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| cis-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Dibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Dichlorodifluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Ethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Hexachlorobutadiene | 3.8 | U | ug/L | 0.43 | 3.8 | 5.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Isopropylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Methylene Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| mp-Xylene | 1.5 | U | ug/L | 0.66 | 1.5 | 2.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Naphthalene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| n-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| n-Propylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| o-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| o-Xylene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| p-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| p-Isopropyltoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| sec-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Styrene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| tert-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Tetrachloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Toluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| trans-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| trans-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Trichloroethene | 1.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Trichlorofluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |
| Vinyl Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 01:58 | 25240627A | 2524062769 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-05**

3366027005

| Collected | Received | Matrix |
|---|---|---|
| 06/18/24 10:15 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 1,1,1-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 1,1,2,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 1,1,2-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 1,1-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 1,1-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 1,1-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 1,2,3-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 1,2,3-Trichloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 1,2,4-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 1,2,4-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 1,2-Dibromo-3-chloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 1,2-Dibromoethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 1,2-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 1,2-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 1,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 1,3,5-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 1,3-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 1,3-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 1,4-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 2,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 2-Butanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 2-Hexanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| 4-Methyl-2-Pentanone(MIBK) | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Acetone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Benzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Bromobenzene | 0.75 | U | ug/L | 0.20 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Bromochloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Bromodichloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Bromoform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Bromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Carbon Disulfide | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-05**

| | Collected | Received | Matrix |
|---|---|---|---|
| 3366027005 | 06/18/24 10:15 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Chlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Chlorodibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Chloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Chloroform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Chloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| cis-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| cis-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Dibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Dichlorodifluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Ethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Hexachlorobutadiene | 3.8 | U | ug/L | 0.43 | 3.8 | 5.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Isopropylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Methylene Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| mp-Xylene | 1.5 | U | ug/L | 0.66 | 1.5 | 2.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Naphthalene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| n-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| n-Propylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| o-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| o-Xylene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| p-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| p-Isopropyltoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| sec-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Styrene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| tert-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Tetrachloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Toluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| trans-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| trans-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Trichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Trichlorofluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |
| Vinyl Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:18 | 25240627A | 2524062770 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-06**

3366027006

| Collected | Received | Matrix |
|---|---|---|
| 06/18/24 10:15 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 1,1,1-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 1,1,2,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 1,1,2-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 1,1-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 1,1-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 1,1-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 1,2,3-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 1,2,3-Trichloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 1,2,4-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 1,2,4-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 1,2-Dibromo-3-chloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 1,2-Dibromoethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 1,2-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 1,2-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 1,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 1,3,5-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 1,3-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 1,3-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 1,4-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 2,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 2-Butanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 2-Hexanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| 4-Methyl-2-Pentanone(MIBK) | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Acetone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Benzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Bromobenzene | 0.75 | U | ug/L | 0.20 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Bromochloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Bromodichloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Bromoform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Bromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Carbon Disulfide | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-06**

3366027006

| Collected | Received | Matrix |
|---|---|---|
| 06/18/24 10:15 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Chlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Chlorodibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Chloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Chloroform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Chloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| cis-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| cis-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Dibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Dichlorodifluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Ethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Hexachlorobutadiene | 3.8 | U | ug/L | 0.43 | 3.8 | 5.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Isopropylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Methylene Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| mp-Xylene | 1.5 | U | ug/L | 0.66 | 1.5 | 2.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Naphthalene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| n-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| n-Propylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| o-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| o-Xylene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| p-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| p-Isopropyltoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| sec-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Styrene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| tert-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Tetrachloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Toluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| trans-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| trans-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Trichloroethene | 0.65 | J | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Trichlorofluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |
| Vinyl Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:38 | 25240627A | 2524062771 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-07**

| | Collected | Received | Matrix |
|---|---|---|---|
| 3366027007 | 06/18/24 11:00 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 1,1,1-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 1,1,2,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 1,1,2-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 1,1-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 1,1-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 1,1-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 1,2,3-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 1,2,3-Trichloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 1,2,4-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 1,2,4-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 1,2-Dibromo-3-chloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 1,2-Dibromoethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 1,2-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 1,2-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 1,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 1,3,5-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 1,3-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 1,3-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 1,4-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 2,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 2-Butanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 2-Hexanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| 4-Methyl-2-Pentanone(MIBK) | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Acetone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Benzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Bromobenzene | 0.75 | U | ug/L | 0.20 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Bromochloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Bromodichloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Bromoform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Bromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Carbon Disulfide | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-07**

3366027007

| Collected | Received | Matrix |
|---|---|---|
| 06/18/24 11:00 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Chlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Chlorodibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Chloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Chloroform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Chloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| cis-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| cis-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Dibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Dichlorodifluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Ethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Hexachlorobutadiene | 3.8 | U | ug/L | 0.43 | 3.8 | 5.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Isopropylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Methylene Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| mp-Xylene | 1.5 | U | ug/L | 0.66 | 1.5 | 2.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Naphthalene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| n-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| n-Propylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| o-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| o-Xylene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| p-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| p-Isopropyltoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| sec-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Styrene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| tert-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Tetrachloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Toluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| trans-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| trans-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Trichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Trichlorofluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |
| Vinyl Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 02:59 | 25240627A | 2524062772 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-08**

3366027008

| Collected | Received | Matrix |
|---|---|---|
| 06/18/24 11:40 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 1,1,1-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 1,1,2,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 1,1,2-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 1,1-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 1,1-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 1,1-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 1,2,3-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 1,2,3-Trichloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 1,2,4-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 1,2,4-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 1,2-Dibromo-3-chloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 1,2-Dibromoethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 1,2-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 1,2-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 1,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 1,3,5-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 1,3-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 1,3-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 1,4-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 2,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 2-Butanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 2-Hexanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| 4-Methyl-2-Pentanone(MIBK) | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Acetone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Benzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Bromobenzene | 0.75 | U | ug/L | 0.20 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Bromochloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Bromodichloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Bromoform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Bromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Carbon Disulfide | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-08**

3366027008

| Collected | Received | Matrix |
|---|---|---|
| 06/18/24 11:40 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Chlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Chlorodibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Chloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Chloroform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Chloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| cis-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| cis-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Dibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Dichlorodifluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Ethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Hexachlorobutadiene | 3.8 | U | ug/L | 0.43 | 3.8 | 5.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Isopropylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Methylene Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| mp-Xylene | 1.5 | U | ug/L | 0.66 | 1.5 | 2.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Naphthalene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| n-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| n-Propylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| o-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| o-Xylene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| p-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| p-Isopropyltoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| sec-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Styrene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| tert-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Tetrachloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Toluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| trans-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| trans-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Trichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Trichlorofluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |
| Vinyl Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:19 | 25240627A | 2524062773 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-09**

3366027009

| Collected | Received | Matrix |
|---|---|---|
| 06/18/24 11:40 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 1,1,1-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 1,1,2,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 1,1,2-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 1,1-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 1,1-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 1,1-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 1,2,3-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 1,2,3-Trichloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 1,2,4-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 1,2,4-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 1,2-Dibromo-3-chloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 1,2-Dibromoethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 1,2-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 1,2-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 1,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 1,3,5-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 1,3-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 1,3-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 1,4-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 2,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 2-Butanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 2-Hexanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| 4-Methyl-2-Pentanone(MIBK) | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Acetone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Benzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Bromobenzene | 0.75 | U | ug/L | 0.20 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Bromochloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Bromodichloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Bromoform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Bromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Carbon Disulfide | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-09**

3366027009

| Collected | Received | Matrix |
|---|---|---|
| 06/18/24 11:40 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Chlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Chlorodibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Chloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Chloroform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Chloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| cis-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| cis-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Dibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Dichlorodifluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Ethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Hexachlorobutadiene | 3.8 | U | ug/L | 0.43 | 3.8 | 5.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Isopropylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Methylene Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| mp-Xylene | 1.5 | U | ug/L | 0.66 | 1.5 | 2.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Naphthalene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| n-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| n-Propylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| o-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| o-Xylene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| p-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| p-Isopropyltoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| sec-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Styrene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| tert-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Tetrachloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Toluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| trans-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| trans-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Trichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Trichlorofluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |
| Vinyl Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 03:40 | 25240627A | 2524062774 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-10**

| | Collected | Received | Matrix |
|---|---|---|---|
| 3366027010 | 06/18/24 12:30 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 1,1,1-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 1,1,2,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 1,1,2-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 1,1-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 1,1-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 1,1-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 1,2,3-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 1,2,3-Trichloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 1,2,4-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 1,2,4-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 1,2-Dibromo-3-chloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 1,2-Dibromoethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 1,2-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 1,2-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 1,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 1,3,5-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 1,3-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 1,3-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 1,4-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 2,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 2-Butanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 2-Hexanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| 4-Methyl-2-Pentanone(MIBK) | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Acetone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Benzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Bromobenzene | 0.75 | U | ug/L | 0.20 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Bromochloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Bromodichloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Bromoform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Bromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Carbon Disulfide | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-10**

3366027010

| Collected | Received | Matrix |
|---|---|---|
| 06/18/24 12:30 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Chlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Chlorodibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Chloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Chloroform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Chloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| cis-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| cis-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Dibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Dichlorodifluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Ethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Hexachlorobutadiene | 3.8 | U | ug/L | 0.43 | 3.8 | 5.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Isopropylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Methylene Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| mp-Xylene | 1.5 | U | ug/L | 0.66 | 1.5 | 2.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Naphthalene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| n-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| n-Propylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| o-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| o-Xylene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| p-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| p-Isopropyltoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| sec-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Styrene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| tert-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Tetrachloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Toluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| trans-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| trans-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Trichloroethene | 0.54 | J | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Trichlorofluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |
| Vinyl Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 17:29 | 23240627 | 2324062720 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-11**

3366027011

| Collected | Received | Matrix |
|---|---|---|
| 06/18/24 00:00 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 1,1,1-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 1,1,2,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 1,1,2-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 1,1-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 1,1-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 1,1-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 1,2,3-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 1,2,3-Trichloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 1,2,4-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 1,2,4-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 1,2-Dibromo-3-chloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 1,2-Dibromoethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 1,2-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 1,2-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 1,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 1,3,5-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 1,3-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 1,3-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 1,4-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 2,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 2-Butanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 2-Hexanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| 4-Methyl-2-Pentanone(MIBK) | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Acetone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Benzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Bromobenzene | 0.75 | U | ug/L | 0.20 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Bromochloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Bromodichloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Bromoform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Bromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Carbon Disulfide | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-11**

3366027011

| Collected | Received | Matrix |
|---|---|---|
| 06/18/24 00:00 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Chlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Chlorodibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Chloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Chloroform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Chloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| cis-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| cis-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Dibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Dichlorodifluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Ethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Hexachlorobutadiene | 3.8 | U | ug/L | 0.43 | 3.8 | 5.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Isopropylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Methylene Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| mp-Xylene | 1.5 | U | ug/L | 0.66 | 1.5 | 2.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Naphthalene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| n-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| n-Propylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| o-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| o-Xylene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| p-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| p-Isopropyltoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| sec-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Styrene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| tert-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Tetrachloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Toluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| trans-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| trans-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Trichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Trichlorofluoromethane | 2.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |
| Vinyl Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:53 | 25240627A | 2524062757 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**MB for HBN 1235282 [VOMS/73629** | **Matrix**

3845268 | WQ

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 1,1,1-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 1,1,2,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 1,1,2-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 1,1-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 1,1-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 1,1-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 1,2,3-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 1,2,3-Trichloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 1,2,4-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 1,2,4-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 1,2-Dibromo-3-chloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 1,2-Dibromoethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 1,2-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 1,2-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 1,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 1,3,5-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 1,3-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 1,3-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 1,4-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 2,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 2-Butanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 2-Hexanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| 4-Methyl-2-Pentanone(MIBK) | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Acetone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Benzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Bromobenzene | 0.75 | U | ug/L | 0.20 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Bromochloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Bromodichloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Bromoform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Bromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Carbon Disulfide | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**MB for HBN 1235282 [VOMS/73629**

3845268

**Matrix**

WQ

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Chlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Chlorodibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Chloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Chloroform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Chloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| cis-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| cis-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Dibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Dichlorodifluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Ethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Hexachlorobutadiene | 3.8 | U | ug/L | 0.43 | 3.8 | 5.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Isopropylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Methylene Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| mp-Xylene | 1.5 | U | ug/L | 0.66 | 1.5 | 2.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Naphthalene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| n-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| n-Propylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| o-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| o-Xylene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| p-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| p-Isopropyltoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| sec-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Styrene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| tert-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Tetrachloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Toluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| trans-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| trans-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Trichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Trichlorofluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |
| Vinyl Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 10:53 | 23240627 | 2324062705 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

LCS for HBN 1235282 [VOMS/7362

3845269

Matrix: WQ

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 23.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 1,1,1-Trichloroethane | 21.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 1,1,2,2-Tetrachloroethane | 22.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 1,1,2-Trichloroethane | 22.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 1,1-Dichloroethane | 19.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 1,1-Dichloroethene | 21.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 1,1-Dichloropropene | 21.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 1,2,3-Trichlorobenzene | 23.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 1,2,3-Trichloropropane | 21.3 | | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 1,2,4-Trichlorobenzene | 25.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 1,2,4-Trimethylbenzene | 23.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 1,2-Dibromo-3-chloropropane | 20.6 | | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 1,2-Dibromoethane | 22 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 1,2-Dichlorobenzene | 23.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 1,2-Dichloroethane | 21 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 1,2-Dichloropropane | 22.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 1,3,5-Trimethylbenzene | 23.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 1,3-Dichlorobenzene | 22.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 1,3-Dichloropropane | 22.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 1,4-Dichlorobenzene | 22.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 2,2-Dichloropropane | 23.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 2-Butanone | 110 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 2-Hexanone | 102 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| 4-Methyl-2-Pentanone(MIBK) | 103 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Acetone | 121 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Benzene | 21.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Bromobenzene | 22.2 | | ug/L | 0.20 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Bromochloromethane | 22.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Bromodichloromethane | 22.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Bromoform | 19.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Bromomethane | 19.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Carbon Disulfide | 21.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

### LCS for HBN 1235282 [VOMS/7362

3845269

**Matrix** WQ

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 19.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Chlorobenzene | 23.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Chlorodibromomethane | 20.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Chloroethane | 20.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Chloroform | 21.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Chloromethane | 19.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| cis-1,2-Dichloroethene | 22.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| cis-1,3-Dichloropropene | 20.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Dibromomethane | 21.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Dichlorodifluoromethane | 18.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Ethylbenzene | 22.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Hexachlorobutadiene | 24.2 | | ug/L | 0.43 | 3.8 | 5.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Isopropylbenzene | 23.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Methylene Chloride | 21.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| mp-Xylene | 46.3 | | ug/L | 0.66 | 1.5 | 2.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Naphthalene | 21.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| n-Butylbenzene | 23.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| n-Propylbenzene | 22.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| o-Chlorotoluene | 23.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| o-Xylene | 23.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| p-Chlorotoluene | 23.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| p-Isopropyltoluene | 23.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| sec-Butylbenzene | 23.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Styrene | 22.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| tert-Butylbenzene | 22.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Tetrachloroethene | 21.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Toluene | 22.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| trans-1,2-Dichloroethene | 21.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| trans-1,3-Dichloropropene | 21.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Trichloroethene | 20.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Trichlorofluoromethane | 18.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |
| Vinyl Chloride | 20.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 09:34 | 23240627 | 2324062702 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-10MS**

3845270

| Collected | Received | Matrix |
|---|---|---|
| 06/18/24 12:30 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 23.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 1,1,1-Trichloroethane | 24.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 1,1,2,2-Tetrachloroethane | 23 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 1,1,2-Trichloroethane | 22.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 1,1-Dichloroethane | 21.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 1,1-Dichloroethene | 24.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 1,1-Dichloropropene | 23.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 1,2,3-Trichlorobenzene | 22 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 1,2,3-Trichloropropane | 22.5 | | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 1,2,4-Trichlorobenzene | 24.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 1,2,4-Trimethylbenzene | 24.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 1,2-Dibromo-3-chloropropane | 20.2 | | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 1,2-Dibromoethane | 22.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 1,2-Dichlorobenzene | 23 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 1,2-Dichloroethane | 22.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 1,2-Dichloropropane | 23.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 1,3,5-Trimethylbenzene | 24.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 1,3-Dichlorobenzene | 22.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 1,3-Dichloropropane | 23.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 1,4-Dichlorobenzene | 22.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 2,2-Dichloropropane | 22.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 2-Butanone | 104 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 2-Hexanone | 100 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| 4-Methyl-2-Pentanone(MIBK) | 102 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Acetone | 108 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Benzene | 23.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Bromobenzene | 22.8 | | ug/L | 0.20 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Bromochloromethane | 23.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Bromodichloromethane | 23.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Bromoform | 20.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Bromomethane | 22.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Carbon Disulfide | 23 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-10MS**

| | Collected | Received | Matrix |
|---|---|---|---|
| 3845270 | 06/18/24 12:30 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 22.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Chlorobenzene | 23.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Chlorodibromomethane | 20.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Chloroethane | 23.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Chloroform | 22.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Chloromethane | 21.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| cis-1,2-Dichloroethene | 23.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| cis-1,3-Dichloropropene | 20.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Dibromomethane | 22.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Dichlorodifluoromethane | 22.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Ethylbenzene | 23.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Hexachlorobutadiene | 23 | | ug/L | 0.43 | 3.8 | 5.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Isopropylbenzene | 25.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Methylene Chloride | 23.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| mp-Xylene | 47.5 | | ug/L | 0.66 | 1.5 | 2.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Naphthalene | 20.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| n-Butylbenzene | 23.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| n-Propylbenzene | 22.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| o-Chlorotoluene | 23.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| o-Xylene | 23.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| p-Chlorotoluene | 23.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| p-Isopropyltoluene | 23.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| sec-Butylbenzene | 24.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Styrene | 21.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| tert-Butylbenzene | 24.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Tetrachloroethene | 21.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Toluene | 23 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| trans-1,2-Dichloroethene | 23.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| trans-1,3-Dichloropropene | 21.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Trichloroethene | 23.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Trichlorofluoromethane | 22.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |
| Vinyl Chloride | 22.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:08 | 23240627 | 2324062725 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-10MSD**

| | Collected | Received | Matrix |
|---|---|---|---|
| 3845271 | 06/18/24 12:30 | 06/26/24 09:36 | GW |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 22.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 1,1,1-Trichloroethane | 23.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 1,1,2,2-Tetrachloroethane | 21 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 1,1,2-Trichloroethane | 21.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 1,1-Dichloroethane | 19.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 1,1-Dichloroethene | 22.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 1,1-Dichloropropene | 21.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 1,2,3-Trichlorobenzene | 19.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 1,2,3-Trichloropropane | 20.8 | | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 1,2,4-Trichlorobenzene | 22.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 1,2,4-Trimethylbenzene | 21.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 1,2-Dibromo-3-chloropropane | 19.1 | | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 1,2-Dibromoethane | 21.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 1,2-Dichlorobenzene | 20.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 1,2-Dichloroethane | 21.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 1,2-Dichloropropane | 21.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 1,3,5-Trimethylbenzene | 21.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 1,3-Dichlorobenzene | 20.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 1,3-Dichloropropane | 21.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 1,4-Dichlorobenzene | 19.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 2,2-Dichloropropane | 20 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 2-Butanone | 101 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 2-Hexanone | 92.4 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| 4-Methyl-2-Pentanone(MIBK) | 95.8 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Acetone | 103 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Benzene | 21.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Bromobenzene | 20.3 | | ug/L | 0.20 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Bromochloromethane | 22.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Bromodichloromethane | 22.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Bromoform | 18.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Bromomethane | 20.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Carbon Disulfide | 20.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**HS24061196-10MSD** | Collected: 06/18/24 12:30 | Received: 06/26/24 09:36 | Matrix: GW

3845271

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 19.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Chlorobenzene | 21.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Chlorodibromomethane | 19.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Chloroethane | 21 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Chloroform | 20.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Chloromethane | 19.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| cis-1,2-Dichloroethene | 22.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| cis-1,3-Dichloropropene | 19 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Dibromomethane | 22.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Dichlorodifluoromethane | 19.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Ethylbenzene | 21.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Hexachlorobutadiene | 20.4 | | ug/L | 0.43 | 3.8 | 5.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Isopropylbenzene | 21.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Methylene Chloride | 22 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| mp-Xylene | 43.4 | | ug/L | 0.66 | 1.5 | 2.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Naphthalene | 19.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| n-Butylbenzene | 20.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| n-Propylbenzene | 20 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| o-Chlorotoluene | 20.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| o-Xylene | 21.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| p-Chlorotoluene | 20.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| p-Isopropyltoluene | 20.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| sec-Butylbenzene | 21.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Styrene | 19.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| tert-Butylbenzene | 20.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Tetrachloroethene | 19.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Toluene | 20.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| trans-1,2-Dichloroethene | 21.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| trans-1,3-Dichloropropene | 19.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Trichloroethene | 21.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Trichlorofluoromethane | 20.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |
| Vinyl Chloride | 20.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:28 | 23240627 | 2324062726 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**MB for HBN 1235666 [VOMS/73642**

3845608

**Matrix**

WQ

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 1,1,1-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 1,1,2,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 1,1,2-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 1,1-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 1,1-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 1,1-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 1,2,3-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 1,2,3-Trichloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 1,2,4-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 1,2,4-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 1,2-Dibromo-3-chloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 1,2-Dibromoethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 1,2-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 1,2-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 1,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 1,3,5-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 1,3-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 1,3-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 1,4-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 2,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 2-Butanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 2-Hexanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| 4-Methyl-2-Pentanone(MIBK) | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Acetone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Benzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Bromobenzene | 0.75 | U | ug/L | 0.20 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Bromochloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Bromodichloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Bromoform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Bromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Carbon Disulfide | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**MB for HBN 1235666 [VOMS/73642**

3845608

**Matrix**

WQ

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Chlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Chlorodibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Chloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Chloroform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Chloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| cis-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| cis-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Dibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Dichlorodifluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Ethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Hexachlorobutadiene | 3.8 | U | ug/L | 0.43 | 3.8 | 5.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Isopropylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Methylene Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| mp-Xylene | 1.5 | U | ug/L | 0.66 | 1.5 | 2.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Naphthalene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| n-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| n-Propylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| o-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| o-Xylene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| p-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| p-Isopropyltoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| sec-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Styrene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| tert-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Tetrachloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Toluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| trans-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| trans-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Trichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Trichlorofluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |
| Vinyl Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 21:10 | 25240627A | 2524062755 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

LCS for HBN 1235666 [VOMS/7364

3845609

Matrix: WQ

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 19.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 1,1,1-Trichloroethane | 20.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 1,1,2,2-Tetrachloroethane | 22.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 1,1,2-Trichloroethane | 21.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 1,1-Dichloroethane | 19.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 1,1-Dichloroethene | 19.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 1,1-Dichloropropene | 19.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 1,2,3-Trichlorobenzene | 19.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 1,2,3-Trichloropropane | 21.9 | | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 1,2,4-Trichlorobenzene | 23.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 1,2,4-Trimethylbenzene | 20 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 1,2-Dibromo-3-chloropropane | 18.9 | | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 1,2-Dibromoethane | 19.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 1,2-Dichlorobenzene | 22 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 1,2-Dichloroethane | 20 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 1,2-Dichloropropane | 20.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 1,3,5-Trimethylbenzene | 21.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 1,3-Dichlorobenzene | 21.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 1,3-Dichloropropane | 21.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 1,4-Dichlorobenzene | 21.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 2,2-Dichloropropane | 21 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 2-Butanone | 105 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 2-Hexanone | 103 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| 4-Methyl-2-Pentanone(MIBK) | 102 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Acetone | 112 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Benzene | 19.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Bromobenzene | 21.6 | | ug/L | 0.20 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Bromochloromethane | 21.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Bromodichloromethane | 18.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Bromoform | 17.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Bromomethane | 16.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Carbon Disulfide | 19 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

### LCS for HBN 1235666 [VOMS/7364

| | Matrix |
|---|---|
| 3845609 | WQ |

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 17.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Chlorobenzene | 20.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Chlorodibromomethane | 18.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Chloroethane | 18 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Chloroform | 20.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Chloromethane | 17.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| cis-1,2-Dichloroethene | 20.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| cis-1,3-Dichloropropene | 18.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Dibromomethane | 20.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Dichlorodifluoromethane | 16.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Ethylbenzene | 19.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Hexachlorobutadiene | 20.2 | | ug/L | 0.43 | 3.8 | 5.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Isopropylbenzene | 22.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Methylene Chloride | 19.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| mp-Xylene | 37.6 | | ug/L | 0.66 | 1.5 | 2.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Naphthalene | 20 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| n-Butylbenzene | 21.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| n-Propylbenzene | 21.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| o-Chlorotoluene | 21.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| o-Xylene | 19.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| p-Chlorotoluene | 22.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| p-Isopropyltoluene | 21.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| sec-Butylbenzene | 21.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Styrene | 19.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| tert-Butylbenzene | 21.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Tetrachloroethene | 19.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Toluene | 19.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| trans-1,2-Dichloroethene | 20 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| trans-1,3-Dichloropropene | 19.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Trichloroethene | 19.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Trichlorofluoromethane | 17 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |
| Vinyl Chloride | 16.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/27/24 19:49 | 25240627A | 2524062752 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**MB for HBN 1236144 [VOMS/73650**

3845975

**Matrix**

WQ

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 1,1,1-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 1,1,2,2-Tetrachloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 1,1,2-Trichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 1,1-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 1,1-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 1,1-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 1,2,3-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 1,2,3-Trichloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 1,2,4-Trichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 1,2,4-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 1,2-Dibromo-3-chloropropane | 2.5 | U | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 1,2-Dibromoethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 1,2-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 1,2-Dichloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 1,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 1,3,5-Trimethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 1,3-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 1,3-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 1,4-Dichlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 2,2-Dichloropropane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 2-Butanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 2-Hexanone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| 4-Methyl-2-Pentanone(MIBK) | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Acetone | 3.8 | U | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Benzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Bromobenzene | 0.75 | U | ug/L | 0.20 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Bromochloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Bromodichloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Bromoform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Bromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Carbon Disulfide | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

**MB for HBN 1236144 [VOMS/73650** | **Matrix**

3845975 | WQ

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Chlorobenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Chlorodibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Chloroethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Chloroform | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Chloromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| cis-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| cis-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Dibromomethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Dichlorodifluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Ethylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Hexachlorobutadiene | 3.8 | U | ug/L | 0.43 | 3.8 | 5.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Isopropylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Methylene Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| mp-Xylene | 1.5 | U | ug/L | 0.66 | 1.5 | 2.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Naphthalene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| n-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| n-Propylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| o-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| o-Xylene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| p-Chlorotoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| p-Isopropyltoluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| sec-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Styrene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| tert-Butylbenzene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Tetrachloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Toluene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| trans-1,2-Dichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| trans-1,3-Dichloropropene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Trichloroethene | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Trichlorofluoromethane | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |
| Vinyl Chloride | 0.75 | U | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 11:24 | 25240628 | 2524062804 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

LCS for HBN 1236144 [VOMS/7365

3845976

Matrix: WQ

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 19.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 1,1,1-Trichloroethane | 21.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 1,1,2,2-Tetrachloroethane | 21.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 1,1,2-Trichloroethane | 20.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 1,1-Dichloroethane | 20.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 1,1-Dichloroethene | 21.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 1,1-Dichloropropene | 20.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 1,2,3-Trichlorobenzene | 19.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 1,2,3-Trichloropropane | 21.2 | | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 1,2,4-Trichlorobenzene | 24.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 1,2,4-Trimethylbenzene | 20.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 1,2-Dibromo-3-chloropropane | 18.9 | | ug/L | 1.6 | 2.5 | 5.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 1,2-Dibromoethane | 19 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 1,2-Dichlorobenzene | 21.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 1,2-Dichloroethane | 19.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 1,2-Dichloropropane | 20.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 1,3,5-Trimethylbenzene | 21.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 1,3-Dichlorobenzene | 22.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 1,3-Dichloropropane | 21.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 1,4-Dichlorobenzene | 21.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 2,2-Dichloropropane | 21.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 2-Butanone | 104 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 2-Hexanone | 103 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| 4-Methyl-2-Pentanone(MIBK) | 104 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Acetone | 108 | | ug/L | 1.6 | 3.8 | 5.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Benzene | 19.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Bromobenzene | 20.1 | | ug/L | 0.20 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Bromochloromethane | 21.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Bromodichloromethane | 18.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Bromoform | 18.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Bromomethane | 20 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Carbon Disulfide | 21.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |

# Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061196 - AHH131

Workorder 3366027

## Volatiles by EPA 8260D

LCS for HBN 1236144 [VOMS/7365

3845976

Matrix: WQ

| Analyte | Result | Q | Units | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 17.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Chlorobenzene | 20.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Chlorodibromomethane | 18.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Chloroethane | 20.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Chloroform | 20.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Chloromethane | 20.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| cis-1,2-Dichloroethene | 21.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| cis-1,3-Dichloropropene | 18.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Dibromomethane | 20.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Dichlorodifluoromethane | 20.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Ethylbenzene | 19.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Hexachlorobutadiene | 22.7 | | ug/L | 0.43 | 3.8 | 5.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Isopropylbenzene | 24.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Methylene Chloride | 21.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| mp-Xylene | 38.9 | | ug/L | 0.66 | 1.5 | 2.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Naphthalene | 19.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| n-Butylbenzene | 21.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| n-Propylbenzene | 21.1 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| o-Chlorotoluene | 21.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| o-Xylene | 19.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| p-Chlorotoluene | 22.4 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| p-Isopropyltoluene | 21.8 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| sec-Butylbenzene | 22.9 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Styrene | 21.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| tert-Butylbenzene | 22.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Tetrachloroethene | 20.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Toluene | 19.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| trans-1,2-Dichloroethene | 21.5 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| trans-1,3-Dichloropropene | 19.6 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Trichloroethene | 20.2 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Trichlorofluoromethane | 19.3 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |
| Vinyl Chloride | 19.7 | | ug/L | 0.33 | 0.75 | 1.0 | 1 | 06/28/24 10:23 | 25240628 | 2524062802 |

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Form 2

# System Monitoring Compound Recovery

## Volatiles by EPA 8260D

Workorder

**3366027**

Client

ALS Houston

Project

AHH131|HS24061196

07/09/2024

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# Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

RUNID 23240627

## Volatiles by EPA 8260D

| HS24061196-10 | | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|---|
| 3366027010 | | MS23 | GW | 06/27/24 17:29 | ug/L | 1 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2324062720.D | 29.7 | 30 | 99 | | 81-118 |
| 4-Bromofluorobenzene | 2324062720.D | 29.1 | 30 | 97 | | 85-114 |
| Dibromofluoromethane | 2324062720.D | 29.3 | 30 | 98 | | 80-119 |
| Toluene-d8 | 2324062720.D | 29.4 | 30 | 98 | | 89-112 |

| MB for HBN 1235282 [VOMS/73629 | | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|---|
| 3845268 | | MS23 | WQ | | ug/L | 1 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2324062705.D | 29.3 | 30 | 98 | | 81-118 |
| 4-Bromofluorobenzene | 2324062705.D | 29.1 | 30 | 97 | | 85-114 |
| Dibromofluoromethane | 2324062705.D | 29.1 | 30 | 97 | | 80-119 |
| Toluene-d8 | 2324062705.D | 29.4 | 30 | 98 | | 89-112 |

| LCS for HBN 1235282 [VOMS/7362 | | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|---|
| 3845269 | | MS23 | WQ | 06/27/24 09:34 | ug/L | 1 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2324062702.D | 29.4 | 30 | 98 | | 81-118 |
| 4-Bromofluorobenzene | 2324062702.D | 29.4 | 30 | 98 | | 85-114 |
| Dibromofluoromethane | 2324062702.D | 29 | 30 | 97 | | 80-119 |
| Toluene-d8 | 2324062702.D | 30.1 | 30 | 100 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

RUNID 23240627

## Volatiles by EPA 8260D

### HS24061196-10MS

| | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| 3845270 | MS23 | GW | 06/27/24 19:08 | ug/L | 1 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2324062725.D | 31.7 | 30 | 106 | | 81-118 |
| 4-Bromofluorobenzene | 2324062725.D | 30.9 | 30 | 103 | | 85-114 |
| Dibromofluoromethane | 2324062725.D | 30.6 | 30 | 102 | | 80-119 |
| Toluene-d8 | 2324062725.D | 30.2 | 30 | 101 | | 89-112 |

### HS24061196-10MSD

| | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| 3845271 | MS23 | GW | 06/27/24 19:28 | ug/L | 1 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2324062726.D | 31.2 | 30 | 104 | | 81-118 |
| 4-Bromofluorobenzene | 2324062726.D | 28.8 | 30 | 96 | | 85-114 |
| Dibromofluoromethane | 2324062726.D | 30.7 | 30 | 102 | | 80-119 |
| Toluene-d8 | 2324062726.D | 30.2 | 30 | 101 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

RUNID 25240627A

## Volatiles by EPA 8260D

### HS24061196-01

| | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| 3366027001 | MS25 | GW | 06/28/24 00:56 | ug/L | 1 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2524062766.D | 31.7 | 30 | 106 | | 81-118 |
| 4-Bromofluorobenzene | 2524062766.D | 29.4 | 30 | 98 | | 85-114 |
| Dibromofluoromethane | 2524062766.D | 28.2 | 30 | 94 | | 80-119 |
| Toluene-d8 | 2524062766.D | 29.5 | 30 | 98 | | 89-112 |

### HS24061196-03

| | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| 3366027003 | MS25 | GW | 06/28/24 01:37 | ug/L | 1 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2524062768.D | 30.9 | 30 | 103 | | 81-118 |
| 4-Bromofluorobenzene | 2524062768.D | 30.5 | 30 | 102 | | 85-114 |
| Dibromofluoromethane | 2524062768.D | 27.7 | 30 | 92 | | 80-119 |
| Toluene-d8 | 2524062768.D | 30.9 | 30 | 103 | | 89-112 |

### HS24061196-04

| | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| 3366027004 | MS25 | GW | 06/28/24 01:58 | ug/L | 1 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2524062769.D | 32.8 | 30 | 109 | | 81-118 |
| 4-Bromofluorobenzene | 2524062769.D | 29.1 | 30 | 97 | | 85-114 |
| Dibromofluoromethane | 2524062769.D | 29.4 | 30 | 98 | | 80-119 |
| Toluene-d8 | 2524062769.D | 30.5 | 30 | 102 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

RUNID 25240627A

## Volatiles by EPA 8260D

### HS24061196-05

| | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| 3366027005 | MS25 | GW | 06/28/24 02:18 | ug/L | 1 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2524062770.D | 31.1 | 30 | 104 | | 81-118 |
| 4-Bromofluorobenzene | 2524062770.D | 29.5 | 30 | 98 | | 85-114 |
| Dibromofluoromethane | 2524062770.D | 28.6 | 30 | 95 | | 80-119 |
| Toluene-d8 | 2524062770.D | 30.8 | 30 | 103 | | 89-112 |

### HS24061196-06

| | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| 3366027006 | MS25 | GW | 06/28/24 02:38 | ug/L | 1 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2524062771.D | 33 | 30 | 110 | | 81-118 |
| 4-Bromofluorobenzene | 2524062771.D | 31.7 | 30 | 106 | | 85-114 |
| Dibromofluoromethane | 2524062771.D | 29.9 | 30 | 100 | | 80-119 |
| Toluene-d8 | 2524062771.D | 32.3 | 30 | 108 | | 89-112 |

### HS24061196-07

| | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| 3366027007 | MS25 | GW | 06/28/24 02:59 | ug/L | 1 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2524062772.D | 31.6 | 30 | 105 | | 81-118 |
| 4-Bromofluorobenzene | 2524062772.D | 27.1 | 30 | 90 | | 85-114 |
| Dibromofluoromethane | 2524062772.D | 28.7 | 30 | 96 | | 80-119 |
| Toluene-d8 | 2524062772.D | 29.6 | 30 | 99 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24061196 - AHH131

Workorder 3366027

RUNID 25240627A

## Volatiles by EPA 8260D

### HS24061196-08

| | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| 3366027008 | MS25 | GW | 06/28/24 03:19 | ug/L | 1 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2524062773.D | 30.9 | 30 | 103 | | 81-118 |
| 4-Bromofluorobenzene | 2524062773.D | 30.8 | 30 | 103 | | 85-114 |
| Dibromofluoromethane | 2524062773.D | 28.5 | 30 | 95 | | 80-119 |
| Toluene-d8 | 2524062773.D | 30.5 | 30 | 102 | | 89-112 |

### HS24061196-09

| | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| 3366027009 | MS25 | GW | 06/28/24 03:40 | ug/L | 1 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2524062774.D | 32.5 | 30 | 108 | | 81-118 |
| 4-Bromofluorobenzene | 2524062774.D | 30.1 | 30 | 100 | | 85-114 |
| Dibromofluoromethane | 2524062774.D | 29.5 | 30 | 99 | | 80-119 |
| Toluene-d8 | 2524062774.D | 32.5 | 30 | 108 | | 89-112 |

### HS24061196-11

| | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| 3366027011 | MS25 | GW | 06/27/24 21:53 | ug/L | 1 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2524062757.D | 30.4 | 30 | 101 | | 81-118 |
| 4-Bromofluorobenzene | 2524062757.D | 29.7 | 30 | 99 | | 85-114 |
| Dibromofluoromethane | 2524062757.D | 26.8 | 30 | 89 | | 80-119 |
| Toluene-d8 | 2524062757.D | 30.9 | 30 | 103 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24061196 - AHH131

Workorder 3366027

RUNID 25240627A

## Volatiles by EPA 8260D

### MB for HBN 1235666 [VOMS/73642

| | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| 3845608 | MS25 | WQ | | ug/L | 1 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2524062755.D | 29.9 | 30 | 100 | | 81-118 |
| 4-Bromofluorobenzene | 2524062755.D | 29.7 | 30 | 99 | | 85-114 |
| Dibromofluoromethane | 2524062755.D | 27.6 | 30 | 92 | | 80-119 |
| Toluene-d8 | 2524062755.D | 30.2 | 30 | 101 | | 89-112 |

### LCS for HBN 1235666 [VOMS/7364

| | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| 3845609 | MS25 | WQ | 06/27/24 19:49 | ug/L | 1 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2524062752.D | 30.6 | 30 | 102 | | 81-118 |
| 4-Bromofluorobenzene | 2524062752.D | 30.6 | 30 | 102 | | 85-114 |
| Dibromofluoromethane | 2524062752.D | 29.8 | 30 | 99 | | 80-119 |
| Toluene-d8 | 2524062752.D | 30.9 | 30 | 103 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24061196 - AHH131

Workorder 3366027

RUNID 25240628

## Volatiles by EPA 8260D

### HS24061196-01

| | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| 3366027001 | MS25 | GW | 06/28/24 18:12 | ug/L | 50 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2524062825.D | 1620 | 1500 | 108 | | 81-118 |
| 4-Bromofluorobenzene | 2524062825.D | 1540 | 1500 | 102 | | 85-114 |
| Dibromofluoromethane | 2524062825.D | 1460 | 1500 | 97 | | 80-119 |
| Toluene-d8 | 2524062825.D | 1560 | 1500 | 104 | | 89-112 |

### HS24061196-02

| | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| 3366027002 | MS25 | GW | 06/28/24 13:06 | ug/L | 1 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2524062809.D | 29.8 | 30 | 99 | | 81-118 |
| 4-Bromofluorobenzene | 2524062809.D | 29.9 | 30 | 100 | | 85-114 |
| Dibromofluoromethane | 2524062809.D | 27.3 | 30 | 91 | | 80-119 |
| Toluene-d8 | 2524062809.D | 30 | 30 | 100 | | 89-112 |

### MB for HBN 1236144 [VOMS/73650

| | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| 3845975 | MS25 | WQ | | ug/L | 1 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2524062804.D | 30.6 | 30 | 102 | | 81-118 |
| 4-Bromofluorobenzene | 2524062804.D | 26.8 | 30 | 89 | | 85-114 |
| Dibromofluoromethane | 2524062804.D | 27.6 | 30 | 92 | | 80-119 |
| Toluene-d8 | 2524062804.D | 30.3 | 30 | 101 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24061196 - AHH131

Workorder 3366027

RUNID 25240628

## Volatiles by EPA 8260D

| LCS for HBN 1236144 [VOMS/7365 | Instrument | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| 3845976 | MS25 | WQ | 06/28/24 10:23 | ug/L | 1 |

| Surrogate | File ID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 2524062802.D | 30.4 | 30 | 101 | | 81-118 |
| 4-Bromofluorobenzene | 2524062802.D | 29.2 | 30 | 97 | | 85-114 |
| Dibromofluoromethane | 2524062802.D | 29.7 | 30 | 99 | | 80-119 |
| Toluene-d8 | 2524062802.D | 30.3 | 30 | 101 | | 89-112 |

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Form 3A

# Matrix Spike/Spike Duplicate Recovery

## Volatiles by EPA 8260D

Workorder

**3366027**

Client

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AHH131|HS24061196

07/09/2024

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# Form 3A - Matrix Spike/Spike Duplicate Recovery

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

SAMPLENUM MS-3845270

## Volatiles by EPA 8260D

| HS24061196-10 (3366027010) | | | 3845270MS | | 3845271MSD | |
|---|---|---|---|---|---|---|
| **Sample Matrix** | GW | **Prep Method** | **Run Date** | 06/27/24 | **Run Date** | 06/27/24 |
| **Result Units** | ug/L | | **Run Time** | 19:08 | **Run Time** | 19:28 |

| Analyte | %R Limits | DF | Sample Result | MS Result | Spike Added | %R | Q | MSD Result | Spike Added | %R | Q | RPD Limit | RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 78-124 | 1 | 0.75U | 23.8 | 20 | **119** | | 22.4 | 20 | **112** | | 30 | **6.18** | |
| 1,1,1-Trichloroethane | 74-131 | 1 | 0.75U | 24.7 | 20 | **123** | | 23.2 | 20 | **116** | | 30 | **6.07** | |
| 1,1,2,2-Tetrachloroethane | 71-121 | 1 | 0.75U | 23.0 | 20 | **115** | | 21.0 | 20 | **105** | | 30 | **9.25** | |
| 1,1,2-Trichloroethane | 80-119 | 1 | 0.75U | 22.4 | 20 | **112** | | 21.3 | 20 | **107** | | 30 | **4.95** | |
| 1,1-Dichloroethane | 77-125 | 1 | 0.75U | 21.3 | 20 | **107** | | 19.9 | 20 | **99** | | 30 | **7.06** | |
| 1,1-Dichloroethene | 71-131 | 1 | 0.75U | 24.3 | 20 | **121** | | 22.4 | 20 | **112** | | 30 | **8.3** | |
| 1,1-Dichloropropene | 79-125 | 1 | 0.75U | 23.7 | 20 | **119** | | 21.6 | 20 | **108** | | 30 | **9.24** | |
| 1,2,3-Trichlorobenzene | 69-129 | 1 | 0.75U | 22.0 | 20 | **110** | | 19.7 | 20 | **99** | | 30 | **10.7** | |
| 1,2,3-Trichloropropane | 73-122 | 1 | 2.5U | 22.5 | 20 | **113** | | 20.8 | 20 | **104** | | 30 | **8.1** | |
| 1,2,4-Trichlorobenzene | 69-130 | 1 | 0.75U | 24.3 | 20 | **121** | | 22.2 | 20 | **111** | | 30 | **8.86** | |
| 1,2,4-Trimethylbenzene | 76-124 | 1 | 0.75U | 24.2 | 20 | **121** | | 21.3 | 20 | **106** | | 30 | **13** | |
| 1,2-Dibromo-3-chloropropane | 62-128 | 1 | 2.5U | 20.2 | 20 | **101** | | 19.1 | 20 | **95** | | 30 | **5.76** | |
| 1,2-Dibromoethane | 77-121 | 1 | 0.75U | 22.3 | 20 | **111** | | 21.1 | 20 | **106** | | 30 | **5.32** | |
| 1,2-Dichlorobenzene | 80-119 | 1 | 0.75U | 23.0 | 20 | **115** | | 20.3 | 20 | **102** | | 30 | **12.2** | |
| 1,2-Dichloroethane | 73-128 | 1 | 0.75U | 22.8 | 20 | **114** | | 21.4 | 20 | **107** | | 30 | **5.99** | |
| 1,2-Dichloropropane | 78-122 | 1 | 0.75U | 23.4 | 20 | **117** | | 21.6 | 20 | **108** | | 30 | **8.03** | |
| 1,3,5-Trimethylbenzene | 75-124 | 1 | 0.75U | 24.3 | 20 | **121** | | 21.6 | 20 | **108** | | 30 | **11.8** | |
| 1,3-Dichlorobenzene | 80-119 | 1 | 0.75U | 22.9 | 20 | **115** | | 20.3 | 20 | **102** | | 30 | **12** | |
| 1,3-Dichloropropane | 80-119 | 1 | 0.75U | 23.1 | 20 | **115** | | 21.6 | 20 | **108** | | 30 | **6.58** | |
| 1,4-Dichlorobenzene | 79-118 | 1 | 0.75U | 22.4 | 20 | **112** | | 19.9 | 20 | **99** | | 30 | **11.8** | |
| 2,2-Dichloropropane | 60-139 | 1 | 0.75U | 22.5 | 20 | **112** | | 20.0 | 20 | **100** | | 30 | **11.7** | |
| 2-Butanone | 56-143 | 1 | 3.8U | 104 | 100 | **104** | | 101 | 100 | **101** | | 30 | **2.82** | |
| 2-Hexanone | 57-139 | 1 | 3.8U | 100 | 100 | **100** | | 92.4 | 100 | **92** | | 30 | **8** | |
| 4-Methyl-2-Pentanone(MIBK) | 67-130 | 1 | 3.8U | 102 | 100 | **102** | | 95.8 | 100 | **96** | | 30 | **6.06** | |
| Acetone | 39-160 | 1 | 3.8U | 108 | 100 | **108** | | 103 | 100 | **103** | | 30 | **4.9** | |
| Benzene | 79-120 | 1 | 0.75U | 23.4 | 20 | **117** | | 21.4 | 20 | **107** | | 30 | **8.71** | |
| Bromobenzene | 80-120 | 1 | 0.75U | 22.8 | 20 | **114** | | 20.3 | 20 | **101** | | 30 | **11.8** | |
| Bromochloromethane | 78-123 | 1 | 0.75U | 23.1 | 20 | **116** | | 22.8 | 20 | **114** | | 30 | **1.52** | |
| Bromodichloromethane | 79-125 | 1 | 0.75U | 23.5 | 20 | **117** | | 22.4 | 20 | **112** | | 30 | **4.51** | |
| Bromoform | 66-130 | 1 | 0.75U | 20.2 | 20 | **101** | | 18.9 | 20 | **94** | | 30 | **6.94** | |
| Bromomethane | 53-141 | 1 | 0.75U | 22.3 | 20 | **111** | | 20.7 | 20 | **104** | | 30 | **7.4** | |
| Carbon Disulfide | 64-133 | 1 | 0.75U | 23.0 | 20 | **115** | | 20.9 | 20 | **104** | | 30 | **9.82** | |

# Form 3A - Matrix Spike/Spike Duplicate Recovery

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

SAMPLENUM MS-3845270

## Volatiles by EPA 8260D

| HS24061196-10 (3366027010) | | | 3845270MS | | 3845271MSD | |
|---|---|---|---|---|---|---|
| **Sample Matrix** | GW | **Prep Method** | **Run Date** | 06/27/24 | **Run Date** | 06/27/24 |
| **Result Units** | ug/L | | **Run Time** | 19:08 | **Run Time** | 19:28 |

| Analyte | %R Limits | DF | Sample Result | MS Result | Spike Added | %R | Q | MSD Result | Spike Added | %R | Q | RPD Limit | RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 72-136 | 1 | 0.75U | 22.5 | 20 | **112** | | 19.9 | 20 | **100** | | 30 | **12.1** | |
| Chlorobenzene | 82-118 | 1 | 0.75U | 23.1 | 20 | **115** | | 21.3 | 20 | **106** | | 30 | **8.14** | |
| Chlorodibromomethane | 74-126 | 1 | 0.75U | 20.4 | 20 | **102** | | 19.2 | 20 | **96** | | 30 | **6.38** | |
| Chloroethane | 60-138 | 1 | 0.75U | 23.8 | 20 | **119** | | 21.0 | 20 | **105** | | 30 | **12.7** | |
| Chloroform | 79-124 | 1 | 0.75U | 22.4 | 20 | **112** | | 20.8 | 20 | **104** | | 30 | **7.35** | |
| Chloromethane | 50-139 | 1 | 0.75U | 21.2 | 20 | **104** | | 19.3 | 20 | **95** | | 30 | **8.96** | |
| cis-1,2-Dichloroethene | 78-123 | 1 | 0.75U | 23.7 | 20 | **118** | | 22.4 | 20 | **112** | | 30 | **5.63** | |
| cis-1,3-Dichloropropene | 75-124 | 1 | 0.75U | 20.3 | 20 | **102** | | 19.0 | 20 | **95** | | 30 | **6.92** | |
| Dibromomethane | 79-123 | 1 | 0.75U | 22.9 | 20 | **114** | | 22.1 | 20 | **110** | | 30 | **3.68** | |
| Dichlorodifluoromethane | 32-152 | 1 | 0.75U | 22.4 | 20 | **112** | | 19.5 | 20 | **97** | | 30 | **13.7** | |
| Ethylbenzene | 79-121 | 1 | 0.75U | 23.6 | 20 | **118** | | 21.2 | 20 | **106** | | 30 | **11.1** | |
| Hexachlorobutadiene | 66-134 | 1 | 3.8U | 23.0 | 20 | **115** | | 20.4 | 20 | **102** | | 30 | **12** | |
| Isopropylbenzene | 72-131 | 1 | 0.75U | 25.1 | 20 | **125** | | 21.9 | 20 | **110** | | 30 | **13.4** | |
| Methylene Chloride | 74-124 | 1 | 0.75U | 23.1 | 20 | **116** | | 22.0 | 20 | **110** | | 30 | **5.1** | |
| mp-Xylene | 80-121 | 1 | 1.5U | 47.5 | 40 | **119** | | 43.4 | 40 | **109** | | 30 | **8.91** | |
| Naphthalene | 61-128 | 1 | 0.75U | 20.9 | 20 | **104** | | 19.1 | 20 | **95** | | 30 | **9.09** | |
| n-Butylbenzene | 75-128 | 1 | 0.75U | 23.3 | 20 | **116** | | 20.7 | 20 | **104** | | 30 | **11.7** | |
| n-Propylbenzene | 76-126 | 1 | 0.75U | 22.9 | 20 | **115** | | 20.0 | 20 | **100** | | 30 | **13.9** | |
| o-Chlorotoluene | 79-122 | 1 | 0.75U | 23.8 | 20 | **119** | | 20.9 | 20 | **105** | | 30 | **12.7** | |
| o-Xylene | 78-122 | 1 | 0.75U | 23.7 | 20 | **119** | | 21.5 | 20 | **108** | | 30 | **9.63** | |
| p-Chlorotoluene | 78-122 | 1 | 0.75U | 23.1 | 20 | **116** | | 20.5 | 20 | **103** | | 30 | **11.9** | |
| p-Isopropyltoluene | 77-127 | 1 | 0.75U | 23.7 | 20 | **119** | | 20.9 | 20 | **105** | | 30 | **12.5** | |
| sec-Butylbenzene | 77-126 | 1 | 0.75U | 24.1 | 20 | **121** | | 21.2 | 20 | **106** | | 30 | **13** | |
| Styrene | 78-123 | 1 | 0.75U | 21.8 | 20 | **109** | | 19.2 | 20 | **96** | | 30 | **12.5** | |
| tert-Butylbenzene | 78-124 | 1 | 0.75U | 24.1 | 20 | **121** | | 20.8 | 20 | **104** | | 30 | **14.7** | |
| Tetrachloroethene | 74-129 | 1 | 0.75U | 21.6 | 20 | **108** | | 19.9 | 20 | **99** | | 30 | **8.06** | |
| Toluene | 80-121 | 1 | 0.75U | 23.0 | 20 | **115** | | 20.7 | 20 | **104** | | 30 | **10.5** | |
| trans-1,2-Dichloroethene | 75-124 | 1 | 0.75U | 23.7 | 20 | **118** | | 21.5 | 20 | **108** | | 30 | **9.58** | |
| trans-1,3-Dichloropropene | 73-127 | 1 | 0.75U | 21.2 | 20 | **106** | | 19.7 | 20 | **98** | | 30 | **7.23** | |
| Trichloroethene | 79-123 | 1 | 0.54J | 23.2 | 20 | **113** | | 21.2 | 20 | **103** | | 30 | **8.94** | |
| Trichlorofluoromethane | 65-141 | 1 | 0.75U | 22.5 | 20 | **113** | | 20.3 | 20 | **102** | | 30 | **10.3** | |
| Vinyl Chloride | 58-137 | 1 | 0.75U | 22.6 | 20 | **113** | | 20.1 | 20 | **101** | | 30 | **11.7** | |

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Form 3B

# Laboratory Control Sample Recovery

## Volatiles by EPA 8260D

Workorder

**3366027**

Client

ALS Houston

Project

AHH131|HS24061196

07/09/2024

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# Form 3B - Laboratory Control Sample Recovery

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

SAMPLENUM LCS-3845269

## Volatiles by EPA 8260D

| 23240627 | | | 3845269 | | |
|---|---|---|---|---|---|
| **Spike Matrix** WQ | **Result Units** ug/L | | **Run Date** 06/27/24<br>**Run Time** 09:34 | | |
| Analyte | %Recovery Limits | Spike Added | LCS Result | %R | Q |
| 1,1,1,2-Tetrachloroethane | 78-124 | 20 | 23.3 | **116** | |
| 1,1,1-Trichloroethane | 74-131 | 20 | 21.8 | **109** | |
| 1,1,2,2-Tetrachloroethane | 71-121 | 20 | 22.9 | **115** | |
| 1,1,2-Trichloroethane | 80-119 | 20 | 22.4 | **112** | |
| 1,1-Dichloroethane | 77-125 | 20 | 19.9 | **100** | |
| 1,1-Dichloroethene | 71-131 | 20 | 21.2 | **106** | |
| 1,1-Dichloropropene | 79-125 | 20 | 21.3 | **106** | |
| 1,2,3-Trichlorobenzene | 69-129 | 20 | 23.4 | **117** | |
| 1,2,3-Trichloropropane | 73-122 | 20 | 21.3 | **107** | |
| 1,2,4-Trichlorobenzene | 69-130 | 20 | 25.2 | **126** | |
| 1,2,4-Trimethylbenzene | 76-124 | 20 | 23.5 | **118** | |
| 1,2-Dibromo-3-chloropropane | 62-128 | 20 | 20.6 | **103** | |
| 1,2-Dibromoethane | 77-121 | 20 | 22 | **110** | |
| 1,2-Dichlorobenzene | 80-119 | 20 | 23.1 | **116** | |
| 1,2-Dichloroethane | 73-128 | 20 | 21 | **105** | |
| 1,2-Dichloropropane | 78-122 | 20 | 22.1 | **110** | |
| 1,3,5-Trimethylbenzene | 75-124 | 20 | 23.5 | **118** | |
| 1,3-Dichlorobenzene | 80-119 | 20 | 22.8 | **114** | |
| 1,3-Dichloropropane | 80-119 | 20 | 22.6 | **113** | |
| 1,4-Dichlorobenzene | 79-118 | 20 | 22.7 | **113** | |
| 2,2-Dichloropropane | 60-139 | 20 | 23.2 | **116** | |
| 2-Butanone | 56-143 | 100 | 110 | **110** | |
| 2-Hexanone | 57-139 | 100 | 102 | **102** | |
| 4-Methyl-2-Pentanone(MIBK) | 67-130 | 100 | 103 | **103** | |
| Acetone | 39-160 | 100 | 121 | **121** | |
| Benzene | 79-120 | 20 | 21.7 | **108** | |
| Bromobenzene | 80-120 | 20 | 22.2 | **111** | |
| Bromochloromethane | 78-123 | 20 | 22.7 | **114** | |
| Bromodichloromethane | 79-125 | 20 | 22.1 | **111** | |
| Bromoform | 66-130 | 20 | 19.9 | **100** | |
| Bromomethane | 53-141 | 20 | 19.8 | **99** | |
| Carbon Disulfide | 64-133 | 20 | 21.6 | **108** | |
| Carbon Tetrachloride | 72-136 | 20 | 19.1 | **95** | |
| Chlorobenzene | 82-118 | 20 | 23.1 | **115** | |
| Chlorodibromomethane | 74-126 | 20 | 20.3 | **101** | |

# Form 3B - Laboratory Control Sample Recovery

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

SAMPLENUM LCS-3845269

## Volatiles by EPA 8260D

| 23240627 | | | 3845269 | | |
|---|---|---|---|---|---|
| **Spike Matrix** WQ | **Result Units** ug/L | | **Run Date** 06/27/24<br>**Run Time** 09:34 | | |
| Analyte | %Recovery Limits | Spike Added | LCS Result | %R | Q |
| Chloroethane | 60-138 | 20 | 20.6 | **103** | |
| Chloroform | 79-124 | 20 | 21.1 | **106** | |
| Chloromethane | 50-139 | 20 | 19.1 | **96** | |
| cis-1,2-Dichloroethene | 78-123 | 20 | 22.2 | **111** | |
| cis-1,3-Dichloropropene | 75-124 | 20 | 20.5 | **103** | |
| Dibromomethane | 79-123 | 20 | 21.6 | **108** | |
| Dichlorodifluoromethane | 32-152 | 20 | 18.3 | **92** | |
| Ethylbenzene | 79-121 | 20 | 22.4 | **112** | |
| Hexachlorobutadiene | 66-134 | 20 | 24.2 | **121** | |
| Isopropylbenzene | 72-131 | 20 | 23.9 | **120** | |
| Methylene Chloride | 74-124 | 20 | 21.7 | **109** | |
| mp-Xylene | 80-121 | 40 | 46.3 | **116** | |
| Naphthalene | 61-128 | 20 | 21.6 | **108** | |
| n-Butylbenzene | 75-128 | 20 | 23.5 | **117** | |
| n-Propylbenzene | 76-126 | 20 | 22.6 | **113** | |
| o-Chlorotoluene | 79-122 | 20 | 23.1 | **116** | |
| o-Xylene | 78-122 | 20 | 23.4 | **117** | |
| p-Chlorotoluene | 78-122 | 20 | 23.1 | **116** | |
| p-Isopropyltoluene | 77-127 | 20 | 23.2 | **116** | |
| sec-Butylbenzene | 77-126 | 20 | 23.3 | **116** | |
| Styrene | 78-123 | 20 | 22.2 | **111** | |
| tert-Butylbenzene | 78-124 | 20 | 22.5 | **113** | |
| Tetrachloroethene | 74-129 | 20 | 21.5 | **107** | |
| Toluene | 80-121 | 20 | 22.2 | **111** | |
| trans-1,2-Dichloroethene | 75-124 | 20 | 21.7 | **109** | |
| trans-1,3-Dichloropropene | 73-127 | 20 | 21.2 | **106** | |
| Trichloroethene | 79-123 | 20 | 20.7 | **103** | |
| Trichlorofluoromethane | 65-141 | 20 | 18.9 | **94** | |
| Vinyl Chloride | 58-137 | 20 | 20.6 | **103** | |

# Form 3B - Laboratory Control Sample Recovery

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

SAMPLENUM LCS-3845609

## Volatiles by EPA 8260D

| 25240627A | | | 3845609 | | |
|---|---|---|---|---|---|
| **Spike Matrix** WQ | **Result Units** ug/L | | **Run Date** 06/27/24<br>**Run Time** 19:49 | | |
| Analyte | %Recovery Limits | Spike Added | LCS Result | %R | Q |
| 1,1,1,2-Tetrachloroethane | 78-124 | 20 | 19.2 | **96** | |
| 1,1,1-Trichloroethane | 74-131 | 20 | 20.2 | **101** | |
| 1,1,2,2-Tetrachloroethane | 71-121 | 20 | 22.5 | **113** | |
| 1,1,2-Trichloroethane | 80-119 | 20 | 21.2 | **106** | |
| 1,1-Dichloroethane | 77-125 | 20 | 19.7 | **99** | |
| 1,1-Dichloroethene | 71-131 | 20 | 19.4 | **97** | |
| 1,1-Dichloropropene | 79-125 | 20 | 19.1 | **96** | |
| 1,2,3-Trichlorobenzene | 69-129 | 20 | 19.3 | **97** | |
| 1,2,3-Trichloropropane | 73-122 | 20 | 21.9 | **110** | |
| 1,2,4-Trichlorobenzene | 69-130 | 20 | 23.8 | **119** | |
| 1,2,4-Trimethylbenzene | 76-124 | 20 | 20 | **100** | |
| 1,2-Dibromo-3-chloropropane | 62-128 | 20 | 18.9 | **95** | |
| 1,2-Dibromoethane | 77-121 | 20 | 19.1 | **96** | |
| 1,2-Dichlorobenzene | 80-119 | 20 | 22 | **110** | |
| 1,2-Dichloroethane | 73-128 | 20 | 20 | **100** | |
| 1,2-Dichloropropane | 78-122 | 20 | 20.2 | **101** | |
| 1,3,5-Trimethylbenzene | 75-124 | 20 | 21.2 | **106** | |
| 1,3-Dichlorobenzene | 80-119 | 20 | 21.6 | **108** | |
| 1,3-Dichloropropane | 80-119 | 20 | 21.5 | **108** | |
| 1,4-Dichlorobenzene | 79-118 | 20 | 21.5 | **107** | |
| 2,2-Dichloropropane | 60-139 | 20 | 21 | **105** | |
| 2-Butanone | 56-143 | 100 | 105 | **105** | |
| 2-Hexanone | 57-139 | 100 | 103 | **103** | |
| 4-Methyl-2-Pentanone(MIBK) | 67-130 | 100 | 102 | **102** | |
| Acetone | 39-160 | 100 | 112 | **112** | |
| Benzene | 79-120 | 20 | 19.2 | **96** | |
| Bromobenzene | 80-120 | 20 | 21.6 | **108** | |
| Bromochloromethane | 78-123 | 20 | 21.1 | **105** | |
| Bromodichloromethane | 79-125 | 20 | 18.9 | **94** | |
| Bromoform | 66-130 | 20 | 17.9 | **90** | |
| Bromomethane | 53-141 | 20 | 16.2 | **81** | |
| Carbon Disulfide | 64-133 | 20 | 19 | **95** | |
| Carbon Tetrachloride | 72-136 | 20 | 17.4 | **87** | |
| Chlorobenzene | 82-118 | 20 | 20.4 | **102** | |
| Chlorodibromomethane | 74-126 | 20 | 18.5 | **93** | |

# Form 3B - Laboratory Control Sample Recovery

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

SAMPLENUM LCS-3845609

## Volatiles by EPA 8260D

| 25240627A | | | 3845609 | | |
|---|---|---|---|---|---|
| **Spike Matrix** WQ | **Result Units** ug/L | | **Run Date** 06/27/24<br>**Run Time** 19:49 | | |
| Analyte | %Recovery Limits | Spike Added | LCS Result | %R | Q |
| Chloroethane | 60-138 | 20 | 18 | **90** | |
| Chloroform | 79-124 | 20 | 20.1 | **101** | |
| Chloromethane | 50-139 | 20 | 17.3 | **86** | |
| cis-1,2-Dichloroethene | 78-123 | 20 | 20.4 | **102** | |
| cis-1,3-Dichloropropene | 75-124 | 20 | 18.8 | **94** | |
| Dibromomethane | 79-123 | 20 | 20.6 | **103** | |
| Dichlorodifluoromethane | 32-152 | 20 | 16.2 | **81** | |
| Ethylbenzene | 79-121 | 20 | 19.2 | **96** | |
| Hexachlorobutadiene | 66-134 | 20 | 20.2 | **101** | |
| Isopropylbenzene | 72-131 | 20 | 22.4 | **112** | |
| Methylene Chloride | 74-124 | 20 | 19.8 | **99** | |
| mp-Xylene | 80-121 | 40 | 37.6 | **94** | |
| Naphthalene | 61-128 | 20 | 20 | **100** | |
| n-Butylbenzene | 75-128 | 20 | 21.1 | **105** | |
| n-Propylbenzene | 76-126 | 20 | 21.2 | **106** | |
| o-Chlorotoluene | 79-122 | 20 | 21.7 | **109** | |
| o-Xylene | 78-122 | 20 | 19.1 | **96** | |
| p-Chlorotoluene | 78-122 | 20 | 22.1 | **110** | |
| p-Isopropyltoluene | 77-127 | 20 | 21.5 | **107** | |
| sec-Butylbenzene | 77-126 | 20 | 21.9 | **109** | |
| Styrene | 78-123 | 20 | 19.9 | **99** | |
| tert-Butylbenzene | 78-124 | 20 | 21.7 | **109** | |
| Tetrachloroethene | 74-129 | 20 | 19.6 | **98** | |
| Toluene | 80-121 | 20 | 19.2 | **96** | |
| trans-1,2-Dichloroethene | 75-124 | 20 | 20 | **100** | |
| trans-1,3-Dichloropropene | 73-127 | 20 | 19.4 | **97** | |
| Trichloroethene | 79-123 | 20 | 19.1 | **95** | |
| Trichlorofluoromethane | 65-141 | 20 | 17 | **85** | |
| Vinyl Chloride | 58-137 | 20 | 16.7 | **84** | |

# Form 3B - Laboratory Control Sample Recovery

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

SAMPLENUM LCS-3845976

## Volatiles by EPA 8260D

| 25240628 | | | 3845976 | | |
|---|---|---|---|---|---|
| **Spike Matrix** WQ | **Result Units** ug/L | | **Run Date** 06/28/24<br>**Run Time** 10:23 | | |
| Analyte | %Recovery Limits | Spike Added | LCS Result | %R | Q |
| 1,1,1,2-Tetrachloroethane | 78-124 | 20 | 19.1 | **96** | |
| 1,1,1-Trichloroethane | 74-131 | 20 | 21.5 | **108** | |
| 1,1,2,2-Tetrachloroethane | 71-121 | 20 | 21.6 | **108** | |
| 1,1,2-Trichloroethane | 80-119 | 20 | 20.7 | **104** | |
| 1,1-Dichloroethane | 77-125 | 20 | 20.8 | **104** | |
| 1,1-Dichloroethene | 71-131 | 20 | 21.5 | **108** | |
| 1,1-Dichloropropene | 79-125 | 20 | 20.6 | **103** | |
| 1,2,3-Trichlorobenzene | 69-129 | 20 | 19.5 | **97** | |
| 1,2,3-Trichloropropane | 73-122 | 20 | 21.2 | **106** | |
| 1,2,4-Trichlorobenzene | 69-130 | 20 | 24.1 | **121** | |
| 1,2,4-Trimethylbenzene | 76-124 | 20 | 20.1 | **101** | |
| 1,2-Dibromo-3-chloropropane | 62-128 | 20 | 18.9 | **95** | |
| 1,2-Dibromoethane | 77-121 | 20 | 19 | **95** | |
| 1,2-Dichlorobenzene | 80-119 | 20 | 21.9 | **110** | |
| 1,2-Dichloroethane | 73-128 | 20 | 19.7 | **99** | |
| 1,2-Dichloropropane | 78-122 | 20 | 20.8 | **104** | |
| 1,3,5-Trimethylbenzene | 75-124 | 20 | 21.2 | **106** | |
| 1,3-Dichlorobenzene | 80-119 | 20 | 22.1 | **110** | |
| 1,3-Dichloropropane | 80-119 | 20 | 21.6 | **108** | |
| 1,4-Dichlorobenzene | 79-118 | 20 | 21.8 | **109** | |
| 2,2-Dichloropropane | 60-139 | 20 | 21.3 | **107** | |
| 2-Butanone | 56-143 | 100 | 104 | **104** | |
| 2-Hexanone | 57-139 | 100 | 103 | **103** | |
| 4-Methyl-2-Pentanone(MIBK) | 67-130 | 100 | 104 | **104** | |
| Acetone | 39-160 | 100 | 108 | **108** | |
| Benzene | 79-120 | 20 | 19.9 | **99** | |
| Bromobenzene | 80-120 | 20 | 20.1 | **100** | |
| Bromochloromethane | 78-123 | 20 | 21.2 | **106** | |
| Bromodichloromethane | 79-125 | 20 | 18.8 | **94** | |
| Bromoform | 66-130 | 20 | 18.1 | **90** | |
| Bromomethane | 53-141 | 20 | 20 | **100** | |
| Carbon Disulfide | 64-133 | 20 | 21.1 | **106** | |
| Carbon Tetrachloride | 72-136 | 20 | 17.4 | **87** | |
| Chlorobenzene | 82-118 | 20 | 20.6 | **103** | |
| Chlorodibromomethane | 74-126 | 20 | 18.1 | **90** | |

# Form 3B - Laboratory Control Sample Recovery

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

SAMPLENUM LCS-3845976

## Volatiles by EPA 8260D

| 25240628 | | | 3845976 | | |
|---|---|---|---|---|---|
| **Spike Matrix** WQ | **Result Units** ug/L | | **Run Date** 06/28/24<br>**Run Time** 10:23 | | |
| Analyte | %Recovery Limits | Spike Added | LCS Result | %R | Q |
| Chloroethane | 60-138 | 20 | 20.3 | **102** | |
| Chloroform | 79-124 | 20 | 20.8 | **104** | |
| Chloromethane | 50-139 | 20 | 20.1 | **100** | |
| cis-1,2-Dichloroethene | 78-123 | 20 | 21.1 | **106** | |
| cis-1,3-Dichloropropene | 75-124 | 20 | 18.9 | **94** | |
| Dibromomethane | 79-123 | 20 | 20.2 | **101** | |
| Dichlorodifluoromethane | 32-152 | 20 | 20.1 | **101** | |
| Ethylbenzene | 79-121 | 20 | 19.1 | **96** | |
| Hexachlorobutadiene | 66-134 | 20 | 22.7 | **113** | |
| Isopropylbenzene | 72-131 | 20 | 24.2 | **121** | |
| Methylene Chloride | 74-124 | 20 | 21.4 | **107** | |
| mp-Xylene | 80-121 | 40 | 38.9 | **97** | |
| Naphthalene | 61-128 | 20 | 19.9 | **100** | |
| n-Butylbenzene | 75-128 | 20 | 21.3 | **107** | |
| n-Propylbenzene | 76-126 | 20 | 21.1 | **106** | |
| o-Chlorotoluene | 79-122 | 20 | 21.4 | **107** | |
| o-Xylene | 78-122 | 20 | 19.3 | **96** | |
| p-Chlorotoluene | 78-122 | 20 | 22.4 | **112** | |
| p-Isopropyltoluene | 77-127 | 20 | 21.8 | **109** | |
| sec-Butylbenzene | 77-126 | 20 | 22.9 | **115** | |
| Styrene | 78-123 | 20 | 21.2 | **106** | |
| tert-Butylbenzene | 78-124 | 20 | 22.5 | **113** | |
| Tetrachloroethene | 74-129 | 20 | 20.2 | **101** | |
| Toluene | 80-121 | 20 | 19.6 | **98** | |
| trans-1,2-Dichloroethene | 75-124 | 20 | 21.5 | **108** | |
| trans-1,3-Dichloropropene | 73-127 | 20 | 19.6 | **98** | |
| Trichloroethene | 79-123 | 20 | 20.2 | **101** | |
| Trichlorofluoromethane | 65-141 | 20 | 19.3 | **97** | |
| Vinyl Chloride | 58-137 | 20 | 19.7 | **99** | |

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Form 4

# Method Blank Summary

## Volatiles by EPA 8260D

Workorder

**3366027**

Client

ALS Houston

Project

AHH131|HS24061196

07/09/2024

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# Form 4 - Method Blank Summary

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

| METHOD BLANK | PrepDate / PrepBacth | Matrix | Analysis Date | Analysis Batch | Inst ID | Column |
|---|---|---|---|---|---|---|
| 3845268 | | WQ | 06/27/24 10:53 | 1235282 | MS23 | |

| Client Sample ID | Type | Lab Sample ID | 2324062705.D | Analysis Date | Analysis Batch | Inst ID | Column |
|---|---|---|---|---|---|---|---|
| LCS for HBN 1235282 [VOMS/7362 | LCS | 3845269 | 2324062702.D | 06/27/24 09:34 | 1235282 | MS23 | |
| HS24061196-10 | SAMPLE | 3366027010 | 2324062720.D | 06/27/24 17:29 | 1235282 | MS23 | |
| HS24061196-10MS | MS | 3845270 | 2324062725.D | 06/27/24 19:08 | 1235282 | MS23 | |
| HS24061196-10MSD | MSD | 3845271 | 2324062726.D | 06/27/24 19:28 | 1235282 | MS23 | |

# Form 4 - Method Blank Summary

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

| METHOD BLANK | PrepDate / PrepBacth | Matrix | Analysis Date | Analysis Batch | Inst ID | Column |
|---|---|---|---|---|---|---|
| 3845608 | | WQ | 06/27/24 21:10 | 1235666 | MS25 | |

| Client Sample ID | Type | Lab Sample ID | 2524062755.D | Analysis Date | Analysis Batch | Inst ID | Column |
|---|---|---|---|---|---|---|---|
| LCS for HBN 1235666 [VOMS/7364 | LCS | 3845609 | 2524062752.D | 06/27/24 19:49 | 1235666 | MS25 | |
| HS24061196-11 | SAMPLE | 3366027011 | 2524062757.D | 06/27/24 21:53 | 1235666 | MS25 | |
| HS24061196-01 | SAMPLE | 3366027001 | 2524062766.D | 06/28/24 00:56 | 1235666 | MS25 | |
| HS24061196-03 | SAMPLE | 3366027003 | 2524062768.D | 06/28/24 01:37 | 1235666 | MS25 | |
| HS24061196-04 | SAMPLE | 3366027004 | 2524062769.D | 06/28/24 01:58 | 1235666 | MS25 | |
| HS24061196-05 | SAMPLE | 3366027005 | 2524062770.D | 06/28/24 02:18 | 1235666 | MS25 | |
| HS24061196-06 | SAMPLE | 3366027006 | 2524062771.D | 06/28/24 02:38 | 1235666 | MS25 | |
| HS24061196-07 | SAMPLE | 3366027007 | 2524062772.D | 06/28/24 02:59 | 1235666 | MS25 | |
| HS24061196-08 | SAMPLE | 3366027008 | 2524062773.D | 06/28/24 03:19 | 1235666 | MS25 | |
| HS24061196-09 | SAMPLE | 3366027009 | 2524062774.D | 06/28/24 03:40 | 1235666 | MS25 | |

# Form 4 - Method Blank Summary

| | | | |
|---|---|---|---|
| Client | ALS Houston | Workorder | |
| Project | HS24061196 - AHH131 | | 3366027 |

## Volatiles by EPA 8260D

| METHOD BLANK | PrepDate / PrepBacth | Matrix | Analysis Date | Analysis Batch | Inst ID | Column |
|---|---|---|---|---|---|---|
| 3845975 | | WQ | 06/28/24 11:24 | 1236144 | MS25 | |

| Client Sample ID | Type | Lab Sample ID | 2524062804.D | Analysis Date | Analysis Batch | Inst ID | Column |
|---|---|---|---|---|---|---|---|
| LCS for HBN 1236144 [VOMS/7365 | LCS | 3845976 | 2524062802.D | 06/28/24 10:23 | 1236144 | MS25 | |
| HS24061196-02 | SAMPLE | 3366027002 | 2524062809.D | 06/28/24 13:06 | 1236144 | MS25 | |
| HS24061196-01 | SAMPLE | 3366027001 | 2524062825.D | 06/28/24 18:12 | 1236144 | MS25 | |

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Form 5

# Instrument Performance Check

## Volatiles by EPA 8260D

Workorder

**3366027**

Client

ALS Houston

Project

AHH131|HS24061196

07/09/2024

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# Form 5 - Instrument Performance Check

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

RUNID 23240625

## 8260D

Tune File 2324062500.D 06/25/24 10:30

| m / e | Ion Abundance Criterion | %RA |
|---|---|---|
| 95 | Base Peak, 100% RA | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 18.71 |
| 75 | 30.00 - 60.00% of mass 95 | 51.13 |
| 96 | 5.00 - 9.00% of mass 95 | 6.49 |
| 173 | Less than 2.00% of mass 174 | 0.55 (0.55) |
| 174 | Greater than 50.00% of mass 95 | 99.24 |
| 175 | 5.00 - 9.00% of mass 174 | 7.49 (7.54) |
| 176 | 95.00 - 101.00% of mass 174 | 99.13 (99.89) |
| 177 | 5.00 - 9.00% of mass 176 | 6.15 (6.20) |

%RA - Percent Relative Abundance

This check applies to the following analyses

| | Lab Samp ID | Type | Date | Lab File ID | Sample ID |
|---|---|---|---|---|---|
| 1 | 1000 | TUNE | 06/25 10:30 | 2324062500 | BFB |
| 2 | VSTD00.5 | ICAL8 | 06/25 11:40 | 2324062503 | LEVEL8 |
| 3 | 1234 | ICAL1 | 06/25 12:00 | 2324062504 | LEVEL1 |
| 4 | 1235 | ICAL2 | 06/25 12:20 | 2324062505 | LEVEL2 |
| 5 | 1236 | ICAL3 | 06/25 12:40 | 2324062506 | LEVEL3 |
| 6 | 1237 | ICAL4 | 06/25 13:00 | 2324062507 | LEVEL4 |
| 7 | 1238 | ICAL5 | 06/25 13:20 | 2324062508 | LEVEL5 |
| 8 | 1239 | ICAL6 | 06/25 13:39 | 2324062509 | LEVEL6 |
| 9 | ICVQ | ICV | 06/25 15:39 | 2324062515IC | ICV |
| 10 | 1801 | CCV | 06/25 21:17 | 2324062532 | CCV |

# Form 5 - Instrument Performance Check

Client ALS Houston

Project HS24061196 - AHH131

Workorder 3366027

RUNID 23240627

## 8260D

Tune File 2324062700.D 06/27/24 08:15

| m / e | Ion Abundance Criterion | %RA |
|---|---|---|
| 95 | Base Peak, 100% RA | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 18.13 |
| 75 | 30.00 - 60.00% of mass 95 | 51.79 |
| 96 | 5.00 - 9.00% of mass 95 | 6.79 |
| 173 | Less than 2.00% of mass 174 | 0.00 (0.00) |
| 174 | Greater than 50.00% of mass 95 | 95.99 |
| 175 | 5.00 - 9.00% of mass 174 | 7.22 (7.52) |
| 176 | 95.00 - 101.00% of mass 174 | 94.94 (98.91) |
| 177 | 5.00 - 9.00% of mass 176 | 6.39 (6.73) |

%RA - Percent Relative Abundance

This check applies to the following analyses

| | Lab Samp ID | Type | Date | Lab File ID | Sample ID |
|---|---|---|---|---|---|
| 1 | 1000 | TUNE | 06/27 08:15 | 2324062700 | BFB |
| 2 | 1800 | CCV | 06/27 08:44 | 2324062701 | CCV |
| 3 | 3845269 | LCS | 06/27 09:34 | 2324062702 | LCS for HBN 1235282 |
| 4 | 3845268 | MB | 06/27 10:53 | 2324062705 | MB for HBN 1235282 |
| 5 | 3366027010 | SAMP | 06/27 17:29 | 2324062720 | HS24061196-10 |
| 6 | 3845270 | MS | 06/27 19:08 | 2324062725 | HS24061196-10MS |
| 7 | 3845271 | MSD | 06/27 19:28 | 2324062726 | HS24061196-10MSD |
| 8 | 1801 | CCV | 06/27 19:48 | 2324062727 | CCV |

# Form 5 - Instrument Performance Check

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

RUNID 25240625

## 8260D

Tune File 2524062500.D 06/25/24 09:52

| m / e | Ion Abundance Criterion | %RA |
|---|---|---|
| 95 | Base Peak, 100% RA | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 16.72 |
| 75 | 30.00 - 60.00% of mass 95 | 46.71 |
| 96 | 5.00 - 9.00% of mass 95 | 7.11 |
| 173 | Less than 2.00% of mass 174 | 0.00 (0.00) |
| 174 | Greater than 50.00% of mass 95 | 93.49 |
| 175 | 5.00 - 9.00% of mass 174 | 7.88 (8.42) |
| 176 | 95.00 - 101.00% of mass 174 | 92.80 (99.27) |
| 177 | 5.00 - 9.00% of mass 176 | 5.61 (6.04) |

%RA - Percent Relative Abundance

This check applies to the following analyses

| | Lab Samp ID | Type | Date | Lab File ID | Sample ID |
|---|---|---|---|---|---|
| 1 | 1000 | TUNE | 06/25 09:52 | 2524062500 | BFB |
| 2 | VSTD00.5 | ICAL8 | 06/25 11:03 | 2524062503 | LEVEL8 |
| 3 | 1234 | ICAL1 | 06/25 11:23 | 2524062504 | LEVEL1 |
| 4 | 1235 | ICAL2 | 06/25 11:44 | 2524062505 | LEVEL2 |
| 5 | 1236 | ICAL3 | 06/25 12:04 | 2524062506 | LEVEL3 |
| 6 | 1237 | ICAL4 | 06/25 12:24 | 2524062507 | LEVEL4 |
| 7 | 1238 | ICAL5 | 06/25 12:45 | 2524062508 | LEVEL5 |
| 8 | 1239 | ICAL6 | 06/25 13:05 | 2524062509 | LEVEL6 |
| 9 | ICVQ | ICV | 06/25 15:08 | 2524062515IC | ICV |
| 10 | 1801 | CCV | 06/25 20:54 | 2524062532 | CCV |

# Form 5 - Instrument Performance Check

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

RUNID 25240627A

## 8260D

Tune File 2524062750.D 06/27/24 18:40

| m / e | Ion Abundance Criterion | %RA |
|---|---|---|
| 95 | Base Peak, 100% RA | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 17.59 |
| 75 | 30.00 - 60.00% of mass 95 | 47.08 |
| 96 | 5.00 - 9.00% of mass 95 | 6.54 |
| 173 | Less than 2.00% of mass 174 | 0.42 (0.48) |
| 174 | Greater than 50.00% of mass 95 | 87.21 |
| 175 | 5.00 - 9.00% of mass 174 | 7.11 (8.16) |
| 176 | 95.00 - 101.00% of mass 174 | 84.41 (96.78) |
| 177 | 5.00 - 9.00% of mass 176 | 5.22 (6.18) |

%RA - Percent Relative Abundance

This check applies to the following analyses

| | Lab Samp ID | Type | Date | Lab File ID | Sample ID |
|---|---|---|---|---|---|
| 1 | 1000 | TUNE | 06/27 18:40 | 2524062750 | BFB |
| 2 | 1800 | CCV | 06/27 19:08 | 2524062751 | CCV |
| 3 | 3845609 | LCS | 06/27 19:49 | 2524062752 | LCS for HBN 1235666 |
| 4 | 3845608 | MB | 06/27 21:10 | 2524062755 | MB for HBN 1235666 |
| 5 | 3366027011 | SAMP | 06/27 21:53 | 2524062757 | HS24061196-11 |
| 6 | 3366027001 | SAMP | 06/28 00:56 | 2524062766 | HS24061196-01 |
| 7 | 3366027003 | SAMP | 06/28 01:37 | 2524062768 | HS24061196-03 |
| 8 | 3366027004 | SAMP | 06/28 01:58 | 2524062769 | HS24061196-04 |
| 9 | 3366027005 | SAMP | 06/28 02:18 | 2524062770 | HS24061196-05 |
| 10 | 3366027006 | SAMP | 06/28 02:38 | 2524062771 | HS24061196-06 |
| 11 | 3366027007 | SAMP | 06/28 02:59 | 2524062772 | HS24061196-07 |
| 12 | 3366027008 | SAMP | 06/28 03:19 | 2524062773 | HS24061196-08 |
| 13 | 3366027009 | SAMP | 06/28 03:40 | 2524062774 | HS24061196-09 |
| 14 | 1801 | CCV | 06/28 05:22 | 2524062779 | CCV |

# Form 5 - Instrument Performance Check

Client ALS Houston

Project HS24061196 - AHH131

Workorder 3366027

RUNID 25240628

## 8260D

Tune File 2524062800.D 06/28/24 09:00

| m / e | Ion Abundance Criterion | %RA |
|---|---|---|
| 95 | Base Peak, 100% RA | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 18.49 |
| 75 | 30.00 - 60.00% of mass 95 | 47.66 |
| 96 | 5.00 - 9.00% of mass 95 | 7.11 |
| 173 | Less than 2.00% of mass 174 | 0.39 (0.45) |
| 174 | Greater than 50.00% of mass 95 | 86.25 |
| 175 | 5.00 - 9.00% of mass 174 | 6.82 (7.91) |
| 176 | 95.00 - 101.00% of mass 174 | 84.39 (97.84) |
| 177 | 5.00 - 9.00% of mass 176 | 5.64 (6.69) |

%RA - Percent Relative Abundance

This check applies to the following analyses

| | Lab Samp ID | Type | Date | Lab File ID | Sample ID |
|---|---|---|---|---|---|
| 1 | 1000 | TUNE | 06/28 09:00 | 2524062800 | BFB |
| 2 | 1800 | CCV | 06/28 09:53 | 2524062801 | CCV |
| 3 | 3845976 | LCS | 06/28 10:23 | 2524062802 | LCS for HBN 1236144 |
| 4 | 3845975 | MB | 06/28 11:24 | 2524062804 | MB for HBN 1236144 |
| 5 | 3366027002 | SAMP | 06/28 13:06 | 2524062809 | HS24061196-02 |
| 6 | 3366027001 | SAMP | 06/28 18:12 | 2524062825 | HS24061196-01 |
| 7 | 1801 | CCV | 06/28 19:34 | 2524062829 | CCV |

right solutions.
right partner.

Form 6

# Initial Calibration Data

## Volatiles by EPA 8260D

Workorder

**3366027**

Client

ALS Houston

Project

AHH131|HS24061196

07/09/2024

www.alsglobal.com

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 23240625 23-8260b09D

## Volatiles by EPA 8260D

**Instrument ID** MS23
**ICAL Start Date** 25-JUN-2024 1140
**ICAL End Date** 25-JUN-2024 1339

**Calibration Files**

**Level1** - 23240625.b\2324062504.D
**Level2** - 23240625.b\2324062505.D
**Level3** - 23240625.b\2324062506.D
**Level4** - 23240625.b\2324062507.D
**Level5** - 23240625.b\2324062508.D
**Level6** - 23240625.b\2324062509.D
**Level8** - 23240625.b\2324062503.D

| Compound | 0.500 Level 8 / 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.499<br>0.361 | 0.431 | 0.403 | 0.471 | 0.465 | 0.451 | AVRG | | 0.440 | | 10.6 | |
| Chloromethane | 0.357<br>0.259 | 0.252 | 0.232 | 0.266 | 0.253 | 0.263 | AVRG | | 0.269 | | 15.0 | |
| Vinyl Chloride | 0.303<br>0.215 | 0.251 | 0.236 | 0.279 | 0.287 | 0.283 | AVRG | | 0.265 | | 11.9 | |
| Bromomethane | 4253<br>6090 | 26020 | 100967 | 306932 | 622263 | 1219692 | WLINR | 0.000 | 4.99 | | 0.997 | |
| Chloroethane | 0.172<br>0.121 | 0.133 | 0.142 | 0.148 | 0.150 | 0.155 | AVRG | | 0.146 | | 11.2 | |
| Pentane | 0.205<br>0.191 | 0.166 | 0.150 | 0.183 | 0.177 | 0.174 | AVRG | | 0.178 | | 9.91 | |
| Trichlorofluoromethane | 0.643<br>0.468 | 0.542 | 0.523 | 0.598 | 0.599 | 0.575 | AVRG | | 0.564 | | 10.3 | |
| Dichlorofluoromethane | 0.386<br>0.399 | 0.477 | 0.463 | 0.558 | 0.528 | 0.521 | AVRG | | 0.476 | | 13.8 | |
| Ethyl Ether | 0.119<br>0.135 | 0.150 | 0.144 | 0.172 | 0.158 | 0.162 | AVRG | | 0.149 | | 12.0 | |
| 1,1-Dichloroethene | 0.301<br>0.305 | 0.330 | 0.312 | 0.378 | 0.365 | 0.362 | AVRG | | 0.336 | | 9.39 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 23240625 23-8260b09D

## Volatiles by EPA 8260D

**ICAL Start Date** 25-JUN-2024 11:40 **ICAL End Date** 25-JUN-2024 13:39 ICAL Summary Page 2 / 10

| Compound | 0.500 Level 8 / 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Freon 113 | 0.202<br>0.202 | 0.226 | 0.217 | 0.256 | 0.251 | 0.246 | AVRG | | 0.229 | | 10.0 | |
| Carbon Disulfide | 0.597<br>0.534 | 0.652 | 0.609 | 0.737 | 0.718 | 0.717 | AVRG | | 0.652 | | 11.7 | |
| Iodomethane | 1590<br>2825 | 13893 | 60406 | 219972 | 460467 | NE | QUAD | 0.000e+000 | 0.121 | 0.009 | 0.997 | |
| Acrolein | 0.037<br>0.035 | 0.043 | 0.039 | 0.049 | 0.046 | 0.046 | AVRG | | 0.042 | | 12.7 | |
| Isopropyl Alcohol | 2589<br>4164 | 13708 | 48455 | 137431 | 258796 | 529233 | WLINR | -0.068 | 57.8 | | 0.999 | |
| 3-Chloro-1-propene | 2843<br>6383 | 35943 | 145446 | 432653 | 817321 | 1488539 | WLINR | 0.006 | 3.88 | | 0.997 | |
| Methylene Chloride | 0.207<br>0.222 | 0.246 | 0.230 | 0.277 | 0.261 | 0.262 | AVRG | | 0.244 | | 10.3 | |
| Acetone | 0.020<br>0.019 | 0.023 | 0.021 | 0.026 | 0.024 | 0.024 | AVRG | | 0.022 | | 10.6 | |
| Methyl acetate | 0.073<br>0.052 | 0.055 | 0.050 | 0.058 | 0.054 | 0.054 | AVRG | | 0.057 | | 13.4 | |
| trans-1,2-Dichloroethene | 0.249<br>0.275 | 0.313 | 0.298 | 0.353 | 0.336 | 0.334 | AVRG | | 0.308 | | 12.0 | |
| Hexane | 0.585<br>0.439 | 0.430 | 0.393 | 0.465 | 0.446 | 0.440 | AVRG | | 0.457 | | 13.3 | |
| Methyl t-Butyl Ether | 0.675<br>0.699 | 0.834 | 0.797 | 0.967 | 0.897 | 0.889 | AVRG | | 0.823 | | 13.0 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 23240625 23-8260b09D

## Volatiles by EPA 8260D

**ICAL Start Date** 25-JUN-2024 11:40 **ICAL End Date** 25-JUN-2024 13:39 ICAL Summary Page 3 / 10

| Compound | 0.500 Level 8 / 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| tert.- Butyl Alcohol | 0.031<br>0.028 | 0.031 | 0.033 | 0.040 | 0.038 | 0.038 | AVRG | | 0.034 | | 13.0 | |
| Acetonitrile | 0.023<br>0.022 | 0.025 | 0.024 | 0.030 | 0.028 | 0.028 | AVRG | | 0.026 | | 11.7 | |
| Diisopropyl ether | 0.464<br>0.483 | 0.596 | 0.539 | 0.660 | 0.619 | 0.622 | AVRG | | 0.569 | | 13.2 | |
| Chloroprene | 3948<br>11526 | 53093 | 183558 | 641269 | 1237055 | 2394765 | WLINR | 0.008 | 2.51 | | 0.996 | |
| 1,1-Dichloroethane | 4691<br>11278 | 62741 | 241048 | 720177 | 1340093 | 2614914 | WLINR | 0.007 | 2.28 | | 0.999 | |
| Acrylonitrile | 6986<br>12112 | 76325 | 314537 | 877946 | 1771801 | 3423071 | WLINR | 0.041 | 8.76 | | 0.999 | |
| Ethyl tert-butyl ether | 8862<br>20746 | 113573 | 449788 | 1342880 | 2505280 | 4924429 | WLINR | 0.007 | 1.21 | | 0.999 | |
| n-Propanol | 0.011<br>0.011 | 0.014 | 0.013 | 0.015 | 0.014 | 0.014 | AVRG | | 0.013 | | 12.7 | |
| Vinyl Acetate | 642<br>1806 | 8615 | 39752 | 117168 | 224756 | 440996 | WLINR | 0.010 | 13.6 | | 0.998 | |
| cis-1,2-Dichloroethene | 0.286<br>0.262 | 0.322 | 0.301 | 0.369 | 0.346 | 0.346 | AVRG | | 0.319 | | 11.8 | |
| 2,2-Dichloropropane | 0.344<br>0.357 | 0.433 | 0.410 | 0.480 | 0.465 | 0.457 | AVRG | | 0.421 | | 12.7 | |
| Bromochloromethane | 0.144<br>0.125 | 0.155 | 0.151 | 0.179 | 0.165 | 0.159 | AVRG | | 0.154 | | 10.9 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 23240625 23-8260b09D

## Volatiles by EPA 8260D

**ICAL Start Date** 25-JUN-2024 11:40 **ICAL End Date** 25-JUN-2024 13:39 ICAL Summary Page 4 / 10

| Compound | 0.500 Level 8 / 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 0.290<br>0.344 | 0.363 | 0.341 | 0.394 | 0.389 | 0.381 | AVRG | | 0.358 | | 10.2 | |
| Chloroform | 0.484<br>0.491 | 0.538 | 0.500 | 0.604 | 0.567 | 0.560 | AVRG | | 0.535 | | 8.43 | |
| Ethyl Acetate | 0.190<br>0.209 | 0.228 | 0.226 | 0.272 | 0.259 | 0.261 | AVRG | | 0.235 | | 12.8 | |
| Methyl acrylate | 2535<br>6069 | 32477 | 131330 | 407226 | 764157 | 1510437 | WLINR | 0.009 | 3.98 | | 0.998 | |
| Carbon Tetrachloride | 5500<br>11155 | 68615 | 262887 | 787031 | 1488538 | 2915544 | WLINR | 0.008 | 2.05 | | 0.999 | |
| Tetrahydrofuran | 0.050<br>0.054 | 0.063 | 0.059 | 0.073 | 0.068 | 0.068 | AVRG | | 0.062 | | 13.5 | |
| 1,1,1-Trichloroethane | 0.383<br>0.417 | 0.509 | 0.468 | 0.572 | 0.542 | 0.531 | AVRG | | 0.489 | | 14.2 | |
| 2-Butanone | 0.030<br>0.029 | 0.035 | 0.033 | 0.040 | 0.038 | 0.037 | AVRG | | 0.035 | | 12.0 | |
| 1,1-Dichloropropene | 0.272<br>0.310 | 0.354 | 0.333 | 0.399 | 0.386 | 0.382 | AVRG | | 0.348 | | 13.3 | |
| 1-Chlorobutane | 0.221<br>0.217 | 0.219 | 0.206 | 0.247 | 0.237 | 0.235 | AVRG | | 0.226 | | 6.33 | |
| Heptane | 0.163<br>0.135 | 0.168 | 0.146 | 0.176 | 0.170 | 0.167 | AVRG | | 0.161 | | 9.24 | |
| Benzene | 0.742<br>0.829 | 0.944 | 0.872 | 1.05 | 0.986 | 0.973 | AVRG | | 0.913 | | 11.5 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 23240625 23-8260b09D

## Volatiles by EPA 8260D

**ICAL Start Date** 25-JUN-2024 11:40 **ICAL End Date** 25-JUN-2024 13:39



| Compound | 0.500 Level 8 / 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Propionitrile | 2310<br>4493 | 26997 | 111637 | 318888 | 626298 | 1222273 | WLINR | 0.042 | 24.5 | | 0.999 | |
| Methacrylonitrile | 0.100<br>0.090 | 0.115 | 0.102 | 0.129 | 0.122 | 0.123 | AVRG | | 0.112 | | 13.0 | |
| tert-Amyl methyl ether | 9267<br>19739 | 117980 | 449709 | 1371197 | 2545425 | 4957541 | WLINR | 0.007 | 1.20 | | 0.998 | |
| Isobutyl alcohol | 787<br>1721 | 6416 | 29316 | 106903 | 223192 | 479826 | QUAD | 0.000e+000 | 0.006 | 0.000 | 0.999 | |
| 1,2-Dichloroethane | 0.387<br>0.381 | 0.432 | 0.408 | 0.493 | 0.459 | 0.455 | AVRG | | 0.431 | | 9.54 | |
| tert-Amyl Alcohol | 0.021<br>0.026 | 0.022 | 0.023 | 0.029 | 0.028 | 0.029 | AVRG | | 0.026 | | 13.2 | |
| Diisobutylene | 35179<br>41095 | 98758 | 285696 | 780195 | 1511490 | 2911332 | WLINR | -0.057 | 2.08 | | 0.999 | |
| Trichloroethene | 0.249<br>0.263 | 0.280 | 0.256 | 0.315 | 0.298 | 0.297 | AVRG | | 0.280 | | 8.84 | |
| Methyl cyclohexane | 0.773<br>0.758 | 0.887 | 0.789 | 0.954 | 0.924 | 0.905 | AVRG | | 0.856 | | 9.34 | |
| tert-Amyl Ethylether | 0.461<br>0.459 | 0.549 | 0.531 | 0.647 | 0.608 | 0.610 | AVRG | | 0.552 | | 13.4 | |
| Dibromomethane | 0.134<br>0.168 | 0.178 | 0.169 | 0.211 | 0.199 | 0.200 | AVRG | | 0.180 | | 14.5 | |
| 1,2-Dichloropropane | 0.154<br>0.182 | 0.195 | 0.191 | 0.231 | 0.220 | 0.222 | AVRG | | 0.199 | | 13.6 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 23240625 23-8260b09D

## Volatiles by EPA 8260D

**ICAL Start Date** 25-JUN-2024 11:40 **ICAL End Date** 25-JUN-2024 13:39 ICAL Summary Page 6 / 10

| Compound | 0.500 Level 8 / 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | 0.310<br>0.317 | 0.383 | 0.364 | 0.456 | 0.427 | 0.427 | AVRG | | 0.384 | | 14.7 | |
| Methyl methacrylate | 2755<br>5296 | 33049 | 126355 | 381330 | 727328 | 1438473 | WLINR | 0.008 | 4.18 | | 0.999 | |
| 1,4-Dioxane | 0.003<br>0.003 | 0.004 | 0.004 | 0.005 | 0.004 | 0.004 | AVRG | | 0.004 | | 14.1 | |
| 2-Chloroethylvinyl ether | 204<br>897 | 6260 | 33217 | 192392 | 417185 | NE | QUAD | -0.009 | 0.102 | 0.012 | 0.993 | |
| cis-1,3-Dichloropropene | 4347<br>10164 | 63118 | 248734 | 753775 | 1441791 | 2843164 | WLINR | 0.010 | 0.943 | | 0.998 | |
| Octane | 0.293<br>0.265 | 0.347 | 0.322 | 0.386 | 0.369 | 0.362 | AVRG | | 0.335 | | 13.0 | |
| Toluene | 1.36<br>1.34 | 1.48 | 1.33 | 1.66 | 1.55 | 1.55 | AVRG | | 1.47 | | 8.76 | |
| Chloroacetonitrile | 640<br>1948 | 12126 | 54037 | 163430 | 311694 | 627456 | WLINR | 0.069 | 21.6 | | 0.998 | |
| 2-Nitropropane | 5576<br>10921 | 69519 | 292246 | 908380 | 1715206 | 3365902 | WLINR | 0.053 | 3.97 | | 0.997 | |
| 1,1-Dichloro-2-Propanone | 0.020<br>0.018 | 0.020 | 0.018 | 0.023 | 0.022 | 0.022 | AVRG | | 0.021 | | 9.62 | |
| 4-Methyl-2-Pentanone(MIBK) | 12653<br>27457 | 166149 | 651962 | 1973695 | 3665300 | 7189338 | WLINR | 0.039 | 1.85 | | 0.998 | |
| trans-1,3-Dichloropropene | 5552<br>10951 | 66164 | 260792 | 787276 | 1490778 | 2913743 | WLINR | 0.008 | 0.916 | | 0.998 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 23240625 23-8260b09D

## Volatiles by EPA 8260D

**ICAL Start Date** 25-JUN-2024 11:40 **ICAL End Date** 25-JUN-2024 13:39 ICAL Summary Page 7 / 10

| Compound | 0.500 Level 8 / 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 0.589<br>0.595 | 0.654 | 0.574 | 0.718 | 0.673 | 0.664 | AVRG | | 0.638 | | 8.32 | |
| Ethyl Methacrylate | 3894<br>8230 | 51811 | 211466 | 643225 | 1218362 | 2405464 | WLINR | 0.010 | 1.11 | | 0.998 | |
| 1,1,2-Trichloroethane | 0.340<br>0.383 | 0.464 | 0.420 | 0.509 | 0.463 | 0.470 | AVRG | | 0.436 | | 13.4 | |
| Chlorodibromomethane | 3928<br>9304 | 52711 | 206382 | 635027 | 1204535 | 2395175 | WLINR | 0.009 | 1.12 | | 0.998 | |
| 1,3-Dichloropropane | 0.713<br>0.811 | 0.940 | 0.850 | 1.08 | 0.994 | 1.01 | AVRG | | 0.914 | | 14.1 | |
| 1,2-Dibromoethane | 0.555<br>0.535 | 0.635 | 0.594 | 0.749 | 0.691 | 0.705 | AVRG | | 0.638 | | 12.7 | |
| 2-Hexanone | 9467<br>18110 | 119861 | 465972 | 1440967 | 2702708 | 5340055 | WLINR | 0.045 | 2.51 | | 0.998 | |
| 1-Chlorohexane | 0.718<br>0.683 | 0.755 | 0.692 | 0.858 | 0.830 | 0.829 | AVRG | | 0.766 | | 9.44 | |
| Chlorobenzene | 1.38<br>1.48 | 1.75 | 1.58 | 1.97 | 1.82 | 1.82 | AVRG | | 1.69 | | 12.6 | |
| Ethylbenzene | 0.751<br>0.866 | 0.890 | 0.801 | 1.02 | 0.944 | 0.951 | AVRG | | 0.888 | | 10.3 | |
| 1,1,1,2-Tetrachloroethane | 0.546<br>0.597 | 0.693 | 0.653 | 0.824 | 0.762 | 0.767 | AVRG | | 0.692 | | 14.5 | |
| mp-Xylene | 0.923<br>0.912 | 1.10 | 1.00 | 1.25 | 1.17 | 1.16 | AVRG | | 1.07 | | 12.1 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 23240625 23-8260b09D

## Volatiles by EPA 8260D

**ICAL Start Date** 25-JUN-2024 11:40 **ICAL End Date** 25-JUN-2024 13:39 ICAL Summary Page 8 / 10

| Compound | 0.500 Level 8 / 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | 0.865<br>0.885 | 1.07 | 0.996 | 1.24 | 1.16 | 1.18 | AVRG | | 1.06 | | 13.8 | |
| Styrene | 8632<br>20380 | 119222 | 457158 | 1403296 | 2664565 | 5251559 | WLINR | 0.007 | 0.593 | | 0.997 | |
| Bromoform | 3134<br>6236 | 37264 | 156525 | 489935 | 943750 | 1872007 | WLINR | 0.010 | 1.68 | | 0.997 | |
| Isopropylbenzene | 15455<br>31713 | 175788 | 661590 | 1982640 | 3847733 | 7380210 | WLINR | 0.004 | 0.418 | | 0.997 | |
| 100 1,2-Dichloroethene, Total | 0.268<br>0.268 | 0.317 | 0.299 | 0.361 | 0.341 | 0.340 | AVRG | | 0.314 | | 11.7 | |
| Bromobenzene | 0.721<br>0.695 | 0.764 | 0.644 | 0.846 | 0.780 | 0.767 | AVRG | | 0.745 | | 8.76 | |
| n-Propylbenzene | 0.706<br>0.633 | 0.752 | 0.605 | 0.777 | 0.742 | 0.726 | AVRG | | 0.706 | | 9.03 | |
| 1,1,2,2-Tetrachloroethane | 0.525<br>0.517 | 0.646 | 0.564 | 0.728 | 0.669 | 0.666 | AVRG | | 0.616 | | 13.2 | |
| o-Chlorotoluene | 1.72<br>1.71 | 2.03 | 1.72 | 2.22 | 2.06 | 2.01 | AVRG | | 1.92 | | 10.6 | |
| 1,3,5-Trimethylbenzene | 1.71<br>1.88 | 2.26 | 1.87 | 2.42 | 2.27 | 2.16 | AVRG | | 2.08 | | 12.5 | |
| 1,2,3-Trichloropropane | 0.216<br>0.218 | 0.278 | 0.242 | 0.313 | 0.285 | 0.279 | AVRG | | 0.261 | | 14.0 | |
| trans-1,4-Dichloro-2-butene | 917<br>2713 | 15498 | 64425 | 203565 | 388645 | 770313 | WLINR | 0.011 | 4.06 | | 0.997 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 23240625 23-8260b09D

## Volatiles by EPA 8260D

**ICAL Start Date** 25-JUN-2024 11:40 **ICAL End Date** 25-JUN-2024 13:39 ICAL Summary Page 9 / 10

| Compound | 0.500 Level 8 | 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| p-Chlorotoluene | 1.58 | 1.59 | 1.89 | 1.57 | 2.04 | 1.91 | 1.86 | AVRG | | 1.78 | | 10.8 | |
| tert-Butylbenzene | 0.454 | 0.459 | 0.562 | 0.466 | 0.601 | 0.560 | 0.544 | AVRG | | 0.521 | | 11.5 | |
| Pentachloroethane | 2432 | 6044 | 35239 | 134662 | 412506 | 787242 | 1527981 | WLINR | 0.007 | 2.03 | | 0.997 | |
| 1,2,4-Trimethylbenzene | 1.82 | 1.80 | 2.29 | 1.92 | 2.49 | 2.29 | 2.18 | AVRG | | 2.11 | | 12.7 | |
| sec-Butylbenzene | 2.27 | 2.11 | 2.65 | 2.25 | 2.85 | 2.68 | 2.53 | AVRG | | 2.48 | | 11.0 | |
| p-Isopropyltoluene | 0.525 | 0.481 | 0.636 | 0.541 | 0.709 | 0.665 | 0.632 | AVRG | | 0.598 | | 13.9 | |
| 1,3-Dichlorobenzene | 1.10 | 1.26 | 1.40 | 1.17 | 1.50 | 1.41 | 1.37 | AVRG | | 1.31 | | 11.1 | |
| 1,4-Dichlorobenzene | 1.30 | 1.25 | 1.40 | 1.18 | 1.51 | 1.41 | 1.37 | AVRG | | 1.35 | | 8.22 | |
| Benzyl Chloride | 1342 | 3415 | 21121 | 82200 | 265568 | 518251 | 1036652 | WLINR | 0.011 | 3.05 | | 0.997 | |
| n-Butylbenzene | 0.521 | 0.467 | 0.601 | 0.485 | 0.638 | 0.598 | 0.567 | AVRG | | 0.554 | | 11.6 | |
| Hexachloroethane | 2789 | 5536 | 31171 | 122695 | 390419 | 757185 | 1477423 | WLINR | 0.007 | 2.11 | | 0.997 | |
| 1,2-Dichlorobenzene | 1.19 | 1.14 | 1.34 | 1.13 | 1.46 | 1.35 | 1.32 | AVRG | | 1.27 | | 9.77 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 23240625 23-8260b09D

## Volatiles by EPA 8260D

**ICAL Start Date** 25-JUN-2024 11:40 **ICAL End Date** 25-JUN-2024 13:39 ICAL Summary Page 10 / 10

| Compound | 0.500 Level 8 / 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | 0.164<br>0.135 | 0.163 | 0.146 | 0.202 | 0.189 | 0.192 | AVRG | | 0.170 | | 14.7 | |
| Nitrobenzene | 2594<br>5139 | 30738 | 159542 | 604810 | 1236974 | 2644208 | QUAD | -0.050 | 0.075 | 0.000 | 0.999 | |
| Hexachlorobutadiene | 0.442<br>0.428 | 0.479 | 0.384 | 0.488 | 0.444 | 0.404 | AVRG | | 0.438 | | 8.57 | |
| 120 1,3-Dichloropropene, Total | 9899<br>21115 | 129282 | 509526 | 1541051 | 2932569 | 5756907 | WLINR | 0.017 | 0.929 | | 0.998 | |
| 1,2,4-Trichlorobenzene | 0.837<br>0.727 | 0.934 | 0.778 | 1.03 | 0.958 | 0.907 | AVRG | | 0.882 | | 12.2 | |
| 121 Total Xylenes | 0.904<br>0.903 | 1.09 | 1.00 | 1.25 | 1.17 | 1.16 | AVRG | | 1.07 | | 12.7 | |
| Naphthalene | 14513<br>27574 | 166588 | 670976 | 2085245 | 3980034 | 7683598 | WLINR | 0.007 | 0.402 | | 0.997 | |
| 1,2,3-Trichlorobenzene | 0.826<br>0.718 | 0.858 | 0.775 | 1.04 | 0.967 | 0.929 | AVRG | | 0.873 | | 12.8 | |
| 41 Dibromofluoromethane | 0.285<br>0.297 | 0.294 | 0.303 | 0.296 | 0.292 | 0.297 | AVRG | | 0.295 | | 1.87 | |
| 51 1,2-Dichloroethane-d4 | 0.381<br>0.391 | 0.382 | 0.381 | 0.380 | 0.362 | 0.365 | AVRG | | 0.377 | | 2.72 | |
| 68 Toluene-d8 | 2.41<br>2.36 | 2.41 | 2.43 | 2.42 | 2.35 | 2.36 | AVRG | | 2.39 | | 1.39 | |
| 92 4-Bromofluorobenzene | 0.872<br>0.809 | 0.939 | 0.845 | 0.879 | 0.871 | 0.860 | AVRG | | 0.868 | | 4.53 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240625 25-8260b09D

## Volatiles by EPA 8260D

**Instrument ID** MS25
**ICAL Start Date** 25-JUN-2024 1103
**ICAL End Date** 25-JUN-2024 1305

**Calibration Files**

**Level1** - 25240625.b\2524062504.D
**Level2** - 25240625.b\2524062505.D
**Level3** - 25240625.b\2524062506.D
**Level4** - 25240625.b\2524062507.D
**Level5** - 25240625.b\2524062508.D
**Level6** - 25240625.b\2524062509.D
**Level8** - 25240625.b\2524062503.D

| Compound | 0.500 Level 8 / 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.405<br>0.265 | 0.329 | 0.304 | 0.329 | 0.359 | 0.333 | AVRG | | 0.332 | | 13.1 | |
| Chloromethane | 7701<br>10647 | 52986 | 186575 | 540092 | 1078871 | 2190978 | WLINR | -0.004 | 3.46 | | 0.999 | |
| Vinyl Chloride | 0.463<br>0.320 | 0.373 | 0.339 | 0.372 | 0.397 | 0.363 | AVRG | | 0.375 | | 12.3 | |
| Bromomethane | 6439<br>8135 | 37472 | 128221 | 348305 | 683038 | 1305713 | WLINR | -0.015 | 5.62 | | 0.998 | |
| Chloroethane | 7553<br>12457 | 49249 | 167849 | 473353 | 939865 | 1905246 | WLINR | -0.010 | 3.97 | | 0.999 | |
| Pentane | 13487<br>17356 | 50203 | 154298 | 429548 | 877950 | 1732989 | WLINR | -0.035 | 4.37 | | 0.998 | |
| Trichlorofluoromethane | 0.609<br>0.448 | 0.522 | 0.475 | 0.508 | 0.542 | 0.494 | AVRG | | 0.514 | | 10.1 | |
| Dichlorofluoromethane | 0.413<br>0.405 | 0.507 | 0.458 | 0.513 | 0.535 | 0.499 | AVRG | | 0.476 | | 10.8 | |
| Ethyl Ether | 0.128<br>0.122 | 0.144 | 0.145 | 0.157 | 0.162 | 0.155 | AVRG | | 0.145 | | 10.3 | |
| 1,1-Dichloroethene | 0.259<br>0.260 | 0.297 | 0.272 | 0.302 | 0.325 | 0.306 | AVRG | | 0.289 | | 8.83 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240625 25-8260b09D

## Volatiles by EPA 8260D

**ICAL Start Date** 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 2 / 10

| Compound | 0.500 Level 8 / 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Freon 113 | 0.174<br>0.182 | 0.216 | 0.188 | 0.213 | 0.232 | 0.216 | AVRG | | 0.203 | | 10.6 | |
| Carbon Disulfide | 0.587<br>0.536 | 0.603 | 0.575 | 0.670 | 0.715 | 0.672 | AVRG | | 0.623 | | 10.3 | |
| Iodomethane | 1008<br>2132 | 12856 | 55931 | 202377 | 423659 | 874390 | WLINR | 0.017 | 8.85 | | 0.993 | |
| Acrolein | 0.048<br>0.040 | 0.046 | 0.044 | 0.049 | 0.051 | 0.049 | AVRG | | 0.047 | | 8.35 | |
| Isopropyl Alcohol | 3328<br>4784 | 13242 | 48509 | 143259 | 289391 | 563852 | WLINR | -0.106 | 66.6 | | 0.997 | |
| 3-Chloro-1-propene | 3005<br>7346 | 45996 | 163615 | 502818 | 973704 | 1831594 | WLINR | 0.006 | 3.96 | | 0.996 | |
| Methylene Chloride | 0.204<br>0.223 | 0.246 | 0.226 | 0.251 | 0.257 | 0.243 | AVRG | | 0.236 | | 7.97 | |
| Acetone | 0.027<br>0.028 | 0.025 | 0.024 | 0.026 | 0.027 | 0.025 | AVRG | | 0.026 | | 5.46 | |
| Methyl acetate | 2035<br>2657 | 9079 | 35525 | 106383 | 195422 | 401646 | WLINR | -0.014 | 18.8 | | 0.999 | |
| trans-1,2-Dichloroethene | 0.243<br>0.256 | 0.288 | 0.267 | 0.307 | 0.320 | 0.297 | AVRG | | 0.283 | | 9.97 | |
| Hexane | 15367<br>20884 | 86426 | 304896 | 870351 | 1762469 | 3534639 | WLINR | -0.010 | 2.14 | | 0.998 | |
| Methyl t-Butyl Ether | 9076<br>19555 | 120315 | 466744 | 1393184 | 2707334 | 5465615 | WLINR | 0.008 | 1.37 | | 0.999 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240625 25-8260b09D

## Volatiles by EPA 8260D

**ICAL Start Date** 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 3 / 10

| Compound | 0.500 Level 8 / 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| tert.- Butyl Alcohol | 0.023<br>0.024 | 0.024 | 0.026 | 0.028 | 0.030 | 0.027 | AVRG | | 0.026 | | 9.72 | |
| Acetonitrile | 0.027<br>0.025 | 0.030 | 0.028 | 0.032 | 0.033 | 0.030 | AVRG | | 0.029 | | 9.61 | |
| Diisopropyl ether | 0.517<br>0.556 | 0.644 | 0.607 | 0.687 | 0.708 | 0.671 | AVRG | | 0.627 | | 11.2 | |
| Chloroprene | 0.270<br>0.264 | 0.311 | 0.307 | 0.352 | 0.368 | 0.354 | AVRG | | 0.318 | | 13.0 | |
| 1,1-Dichloroethane | 0.324<br>0.332 | 0.404 | 0.365 | 0.421 | 0.436 | 0.414 | AVRG | | 0.385 | | 11.7 | |
| Acrylonitrile | 0.080<br>0.083 | 0.103 | 0.099 | 0.112 | 0.117 | 0.109 | AVRG | | 0.100 | | 14.2 | |
| Ethyl tert-butyl ether | 0.536<br>0.551 | 0.665 | 0.658 | 0.739 | 0.774 | 0.740 | AVRG | | 0.666 | | 14.0 | |
| n-Propanol | 0.014<br>0.012 | 0.012 | 0.011 | 0.012 | 0.013 | 0.012 | AVRG | | 0.012 | | 8.23 | |
| Vinyl Acetate | 715<br>1240 | 9677 | 38506 | 126310 | 244750 | 502264 | WLINR | 0.013 | 15.1 | | 0.998 | |
| cis-1,2-Dichloroethene | 0.243<br>0.251 | 0.294 | 0.281 | 0.310 | 0.322 | 0.305 | AVRG | | 0.287 | | 10.5 | |
| 2,2-Dichloropropane | 0.278<br>0.270 | 0.309 | 0.290 | 0.326 | 0.348 | 0.326 | AVRG | | 0.307 | | 9.34 | |
| Bromochloromethane | 0.100<br>0.098 | 0.128 | 0.124 | 0.141 | 0.142 | 0.132 | AVRG | | 0.124 | | 14.4 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240625 25-8260b09D

## Volatiles by EPA 8260D

**ICAL Start Date** 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 4 / 10

| Compound | 0.500 Level 8 / 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 0.329<br>0.306 | 0.344 | 0.316 | 0.354 | 0.389 | 0.369 | AVRG | | 0.344 | | 8.51 | |
| Chloroform | 0.360<br>0.344 | 0.430 | 0.401 | 0.451 | 0.476 | 0.447 | AVRG | | 0.416 | | 11.8 | |
| Ethyl Acetate | 6710<br>8670 | 42053 | 158992 | 472909 | 938737 | 1869543 | WLINR | -0.003 | 4.02 | | 0.998 | |
| Methyl acrylate | 0.213<br>0.191 | 0.223 | 0.224 | 0.250 | 0.265 | 0.249 | AVRG | | 0.231 | | 11.0 | |
| Carbon Tetrachloride | 2612<br>6249 | 45979 | 178993 | 556541 | 1141242 | 2364065 | WLINR | 0.014 | 3.24 | | 0.997 | |
| Tetrahydrofuran | 0.069<br>0.063 | 0.068 | 0.066 | 0.075 | 0.078 | 0.074 | AVRG | | 0.071 | | 7.34 | |
| 1,1,1-Trichloroethane | 0.253<br>0.278 | 0.325 | 0.318 | 0.355 | 0.376 | 0.359 | AVRG | | 0.324 | | 13.9 | |
| 2-Butanone | 0.031<br>0.031 | 0.034 | 0.033 | 0.036 | 0.038 | 0.036 | AVRG | | 0.034 | | 7.73 | |
| 1,1-Dichloropropene | 0.280<br>0.252 | 0.316 | 0.290 | 0.331 | 0.346 | 0.327 | AVRG | | 0.306 | | 10.9 | |
| 1-Chlorobutane | 0.234<br>0.167 | 0.199 | 0.175 | 0.197 | 0.210 | 0.197 | AVRG | | 0.197 | | 11.3 | |
| Heptane | 0.195<br>0.160 | 0.183 | 0.158 | 0.175 | 0.194 | 0.179 | AVRG | | 0.178 | | 8.30 | |
| Benzene | 0.945<br>0.864 | 0.948 | 0.879 | 0.978 | 1.01 | 0.958 | AVRG | | 0.941 | | 5.62 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240625 25-8260b09D

## Volatiles by EPA 8260D

**ICAL Start Date** 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 5 / 10

| Compound | 0.500 Level 8 / 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Propionitrile | 0.030<br>0.035 | 0.037 | 0.037 | 0.042 | 0.043 | 0.041 | AVRG | | 0.038 | | 12.3 | |
| Methacrylonitrile | 0.114<br>0.085 | 0.106 | 0.111 | 0.125 | 0.130 | 0.125 | AVRG | | 0.114 | | 13.5 | |
| tert-Amyl methyl ether | 0.545<br>0.560 | 0.620 | 0.624 | 0.711 | 0.739 | 0.703 | AVRG | | 0.643 | | 11.8 | |
| Isobutyl alcohol | 394<br>1830 | 7621 | 34403 | 96464 | 211992 | 461252 | WLINR | 0.134 | 171 | | 0.995 | |
| 1,2-Dichloroethane | 0.291<br>0.272 | 0.298 | 0.275 | 0.315 | 0.318 | 0.301 | AVRG | | 0.296 | | 6.04 | |
| tert-Amyl Alcohol | 0.018<br>0.021 | 0.017 | 0.019 | 0.021 | 0.022 | 0.022 | AVRG | | 0.020 | | 10.2 | |
| Diisobutylene | 44441<br>50206 | 125872 | 376363 | 1061231 | 2168082 | 4304948 | WLINR | -0.050 | 1.77 | | 0.997 | |
| Trichloroethene | 0.246<br>0.210 | 0.231 | 0.215 | 0.254 | 0.260 | 0.251 | AVRG | | 0.238 | | 8.37 | |
| Methyl cyclohexane | 0.936<br>0.905 | 0.978 | 0.920 | 1.01 | 1.06 | 1.01 | AVRG | | 0.973 | | 5.67 | |
| tert-Amyl Ethylether | 7238<br>14413 | 87789 | 354280 | 1054026 | 2075694 | 4280148 | WLINR | 0.009 | 1.77 | | 0.999 | |
| Dibromomethane | 0.130<br>0.125 | 0.145 | 0.149 | 0.166 | 0.172 | 0.166 | AVRG | | 0.151 | | 12.2 | |
| 1,2-Dichloropropane | 0.194<br>0.200 | 0.226 | 0.217 | 0.245 | 0.257 | 0.245 | AVRG | | 0.226 | | 10.6 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240625 25-8260b09D

## Volatiles by EPA 8260D

**ICAL Start Date** 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 6 / 10

| Compound | 0.500 Level 8 | 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | 3592 | 7191 | 47880 | 189702 | 593498 | 1172803 | 2408792 | WLINR | 0.011 | 3.15 | | 0.998 | |
| Methyl methacrylate | 0.136 | 0.162 | 0.172 | 0.171 | 0.197 | 0.213 | 0.203 | AVRG | | 0.179 | | 14.8 | |
| 1,4-Dioxane | 0.004 | 0.003 | 0.004 | 0.003 | 0.004 | 0.004 | 0.003 | AVRG | | 0.004 | | 8.24 | |
| 2-Chloroethylvinyl ether | 1903 | 3719 | 23423 | 95250 | 300617 | 612756 | 1290655 | WLINR | 0.012 | 5.99 | | 0.997 | |
| cis-1,3-Dichloropropene | 4396 | 10566 | 57636 | 247573 | 767185 | 1499905 | 3091062 | WLINR | 0.009 | 0.980 | | 0.999 | |
| Octane | 0.381 | 0.308 | 0.356 | 0.362 | 0.384 | 0.410 | 0.381 | AVRG | | 0.369 | | 8.64 | |
| Toluene | 1.73 | 1.41 | 1.46 | 1.37 | 1.56 | 1.55 | 1.47 | AVRG | | 1.51 | | 7.88 | |
| Chloroacetonitrile | 0.037 | 0.030 | 0.033 | 0.035 | 0.044 | 0.044 | 0.040 | AVRG | | 0.038 | | 13.5 | |
| 2-Nitropropane | 3617 | 7049 | 42330 | 186383 | 593939 | 1224339 | 2564073 | WLINR | 0.062 | 6.01 | | 0.997 | |
| 1,1-Dichloro-2-Propanone | 307 | 649 | 4269 | 18693 | 56995 | 120735 | 244954 | WLINR | 0.065 | 62.2 | | 0.997 | |
| 4-Methyl-2-Pentanone(MIBK) | 15196 | 29113 | 187763 | 770302 | 2330999 | 4540988 | 8734882 | WLINR | 0.034 | 1.68 | | 0.997 | |
| trans-1,3-Dichloropropene | 4340 | 8929 | 54063 | 223814 | 694418 | 1390540 | 2883334 | WLINR | 0.010 | 1.06 | | 0.998 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240625 25-8260b09D

## Volatiles by EPA 8260D

**ICAL Start Date** 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 7 / 10

| Compound | 0.500 Level 8 | 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 0.500 | 0.491 | 0.554 | 0.529 | 0.591 | 0.602 | 0.571 | AVRG | | 0.548 | | 7.93 | |
| Ethyl Methacrylate | 3766 | 8256 | 51147 | 223797 | 687236 | 1354483 | 2747208 | WLINR | 0.011 | 1.10 | | 0.998 | |
| 1,1,2-Trichloroethane | 0.376 | 0.441 | 0.466 | 0.457 | 0.514 | 0.508 | 0.476 | AVRG | | 0.463 | | 9.98 | |
| Chlorodibromomethane | 2392 | 5551 | 36996 | 154197 | 487189 | 980105 | 2002816 | WLINR | 0.012 | 1.51 | | 0.998 | |
| 1,3-Dichloropropane | 0.755 | 0.805 | 0.901 | 0.922 | 1.03 | 1.03 | 0.959 | AVRG | | 0.914 | | 11.4 | |
| 1,2-Dibromoethane | 2751 | 6550 | 39025 | 153645 | 464742 | 921715 | 1854429 | WLINR | 0.008 | 1.62 | | 0.999 | |
| 2-Hexanone | 9727 | 21128 | 125367 | 515146 | 1586898 | 3096661 | 6043549 | WLINR | 0.037 | 2.44 | | 0.997 | |
| 1-Chlorohexane | 0.765 | 0.588 | 0.806 | 0.753 | 0.876 | 0.906 | 0.850 | AVRG | | 0.792 | | 13.4 | |
| Chlorobenzene | 1.35 | 1.32 | 1.54 | 1.50 | 1.69 | 1.71 | 1.63 | AVRG | | 1.53 | | 10.1 | |
| Ethylbenzene | 9240 | 13774 | 58271 | 219414 | 661770 | 1327438 | 2724522 | WLINR | -0.004 | 1.12 | | 0.999 | |
| 1,1,1,2-Tetrachloroethane | 2323 | 4988 | 34773 | 142310 | 438151 | 867838 | 1749666 | WLINR | 0.011 | 1.72 | | 0.998 | |
| mp-Xylene | 30052 | 36347 | 154227 | 535925 | 1603689 | 3168696 | 6367993 | WLINR | -0.026 | 0.946 | | 0.998 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240625 25-8260b09D

## Volatiles by EPA 8260D

**ICAL Start Date** 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 8 / 10

| Compound | 0.500 Level 8 | 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | 1.26 | 0.946 | 0.920 | 0.903 | 1.05 | 1.06 | 1.00 | AVRG | | 1.02 | | 12.1 | |
| Styrene | 7432 | 15866 | 91709 | 391500 | 1227060 | 2454318 | 4976988 | WLINR | 0.010 | 0.560 | | 0.998 | |
| Bromoform | 2337 | 3823 | 22861 | 102722 | 330003 | 690099 | 1437569 | WLINR | 0.012 | 1.98 | | 0.996 | |
| Isopropylbenzene | 13069 | 26101 | 150199 | 566222 | 1751429 | 3465736 | 6796201 | WLINR | 0.005 | 0.403 | | 0.999 | |
| 100 1,2-Dichloroethene, Total | 0.243 | 0.253 | 0.291 | 0.274 | 0.309 | 0.321 | 0.301 | AVRG | | 0.285 | | 10.2 | |
| Bromobenzene | 0.641 | 0.641 | 0.707 | 0.668 | 0.747 | 0.787 | 0.773 | AVRG | | 0.709 | | 8.66 | |
| n-Propylbenzene | 0.744 | 0.602 | 0.698 | 0.672 | 0.764 | 0.805 | 0.793 | AVRG | | 0.725 | | 10.0 | |
| 1,1,2,2-Tetrachloroethane | 0.581 | 0.580 | 0.693 | 0.706 | 0.776 | 0.804 | 0.795 | AVRG | | 0.705 | | 13.5 | |
| o-Chlorotoluene | 1.71 | 1.69 | 1.90 | 1.81 | 2.02 | 2.13 | 2.10 | AVRG | | 1.91 | | 9.40 | |
| 1,3,5-Trimethylbenzene | 2.01 | 1.77 | 1.95 | 1.88 | 2.11 | 2.24 | 2.17 | AVRG | | 2.02 | | 8.23 | |
| 1,2,3-Trichloropropane | 0.176 | 0.217 | 0.232 | 0.226 | 0.242 | 0.253 | 0.247 | AVRG | | 0.227 | | 11.4 | |
| trans-1,4-Dichloro-2-butene | 1054 | 1628 | 11562 | 47099 | 149889 | 297095 | 609147 | WLINR | 0.010 | 4.60 | | 0.998 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240625 25-8260b09D

## Volatiles by EPA 8260D

**ICAL Start Date** 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 9 / 10

| Compound | 0.500 Level 8 | 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| p-Chlorotoluene | 1.61 | 1.47 | 1.74 | 1.66 | 1.85 | 1.91 | 1.87 | AVRG | | 1.73 | | 9.23 | |
| tert-Butylbenzene | 0.416 | 0.378 | 0.501 | 0.481 | 0.528 | 0.544 | 0.531 | AVRG | | 0.483 | | 13.1 | |
| Pentachloroethane | 2125 | 4178 | 25931 | 104294 | 332675 | 667170 | 1367796 | WLINR | 0.010 | 2.05 | | 0.998 | |
| 1,2,4-Trimethylbenzene | 20714 | 27718 | 132392 | 488792 | 1510193 | 2964649 | 5884390 | WLINR | -0.005 | 0.469 | | 0.999 | |
| sec-Butylbenzene | 2.25 | 2.04 | 2.55 | 2.43 | 2.70 | 2.82 | 2.66 | AVRG | | 2.49 | | 11.0 | |
| p-Isopropyltoluene | 0.480 | 0.478 | 0.583 | 0.554 | 0.617 | 0.655 | 0.632 | AVRG | | 0.571 | | 12.4 | |
| 1,3-Dichlorobenzene | 1.00 | 1.10 | 1.20 | 1.14 | 1.28 | 1.33 | 1.31 | AVRG | | 1.19 | | 10.0 | |
| 1,4-Dichlorobenzene | 1.18 | 1.12 | 1.22 | 1.17 | 1.32 | 1.37 | 1.36 | AVRG | | 1.25 | | 8.19 | |
| Benzyl Chloride | 736 | 2620 | 12513 | 59767 | 194577 | 405519 | 867235 | WLINR | 0.016 | 3.32 | | 0.994 | |
| n-Butylbenzene | 0.592 | 0.451 | 0.496 | 0.485 | 0.550 | 0.585 | 0.577 | AVRG | | 0.534 | | 10.5 | |
| Hexachloroethane | 1752 | 3087 | 20694 | 85914 | 284589 | 590317 | 1225691 | WLINR | 0.013 | 2.32 | | 0.996 | |
| 1,2-Dichlorobenzene | 0.945 | 1.03 | 1.12 | 1.10 | 1.22 | 1.27 | 1.27 | AVRG | | 1.14 | | 11.0 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Form 6 Initial Calibration Data

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240625 25-8260b09D

## Volatiles by EPA 8260D

**ICAL Start Date** 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 10 / 10

| Compound | 0.500 Level 8 / 1.00 Level 1 | 5.00 Level 2 | 20.0 Level 3 | 50.0 Level 4 | 100 Level 5 | 200 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | 380<br>1191 | 6452 | 27852 | 86909 | 187226 | 386483 | WLINR | 0.014 | 7.36 | | 0.996 | |
| Nitrobenzene | 1713<br>3058 | 15593 | 74725 | 289112 | 699975 | 1663438 | QUAD | 0.000e+000 | 0.039 | 0.000 | 0.999 | |
| Hexachlorobutadiene | 1952<br>2971 | 21249 | 82540 | 257277 | 520622 | 1058167 | WLINR | 0.008 | 2.64 | | 0.998 | |
| 120 1,3-Dichloropropene, Total | 8736<br>19495 | 111699 | 471387 | 1461603 | 2890445 | 5974396 | WLINR | 0.019 | 1.02 | | 0.999 | |
| 1,2,4-Trichlorobenzene | 0.674<br>0.641 | 0.693 | 0.697 | 0.816 | 0.878 | 0.878 | AVRG | | 0.754 | | 13.3 | |
| 121 Total Xylenes | 38742<br>49625 | 219745 | 785145 | 2376968 | 4684805 | 9434263 | WLINR | -0.027 | 0.958 | | 0.998 | |
| Naphthalene | 10056<br>18088 | 109460 | 463248 | 1514181 | 3095315 | 6235557 | WLINR | 0.011 | 0.448 | | 0.997 | |
| 1,2,3-Trichlorobenzene | 3948<br>7150 | 45198 | 178753 | 573042 | 1155326 | 2411703 | WLINR | 0.010 | 1.17 | | 0.997 | |
| 41 Dibromofluoromethane | 0.230<br>0.233 | 0.243 | 0.235 | 0.237 | 0.242 | 0.236 | AVRG | | 0.237 | | 2.04 | |
| 51 1,2-Dichloroethane-d4 | 0.258<br>0.252 | 0.264 | 0.250 | 0.241 | 0.250 | 0.232 | AVRG | | 0.250 | | 4.18 | |
| 68 Toluene-d8 | 2.47<br>2.39 | 2.46 | 2.43 | 2.35 | 2.34 | 2.19 | AVRG | | 2.38 | | 4.06 | |
| 92 4-Bromofluorobenzene | 0.858<br>0.818 | 0.847 | 0.853 | 0.782 | 0.857 | 0.795 | AVRG | | 0.830 | | 3.81 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

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Form 6I

# Initial Calibration Verification (ICV)

## Volatiles by EPA 8260D

Workorder

**3366027**

Client

ALS Houston

Project

AHH131|HS24061196

07/09/2024

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# Form 6I Initial Calibration Verification (ICV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

## 8260D

**RunID** 23240625_2324062515ICVQ.D

**Sample Matrix** LIQUID
**Lab Smp Id** ICVQ
**Data Type** MS DATA
**File ID** 2324062515ICVQ.D
**Fraction** VOA
**SampleType** ICV
**Inj Date** 25-JUN-2024 1539

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 20.0 | 20.0 | 99.8 | 80-120 | |
| Chloromethane | 20.0 | 18.3 | 91.6 | 80-120 | |
| Vinyl Chloride | 20.0 | 19.9 | 99.4 | 80-120 | |
| Bromomethane | 20.0 | 17.5 | 87.6 | 80-120 | |
| Chloroethane | 20.0 | 20.3 | 102 | 80-120 | |
| Pentane | 20.0 | 17.1 | 85.4 | 80-120 | |
| Trichlorofluoromethane | 20.0 | 19.3 | 96.5 | 80-120 | |
| Dichlorofluoromethane | 20.0 | 21.9 | 110 | 80-120 | |
| Ethyl Ether | 20.0 | 22.5 | 112 | 80-120 | |
| 1,1-Dichloroethene | 20.0 | 22.0 | 110 | 80-120 | |
| Freon 113 | 20.0 | 21.7 | 108 | 80-120 | |
| Carbon Disulfide | 20.0 | 21.2 | 106 | 80-120 | |
| Iodomethane | 20.0 | 16.9 | 84.6 | 80-120 | |
| Acrolein | 150 | 169 | 113 | 80-120 | |
| Isopropyl Alcohol | 100 | 101 | 101 | 80-120 | |
| 3-Chloro-1-propene | 20.0 | 21.5 | 108 | 80-120 | |
| Methylene Chloride | 20.0 | 22.5 | 113 | 80-120 | |
| Acetone | 100 | 116 | 116 | 80-120 | |
| Methyl acetate | 20.0 | 20.6 | 103 | 80-120 | |
| trans-1,2-Dichloroethene | 20.0 | 21.5 | 107 | 80-120 | |
| Hexane | 20.0 | 19.5 | 97.3 | 80-120 | |
| Methyl t-Butyl Ether | 20.0 | 23.0 | 115 | 80-120 | |
| tert.- Butyl Alcohol | 100 | 110 | 110 | 80-120 | |
| Acetonitrile | 100 | 113 | 113 | 80-120 | |
| Diisopropyl ether | 20.0 | 22.5 | 112 | 80-120 | |
| Chloroprene | 20.0 | 16.1 | 80.3 | 80-120 | |
| 1,1-Dichloroethane | 20.0 | 20.1 | 101 | 80-120 | |
| Acrylonitrile | 100 | 97.2 | 97.2 | 80-120 | |
| Ethyl tert-butyl ether | 20.0 | 21.2 | 106 | 80-120 | |
| n-Propanol | 200 | 231 | 116 | 80-120 | |
| Vinyl acetate | 20.0 | 19.4 | 96.8 | 80-120 | |
| cis-1,2-Dichloroethene | 20.0 | 21.9 | 109 | 80-120 | |
| 2,2-Dichloropropane | 20.0 | 19.7 | 98.7 | 80-120 | |
| Bromochloromethane | 20.0 | 22.5 | 112 | 80-120 | |

# Form 6I Initial Calibration Verification (ICV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

## 8260D

**RunID** 23240625_2324062515ICVQ.D

**Sample Matrix** LIQUID
**Lab Smp Id** ICVQ
**Data Type** MS DATA
**File ID** 2324062515ICVQ.D
**Fraction** VOA
**SampleType** ICV
**Inj Date** 25-JUN-2024 1539

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| Cyclohexane | 20.0 | 21.8 | 109 | 80-120 | |
| Chloroform | 20.0 | 21.7 | 108 | 80-120 | |
| Ethyl acetate | 20.0 | 21.7 | 109 | 80-120 | |
| Methyl acrylate | 20.0 | 20.7 | 104 | 80-120 | |
| Carbon Tetrachloride | 20.0 | 19.4 | 96.9 | 80-120 | |
| Tetrahydrofuran | 100 | 111 | 111 | 80-120 | |
| 1,1,1-Trichloroethane | 20.0 | 22.1 | 110 | 80-120 | |
| 2-Butanone | 100 | 110 | 110 | 80-120 | |
| 1,1-Dichloropropene | 20.0 | 21.4 | 107 | 80-120 | |
| 1-Chlorobutane | 20.0 | 20.9 | 105 | 80-120 | |
| Heptane | 20.0 | 19.3 | 96.3 | 80-120 | |
| Benzene | 20.0 | 21.8 | 109 | 80-120 | |
| Propionitrile | 100 | 99.5 | 99.5 | 80-120 | |
| Methacrylonitrile | 20.0 | 22.5 | 112 | 80-120 | |
| tert-amyl methyl E | 20.0 | 21.3 | 107 | 80-120 | |
| 1,2-Dichloroethane | 20.0 | 22.0 | 110 | 80-120 | |
| tert-Amyl Alcohol | 100 | 106 | 106 | 80-120 | |
| Isobutyl alcohol | 200 | 172 | 86.2 | 80-120 | |
| Diisobutylene | 20.0 | 19.6 | 98.1 | 80-120 | |
| Trichloroethene | 20.0 | 20.9 | 105 | 80-120 | |
| Methyl cyclohexane | 20.0 | 21.6 | 108 | 80-120 | |
| tert-Amyl Ethylether | 20.0 | 21.5 | 108 | 80-120 | |
| Dibromomethane | 20.0 | 22.2 | 111 | 80-120 | |
| 1,2-Dichloropropane | 20.0 | 22.5 | 113 | 80-120 | |
| Bromodichloromethane | 20.0 | 22.8 | 114 | 80-120 | |
| Methyl methacrylate | 20.0 | 20.1 | 101 | 80-120 | |
| 1,4-Dioxane | 500 | 0.000 | | 80-120 | * |
| 2-Chloroethylvinyl ether | 20.0 | 16.0 | 80.0 | 80-120 | |
| cis-1,3-Dichloropropene | 20.0 | 20.2 | 101 | 80-120 | |
| Octane | 20.0 | 19.9 | 99.4 | 80-120 | |
| Toluene | 20.0 | 21.4 | 107 | 80-120 | |
| Chloroacetonitrile | 100 | 97.9 | 97.9 | 80-120 | |
| 2-Nitropropane | 100 | 96.9 | 96.9 | 80-120 | |
| 1,1-Dichloro-2-pro | 100 | 109 | 109 | 80-120 | |

# Form 6I Initial Calibration Verification (ICV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

## 8260D

**RunID** 23240625_2324062515ICVQ.D

**Sample Matrix** LIQUID
**Lab Smp Id** ICVQ
**Data Type** MS DATA
**File ID** 2324062515ICVQ.D
**Fraction** VOA
**SampleType** ICV
**Inj Date** 25-JUN-2024 1539

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone(MIBK) | 100 | 106 | 106 | 80-120 | |
| Tetrachloroethene | 20.0 | 21.6 | 108 | 80-120 | |
| trans-1,3-Dichloropropene | 20.0 | 20.7 | 103 | 80-120 | |
| Ethyl methacrylate | 20.0 | 20.6 | 103 | 80-120 | |
| 1,1,2-Trichloroethane | 20.0 | 23.0 | 115 | 80-120 | |
| Chlorodibromomethane | 20.0 | 19.8 | 99.1 | 80-120 | |
| 1,3-Dichloropropane | 20.0 | 22.6 | 113 | 80-120 | |
| 1,2-Dibromoethane | 20.0 | 22.5 | 113 | 80-120 | |
| 2-Hexanone | 100 | 102 | 102 | 80-120 | |
| 1-Chlorohexane | 20.0 | 21.9 | 109 | 80-120 | |
| Chlorobenzene | 20.0 | 22.2 | 111 | 80-120 | |
| Ethylbenzene | 20.0 | 22.0 | 110 | 80-120 | |
| 1,1,1,2-Tetrachloroethane | 20.0 | 22.9 | 114 | 80-120 | |
| mp-Xylene | 40.0 | 44.2 | 110 | 80-120 | |
| o-Xylene | 20.0 | 22.5 | 112 | 80-120 | |
| Styrene | 20.0 | 21.6 | 108 | 80-120 | |
| Bromoform | 20.0 | 20.7 | 103 | 80-120 | |
| Isopropylbenzene | 20.0 | 23.2 | 116 | 80-120 | |
| Bromobenzene | 20.0 | 22.2 | 111 | 80-120 | |
| n-Propylbenzene | 20.0 | 21.1 | 106 | 80-120 | |
| 1,1,2,2-Tetrachloroethane | 20.0 | 23.3 | 117 | 80-120 | |
| o-Chlorotoluene | 20.0 | 22.6 | 113 | 80-120 | |
| 1,3,5-Trimethylbenzene | 20.0 | 22.9 | 114 | 80-120 | |
| 1,2,3-Trichloropropane | 20.0 | 23.0 | 115 | 80-120 | |
| trans-1,4-Dichloro-2-butene | 20.0 | 19.8 | 98.8 | 80-120 | |
| 1,2-Dichloroethene, Total | 40.0 | 43.4 | 108 | 80-120 | |
| p-Chlorotoluene | 20.0 | 22.2 | 111 | 80-120 | |
| tert-Butylbenzene | 20.0 | 22.6 | 113 | 80-120 | |
| Pentachloroethane | 20.0 | 19.5 | 97.7 | 80-120 | |
| 1,2,4-Trimethylbenzene | 20.0 | 22.6 | 113 | 80-120 | |
| sec-Butylbenzene | 20.0 | 22.4 | 112 | 80-120 | |
| p-Isopropyltoluene | 20.0 | 22.4 | 112 | 80-120 | |
| 1,3-Dichlorobenzene | 20.0 | 21.9 | 110 | 80-120 | |
| 1,4-Dichlorobenzene | 20.0 | 22.0 | 110 | 80-120 | |

# Form 6I Initial Calibration Verification (ICV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

## 8260D

**RunID** 23240625_2324062515ICVQ.D

**Sample Matrix** LIQUID
**Lab Smp Id** ICVQ
**Data Type** MS DATA
**File ID** 2324062515ICVQ.D
**Fraction** VOA
**SampleType** ICV
**Inj Date** 25-JUN-2024 1539

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| Benzyl Chloride | 20.0 | 17.4 | 87.2 | 80-120 | |
| n-Butylbenzene | 20.0 | 21.4 | 107 | 80-120 | |
| Hexachloroethane | 20.0 | 20.1 | 100 | 80-120 | |
| 1,2-Dichlorobenzene | 20.0 | 21.9 | 110 | 80-120 | |
| 1,2-Dibromo-3-chloropropane | 20.0 | 21.2 | 106 | 80-120 | |
| Nitrobenzene | 200 | 187 | 93.7 | 80-120 | |
| Hexachlorobutadiene | 20.0 | 21.6 | 108 | 80-120 | |
| 1,2,4-Trichlorobenzene | 20.0 | 24.0 | 120 | 80-120 | |
| Naphthalene | 20.0 | 21.7 | 108 | 80-120 | |
| 1,2,3-Trichlorobenzene | 20.0 | 22.4 | 112 | 80-120 | |
| 1,3-Dichloropropene, Total | 40.0 | 40.8 | 102 | 80-120 | |
| 121 TOTAL XYLENES | 60.0 | 66.7 | 111 | 80-120 | |

# Form 6I Initial Calibration Verification (ICV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

## 8260D

**RunID** 25240625_2524062515ICVQ.D

**Sample Matrix** LIQUID
**Lab Smp Id** ICVQ
**Data Type** MS DATA
**File ID** 2524062515ICVQ.D
**Fraction** VOA
**SampleType** ICV
**Inj Date** 25-JUN-2024 1508

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 20.0 | 20.7 | 103 | 80-120 | |
| Chloromethane | 20.0 | 19.5 | 97.7 | 80-120 | |
| Vinyl Chloride | 20.0 | 20.4 | 102 | 80-120 | |
| Bromomethane | 20.0 | 20.3 | 102 | 80-120 | |
| Chloroethane | 20.0 | 21.2 | 106 | 80-120 | |
| Pentane | 20.0 | 20.7 | 104 | 80-120 | |
| Trichlorofluoromethane | 20.0 | 20.4 | 102 | 80-120 | |
| Dichlorofluoromethane | 20.0 | 23.2 | 116 | 80-120 | |
| Ethyl Ether | 20.0 | 21.6 | 108 | 80-120 | |
| 1,1-Dichloroethene | 20.0 | 22.8 | 114 | 80-120 | |
| Freon 113 | 20.0 | 22.8 | 114 | 80-120 | |
| Carbon Disulfide | 20.0 | 21.7 | 108 | 80-120 | |
| Iodomethane | 20.0 | 16.8 | 84.0 | 80-120 | |
| Acrolein | 150 | 159 | 106 | 80-120 | |
| Isopropyl Alcohol | 100 | 103 | 103 | 80-120 | |
| 3-Chloro-1-propene | 20.0 | 22.9 | 115 | 80-120 | |
| Methylene Chloride | 20.0 | 22.3 | 111 | 80-120 | |
| Acetone | 100 | 107 | 107 | 80-120 | |
| Methyl acetate | 20.0 | 21.2 | 106 | 80-120 | |
| trans-1,2-Dichloroethene | 20.0 | 23.0 | 115 | 80-120 | |
| Hexane | 20.0 | 20.9 | 105 | 80-120 | |
| Methyl t-Butyl Ether | 20.0 | 20.7 | 103 | 80-120 | |
| tert.- Butyl Alcohol | 100 | 112 | 112 | 80-120 | |
| Acetonitrile | 100 | 111 | 111 | 80-120 | |
| Diisopropyl ether | 20.0 | 22.5 | 113 | 80-120 | |
| Chloroprene | 20.0 | 22.9 | 114 | 80-120 | |
| 1,1-Dichloroethane | 20.0 | 22.6 | 113 | 80-120 | |
| Acrylonitrile | 100 | 114 | 114 | 80-120 | |
| Ethyl tert-butyl ether | 20.0 | 23.2 | 116 | 80-120 | |
| n-Propanol | 200 | 208 | 104 | 80-120 | |
| Vinyl acetate | 20.0 | 18.9 | 94.5 | 80-120 | |
| cis-1,2-Dichloroethene | 20.0 | 22.6 | 113 | 80-120 | |
| 2,2-Dichloropropane | 20.0 | 20.5 | 103 | 80-120 | |
| Bromochloromethane | 20.0 | 23.4 | 117 | 80-120 | |

# Form 6I Initial Calibration Verification (ICV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

## 8260D

**RunID** 25240625_2524062515ICVQ.D

**Sample Matrix** LIQUID
**Lab Smp Id** ICVQ
**Data Type** MS DATA
**File ID** 2524062515ICVQ.D
**Fraction** VOA
**SampleType** ICV
**Inj Date** 25-JUN-2024 1508

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| Cyclohexane | 20.0 | 22.6 | 113 | 80-120 | |
| Chloroform | 20.0 | 22.8 | 114 | 80-120 | |
| Ethyl acetate | 20.0 | 20.0 | 99.9 | 80-120 | |
| Methyl acrylate | 20.0 | 22.6 | 113 | 80-120 | |
| Carbon Tetrachloride | 20.0 | 19.7 | 98.3 | 80-120 | |
| Tetrahydrofuran | 100 | 106 | 106 | 80-120 | |
| 1,1,1-Trichloroethane | 20.0 | 23.6 | 118 | 80-120 | |
| 2-Butanone | 100 | 110 | 110 | 80-120 | |
| 1,1-Dichloropropene | 20.0 | 22.3 | 112 | 80-120 | |
| 1-Chlorobutane | 20.0 | 21.5 | 107 | 80-120 | |
| Heptane | 20.0 | 20.9 | 104 | 80-120 | |
| Benzene | 20.0 | 21.5 | 108 | 80-120 | |
| Propionitrile | 100 | 111 | 111 | 80-120 | |
| Methacrylonitrile | 20.0 | 22.2 | 111 | 80-120 | |
| tert-amyl methyl E | 20.0 | 23.0 | 115 | 80-120 | |
| 1,2-Dichloroethane | 20.0 | 21.8 | 109 | 80-120 | |
| tert-Amyl Alcohol | 100 | 114 | 114 | 80-120 | |
| Isobutyl alcohol | 200 | 164 | 81.8 | 80-120 | |
| Diisobutylene | 20.0 | 20.4 | 102 | 80-120 | |
| Trichloroethene | 20.0 | 21.8 | 109 | 80-120 | |
| Methyl cyclohexane | 20.0 | 21.9 | 110 | 80-120 | |
| tert-Amyl Ethylether | 20.0 | 19.7 | 98.5 | 80-120 | |
| Dibromomethane | 20.0 | 22.3 | 112 | 80-120 | |
| 1,2-Dichloropropane | 20.0 | 22.4 | 112 | 80-120 | |
| Bromodichloromethane | 20.0 | 20.4 | 102 | 80-120 | |
| Methyl methacrylate | 20.0 | 22.0 | 110 | 80-120 | |
| 1,4-Dioxane | 500 | 0.000 | | 80-120 | * |
| 2-Chloroethylvinyl ether | 20.0 | 19.9 | 99.7 | 80-120 | |
| cis-1,3-Dichloropropene | 20.0 | 19.6 | 98.0 | 80-120 | |
| Octane | 20.0 | 22.0 | 110 | 80-120 | |
| Toluene | 20.0 | 21.0 | 105 | 80-120 | |
| Chloroacetonitrile | 100 | 117 | 117 | 80-120 | |
| 2-Nitropropane | 100 | 93.1 | 93.1 | 80-120 | |
| 1,1-Dichloro-2-pro | 100 | 97.1 | 97.1 | 80-120 | |

# Form 6I Initial Calibration Verification (ICV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

## 8260D

**RunID** 25240625_2524062515ICVQ.D

**Sample Matrix** LIQUID
**Lab Smp Id** ICVQ
**Data Type** MS DATA
**File ID** 2524062515ICVQ.D
**Fraction** VOA
**SampleType** ICV
**Inj Date** 25-JUN-2024 1508

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone(MIBK) | 100 | 110 | 110 | 80-120 | |
| Tetrachloroethene | 20.0 | 22.0 | 110 | 80-120 | |
| trans-1,3-Dichloropropene | 20.0 | 20.0 | 100 | 80-120 | |
| Ethyl methacrylate | 20.0 | 19.8 | 99.0 | 80-120 | |
| 1,1,2-Trichloroethane | 20.0 | 22.3 | 111 | 80-120 | |
| Chlorodibromomethane | 20.0 | 19.4 | 97.2 | 80-120 | |
| 1,3-Dichloropropane | 20.0 | 22.8 | 114 | 80-120 | |
| 1,2-Dibromoethane | 20.0 | 20.1 | 101 | 80-120 | |
| 2-Hexanone | 100 | 108 | 108 | 80-120 | |
| 1-Chlorohexane | 20.0 | 22.6 | 113 | 80-120 | |
| Chlorobenzene | 20.0 | 21.9 | 110 | 80-120 | |
| Ethylbenzene | 20.0 | 20.9 | 104 | 80-120 | |
| 1,1,1,2-Tetrachloroethane | 20.0 | 20.2 | 101 | 80-120 | |
| mp-Xylene | 40.0 | 41.2 | 103 | 80-120 | |
| o-Xylene | 20.0 | 20.3 | 102 | 80-120 | |
| Styrene | 20.0 | 21.1 | 106 | 80-120 | |
| Bromoform | 20.0 | 18.5 | 92.7 | 80-120 | |
| Isopropylbenzene | 20.0 | 23.7 | 119 | 80-120 | |
| Bromobenzene | 20.0 | 21.4 | 107 | 80-120 | |
| n-Propylbenzene | 20.0 | 21.8 | 109 | 80-120 | |
| 1,1,2,2-Tetrachloroethane | 20.0 | 22.5 | 112 | 80-120 | |
| o-Chlorotoluene | 20.0 | 21.9 | 109 | 80-120 | |
| 1,3,5-Trimethylbenzene | 20.0 | 21.6 | 108 | 80-120 | |
| 1,2,3-Trichloropropane | 20.0 | 22.1 | 110 | 80-120 | |
| trans-1,4-Dichloro-2-butene | 20.0 | 19.7 | 98.7 | 80-120 | |
| 1,2-Dichloroethene, Total | 40.0 | 45.5 | 114 | 80-120 | |
| p-Chlorotoluene | 20.0 | 22.1 | 110 | 80-120 | |
| tert-Butylbenzene | 20.0 | 22.7 | 113 | 80-120 | |
| Pentachloroethane | 20.0 | 17.9 | 89.4 | 80-120 | |
| 1,2,4-Trimethylbenzene | 20.0 | 20.6 | 103 | 80-120 | |
| sec-Butylbenzene | 20.0 | 22.8 | 114 | 80-120 | |
| p-Isopropyltoluene | 20.0 | 21.9 | 110 | 80-120 | |
| 1,3-Dichlorobenzene | 20.0 | 22.3 | 112 | 80-120 | |
| 1,4-Dichlorobenzene | 20.0 | 21.9 | 109 | 80-120 | |

# Form 6I Initial Calibration Verification (ICV)

| | | | |
|---|---|---|---|
| **Client** | ALS Houston | Workorder | |
| **Project** | AHH131\|HS24061196 | **3366027** | |

## 8260D

RunID: **25240625_2524062515ICVQ.D**

| | | | |
|---|---|---|---|
| **Sample Matrix** | LIQUID | **Fraction** | VOA |
| **Lab Smp Id** | ICVQ | | |
| **Data Type** | MS DATA | **SampleType** | ICV |
| **File ID** | 2524062515ICVQ.D | **Inj Date** | 25-JUN-2024 1508 |

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| Benzyl Chloride | 20.0 | 16.0 | 80.2 | 80-120 | |
| n-Butylbenzene | 20.0 | 21.4 | 107 | 80-120 | |
| Hexachloroethane | 20.0 | 18.6 | 93.2 | 80-120 | |
| 1,2-Dichlorobenzene | 20.0 | 22.3 | 112 | 80-120 | |
| 1,2-Dibromo-3-chloropropane | 20.0 | 18.2 | 91.2 | 80-120 | |
| Nitrobenzene | 200 | 166 | 82.9 | 80-120 | |
| Hexachlorobutadiene | 20.0 | 21.0 | 105 | 80-120 | |
| 1,2,4-Trichlorobenzene | 20.0 | 23.4 | 117 | 80-120 | |
| Naphthalene | 20.0 | 19.8 | 99.1 | 80-120 | |
| 1,2,3-Trichlorobenzene | 20.0 | 19.3 | 96.6 | 80-120 | |
| 1,3-Dichloropropene, Total | 40.0 | 39.6 | 99.1 | 80-120 | |
| 121 TOTAL XYLENES | 60.0 | 61.5 | 103 | 80-120 | |

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Form 7

# Continuing Calibration Verification (CCV)

## Volatiles by EPA 8260D

Workorder

**3366027**

Client

ALS Houston

Project

AHH131|HS24061196

07/09/2024

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# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 23240627_2324062701.D

## Volatiles by EPA 8260D

**Instrument ID** ms23.i
**Lab File ID** 2324062701.D
**Analysis Type** WATER
**Lab Sample ID** 1800

**Injection Date** 27-JUN-2024 0844
**ICAL Date(s)** 25-JUN-2024, 25-JUN-2024
**ICAL Times** 11:40, 13:39
**Quant Type** ISTD

| Compound | RRF / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.440 | 0.422 | 0.422 | 0.010 | -4.018 | 20.0 | Averaged | |
| Chloromethane | 0.269 | 0.261 | 0.261 | 0.100 | -2.886 | 20.0 | Averaged | |
| Vinyl Chloride | 0.265 | 0.270 | 0.270 | 0.010 | 2.08 | 20.0 | Averaged | |
| Bromomethane | 50.0 | 48.8 | 5.12 | 0.010 | -2.469 | 20.0 | Wt Linear | |
| Chloroethane | 0.146 | 0.158 | 0.158 | 0.010 | 8.27 | 20.0 | Averaged | |
| Pentane | 0.178 | 0.165 | 0.165 | 0.010 | -7.165 | 20.0 | Averaged | |
| Trichlorofluoromethane | 0.564 | 0.549 | 0.549 | 0.010 | -2.599 | 20.0 | Averaged | |
| Dichlorofluoromethane | 0.476 | 0.503 | 0.503 | 0.010 | 5.63 | 20.0 | Averaged | |
| Ethyl Ether | 0.149 | 0.155 | 0.155 | 0.010 | 4.31 | 20.0 | Averaged | |
| 1,1-Dichloroethene | 0.336 | 0.338 | 0.338 | 0.010 | 0.669 | 20.0 | Averaged | |
| Freon 113 | 0.229 | 0.236 | 0.236 | 0.010 | 3.01 | 20.0 | Averaged | |
| Carbon Disulfide | 0.652 | 0.671 | 0.671 | 0.010 | 2.86 | 20.0 | Averaged | |
| Iodomethane | 50.0 | 51.8 | 7.07 | 0.010 | 3.64 | 20.0 | Quadratic | |
| Acrolein | 0.042 | 0.044 | 0.044 | 0.000 | 4.51 | 20.0 | Averaged | |
| Isopropyl Alcohol | 250 | 211 | 67.8 | 0.000 | -15.523 | 20.0 | Wt Linear | |
| 3-Chloro-1-propene | 50.0 | 49.9 | 3.91 | 0.010 | -0.234 | 20.0 | Wt Linear | |
| Methylene Chloride | 0.244 | 0.256 | 0.256 | 0.010 | 5.01 | 20.0 | Averaged | |
| Acetone | 0.022 | 0.022 | 0.022 | 0.000 | -0.120 | 20.0 | Averaged | |
| Methyl acetate | 0.057 | 0.049 | 0.049 | 0.005 | -13.795 | 20.0 | Averaged | |
| trans-1,2-Dichloroethene | 0.308 | 0.323 | 0.323 | 0.010 | 4.90 | 20.0 | Averaged | |
| Hexane | 0.457 | 0.435 | 0.435 | 0.010 | -4.767 | 20.0 | Averaged | |
| Methyl t-Butyl Ether | 0.823 | 0.871 | 0.871 | 0.010 | 5.86 | 20.0 | Averaged | |
| tert.- Butyl Alcohol | 0.034 | 0.035 | 0.035 | 0.000 | 1.76 | 20.0 | Averaged | |
| Acetonitrile | 0.026 | 0.025 | 0.025 | 0.000 | -1.889 | 20.0 | Averaged | |
| Diisopropyl ether | 0.569 | 0.611 | 0.611 | 0.010 | 7.29 | 20.0 | Averaged | |
| Chloroprene | 50.0 | 48.7 | 2.59 | 0.010 | -2.667 | 20.0 | Wt Linear | |
| 1,1-Dichloroethane | 50.0 | 48.6 | 2.35 | 0.100 | -2.718 | 20.0 | Wt Linear | |
| Acrylonitrile | 250 | 222 | 9.92 | 0.000 | -11.197 | 20.0 | Wt Linear | |
| Ethyl tert-butyl ether | 50.0 | 48.5 | 1.26 | 0.010 | -3.037 | 20.0 | Wt Linear | |
| n-Propanol | 0.013 | 0.014 | 0.014 | 0.000 | 5.53 | 20.0 | Averaged | |
| Vinyl Acetate | 50.0 | 48.1 | 14.2 | 0.010 | -3.877 | 20.0 | Wt Linear | |
| cis-1,2-Dichloroethene | 0.319 | 0.336 | 0.336 | 0.010 | 5.53 | 20.0 | Averaged | |
| 2,2-Dichloropropane | 0.421 | 0.478 | 0.478 | 0.010 | 13.7 | 20.0 | Averaged | |
| Bromochloromethane | 0.154 | 0.164 | 0.164 | 0.010 | 6.75 | 20.0 | Averaged | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 23240627_2324062701.D

## Volatiles by EPA 8260D

**Instrument ID** ms23.i
**Lab File ID** 2324062701.D
**Analysis Type** WATER
**Lab Sample ID** 1800
**Injection Date** 27-JUN-2024 0844
**ICAL Date(s)** 25-JUN-2024, 25-JUN-2024
**ICAL Times** 11:40, 13:39
**Quant Type** ISTD

| Compound | RRF / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 0.358 | 0.365 | 0.365 | 0.010 | 1.95 | 20.0 | Averaged | |
| Chloroform | 0.535 | 0.546 | 0.546 | 0.010 | 2.04 | 20.0 | Averaged | |
| Ethyl Acetate | 0.235 | 0.240 | 0.240 | 0.010 | 1.88 | 20.0 | Averaged | |
| Methyl acrylate | 50.0 | 46.8 | 4.27 | 0.010 | -6.389 | 20.0 | Wt Linear | |
| Carbon Tetrachloride | 50.0 | 47.3 | 2.18 | 0.010 | -5.325 | 20.0 | Wt Linear | |
| 41 Dibromofluoromethane | 0.295 | 0.291 | 0.291 | 0.010 | -1.335 | 20.0 | Averaged | |
| Tetrahydrofuran | 0.062 | 0.062 | 0.062 | 0.000 | -0.724 | 20.0 | Averaged | |
| 1,1,1-Trichloroethane | 0.489 | 0.501 | 0.501 | 0.010 | 2.54 | 20.0 | Averaged | |
| 2-Butanone | 0.035 | 0.035 | 0.035 | 0.000 | 2.58 | 20.0 | Averaged | |
| 1,1-Dichloropropene | 0.348 | 0.366 | 0.366 | 0.010 | 5.18 | 20.0 | Averaged | |
| 1-Chlorobutane | 0.226 | 0.227 | 0.227 | 0.010 | 0.566 | 20.0 | Averaged | |
| Heptane | 0.161 | 0.169 | 0.169 | 0.000 | 5.27 | 20.0 | Averaged | |
| Benzene | 0.913 | 0.958 | 0.958 | 0.010 | 4.93 | 20.0 | Averaged | |
| Propionitrile | 250 | 236 | 26.1 | 0.000 | -5.540 | 20.0 | Wt Linear | |
| Methacrylonitrile | 0.112 | 0.113 | 0.113 | 0.010 | 1.02 | 20.0 | Averaged | |
| tert-Amyl methyl ether | 50.0 | 48.8 | 1.23 | 0.010 | -2.335 | 20.0 | Wt Linear | |
| Isobutyl alcohol | 500 | 460 | 160 | 0.000 | -8.024 | 20.0 | Quadratic | |
| 51 1,2-Dichloroethane-d4 | 0.377 | 0.363 | 0.363 | 0.010 | -3.875 | 20.0 | Averaged | |
| 1,2-Dichloroethane | 0.431 | 0.440 | 0.440 | 0.010 | 2.12 | 20.0 | Averaged | |
| tert-Amyl Alcohol | 0.026 | 0.025 | 0.025 | 0.002 | -0.629 | 20.0 | Averaged | |
| Diisobutylene | 50.0 | 48.4 | 2.07 | 0.010 | -3.132 | 20.0 | Wt Linear | |
| Trichloroethene | 0.280 | 0.283 | 0.283 | 0.010 | 1.16 | 20.0 | Averaged | |
| Methyl cyclohexane | 0.856 | 0.892 | 0.892 | 0.005 | 4.18 | 20.0 | Averaged | |
| tert-Amyl Ethylether | 0.552 | 0.596 | 0.596 | 0.010 | 7.96 | 20.0 | Averaged | |
| Dibromomethane | 0.180 | 0.192 | 0.192 | 0.010 | 6.64 | 20.0 | Averaged | |
| 1,2-Dichloropropane | 0.199 | 0.214 | 0.214 | 0.010 | 7.38 | 20.0 | Averaged | |
| Bromodichloromethane | 0.384 | 0.410 | 0.410 | 0.010 | 6.84 | 20.0 | Averaged | |
| Methyl methacrylate | 50.0 | 46.4 | 4.53 | 0.010 | -7.232 | 20.0 | Wt Linear | |
| 1,4-Dioxane | 0.004 | 0.004 | 0.004 | 0.000 | 2.82 | 20.0 | Averaged | |
| 2-Chloroethylvinyl ether | 50.0 | 43.2 | 10.3 | 0.010 | -13.619 | 20.0 | Quadratic | |
| cis-1,3-Dichloropropene | 50.0 | 50.4 | 0.942 | 0.010 | 0.708 | 20.0 | Wt Linear | |
| Octane | 0.335 | 0.398 | 0.398 | 0.010 | 19.0 | 20.0 | Averaged | |
| 68 Toluene-d8 | 2.39 | 2.39 | 2.39 | 0.010 | -0.189 | 20.0 | Averaged | |
| Toluene | 1.47 | 1.55 | 1.55 | 0.010 | 5.39 | 20.0 | Averaged | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 23240627_2324062701.D

## Volatiles by EPA 8260D

**Instrument ID** ms23.i
**Lab File ID** 2324062701.D
**Analysis Type** WATER
**Lab Sample ID** 1800
**Injection Date** 27-JUN-2024 0844
**ICAL Date(s)** 25-JUN-2024, 25-JUN-2024
**ICAL Times** 11:40, 13:39
**Quant Type** ISTD

| Compound | RRF / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| Chloroacetonitrile | 250 | 231 | 23.5 | 0.000 | -7.504 | 20.0 | Wt Linear | |
| 2-Nitropropane | 250 | 228 | 4.38 | 0.005 | -8.714 | 20.0 | Wt Linear | |
| 1,1-Dichloro-2-Propanone | 0.021 | 0.020 | 0.020 | 0.001 | -5.309 | 20.0 | Averaged | |
| 4-Methyl-2-Pentanone(MIBK) | 250 | 243 | 1.91 | 0.010 | -2.628 | 20.0 | Wt Linear | |
| trans-1,3-Dichloropropene | 50.0 | 50.3 | 0.913 | 0.010 | 0.686 | 20.0 | Wt Linear | |
| Tetrachloroethene | 0.638 | 0.645 | 0.645 | 0.010 | 1.10 | 20.0 | Averaged | |
| Ethyl Methacrylate | 50.0 | 48.3 | 1.16 | 0.010 | -3.460 | 20.0 | Wt Linear | |
| 1,1,2-Trichloroethane | 0.436 | 0.465 | 0.465 | 0.010 | 6.73 | 20.0 | Averaged | |
| Chlorodibromomethane | 50.0 | 47.6 | 1.19 | 0.010 | -4.793 | 20.0 | Wt Linear | |
| 1,3-Dichloropropane | 0.914 | 0.990 | 0.990 | 0.010 | 8.33 | 20.0 | Averaged | |
| 1,2-Dibromoethane | 0.638 | 0.675 | 0.675 | 0.010 | 5.87 | 20.0 | Averaged | |
| 2-Hexanone | 250 | 238 | 2.65 | 0.010 | -4.698 | 20.0 | Wt Linear | |
| 1-Chlorohexane | 0.766 | 0.823 | 0.823 | 0.010 | 7.45 | 20.0 | Averaged | |
| Chlorobenzene | 1.69 | 1.83 | 1.83 | 0.300 | 8.47 | 20.0 | Averaged | |
| Ethylbenzene | 0.888 | 0.939 | 0.939 | 0.010 | 5.74 | 20.0 | Averaged | |
| 1,1,1,2-Tetrachloroethane | 0.692 | 0.751 | 0.751 | 0.010 | 8.63 | 20.0 | Averaged | |
| mp-Xylene | 1.07 | 1.17 | 1.17 | 0.010 | 8.56 | 20.0 | Averaged | |
| o-Xylene | 1.06 | 1.16 | 1.16 | 0.010 | 10.1 | 20.0 | Averaged | |
| Styrene | 50.0 | 51.3 | 0.580 | 0.010 | 2.67 | 20.0 | Wt Linear | |
| Bromoform | 50.0 | 48.2 | 1.75 | 0.100 | -3.589 | 20.0 | Wt Linear | |
| Isopropylbenzene | 50.0 | 50.8 | 0.413 | 0.010 | 1.54 | 20.0 | Wt Linear | |
| 100 1,2-Dichloroethene, Total | 0.314 | 0.330 | 0.330 | 0.010 | 5.22 | 20.0 | Averaged | |
| 92 4-Bromofluorobenzene | 0.868 | 0.853 | 0.853 | 0.010 | -1.768 | 20.0 | Averaged | |
| Bromobenzene | 0.745 | 0.784 | 0.784 | 0.010 | 5.27 | 20.0 | Averaged | |
| n-Propylbenzene | 0.706 | 0.733 | 0.733 | 0.010 | 3.93 | 20.0 | Averaged | |
| 1,1,2,2-Tetrachloroethane | 0.616 | 0.659 | 0.659 | 0.300 | 6.98 | 20.0 | Averaged | |
| o-Chlorotoluene | 1.92 | 2.07 | 2.07 | 0.010 | 7.77 | 20.0 | Averaged | |
| 1,3,5-Trimethylbenzene | 2.08 | 2.28 | 2.28 | 0.010 | 9.37 | 20.0 | Averaged | |
| 1,2,3-Trichloropropane | 0.261 | 0.270 | 0.270 | 0.010 | 3.19 | 20.0 | Averaged | |
| trans-1,4-Dichloro-2-butene | 50.0 | 48.4 | 4.23 | 0.010 | -3.252 | 20.0 | Wt Linear | |
| p-Chlorotoluene | 1.78 | 1.93 | 1.93 | 0.010 | 8.31 | 20.0 | Averaged | |
| tert-Butylbenzene | 0.521 | 0.552 | 0.552 | 0.010 | 5.92 | 20.0 | Averaged | |
| Pentachloroethane | 50.0 | 51.9 | 1.96 | 0.010 | 3.80 | 20.0 | Wt Linear | |
| 1,2,4-Trimethylbenzene | 2.11 | 2.31 | 2.31 | 0.010 | 9.11 | 20.0 | Averaged | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 23240627_2324062701.D

## Volatiles by EPA 8260D

**Instrument ID** ms23.i
**Lab File ID** 2324062701.D
**Analysis Type** WATER
**Lab Sample ID** 1800
**Injection Date** 27-JUN-2024 0844
**ICAL Date(s)** 25-JUN-2024, 25-JUN-2024
**ICAL Times** 11:40, 13:39
**Quant Type** ISTD

| Compound | RRF / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | 2.48 | 2.66 | 2.66 | 0.010 | 7.23 | 20.0 | Averaged | |
| p-Isopropyltoluene | 0.598 | 0.666 | 0.666 | 0.010 | 11.3 | 20.0 | Averaged | |
| 1,3-Dichlorobenzene | 1.31 | 1.41 | 1.41 | 0.010 | 7.09 | 20.0 | Averaged | |
| 1,4-Dichlorobenzene | 1.35 | 1.43 | 1.43 | 0.010 | 6.40 | 20.0 | Averaged | |
| Benzyl Chloride | 50.0 | 54.2 | 2.83 | 0.010 | 8.46 | 20.0 | Wt Linear | |
| n-Butylbenzene | 0.554 | 0.600 | 0.600 | 0.010 | 8.37 | 20.0 | Averaged | |
| Hexachloroethane | 50.0 | 49.1 | 2.16 | 0.010 | -1.878 | 20.0 | Wt Linear | |
| 1,2-Dichlorobenzene | 1.27 | 1.37 | 1.37 | 0.010 | 7.10 | 20.0 | Averaged | |
| 1,2-Dibromo-3-chloropropane | 0.170 | 0.178 | 0.178 | 0.010 | 4.58 | 20.0 | Averaged | |
| Nitrobenzene | 500 | 433 | 15.6 | 0.000 | -13.376 | 20.0 | Quadratic | |
| Hexachlorobutadiene | 0.438 | 0.453 | 0.453 | 0.000 | 3.36 | 20.0 | Averaged | |
| 120 1,3-Dichloropropene, Total | 100 | 101 | 0.928 | 0.010 | 0.697 | 20.0 | Wt Linear | |
| 1,2,4-Trichlorobenzene | 0.882 | 0.968 | 0.968 | 0.010 | 9.71 | 20.0 | Averaged | |
| 121 Total Xylenes | 1.07 | 1.16 | 1.16 | 0.010 | 9.05 | 20.0 | Averaged | |
| Naphthalene | 50.0 | 49.7 | 0.406 | 0.010 | -0.526 | 20.0 | Wt Linear | |
| 1,2,3-Trichlorobenzene | 0.873 | 0.953 | 0.953 | 0.010 | 9.23 | 20.0 | Averaged | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 23240627_2324062727.D

## Volatiles by EPA 8260D

**Sample Matrix** LIQUID
**Lab Smp Id** 1801
**Data Type** MS DATA
**File ID** 2324062727.D
**Fraction** VOA
**SampleType** ENDCCV
**Inj Date** 27-JUN-2024 1948

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 50.0 | 42.9 | 85.8 | 50-150 | |
| Chloromethane | 50.0 | 41.6 | 83.2 | 50-150 | |
| Vinyl Chloride | 50.0 | 44.8 | 89.6 | 50-150 | |
| Bromomethane | 50.0 | 47.1 | 94.3 | 50-150 | |
| Chloroethane | 50.0 | 43.7 | 87.4 | 50-150 | |
| Pentane | 50.0 | 22.5 | 45.1 | 50-150 | * |
| Trichlorofluoromethane | 50.0 | 45.9 | 91.8 | 50-150 | |
| Dichlorofluoromethane | 50.0 | 46.2 | 92.5 | 50-150 | |
| Ethyl Ether | 50.0 | 47.0 | 94.0 | 50-150 | |
| 1,1-Dichloroethene | 50.0 | 42.0 | 83.9 | 50-150 | |
| Freon 113 | 50.0 | 31.8 | 63.7 | 50-150 | |
| Carbon Disulfide | 50.0 | 43.1 | 86.2 | 50-150 | |
| Iodomethane | 50.0 | 44.9 | 89.8 | 50-150 | |
| Acrolein | 250 | 232 | 92.9 | 50-150 | |
| Isopropyl Alcohol | 250 | 215 | 86.1 | 50-150 | |
| 3-Chloro-1-propene | 50.0 | 43.1 | 86.2 | 50-150 | |
| Methylene Chloride | 50.0 | 47.6 | 95.1 | 50-150 | |
| Acetone | 250 | 235 | 94.0 | 50-150 | |
| Methyl acetate | 50.0 | 40.9 | 81.7 | 50-150 | |
| trans-1,2-Dichloroethene | 50.0 | 45.4 | 90.8 | 50-150 | |
| Hexane | 50.0 | 30.2 | 60.5 | 50-150 | |
| Methyl t-Butyl Ether | 50.0 | 48.8 | 97.6 | 50-150 | |
| tert.- Butyl Alcohol | 250 | 229 | 91.6 | 50-150 | |
| Acetonitrile | 250 | 233 | 93.2 | 50-150 | |
| Diisopropyl ether | 50.0 | 47.3 | 94.6 | 50-150 | |
| Chloroprene | 50.0 | 30.6 | 61.2 | 50-150 | |
| 1,1-Dichloroethane | 50.0 | 42.9 | 85.7 | 50-150 | |
| Acrylonitrile | 250 | 220 | 87.9 | 50-150 | |
| n-Propanol | 500 | 490 | 98.1 | 50-150 | |
| Ethyl tert-butyl ether | 50.0 | 44.3 | 88.6 | 50-150 | |
| Vinyl acetate | 50.0 | 44.7 | 89.4 | 50-150 | |
| cis-1,2-Dichloroethene | 50.0 | 47.1 | 94.1 | 50-150 | |
| 2,2-Dichloropropane | 50.0 | 39.6 | 79.2 | 50-150 | |
| Bromochloromethane | 50.0 | 49.3 | 98.7 | 50-150 | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 23240627_2324062727.D

## Volatiles by EPA 8260D

**Sample Matrix** LIQUID
**Lab Smp Id** 1801
**Data Type** MS DATA
**File ID** 2324062727.D
**Fraction** VOA
**SampleType** ENDCCV
**Inj Date** 27-JUN-2024 1948

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| Cyclohexane | 50.0 | 31.4 | 62.8 | 50-150 | |
| Chloroform | 50.0 | 45.9 | 91.9 | 50-150 | |
| Ethyl acetate | 50.0 | 47.1 | 94.3 | 50-150 | |
| Methyl acrylate | 50.0 | 43.7 | 87.4 | 50-150 | |
| Carbon Tetrachloride | 50.0 | 36.7 | 73.4 | 50-150 | |
| Tetrahydrofuran | 250 | 234 | 93.5 | 50-150 | |
| 1,1,1-Trichloroethane | 50.0 | 43.3 | 86.6 | 50-150 | |
| 2-Butanone | 250 | 231 | 92.3 | 50-150 | |
| 1,1-Dichloropropene | 50.0 | 40.6 | 81.2 | 50-150 | |
| 1-Chlorobutane | 50.0 | 39.3 | 78.6 | 50-150 | |
| Heptane | 50.0 | 21.9 | 43.9 | 50-150 | * |
| Benzene | 50.0 | 45.7 | 91.4 | 50-150 | |
| Propionitrile | 250 | 217 | 86.8 | 50-150 | |
| Methacrylonitrile | 50.0 | 46.8 | 93.5 | 50-150 | |
| tert-amyl methyl E | 50.0 | 44.8 | 89.6 | 50-150 | |
| Isobutyl alcohol | 500 | 429 | 85.9 | 50-150 | |
| 1,2-Dichloroethane | 50.0 | 47.4 | 94.7 | 50-150 | |
| tert-Amyl Alcohol | 250 | 226 | 90.2 | 50-150 | |
| Diisobutylene | 50.0 | 23.2 | 46.4 | 50-150 | * |
| Trichloroethene | 50.0 | 43.1 | 86.2 | 50-150 | |
| Methyl cyclohexane | 50.0 | 27.2 | 54.3 | 50-150 | |
| tert-Amyl Ethylether | 50.0 | 48.5 | 96.9 | 50-150 | |
| Dibromomethane | 50.0 | 48.8 | 97.6 | 50-150 | |
| 1,2-Dichloropropane | 50.0 | 47.6 | 95.3 | 50-150 | |
| Bromodichloromethane | 50.0 | 48.8 | 97.5 | 50-150 | |
| Methyl methacrylate | 50.0 | 42.6 | 85.1 | 50-150 | |
| 1,4-Dioxane | 1250 | 0.000 | | 50-150 | * |
| 2-Chloroethylvinyl ether | 50.0 | 41.4 | 82.8 | 50-150 | |
| cis-1,3-Dichloropropene | 50.0 | 42.9 | 85.8 | 50-150 | |
| Octane | 50.0 | 23.4 | 46.8 | 50-150 | * |
| Toluene | 50.0 | 43.9 | 87.8 | 50-150 | |
| Chloroacetonitrile | 250 | 224 | 89.6 | 50-150 | |
| 2-Nitropropane | 250 | 215 | 86.0 | 50-150 | |
| 1,1-Dichloro-2-pro | 250 | 222 | 88.8 | 50-150 | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 23240627_2324062727.D

## Volatiles by EPA 8260D

**Sample Matrix** LIQUID
**Lab Smp Id** 1801
**Data Type** MS DATA
**File ID** 2324062727.D
**Fraction** VOA
**SampleType** ENDCCV
**Inj Date** 27-JUN-2024 1948

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone(MIBK) | 250 | 218 | 87.1 | 50-150 | |
| Tetrachloroethene | 50.0 | 39.6 | 79.2 | 50-150 | |
| trans-1,3-Dichloropropene | 50.0 | 43.9 | 87.7 | 50-150 | |
| Ethyl methacrylate | 50.0 | 43.9 | 87.7 | 50-150 | |
| 1,1,2-Trichloroethane | 50.0 | 48.5 | 97.0 | 50-150 | |
| Chlorodibromomethane | 50.0 | 44.1 | 88.3 | 50-150 | |
| 1,2-Dibromoethane | 50.0 | 47.5 | 94.9 | 50-150 | |
| 2-Hexanone | 250 | 214 | 85.4 | 50-150 | |
| 1-Chlorohexane | 50.0 | 31.3 | 62.7 | 50-150 | |
| 1,3-Dichloropropane | 50.0 | 48.9 | 97.8 | 50-150 | |
| Chlorobenzene | 50.0 | 46.1 | 92.3 | 50-150 | |
| Ethylbenzene | 50.0 | 41.7 | 83.5 | 50-150 | |
| 1,1,1,2-Tetrachloroethane | 50.0 | 48.1 | 96.2 | 50-150 | |
| mp-Xylene | 100 | 84.6 | 84.6 | 50-150 | |
| o-Xylene | 50.0 | 44.9 | 89.7 | 50-150 | |
| Styrene | 50.0 | 44.5 | 89.0 | 50-150 | |
| Bromoform | 50.0 | 45.8 | 91.6 | 50-150 | |
| Isopropylbenzene | 50.0 | 37.5 | 75.0 | 50-150 | |
| Bromobenzene | 50.0 | 46.7 | 93.4 | 50-150 | |
| n-Propylbenzene | 50.0 | 37.1 | 74.3 | 50-150 | |
| 1,1,2,2-Tetrachloroethane | 50.0 | 50.2 | 100 | 50-150 | |
| o-Chlorotoluene | 50.0 | 43.8 | 87.6 | 50-150 | |
| 1,2-Dichloroethene, Total | 100 | 92.5 | 92.5 | 50-150 | |
| 1,3,5-Trimethylbenzene | 50.0 | 41.3 | 82.5 | 50-150 | |
| 1,2,3-Trichloropropane | 50.0 | 49.3 | 98.5 | 50-150 | |
| trans-1,4-Dichloro-2-butene | 50.0 | 42.5 | 84.9 | 50-150 | |
| p-Chlorotoluene | 50.0 | 44.8 | 89.6 | 50-150 | |
| tert-Butylbenzene | 50.0 | 37.9 | 75.8 | 50-150 | |
| Pentachloroethane | 50.0 | 40.0 | 79.9 | 50-150 | |
| 1,2,4-Trimethylbenzene | 50.0 | 43.4 | 86.9 | 50-150 | |
| sec-Butylbenzene | 50.0 | 35.5 | 71.0 | 50-150 | |
| p-Isopropyltoluene | 50.0 | 37.2 | 74.4 | 50-150 | |
| 1,3-Dichlorobenzene | 50.0 | 45.1 | 90.1 | 50-150 | |
| 1,4-Dichlorobenzene | 50.0 | 44.9 | 89.7 | 50-150 | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 23240627_2324062727.D

## Volatiles by EPA 8260D

**Sample Matrix** LIQUID
**Lab Smp Id** 1801
**Data Type** MS DATA
**File ID** 2324062727.D
**Fraction** VOA
**SampleType** ENDCCV
**Inj Date** 27-JUN-2024 1948

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| Benzyl Chloride | 50.0 | 37.2 | 74.3 | 50-150 | |
| n-Butylbenzene | 50.0 | 34.7 | 69.5 | 50-150 | |
| Hexachloroethane | 50.0 | 37.4 | 74.9 | 50-150 | |
| 1,2-Dichlorobenzene | 50.0 | 47.2 | 94.4 | 50-150 | |
| 1,2-Dibromo-3-chloropropane | 50.0 | 48.3 | 96.5 | 50-150 | |
| Nitrobenzene | 500 | 417 | 83.4 | 50-150 | |
| Hexachlorobutadiene | 50.0 | 32.1 | 64.1 | 50-150 | |
| 1,2,4-Trichlorobenzene | 50.0 | 44.6 | 89.2 | 50-150 | |
| Naphthalene | 50.0 | 45.1 | 90.2 | 50-150 | |
| 1,3-Dichloropropene, Total | 100 | 86.8 | 86.8 | 50-150 | |
| 1,2,3-Trichlorobenzene | 50.0 | 46.1 | 92.2 | 50-150 | |
| 121 TOTAL XYLENES | 150 | 129 | 86.3 | 50-150 | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

## 8260D

**RunID** 25240625_2524062532.D

**Sample Matrix** LIQUID
**Lab Smp Id** 1801
**Data Type** MS DATA
**File ID** 2524062532.D
**Fraction** VOA
**SampleType** ENDCCV
**Inj Date** 25-JUN-2024 2054

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 50.0 | 45.8 | 91.7 | 50-150 | |
| Chloromethane | 50.0 | 47.9 | 95.8 | 50-150 | |
| Vinyl Chloride | 50.0 | 46.9 | 93.7 | 50-150 | |
| Bromomethane | 50.0 | 53.2 | 106 | 50-150 | |
| Chloroethane | 50.0 | 46.3 | 92.6 | 50-150 | |
| Pentane | 50.0 | 40.0 | 79.9 | 50-150 | |
| Trichlorofluoromethane | 50.0 | 45.7 | 91.3 | 50-150 | |
| Dichlorofluoromethane | 50.0 | 52.8 | 106 | 50-150 | |
| Ethyl Ether | 50.0 | 54.6 | 109 | 50-150 | |
| 1,1-Dichloroethene | 50.0 | 51.0 | 102 | 50-150 | |
| Freon 113 | 50.0 | 48.1 | 96.2 | 50-150 | |
| Carbon Disulfide | 50.0 | 51.0 | 102 | 50-150 | |
| Iodomethane | 50.0 | 47.1 | 94.3 | 50-150 | |
| Acrolein | 250 | 254 | 102 | 50-150 | |
| Isopropyl Alcohol | 250 | 251 | 100 | 50-150 | |
| 3-Chloro-1-propene | 50.0 | 50.4 | 101 | 50-150 | |
| Methylene Chloride | 50.0 | 53.9 | 108 | 50-150 | |
| Acetone | 250 | 249 | 99.7 | 50-150 | |
| Methyl acetate | 50.0 | 54.7 | 109 | 50-150 | |
| trans-1,2-Dichloroethene | 50.0 | 53.1 | 106 | 50-150 | |
| Hexane | 50.0 | 43.8 | 87.6 | 50-150 | |
| Methyl t-Butyl Ether | 50.0 | 50.6 | 101 | 50-150 | |
| tert.- Butyl Alcohol | 250 | 274 | 110 | 50-150 | |
| Acetonitrile | 250 | 278 | 111 | 50-150 | |
| Diisopropyl ether | 50.0 | 55.6 | 111 | 50-150 | |
| Chloroprene | 50.0 | 53.9 | 108 | 50-150 | |
| 1,1-Dichloroethane | 50.0 | 53.6 | 107 | 50-150 | |
| Acrylonitrile | 250 | 283 | 113 | 50-150 | |
| n-Propanol | 500 | 513 | 102 | 50-150 | |
| Ethyl tert-butyl ether | 50.0 | 56.5 | 113 | 50-150 | |
| Vinyl acetate | 50.0 | 46.7 | 93.4 | 50-150 | |
| cis-1,2-Dichloroethene | 50.0 | 53.7 | 107 | 50-150 | |
| 2,2-Dichloropropane | 50.0 | 42.1 | 84.2 | 50-150 | |
| Bromochloromethane | 50.0 | 56.9 | 114 | 50-150 | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240625_2524062532.D

## 8260D

**Sample Matrix** LIQUID
**Lab Smp Id** 1801
**Data Type** MS DATA
**File ID** 2524062532.D
**Fraction** VOA
**SampleType** ENDCCV
**Inj Date** 25-JUN-2024 2054

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| Cyclohexane | 50.0 | 49.3 | 98.6 | 50-150 | |
| Chloroform | 50.0 | 54.7 | 109 | 50-150 | |
| Ethyl acetate | 50.0 | 49.9 | 99.8 | 50-150 | |
| Methyl acrylate | 50.0 | 55.4 | 111 | 50-150 | |
| Carbon Tetrachloride | 50.0 | 47.3 | 94.7 | 50-150 | |
| Tetrahydrofuran | 250 | 270 | 108 | 50-150 | |
| 1,1,1-Trichloroethane | 50.0 | 53.4 | 107 | 50-150 | |
| 2-Butanone | 250 | 267 | 107 | 50-150 | |
| 1,1-Dichloropropene | 50.0 | 51.0 | 102 | 50-150 | |
| 1-Chlorobutane | 50.0 | 49.9 | 99.8 | 50-150 | |
| Heptane | 50.0 | 39.4 | 78.7 | 50-150 | |
| Benzene | 50.0 | 51.1 | 102 | 50-150 | |
| Propionitrile | 250 | 283 | 113 | 50-150 | |
| Methacrylonitrile | 50.0 | 55.2 | 110 | 50-150 | |
| tert-amyl methyl E | 50.0 | 57.1 | 114 | 50-150 | |
| Isobutyl alcohol | 500 | 561 | 112 | 50-150 | |
| 1,2-Dichloroethane | 50.0 | 53.0 | 106 | 50-150 | |
| tert-Amyl Alcohol | 250 | 262 | 105 | 50-150 | |
| Diisobutylene | 50.0 | 44.4 | 88.7 | 50-150 | |
| Trichloroethene | 50.0 | 50.4 | 101 | 50-150 | |
| Methyl cyclohexane | 50.0 | 48.8 | 97.6 | 50-150 | |
| tert-Amyl Ethylether | 50.0 | 50.1 | 100 | 50-150 | |
| Dibromomethane | 50.0 | 55.5 | 111 | 50-150 | |
| 1,2-Dichloropropane | 50.0 | 54.7 | 109 | 50-150 | |
| Bromodichloromethane | 50.0 | 49.5 | 98.9 | 50-150 | |
| Methyl methacrylate | 50.0 | 57.5 | 115 | 50-150 | |
| 1,4-Dioxane | 1250 | 0.000 | | 50-150 | * |
| 2-Chloroethylvinyl ether | 50.0 | 47.8 | 95.6 | 50-150 | |
| cis-1,3-Dichloropropene | 50.0 | 50.9 | 102 | 50-150 | |
| Octane | 50.0 | 42.0 | 84.0 | 50-150 | |
| Toluene | 50.0 | 51.8 | 104 | 50-150 | |
| Chloroacetonitrile | 250 | 281 | 112 | 50-150 | |
| 2-Nitropropane | 250 | 256 | 102 | 50-150 | |
| 1,1-Dichloro-2-pro | 250 | 256 | 102 | 50-150 | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

## 8260D

**RunID** 25240625_2524062532.D

**Sample Matrix** LIQUID
**Lab Smp Id** 1801
**Data Type** MS DATA
**File ID** 2524062532.D
**Fraction** VOA
**SampleType** ENDCCV
**Inj Date** 25-JUN-2024 2054

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone(MIBK) | 250 | 281 | 112 | 50-150 | |
| Tetrachloroethene | 50.0 | 56.5 | 113 | 50-150 | |
| trans-1,3-Dichloropropene | 50.0 | 50.6 | 101 | 50-150 | |
| Ethyl methacrylate | 50.0 | 53.6 | 107 | 50-150 | |
| 1,1,2-Trichloroethane | 50.0 | 56.9 | 114 | 50-150 | |
| Chlorodibromomethane | 50.0 | 52.1 | 104 | 50-150 | |
| 1,2-Dibromoethane | 50.0 | 53.2 | 106 | 50-150 | |
| 2-Hexanone | 250 | 274 | 110 | 50-150 | |
| 1-Chlorohexane | 50.0 | 51.6 | 103 | 50-150 | |
| 1,3-Dichloropropane | 50.0 | 58.3 | 117 | 50-150 | |
| Chlorobenzene | 50.0 | 56.5 | 113 | 50-150 | |
| Ethylbenzene | 50.0 | 50.6 | 101 | 50-150 | |
| 1,1,1,2-Tetrachloroethane | 50.0 | 52.2 | 104 | 50-150 | |
| mp-Xylene | 100 | 102 | 102 | 50-150 | |
| o-Xylene | 50.0 | 51.3 | 103 | 50-150 | |
| Styrene | 50.0 | 52.2 | 104 | 50-150 | |
| Bromoform | 50.0 | 50.1 | 100 | 50-150 | |
| Isopropylbenzene | 50.0 | 51.0 | 102 | 50-150 | |
| Bromobenzene | 50.0 | 56.0 | 112 | 50-150 | |
| n-Propylbenzene | 50.0 | 53.9 | 108 | 50-150 | |
| 1,1,2,2-Tetrachloroethane | 50.0 | 58.6 | 117 | 50-150 | |
| o-Chlorotoluene | 50.0 | 56.1 | 112 | 50-150 | |
| 1,2-Dichloroethene, Total | 100 | 107 | 107 | 50-150 | |
| 1,3,5-Trimethylbenzene | 50.0 | 54.4 | 109 | 50-150 | |
| 1,2,3-Trichloropropane | 50.0 | 56.6 | 113 | 50-150 | |
| trans-1,4-Dichloro-2-butene | 50.0 | 48.2 | 96.4 | 50-150 | |
| p-Chlorotoluene | 50.0 | 56.0 | 112 | 50-150 | |
| tert-Butylbenzene | 50.0 | 55.8 | 112 | 50-150 | |
| Pentachloroethane | 50.0 | 46.2 | 92.4 | 50-150 | |
| 1,2,4-Trimethylbenzene | 50.0 | 51.6 | 103 | 50-150 | |
| sec-Butylbenzene | 50.0 | 55.7 | 111 | 50-150 | |
| p-Isopropyltoluene | 50.0 | 54.1 | 108 | 50-150 | |
| 1,3-Dichlorobenzene | 50.0 | 55.9 | 112 | 50-150 | |
| 1,4-Dichlorobenzene | 50.0 | 54.6 | 109 | 50-150 | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240625_2524062532.D

## 8260D

**Sample Matrix** LIQUID
**Lab Smp Id** 1801
**Data Type** MS DATA
**File ID** 2524062532.D
**Fraction** VOA
**SampleType** ENDCCV
**Inj Date** 25-JUN-2024 2054

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| Benzyl Chloride | 50.0 | 34.2 | 68.3 | 50-150 | |
| n-Butylbenzene | 50.0 | 50.8 | 102 | 50-150 | |
| Hexachloroethane | 50.0 | 48.1 | 96.3 | 50-150 | |
| 1,2-Dichlorobenzene | 50.0 | 57.3 | 115 | 50-150 | |
| 1,2-Dibromo-3-chloropropane | 50.0 | 50.8 | 102 | 50-150 | |
| Nitrobenzene | 500 | 476 | 95.2 | 50-150 | |
| Hexachlorobutadiene | 50.0 | 45.4 | 90.8 | 50-150 | |
| 1,2,4-Trichlorobenzene | 50.0 | 55.8 | 112 | 50-150 | |
| Naphthalene | 50.0 | 50.7 | 101 | 50-150 | |
| 1,3-Dichloropropene, Total | 100 | 102 | 102 | 50-150 | |
| 1,2,3-Trichlorobenzene | 50.0 | 49.2 | 98.4 | 50-150 | |
| 121 TOTAL XYLENES | 150 | 154 | 102 | 50-150 | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240627A_2524062751.D

## Volatiles by EPA 8260D

**Instrument ID** ms25.i
**Lab File ID** 2524062751.D
**Analysis Type** WATER
**Lab Sample ID** 1800

**Injection Date** 27-JUN-2024 1908
**ICAL Date(s)** 25-JUN-2024, 25-JUN-2024
**ICAL Times** 11:03, 13:05
**Quant Type** ISTD

| Compound | RRF / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.332 | 0.299 | 0.299 | 0.010 | -10.060 | 20.0 | Averaged | |
| Chloromethane | 50.0 | 50.8 | 3.39 | 0.100 | 1.69 | 20.0 | Wt Linear | |
| Vinyl Chloride | 0.375 | 0.357 | 0.357 | 0.010 | -4.823 | 20.0 | Averaged | |
| Bromomethane | 50.0 | 54.0 | 5.16 | 0.010 | 8.06 | 20.0 | Wt Linear | |
| Chloroethane | 50.0 | 50.1 | 3.93 | 0.010 | 0.296 | 20.0 | Wt Linear | |
| Pentane | 50.0 | 40.9 | 5.20 | 0.010 | -18.206 | 20.0 | Wt Linear | |
| Trichlorofluoromethane | 0.514 | 0.464 | 0.464 | 0.010 | -9.641 | 20.0 | Averaged | |
| Dichlorofluoromethane | 0.476 | 0.505 | 0.505 | 0.010 | 6.25 | 20.0 | Averaged | |
| Ethyl Ether | 0.145 | 0.156 | 0.156 | 0.010 | 7.92 | 20.0 | Averaged | |
| 1,1-Dichloroethene | 0.289 | 0.291 | 0.291 | 0.010 | 0.730 | 20.0 | Averaged | |
| Carbon Disulfide | 0.623 | 0.651 | 0.651 | 0.010 | 4.52 | 20.0 | Averaged | |
| Freon 113 | 0.203 | 0.187 | 0.187 | 0.010 | -7.756 | 20.0 | Averaged | |
| Iodomethane | 50.0 | 52.3 | 8.55 | 0.010 | 4.50 | 20.0 | Wt Linear | |
| Acrolein | 0.047 | 0.049 | 0.049 | 0.000 | 5.62 | 20.0 | Averaged | |
| 3-Chloro-1-propene | 50.0 | 50.6 | 3.93 | 0.010 | 1.22 | 20.0 | Wt Linear | |
| Isopropyl Alcohol | 250 | 237 | 69.3 | 0.000 | -5.181 | 20.0 | Wt Linear | |
| Methylene Chloride | 0.236 | 0.250 | 0.250 | 0.010 | 6.20 | 20.0 | Averaged | |
| Acetone | 0.026 | 0.025 | 0.025 | 0.000 | -3.257 | 20.0 | Averaged | |
| Methyl acetate | 50.0 | 49.7 | 18.7 | 0.005 | -0.552 | 20.0 | Wt Linear | |
| trans-1,2-Dichloroethene | 0.283 | 0.305 | 0.305 | 0.010 | 7.75 | 20.0 | Averaged | |
| Hexane | 50.0 | 44.9 | 2.37 | 0.010 | -10.267 | 20.0 | Wt Linear | |
| Methyl t-Butyl Ether | 50.0 | 50.0 | 1.38 | 0.010 | 0.078 | 20.0 | Wt Linear | |
| tert.- Butyl Alcohol | 0.026 | 0.027 | 0.027 | 0.000 | 2.63 | 20.0 | Averaged | |
| Acetonitrile | 0.029 | 0.030 | 0.030 | 0.000 | 2.55 | 20.0 | Averaged | |
| Diisopropyl ether | 0.627 | 0.695 | 0.695 | 0.010 | 10.8 | 20.0 | Averaged | |
| Chloroprene | 0.318 | 0.341 | 0.341 | 0.010 | 7.26 | 20.0 | Averaged | |
| 1,1-Dichloroethane | 0.385 | 0.426 | 0.426 | 0.100 | 10.7 | 20.0 | Averaged | |
| Acrylonitrile | 0.100 | 0.106 | 0.106 | 0.000 | 5.75 | 20.0 | Averaged | |
| n-Propanol | 0.012 | 0.012 | 0.012 | 0.000 | -0.698 | 20.0 | Averaged | |
| Ethyl tert-butyl ether | 0.666 | 0.743 | 0.743 | 0.010 | 11.5 | 20.0 | Averaged | |
| Vinyl Acetate | 50.0 | 48.7 | 15.6 | 0.010 | -2.535 | 20.0 | Wt Linear | |
| cis-1,2-Dichloroethene | 0.287 | 0.308 | 0.308 | 0.010 | 7.34 | 20.0 | Averaged | |
| 2,2-Dichloropropane | 0.307 | 0.346 | 0.346 | 0.010 | 12.8 | 20.0 | Averaged | |
| 100 1,2-Dichloroethene, Total | 0.285 | 0.306 | 0.306 | 0.010 | 7.54 | 20.0 | Averaged | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240627A_2524062751.D

## Volatiles by EPA 8260D

**Instrument ID** ms25.i
**Lab File ID** 2524062751.D
**Analysis Type** WATER
**Lab Sample ID** 1800

**Injection Date** 27-JUN-2024 1908
**ICAL Date(s)** 25-JUN-2024, 25-JUN-2024
**ICAL Times** 11:03, 13:05
**Quant Type** ISTD

| Compound | RRF / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 0.124 | 0.135 | 0.135 | 0.010 | 9.53 | 20.0 | Averaged | |
| Cyclohexane | 0.344 | 0.308 | 0.308 | 0.010 | -10.505 | 20.0 | Averaged | |
| Chloroform | 0.416 | 0.446 | 0.446 | 0.010 | 7.18 | 20.0 | Averaged | |
| Ethyl Acetate | 50.0 | 48.2 | 4.16 | 0.010 | -3.573 | 20.0 | Wt Linear | |
| Methyl acrylate | 0.231 | 0.241 | 0.241 | 0.010 | 4.46 | 20.0 | Averaged | |
| Carbon Tetrachloride | 50.0 | 44.8 | 3.66 | 0.010 | -10.450 | 20.0 | Wt Linear | |
| Tetrahydrofuran | 0.071 | 0.071 | 0.071 | 0.000 | 0.522 | 20.0 | Averaged | |
| 41 Dibromofluoromethane | 0.237 | 0.220 | 0.220 | 0.010 | -6.945 | 20.0 | Averaged | |
| 1,1,1-Trichloroethane | 0.324 | 0.343 | 0.343 | 0.010 | 6.02 | 20.0 | Averaged | |
| 2-Butanone | 0.034 | 0.035 | 0.035 | 0.000 | 3.40 | 20.0 | Averaged | |
| 1,1-Dichloropropene | 0.306 | 0.315 | 0.315 | 0.010 | 2.91 | 20.0 | Averaged | |
| 1-Chlorobutane | 0.197 | 0.189 | 0.189 | 0.010 | -3.742 | 20.0 | Averaged | |
| Heptane | 0.178 | 0.160 | 0.160 | 0.000 | -10.218 | 20.0 | Averaged | |
| Propionitrile | 0.038 | 0.040 | 0.040 | 0.000 | 5.27 | 20.0 | Averaged | |
| Benzene | 0.941 | 0.970 | 0.970 | 0.010 | 3.08 | 20.0 | Averaged | |
| Methacrylonitrile | 0.114 | 0.118 | 0.118 | 0.010 | 4.06 | 20.0 | Averaged | |
| tert-Amyl methyl ether | 0.643 | 0.694 | 0.694 | 0.010 | 7.93 | 20.0 | Averaged | |
| 51 1,2-Dichloroethane-d4 | 0.250 | 0.237 | 0.237 | 0.010 | -5.036 | 20.0 | Averaged | |
| Isobutyl alcohol | 500 | 499 | 173 | 0.000 | -0.150 | 20.0 | Wt Linear | |
| 1,2-Dichloroethane | 0.296 | 0.309 | 0.309 | 0.010 | 4.46 | 20.0 | Averaged | |
| tert-Amyl Alcohol | 0.020 | 0.020 | 0.020 | 0.002 | 0.413 | 20.0 | Averaged | |
| Diisobutylene | 50.0 | 40.4 | 2.12 | 0.010 | -19.286 | 20.0 | Wt Linear | |
| Trichloroethene | 0.238 | 0.245 | 0.245 | 0.010 | 2.72 | 20.0 | Averaged | |
| Methyl cyclohexane | 0.973 | 0.848 | 0.848 | 0.005 | -12.807 | 20.0 | Averaged | |
| tert-Amyl Ethylether | 50.0 | 50.6 | 1.76 | 0.010 | 1.28 | 20.0 | Wt Linear | |
| Dibromomethane | 0.151 | 0.161 | 0.161 | 0.010 | 7.23 | 20.0 | Averaged | |
| 1,2-Dichloropropane | 0.226 | 0.244 | 0.244 | 0.010 | 7.61 | 20.0 | Averaged | |
| Bromodichloromethane | 50.0 | 47.7 | 3.33 | 0.010 | -4.559 | 20.0 | Wt Linear | |
| Methyl methacrylate | 0.179 | 0.193 | 0.193 | 0.010 | 7.90 | 20.0 | Averaged | |
| 2-Chloroethylvinyl ether | 50.0 | 48.4 | 6.24 | 0.010 | -3.195 | 20.0 | Wt Linear | |
| cis-1,3-Dichloropropene | 50.0 | 50.7 | 0.972 | 0.010 | 1.32 | 20.0 | Wt Linear | |
| Octane | 0.369 | 0.388 | 0.388 | 0.010 | 5.18 | 20.0 | Averaged | |
| 68 Toluene-d8 | 2.38 | 2.19 | 2.19 | 0.010 | -7.634 | 20.0 | Averaged | |
| Toluene | 1.51 | 1.49 | 1.49 | 0.010 | -0.982 | 20.0 | Averaged | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240627A_2524062751.D

## Volatiles by EPA 8260D

**Instrument ID** ms25.i
**Lab File ID** 2524062751.D
**Analysis Type** WATER
**Lab Sample ID** 1800

**Injection Date** 27-JUN-2024 1908
**ICAL Date(s)** 25-JUN-2024, 25-JUN-2024
**ICAL Times** 11:03, 13:05
**Quant Type** ISTD

| Compound | RRF / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| Chloroacetonitrile | 0.038 | 0.039 | 0.039 | 0.000 | 3.22 | 20.0 | Averaged | |
| 2-Nitropropane | 250 | 233 | 6.51 | 0.005 | -6.925 | 20.0 | Wt Linear | |
| 1,1-Dichloro-2-Propanone | 250 | 228 | 68.7 | 0.001 | -8.749 | 20.0 | Wt Linear | |
| 4-Methyl-2-Pentanone(MIBK) | 250 | 256 | 1.64 | 0.010 | 2.54 | 20.0 | Wt Linear | |
| trans-1,3-Dichloropropene | 50.0 | 49.0 | 1.09 | 0.010 | -2.045 | 20.0 | Wt Linear | |
| Tetrachloroethene | 0.548 | 0.531 | 0.531 | 0.010 | -3.159 | 20.0 | Averaged | |
| Ethyl Methacrylate | 50.0 | 50.0 | 1.10 | 0.010 | 0.027 | 20.0 | Wt Linear | |
| 1,1,2-Trichloroethane | 0.463 | 0.490 | 0.490 | 0.010 | 6.04 | 20.0 | Averaged | |
| Chlorodibromomethane | 50.0 | 47.4 | 1.61 | 0.010 | -5.180 | 20.0 | Wt Linear | |
| 1,3-Dichloropropane | 0.914 | 0.986 | 0.986 | 0.010 | 7.86 | 20.0 | Averaged | |
| 1,2-Dibromoethane | 50.0 | 49.0 | 1.66 | 0.010 | -2.014 | 20.0 | Wt Linear | |
| 2-Hexanone | 250 | 254 | 2.42 | 0.010 | 1.47 | 20.0 | Wt Linear | |
| 1-Chlorohexane | 0.792 | 0.757 | 0.757 | 0.010 | -4.403 | 20.0 | Averaged | |
| Ethylbenzene | 50.0 | 47.9 | 1.16 | 0.010 | -4.281 | 20.0 | Wt Linear | |
| Chlorobenzene | 1.53 | 1.62 | 1.62 | 0.300 | 5.51 | 20.0 | Averaged | |
| 1,1,1,2-Tetrachloroethane | 50.0 | 48.3 | 1.79 | 0.010 | -3.440 | 20.0 | Wt Linear | |
| mp-Xylene | 100 | 96.3 | 0.975 | 0.010 | -3.717 | 20.0 | Wt Linear | |
| 120 1,3-Dichloropropene, Total | 100 | 100 | 1.03 | 0.010 | -0.360 | 20.0 | Wt Linear | |
| o-Xylene | 1.02 | 0.987 | 0.987 | 0.010 | -3.369 | 20.0 | Averaged | |
| Styrene | 50.0 | 51.5 | 0.547 | 0.010 | 3.02 | 20.0 | Wt Linear | |
| Bromoform | 50.0 | 47.2 | 2.11 | 0.100 | -5.506 | 20.0 | Wt Linear | |
| Isopropylbenzene | 50.0 | 50.5 | 0.401 | 0.010 | 0.944 | 20.0 | Wt Linear | |
| 92 4-Bromofluorobenzene | 0.830 | 0.794 | 0.794 | 0.010 | -4.317 | 20.0 | Averaged | |
| 121 Total Xylenes | 150 | 145 | 0.987 | 0.010 | -3.601 | 20.0 | Wt Linear | |
| n-Propylbenzene | 0.725 | 0.776 | 0.776 | 0.010 | 6.95 | 20.0 | Averaged | |
| Bromobenzene | 0.709 | 0.789 | 0.789 | 0.010 | 11.2 | 20.0 | Averaged | |
| 1,1,2,2-Tetrachloroethane | 0.705 | 0.801 | 0.801 | 0.300 | 13.7 | 20.0 | Averaged | |
| 1,3,5-Trimethylbenzene | 2.02 | 2.18 | 2.18 | 0.010 | 8.04 | 20.0 | Averaged | |
| o-Chlorotoluene | 1.91 | 2.12 | 2.12 | 0.010 | 11.1 | 20.0 | Averaged | |
| 1,2,3-Trichloropropane | 0.227 | 0.249 | 0.249 | 0.010 | 9.68 | 20.0 | Averaged | |
| trans-1,4-Dichloro-2-butene | 50.0 | 51.1 | 4.52 | 0.010 | 2.22 | 20.0 | Wt Linear | |
| p-Chlorotoluene | 1.73 | 1.96 | 1.96 | 0.010 | 13.1 | 20.0 | Averaged | |
| tert-Butylbenzene | 0.483 | 0.519 | 0.519 | 0.010 | 7.58 | 20.0 | Averaged | |
| Pentachloroethane | 50.0 | 51.0 | 2.02 | 0.010 | 1.96 | 20.0 | Wt Linear | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240627A_2524062751.D

## Volatiles by EPA 8260D

**Instrument ID** ms25.i
**Lab File ID** 2524062751.D
**Analysis Type** WATER
**Lab Sample ID** 1800

**Injection Date** 27-JUN-2024 1908
**ICAL Date(s)** 25-JUN-2024, 25-JUN-2024
**ICAL Times** 11:03, 13:05
**Quant Type** ISTD

| Compound | RRF / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 50.0 | 51.6 | 0.453 | 0.010 | 3.22 | 20.0 | Wt Linear | |
| sec-Butylbenzene | 2.49 | 2.66 | 2.66 | 0.010 | 6.46 | 20.0 | Averaged | |
| p-Isopropyltoluene | 0.571 | 0.610 | 0.610 | 0.010 | 6.76 | 20.0 | Averaged | |
| 1,3-Dichlorobenzene | 1.19 | 1.34 | 1.34 | 0.010 | 12.1 | 20.0 | Averaged | |
| 1,4-Dichlorobenzene | 1.25 | 1.37 | 1.37 | 0.010 | 9.82 | 20.0 | Averaged | |
| n-Butylbenzene | 0.534 | 0.559 | 0.559 | 0.010 | 4.69 | 20.0 | Averaged | |
| Benzyl Chloride | 50.0 | 53.1 | 3.15 | 0.010 | 6.17 | 20.0 | Wt Linear | |
| Hexachloroethane | 50.0 | 45.7 | 2.56 | 0.010 | -8.595 | 20.0 | Wt Linear | |
| 1,2-Dichlorobenzene | 1.14 | 1.29 | 1.29 | 0.010 | 13.0 | 20.0 | Averaged | |
| 1,2-Dibromo-3-chloropropane | 50.0 | 47.1 | 7.88 | 0.010 | -5.821 | 20.0 | Wt Linear | |
| Nitrobenzene | 500 | 459 | 24.9 | 0.000 | -8.139 | 20.0 | Quadratic | |
| Hexachlorobutadiene | 50.0 | 50.4 | 2.63 | 0.000 | 0.867 | 20.0 | Wt Linear | |
| 1,2,4-Trichlorobenzene | 0.754 | 0.869 | 0.869 | 0.010 | 15.2 | 20.0 | Averaged | |
| Naphthalene | 50.0 | 50.3 | 0.449 | 0.010 | 0.547 | 20.0 | Wt Linear | |
| 1,2,3-Trichlorobenzene | 50.0 | 50.0 | 1.18 | 0.010 | -0.086 | 20.0 | Wt Linear | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240627A_2524062779.D

## Volatiles by EPA 8260D

**Sample Matrix** LIQUID
**Lab Smp Id** 1801
**Data Type** MS DATA
**File ID** 2524062779.D
**Fraction** VOA
**SampleType** ENDCCV
**Inj Date** 28-JUN-2024 0522

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 50.0 | 33.4 | 66.8 | 50-150 | |
| Chloromethane | 50.0 | 46.9 | 93.8 | 50-150 | |
| Vinyl Chloride | 50.0 | 40.4 | 80.7 | 50-150 | |
| Bromomethane | 50.0 | 51.3 | 103 | 50-150 | |
| Chloroethane | 50.0 | 44.3 | 88.7 | 50-150 | |
| Pentane | 50.0 | 31.3 | 62.7 | 50-150 | |
| Trichlorofluoromethane | 50.0 | 35.7 | 71.3 | 50-150 | |
| Dichlorofluoromethane | 50.0 | 47.7 | 95.4 | 50-150 | |
| Ethyl Ether | 50.0 | 49.3 | 98.6 | 50-150 | |
| 1,1-Dichloroethene | 50.0 | 44.2 | 88.3 | 50-150 | |
| Freon 113 | 50.0 | 38.3 | 76.6 | 50-150 | |
| Carbon Disulfide | 50.0 | 43.8 | 87.6 | 50-150 | |
| Iodomethane | 50.0 | 44.9 | 89.9 | 50-150 | |
| Acrolein | 250 | 235 | 94.0 | 50-150 | |
| Isopropyl Alcohol | 250 | 235 | 94.1 | 50-150 | |
| 3-Chloro-1-propene | 50.0 | 46.1 | 92.1 | 50-150 | |
| Methylene Chloride | 50.0 | 48.3 | 96.6 | 50-150 | |
| Acetone | 250 | 237 | 94.9 | 50-150 | |
| Methyl acetate | 50.0 | 48.0 | 96.0 | 50-150 | |
| trans-1,2-Dichloroethene | 50.0 | 47.0 | 94.1 | 50-150 | |
| Hexane | 50.0 | 37.1 | 74.1 | 50-150 | |
| Methyl t-Butyl Ether | 50.0 | 46.3 | 92.7 | 50-150 | |
| tert.- Butyl Alcohol | 250 | 249 | 99.4 | 50-150 | |
| Acetonitrile | 250 | 265 | 106 | 50-150 | |
| Diisopropyl ether | 50.0 | 51.4 | 103 | 50-150 | |
| Chloroprene | 50.0 | 48.6 | 97.2 | 50-150 | |
| 1,1-Dichloroethane | 50.0 | 49.7 | 99.4 | 50-150 | |
| Acrylonitrile | 250 | 259 | 104 | 50-150 | |
| n-Propanol | 500 | 482 | 96.5 | 50-150 | |
| Ethyl tert-butyl ether | 50.0 | 51.6 | 103 | 50-150 | |
| Vinyl acetate | 50.0 | 42.5 | 85.0 | 50-150 | |
| cis-1,2-Dichloroethene | 50.0 | 49.9 | 99.9 | 50-150 | |
| 2,2-Dichloropropane | 50.0 | 43.0 | 85.9 | 50-150 | |
| Bromochloromethane | 50.0 | 50.8 | 102 | 50-150 | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240627A_2524062779.D

## Volatiles by EPA 8260D

**Sample Matrix** LIQUID
**Lab Smp Id** 1801
**Data Type** MS DATA
**File ID** 2524062779.D
**Fraction** VOA
**SampleType** ENDCCV
**Inj Date** 28-JUN-2024 0522

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| Cyclohexane | 50.0 | 39.0 | 78.0 | 50-150 | |
| Chloroform | 50.0 | 48.3 | 96.7 | 50-150 | |
| Ethyl acetate | 50.0 | 46.9 | 93.9 | 50-150 | |
| Methyl acrylate | 50.0 | 51.3 | 103 | 50-150 | |
| Carbon Tetrachloride | 50.0 | 37.7 | 75.5 | 50-150 | |
| Tetrahydrofuran | 250 | 255 | 102 | 50-150 | |
| 1,1,1-Trichloroethane | 50.0 | 46.8 | 93.7 | 50-150 | |
| 2-Butanone | 250 | 250 | 99.9 | 50-150 | |
| 1,1-Dichloropropene | 50.0 | 44.5 | 89.0 | 50-150 | |
| 1-Chlorobutane | 50.0 | 43.5 | 86.9 | 50-150 | |
| Heptane | 50.0 | 29.2 | 58.4 | 50-150 | |
| Benzene | 50.0 | 46.9 | 93.8 | 50-150 | |
| Propionitrile | 250 | 258 | 103 | 50-150 | |
| Methacrylonitrile | 50.0 | 51.3 | 103 | 50-150 | |
| tert-amyl methyl E | 50.0 | 50.4 | 101 | 50-150 | |
| Isobutyl alcohol | 500 | 624 | 125 | 50-150 | |
| 1,2-Dichloroethane | 50.0 | 48.9 | 97.8 | 50-150 | |
| tert-Amyl Alcohol | 250 | 245 | 98.1 | 50-150 | |
| Diisobutylene | 50.0 | 34.2 | 68.3 | 50-150 | |
| Trichloroethene | 50.0 | 46.3 | 92.7 | 50-150 | |
| Methyl cyclohexane | 50.0 | 36.1 | 72.3 | 50-150 | |
| tert-Amyl Ethylether | 50.0 | 45.7 | 91.4 | 50-150 | |
| Dibromomethane | 50.0 | 51.0 | 102 | 50-150 | |
| 1,2-Dichloropropane | 50.0 | 50.5 | 101 | 50-150 | |
| Bromodichloromethane | 50.0 | 44.8 | 89.7 | 50-150 | |
| Methyl methacrylate | 50.0 | 52.3 | 105 | 50-150 | |
| 1,4-Dioxane | 1250 | 0.000 | | 50-150 | * |
| 2-Chloroethylvinyl ether | 50.0 | 44.8 | 89.6 | 50-150 | |
| cis-1,3-Dichloropropene | 50.0 | 45.0 | 89.9 | 50-150 | |
| Octane | 50.0 | 27.7 | 55.3 | 50-150 | |
| Toluene | 50.0 | 43.7 | 87.5 | 50-150 | |
| Chloroacetonitrile | 250 | 249 | 99.6 | 50-150 | |
| 2-Nitropropane | 250 | 222 | 88.7 | 50-150 | |
| 1,1-Dichloro-2-pro | 250 | 215 | 86.0 | 50-150 | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240627A_2524062779.D

## Volatiles by EPA 8260D

**Sample Matrix** LIQUID
**Lab Smp Id** 1801
**Data Type** MS DATA
**File ID** 2524062779.D
**Fraction** VOA
**SampleType** ENDCCV
**Inj Date** 28-JUN-2024 0522

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone(MIBK) | 250 | 246 | 98.6 | 50-150 | |
| Tetrachloroethene | 50.0 | 44.1 | 88.2 | 50-150 | |
| trans-1,3-Dichloropropene | 50.0 | 44.4 | 88.9 | 50-150 | |
| Ethyl methacrylate | 50.0 | 46.5 | 92.9 | 50-150 | |
| 1,1,2-Trichloroethane | 50.0 | 48.8 | 97.6 | 50-150 | |
| Chlorodibromomethane | 50.0 | 43.9 | 87.9 | 50-150 | |
| 1,2-Dibromoethane | 50.0 | 45.9 | 91.8 | 50-150 | |
| 2-Hexanone | 250 | 243 | 97.1 | 50-150 | |
| 1-Chlorohexane | 50.0 | 41.4 | 82.8 | 50-150 | |
| 1,3-Dichloropropane | 50.0 | 50.4 | 101 | 50-150 | |
| Chlorobenzene | 50.0 | 48.1 | 96.2 | 50-150 | |
| Ethylbenzene | 50.0 | 42.8 | 85.7 | 50-150 | |
| 1,1,1,2-Tetrachloroethane | 50.0 | 44.7 | 89.4 | 50-150 | |
| mp-Xylene | 100 | 86.1 | 86.1 | 50-150 | |
| o-Xylene | 50.0 | 43.6 | 87.2 | 50-150 | |
| Styrene | 50.0 | 48.6 | 97.2 | 50-150 | |
| Bromoform | 50.0 | 44.9 | 89.8 | 50-150 | |
| Isopropylbenzene | 50.0 | 45.3 | 90.6 | 50-150 | |
| Bromobenzene | 50.0 | 51.2 | 102 | 50-150 | |
| n-Propylbenzene | 50.0 | 48.1 | 96.2 | 50-150 | |
| 1,1,2,2-Tetrachloroethane | 50.0 | 54.6 | 109 | 50-150 | |
| o-Chlorotoluene | 50.0 | 50.5 | 101 | 50-150 | |
| 1,2-Dichloroethene, Total | 100 | 97.0 | 97.0 | 50-150 | |
| 1,3,5-Trimethylbenzene | 50.0 | 49.1 | 98.2 | 50-150 | |
| 1,2,3-Trichloropropane | 50.0 | 54.0 | 108 | 50-150 | |
| trans-1,4-Dichloro-2-butene | 50.0 | 47.3 | 94.7 | 50-150 | |
| p-Chlorotoluene | 50.0 | 51.1 | 102 | 50-150 | |
| tert-Butylbenzene | 50.0 | 49.9 | 99.7 | 50-150 | |
| Pentachloroethane | 50.0 | 44.4 | 88.7 | 50-150 | |
| 1,2,4-Trimethylbenzene | 50.0 | 46.7 | 93.4 | 50-150 | |
| sec-Butylbenzene | 50.0 | 47.3 | 94.6 | 50-150 | |
| p-Isopropyltoluene | 50.0 | 47.3 | 94.6 | 50-150 | |
| 1,3-Dichlorobenzene | 50.0 | 51.2 | 102 | 50-150 | |
| 1,4-Dichlorobenzene | 50.0 | 50.2 | 100 | 50-150 | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240627A_2524062779.D

## Volatiles by EPA 8260D

**Sample Matrix** LIQUID
**Lab Smp Id** 1801
**Data Type** MS DATA
**File ID** 2524062779.D
**Fraction** VOA
**SampleType** ENDCCV
**Inj Date** 28-JUN-2024 0522

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| Benzyl Chloride | 50.0 | 39.4 | 78.7 | 50-150 | |
| n-Butylbenzene | 50.0 | 44.1 | 88.2 | 50-150 | |
| Hexachloroethane | 50.0 | 42.1 | 84.2 | 50-150 | |
| 1,2-Dichlorobenzene | 50.0 | 51.8 | 104 | 50-150 | |
| 1,2-Dibromo-3-chloropropane | 50.0 | 45.9 | 91.8 | 50-150 | |
| Nitrobenzene | 500 | 453 | 90.7 | 50-150 | |
| Hexachlorobutadiene | 50.0 | 36.0 | 72.1 | 50-150 | |
| 1,2,4-Trichlorobenzene | 50.0 | 49.8 | 99.6 | 50-150 | |
| Naphthalene | 50.0 | 46.7 | 93.5 | 50-150 | |
| 1,3-Dichloropropene, Total | 100 | 89.4 | 89.4 | 50-150 | |
| 1,2,3-Trichlorobenzene | 50.0 | 44.2 | 88.4 | 50-150 | |
| 121 TOTAL XYLENES | 150 | 130 | 86.4 | 50-150 | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240628_2524062801.D

## Volatiles by EPA 8260D

**Instrument ID** ms25.i
**Lab File ID** 2524062801.D
**Analysis Type** WATER
**Lab Sample ID** 1800
**Injection Date** 28-JUN-2024 0953
**ICAL Date(s)** 25-JUN-2024, 25-JUN-2024
**ICAL Times** 11:03, 13:05
**Quant Type** ISTD

| Compound | RRF / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.332 | 0.302 | 0.302 | 0.010 | -8.879 | 20.0 | Averaged | |
| Chloromethane | 50.0 | 49.7 | 3.47 | 0.100 | -0.611 | 20.0 | Wt Linear | |
| Vinyl Chloride | 0.375 | 0.360 | 0.360 | 0.010 | -4.127 | 20.0 | Averaged | |
| Bromomethane | 50.0 | 53.3 | 5.23 | 0.010 | 6.60 | 20.0 | Wt Linear | |
| Chloroethane | 50.0 | 47.7 | 4.13 | 0.010 | -4.558 | 20.0 | Wt Linear | |
| Pentane | 50.0 | 42.7 | 4.99 | 0.010 | -14.592 | 20.0 | Wt Linear | |
| Trichlorofluoromethane | 0.514 | 0.484 | 0.484 | 0.010 | -5.829 | 20.0 | Averaged | |
| Dichlorofluoromethane | 0.476 | 0.485 | 0.485 | 0.010 | 1.99 | 20.0 | Averaged | |
| Ethyl Ether | 0.145 | 0.150 | 0.150 | 0.010 | 3.69 | 20.0 | Averaged | |
| 1,1-Dichloroethene | 0.289 | 0.281 | 0.281 | 0.010 | -2.585 | 20.0 | Averaged | |
| Carbon Disulfide | 0.623 | 0.613 | 0.613 | 0.010 | -1.488 | 20.0 | Averaged | |
| Freon 113 | 0.203 | 0.195 | 0.195 | 0.010 | -4.043 | 20.0 | Averaged | |
| Iodomethane | 50.0 | 49.3 | 9.06 | 0.010 | -1.320 | 20.0 | Wt Linear | |
| Acrolein | 0.047 | 0.046 | 0.046 | 0.000 | -2.012 | 20.0 | Averaged | |
| 3-Chloro-1-propene | 50.0 | 48.7 | 4.08 | 0.010 | -2.589 | 20.0 | Wt Linear | |
| Isopropyl Alcohol | 250 | 260 | 63.2 | 0.000 | 4.10 | 20.0 | Wt Linear | |
| Methylene Chloride | 0.236 | 0.240 | 0.240 | 0.010 | 2.01 | 20.0 | Averaged | |
| Acetone | 0.026 | 0.025 | 0.025 | 0.000 | -4.078 | 20.0 | Averaged | |
| Methyl acetate | 50.0 | 47.2 | 19.7 | 0.005 | -5.627 | 20.0 | Wt Linear | |
| trans-1,2-Dichloroethene | 0.283 | 0.291 | 0.291 | 0.010 | 3.10 | 20.0 | Averaged | |
| Hexane | 50.0 | 47.2 | 2.25 | 0.010 | -5.689 | 20.0 | Wt Linear | |
| Methyl t-Butyl Ether | 50.0 | 48.8 | 1.41 | 0.010 | -2.310 | 20.0 | Wt Linear | |
| tert.- Butyl Alcohol | 0.026 | 0.027 | 0.027 | 0.000 | 1.79 | 20.0 | Averaged | |
| Acetonitrile | 0.029 | 0.031 | 0.031 | 0.000 | 6.86 | 20.0 | Averaged | |
| Diisopropyl ether | 0.627 | 0.672 | 0.672 | 0.010 | 7.17 | 20.0 | Averaged | |
| Chloroprene | 0.318 | 0.339 | 0.339 | 0.010 | 6.60 | 20.0 | Averaged | |
| 1,1-Dichloroethane | 0.385 | 0.403 | 0.403 | 0.100 | 4.63 | 20.0 | Averaged | |
| Acrylonitrile | 0.100 | 0.109 | 0.109 | 0.000 | 8.82 | 20.0 | Averaged | |
| n-Propanol | 0.012 | 0.012 | 0.012 | 0.000 | -0.496 | 20.0 | Averaged | |
| Ethyl tert-butyl ether | 0.666 | 0.723 | 0.723 | 0.010 | 8.53 | 20.0 | Averaged | |
| Vinyl Acetate | 50.0 | 46.7 | 16.3 | 0.010 | -6.686 | 20.0 | Wt Linear | |
| cis-1,2-Dichloroethene | 0.287 | 0.298 | 0.298 | 0.010 | 3.96 | 20.0 | Averaged | |
| 2,2-Dichloropropane | 0.307 | 0.313 | 0.313 | 0.010 | 1.98 | 20.0 | Averaged | |
| 100 1,2-Dichloroethene, Total | 0.285 | 0.295 | 0.295 | 0.010 | 3.53 | 20.0 | Averaged | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240628_2524062801.D

## Volatiles by EPA 8260D

**Instrument ID** ms25.i
**Lab File ID** 2524062801.D
**Analysis Type** WATER
**Lab Sample ID** 1800
**Injection Date** 28-JUN-2024 0953
**ICAL Date(s)** 25-JUN-2024, 25-JUN-2024
**ICAL Times** 11:03, 13:05
**Quant Type** ISTD

| Compound | RRF / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 0.124 | 0.130 | 0.130 | 0.010 | 5.53 | 20.0 | Averaged | |
| Cyclohexane | 0.344 | 0.333 | 0.333 | 0.010 | -3.269 | 20.0 | Averaged | |
| Chloroform | 0.416 | 0.421 | 0.421 | 0.010 | 1.18 | 20.0 | Averaged | |
| Ethyl Acetate | 50.0 | 48.1 | 4.17 | 0.010 | -3.868 | 20.0 | Wt Linear | |
| Methyl acrylate | 0.231 | 0.242 | 0.242 | 0.010 | 4.96 | 20.0 | Averaged | |
| Carbon Tetrachloride | 50.0 | 43.2 | 3.79 | 0.010 | -13.502 | 20.0 | Wt Linear | |
| Tetrahydrofuran | 0.071 | 0.073 | 0.073 | 0.000 | 3.00 | 20.0 | Averaged | |
| 41 Dibromofluoromethane | 0.237 | 0.231 | 0.231 | 0.010 | -2.368 | 20.0 | Averaged | |
| 1,1,1-Trichloroethane | 0.324 | 0.332 | 0.332 | 0.010 | 2.45 | 20.0 | Averaged | |
| 2-Butanone | 0.034 | 0.034 | 0.034 | 0.000 | -0.537 | 20.0 | Averaged | |
| 1,1-Dichloropropene | 0.306 | 0.310 | 0.310 | 0.010 | 1.39 | 20.0 | Averaged | |
| 1-Chlorobutane | 0.197 | 0.192 | 0.192 | 0.010 | -2.569 | 20.0 | Averaged | |
| Heptane | 0.178 | 0.170 | 0.170 | 0.000 | -4.544 | 20.0 | Averaged | |
| Propionitrile | 0.038 | 0.041 | 0.041 | 0.000 | 8.82 | 20.0 | Averaged | |
| Benzene | 0.941 | 0.927 | 0.927 | 0.010 | -1.505 | 20.0 | Averaged | |
| Methacrylonitrile | 0.114 | 0.120 | 0.120 | 0.010 | 5.09 | 20.0 | Averaged | |
| tert-Amyl methyl ether | 0.643 | 0.696 | 0.696 | 0.010 | 8.28 | 20.0 | Averaged | |
| 51 1,2-Dichloroethane-d4 | 0.250 | 0.241 | 0.241 | 0.010 | -3.351 | 20.0 | Averaged | |
| Isobutyl alcohol | 500 | 518 | 167 | 0.000 | 3.63 | 20.0 | Wt Linear | |
| 1,2-Dichloroethane | 0.296 | 0.303 | 0.303 | 0.010 | 2.58 | 20.0 | Averaged | |
| tert-Amyl Alcohol | 0.020 | 0.021 | 0.021 | 0.002 | 3.10 | 20.0 | Averaged | |
| Diisobutylene | 50.0 | 46.3 | 1.86 | 0.010 | -7.457 | 20.0 | Wt Linear | |
| Trichloroethene | 0.238 | 0.240 | 0.240 | 0.010 | 0.953 | 20.0 | Averaged | |
| Methyl cyclohexane | 0.973 | 0.964 | 0.964 | 0.005 | -0.977 | 20.0 | Averaged | |
| tert-Amyl Ethylether | 50.0 | 48.6 | 1.83 | 0.010 | -2.709 | 20.0 | Wt Linear | |
| Dibromomethane | 0.151 | 0.158 | 0.158 | 0.010 | 5.09 | 20.0 | Averaged | |
| 1,2-Dichloropropane | 0.226 | 0.237 | 0.237 | 0.010 | 4.87 | 20.0 | Averaged | |
| Bromodichloromethane | 50.0 | 46.6 | 3.41 | 0.010 | -6.786 | 20.0 | Wt Linear | |
| Methyl methacrylate | 0.179 | 0.194 | 0.194 | 0.010 | 8.44 | 20.0 | Averaged | |
| 2-Chloroethylvinyl ether | 50.0 | 46.7 | 6.46 | 0.010 | -6.596 | 20.0 | Wt Linear | |
| cis-1,3-Dichloropropene | 50.0 | 49.7 | 0.992 | 0.010 | -0.656 | 20.0 | Wt Linear | |
| Octane | 0.369 | 0.376 | 0.376 | 0.010 | 1.88 | 20.0 | Averaged | |
| 68 Toluene-d8 | 2.38 | 2.35 | 2.35 | 0.010 | -0.993 | 20.0 | Averaged | |
| Toluene | 1.51 | 1.46 | 1.46 | 0.010 | -2.952 | 20.0 | Averaged | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240628_2524062801.D

## Volatiles by EPA 8260D

**Instrument ID** ms25.i
**Lab File ID** 2524062801.D
**Analysis Type** WATER
**Lab Sample ID** 1800
**Injection Date** 28-JUN-2024 0953
**ICAL Date(s)** 25-JUN-2024, 25-JUN-2024
**ICAL Times** 11:03, 13:05
**Quant Type** ISTD

| Compound | RRF / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| Chloroacetonitrile | 0.038 | 0.039 | 0.039 | 0.000 | 4.84 | 20.0 | Averaged | |
| 2-Nitropropane | 250 | 236 | 6.42 | 0.005 | -5.570 | 20.0 | Wt Linear | |
| 1,1-Dichloro-2-Propanone | 250 | 240 | 65.2 | 0.001 | -3.900 | 20.0 | Wt Linear | |
| 4-Methyl-2-Pentanone(MIBK) | 250 | 260 | 1.62 | 0.010 | 4.00 | 20.0 | Wt Linear | |
| trans-1,3-Dichloropropene | 50.0 | 48.6 | 1.09 | 0.010 | -2.794 | 20.0 | Wt Linear | |
| Tetrachloroethene | 0.548 | 0.546 | 0.546 | 0.010 | -0.447 | 20.0 | Averaged | |
| Ethyl Methacrylate | 50.0 | 49.9 | 1.10 | 0.010 | -0.236 | 20.0 | Wt Linear | |
| 1,1,2-Trichloroethane | 0.463 | 0.495 | 0.495 | 0.010 | 6.99 | 20.0 | Averaged | |
| Chlorodibromomethane | 50.0 | 47.2 | 1.62 | 0.010 | -5.589 | 20.0 | Wt Linear | |
| 1,3-Dichloropropane | 0.914 | 0.994 | 0.994 | 0.010 | 8.79 | 20.0 | Averaged | |
| 1,2-Dibromoethane | 50.0 | 48.5 | 1.67 | 0.010 | -2.917 | 20.0 | Wt Linear | |
| 2-Hexanone | 250 | 256 | 2.39 | 0.010 | 2.48 | 20.0 | Wt Linear | |
| 1-Chlorohexane | 0.792 | 0.824 | 0.824 | 0.010 | 4.07 | 20.0 | Averaged | |
| Ethylbenzene | 50.0 | 47.4 | 1.18 | 0.010 | -5.139 | 20.0 | Wt Linear | |
| Chlorobenzene | 1.53 | 1.60 | 1.60 | 0.300 | 4.58 | 20.0 | Averaged | |
| 1,1,1,2-Tetrachloroethane | 50.0 | 47.8 | 1.81 | 0.010 | -4.476 | 20.0 | Wt Linear | |
| mp-Xylene | 100 | 96.9 | 0.969 | 0.010 | -3.103 | 20.0 | Wt Linear | |
| 120 1,3-Dichloropropene, Total | 100 | 98.3 | 1.04 | 0.010 | -1.725 | 20.0 | Wt Linear | |
| o-Xylene | 1.02 | 0.985 | 0.985 | 0.010 | -3.560 | 20.0 | Averaged | |
| Styrene | 50.0 | 49.2 | 0.572 | 0.010 | -1.545 | 20.0 | Wt Linear | |
| Bromoform | 50.0 | 45.1 | 2.21 | 0.100 | -9.774 | 20.0 | Wt Linear | |
| Isopropylbenzene | 50.0 | 49.5 | 0.408 | 0.010 | -1.025 | 20.0 | Wt Linear | |
| 92 4-Bromofluorobenzene | 0.830 | 0.810 | 0.810 | 0.010 | -2.393 | 20.0 | Averaged | |
| 121 Total Xylenes | 150 | 145 | 0.984 | 0.010 | -3.255 | 20.0 | Wt Linear | |
| n-Propylbenzene | 0.725 | 0.754 | 0.754 | 0.010 | 3.94 | 20.0 | Averaged | |
| Bromobenzene | 0.709 | 0.735 | 0.735 | 0.010 | 3.64 | 20.0 | Averaged | |
| 1,1,2,2-Tetrachloroethane | 0.705 | 0.770 | 0.770 | 0.300 | 9.18 | 20.0 | Averaged | |
| 1,3,5-Trimethylbenzene | 2.02 | 2.13 | 2.13 | 0.010 | 5.40 | 20.0 | Averaged | |
| o-Chlorotoluene | 1.91 | 2.05 | 2.05 | 0.010 | 7.37 | 20.0 | Averaged | |
| 1,2,3-Trichloropropane | 0.227 | 0.242 | 0.242 | 0.010 | 6.49 | 20.0 | Averaged | |
| trans-1,4-Dichloro-2-butene | 50.0 | 49.0 | 4.72 | 0.010 | -1.967 | 20.0 | Wt Linear | |
| p-Chlorotoluene | 1.73 | 1.86 | 1.86 | 0.010 | 7.54 | 20.0 | Averaged | |
| tert-Butylbenzene | 0.483 | 0.516 | 0.516 | 0.010 | 6.94 | 20.0 | Averaged | |
| Pentachloroethane | 50.0 | 48.0 | 2.15 | 0.010 | -3.906 | 20.0 | Wt Linear | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240628_2524062801.D

## Volatiles by EPA 8260D

**Instrument ID** ms25.i
**Lab File ID** 2524062801.D
**Analysis Type** WATER
**Lab Sample ID** 1800
**Injection Date** 28-JUN-2024 0953
**ICAL Date(s)** 25-JUN-2024, 25-JUN-2024
**ICAL Times** 11:03, 13:05
**Quant Type** ISTD

| Compound | RRF / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 50.0 | 49.6 | 0.472 | 0.010 | -0.882 | 20.0 | Wt Linear | |
| sec-Butylbenzene | 2.49 | 2.71 | 2.71 | 0.010 | 8.57 | 20.0 | Averaged | |
| p-Isopropyltoluene | 0.571 | 0.617 | 0.617 | 0.010 | 7.98 | 20.0 | Averaged | |
| 1,3-Dichlorobenzene | 1.19 | 1.26 | 1.26 | 0.010 | 5.45 | 20.0 | Averaged | |
| 1,4-Dichlorobenzene | 1.25 | 1.29 | 1.29 | 0.010 | 3.57 | 20.0 | Averaged | |
| n-Butylbenzene | 0.534 | 0.561 | 0.561 | 0.010 | 5.06 | 20.0 | Averaged | |
| Benzyl Chloride | 50.0 | 45.9 | 3.65 | 0.010 | -8.113 | 20.0 | Wt Linear | |
| Hexachloroethane | 50.0 | 44.6 | 2.62 | 0.010 | -10.770 | 20.0 | Wt Linear | |
| 1,2-Dichlorobenzene | 1.14 | 1.21 | 1.21 | 0.010 | 5.89 | 20.0 | Averaged | |
| 1,2-Dibromo-3-chloropropane | 50.0 | 46.8 | 7.93 | 0.010 | -6.458 | 20.0 | Wt Linear | |
| Nitrobenzene | 500 | 446 | 25.7 | 0.000 | -10.731 | 20.0 | Quadratic | |
| Hexachlorobutadiene | 50.0 | 47.6 | 2.79 | 0.000 | -4.752 | 20.0 | Wt Linear | |
| 1,2,4-Trichlorobenzene | 0.754 | 0.822 | 0.822 | 0.010 | 9.10 | 20.0 | Averaged | |
| Naphthalene | 50.0 | 47.3 | 0.477 | 0.010 | -5.351 | 20.0 | Wt Linear | |
| 1,2,3-Trichlorobenzene | 50.0 | 46.6 | 1.27 | 0.010 | -6.879 | 20.0 | Wt Linear | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240628_2524062829.D

## Volatiles by EPA 8260D

**Sample Matrix** LIQUID
**Lab Smp Id** 1801
**Data Type** MS DATA
**File ID** 2524062829.D
**Fraction** VOA
**SampleType** ENDCCV
**Inj Date** 28-JUN-2024 1934

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 50.0 | 45.7 | 91.4 | 50-150 | |
| Chloromethane | 50.0 | 50.1 | 100 | 50-150 | |
| Vinyl Chloride | 50.0 | 47.3 | 94.7 | 50-150 | |
| Bromomethane | 50.0 | 57.6 | 115 | 50-150 | |
| Chloroethane | 50.0 | 47.5 | 95.1 | 50-150 | |
| Pentane | 50.0 | 38.5 | 77.1 | 50-150 | |
| Trichlorofluoromethane | 50.0 | 45.8 | 91.7 | 50-150 | |
| Dichlorofluoromethane | 50.0 | 49.6 | 99.2 | 50-150 | |
| Ethyl Ether | 50.0 | 50.1 | 100 | 50-150 | |
| 1,1-Dichloroethene | 50.0 | 47.8 | 95.6 | 50-150 | |
| Freon 113 | 50.0 | 45.4 | 90.8 | 50-150 | |
| Carbon Disulfide | 50.0 | 47.1 | 94.2 | 50-150 | |
| Iodomethane | 50.0 | 45.4 | 90.9 | 50-150 | |
| Acrolein | 250 | 230 | 92.0 | 50-150 | |
| Isopropyl Alcohol | 250 | 248 | 99.3 | 50-150 | |
| 3-Chloro-1-propene | 50.0 | 46.8 | 93.6 | 50-150 | |
| Methylene Chloride | 50.0 | 48.9 | 97.9 | 50-150 | |
| Acetone | 250 | 236 | 94.2 | 50-150 | |
| Methyl acetate | 50.0 | 46.6 | 93.2 | 50-150 | |
| trans-1,2-Dichloroethene | 50.0 | 49.4 | 98.9 | 50-150 | |
| Hexane | 50.0 | 42.5 | 85.0 | 50-150 | |
| Methyl t-Butyl Ether | 50.0 | 47.1 | 94.1 | 50-150 | |
| tert.- Butyl Alcohol | 250 | 252 | 101 | 50-150 | |
| Acetonitrile | 250 | 272 | 109 | 50-150 | |
| Diisopropyl ether | 50.0 | 53.2 | 106 | 50-150 | |
| Chloroprene | 50.0 | 52.7 | 105 | 50-150 | |
| 1,1-Dichloroethane | 50.0 | 52.1 | 104 | 50-150 | |
| Acrylonitrile | 250 | 267 | 107 | 50-150 | |
| n-Propanol | 500 | 505 | 101 | 50-150 | |
| Ethyl tert-butyl ether | 50.0 | 53.4 | 107 | 50-150 | |
| Vinyl acetate | 50.0 | 43.6 | 87.2 | 50-150 | |
| cis-1,2-Dichloroethene | 50.0 | 51.2 | 102 | 50-150 | |
| 2,2-Dichloropropane | 50.0 | 39.6 | 79.1 | 50-150 | |
| Bromochloromethane | 50.0 | 51.8 | 104 | 50-150 | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240628_2524062829.D

## Volatiles by EPA 8260D

**Sample Matrix** LIQUID
**Lab Smp Id** 1801
**Data Type** MS DATA
**File ID** 2524062829.D
**Fraction** VOA
**SampleType** ENDCCV
**Inj Date** 28-JUN-2024 1934

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| Cyclohexane | 50.0 | 47.1 | 94.1 | 50-150 | |
| Chloroform | 50.0 | 51.4 | 103 | 50-150 | |
| Ethyl acetate | 50.0 | 47.9 | 95.9 | 50-150 | |
| Methyl acrylate | 50.0 | 52.1 | 104 | 50-150 | |
| Carbon Tetrachloride | 50.0 | 44.4 | 88.8 | 50-150 | |
| Tetrahydrofuran | 250 | 261 | 104 | 50-150 | |
| 1,1,1-Trichloroethane | 50.0 | 50.8 | 102 | 50-150 | |
| 2-Butanone | 250 | 248 | 99.1 | 50-150 | |
| 1,1-Dichloropropene | 50.0 | 48.9 | 97.8 | 50-150 | |
| 1-Chlorobutane | 50.0 | 48.7 | 97.4 | 50-150 | |
| Heptane | 50.0 | 38.7 | 77.3 | 50-150 | |
| Benzene | 50.0 | 48.9 | 97.9 | 50-150 | |
| Propionitrile | 250 | 276 | 110 | 50-150 | |
| Methacrylonitrile | 50.0 | 52.8 | 106 | 50-150 | |
| tert-amyl methyl E | 50.0 | 53.2 | 106 | 50-150 | |
| Isobutyl alcohol | 500 | 669 | 134 | 50-150 | |
| 1,2-Dichloroethane | 50.0 | 49.9 | 99.9 | 50-150 | |
| tert-Amyl Alcohol | 250 | 244 | 97.8 | 50-150 | |
| Diisobutylene | 50.0 | 44.9 | 89.7 | 50-150 | |
| Trichloroethene | 50.0 | 47.5 | 95.0 | 50-150 | |
| Methyl cyclohexane | 50.0 | 44.4 | 88.8 | 50-150 | |
| tert-Amyl Ethylether | 50.0 | 47.5 | 95.0 | 50-150 | |
| Dibromomethane | 50.0 | 51.8 | 104 | 50-150 | |
| 1,2-Dichloropropane | 50.0 | 52.4 | 105 | 50-150 | |
| Bromodichloromethane | 50.0 | 45.5 | 91.1 | 50-150 | |
| Methyl methacrylate | 50.0 | 53.7 | 107 | 50-150 | |
| 1,4-Dioxane | 1250 | 0.000 | | 50-150 | * |
| 2-Chloroethylvinyl ether | 50.0 | 45.8 | 91.6 | 50-150 | |
| cis-1,3-Dichloropropene | 50.0 | 43.9 | 87.8 | 50-150 | |
| Octane | 50.0 | 38.3 | 76.7 | 50-150 | |
| Toluene | 50.0 | 44.8 | 89.5 | 50-150 | |
| Chloroacetonitrile | 250 | 247 | 98.8 | 50-150 | |
| 2-Nitropropane | 250 | 225 | 89.9 | 50-150 | |
| 1,1-Dichloro-2-pro | 250 | 219 | 87.5 | 50-150 | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240628_2524062829.D

## Volatiles by EPA 8260D

**Sample Matrix** LIQUID
**Lab Smp Id** 1801
**Data Type** MS DATA
**File ID** 2524062829.D
**Fraction** VOA
**SampleType** ENDCCV
**Inj Date** 28-JUN-2024 1934

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone(MIBK) | 250 | 250 | 100 | 50-150 | |
| Tetrachloroethene | 50.0 | 47.4 | 94.9 | 50-150 | |
| trans-1,3-Dichloropropene | 50.0 | 43.5 | 87.0 | 50-150 | |
| Ethyl methacrylate | 50.0 | 46.5 | 93.0 | 50-150 | |
| 1,1,2-Trichloroethane | 50.0 | 49.0 | 98.0 | 50-150 | |
| Chlorodibromomethane | 50.0 | 43.5 | 87.0 | 50-150 | |
| 1,2-Dibromoethane | 50.0 | 45.4 | 90.8 | 50-150 | |
| 2-Hexanone | 250 | 245 | 98.1 | 50-150 | |
| 1-Chlorohexane | 50.0 | 46.6 | 93.2 | 50-150 | |
| 1,3-Dichloropropane | 50.0 | 50.5 | 101 | 50-150 | |
| Chlorobenzene | 50.0 | 47.5 | 95.0 | 50-150 | |
| Ethylbenzene | 50.0 | 43.5 | 87.0 | 50-150 | |
| 1,1,1,2-Tetrachloroethane | 50.0 | 44.1 | 88.3 | 50-150 | |
| mp-Xylene | 100 | 87.1 | 87.0 | 50-150 | |
| o-Xylene | 50.0 | 44.4 | 88.8 | 50-150 | |
| Styrene | 50.0 | 48.9 | 97.7 | 50-150 | |
| Bromoform | 50.0 | 44.5 | 88.9 | 50-150 | |
| Isopropylbenzene | 50.0 | 48.9 | 97.8 | 50-150 | |
| Bromobenzene | 50.0 | 51.0 | 102 | 50-150 | |
| n-Propylbenzene | 50.0 | 50.8 | 102 | 50-150 | |
| 1,1,2,2-Tetrachloroethane | 50.0 | 55.0 | 110 | 50-150 | |
| o-Chlorotoluene | 50.0 | 52.6 | 105 | 50-150 | |
| 1,2-Dichloroethene, Total | 100 | 101 | 101 | 50-150 | |
| 1,3,5-Trimethylbenzene | 50.0 | 51.5 | 103 | 50-150 | |
| 1,2,3-Trichloropropane | 50.0 | 53.1 | 106 | 50-150 | |
| trans-1,4-Dichloro-2-butene | 50.0 | 47.4 | 94.7 | 50-150 | |
| p-Chlorotoluene | 50.0 | 52.6 | 105 | 50-150 | |
| tert-Butylbenzene | 50.0 | 52.8 | 106 | 50-150 | |
| Pentachloroethane | 50.0 | 43.3 | 86.6 | 50-150 | |
| 1,2,4-Trimethylbenzene | 50.0 | 48.8 | 97.6 | 50-150 | |
| sec-Butylbenzene | 50.0 | 53.1 | 106 | 50-150 | |
| p-Isopropyltoluene | 50.0 | 51.9 | 104 | 50-150 | |
| 1,3-Dichlorobenzene | 50.0 | 51.3 | 103 | 50-150 | |
| 1,4-Dichlorobenzene | 50.0 | 50.9 | 102 | 50-150 | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** ALS Houston
**Project** AHH131|HS24061196

**Workorder** 3366027

**RunID** 25240628_2524062829.D

## Volatiles by EPA 8260D

**Sample Matrix** LIQUID
**Lab Smp Id** 1801
**Data Type** MS DATA
**File ID** 2524062829.D
**Fraction** VOA
**SampleType** ENDCCV
**Inj Date** 28-JUN-2024 1934

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| Benzyl Chloride | 50.0 | 30.4 | 60.9 | 50-150 | |
| n-Butylbenzene | 50.0 | 49.0 | 97.9 | 50-150 | |
| Hexachloroethane | 50.0 | 45.6 | 91.2 | 50-150 | |
| 1,2-Dichlorobenzene | 50.0 | 52.4 | 105 | 50-150 | |
| 1,2-Dibromo-3-chloropropane | 50.0 | 46.9 | 93.7 | 50-150 | |
| Nitrobenzene | 500 | 451 | 90.2 | 50-150 | |
| Hexachlorobutadiene | 50.0 | 42.8 | 85.6 | 50-150 | |
| 1,2,4-Trichlorobenzene | 50.0 | 50.1 | 100 | 50-150 | |
| Naphthalene | 50.0 | 46.6 | 93.1 | 50-150 | |
| 1,3-Dichloropropene, Total | 100 | 87.4 | 87.4 | 50-150 | |
| 1,2,3-Trichlorobenzene | 50.0 | 44.6 | 89.3 | 50-150 | |
| 121 TOTAL XYLENES | 150 | 131 | 87.6 | 50-150 | |

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Form 8

# Internal Standard Area and RT Summary

## Volatiles by EPA 8260D

Workorder

**3366027**

Client

ALS Houston

Project

AHH131|HS24061196

07/09/2024

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# Form 8 - Internal Standard Area and RT Summary

Client ALS Houston

Project HS24061196 - AHH131

Workorder 3366027

## Volatiles by EPA 8260D

| 23240627 | | Fluorobenzene | | | | Chlorobenzene -d5 | | | | 1,4-Dichloro - benzene-d4 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | File ID | Area | # | RT | # | Area | # | RT | # | Area | # | RT | # | |
| STD-CCV | 2324062701.D | 950388 | | 4.35 | | 413312 | | 6.37 | | 467414 | | 8.14 | | |
| 3366027010 | 2324062720.D | 947497 | | 4.36 | | 411584 | | 6.36 | | 454285 | | 8.14 | | |
| MB-3845268 | 2324062705.D | 981269 | | 4.36 | | 433179 | | 6.37 | | 478909 | | 8.14 | | |
| LCS-3845269 | 2324062702.D | 955689 | | 4.36 | | 409041 | | 6.37 | | 460396 | | 8.14 | | |
| MS-3845270 | 2324062725.D | 872922 | | 4.36 | | 386317 | | 6.37 | | 433687 | | 8.14 | | |
| MSD-3845271 | 2324062726.D | 895813 | | 4.36 | | 404339 | | 6.37 | | 470448 | | 8.14 | | |

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

# - Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

# Form 8 - Internal Standard Area and RT Summary

Client ALS Houston

Project HS24061196 - AHH131

Workorder 3366027

## Volatiles by EPA 8260D

| 25240627A | | Fluorobenzene | | | | Chlorobenzene -d5 | | | | 1,4-Dichloro - benzene-d4 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | File ID | Area | # | RT | # | Area | # | RT | # | Area | # | RT | # |
| STD-CCV | 2524062751.D | 1182847 | | 4.17 | | 461076 | | 6.17 | | 401286 | | 7.95 | |
| 3366027001 | 2524062766.D | 1048163 | | 4.17 | | 376499 | | 6.17 | | 330194 | | 7.95 | |
| 3366027003 | 2524062768.D | 1037361 | | 4.17 | | 371242 | | 6.17 | | 311842 | | 7.95 | |
| 3366027004 | 2524062769.D | 990668 | | 4.17 | | 364926 | | 6.17 | | 307656 | | 7.95 | |
| 3366027005 | 2524062770.D | 1033369 | | 4.17 | | 377230 | | 6.17 | | 324767 | | 7.95 | |
| 3366027006 | 2524062771.D | 982319 | | 4.17 | | 361886 | | 6.17 | | 309905 | | 7.95 | |
| 3366027007 | 2524062772.D | 1048553 | | 4.17 | | 389797 | | 6.17 | | 331170 | | 7.95 | |
| 3366027008 | 2524062773.D | 990871 | | 4.17 | | 357330 | | 6.17 | | 294168 | | 7.95 | |
| 3366027009 | 2524062774.D | 998138 | | 4.17 | | 366918 | | 6.17 | | 309097 | | 7.95 | |
| 3366027011 | 2524062757.D | 1143548 | | 4.17 | | 404789 | | 6.17 | | 355106 | | 7.95 | |
| MB-3845608 | 2524062755.D | 1165460 | | 4.17 | | 419122 | | 6.17 | | 366151 | | 7.95 | |
| LCS-3845609 | 2524062752.D | 1175116 | | 4.17 | | 447665 | | 6.17 | | 395725 | | 7.95 | |

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

# - Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

# Form 8 - Internal Standard Area and RT Summary

Client ALS Houston

Project HS24061196 - AHH131

Workorder **3366027**

## Volatiles by EPA 8260D

| 25240628 | | Fluorobenzene | | | | Chlorobenzene -d5 | | | | 1,4-Dichloro - benzene-d4 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | File ID | Area | # | RT | # | Area | # | RT | # | Area | # | RT | # | |
| STD-CCV | 2524062801.D | 1037403 | | 4.17 | | 395519 | | 6.17 | | 361869 | | 7.95 | | |
| 3366027001 | 2524062825.D | 874380 | | 4.17 | | 326807 | | 6.17 | | 270010 | | 7.95 | | |
| 3366027002 | 2524062809.D | 1017598 | | 4.17 | | 367641 | | 6.17 | | 310134 | | 7.95 | | |
| MB-3845975 | 2524062804.D | 1076068 | | 4.17 | | 385851 | | 6.17 | | 307789 | | 7.95 | | |
| LCS-3845976 | 2524062802.D | 1039946 | | 4.17 | | 395604 | | 6.17 | | 325554 | | 7.95 | | |

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

# - Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

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Logbook

# Analysis Logs

## Volatiles by EPA 8260D

Workorder

**3366027**

Client

ALS Houston

Project

AHH131|HS24061196

07/09/2024

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Data File: \\GC01\TargetData\Chem2\ms23.i\23_2024\23240625.b

Rev. 8/07/2022

## GCMS ANALYSIS - VOLATILE ORGANICS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DATE(S): | 6/25/2024 | Analyst: | ILY | | SOP ID: | 02--8260 | |
| DATA FILE: | 23240625xx.d | BFB INJ : | 6/25/24 10:30 | INSTRUMENT: MS23 | METHOD(S) | 8260W | 8260C_W | D8260W |
| BATCH: | 23240625.b | 12-HOUR ENDING: | 6/25/24 22:30 | ICAL DATE: 6/25/2024 | LIMS BATCH: | | | 73574 |

| Pos # | Run # | ALS Sample ID (w/ Container ID) | Dilution | Test | pH | HDSP / Wt. | $CL^-$ | Comment | Pos # | Run # | ALS Sample ID (w/ Container ID) | Dilution | Test | pH | HDSP / Wt. | $CL^-$ | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 00 | 1000 | 1 | BFB | - | - | - | | 33 | 33 | | | | | | | |
| 1 | 01 | WP | 1 | 8260 | - | - | - | | 34 | 34 | | | | | | | |
| 2 | 02 | WP | 1 | 8260 | - | - | - | | 35 | 35 | | | | | | | |
| 3 | 03 | VSTD00.5 | 1 | 8260 | - | - | - | | 36 | 36 | | | | | | | |
| 4 | 04 | 1234 | 1 | 8260 | - | - | - | | 37 | 37 | | | | | | | |
| 5 | 05 | 1235 | 1 | 8260 | - | - | - | | 38 | 38 | | | | | | | |
| 6 | 06 | 1236 | 1 | 8260 | - | - | - | | 39 | 39 | | | | | | | |
| 7 | 07 | 1237 | 1 | 8260 | - | - | - | | 40 | 40 | | | | | | | |
| 8 | 08 | 1238 | 1 | 8260 | - | - | - | | 41 | 41 | | | | | | | |
| 9 | 09 | 1239 | 1 | 8260 | - | - | - | | 42 | 42 | | | | | | | |
| 10 | 10 | WP | 1 | 8260 | - | - | - | | 43 | 43 | | | | | | | |
| 11 | 11 | WP | 1 | 8260 | - | - | - | | 44 | 44 | | | | | | | |
| 12 | 12 | WP | 1 | 8260 | - | - | - | | 45 | 45 | | | | | | | |
| 13 | 13 | WP | 1 | 8260 | - | - | - | | 46 | 46 | | | | | | | |
| 14 | 14 | 3844054 | 1 | 8260 | - | - | - | | 47 | 47 | | | | | | | |
| 15 | 15 | 3844055 | 1 | 8260 | - | - | - | | 48 | 48 | | | | | | | |
| 16 | 16 | WP | 1 | 8260 | - | - | - | | 49 | 49 | | | | | | | |
| 17 | 17 | 3364577008-A | 1 | D8260W V | <2 | N | N | | 50 | 50 | | | | | | | |
| 18 | 18 | 3364577007-A | 1 | D8260W V | <2 | N | N | | 51 | 51 | | | | | | | |
| 19 | 19 | 3364577003-A | 1 | D8260W V | <2 | N | N | | 52 | 52 | | | | | | | |
| 20 | 20 | 3364577004-A | 1 | D8260W V | <2 | N | N | | 53 | 53 | | | | | | | |
| 21 | 21 | 3364577005-A | 1 | D8260W V | <2 | N | N | | 54 | 54 | | | | | | | |
| 22 | 22 | 3364577006-A | 1 | D8260W V | <2 | N | N | | 55 | 55 | | | | | | | |
| 23 | 23 | 3364464014-A | 1 | D8260W V | <2 | N | N | | 56 | 56 | | | | | | | |
| 24 | 24 | 3364464015-A | 1 | D8260W V | <2 | N | N | | 57 | 57 | | | | | | | |
| 25 | 25 | 3364464016-A | 1 | D8260W V | <2 | N | N | | 58 | 58 | | | | | | | |
| 26 | 26 | 3364464021-A | 1 | D8260W V | <2 | N | N | | 59 | 59 | | | | | | | |
| 27 | 27 | 3364464022-A | 1 | D8260W V | <2 | N | N | | 60 | 60 | | | | | | | |
| 28 | 28 | 3364577001-A | 1 | D8260W V | <2 | N | N | DL10 | 61 | 61 | | | | | | | |
| 29 | 29 | 3364577002-A | 1 | D8260W V | <2 | N | N | DL10 | 62 | 62 | | | | | | | |
| 30 | 30 | 3844056 | 1 | 8260 | <2 | N | N | "B" | 63 | 63 | | | | | | | |
| 30 | 31 | 3844057 | 1 | 8260 | <2 | N | N | "B" | 64 | 64 | | | | | | | |
| 31 | 32 | 1801 | 1 | 8260 | - | - | - | | 65 | 65 | | | | | | | |

| | | | |
|---|---|---|---|
| IS: | VOA0258 | Vhew: | VOA0283 |
| SS: | VOA0259 | Vgas: | VOA0286 |
| BFB: | VOA0250 | Qvoa: | VOA0270 |
| AF: | VOA0261 | Qgas: | VOA0285 |

ABBREVIATIONS

| | | |
|---|---|---|
| CO: Suspect Carryover | SS: Surrogate Failure | NB: Needs Batched |
| LS: Library Search | IS: ISTD Failure | AAS: Autosampler Adds Surrogate (Soil) |
| RR: Rerun same dilution | DNR: Do not Report | (**): Sample is an RR, DF, or DL |
| DFx: Rerun @ less diln x | NU: Not Used | WP: Water Blank |
| DLx: Rerun @ diln x | AF: Antifoam was used | COMP: Composite |
| HDSP: Headspase | Cl: Chlorine Check | Wt: Weight |

| | |
|---|---|
| 10ul : | HS972 |
| 25ul : | HS994 |
| 100ul : | HS987 |
| 1 mL : | HS927 |
| 5 mL : | HS997 |
| 10 mL : | HS1002 |

# Batch Review Checklist

Rev. 8/07/2022

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **TARGET BATCH:** | 23240625.b | **HORIZON BATCH:** | 0 | | 73574 | **ICAL DATE(S):** | 6/25/2024 |
| **INSTRUMENT:** | MS23 | **METHOD:** | 8260W | 8260C_W | D8260W | **SOP ID:** | 02--8260 |

## DATA REVIEW

| Reviewer 1 | Reviewer 2 | | |
|---|---|---|---|
| PDK | ILY | BFB Reviewed | |
| PDK | ILY | Calibration/Continuing Calibration reviewed | |
| PDK | ILY | Continuing Calibration passes +/- ISTD area - CCAL is zeroed | |
| PDK | ILY | Correct ICAL referenced | |
| PDK | ILY | Correct start/end times/dates for ICAL | |
| PDK | ILY | Any elavated reporting limits due to ICAL? | Yes/No: **N** |
| PDK | ILY | Blank reviewed. | |
| PDK | ILY | LCS/second source reviewed | |
| PDK | ILY | MS/MSD reviewed - List failures on native sample | |
| PDK | ILY | All samples within 12/24-hour tune period? | |
| PDK | ILY | Compound retention times reviewed | |
| PDK | ILY | ISTDs for each sample reviewed | |
| PDK | ILY | Surrogates for each sample reviewed | |
| - | - | Soil weights/volumes correct | |
| PDK | ILY | Samples checked for over-range detections and put back in for reanalysis | |
| PDK | ILY | Spectra and ions have been reviewed for each analyte detected | |
| - | - | Library search has been performed for clients requesting it | |
| PDK | ILY | Container IDs in LIMS batch | |

## REPORTS REVIEW:

| | |
|---|---|
| ILY | Runlog printed to PDF |
| PDK | Batch summary printed to PDF |
| PDK | ICAL Summary printed to PDF |
| PDK | BFB Reports printed to PDF |
| PDK | Calibration/CCAL reports printed to PDF |
| PDK | Reports printed to PDF for all samples (w/ LS if needed) |
| PDK | Logbook complete - All standard information included |
| ILY | Tests scheduled in LIMS |

| Signature | Date | |
|---|---|---|
| PDK | 6/25/2024 | Data 1st Review |
| ILY | 6/27/2024 | Data 2nd Review |
| ILY | 6/27/2024 | Data Reported |
| ILY | 6/27/2024 | Data Approved |

## COMMENTS:

Iodomethane & 2-CEVE reporting limits lowered to 100ppb

**LL Readback Outliers:** 2-CEVE, Nitrobenzene high bias

**MIDL Readback Outliers:** None

**ICV Outliers(70-130%)** : None

**DOD ICV Outliers (80-120%)** : None

Data File: \\GC01\TargetData\Chem2\ms23.i\23_2024\23240627.b

Rev. 8/07/2022

## GCMS ANALYSIS - VOLATILE ORGANICS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DATE(S): | 6/27/2024 | Analyst: | ILY | | SOP ID: | 02--8260 | |
| DATA FILE: | 23240627xx.d | BFB INJ : | 6/27/24 8:15 | INSTRUMENT: MS23 | METHOD(S) | 8260W | D8260DW / D8260W |
| BATCH: | 23240627.b | 12-HOUR ENDING: | 6/27/24 20:15 | ICAL DATE: 6/25/2024 | LIMS BATCH: | | 73629 |

| Pos # | Run # | ALS Sample ID (w/ Container ID) | Dilution | Test | pH | HDSP / Wt. | $CL^-$ | Comment | Pos # | Run # | ALS Sample ID (w/ Container ID) | Dilution | Test | pH | HDSP / Wt. | $CL^-$ | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 00 | 1000 | 1 | BFB | - | - | - | | 33 | 33 | | | | | | | |
| 1 | 01 | 1800 | 1 | 8260 | - | - | - | | 34 | 34 | | | | | | | |
| 2 | 02 | 3845269 | 1 | 8260 | - | - | - | | 35 | 35 | | | | | | | |
| 3 | 03 | WP | 1 | 8260 | - | - | - | | 36 | 36 | | | | | | | |
| 4 | 04 | WP | 1 | 8260 | - | - | - | | 37 | 37 | | | | | | | |
| 5 | 05 | 3845268 | 1 | 8260 | - | - | - | | 38 | 38 | | | | | | | |
| 6 | 06 | 3366028010-A | 1 | D8260W V | <2 | N | N | | 39 | 39 | | | | | | | |
| 7 | 07 | 3366029007-B | 1 | D8260W V | <2 | N | N | (CORR) EXP | 40 | 40 | LAST VIAL | | | | | | |
| 8 | 08 | 3366029008-B | 1 | D8260W V | <2 | N | N | (CORR) EXP | 41 | 41 | LAST VIAL | | | | | | |
| 9 | 09 | 3366031002-B | 1 | D8260W V | <2 | N | N | (CORR) | 42 | 42 | LAST VIAL | | | | | | |
| 10 | 10 | 3366031003-B | 1 | D8260W V | <2 | N | N | (CORR) | 43 | 43 | LAST VIAL | | | | | | |
| 11 | 11 | 3366028001-A | 1 | D8260W V | <2 | N | N | | 44 | 44 | 1 VIAL | | | | | | |
| 12 | 12 | 3366028002-A | 1 | D8260W V | <2 | N | N | | 45 | 45 | | | | | | | |
| 13 | 13 | 3366028003-A | 1 | D8260W V | <2 | N | N | | 46 | 46 | | | | | | | |
| 14 | 14 | 3366028004-A | 1 | D8260W V | <2 | N | N | DL20 | 47 | 47 | | | | | | | |
| 15 | 15 | 3366028005-A | 1 | D8260W V | <2 | N | N | CO RR1X | 48 | 48 | | | | | | | |
| 16 | 16 | 3366028006-A | 1 | D8260W V | <2 | N | N | | 49 | 49 | | | | | | | |
| 17 | 17 | 3366028007-A | 1 | D8260W V | <2 | N | N | DL20 | 50 | 50 | | | | | | | |
| 18 | 18 | 3366028008-A | 1 | D8260W V | <2 | N | N | CO RR1X | 51 | 51 | | | | | | | |
| 19 | 19 | 3366028009-A | 1 | D8260W V | <2 | N | N | | 52 | 52 | | | | | | | |
| 20 | 20 | 3366027010-A | 1 | D8260W V | <2 | N | N | | 53 | 53 | | | | | | | |
| 21 | 21 | 3366029003-B | 10 | D8260W V | <2 | N | N | (DL) EXP | 54 | 54 | TCE | | | | | | |
| 22 | 22 | 3366029005-B | 10 | D8260W V | <2 | N | N | (DL) EXP | 55 | 55 | C12DCE TCE | | | | | | |
| 23 | 23 | 3366031001-D | 10 | D8260W V | <2 | N | N | (DL) | 56 | 56 | TCE | | | | | | |
| 24 | 24 | 3366029006-B | 100 | D8260W V | <2 | N | N | (DL) EXP | 57 | 57 | C12DCE TCE | | | | | | |
| 25 | 25 | 3845270 | 1 | 8260 | <2 | N | N | "B" | 58 | 58 | | | | | | | |
| 25 | 26 | 3845271 | 1 | 8260 | <2 | N | N | "B" | 59 | 59 | | | | | | | |
| 26 | 27 | 1801 | 1 | 8260 | - | - | - | | 60 | 60 | | | | | | | |
| 27 | 28 | | | | | | | | 61 | 61 | | | | | | | |
| 28 | 29 | | | | | | | | 62 | 62 | | | | | | | |
| 29 | 30 | | | | | | | | 63 | 63 | | | | | | | |
| 30 | 31 | | | | | | | | 64 | 64 | | | | | | | |
| 31 | 32 | | | | | | | | 65 | 65 | | | | | | | |

| | | | |
|---|---|---|---|
| IS: | VOA0258 | Vhew: | VOA0283 |
| SS: | VOA0259 | Vgas: | VOA0286 |
| BFB: | VOA0250 | Qvoa: | VOA0270 |
| AF: | VOA0261 | Qgas: | VOA0285 |

ABBREVIATIONS

| | | | | | |
|---|---|---|---|---|---|
| CO: | Suspect Carryover | SS: | Surrogate Failure | NB: | Needs Batched |
| LS: | Library Search | IS: | ISTD Failure | AAS: | Autosampler Adds Surrogate (Soil) |
| RR: | Rerun same dilution | DNR: | Do not Report | (**): | Sample is an RR, DF, or DL |
| DFx: | Rerun @ less diln x | NU: | Not Used | WP: | Water Blank |
| DLx: | Rerun @ diln x | AF: | Antifoam was used | COMP: | Composite |
| HDSP: | Headspase | Cl: | Chlorine Check | Wt: | Weight |

| | |
|---|---|
| 10ul : | HS972 |
| 25ul : | HS994 |
| 100ul : | HS987 |
| 1 mL : | HS927 |
| 5 mL : | HS997 |
| 10 mL : | HS1002 |

Rev. 8/07/2022

# Batch Review Checklist

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **TARGET BATCH:** | 23240627.b | **HORIZON BATCH:** | 0 | 73629 | | **ICAL DATE(S):** | 6/25/2024 |
| **INSTRUMENT:** | MS23 | **METHOD:** | 8260W | D8260DW | D8260W | **SOP ID:** | 02--8260 |

## DATA REVIEW

| Reviewer 1 | Reviewer 2 | | |
|---|---|---|---|
| CHS | ILY | BFB Reviewed | |
| CHS | ILY | Calibration/Continuing Calibration reviewed | |
| CHS | ILY | Continuing Calibration passes +/- ISTD area - CCAL is zeroed | |
| CHS | ILY | Correct ICAL referenced | |
| CHS | ILY | Correct start/end times/dates for ICAL | |
| CHS | ILY | Any elavated reporting limits due to ICAL? | Yes/No: N |
| CHS | ILY | Blank reviewed. | |
| CHS | ILY | LCS/second source reviewed | |
| CHS | ILY | MS/MSD reviewed - List failures on native sample | |
| CHS | ILY | All samples within 12/24-hour tune period? | |
| CHS | ILY | Compound retention times reviewed | |
| CHS | ILY | ISTDs for each sample reviewed | |
| CHS | ILY | Surrogates for each sample reviewed | |
| - | - | Soil weights/volumes correct | |
| CHS | ILY | Samples checked for over-range detections and put back in for reanalysis | |
| CHS | ILY | Spectra and ions have been reviewed for each analyte detected | |
| - | - | Library search has been performed for clients requesting it | |
| CHS | ILY | Container IDs in LIMS batch | |

## REPORTS REVIEW:

| | |
|---|---|
| ILY | Runlog printed to PDF |
| CHS | Batch summary printed to PDF |
| CHS | ICAL Summary printed to PDF |
| CHS | BFB Reports printed to PDF |
| CHS | Calibration/CCAL reports printed to PDF |
| CHS | Reports printed to PDF for all samples (w/ LS if needed) |
| CHS | Logbook complete - All standard information included |
| ILY | Tests scheduled in LIMS |

| Signature | Date | |
|---|---|---|
| CHS | 6/28/2024 | Data 1st Review |
| ILY | 6/28/2024 | Data 2nd Review |
| ILY | 6/28/2024 | Data Reported |
| ILY | 6/28/2024 | Data Approved |

## COMMENTS:

Iodomethane & 2-CEVE reporting limits lowered to 100ppb

**LL Readback Outliers:** 2-CEVE, Nitrobenzene high bias

**MIDL Readback Outliers:** None

**ICV Outliers(70-130%)** : None

**DOD ICV Outliers (80-120%)** : None

Data File: \\GC01\TargetData\Chem2\ms25.i\25_2024\25240625.b

Rev. 8/07/2022

## GCMS ANALYSIS - VOLATILE ORGANICS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DATE(S): | 6/25/2024 | Analyst: | ILY | | SOP ID: | 02 8260 | |
| DATA FILE: | 25240625xx.d | BFB INJ : | 6/25/24 9:52 | INSTRUMENT: MS25 | METHOD(S) | 8260W | 8260C_W | D8260W |
| BATCH: | 25240625.b | 12-HOUR ENDING: | 6/25/24 21:52 | ICAL DATE: 6/25/2024 | LIMS BATCH: | | | 73573 |

| Pos # | Run # | ALS Sample ID (w/ Container ID) | Dilution | Test | pH | HDSP / Wt. | $CL^-$ | Comment | Pos # | Run # | ALS Sample ID (w/ Container ID) | Dilution | Test | pH | HDSP / Wt. | $CL^-$ | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 00 | 1000 | 1 | BFB | - | - | - | | 33 | 33 | | | | | | | |
| 1 | 01 | WP | 1 | 8260 | - | - | - | | 34 | 34 | | | | | | | |
| 2 | 02 | WP | 1 | 8260 | - | - | - | | 35 | 35 | | | | | | | |
| 3 | 03 | VSTD00.5 | 1 | 8260 | - | - | - | | 36 | 36 | | | | | | | |
| 4 | 04 | 1234 | 1 | 8260 | - | - | - | | 37 | 37 | | | | | | | |
| 5 | 05 | 1235 | 1 | 8260 | - | - | - | | 38 | 38 | | | | | | | |
| 6 | 06 | 1236 | 1 | 8260 | - | - | - | | 39 | 39 | | | | | | | |
| 7 | 07 | 1237 | 1 | 8260 | - | - | - | | 40 | 40 | | | | | | | |
| 8 | 08 | 1238 | 1 | 8260 | - | - | - | | 41 | 41 | | | | | | | |
| 9 | 09 | 1239 | 1 | 8260 | - | - | - | | 42 | 42 | | | | | | | |
| 10 | 10 | WP | 1 | 8260 | - | - | - | | 43 | 43 | | | | | | | |
| 11 | 11 | WP | 1 | 8260 | - | - | - | | 44 | 44 | | | | | | | |
| 12 | 12 | WP | 1 | 8260 | - | - | - | | 45 | 45 | | | | | | | |
| 13 | 13 | WP | 1 | 8260 | - | - | - | | 46 | 46 | | | | | | | |
| 14 | 14 | 3844041 | 1 | 8260 | - | - | - | AF | 47 | 47 | | | | | | | |
| 15 | 15 | 3844042 | 1 | 8260 | - | - | - | AF | 48 | 48 | | | | | | | |
| 16 | 16 | WP | 1 | 8260 | - | - | - | | 49 | 49 | | | | | | | |
| 17 | 17 | LOQ 1.0 | 1 | 8260 | - | - | - | | 50 | 50 | | | | | | | |
| 18 | 18 | 3364027004-A | 1 | D8260W V | | N | | | 51 | 51 | | | | | | | |
| 19 | 19 | 3364639004-A | 1 | D8260W V | | N | | | 52 | 52 | | | | | | | |
| 20 | 20 | 3364581002-A | 1 | D8260W V | | N | | | 53 | 53 | | | | | | | |
| 21 | 21 | 3364581001-A | 1 | D8260W V | | N | | | 54 | 54 | | | | | | | |
| 22 | 22 | 3364027001-A | 1 | D8260W V | | N | | | 55 | 55 | | | | | | | |
| 23 | 23 | 3364027002-A | 1 | D8260W V | | N | | | 56 | 56 | | | | | | | |
| 24 | 24 | 3364027003-A | 1 | D8260W V | | N | | | 57 | 57 | | | | | | | |
| 25 | 25 | 3364581003-A | 1 | D8260W V | | N | | | 58 | 58 | | | | | | | |
| 26 | 26 | 3364639001-A | 1 | D8260W V | | N | | | 59 | 59 | | | | | | | |
| 27 | 27 | 3364464007-C | 1 | D8260W V | | N | | (RR) | 60 | 60 | | | | | | | |
| 28 | 28 | 3363896005-C | 1 | D8260W V | | N | | (RR) PD MSD | 61 | 61 | | | | | | | |
| 29 | 29 | 3363896016 | 20 | TCLP V | - | - | - | AF | 62 | 62 | | | | | | | |
| 30 | 30 | 3844274 | 1 | D8260W V | | N | | "?" | 63 | 63 | | | | | | | |
| 31 | 31 | 3844275 | 1 | D8260W V | | N | | "?" | 64 | 64 | | | | | | | |
| 32 | 32 | 1801 | 1 | 8260 | - | - | - | | 65 | 65 | | | | | | | |

| | | | |
|---|---|---|---|
| IS: | VOA0258 | Vhew: | VOA0283 |
| SS: | VOA0259 | Vgas: | VOA0286 |
| BFB: | VOA0250 | Qvoa: | VOA0270 |
| AF: | VOA0261 | Qgas: | VOA0285 |

ABBREVIATIONS

| | | | | | |
|---|---|---|---|---|---|
| CO: | Suspect Carryover | SS: | Surrogate Failure | NB: | Needs Batched |
| LS: | Library Search | IS: | ISTD Failure | AAS: | Autosampler Adds Surrogate (Soil) |
| RR: | Rerun same dilution | DNR: | Do not Report | (**): | Sample is an RR, DF, or DL |
| DFx: | Rerun @ less diln x | NU: | Not Used | WP: | Water Blank |
| DLx: | Rerun @ diln x | AF: | Antifoam was used | COMP: | Composite |
| HDSP: | Headspase | CI: | Chlorine Check | Wt: | Weight |

| | |
|---|---|
| 10ul : | HS972 |
| 25ul : | HS866 |
| 100ul : | HS987 |
| 1 mL : | HS927 |
| 5 mL : | HS997 |
| 10 mL : | HS1002 |

# Batch Review Checklist

Rev. 8/07/2022

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **TARGET BATCH:** | 25240625.b | **HORIZON BATCH:** | 0 | | 73573 | **ICAL DATE(S):** | 6/25/2024 |
| **INSTRUMENT:** | MS25 | **METHOD:** | 8260W | 8260C_W | D8260W | **SOP ID:** | 02 8260 |

## DATA REVIEW

| Reviewer 1 | Reviewer 2 | | |
|---|---|---|---|
| PDK | CHS | BFB Reviewed | |
| PDK | CHS | Calibration/Continuing Calibration reviewed | |
| PDK | CHS | Continuing Calibration passes +/- ISTD area - CCAL is zeroed | |
| PDK | CHS | Correct ICAL referenced | |
| PDK | CHS | Correct start/end times/dates for ICAL | |
| PDK | CHS | Any elavated reporting limits due to ICAL? | Yes/No: **N** |
| PDK | CHS | Blank reviewed. | |
| PDK | CHS | LCS/second source reviewed | |
| PDK | CHS | MS/MSD reviewed - List failures on native sample | |
| PDK | CHS | All samples within 12/24-hour tune period? | |
| PDK | CHS | Compound retention times reviewed | |
| PDK | CHS | ISTDs for each sample reviewed | |
| PDK | CHS | Surrogates for each sample reviewed | |
| - | - | Soil weights/volumes correct | |
| PDK | CHS | Samples checked for over-range detections and put back in for reanalysis | |
| PDK | CHS | Spectra and ions have been reviewed for each analyte detected | |
| - | - | Library search has been performed for clients requesting it | |
| PDK | CHS | Container IDs in LIMS batch | |

## REPORTS REVIEW:

| | |
|---|---|
| CHS | Runlog printed to PDF |
| PDK | Batch summary printed to PDF |
| PDK | ICAL Summary printed to PDF |
| PDK | BFB Reports printed to PDF |
| PDK | Calibration/CCAL reports printed to PDF |
| PDK | Reports printed to PDF for all samples (w/ LS if needed) |
| PDK | Logbook complete - All standard information included |
| CHS | Tests scheduled in LIMS |

| Signature | Date | |
|---|---|---|
| PDK | 6/25/2024 | Data 1st Review |
| CHS | 6/27/2024 | Data 2nd Review |
| CHS | 6/27/2024 | Data Reported |
| CHS | 6/27/2024 | Data Approved |

## COMMENTS:

**LL Readback Outliers:** None

**MIDL Readback Outliers:** None

**ICVLCS Outliers (70-130%)** : None

**DOD ICVLCS Outliers (80-120%):** None

Data File: \\GC01\TargetData\Chem2\ms25.i\25_2024\25240627A.b

# GCMS ANALYSIS - VOLATILE ORGANICS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DATE(S): | 6/27/2024 | Analyst: | BST | | SOP ID: | 02 8260 | |
| DATA FILE: | 25240627xx.d | BFB INJ : | 6/27/24 18:40 | INSTRUMENT: MS25 | METHOD(S) | 8260DW | 8260C_W | D8260DW |
| BATCH: | 25240627A.b | 12-HOUR ENDING: | 6/28/24 6:40 | ICAL DATE: 6/25/2024 | LIMS BATCH: | | | 73642 |

| Pos # | Run # | ALS Sample ID (w/ Container ID) | Dilution | Test | pH | HDSP / Wt. | $CL^-$ | Comment | Pos # | Run # | ALS Sample ID (w/ Container ID) | Dilution | Test | pH | HDSP / Wt. | $CL^-$ | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 50 | 1000 | 1 | BFB | - | - | - | | 33 | 83 | | | | | | | |
| 1 | 51 | 1800 | 1 | 8260 | - | - | - | | 34 | 84 | | | | | | | |
| 2 | 52 | 3845609 | 1 | 8260 | - | - | - | | 35 | 85 | | | | | | | |
| 3 | 53 | WP | 1 | 8260 | - | - | - | | 36 | 86 | | | | | | | |
| 4 | 54 | WP | 1 | 8260 | - | - | - | | 37 | 87 | | | | | | | |
| 5 | 55 | 3845608 | 1 | 8260 | - | - | - | | 38 | 88 | | | | | | | |
| 6 | 56 | 3366036009-A | 1 | D8260W V | <2 | N | N | | 39 | 89 | | | | | | | |
| 7 | 57 | 3366027011-A | 1 | D8260W V | <2 | N | N | | 40 | 90 | | | | | | | |
| 8 | 58 | 3366029002-A | 5 | D8260W V | <2 | Y | N | (DL) EXP PREV RUN VIAL | 41 | 91 | | | | | | | |
| 9 | 59 | 3366036001-A | 1 | D8260W V | <2 | N | N | DL5 | 42 | 92 | | | | | | | |
| 10 | 60 | 3366036002-A | 1 | D8260W V | <2 | N | N | MS/D | 43 | 93 | | | | | | | |
| 11 | 61 | 3366036003-A | 1 | D8260W V | <2 | N | N | | 44 | 94 | | | | | | | |
| 12 | 62 | 3366036004-A | 1 | D8260W V | <2 | N | N | | 45 | 95 | | | | | | | |
| 13 | 63 | 3366036005-A | 1 | D8260W V | <2 | N | N | | 46 | 96 | | | | | | | |
| 14 | 64 | 3366036006-A | 1 | D8260W V | <2 | N | N | | 47 | 97 | | | | | | | |
| 15 | 65 | 3366036008-A | 1 | D8260W V | <2 | N | N | | 48 | 98 | | | | | | | |
| 16 | 66 | 3366027001-A | 1 | D8260W V | <2 | N | N | DL50 | 49 | 99 | | | | | | | |
| 17 | 67 | 3366027002-A | 1 | D8260W V | <2 | N | N | CORR1X | 50 | 100 | | | | | | | |
| 18 | 68 | 3366027003-A | 1 | D8260W V | <2 | N | N | | 51 | 101 | | | | | | | |
| 19 | 69 | 3366027004-A | 1 | D8260W V | <2 | N | N | | 52 | 102 | | | | | | | |
| 20 | 70 | 3366027005-A | 1 | D8260W V | <2 | N | N | | 53 | 103 | | | | | | | |
| 21 | 71 | 3366027006-A | 1 | D8260W V | <2 | N | N | | 54 | 104 | | | | | | | |
| 22 | 72 | 3366027007-A | 1 | D8260W V | <2 | N | N | | 55 | 105 | | | | | | | |
| 23 | 73 | 3366027008-A | 1 | D8260W V | <2 | N | N | | 56 | 106 | | | | | | | |
| 24 | 74 | 3366027009-A | 1 | D8260W V | <2 | N | N | | 57 | 107 | | | | | | | |
| 25 | 75 | 3366036007-A | 1 | D8260W V | <2 | N | N | | 58 | 108 | | | | | | | |
| 26 | 76 | 3845610 | 1 | 8260 | <2 | N | N | "B" | 59 | 59 | | | | | | | |
| 26 | 77 | 3845611 | 1 | 8260 | <2 | N | N | "B" | 60 | 60 | | | | | | | |
| 27 | 78 | WP | 1 | 8260 | - | - | - | | 61 | 61 | | | | | | | |
| 28 | 79 | 1801 | 1 | 8260 | - | - | - | | 62 | 62 | | | | | | | |
| 29 | 80 | | | | | | | | 63 | 63 | | | | | | | |
| 30 | 81 | | | | | | | | 64 | 64 | | | | | | | |
| 31 | 82 | | | | | | | | 65 | 65 | | | | | | | |

| | | | |
|---|---|---|---|
| TS: | VOA0258 | Vhew: | VOA0283 |
| SS: | VOA0259 | Vgas: | VOA0286 |
| BFB: | VOA0250 | Qvoa: | VOA0270 |
| AF: | VOA0261 | Qgas: | VOA0285 |

ABBREVIATIONS

| | | |
|---|---|---|
| CO: Suspect Carryover | SS: Surrogate Failure | NB: Needs Batched |
| LS: Library Search | IS: ISTD Failure | AAS: Autosampler Adds Surrogate (Soil) |
| RR: Rerun same dilution | DNR: Do not Report | (**): Sample is an RR, DF, or DL |
| DFx: Rerun @ less diln x | NU: Not Used | WP: Water Blank |
| DLx: Rerun @ diln x | AF: Antifoam was used | COMP: Composite |
| HDSP: Headspase | Cl: Chlorine Check | Wt: Weight |

| | |
|---|---|
| 10ul : | HS972 |
| 25ul : | HS866 |
| 100ul : | HS987 |
| 1 mL : | HS927 |
| 5 mL : | HS997 |
| 10 mL : | HS1002 |

# Batch Review Checklist

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **TARGET BATCH:** | 25240627A.b | **HORIZON BATCH:** | 0 | | 73642 | **ICAL DATE(S):** | 6/25/2024 |
| **INSTRUMENT:** | MS25 | **METHOD:** | 8260DW | 8260C_W | D8260DW | **SOP ID:** | 02 8260 |

## DATA REVIEW

| Reviewer 1 | Reviewer 2 | | |
|---|---|---|---|
| TMP | ILY | BFB Reviewed | |
| TMP | ILY | Calibration/Continuing Calibration reviewed | |
| TMP | ILY | Continuing Calibration passes +/- ISTD area - CCAL is zeroed | |
| TMP | ILY | Correct ICAL referenced | |
| TMP | ILY | Correct start/end times/dates for ICAL | |
| TMP | ILY | Any elavated reporting limits due to ICAL? | Yes/No: **N** |
| TMP | ILY | Blank reviewed. | |
| TMP | ILY | LCS/second source reviewed | |
| TMP | ILY | MS/MSD reviewed - List failures on native sample | |
| TMP | ILY | All samples within 12/24-hour tune period? | |
| TMP | ILY | Compound retention times reviewed | |
| TMP | ILY | ISTDs for each sample reviewed | |
| TMP | ILY | Surrogates for each sample reviewed | |
| - | - | Soil weights/volumes correct | |
| TMP | ILY | Samples checked for over-range detections and put back in for reanalysis | |
| TMP | ILY | Spectra and ions have been reviewed for each analyte detected | |
| - | - | Library search has been performed for clients requesting it | |
| TMP | ILY | Container IDs in LIMS batch | |

## REPORTS REVIEW:

| | |
|---|---|
| ILY | Runlog printed to PDF |
| TMP | Batch summary printed to PDF |
| TMP | ICAL Summary printed to PDF |
| TMP | BFB Reports printed to PDF |
| TMP | Calibration/CCAL reports printed to PDF |
| TMP | Reports printed to PDF for all samples (w/ LS if needed) |
| TMP | Logbook complete - All standard information included |
| ILY | Tests scheduled in LIMS |

| Signature | Date | |
|---|---|---|
| TMP | 6/28/2024 | Data 1st Review |
| ILY | 6/28/2024 | Data 2nd Review |
| ILY | 6/28/2024 | Data Reported |
| ILY | 6/28/2024 | Data Approved |

## COMMENTS:

**LL Readback Outllers:** None

**MIDL Readback Outllers:** None

**ICVLCS Outliers (70-130%)** : None

**DOD ICVLCS Outliers (80-120%):** None

Data File: \\GC01\TargetData\Chem2\ms25.i\25_2024\25240628.b

# GCMS ANALYSIS - VOLATILE ORGANICS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DATE(S): | 6/28/2024 | Analyst: | TMP/ILY | | SOP ID: | 02 8260 | |
| DATA FILE: | 25240628xx.d | BFB INJ : | 6/28/24 9:00 | INSTRUMENT: MS25 | METHOD(S) | D8260DW / 8260C_W | D8260DW |
| BATCH: | 25240628.b | 12-HOUR ENDING: | 6/28/24 21:00 | ICAL DATE: 6/25/2024 | LIMS BATCH: | 73650 | |

| Pos # | Run # | ALS Sample ID (w/ Container ID) | Dilution | Test | pH | HDSP / Wt. | $CL^-$ | Comment | Pos # | Run # | ALS Sample ID (w/ Container ID) | Dilution | Test | pH | HDSP / Wt. | $CL^-$ | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 00 | 1000 | 1 | BFB | - | - | - | | 33 | 33 | | | | | | | |
| 1 | 01 | 1800 | 1 | 8260 | - | - | - | | 34 | 34 | | | | | | | |
| 2 | 02 | 3845976 | 1 | 8260 | - | - | - | AF | 35 | 35 | | | | | | | |
| 3 | 03 | WP | 1 | 8260 | - | - | - | | 36 | 36 | | | | | | | |
| 4 | - | WP | 1 | 8260 | - | - | - | skipped by AS | 37 | 37 | | | | | | | |
| 5 | 04 | 3845975 | 1 | 8260 | - | - | - | AF | 38 | 38 | | | | | | | |
| 6 | 05 | 3366030005-A | 1 | D8260W V | <2 | N | N | | 39 | 39 | | | | | | | |
| 7 | 06 | 3366026023-A | 1 | D8260W V | <2 | N | N | | 40 | 40 | | | | | | | |
| 8 | 07 | 3366028005-B | 1 | D8260W V | <2 | N | N | (CORR) | 41 | 41 | LAST VIAL | | | | | | |
| 9 | 08 | 3366028008-B | 1 | D8260W V | <2 | N | N | (CORR) | 42 | 42 | LAST VIAL | | | | | | |
| 10 | 09 | 3366027002-B | 1 | D8260W V | <2 | N | N | (CORR) | 43 | 43 | | | | | | | |
| 11 | 11 | 3366026001-A | 1 | D8260W V | <2 | N | N | | 44 | 44 | fixed AS error here | | | | | | |
| 12 | 12 | 3366026002-A | 1 | D8260W V | <2 | N | N | DL20 | 45 | 45 | | | | | | | |
| 13 | 13 | 3366026003-A | 1 | D8260W V | <2 | N | N | CORR1X | 46 | 46 | | | | | | | |
| 14 | 14 | 3366026005-A | 1 | D8260W V | <2 | N | N | DL5 | 47 | 47 | | | | | | | |
| 15 | 15 | 3366026006-A | 1 | D8260W V | <2 | N | N | DL10 | 48 | 48 | | | | | | | |
| 16 | 16 | 3366026007-A | 1 | D8260W V | <2 | N | N | DL100 | 49 | 49 | | | | | | | |
| 17 | 17 | 3366026008-A | 1 | D8260W V | <2 | N | N | DL20 | 50 | 50 | | | | | | | |
| 18 | 18 | 3366030001-A | 1 | D8260W V | <2 | N | N | PD MSD CORR1X | 51 | 51 | | | | | | | |
| 19 | 19 | 3366030002-A | 1 | D8260W V | <2 | N | N | CORR1X | 52 | 52 | | | | | | | |
| 20 | 20 | 3366030003-A | 1 | D8260W V | <2 | N | N | CORR1X | 53 | 53 | | | | | | | |
| 21 | 21 | 3366030004-A | 1 | D8260W V | <2 | N | N | CORR1X | 54 | 54 | | | | | | | |
| 22 | 22 | 3366036001-B | 5 | D8260W V | <2 | N | N | (DL) | 55 | 55 | | | | | | | |
| 23 | 23 | 3366028004-B | 10 | D8260W V | <2 | N | N | (DL) | 56 | 56 | | | | | | | |
| 24 | 24 | 3366028007-B | 10 | D8260W V | <2 | N | N | (DL) | 57 | 57 | | | | | | | |
| 25 | 25 | 3366027001-B | 50 | D8260W V | <2 | N | N | (DL) | 58 | 58 | | | | | | | |
| 26 | 26 | 3845977 | 1 | 8260 | <2 | N | N | "B" | 59 | 59 | CANCELLED | | | | | | parent sample needs rerun |
| 26 | 27 | 3845978 | 1 | 8260 | <2 | N | N | "B" | 60 | 60 | CANCELLED | | | | | | parent sample needs rerun |
| 27 | 28 | WP | 1 | 8260 | - | - | - | | 61 | 61 | | | | | | | |
| 28 | 29 | 1801 | 1 | 8260 | - | - | - | | 62 | 62 | | | | | | | |
| 29 | 30 | | | | | | | | 63 | 63 | | | | | | | |
| 30 | 31 | | | | | | | | 64 | 64 | | | | | | | |
| 31 | 32 | | | | | | | | 65 | 65 | | | | | | | |

| | | | |
|---|---|---|---|
| IS: | VOA0258 | Vhew: | VOA0283 |
| SS: | VOA0259 | Vgas: | VOA0286 |
| BFB: | VOA0250 | Qvoa: | VOA0270 |
| AF: | VOA0261 | Qgas: | VOA0285 |

ABBREVIATIONS

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| CO: Suspect Carryover | SS: Surrogate Failure | NB: Needs Batched |
| LS: Library Search | IS: ISTD Failure | AAS: Autosampler Adds Surrogate (Soil) |
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| | |
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| 25ul : | HS866 |
| 100ul : | HS987 |
| 1 mL : | HS927 |
| 5 mL : | HS997 |
| 10 mL : | HS1002 |

# Batch Review Checklist

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **TARGET BATCH:** | 25240628.b | **HORIZON BATCH:** | 73650 | | | **ICAL DATE(S):** | 6/25/2024 |
| **INSTRUMENT:** | MS25 | **METHOD:** | D8260DW | 8260C_W | D8260DW | **SOP ID:** | 02 8260 |

## DATA REVIEW

| Reviewer 1 | Reviewer 2 | | |
|---|---|---|---|
| TMP | VLM | BFB Reviewed | |
| TMP | VLM | Calibration/Continuing Calibration reviewed | |
| TMP | VLM | Continuing Calibration passes +/- ISTD area - CCAL is zeroed | |
| TMP | VLM | Correct ICAL referenced | |
| TMP | VLM | Correct start/end times/dates for ICAL | |
| TMP | VLM | Any elavated reporting limits due to ICAL? | Yes/No: **N** |
| TMP | VLM | Blank reviewed. | |
| TMP | VLM | LCS/second source reviewed | |
| TMP | VLM | MS/MSD reviewed - List failures on native sample | |
| TMP | VLM | All samples within 12/24-hour tune period? | |
| TMP | VLM | Compound retention times reviewed | |
| TMP | VLM | ISTDs for each sample reviewed | |
| TMP | VLM | Surrogates for each sample reviewed | |
| - | - | Soil weights/volumes correct | |
| TMP | VLM | Samples checked for over-range detections and put back in for reanalysis | |
| TMP | VLM | Spectra and ions have been reviewed for each analyte detected | |
| - | - | Library search has been performed for clients requesting it | |
| TMP | VLM | Container IDs in LIMS batch | |

## REPORTS REVIEW:

| | |
|---|---|
| VLM | Runlog printed to PDF |
| TMP | Batch summary printed to PDF |
| TMP | ICAL Summary printed to PDF |
| TMP | BFB Reports printed to PDF |
| TMP | Calibration/CCAL reports printed to PDF |
| TMP | Reports printed to PDF for all samples (w/ LS if needed) |
| TMP | Logbook complete - All standard information included |
| VLM | Tests scheduled in LIMS |

| Signature | Date | |
|---|---|---|
| TMP | 6/29/2024 | Data 1st Review |
| VLM | 6/30/2024 | Data 2nd Review |
| VLM | 6/30/2024 | Data Reported |
| VLM | 6/30/2024 | Data Approved |

## COMMENTS:

**LL Readback Outllers:** None

**MIDL Readback Outllers:** None

**ICVLCS Outliers (70-130%)** : None

**DOD ICVLCS Outliers (80-120%):** None

right solutions.
right partner.

# Raw Data 23240625

## Volatiles by EPA 8260D

Workorder

**3366027**

Client

ALS Houston

Project

AHH131|HS24061196

07/09/2024

www.alsglobal.com

Data File: 2324062500.D Page 1
Report Date: 25-Jun-2024 22:23

ALS Environmental Services

BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062500.D
Lab Smp Id: 1000
Inj Date : 25-JUN-2024 10:30
Operator : ILY Inst ID: ms23.i
Smp Info : 1000
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\bfb288.m
Meth Date : 13-Sep-2023 15:55 bsimms Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAMDTW7026

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vf | 1.000 | Volumetric correction factor |
| Vi | 1.000 | Injection Volume |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | REL RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 bfb | | | | | | CAS #: 460-00-4 | | |
| 7.249 | 7.159 | ( 0.000) | 95 | 105920 | | | 0.00- 100.00 | 100.00 |
| 7.249 | 8.129 | ( 0.000) | 50 | 19816 | | | 15.00- 40.00 | 18.71 |
| 7.249 | 8.129 | ( 0.000) | 75 | 54152 | | | 30.00- 60.00 | 51.13 |
| 7.249 | 8.129 | ( 0.000) | 96 | 6873 | | | 5.00- 9.00 | 6.49 |
| 7.249 | 8.129 | ( 0.000) | 173 | 580 | | | 0.00- 2.00 | 0.55 |
| 7.249 | 8.129 | ( 0.000) | 174 | 105112 | | | 50.00- 0.00 | 99.24 |
| 7.249 | 8.129 | ( 0.000) | 175 | 7930 | | | 5.00- 9.00 | 7.54 |
| 7.249 | 8.129 | ( 0.000) | 176 | 105000 | | | 95.00- 101.00 | 99.89 |
| 7.249 | 8.129 | ( 0.000) | 177 | 6511 | | | 5.00- 9.00 | 6.20 |

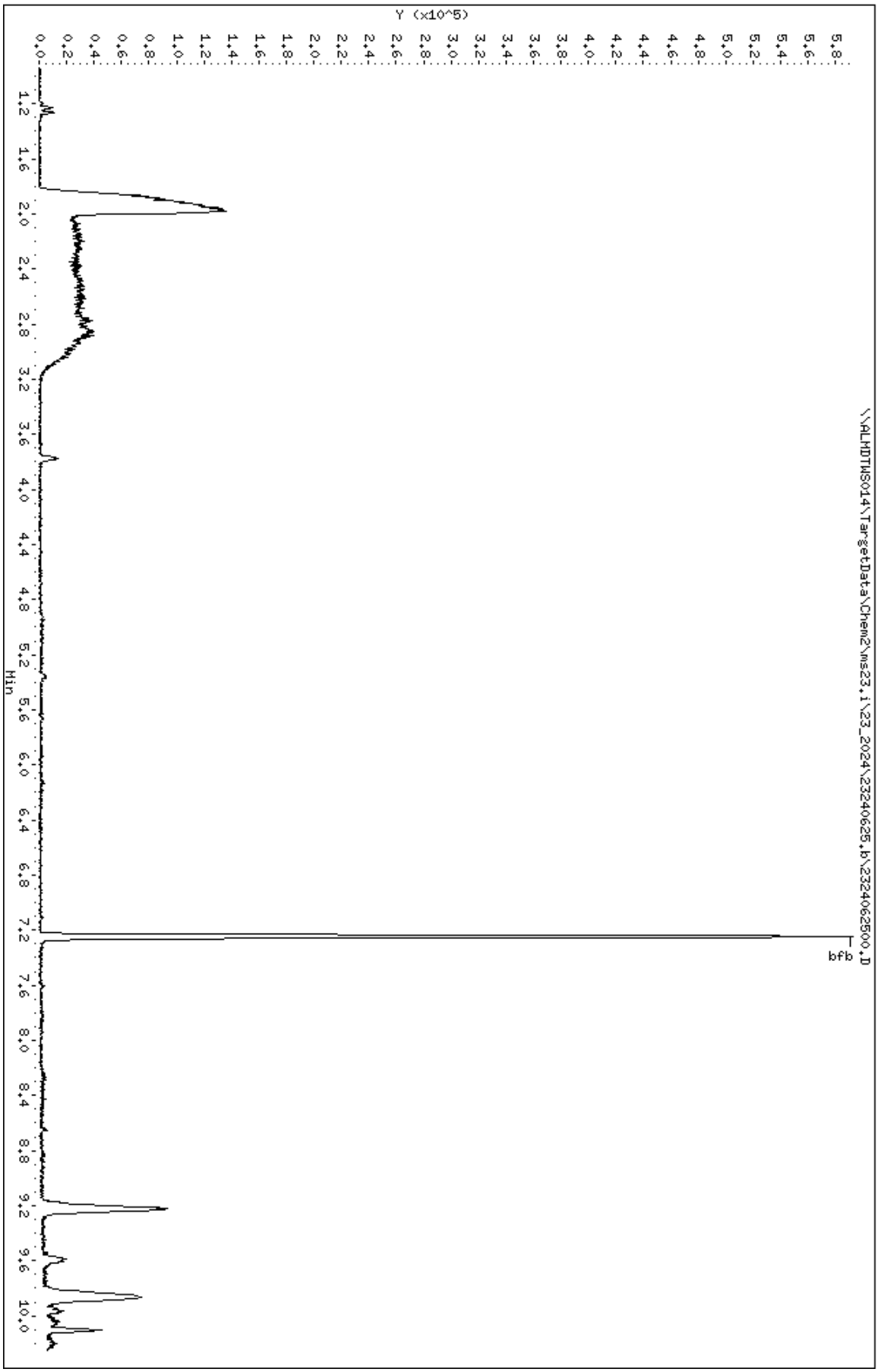
| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 18.71 |
| 75 | 30.00 - 60.00% of mass 95 | 51.13 |
| 96 | 5.00 - 9.00% of mass 95 | 6.49 |
| 173 | Less than 2.00% of mass 174 | 0.55 ( 0.55) |
| 174 | Greater than 50.00% of mass 95 | 99.24 |
| 175 | 5.00 - 9.00% of mass 174 | 7.49 ( 7.54) |
| 176 | 95.00 - 101.00% of mass 174 | 99.13 ( 99.89) |
| 177 | 5.00 - 9.00% of mass 176 | 6.15 ( 6.20) |

Data File: 2324062500.D
Spectrum: Avg. Scans 2179-2181 ( 7.25), Background Scan 2166
Location of Maximum: 95.00
Number of points: 84

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 1415 | 64.00 | 431 | 93.00 | 4732 | 142.00 | 308 |
| 37.00 | 4116 | 65.00 | 98 | 94.00 | 12943 | 143.00 | 1585 |
| 38.00 | 3986 | 67.00 | 434 | 95.00 | 105920 | 147.00 | 153 |
| 39.00 | 1561 | 68.00 | 9182 | 96.00 | 6873 | 148.00 | 295 |
| 40.00 | 340 | 69.00 | 10312 | 97.00 | 194 | 149.00 | 101 |
| 42.00 | 56 | 70.00 | 557 | 104.00 | 464 | 155.00 | 474 |
| 44.00 | 108 | 72.00 | 1085 | 105.00 | 285 | 157.00 | 333 |
| 45.00 | 856 | 73.00 | 4810 | 106.00 | 441 | 161.00 | 261 |
| 47.00 | 943 | 74.00 | 17232 | 111.00 | 108 | 171.00 | 179 |
| 48.00 | 909 | 75.00 | 54152 | 112.00 | 59 | 172.00 | 199 |
| 49.00 | 3617 | 76.00 | 4458 | 115.00 | 58 | 173.00 | 580 |
| 50.00 | 19816 | 77.00 | 547 | 116.00 | 570 | 174.00 | 105112 |
| 51.00 | 5102 | 78.00 | 213 | 117.00 | 664 | 175.00 | 7930 |
| 52.00 | 268 | 79.00 | 2973 | 118.00 | 396 | 176.00 | 105000 |
| 55.00 | 278 | 80.00 | 819 | 119.00 | 539 | 177.00 | 6511 |
| 56.00 | 1705 | 81.00 | 2859 | 128.00 | 488 | 178.00 | 156 |
| 57.00 | 2988 | 82.00 | 658 | 129.00 | 117 | 207.00 | 56 |
| 58.00 | 69 | 86.00 | 99 | 130.00 | 538 | 211.00 | 59 |
| 60.00 | 1040 | 87.00 | 3346 | 131.00 | 74 | | |
| 61.00 | 5266 | 88.00 | 2666 | 135.00 | 261 | | |
| 62.00 | 4747 | 91.00 | 801 | 140.00 | 52 | | |
| 63.00 | 4311 | 92.00 | 3199 | 141.00 | 986 | | |

Data File: \\ALMDTMS014\TargetData\Chem2\ms23_i\23_2024\23240625_b\23240625_b_2500.D
Date : 25-JUN-2024 10:30
Client ID:
Sample Info: 1000
Volume Injected (uL): 1.0
Column phase: DB624

Instrument: ms23_i
Operator: ILY
Column diameter: 0.53



Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062500.D
Inj Date  : 25-JUN-2024 10:30
InstruID  : ms23.i
LabSampID : 1000

NO MANUAL INTEGRATIONS

Data File: 2324062503.D Page 1
Report Date: 27-Jun-2024 16:06

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062503.D
Lab Smp Id: VSTD00.5
Inj Date : 25-JUN-2024 11:40
Operator : ILY Inst ID: ms23.i
Smp Info : VSTD00.5;;1;1;8;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\23-8260b09.m
Meth Date : 25-Jun-2024 20:25 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 12:20 Cal File: 2324062505.D
Als bottle: 3 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Dichlorodifluoromethane | 85 | 1.631 | 1.632 | (0.375) | 7984 | 0.50000 | 0.566759(a) | |
| 2 | Chloromethane | 50 | 1.785 | 1.780 | (0.410) | 5706 | 0.50000 | 0.662973(a) | |
| 3 | Vinyl Chloride | 62 | 1.852 | 1.849 | (0.425) | 4846 | 0.50000 | 0.571568(a) | |
| 4 | Bromomethane | 94 | 2.072 | 2.072 | (0.476) | 4253 | 0.50000 | 0.675701(a) | |
| 5 | Chloroethane | 64 | 2.158 | 2.156 | (0.496) | 2749 | 0.50000 | 0.589255(a) | |
| 6 | Pentane | 41 | 2.245 | 2.252 | (0.516) | 3288 | 0.50000 | 0.576441(a) | |
| 7 | Trichlorofluoromethane | 101 | 2.251 | 2.255 | (0.517) | 10292 | 0.50000 | 0.570179(a) | |
| 8 | Dichlorofluoromethane | 67 | 2.283 | 2.278 | (0.524) | 6172 | 0.50000 | 0.405057(a) | |
| 9 | Ethyl Ether | 74 | 2.433 | 2.446 | (0.559) | 1909 | 0.50000 | 0.401290(aQM) | SP |
| 10 | 1,1-Dichloroethene | 61 | 2.578 | 2.582 | (0.592) | 4820 | 0.50000 | 0.447921(a) | |
| 11 | Freon 113 | 101 | 2.596 | 2.593 | (0.596) | 3228 | 0.50000 | 0.440996(aM) | SP |
| 12 | Carbon Disulfide | 76 | 2.616 | 2.619 | (0.601) | 9551 | 0.50000 | 0.457584(a) | |
| 13 | Iodomethane | 127 | 2.677 | 2.686 | (0.615) | 1590 | 0.50000 | 0.411651(a) | |
| 14 | Acrolein | 56 | 2.761 | 2.767 | (0.634) | 2956 | 2.50000 | 2.18466 | |
| 15 | Isopropyl Alcohol | 45 | 2.824 | 2.819 | (0.648) | 2589 | 2.50000 | 2.63223 | |
| 16 | 3-Chloro-1-propene | 41 | 2.850 | 2.848 | (0.654) | 2843 | 0.50000 | 0.534681(aQ) | |
| 17 | Methylene Chloride | 84 | 2.914 | 2.909 | (0.669) | 3312 | 0.50000 | 0.424730(a) | |
| 18 | Acetone | 58 | 2.926 | 2.923 | (0.672) | 1614 | 2.50000 | 2.24527(Q) | |
| 19 | Methyl acetate | 74 | 2.992 | 2.999 | (0.687) | 1166 | 0.50000 | 0.644314(aQ) | |
| 20 | trans-1,2-Dichloroethene | 61 | 3.001 | 3.005 | (0.689) | 3984 | 0.50000 | 0.403835(a) | |
| 21 | Hexane | 57 | 3.047 | 3.042 | (0.700) | 9371 | 0.50000 | 0.640503(a) | |
| 22 | Methyl t-Butyl Ether | 73 | 3.047 | 3.051 | (0.700) | 10800 | 0.50000 | 0.410125(aQ) | |

Data File: 2324062503.D Page 2
Report Date: 27-Jun-2024 16:06

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 23 tert.- Butyl Alcohol | 59 | 3.065 | 3.065 | (0.704) | 2506 | 2.50000 | 2.28437 | |
| | 24 Acetonitrile | 41 | 3.180 | 3.187 | (0.730) | 1874 | 2.50000 | 2.26355(QMH) | H |
| | 25 Diisopropyl ether | 45 | 3.253 | 3.245 | (0.747) | 7426 | 0.50000 | 0.407682(a) | |
| | 26 Chloroprene | 53 | 3.337 | 3.329 | (0.766) | 3948 | 0.50000 | 0.554119(a) | |
| | 27 1,1-Dichloroethane | 63 | 3.348 | 3.346 | (0.769) | 4691 | 0.50000 | 0.535247(a) | |
| | 28 Acrylonitrile | 53 | 3.360 | 3.358 | (0.771) | 6986 | 2.50000 | 3.12861(M) | MP |
| | 29 Ethyl tert-butyl ether | 59 | 3.450 | 3.448 | (0.792) | 8862 | 0.50000 | 0.553770(a) | |
| | 30 n-Propanol | 41 | 3.447 | 3.448 | (0.791) | 1749 | 5.00000 | 4.10298(Q) | |
| | 31 Vinyl Acetate | 86 | 3.450 | 3.442 | (0.792) | 642 | 0.50000 | 0.581514(aQ) | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.644 | 3.641 | (0.837) | 4582 | 0.50000 | 0.448891(a) | |
| | 33 2,2-Dichloropropane | 77 | 3.705 | 3.714 | (0.850) | 5500 | 0.50000 | 0.408257(aM) | H |
| | 34 Bromochloromethane | 128 | 3.751 | 3.754 | (0.861) | 2305 | 0.50000 | 0.467725(a) | |
| | 35 Cyclohexane | 84 | 3.786 | 3.789 | (0.869) | 4648 | 0.50000 | 0.405997(a) | |
| | 36 Chloroform | 83 | 3.780 | 3.775 | (0.868) | 7740 | 0.50000 | 0.452063(a) | |
| | 37 Ethyl Acetate | 43 | 3.815 | 3.818 | (0.876) | 3047 | 0.50000 | 0.404922(a) | |
| | 38 Methyl acrylate | 55 | 3.835 | 3.830 | (0.880) | 2535 | 0.50000 | 0.584271(a) | |
| | 39 Carbon Tetrachloride | 117 | 3.893 | 3.893 | (0.894) | 5500 | 0.50000 | 0.581089(aM) | MP |
| $ | 41 Dibromofluoromethane | 113 | 3.887 | 3.885 | (0.892) | 274045 | 30.0000 | 29.0391 | |
| | 40 Tetrahydrofuran | 42 | 3.887 | 3.888 | (0.892) | 4020 | 2.50000 | 2.02145(Q) | |
| | 42 1,1,1-Trichloroethane | 97 | 3.927 | 3.922 | (0.902) | 6124 | 0.50000 | 0.391332(a) | |
| | 43 2-Butanone | 72 | 3.939 | 3.951 | (0.904) | 2382 | 2.50000 | 2.15357 | |
| | 44 1,1-Dichloropropene | 75 | 3.991 | 3.986 | (0.916) | 4351 | 0.50000 | 0.390595(a) | |
| | 45 1-Chlorobutane | 41 | 4.003 | 4.003 | (0.919) | 3536 | 0.50000 | 0.488674(aQ) | |
| | 46 Heptane | 71 | 4.084 | 4.078 | (0.938) | 2616 | 0.50000 | 0.508249(a) | |
| | 47 Benzene | 78 | 4.133 | 4.128 | (0.949) | 11869 | 0.50000 | 0.405992(a) | |
| | 48 Propionitrile | 54 | 4.119 | 4.105 | (0.946) | 2310 | 2.50000 | 3.03872 | |
| | 49 Methacrylonitrile | 67 | 4.124 | 4.131 | (0.947) | 1599 | 0.50000 | 0.447897(aQM) | H |
| | 50 tert-Amyl methyl ether | 73 | 4.165 | 4.166 | (0.956) | 9267 | 0.50000 | 0.564841(a) | |
| | 54 Isobutyl alcohol | 42 | 4.159 | 4.168 | (0.955) | 787 | 5.00000 | 3.82299(QM) | H |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.200 | 4.197 | (0.964) | 365647 | 30.0000 | 30.2656 | |
| | 52 1,2-Dichloroethane | 62 | 4.231 | 4.235 | (0.971) | 6201 | 0.50000 | 0.449557(a) | |
| | 53 tert-Amyl Alcohol | 59 | 4.231 | 4.247 | (0.971) | 1679 | 2.50000 | 2.05382(Q) | |
| * | 55 Fluorobenzene | 96 | 4.356 | 4.357 | (1.000) | 960323 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.353 | 4.357 | (0.999) | 35179 | 0.50000 | 0.570592(aQ) | |
| | 57 Trichloroethene | 95 | 4.452 | 4.458 | (1.022) | 3984 | 0.50000 | 0.444864(aM) | IH |
| | 58 Methyl cyclohexane | 83 | 4.475 | 4.470 | (0.703) | 5391 | 0.50000 | 0.451857(a) | |
| | 59 tert-Amyl Ethylether | 59 | 4.564 | 4.562 | (1.048) | 7382 | 0.50000 | 0.417671(a) | |
| | 60 Dibromomethane | 93 | 4.715 | 4.716 | (1.082) | 2149 | 0.50000 | 0.373169(a) | |
| | 61 1,2-Dichloropropane | 63 | 4.770 | 4.768 | (1.095) | 2459 | 0.50000 | 0.385719(aQM) | H |
| | 62 Bromodichloromethane | 83 | 4.787 | 4.791 | (1.099) | 4968 | 0.50000 | 0.404585(a) | |
| | 63 Methyl methacrylate | 41 | 4.854 | 4.855 | (1.114) | 2755 | 0.50000 | 0.603811(aM) | IH |
| | 64 1,4-Dioxane | 88 | 4.909 | 4.907 | (1.127) | 1249 | 12.5000 | 10.0534 | |
| | 65 2-Chloroethylvinyl ether | 63 | 5.117 | 5.121 | (1.175) | 204 | 0.50000 | 2.79069(M) | IH |
| | 66 cis-1,3-Dichloropropene | 75 | 5.184 | 5.182 | (0.814) | 4347 | 0.50000 | 0.587701(a) | |
| | 67 Octane | 85 | 5.199 | 5.193 | (0.817) | 2040 | 0.50000 | 0.437237(aQ) | |
| $ | 68 Toluene-d8 | 98 | 5.306 | 5.309 | (0.834) | 1006145 | 30.0000 | 30.1826 | |
| | 69 Toluene | 92 | 5.340 | 5.344 | (0.839) | 9491 | 0.50000 | 0.463789(a) | |
| | 70 Chloroacetonitrile | 75 | 5.378 | 5.376 | (0.845) | 640 | 2.50000 | 3.07222(QM) | H |
| | 71 2-Nitropropane | 41 | 5.471 | 5.474 | (0.859) | 5576 | 2.50000 | 3.17123 | |
| | 72 1,1-Dichloro-2-Propanone | 63 | 5.500 | 5.503 | (0.864) | 694 | 2.50000 | 2.40674(QM) | H |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.558 | 5.555 | (0.873) | 12653 | 2.50000 | 2.84772 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.595 | 5.587 | (0.879) | 5552 | 0.50000 | 0.592882(a) | |
| | 74 Tetrachloroethene | 164 | 5.610 | 5.605 | (0.881) | 4104 | 0.50000 | 0.461320(a) | |
| | 76 Ethyl Methacrylate | 69 | 5.670 | 5.668 | (0.891) | 3894 | 0.50000 | 0.608918(aM) | H |

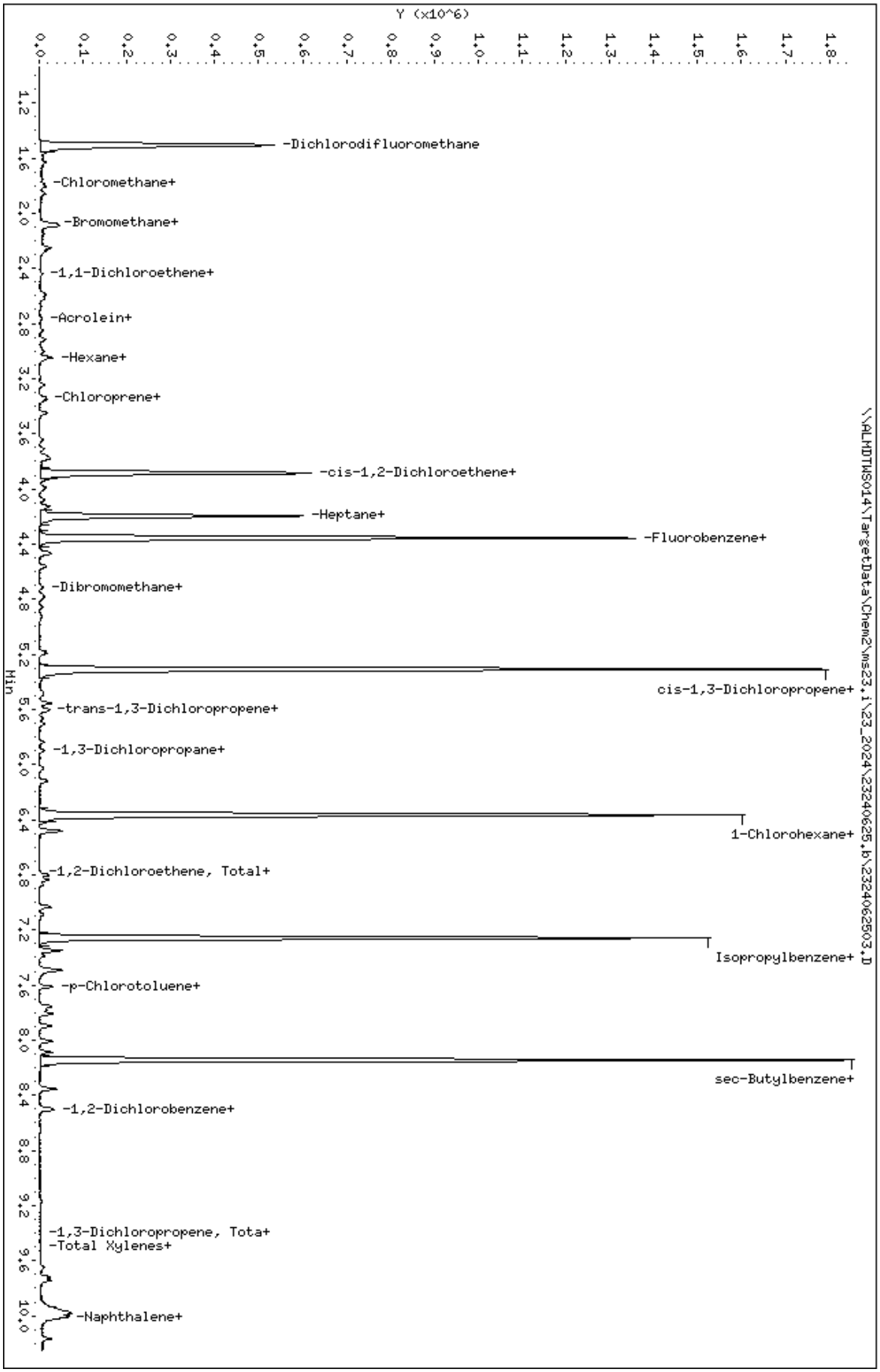
Data File: 2324062503.D
Report Date: 27-Jun-2024 16:06



| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 77 1,1,2-Trichloroethane | 83 | 5.708 | 5.706 | (0.897) | 2367 | 0.50000 | 0.389788(a) | |
| | 78 Chlorodibromomethane | 129 | 5.836 | 5.839 | (0.917) | 3928 | 0.50000 | 0.581643(a) | |
| | 79 1,3-Dichloropropane | 76 | 5.902 | 5.897 | (0.927) | 4968 | 0.50000 | 0.389986(a) | |
| | 80 1,2-Dibromoethane | 107 | 6.021 | 6.019 | (0.946) | 3866 | 0.50000 | 0.434867(a) | |
| | 81 2-Hexanone | 43 | 6.113 | 6.123 | (0.960) | 9467 | 2.50000 | 3.05873 | |
| | 82 1-Chlorohexane | 91 | 6.336 | 6.331 | (0.995) | 5005 | 0.50000 | 0.468501(aQ) | |
| * | 83 Chlorobenzene-d5 | 82 | 6.365 | 6.363 | (1.000) | 418221 | 30.0000 | | |
| | 84 Chlorobenzene | 112 | 6.377 | 6.378 | (1.002) | 9587 | 0.50000 | 0.407847(a) | |
| | 85 Ethylbenzene | 106 | 6.383 | 6.378 | (1.003) | 5236 | 0.50000 | 0.422727(aQ) | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | 6.412 | 6.418 | (1.007) | 3804 | 0.50000 | 0.394489(a) | |
| | 87 mp-Xylene | 106 | 6.481 | 6.482 | (1.018) | 12867 | 1.00000 | 0.859206(a) | |
| | 88 o-Xylene | 106 | 6.797 | 6.797 | (1.068) | 6028 | 0.50000 | 0.409488(a) | |
| | 89 Styrene | 104 | 6.837 | 6.838 | (0.839) | 8632 | 0.50000 | 0.551074(aM) | MP |
| | 90 Bromoform | 173 | 6.875 | 6.870 | (0.844) | 3134 | 0.50000 | 0.630082(aM) | H |
| | 91 Isopropylbenzene | 105 | 7.031 | 7.035 | (0.863) | 15455 | 0.50000 | 0.544337(a) | |
| M | 100 1,2-Dichloroethene, Total | 61 | | | | 8566 | 1.00000 | 0.852726(a) | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.257 | 7.258 | (0.891) | 401186 | 30.0000 | 30.1431 | |
| | 93 Bromobenzene | 156 | 7.350 | 7.350 | (0.902) | 5530 | 0.50000 | 0.483898(aQ) | |
| | 94 n-Propylbenzene | 120 | 7.350 | 7.348 | (0.902) | 5410 | 0.50000 | 0.499948(aQ) | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | 7.382 | 7.388 | (0.906) | 4025 | 0.50000 | 0.425892(a) | |
| | 96 o-Chlorotoluene | 91 | 7.486 | 7.489 | (0.919) | 13195 | 0.50000 | 0.447099(a) | |
| | 97 1,3,5-Trimethylbenzene | 105 | 7.492 | 7.495 | (0.920) | 13128 | 0.50000 | 0.411479(a) | |
| | 98 1,2,3-Trichloropropane | 110 | 7.506 | 7.507 | (0.921) | 1657 | 0.50000 | 0.413325(a) | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | 7.526 | 7.524 | (0.924) | 917 | 0.50000 | 0.577727(aQM) | H |
| | 101 p-Chlorotoluene | 91 | 7.613 | 7.614 | (0.935) | 12106 | 0.50000 | 0.443655(a) | |
| | 102 tert-Butylbenzene | 134 | 7.755 | 7.756 | (0.952) | 3483 | 0.50000 | 0.435983(aQ) | |
| | 103 Pentachloroethane | 117 | 7.778 | 7.776 | (0.955) | 2432 | 0.50000 | 0.536780(aQM) | H |
| | 104 1,2,4-Trimethylbenzene | 105 | 7.804 | 7.805 | (0.958) | 13966 | 0.50000 | 0.431008(a) | |
| | 105 sec-Butylbenzene | 105 | 7.894 | 7.895 | (0.969) | 17435 | 0.50000 | 0.458955(a) | |
| | 106 p-Isopropyltoluene | 134 | 8.004 | 8.007 | (0.983) | 4026 | 0.50000 | 0.438758(a) | |
| | 107 1,3-Dichlorobenzene | 146 | 8.085 | 8.089 | (0.993) | 8407 | 0.50000 | 0.417504(a) | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 8.146 | 8.141 | (1.000) | 460058 | 30.0000 | (Q) | |
| | 109 1,4-Dichlorobenzene | 146 | 8.158 | 8.157 | (1.001) | 9983 | 0.50000 | 0.483639(aQ) | |
| | 110 Benzyl Chloride | 126 | 8.354 | 8.352 | (1.026) | 1342 | 0.50000 | 0.607994(aQ) | |
| | 111 n-Butylbenzene | 134 | 8.346 | 8.352 | (1.025) | 3996 | 0.50000 | 0.470548(aQ) | |
| | 112 Hexachloroethane | 117 | 8.499 | 8.494 | (1.043) | 2789 | 0.50000 | 0.608781(aM) | IH |
| | 113 1,2-Dichlorobenzene | 146 | 8.505 | 8.509 | (1.044) | 9110 | 0.50000 | 0.466035(a) | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | 9.168 | 9.172 | (1.125) | 1256 | 0.50000 | 0.481814(aQ) | |
| | 115 Nitrobenzene | 77 | 9.640 | 9.646 | (1.183) | 2594 | 5.00000 | 21.9154 | |
| | 116 Hexachlorobutadiene | 225 | 9.721 | 9.722 | (1.193) | 3389 | 0.50000 | 0.503992(a) | |
| M | 120 1,3-Dichloropropene, Total | 75 | | | | 9899 | 1.00000 | 1.18058 | |
| | 117 1,2,4-Trichlorobenzene | 180 | 9.741 | 9.745 | (1.196) | 6416 | 0.50000 | 0.474366(a) | |
| M | 121 Total Xylenes | 106 | | | | 18895 | 1.50000 | 1.26869 | |
| | 118 Naphthalene | 128 | 10.011 | 10.014 | (1.229) | 14513 | 0.50000 | 0.599874(a) | |
| | 119 1,2,3-Trichlorobenzene | 180 | 10.170 | 10.168 | (1.248) | 6334 | 0.50000 | 0.473255(a) | |

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.




Data File: \\ALMDTWS014\TargetData\Chem2\ms23,i\23_2024\23240625,b\2324062503,D
Date : 25-JUN-2024 11:40
Client ID:
Sample Info: VSTD00,5;;1;1;8;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms23,i
Operator: ILY
Column diameter: 0.25

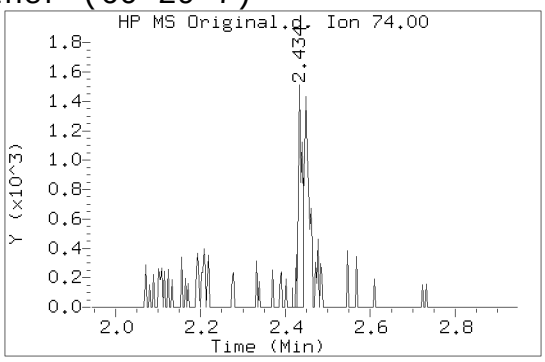
Page 1

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Inj Date : 25-JUN-2024 11:40
InstruID : ms23.i
LabSampID : VSTD00.5

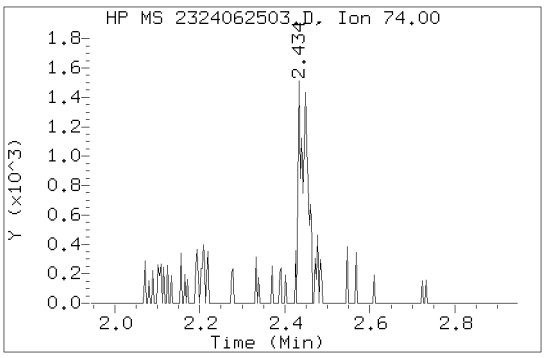
## Ethyl Ether (60-29-7)

Reason Code: SP

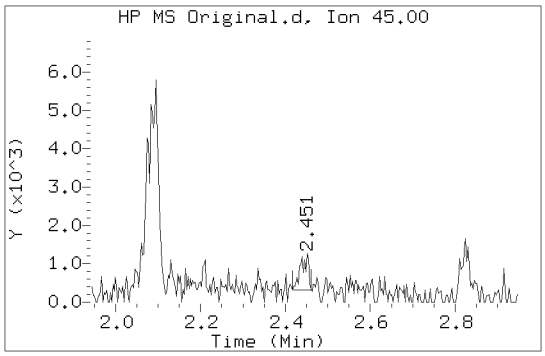
**BEFORE**
MASS
74
AREA
932
HEIGHT
1512
25-Jun-2024
20:00



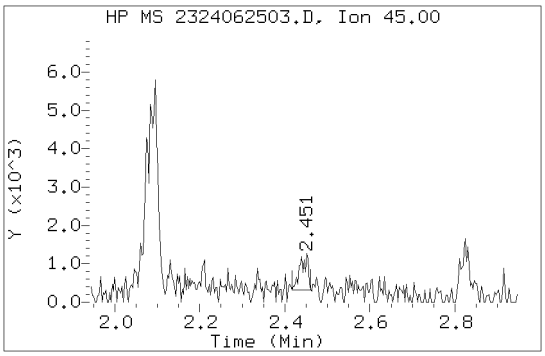

**AFTER**
MASS
74
AREA
1909
HEIGHT
1512
27-Jun-2024
16:06



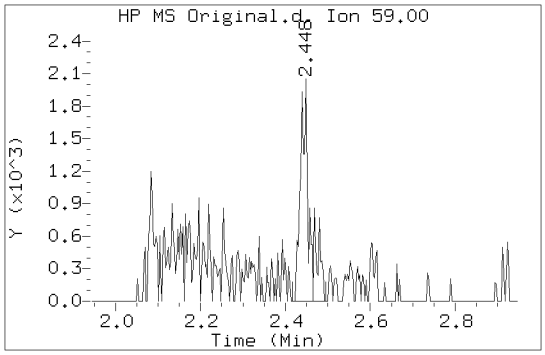

**BEFORE**
MASS
45
AREA
1191
HEIGHT
967
25-Jun-2024
20:00



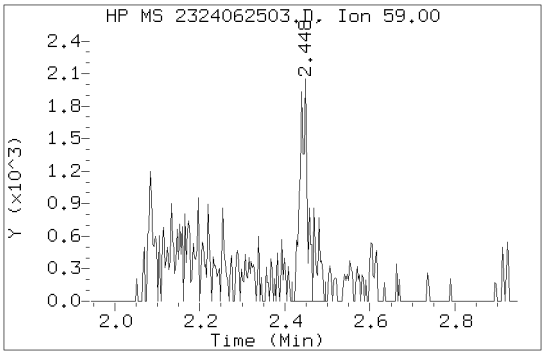

**AFTER**
MASS
45
AREA
1191
HEIGHT
967
27-Jun-2024
16:06




**BEFORE**
MASS
59
AREA
3009
HEIGHT
2052
25-Jun-2024
20:00



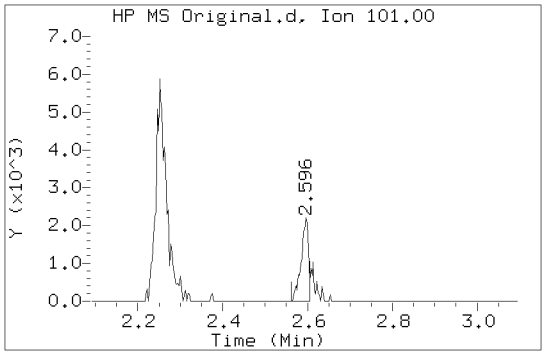

**AFTER**
MASS
59
AREA
3009
HEIGHT
2052
27-Jun-2024
16:06



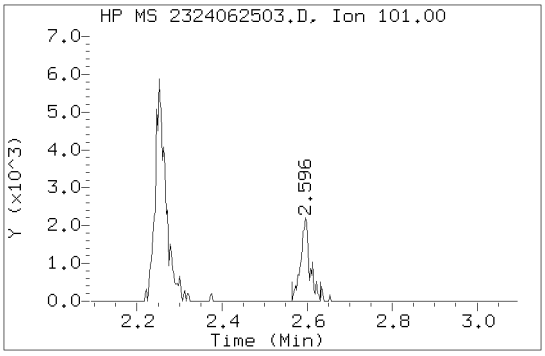

## Freon 113 (76-13-1)

Reason Code: SP

**BEFORE**
MASS
101
AREA
2536
HEIGHT
2211
25-Jun-2024
20:00




**AFTER**
MASS
101
AREA
3228
HEIGHT
2211
27-Jun-2024
16:06

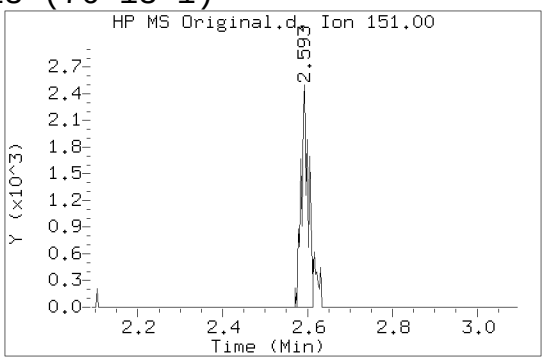


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Inj Date : 25-JUN-2024 11:40
InstruID : ms23.i
LabSampID : VSTD00.5

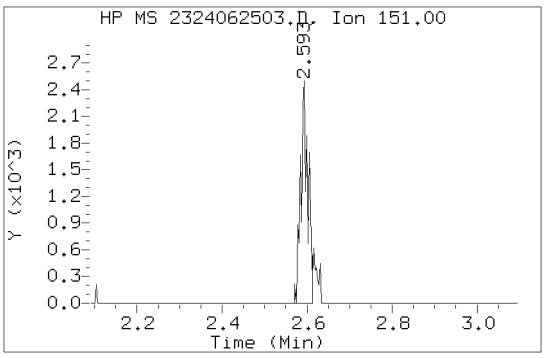
## Freon 113 (76-13-1)

Reason Code: SP

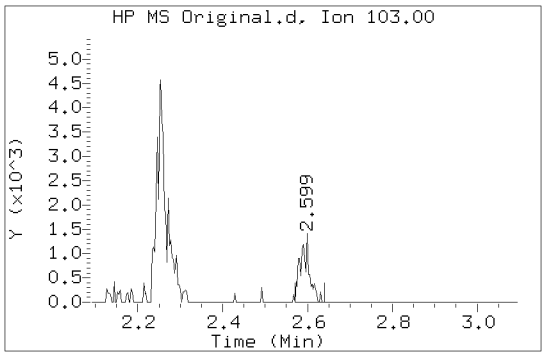
BEFORE
MASS
151
AREA
2827
HEIGHT
2499
25-Jun-2024
20:00



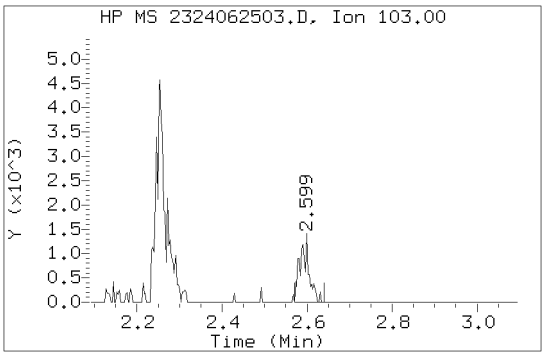

AFTER
MASS
151
AREA
2827
HEIGHT
2499
27-Jun-2024
16:06




BEFORE
MASS
103
AREA
1983
HEIGHT
1409
25-Jun-2024
20:00



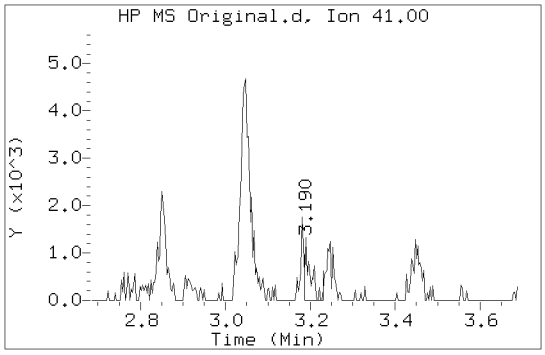

AFTER
MASS
103
AREA
1983
HEIGHT
1409
27-Jun-2024
16:06



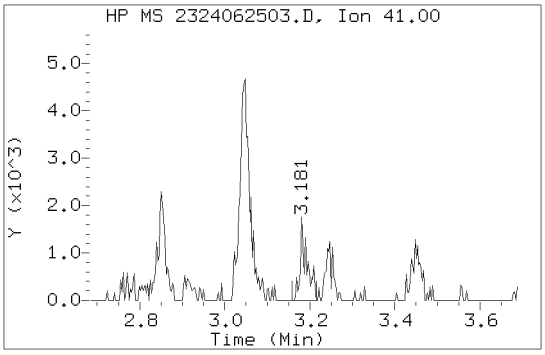

## Acetonitrile (75-05-8)

Reason Code: H

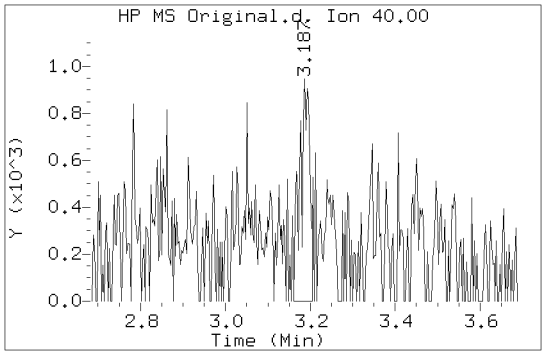
BEFORE
MASS
41
AREA
1131
HEIGHT
1331
25-Jun-2024
20:00



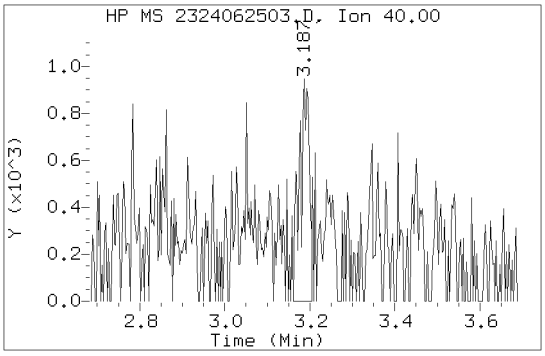

AFTER
MASS
41
AREA
1874
HEIGHT
1755
27-Jun-2024
16:06




BEFORE
MASS
40
AREA
1509
HEIGHT
947
25-Jun-2024
20:00




AFTER
MASS
40
AREA
1509
HEIGHT
947
27-Jun-2024
16:06

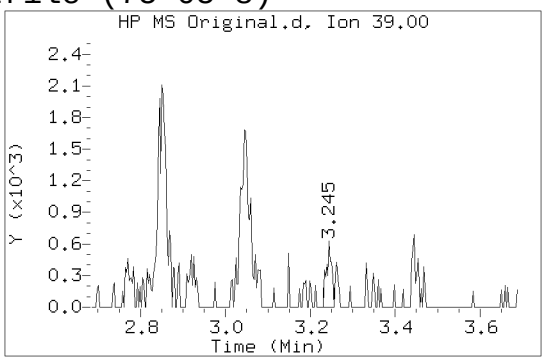


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Inj Date : 25-JUN-2024 11:40
InstruID : ms23.i
LabSampID : VSTD00.5

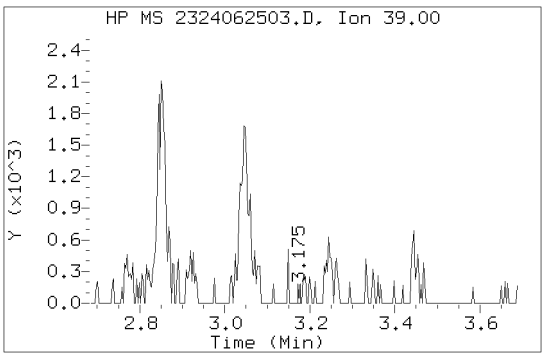
## Acetonitrile (75-05-8)

Reason Code: H

BEFORE
MASS
39
AREA
541
HEIGHT
629
25-Jun-2024
20:00



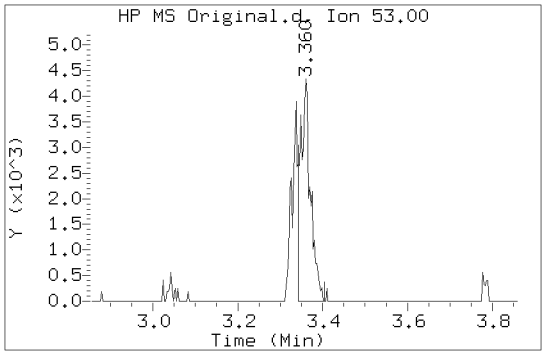

AFTER
MASS
39
AREA
30
HEIGHT
177
27-Jun-2024
16:06



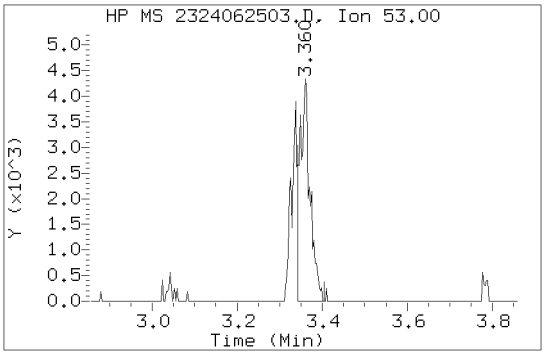

## Acrylonitrile (107-13-1)

Reason Code: MP

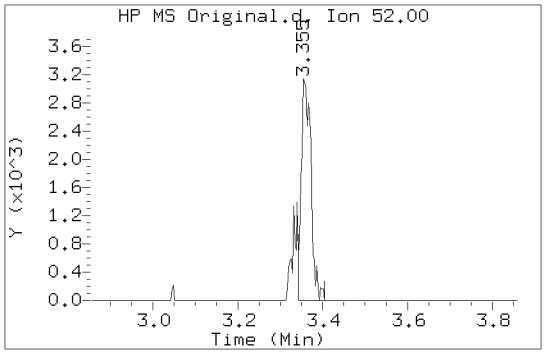
BEFORE
MASS
53
AREA
6986
HEIGHT
4339
25-Jun-2024
20:00



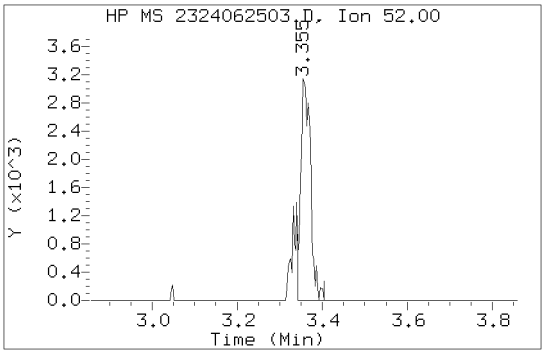

AFTER
MASS
53
AREA
6986
HEIGHT
4339
27-Jun-2024
16:06



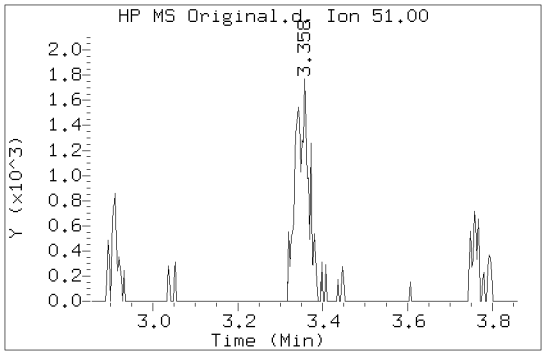

BEFORE
MASS
52
AREA
4898
HEIGHT
3142
25-Jun-2024
20:00



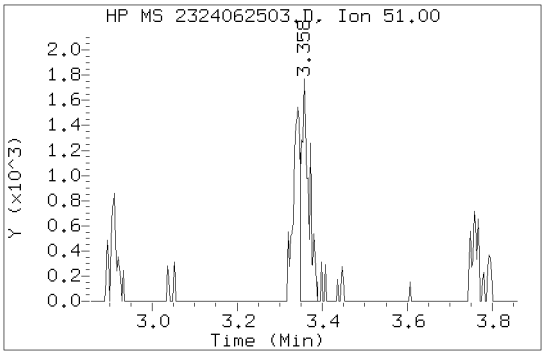

AFTER
MASS
52
AREA
4898
HEIGHT
3142
27-Jun-2024
16:06




BEFORE
MASS
51
AREA
3755
HEIGHT
1770
25-Jun-2024
20:00




AFTER
MASS
51
AREA
2096
HEIGHT
1769
27-Jun-2024
16:06

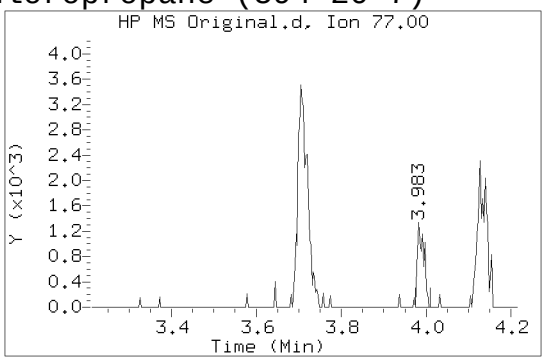


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Inj Date : 25-JUN-2024 11:40
InstruID : ms23.i
LabSampID : VSTD00.5

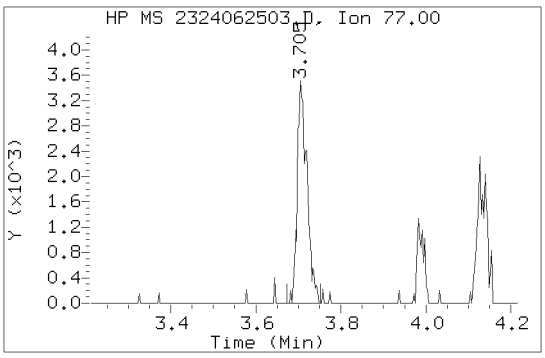
## 2,2-Dichloropropane (594-20-7)

Reason Code: H

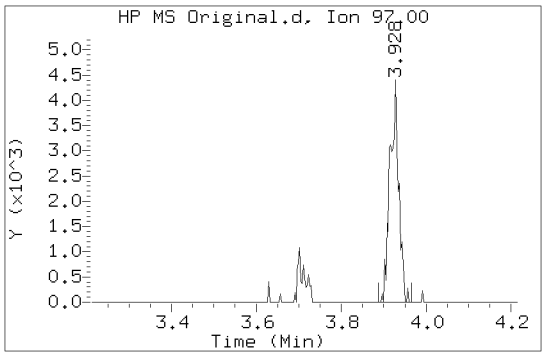
BEFORE
MASS
77
AREA
1440
HEIGHT
1342
25-Jun-2024
20:00



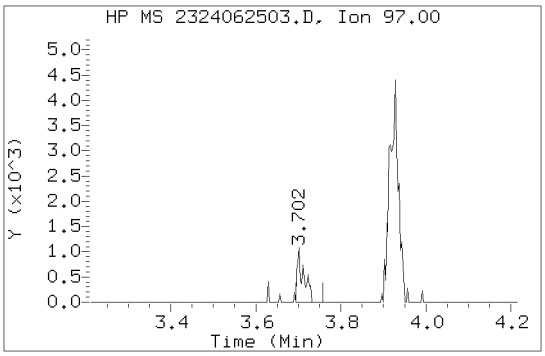

AFTER
MASS
77
AREA
5500
HEIGHT
3510
27-Jun-2024
16:06



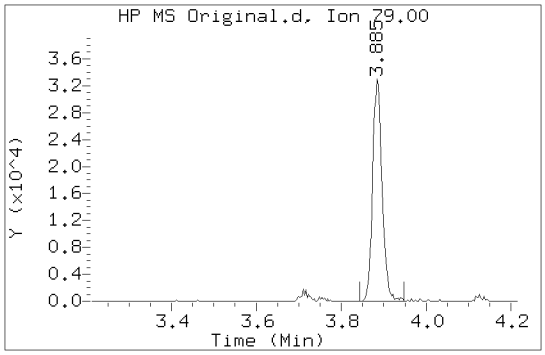

BEFORE
MASS
97
AREA
6201
HEIGHT
4405
25-Jun-2024
20:00



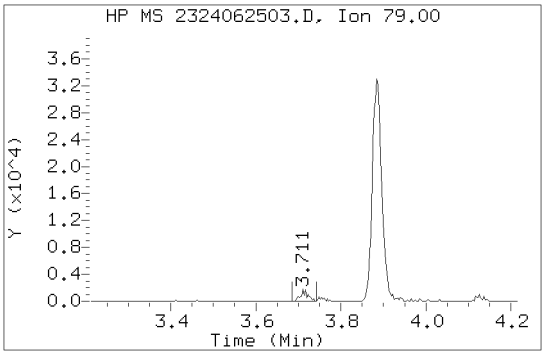

AFTER
MASS
97
AREA
1099
HEIGHT
1077
27-Jun-2024
16:06




BEFORE
MASS
79
AREA
51498
HEIGHT
33016
25-Jun-2024
20:00



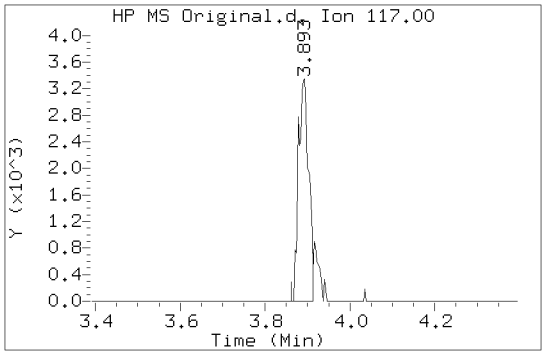

AFTER
MASS
79
AREA
1975
HEIGHT
1842
27-Jun-2024
16:06



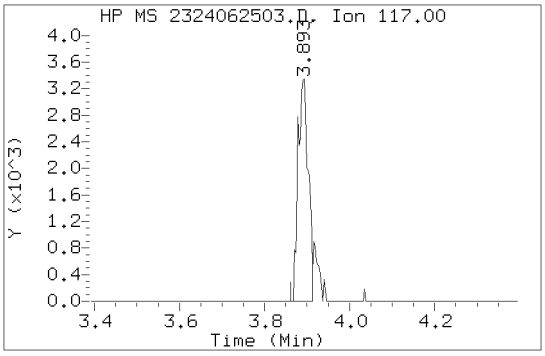

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

BEFORE
MASS
117
AREA
5500
HEIGHT
3346
25-Jun-2024
20:00




AFTER
MASS
117
AREA
5500
HEIGHT
3346
27-Jun-2024
16:06

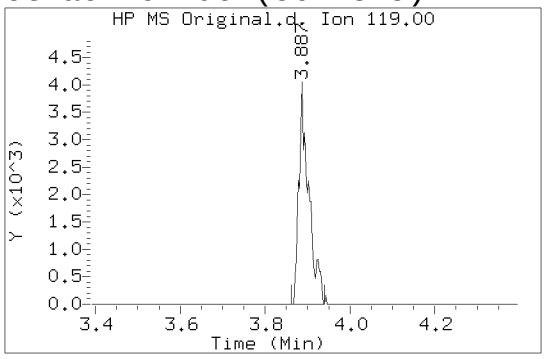


Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062503.D
Inj Date : 25-JUN-2024 11:40
InstruID : ms23.i
LabSampID : VSTD00.5

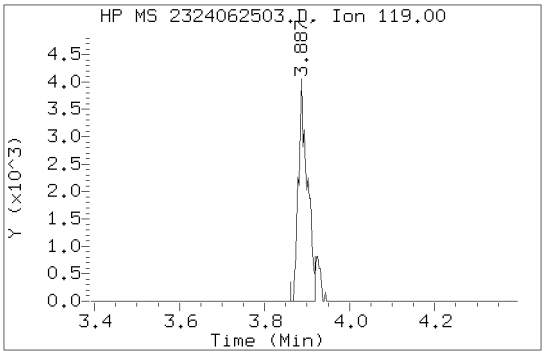
## Carbon Tetrachloride (56-23-5)

Reason Code: MP

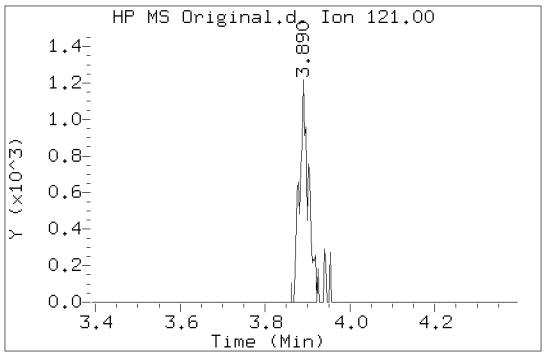
BEFORE
MASS
119
AREA
6406
HEIGHT
4054
25-Jun-2024
20:00



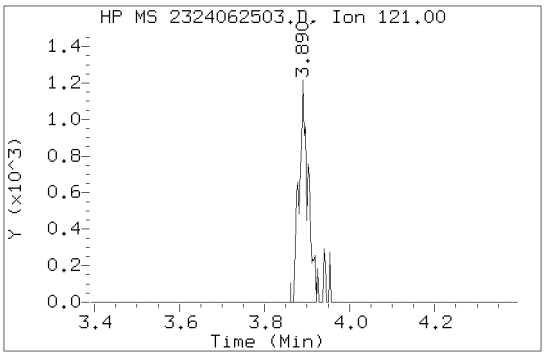

AFTER
MASS
119
AREA
5862
HEIGHT
4054
27-Jun-2024
16:06




BEFORE
MASS
121
AREA
1774
HEIGHT
1217
25-Jun-2024
20:00



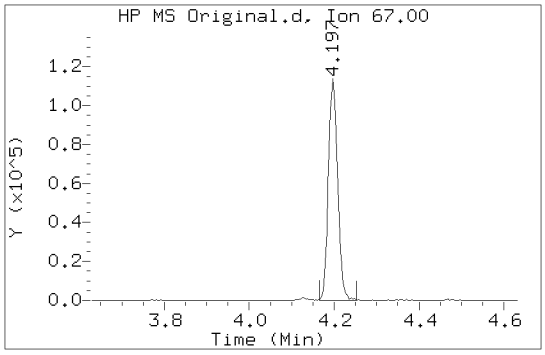

AFTER
MASS
121
AREA
1774
HEIGHT
1217
27-Jun-2024
16:06



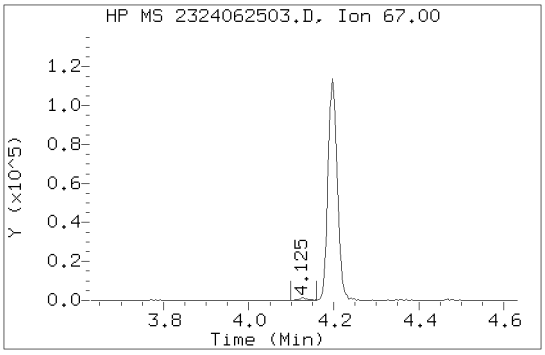

## Methacrylonitrile (126-98-7)

Reason Code: H

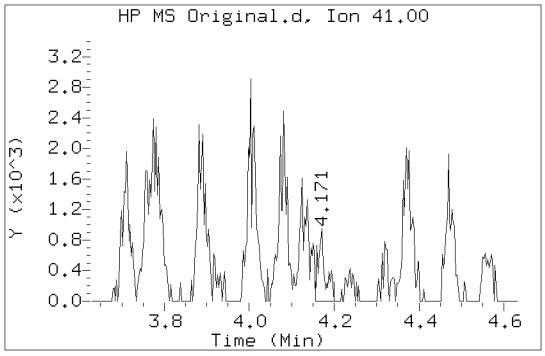
BEFORE
MASS
67
AREA
171797
HEIGHT
113824
25-Jun-2024
20:00



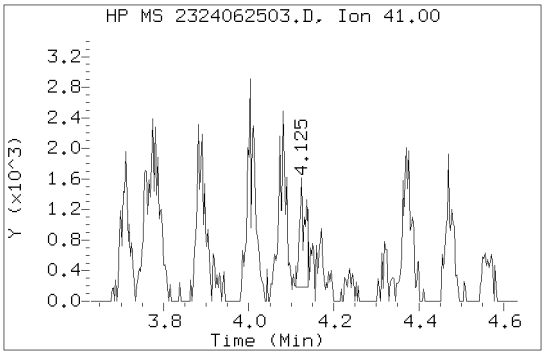

AFTER
MASS
67
AREA
1599
HEIGHT
1288
27-Jun-2024
16:06




BEFORE
MASS
41
AREA
1055
HEIGHT
950
25-Jun-2024
20:00




AFTER
MASS
41
AREA
1325
HEIGHT
1436
27-Jun-2024
16:06

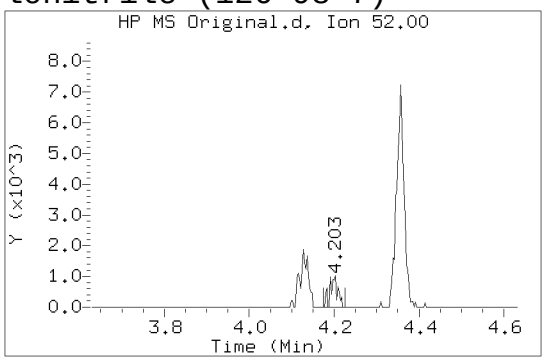


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Inj Date : 25-JUN-2024 11:40
InstruID : ms23.i
LabSampID : VSTD00.5

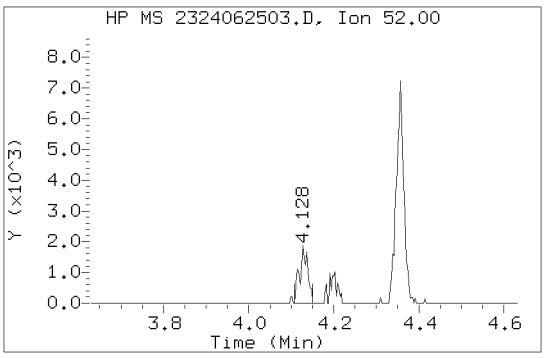
## Methacrylonitrile (126-98-7)

Reason Code: H

BEFORE
MASS
52
AREA
1258
HEIGHT
1018
25-Jun-2024
20:00



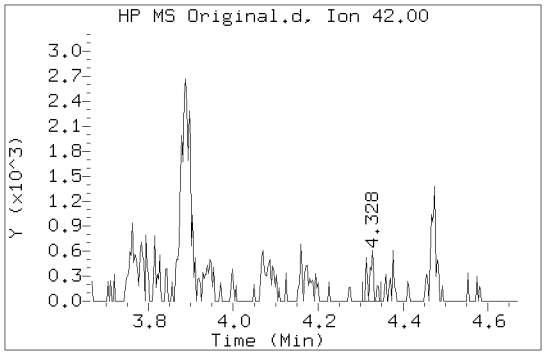

AFTER
MASS
52
AREA
2461
HEIGHT
1887
27-Jun-2024
16:06



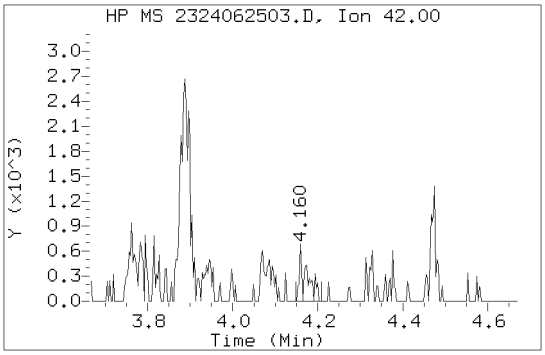

## Isobutyl alcohol (78-83-1)

Reason Code: H

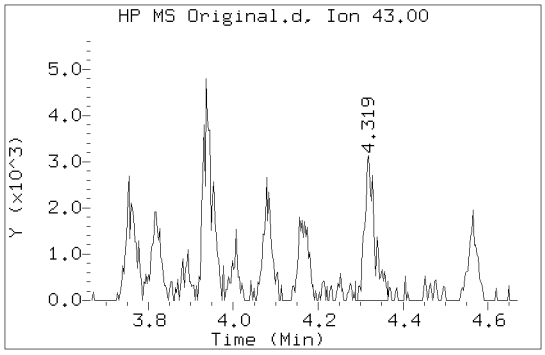
BEFORE
MASS
42
AREA
520
HEIGHT
608
25-Jun-2024
20:00



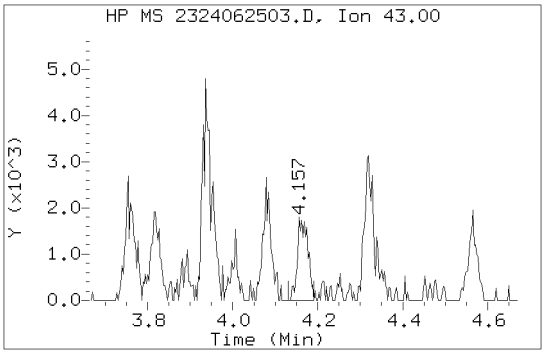

AFTER
MASS
42
AREA
787
HEIGHT
685
27-Jun-2024
16:06



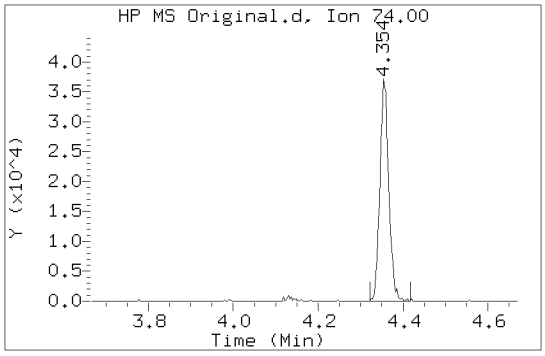

BEFORE
MASS
43
AREA
5218
HEIGHT
3139
25-Jun-2024
20:00



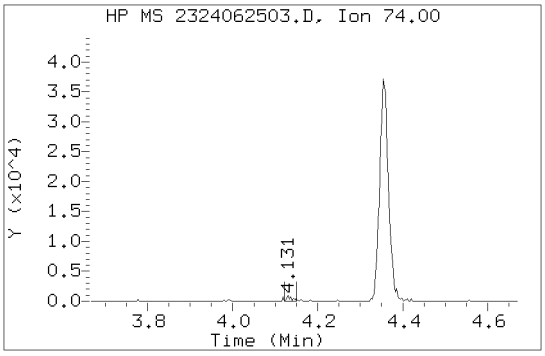

AFTER
MASS
43
AREA
2969
HEIGHT
1797
27-Jun-2024
16:06




BEFORE
MASS
74
AREA
53928
HEIGHT
37168
25-Jun-2024
20:00




AFTER
MASS
74
AREA
720
HEIGHT
954
27-Jun-2024
16:06

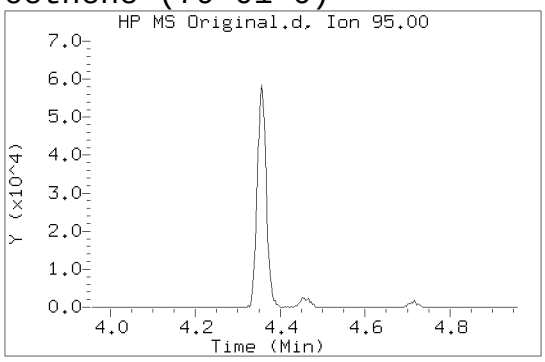


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Inj Date : 25-JUN-2024 11:40
InstruID : ms23.i
LabSampID : VSTD00.5

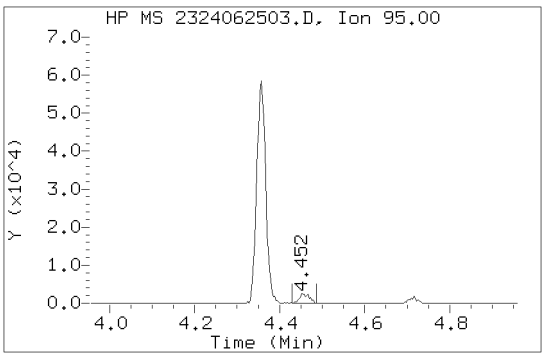
## Trichloroethene (79-01-6)

Reason Code: IH

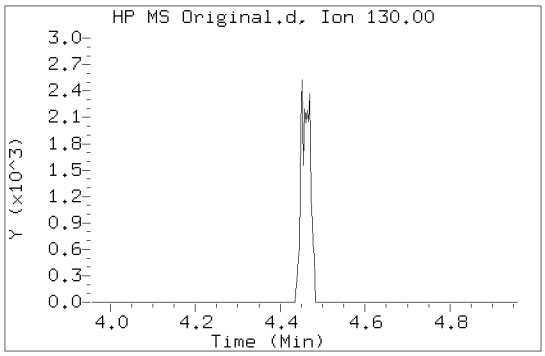
BEFORE
MASS
95
AREA
0
HEIGHT
0
25-Jun-2024
20:00



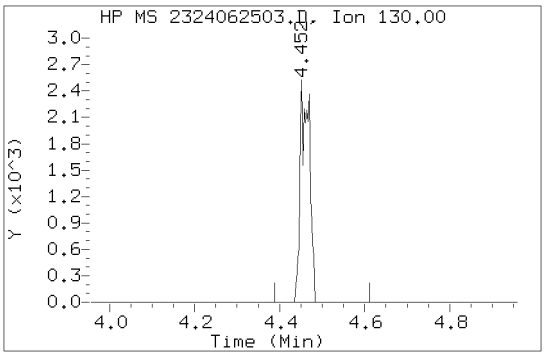

AFTER
MASS
95
AREA
3984
HEIGHT
2595
27-Jun-2024
16:06



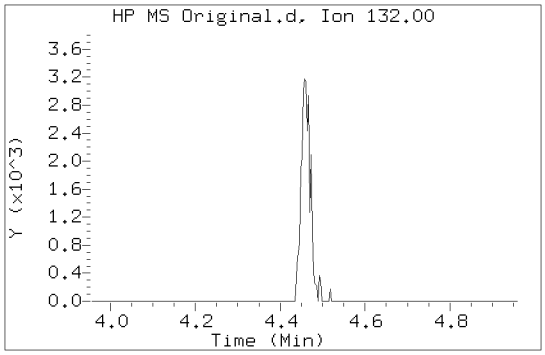

BEFORE
MASS
130
AREA
0
HEIGHT
0
25-Jun-2024
20:00



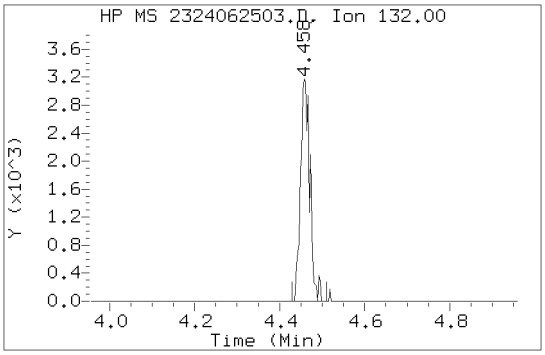

AFTER
MASS
130
AREA
3783
HEIGHT
2526
27-Jun-2024
16:06




BEFORE
MASS
132
AREA
0
HEIGHT
0
25-Jun-2024
20:00



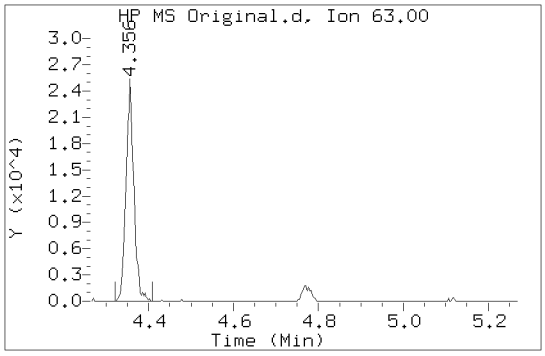

AFTER
MASS
132
AREA
4766
HEIGHT
3174
27-Jun-2024
16:06



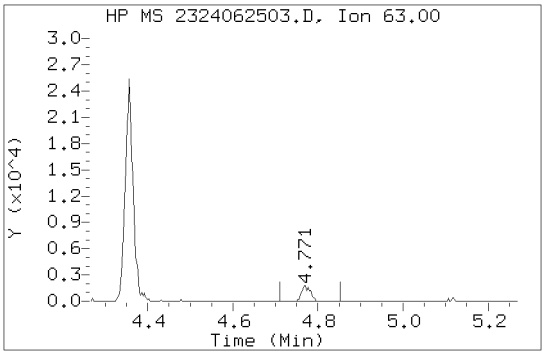

## 1,2-Dichloropropane (78-87-5)

Reason Code: H

BEFORE
MASS
63
AREA
33140
HEIGHT
25384
25-Jun-2024
20:00




AFTER
MASS
63
AREA
2459
HEIGHT
1774
27-Jun-2024
16:06

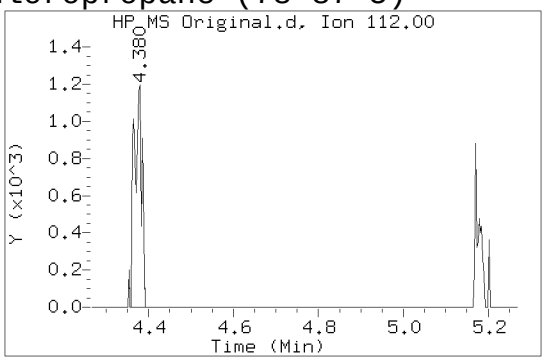


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Inj Date : 25-JUN-2024 11:40
InstruID : ms23.i
LabSampID : VSTD00.5

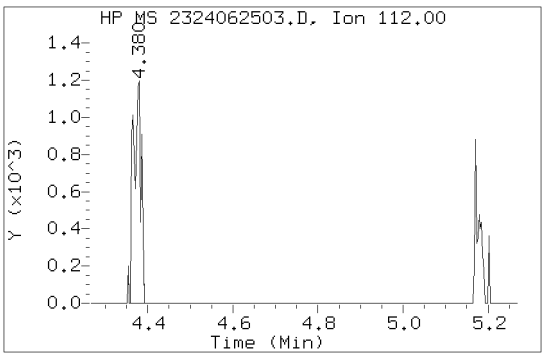
## 1,2-Dichloropropane (78-87-5)

Reason Code: H

BEFORE
MASS
112
AREA
1443
HEIGHT
1196
25-Jun-2024
20:00



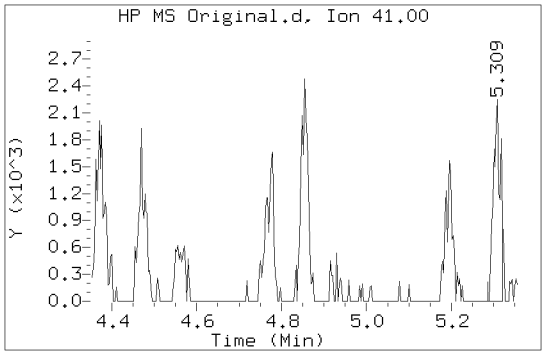

AFTER
MASS
112
AREA
1443
HEIGHT
1196
27-Jun-2024
16:06



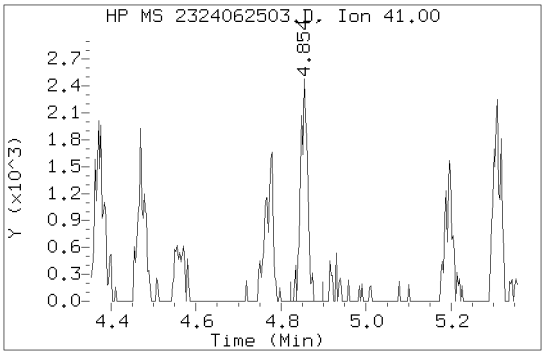

## Methyl methacrylate (80-62-6)

Reason Code: IH

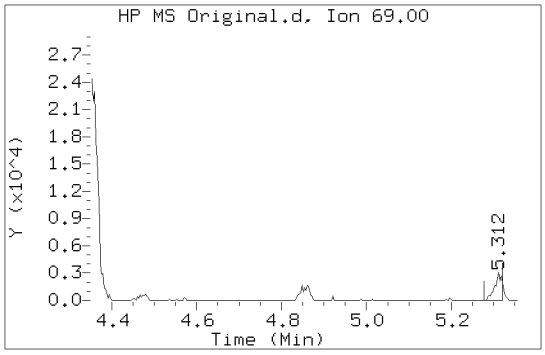
BEFORE
MASS
41
AREA
2576
HEIGHT
2255
25-Jun-2024
20:00



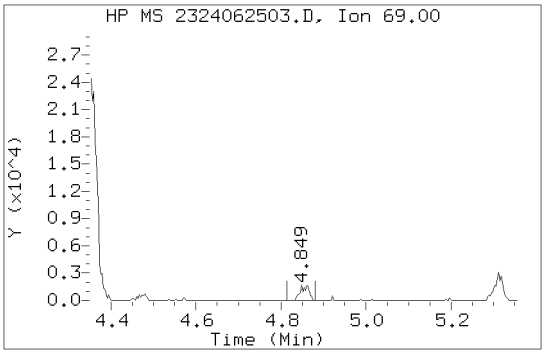

AFTER
MASS
41
AREA
2755
HEIGHT
2480
27-Jun-2024
16:06



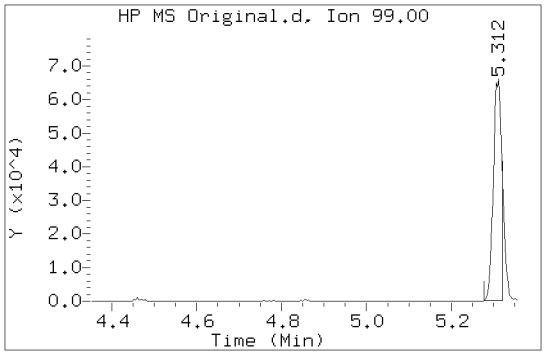

BEFORE
MASS
69
AREA
3524
HEIGHT
3129
25-Jun-2024
20:00



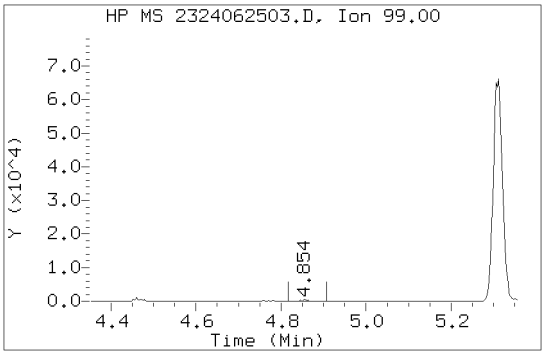

AFTER
MASS
69
AREA
2277
HEIGHT
1697
27-Jun-2024
16:06




BEFORE
MASS
99
AREA
88173
HEIGHT
65886
25-Jun-2024
20:00




AFTER
MASS
99
AREA
360
HEIGHT
598
27-Jun-2024
16:06

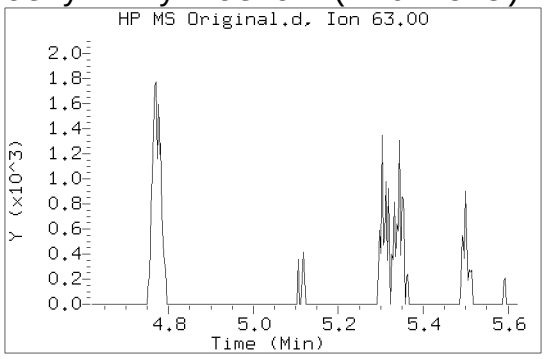


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LabSampID : VSTD00.5

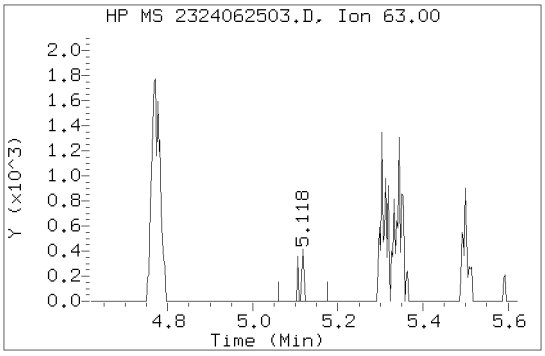
## 2-Chloroethylvinyl ether (110-75-8)

Reason Code: IH

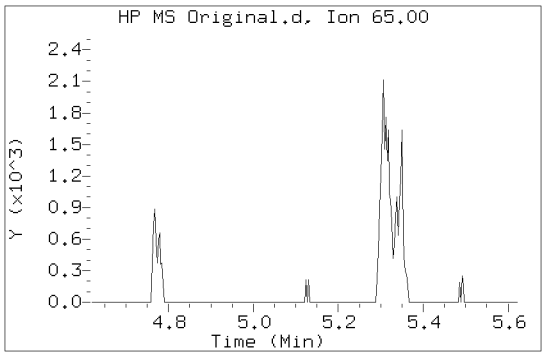
BEFORE
MASS
63
AREA
0
HEIGHT
0
25-Jun-2024
20:00



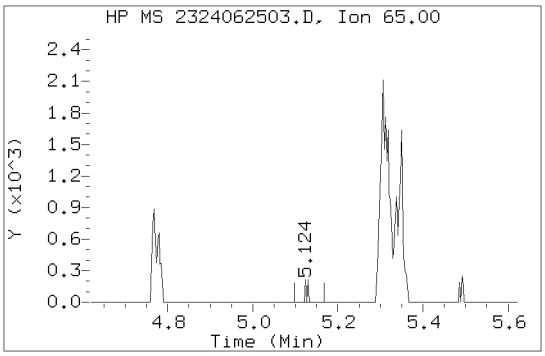

AFTER
MASS
63
AREA
204
HEIGHT
413
27-Jun-2024
16:06



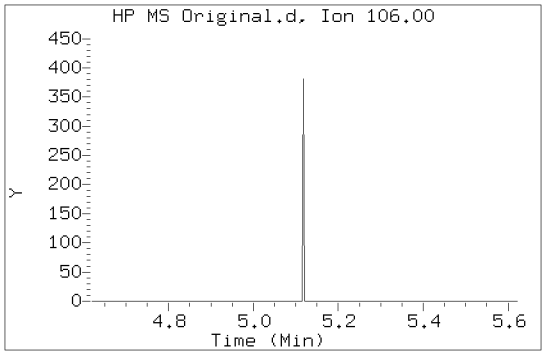

BEFORE
MASS
65
AREA
0
HEIGHT
0
25-Jun-2024
20:00



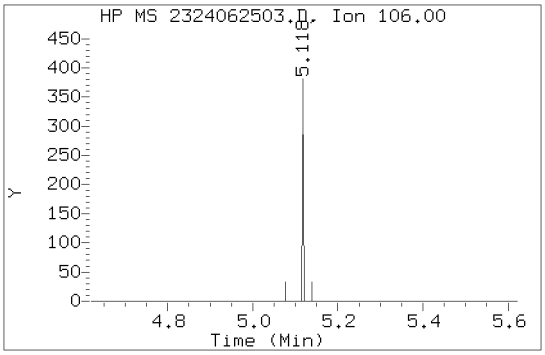

AFTER
MASS
65
AREA
75
HEIGHT
216
27-Jun-2024
16:06




BEFORE
MASS
106
AREA
0
HEIGHT
0
25-Jun-2024
20:00



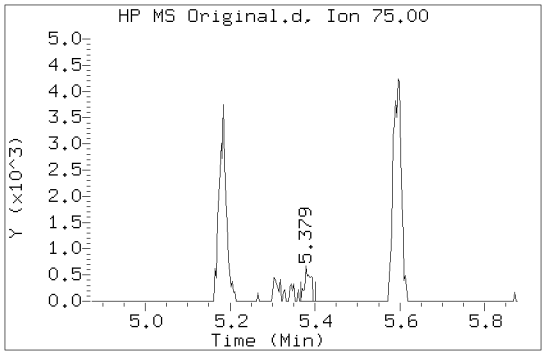

AFTER
MASS
106
AREA
66
HEIGHT
381
27-Jun-2024
16:06



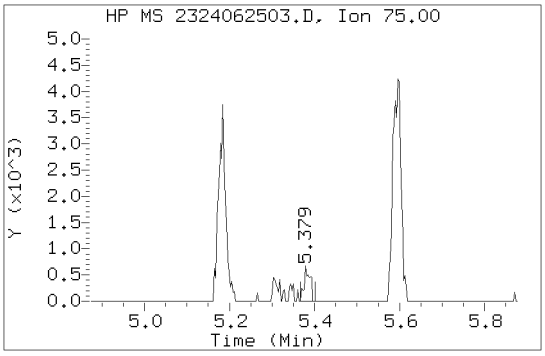

## Chloroacetonitrile (107-14-2)

Reason Code: H

BEFORE
MASS
75
AREA
640
HEIGHT
671
25-Jun-2024
20:00




AFTER
MASS
75
AREA
640
HEIGHT
671
27-Jun-2024
16:06

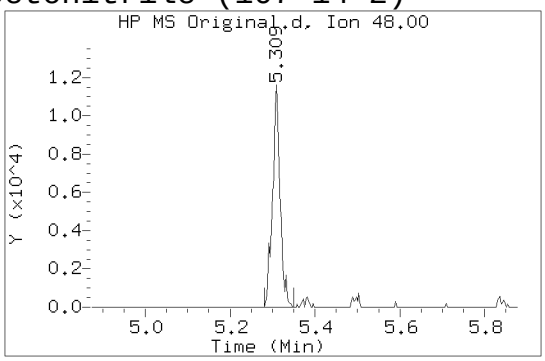


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Inj Date : 25-JUN-2024 11:40
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LabSampID : VSTD00.5

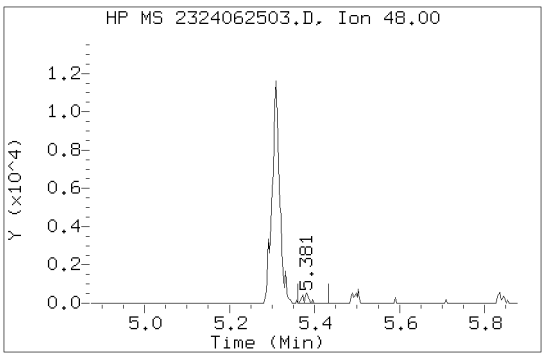
## Chloroacetonitrile (107-14-2)

Reason Code: H

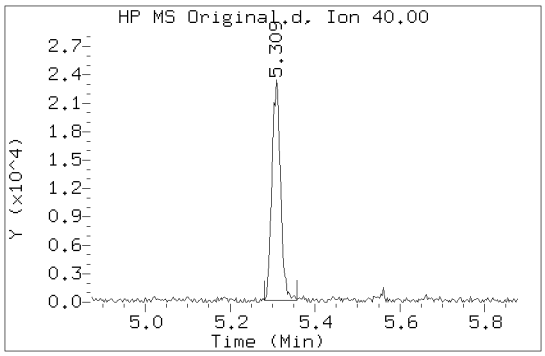
BEFORE
MASS
48
AREA
14189
HEIGHT
11615
25-Jun-2024
20:00



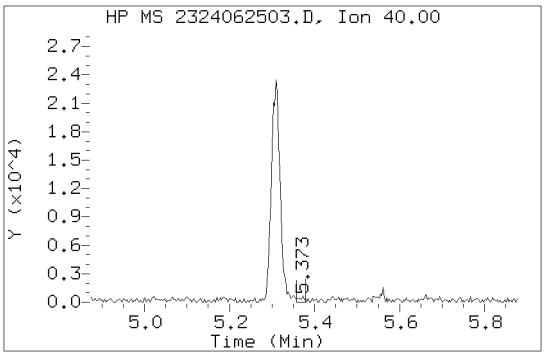

AFTER
MASS
48
AREA
437
HEIGHT
525
27-Jun-2024
16:06




BEFORE
MASS
40
AREA
32224
HEIGHT
23245
25-Jun-2024
20:00



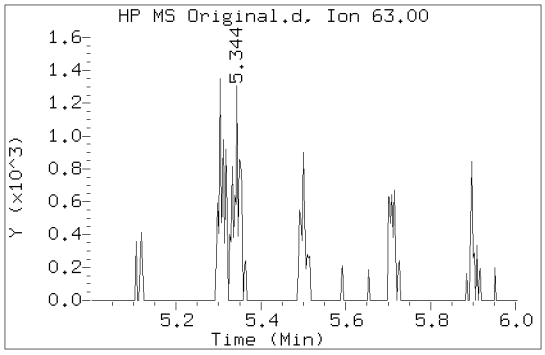

AFTER
MASS
40
AREA
558
HEIGHT
693
27-Jun-2024
16:06



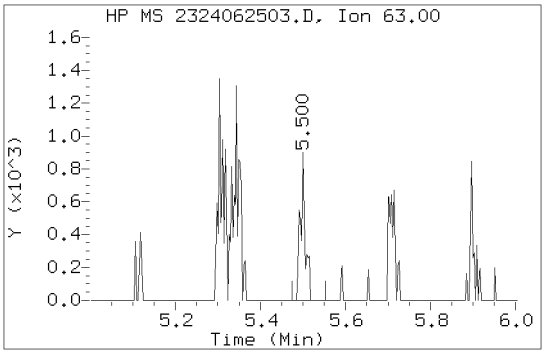

## 1,1-Dichloro-2-Propanone (513-88-2)

Reason Code: H

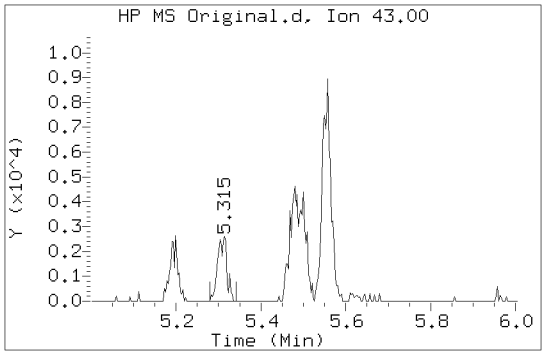
BEFORE
MASS
63
AREA
1262
HEIGHT
1307
25-Jun-2024
20:00



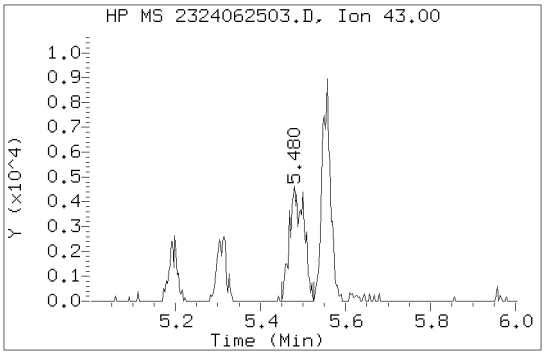

AFTER
MASS
63
AREA
694
HEIGHT
902
27-Jun-2024
16:06




BEFORE
MASS
43
AREA
3971
HEIGHT
2607
25-Jun-2024
20:00




AFTER
MASS
43
AREA
10767
HEIGHT
4643
27-Jun-2024
16:06

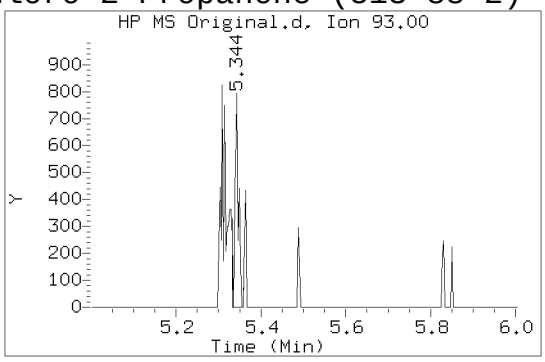


Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062503.D
Inj Date : 25-JUN-2024 11:40
InstruID : ms23.i
LabSampID : VSTD00.5

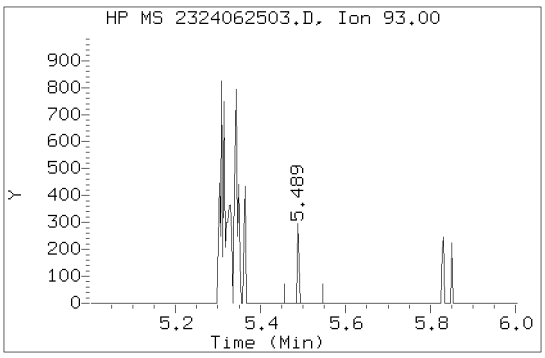
## 1,1-Dichloro-2-Propanone (513-88-2)

Reason Code: H

BEFORE
MASS
93
AREA
515
HEIGHT
795
25-Jun-2024
20:00



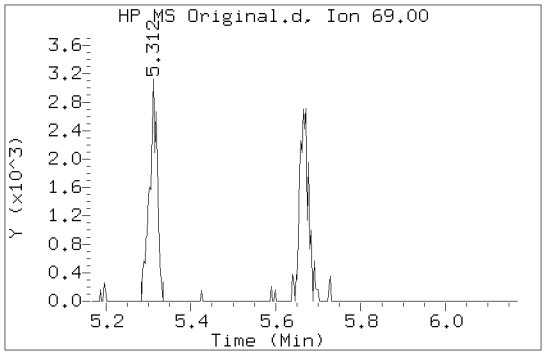

AFTER
MASS
93
AREA
77
HEIGHT
297
27-Jun-2024
16:06



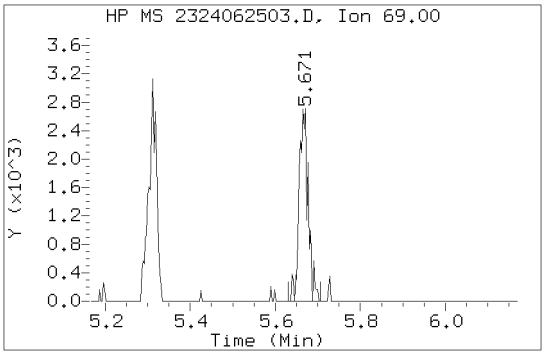

## Ethyl Methacrylate (97-63-2)

Reason Code: H

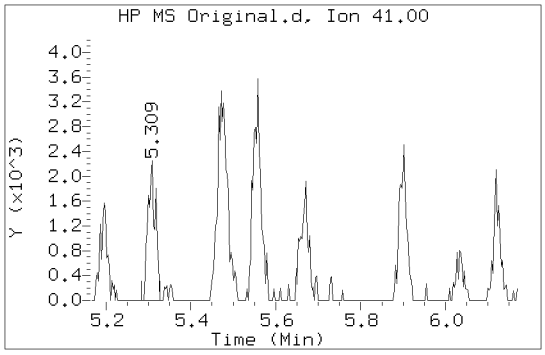
BEFORE
MASS
69
AREA
3916
HEIGHT
3129
25-Jun-2024
20:00



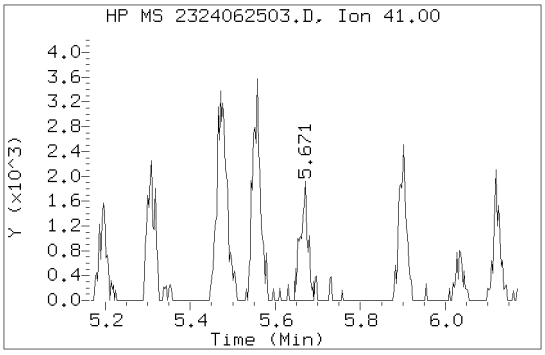

AFTER
MASS
69
AREA
3894
HEIGHT
2718
27-Jun-2024
16:06



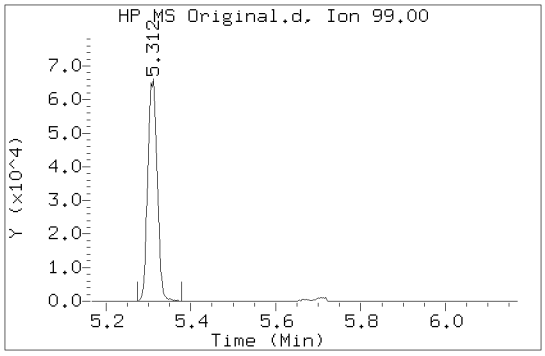

BEFORE
MASS
41
AREA
2676
HEIGHT
2255
25-Jun-2024
20:00



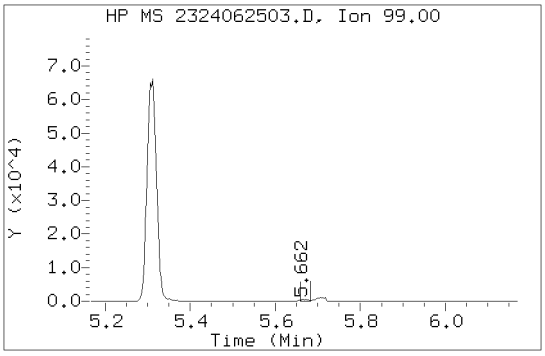

AFTER
MASS
41
AREA
2276
HEIGHT
1919
27-Jun-2024
16:06




BEFORE
MASS
99
AREA
100854
HEIGHT
66144
25-Jun-2024
20:00




AFTER
MASS
99
AREA
575
HEIGHT
563
27-Jun-2024
16:06

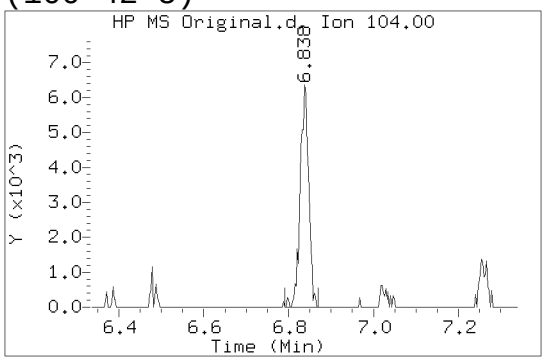


Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062503.D
Inj Date : 25-JUN-2024 11:40
InstruID : ms23.i
LabSampID : VSTD00.5

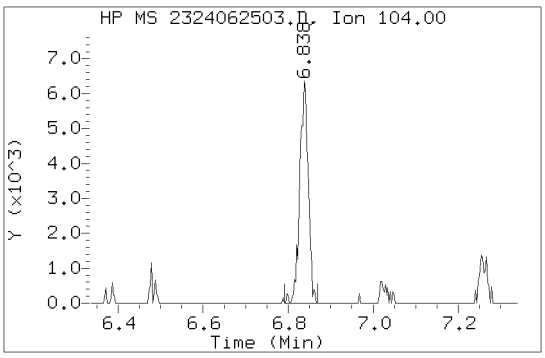
## Styrene (100-42-5)

Reason Code: MP

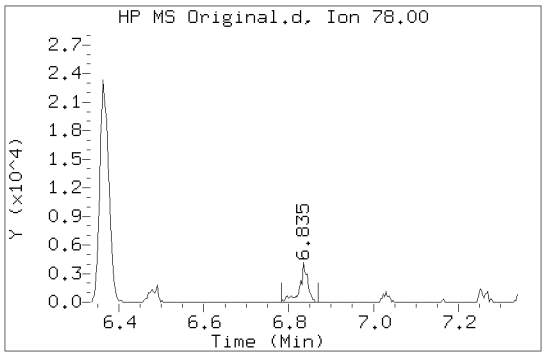
BEFORE
MASS
104
AREA
8632
HEIGHT
6361
25-Jun-2024
20:00



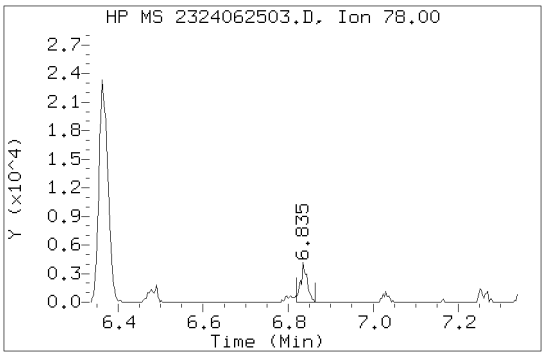

AFTER
MASS
104
AREA
8632
HEIGHT
6361
27-Jun-2024
16:06



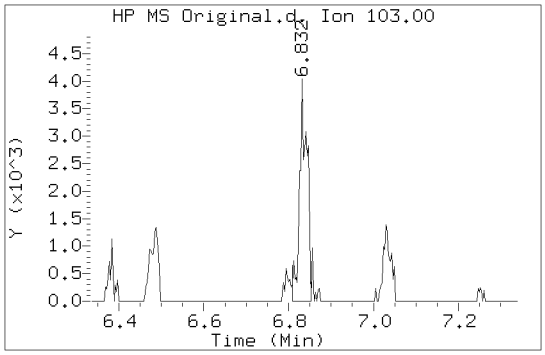

BEFORE
MASS
78
AREA
5220
HEIGHT
4171
25-Jun-2024
20:00



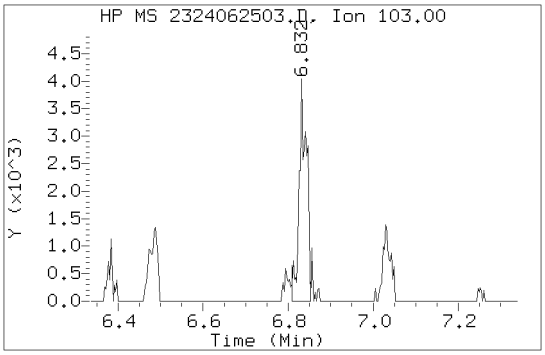

AFTER
MASS
78
AREA
4228
HEIGHT
4169
27-Jun-2024
16:06




BEFORE
MASS
103
AREA
4714
HEIGHT
4039
25-Jun-2024
20:00



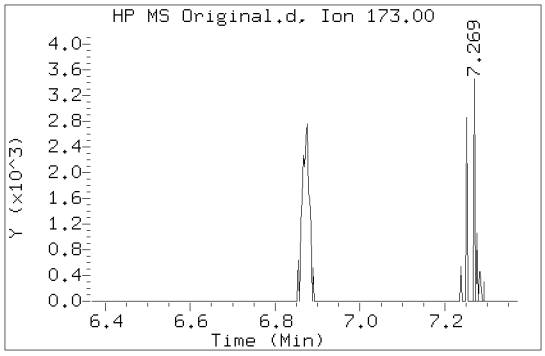

AFTER
MASS
103
AREA
4714
HEIGHT
4039
27-Jun-2024
16:06



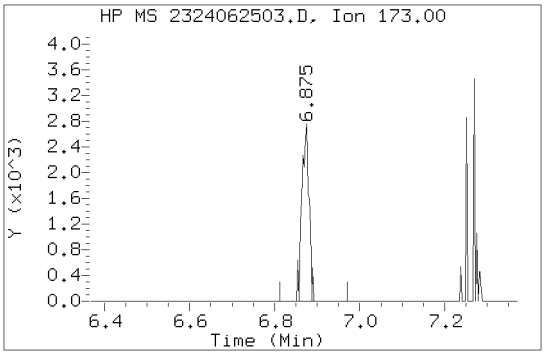

## Bromoform (75-25-2)

Reason Code: H

BEFORE
MASS
173
AREA
969
HEIGHT
3458
25-Jun-2024
20:00




AFTER
MASS
173
AREA
3134
HEIGHT
2756
27-Jun-2024
16:06

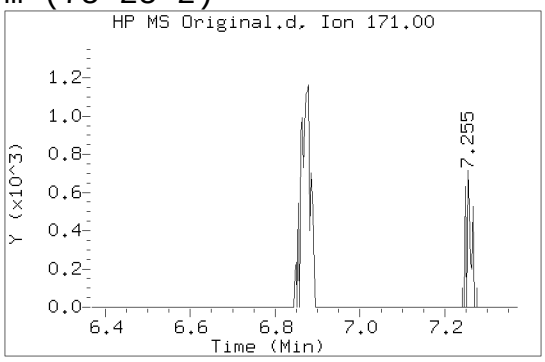


Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062503.D
Inj Date : 25-JUN-2024 11:40
InstruID : ms23.i
LabSampID : VSTD00.5

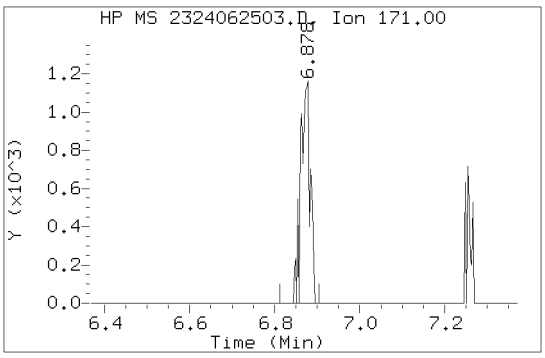
## Bromoform (75-25-2)

Reason Code: H

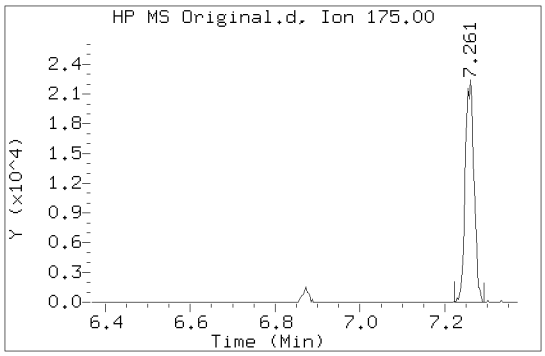
BEFORE
MASS
171
AREA
491
HEIGHT
715
25-Jun-2024
20:00



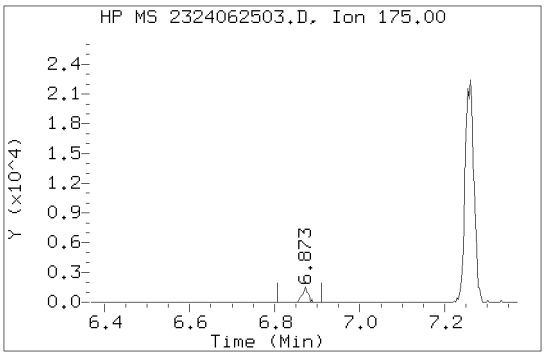

AFTER
MASS
171
AREA
1792
HEIGHT
1163
27-Jun-2024
16:06




BEFORE
MASS
175
AREA
31587
HEIGHT
22424
25-Jun-2024
20:00



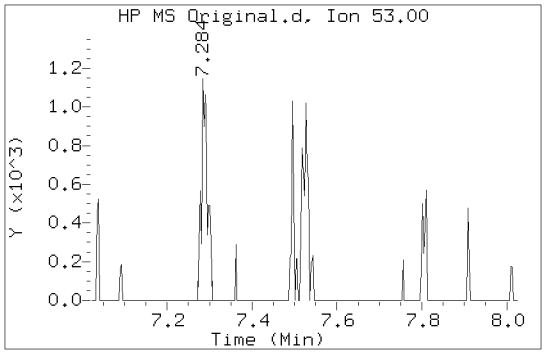

AFTER
MASS
175
AREA
1381
HEIGHT
1544
27-Jun-2024
16:06



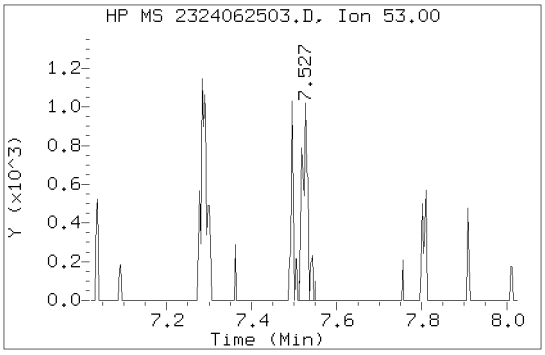

## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: H

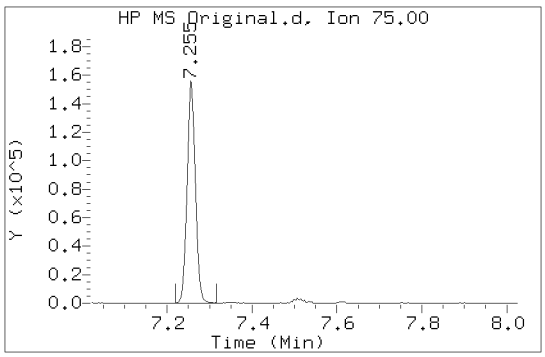
BEFORE
MASS
53
AREA
1185
HEIGHT
1146
25-Jun-2024
20:00



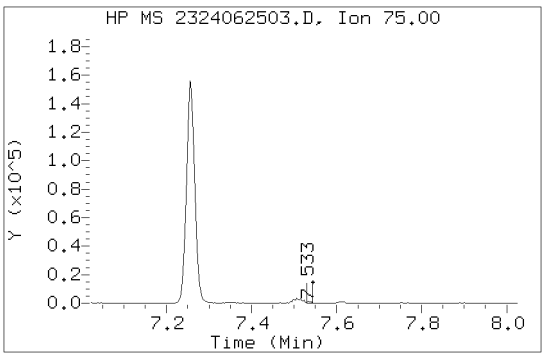

AFTER
MASS
53
AREA
917
HEIGHT
1022
27-Jun-2024
16:06




BEFORE
MASS
75
AREA
215842
HEIGHT
155968
25-Jun-2024
20:00




AFTER
MASS
75
AREA
780
HEIGHT
1416
27-Jun-2024
16:06

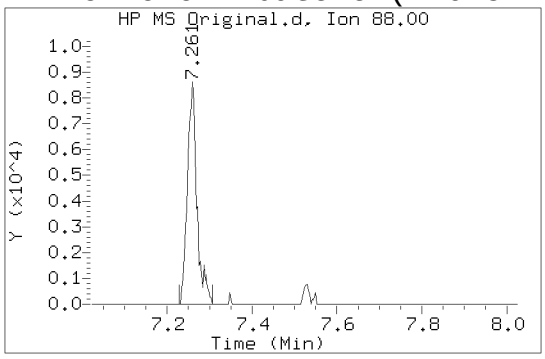


Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062503.D
Inj Date : 25-JUN-2024 11:40
InstruID : ms23.i
LabSampID : VSTD00.5

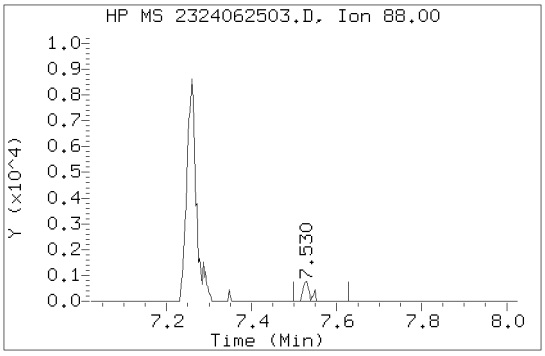
## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: H

BEFORE
MASS
88
AREA
13572
HEIGHT
8622
25-Jun-2024
20:00



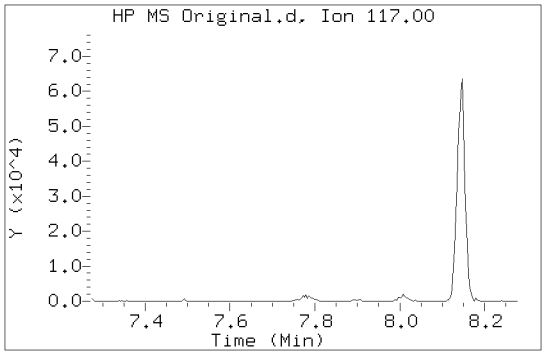

AFTER
MASS
88
AREA
843
HEIGHT
777
27-Jun-2024
16:06



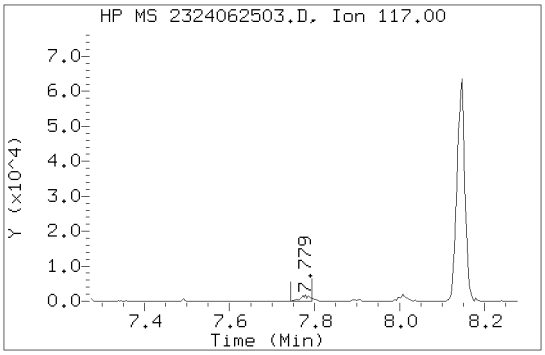

## Pentachloroethane (76-01-7)

Reason Code: H

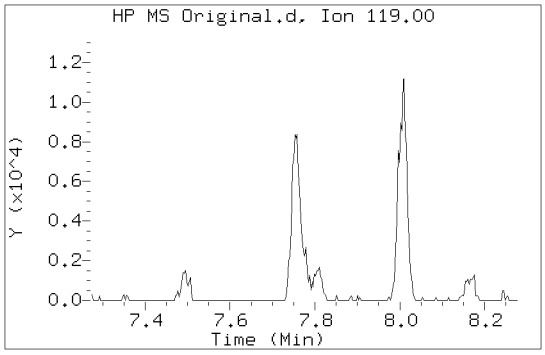
BEFORE
MASS
117
AREA
0
HEIGHT
0
25-Jun-2024
20:00



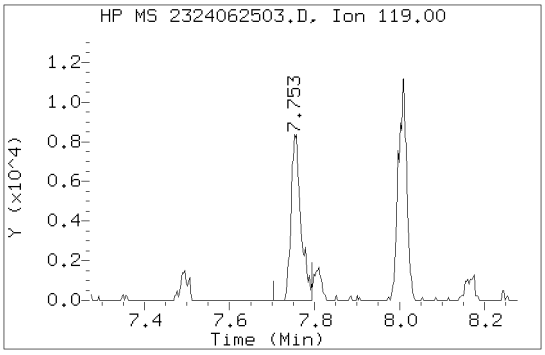

AFTER
MASS
117
AREA
2432
HEIGHT
1843
27-Jun-2024
16:06



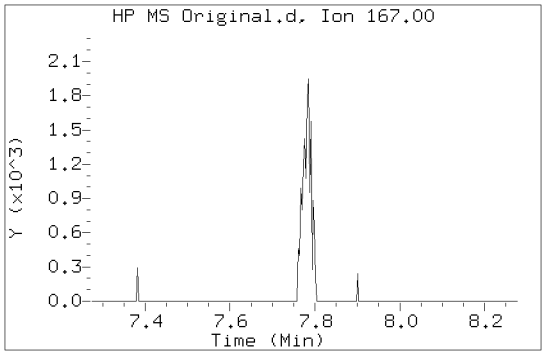

BEFORE
MASS
119
AREA
0
HEIGHT
0
25-Jun-2024
20:00



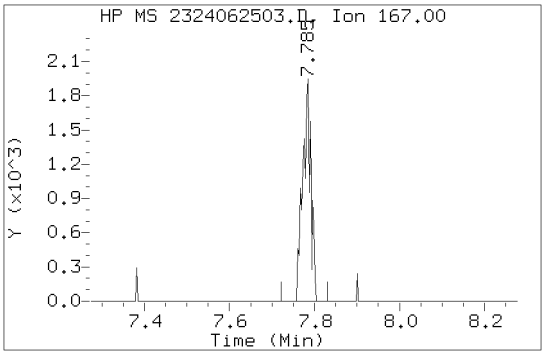

AFTER
MASS
119
AREA
13788
HEIGHT
8388
27-Jun-2024
16:06




BEFORE
MASS
167
AREA
0
HEIGHT
0
25-Jun-2024
20:00




AFTER
MASS
167
AREA
2539
HEIGHT
1947
27-Jun-2024
16:06

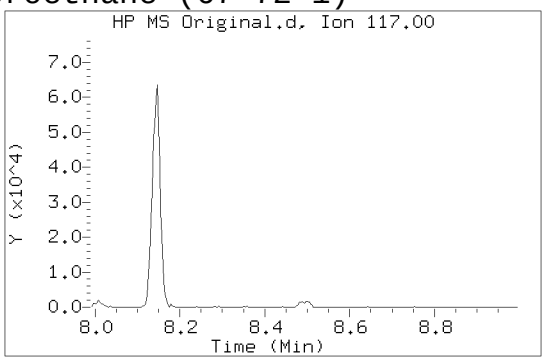


Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062503.D
Inj Date : 25-JUN-2024 11:40
InstruID : ms23.i
LabSampID : VSTD00.5

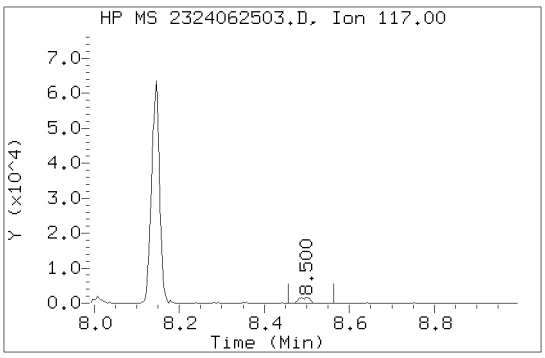
## Hexachloroethane (67-72-1)

Reason Code: IH

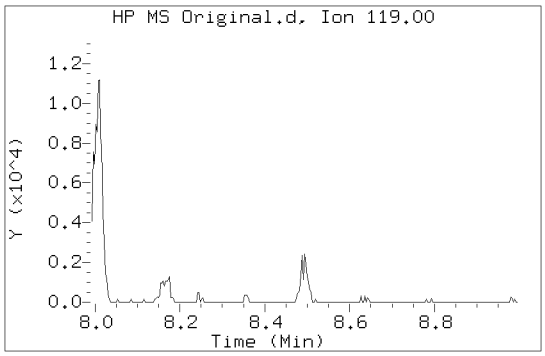
BEFORE
MASS
117
AREA
0
HEIGHT
0
25-Jun-2024
20:00



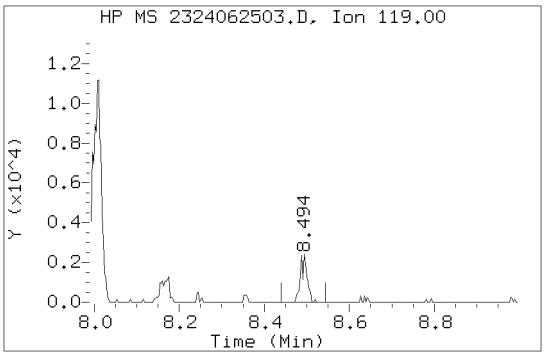

AFTER
MASS
117
AREA
2789
HEIGHT
1723
27-Jun-2024
16:06



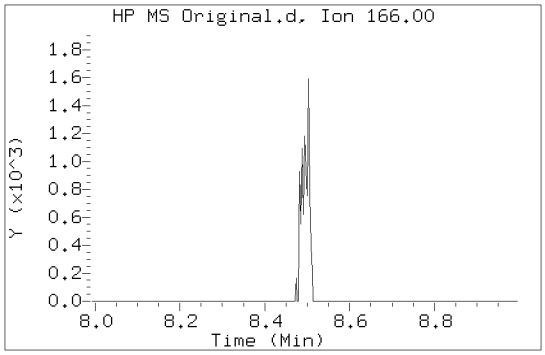

BEFORE
MASS
119
AREA
0
HEIGHT
0
25-Jun-2024
20:00



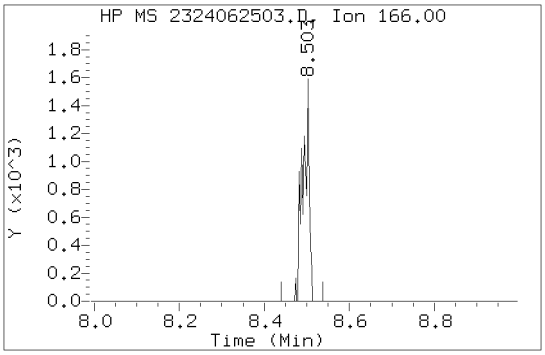

AFTER
MASS
119
AREA
2495
HEIGHT
2414
27-Jun-2024
16:06




BEFORE
MASS
166
AREA
0
HEIGHT
0
25-Jun-2024
20:00




AFTER
MASS
166
AREA
1600
HEIGHT
1591
27-Jun-2024
16:06



# UNASSIGNED PEAK REPORT

Report Date: 06/27/2024 16:06
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240625.b/232406250
Inj Date: 25-JUN-2024 11:40
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062504.D Page 1
Report Date: 27-Jun-2024 16:07

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062504.D
Lab Smp Id: 1234
Inj Date : 25-JUN-2024 12:00
Operator : ILY Inst ID: ms23.i
Smp Info : 1234;;1;1;1;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\23-8260b09.m
Meth Date : 25-Jun-2024 20:25 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 12:20 Cal File: 2324062505.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.632 | 1.632 | (0.375) | 11485 | 1.00000 | 0.819389(a) | |
| 2 Chloromethane | 50 | 1.779 | 1.780 | (0.409) | 8241 | 1.00000 | 0.962334(a) | |
| 3 Vinyl Chloride | 62 | 1.849 | 1.849 | (0.424) | 6846 | 1.00000 | 0.811527(a) | |
| 4 Bromomethane | 94 | 2.072 | 2.072 | (0.476) | 6090 | 1.00000 | 0.966749(a) | |
| 5 Chloroethane | 64 | 2.156 | 2.156 | (0.495) | 3851 | 1.00000 | 0.829629(a) | |
| 6 Pentane | 41 | 2.251 | 2.252 | (0.517) | 6099 | 1.00000 | 1.07464 | |
| 7 Trichlorofluoromethane | 101 | 2.254 | 2.255 | (0.518) | 14903 | 1.00000 | 0.829788(a) | |
| 8 Dichlorofluoromethane | 67 | 2.277 | 2.278 | (0.523) | 12697 | 1.00000 | 0.837477(a) | |
| 9 Ethyl Ether | 74 | 2.445 | 2.446 | (0.561) | 4288 | 1.00000 | 0.905918(a) | |
| 10 1,1-Dichloroethene | 61 | 2.581 | 2.582 | (0.593) | 9728 | 1.00000 | 0.908573(a) | |
| 11 Freon 113 | 101 | 2.593 | 2.593 | (0.595) | 6445 | 1.00000 | 0.884924(a) | |
| 12 Carbon Disulfide | 76 | 2.619 | 2.619 | (0.601) | 17003 | 1.00000 | 0.818708(a) | |
| 13 Iodomethane | 127 | 2.686 | 2.686 | (0.617) | 2825 | 1.00000 | 0.734471(a) | |
| 14 Acrolein | 56 | 2.767 | 2.767 | (0.635) | 5565 | 5.00000 | 4.13358 | |
| 15 Isopropyl Alcohol | 45 | 2.819 | 2.819 | (0.647) | 4164 | 5.00000 | 5.51432 | |
| 16 3-Chloro-1-propene | 41 | 2.848 | 2.848 | (0.654) | 6383 | 1.00000 | 0.967948(a) | |
| 17 Methylene Chloride | 84 | 2.908 | 2.909 | (0.668) | 7063 | 1.00000 | 0.910319(a) | |
| 18 Acetone | 58 | 2.923 | 2.923 | (0.671) | 3072 | 5.00000 | 4.29504(Q) | |
| 19 Methyl acetate | 74 | 2.998 | 2.999 | (0.688) | 1655 | 1.00000 | 0.919134(aQ) | |
| 20 trans-1,2-Dichloroethene | 61 | 3.004 | 3.005 | (0.690) | 8745 | 1.00000 | 0.890893(a) | |
| 21 Hexane | 57 | 3.042 | 3.042 | (0.698) | 13974 | 1.00000 | 0.959926(a) | |
| 22 Methyl t-Butyl Ether | 73 | 3.050 | 3.051 | (0.700) | 22270 | 1.00000 | 0.849951(a) | |

Data File: 2324062504.D
Report Date: 27-Jun-2024 16:07



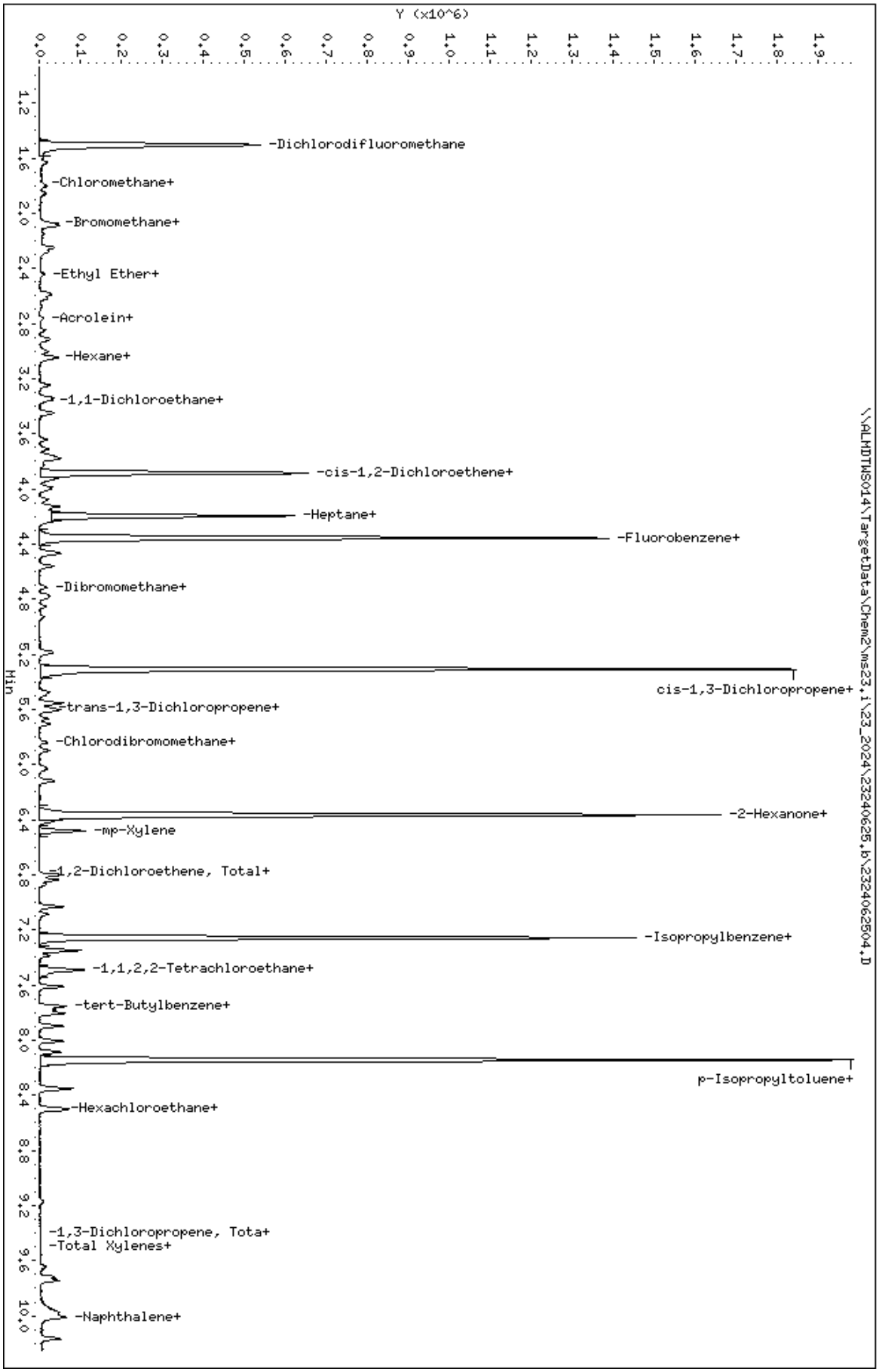
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 23 tert.- Butyl Alcohol | 59 | 3.065 | 3.065 | (0.704) | 4536 | 5.00000 | 4.15567 | |
| | 24 Acetonitrile | 41 | 3.186 | 3.187 | (0.732) | 3492 | 5.00000 | 4.23912 | |
| | 25 Diisopropyl ether | 45 | 3.244 | 3.245 | (0.745) | 15381 | 1.00000 | 0.848658(a) | |
| | 26 Chloroprene | 53 | 3.328 | 3.329 | (0.764) | 11526 | 1.00000 | 1.15271(M) | MP |
| | 27 1,1-Dichloroethane | 63 | 3.346 | 3.346 | (0.768) | 11278 | 1.00000 | 1.00755 | |
| | 28 Acrylonitrile | 53 | 3.357 | 3.358 | (0.771) | 12112 | 5.00000 | 4.54794(M) | MP |
| | 29 Ethyl tert-butyl ether | 59 | 3.447 | 3.448 | (0.791) | 20746 | 1.00000 | 1.00814 | |
| | 30 n-Propanol | 41 | 3.447 | 3.448 | (0.791) | 3625 | 10.0000 | 8.54672 | |
| | 31 Vinyl Acetate | 86 | 3.441 | 3.442 | (0.790) | 1806 | 1.00000 | 1.08006(Q) | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.641 | 3.641 | (0.836) | 8353 | 1.00000 | 0.822451(a) | |
| | 33 2,2-Dichloropropane | 77 | 3.713 | 3.714 | (0.852) | 11365 | 1.00000 | 0.847855(a) | |
| | 34 Bromochloromethane | 128 | 3.754 | 3.754 | (0.862) | 3991 | 1.00000 | 0.813922(aQ) | |
| | 35 Cyclohexane | 84 | 3.789 | 3.789 | (0.870) | 10947 | 1.00000 | 0.961022(a) | |
| | 36 Chloroform | 83 | 3.774 | 3.775 | (0.866) | 15642 | 1.00000 | 0.918188(a) | |
| | 37 Ethyl Acetate | 43 | 3.818 | 3.818 | (0.876) | 6648 | 1.00000 | 0.887915(a) | |
| | 38 Methyl acrylate | 55 | 3.829 | 3.830 | (0.879) | 6069 | 1.00000 | 1.02710 | |
| | 39 Carbon Tetrachloride | 117 | 3.893 | 3.893 | (0.894) | 11155 | 1.00000 | 0.946988(aM) | MP |
| $ | 41 Dibromofluoromethane | 113 | 3.884 | 3.885 | (0.892) | 283413 | 30.0000 | 30.1830 | |
| | 40 Tetrahydrofuran | 42 | 3.887 | 3.888 | (0.892) | 8528 | 5.00000 | 4.30988 | |
| | 42 1,1,1-Trichloroethane | 97 | 3.922 | 3.922 | (0.900) | 13288 | 1.00000 | 0.853398(a) | |
| | 43 2-Butanone | 72 | 3.951 | 3.951 | (0.907) | 4681 | 5.00000 | 4.25341 | |
| | 44 1,1-Dichloropropene | 75 | 3.986 | 3.986 | (0.915) | 9858 | 1.00000 | 0.889422(a) | |
| | 45 1-Chlorobutane | 41 | 4.003 | 4.003 | (0.919) | 6906 | 1.00000 | 0.959213(a) | |
| | 46 Heptane | 71 | 4.078 | 4.078 | (0.936) | 4295 | 1.00000 | 0.838655(aQ) | |
| | 47 Benzene | 78 | 4.127 | 4.128 | (0.947) | 26389 | 1.00000 | 0.907210(a) | |
| | 48 Propionitrile | 54 | 4.104 | 4.105 | (0.942) | 4493 | 5.00000 | 4.73000(Q) | |
| | 49 Methacrylonitrile | 67 | 4.130 | 4.131 | (0.948) | 2854 | 1.00000 | 0.803462(aQM) | H |
| | 50 tert-Amyl methyl ether | 73 | 4.165 | 4.166 | (0.956) | 19739 | 1.00000 | 0.961070(a) | |
| | 54 Isobutyl alcohol | 42 | 4.168 | 4.168 | (0.957) | 1721 | 10.0000 | 8.39744(QM) | H |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.197 | 4.197 | (0.963) | 373537 | 30.0000 | 31.0744 | |
| | 52 1,2-Dichloroethane | 62 | 4.235 | 4.235 | (0.972) | 12148 | 1.00000 | 0.885136(a) | |
| | 53 tert-Amyl Alcohol | 59 | 4.246 | 4.247 | (0.975) | 4167 | 5.00000 | 5.12292(Q) | |
| * | 55 Fluorobenzene | 96 | 4.356 | 4.357 | (1.000) | 955511 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.356 | 4.357 | (1.000) | 41095 | 1.00000 | 0.968498(aQ) | |
| | 57 Trichloroethene | 95 | 4.457 | 4.458 | (1.023) | 8380 | 1.00000 | 0.940445(a) | |
| | 58 Methyl cyclohexane | 83 | 4.469 | 4.470 | (0.702) | 10658 | 1.00000 | 0.885905(a) | |
| | 59 tert-Amyl Ethylether | 59 | 4.562 | 4.562 | (1.047) | 14614 | 1.00000 | 0.831018(a) | |
| | 60 Dibromomethane | 93 | 4.715 | 4.716 | (1.082) | 5350 | 1.00000 | 0.933695(a) | |
| | 61 1,2-Dichloropropane | 63 | 4.767 | 4.768 | (1.094) | 5786 | 1.00000 | 0.912163(a) | |
| | 62 Bromodichloromethane | 83 | 4.790 | 4.791 | (1.100) | 10103 | 1.00000 | 0.826914(a) | |
| | 63 Methyl methacrylate | 41 | 4.854 | 4.855 | (1.114) | 5296 | 1.00000 | 0.939368(aM) | IH |
| | 64 1,4-Dioxane | 88 | 4.906 | 4.907 | (1.126) | 2721 | 25.0000 | 22.0121(Q) | |
| | 65 2-Chloroethylvinyl ether | 63 | 5.121 | 5.121 | (1.175) | 897 | 1.00000 | 3.00010(QM) | IH |
| | 66 cis-1,3-Dichloropropene | 75 | 5.181 | 5.182 | (0.814) | 10164 | 1.00000 | 0.975641(a) | |
| | 67 Octane | 85 | 5.193 | 5.193 | (0.816) | 3731 | 1.00000 | 0.793033(a) | |
| $ | 68 Toluene-d8 | 98 | 5.309 | 5.309 | (0.834) | 996461 | 30.0000 | 29.6440 | |
| | 69 Toluene | 92 | 5.343 | 5.344 | (0.840) | 18834 | 1.00000 | 0.912706(a) | |
| | 70 Chloroacetonitrile | 75 | 5.375 | 5.376 | (0.845) | 1948 | 5.00000 | 5.06947(QM) | H |
| | 71 2-Nitropropane | 41 | 5.474 | 5.474 | (0.860) | 10921 | 5.00000 | 4.66849 | |
| | 72 1,1-Dichloro-2-Propanone | 63 | 5.503 | 5.503 | (0.865) | 1286 | 5.00000 | 4.42272(QM) | H |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.555 | 5.555 | (0.873) | 27457 | 5.00000 | 4.78334 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.587 | 5.587 | (0.878) | 10951 | 1.00000 | 0.941499(a) | |
| | 74 Tetrachloroethene | 164 | 5.604 | 5.605 | (0.881) | 8368 | 1.00000 | 0.932817(a) | |
| | 76 Ethyl Methacrylate | 69 | 5.668 | 5.668 | (0.891) | 8230 | 1.00000 | 0.949995(aM) | H |

Data File: 2324062504.D Page 3
Report Date: 27-Jun-2024 16:07

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 1,1,2-Trichloroethane | 83 | 5.705 | 5.706 | (0.897) | 5390 | 1.00000 | 0.880234(a) | |
| 78 | Chlorodibromomethane | 129 | 5.839 | 5.839 | (0.918) | 9304 | 1.00000 | 1.00869 | |
| 79 | 1,3-Dichloropropane | 76 | 5.896 | 5.897 | (0.927) | 11404 | 1.00000 | 0.887778(a) | |
| 80 | 1,2-Dibromoethane | 107 | 6.018 | 6.019 | (0.946) | 7522 | 1.00000 | 0.839088(a) | |
| 81 | 2-Hexanone | 43 | 6.122 | 6.123 | (0.962) | 18110 | 5.00000 | 4.58620 | |
| 82 | 1-Chlorohexane | 91 | 6.331 | 6.331 | (0.995) | 9596 | 1.00000 | 0.890791(a) | |
| * 83 | Chlorobenzene-d5 | 82 | 6.363 | 6.363 | (1.000) | 421722 | 30.0000 | | |
| 84 | Chlorobenzene | 112 | 6.377 | 6.378 | (1.002) | 20837 | 1.00000 | 0.879082(a) | |
| 85 | Ethylbenzene | 106 | 6.377 | 6.378 | (1.002) | 12180 | 1.00000 | 0.975185(a) | |
| 86 | 1,1,1,2-Tetrachloroethane | 131 | 6.418 | 6.418 | (1.009) | 8386 | 1.00000 | 0.862440(a) | |
| 87 | mp-Xylene | 106 | 6.481 | 6.482 | (1.019) | 25646 | 2.00000 | 1.69832 | |
| 88 | o-Xylene | 106 | 6.797 | 6.797 | (1.068) | 12439 | 1.00000 | 0.837978(a) | |
| 89 | Styrene | 104 | 6.837 | 6.838 | (0.840) | 20380 | 1.00000 | 0.959524(a) | |
| 90 | Bromoform | 173 | 6.869 | 6.870 | (0.844) | 6236 | 1.00000 | 0.929308(a) | |
| 91 | Isopropylbenzene | 105 | 7.034 | 7.035 | (0.864) | 31713 | 1.00000 | 0.937470(a) | |
| M 100 | 1,2-Dichloroethene, Total | 61 | | | | 17098 | 2.00000 | 1.71334 | |
| $ 92 | 4-Bromofluorobenzene | 174 | 7.257 | 7.258 | (0.892) | 395203 | 30.0000 | 27.9601 | |
| 93 | Bromobenzene | 156 | 7.350 | 7.350 | (0.903) | 11311 | 1.00000 | 0.931980(a) | |
| 94 | n-Propylbenzene | 120 | 7.347 | 7.348 | (0.903) | 10310 | 1.00000 | 0.897145(aQ) | |
| 95 | 1,1,2,2-Tetrachloroethane | 83 | 7.388 | 7.388 | (0.908) | 8417 | 1.00000 | 0.838625(a) | |
| 96 | o-Chlorotoluene | 91 | 7.489 | 7.489 | (0.920) | 27907 | 1.00000 | 0.890399(a) | |
| 97 | 1,3,5-Trimethylbenzene | 105 | 7.495 | 7.495 | (0.921) | 30561 | 1.00000 | 0.901974(a) | |
| 98 | 1,2,3-Trichloropropane | 110 | 7.506 | 7.507 | (0.922) | 3554 | 1.00000 | 0.834764(a) | |
| 99 | trans-1,4-Dichloro-2-butene | 53 | 7.524 | 7.524 | (0.924) | 2713 | 1.00000 | 1.01160(QM) | MP |
| 101 | p-Chlorotoluene | 91 | 7.613 | 7.614 | (0.935) | 25958 | 1.00000 | 0.895762(a) | |
| 102 | tert-Butylbenzene | 134 | 7.755 | 7.756 | (0.953) | 7476 | 1.00000 | 0.881176(aQ) | |
| 103 | Pentachloroethane | 117 | 7.776 | 7.776 | (0.955) | 6044 | 1.00000 | 0.967379(aM) | MP |
| 104 | 1,2,4-Trimethylbenzene | 105 | 7.805 | 7.805 | (0.959) | 29295 | 1.00000 | 0.851302(a) | |
| 105 | sec-Butylbenzene | 105 | 7.894 | 7.895 | (0.970) | 34342 | 1.00000 | 0.851237(a) | |
| 106 | p-Isopropyltoluene | 134 | 8.007 | 8.007 | (0.984) | 7831 | 1.00000 | 0.803611(a) | |
| 107 | 1,3-Dichlorobenzene | 146 | 8.088 | 8.089 | (0.994) | 20448 | 1.00000 | 0.956196(a) | |
| * 108 | 1,4-Dichlorobenzene-d4 | 152 | 8.140 | 8.141 | (1.000) | 488580 | 30.0000 | (Q) | |
| 109 | 1,4-Dichlorobenzene | 146 | 8.158 | 8.157 | (1.002) | 20316 | 1.00000 | 0.926778(aQ) | |
| 110 | Benzyl Chloride | 126 | 8.352 | 8.352 | (1.026) | 3415 | 1.00000 | 0.980159(aQ) | |
| 111 | n-Butylbenzene | 134 | 8.352 | 8.352 | (1.026) | 7608 | 1.00000 | 0.843580(aQ) | |
| 112 | Hexachloroethane | 117 | 8.494 | 8.494 | (1.043) | 5536 | 1.00000 | 0.942627(a) | |
| 113 | 1,2-Dichlorobenzene | 146 | 8.508 | 8.509 | (1.045) | 18486 | 1.00000 | 0.890472(a) | |
| 114 | 1,2-Dibromo-3-chloropropane | 75 | 9.171 | 9.172 | (1.127) | 2196 | 1.00000 | 0.793230(a) | |
| 115 | Nitrobenzene | 77 | 9.646 | 9.646 | (1.185) | 5139 | 10.0000 | 23.8518 | |
| 116 | Hexachlorobutadiene | 225 | 9.721 | 9.722 | (1.194) | 6969 | 1.00000 | 0.975887(a) | |
| M 120 | 1,3-Dichloropropene, Total | 75 | | | | 21115 | 2.00000 | 1.91714 | |
| 117 | 1,2,4-Trichlorobenzene | 180 | 9.744 | 9.745 | (1.197) | 11835 | 1.00000 | 0.823938(a) | |
| M 121 | Total Xylenes | 106 | | | | 38085 | 3.00000 | 2.53630 | |
| 118 | Naphthalene | 128 | 10.014 | 10.014 | (1.230) | 27574 | 1.00000 | 0.900420(a) | |
| 119 | 1,2,3-Trichlorobenzene | 180 | 10.167 | 10.168 | (1.249) | 11698 | 1.00000 | 0.823012(a) | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



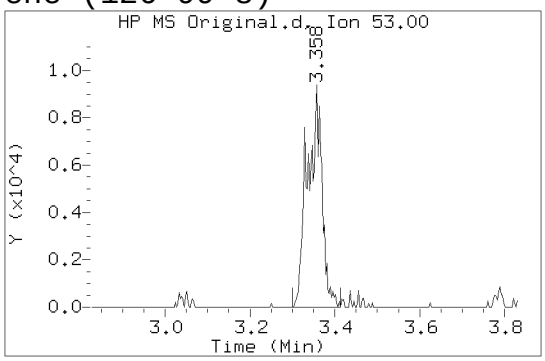

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Instrument: ms23,i
Operator: ILY
Column diameter: 0.25
Page 1

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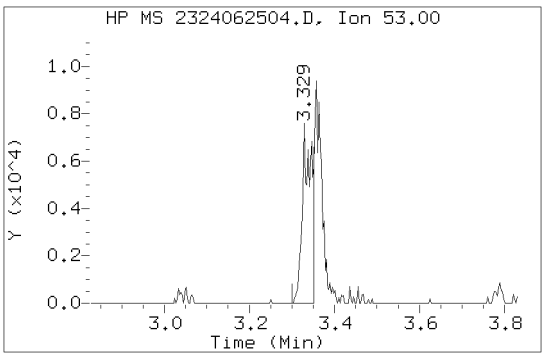
## Chloroprene (126-99-8)

Reason Code: MP

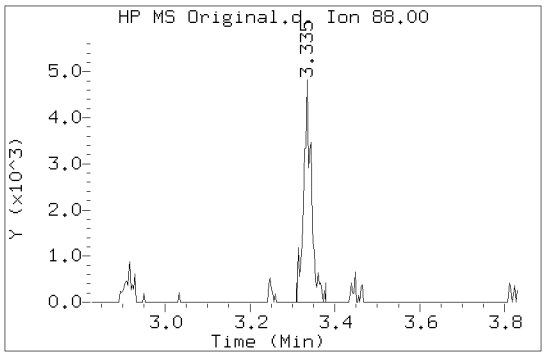
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25-Jun-2024
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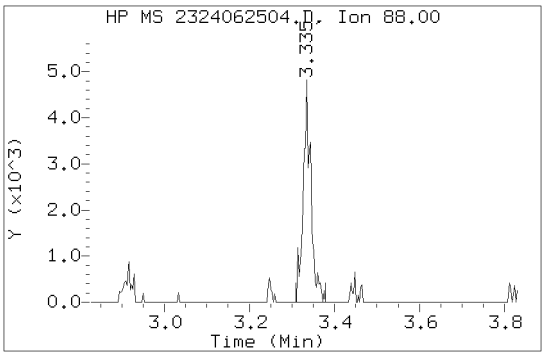

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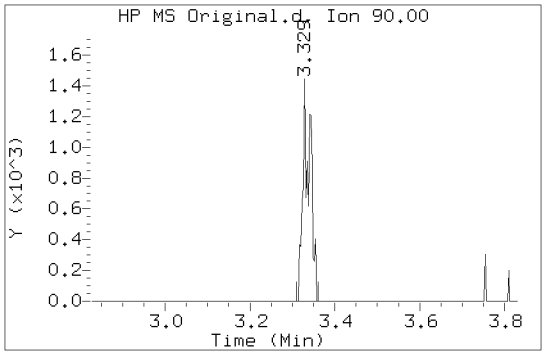

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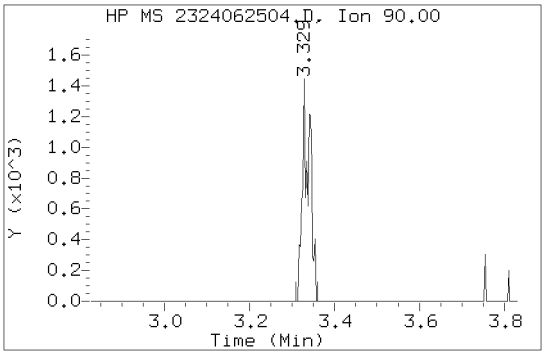

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BEFORE
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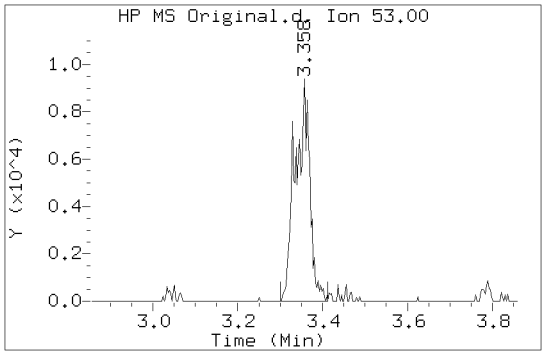

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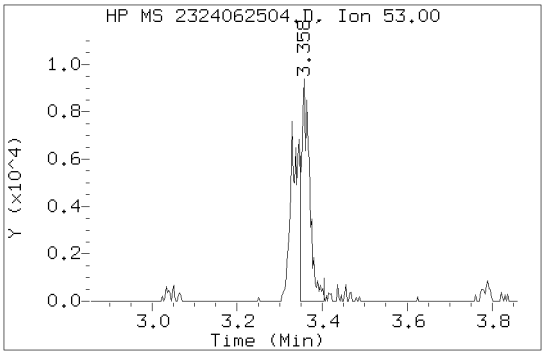

## Acrylonitrile (107-13-1)

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AFTER
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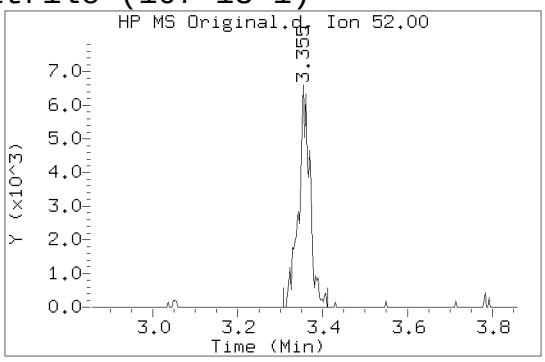


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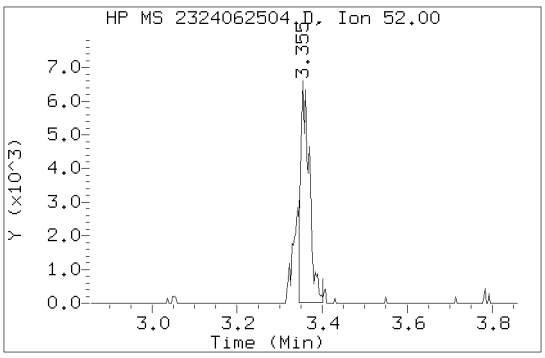
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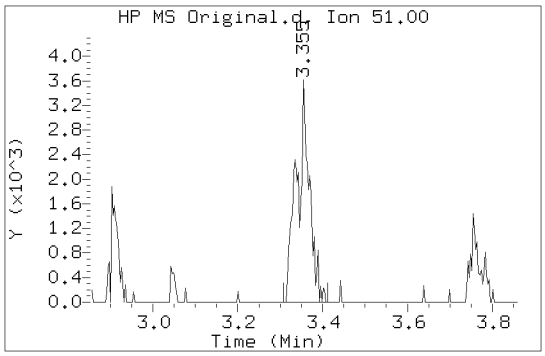
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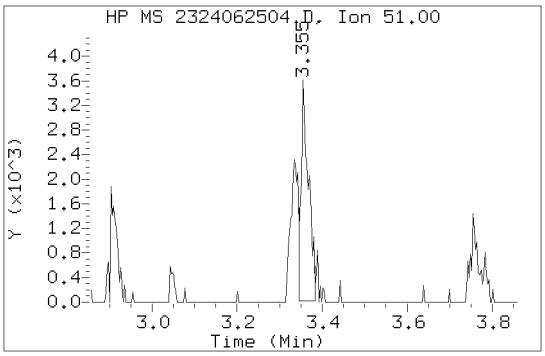

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BEFORE
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25-Jun-2024
19:54



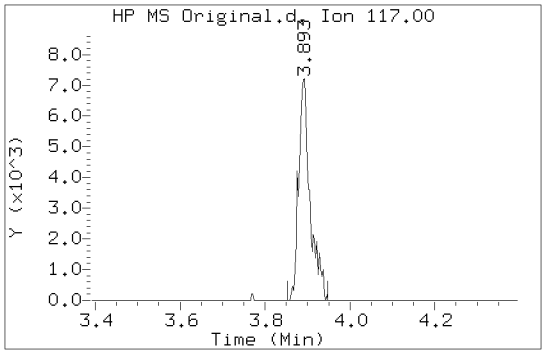

AFTER
MASS
51
AREA
4280
HEIGHT
3594
27-Jun-2024
16:07



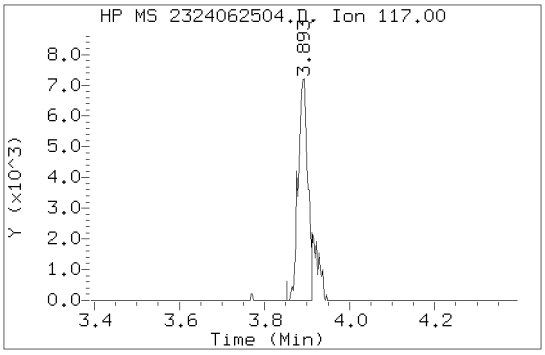

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

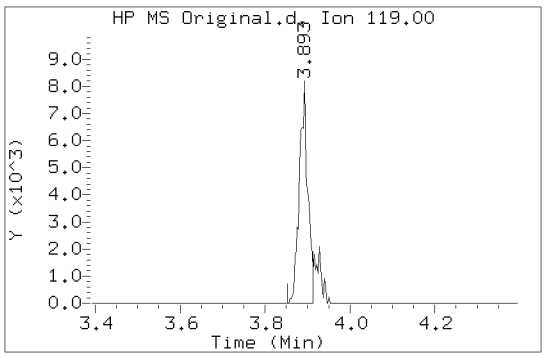
BEFORE
MASS
117
AREA
13406
HEIGHT
7217
25-Jun-2024
19:54



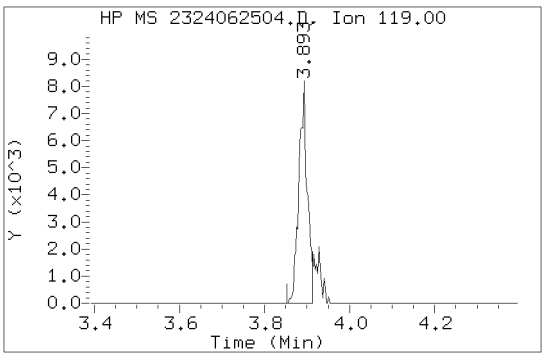

AFTER
MASS
117
AREA
11155
HEIGHT
7217
27-Jun-2024
16:07




BEFORE
MASS
119
AREA
11143
HEIGHT
8205
25-Jun-2024
19:54




AFTER
MASS
119
AREA
11143
HEIGHT
8205
27-Jun-2024
16:07



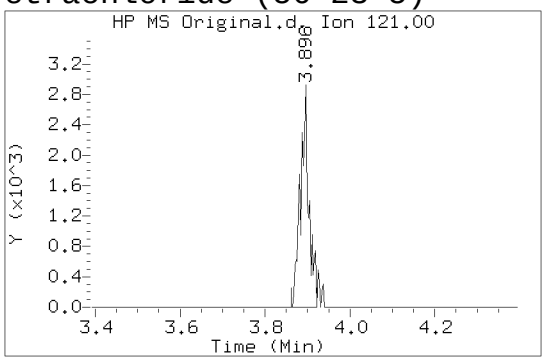
Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062504.D
Inj Date : 25-JUN-2024 12:00
InstruID : ms23.i
LabSampID : 1234

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

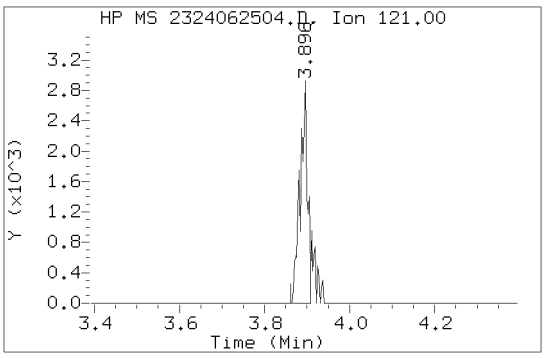
**BEFORE**

MASS
121
AREA
3890
HEIGHT
2925
25-Jun-2024
19:54




**AFTER**

MASS
121
AREA
3414
HEIGHT
2925
27-Jun-2024
16:07

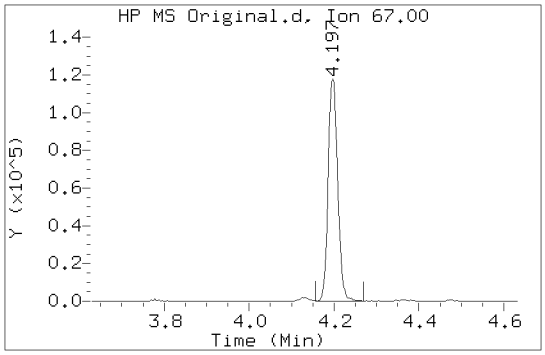



## Methacrylonitrile (126-98-7)

Reason Code: H

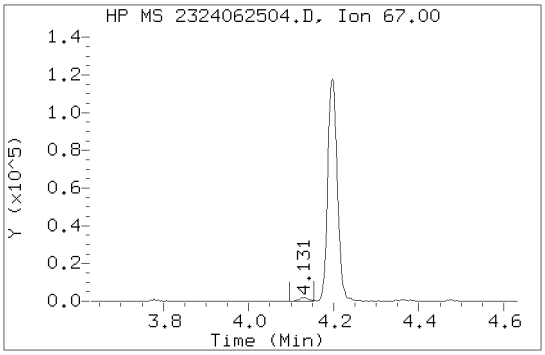
**BEFORE**

MASS
67
AREA
182848
HEIGHT
117936
25-Jun-2024
19:54



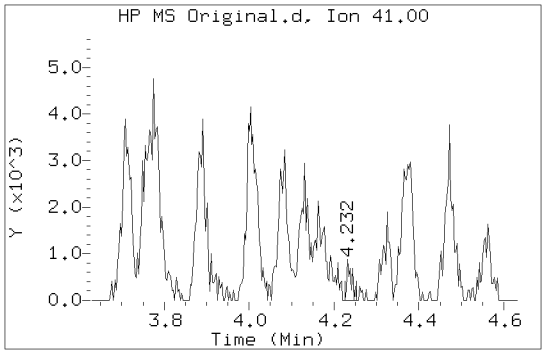

**AFTER**

MASS
67
AREA
2854
HEIGHT
2097
27-Jun-2024
16:07



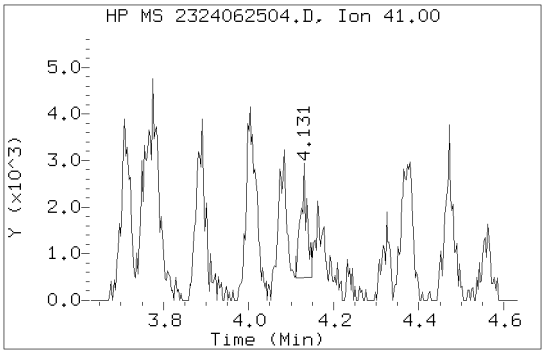

**BEFORE**

MASS
41
AREA
607
HEIGHT
883
25-Jun-2024
19:54



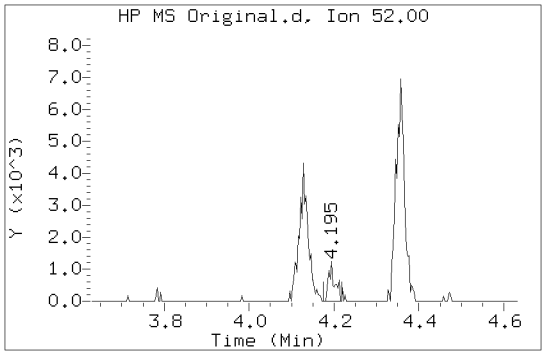

**AFTER**

MASS
41
AREA
2432
HEIGHT
2450
27-Jun-2024
16:07



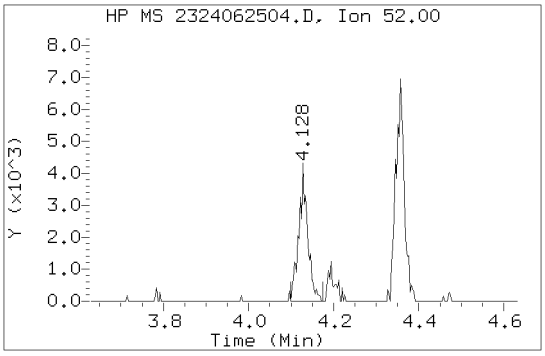

**BEFORE**

MASS
52
AREA
1212
HEIGHT
1240
25-Jun-2024
19:54




**AFTER**

MASS
52
AREA
6070
HEIGHT
4317
27-Jun-2024
16:07

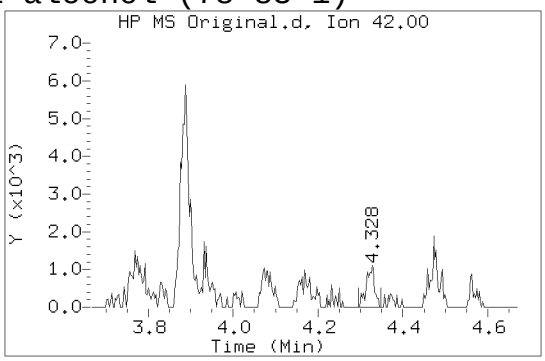


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Inj Date : 25-JUN-2024 12:00
InstruID : ms23.i
LabSampID : 1234

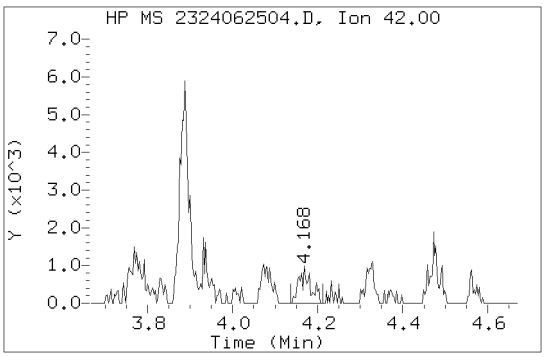
## Isobutyl alcohol (78-83-1)

Reason Code: H

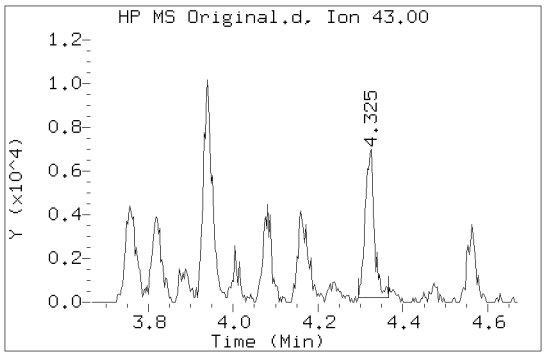
BEFORE
MASS
42
AREA
1496
HEIGHT
1104
25-Jun-2024
19:54



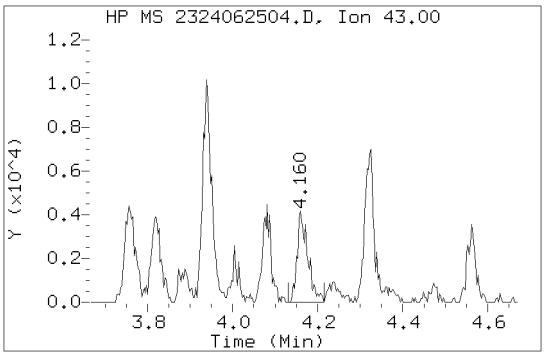

AFTER
MASS
42
AREA
1721
HEIGHT
997
27-Jun-2024
16:07



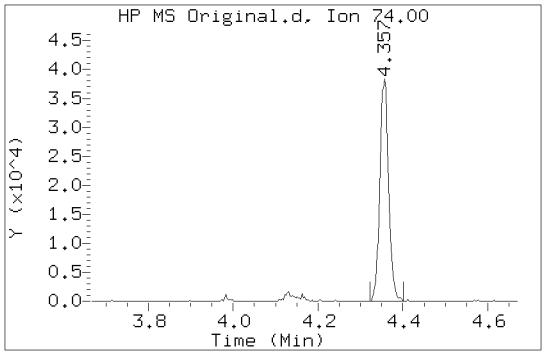

BEFORE
MASS
43
AREA
10073
HEIGHT
6802
25-Jun-2024
19:54



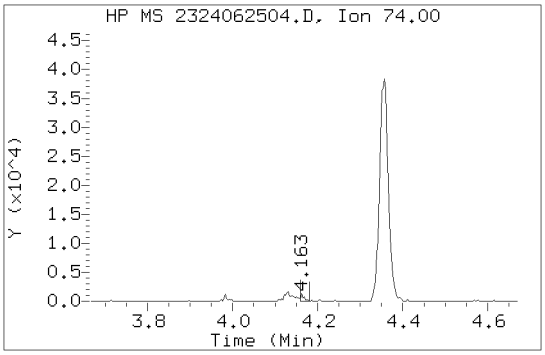

AFTER
MASS
43
AREA
7101
HEIGHT
4186
27-Jun-2024
16:07




BEFORE
MASS
74
AREA
54987
HEIGHT
38368
25-Jun-2024
19:54



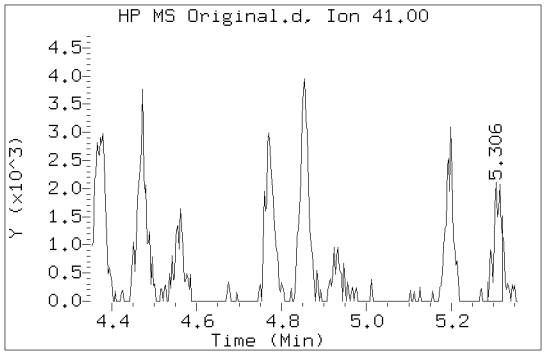

AFTER
MASS
74
AREA
648
HEIGHT
1334
27-Jun-2024
16:07



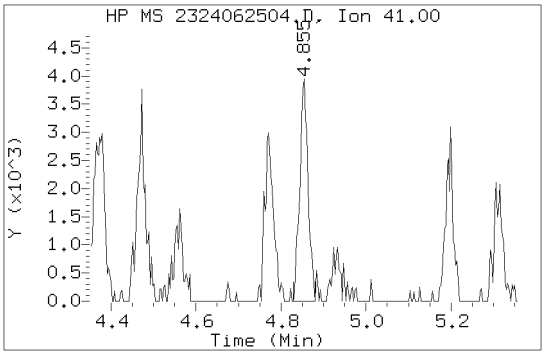

## Methyl methacrylate (80-62-6)

Reason Code: IH

BEFORE
MASS
41
AREA
2573
HEIGHT
2112
25-Jun-2024
19:54




AFTER
MASS
41
AREA
5296
HEIGHT
3948
27-Jun-2024
16:07

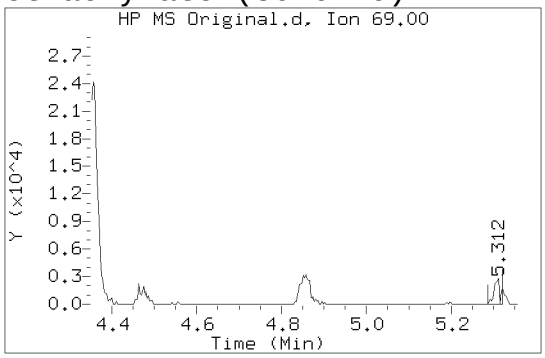


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Inj Date : 25-JUN-2024 12:00
InstruID : ms23.i
LabSampID : 1234

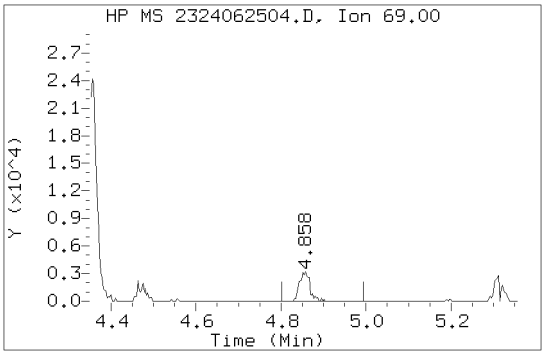
## Methyl methacrylate (80-62-6)

Reason Code: IH

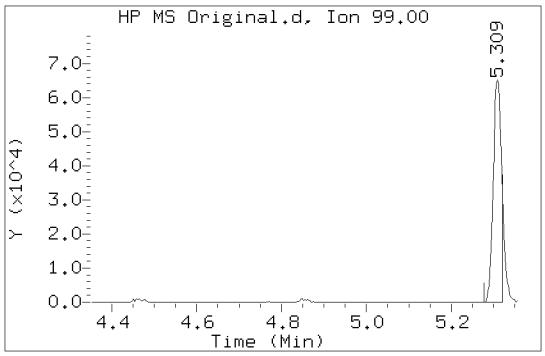
**BEFORE**
MASS
69
AREA
2887
HEIGHT
2780
25-Jun-2024
19:54



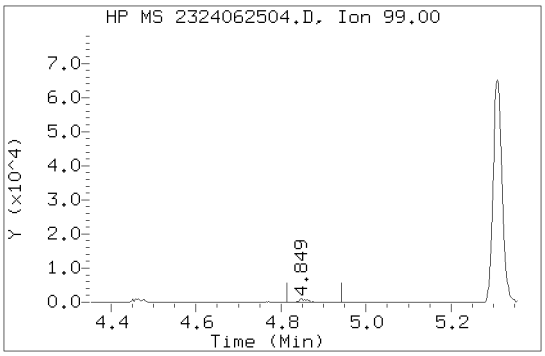

**AFTER**
MASS
69
AREA
5358
HEIGHT
3212
27-Jun-2024
16:07




**BEFORE**
MASS
99
AREA
86190
HEIGHT
65176
25-Jun-2024
19:54



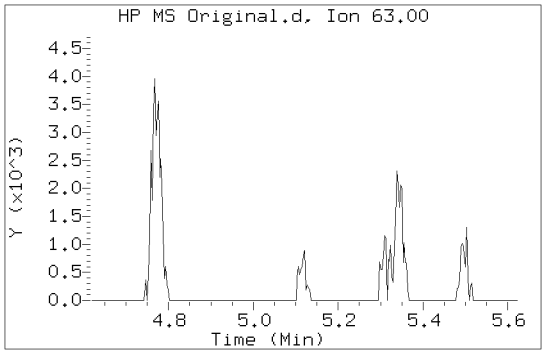

**AFTER**
MASS
99
AREA
1152
HEIGHT
1069
27-Jun-2024
16:07



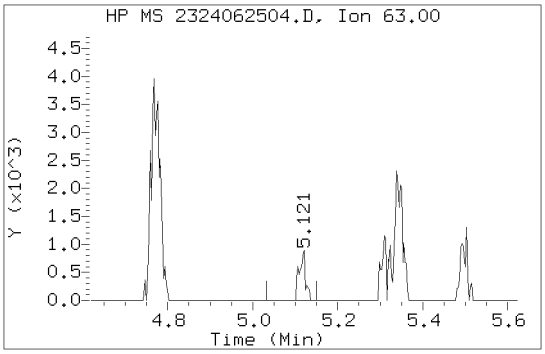

## 2-Chloroethylvinyl ether (110-75-8)

Reason Code: IH

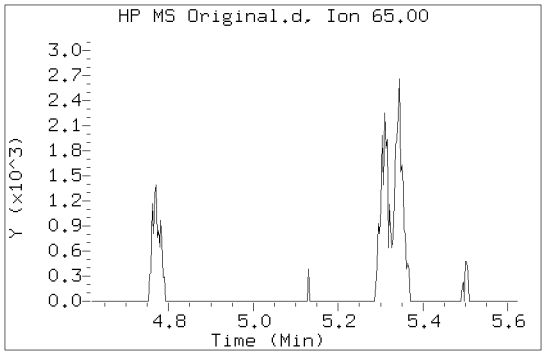
**BEFORE**
MASS
63
AREA
0
HEIGHT
0
25-Jun-2024
19:54



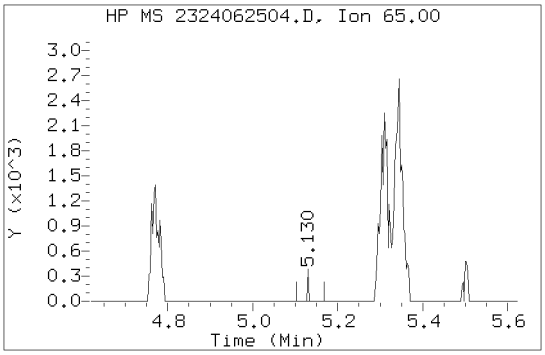

**AFTER**
MASS
63
AREA
897
HEIGHT
897
27-Jun-2024
16:07




**BEFORE**
MASS
65
AREA
0
HEIGHT
0
25-Jun-2024
19:54




**AFTER**
MASS
65
AREA
67
HEIGHT
387
27-Jun-2024
16:07

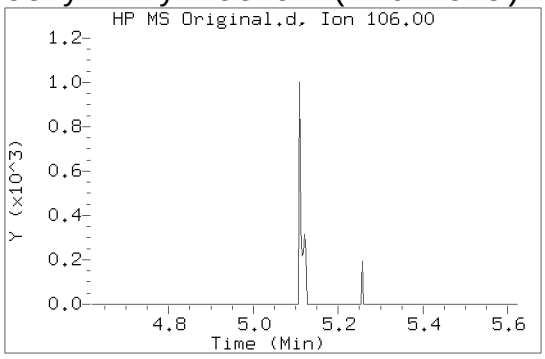


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InstruID : ms23.i
LabSampID : 1234

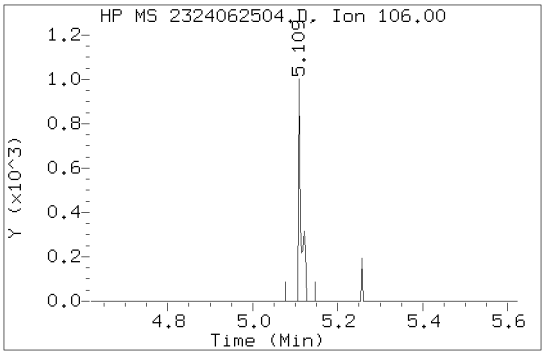
## 2-Chloroethylvinyl ether (110-75-8)

Reason Code: IH

BEFORE
MASS
106
AREA
0
HEIGHT
0
25-Jun-2024
19:54



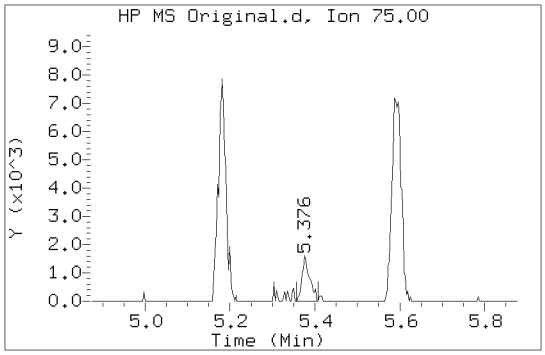

AFTER
MASS
106
AREA
406
HEIGHT
1002
27-Jun-2024
16:07



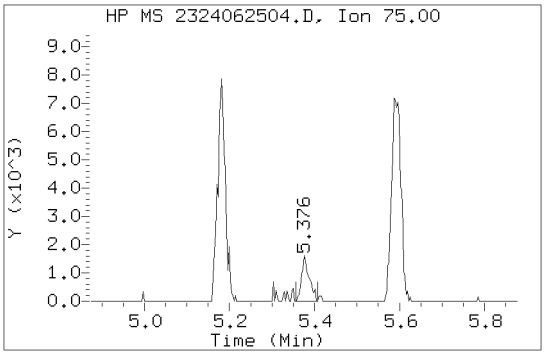

## Chloroacetonitrile (107-14-2)

Reason Code: H

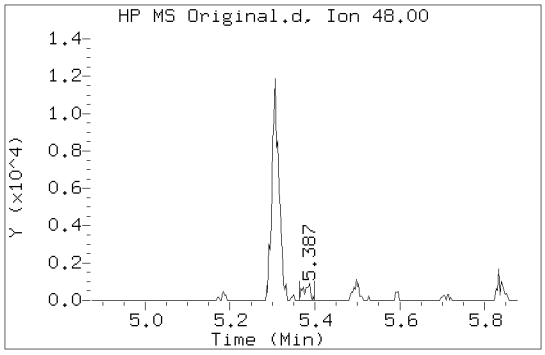
BEFORE
MASS
75
AREA
1948
HEIGHT
1606
25-Jun-2024
19:54



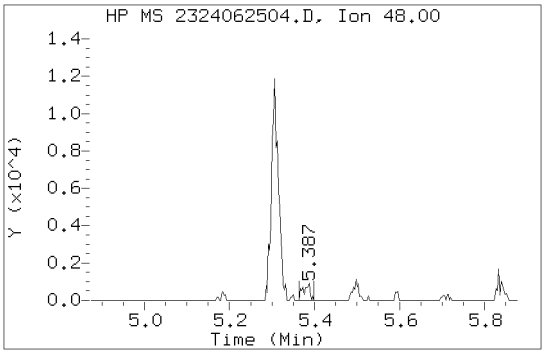

AFTER
MASS
75
AREA
1948
HEIGHT
1606
27-Jun-2024
16:07



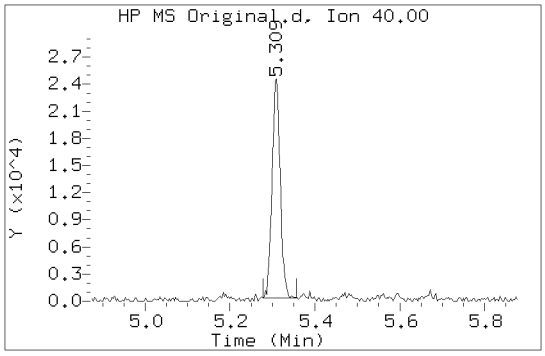

BEFORE
MASS
48
AREA
989
HEIGHT
925
25-Jun-2024
19:54



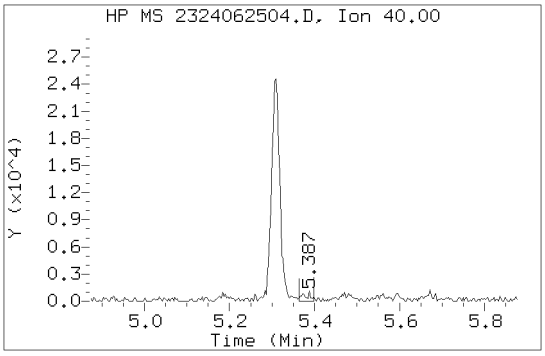

AFTER
MASS
48
AREA
989
HEIGHT
925
27-Jun-2024
16:07




BEFORE
MASS
40
AREA
31776
HEIGHT
24236
25-Jun-2024
19:54




AFTER
MASS
40
AREA
1157
HEIGHT
1106
27-Jun-2024
16:07

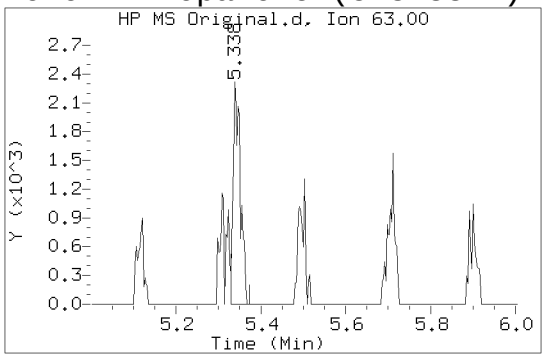


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LabSampID : 1234

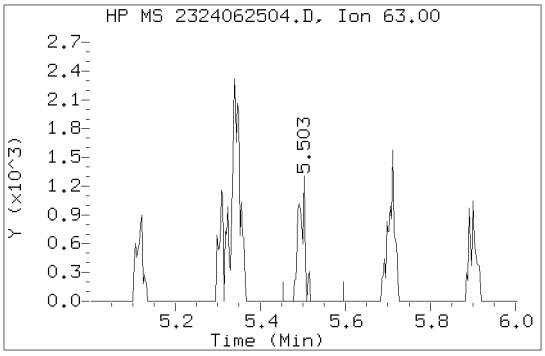
## 1,1-Dichloro-2-Propanone (513-88-2)

Reason Code: H

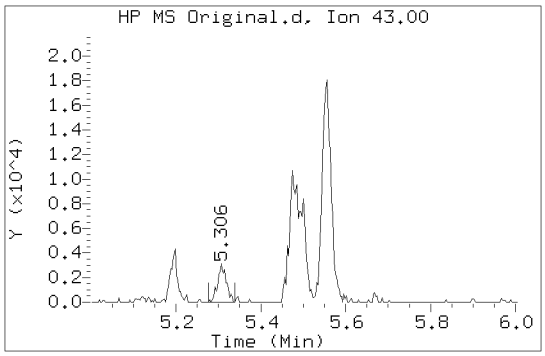
BEFORE
MASS
63
AREA
2787
HEIGHT
2318
25-Jun-2024
19:54



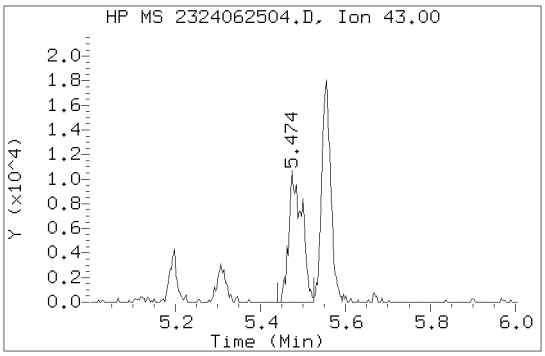

AFTER
MASS
63
AREA
1286
HEIGHT
1307
27-Jun-2024
16:07



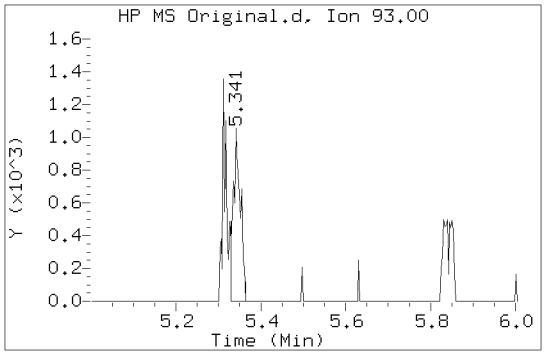

BEFORE
MASS
43
AREA
4406
HEIGHT
3118
25-Jun-2024
19:54



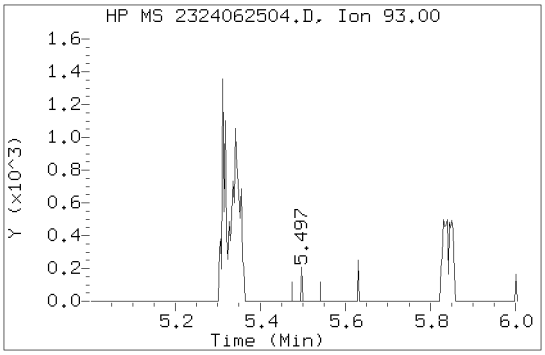

AFTER
MASS
43
AREA
23067
HEIGHT
10689
27-Jun-2024
16:07




BEFORE
MASS
93
AREA
1262
HEIGHT
1055
25-Jun-2024
19:54



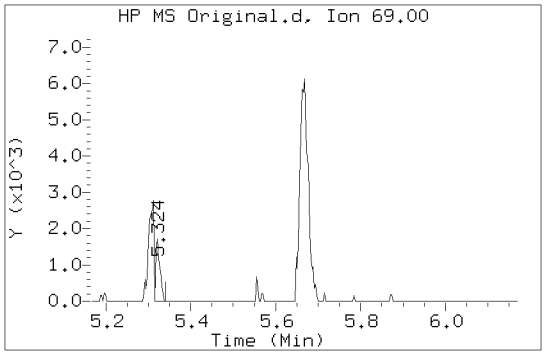

AFTER
MASS
93
AREA
36
HEIGHT
209
27-Jun-2024
16:07



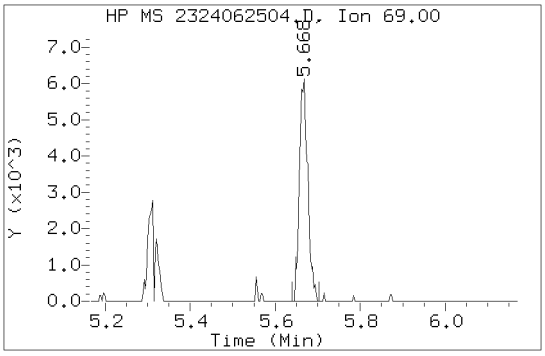

## Ethyl Methacrylate (97-63-2)

Reason Code: H

BEFORE
MASS
69
AREA
1160
HEIGHT
1174
25-Jun-2024
19:54




AFTER
MASS
69
AREA
8230
HEIGHT
6125
27-Jun-2024
16:07

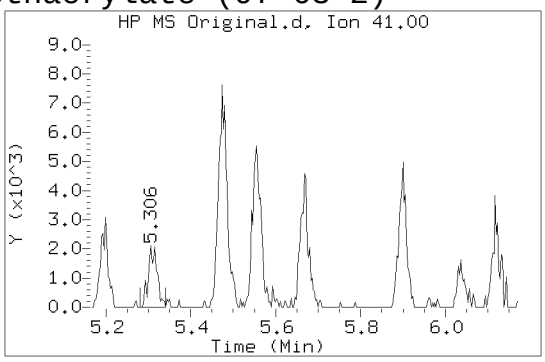


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Inj Date : 25-JUN-2024 12:00
InstruID : ms23.i
LabSampID : 1234

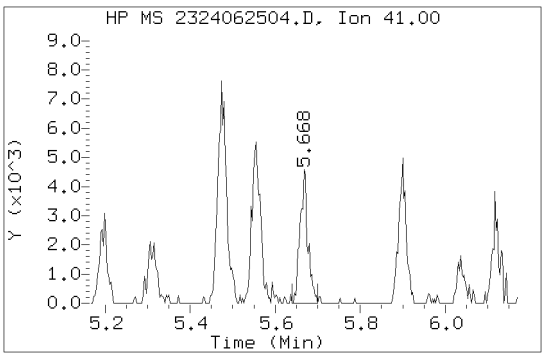
## Ethyl Methacrylate (97-63-2)

Reason Code: H

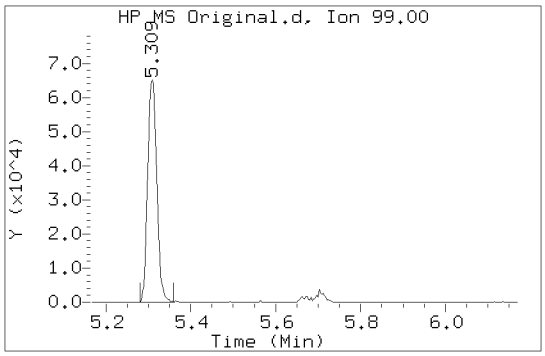
BEFORE
MASS
41
AREA
2981
HEIGHT
2112
25-Jun-2024
19:54



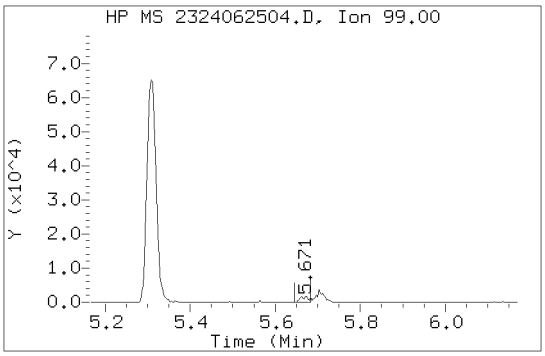

AFTER
MASS
41
AREA
5696
HEIGHT
4594
27-Jun-2024
16:07




BEFORE
MASS
99
AREA
96187
HEIGHT
65176
25-Jun-2024
19:54



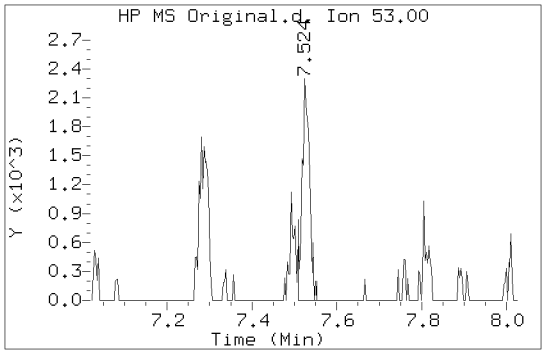

AFTER
MASS
99
AREA
2100
HEIGHT
1646
27-Jun-2024
16:07



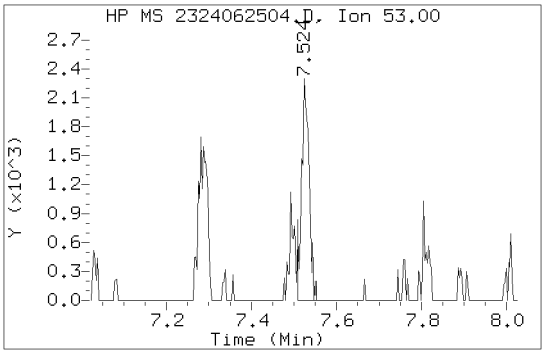

## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

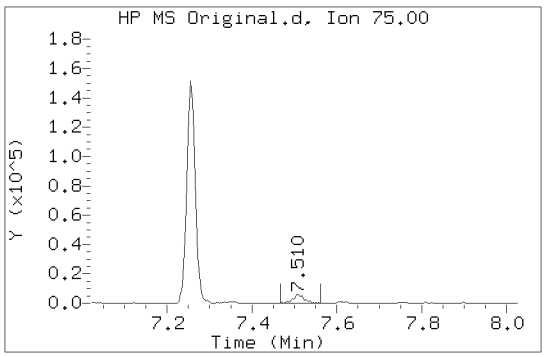
BEFORE
MASS
53
AREA
2713
HEIGHT
2298
25-Jun-2024
19:54



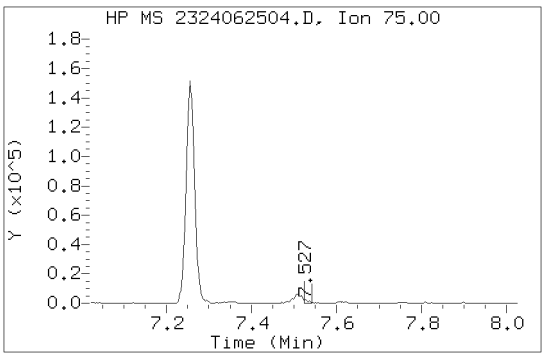

AFTER
MASS
53
AREA
2713
HEIGHT
2298
27-Jun-2024
16:07




BEFORE
MASS
75
AREA
10936
HEIGHT
6271
25-Jun-2024
19:54




AFTER
MASS
75
AREA
1690
HEIGHT
2603
27-Jun-2024
16:07



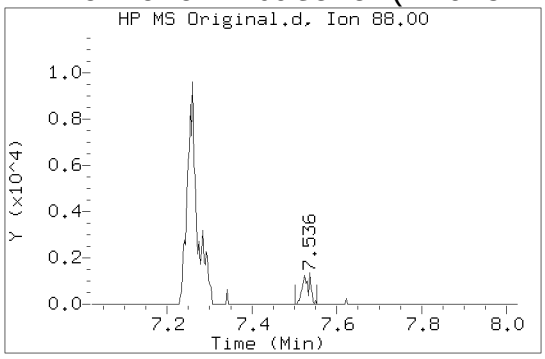
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Inj Date : 25-JUN-2024 12:00
InstruID : ms23.i
LabSampID : 1234

## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

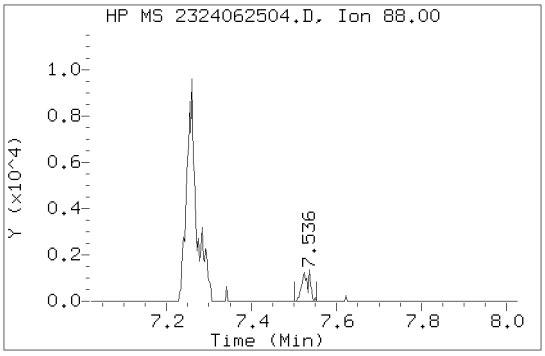
BEFORE

MASS
88
AREA
1532
HEIGHT
1350
25-Jun-2024
19:54




AFTER

MASS
88
AREA
1532
HEIGHT
1350
27-Jun-2024
16:07

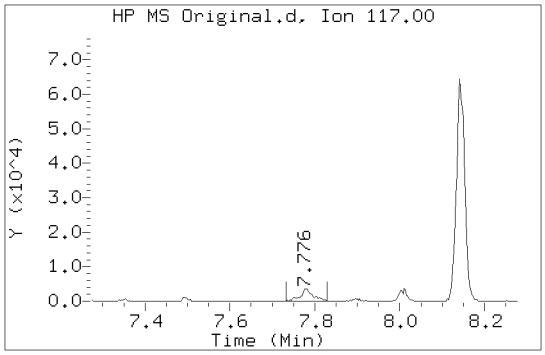



## Pentachloroethane (76-01-7)

Reason Code: MP

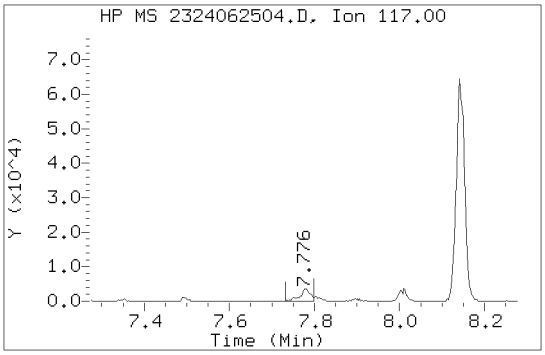
BEFORE

MASS
117
AREA
7275
HEIGHT
3600
25-Jun-2024
19:54



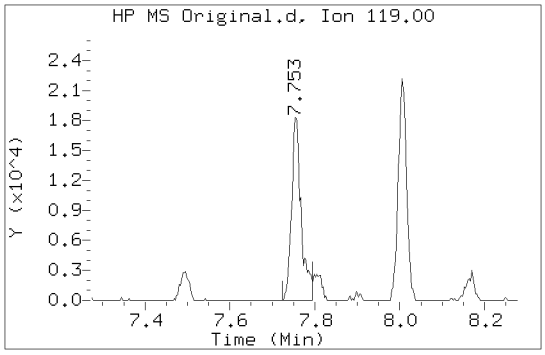

AFTER

MASS
117
AREA
6044
HEIGHT
3600
27-Jun-2024
16:07



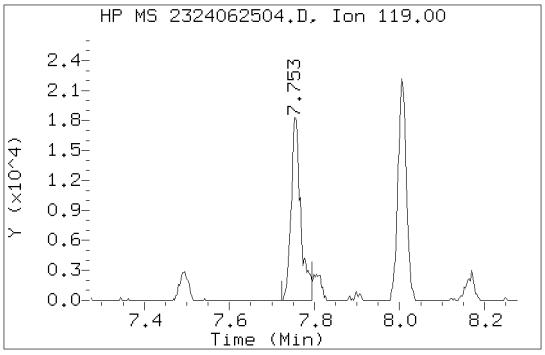

BEFORE

MASS
119
AREA
29411
HEIGHT
18264
25-Jun-2024
19:54



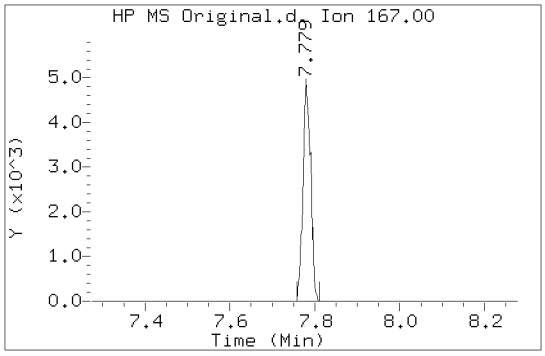

AFTER

MASS
119
AREA
29411
HEIGHT
18264
27-Jun-2024
16:07



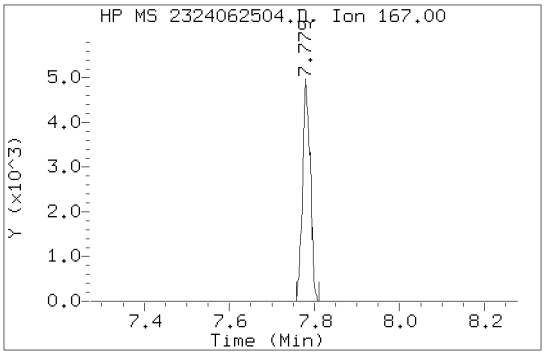

BEFORE

MASS
167
AREA
6107
HEIGHT
4975
25-Jun-2024
19:54




AFTER

MASS
167
AREA
6107
HEIGHT
4975
27-Jun-2024
16:07



# UNASSIGNED PEAK REPORT

Report Date: 06/27/2024 16:07
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240625.b/232406250
Inj Date: 25-JUN-2024 12:00
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062505.D Page 1
Report Date: 27-Jun-2024 16:15

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062505.D
Lab Smp Id: 1235
Inj Date : 25-JUN-2024 12:20
Operator : ILY Inst ID: ms23.i
Smp Info : 1235;;1;1;2;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\23-8260b09.m
Meth Date : 25-Jun-2024 20:25 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 12:20 Cal File: 2324062505.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Dichlorodifluoromethane | 85 | 1.632 | 1.632 | (0.375) | 67101 | 5.00000 | 4.89947 | |
| 2 | Chloromethane | 50 | 1.785 | 1.780 | (0.410) | 39233 | 5.00000 | 4.68876 | |
| 3 | Vinyl Chloride | 62 | 1.849 | 1.849 | (0.424) | 39059 | 5.00000 | 4.73858 | |
| 4 | Bromomethane | 94 | 2.072 | 2.072 | (0.476) | 26020 | 5.00000 | 4.18369 | |
| 5 | Chloroethane | 64 | 2.150 | 2.156 | (0.494) | 20681 | 5.00000 | 4.55977 | |
| 6 | Pentane | 41 | 2.248 | 2.252 | (0.516) | 25876 | 5.00000 | 4.66620 | |
| 7 | Trichlorofluoromethane | 101 | 2.251 | 2.255 | (0.517) | 84317 | 5.00000 | 4.80473 | |
| 8 | Dichlorofluoromethane | 67 | 2.280 | 2.278 | (0.523) | 74176 | 5.00000 | 5.00721 | |
| 9 | Ethyl Ether | 74 | 2.439 | 2.446 | (0.560) | 23305 | 5.00000 | 5.03900 | |
| 10 | 1,1-Dichloroethene | 61 | 2.576 | 2.582 | (0.591) | 51337 | 5.00000 | 4.90713 | |
| 11 | Freon 113 | 101 | 2.593 | 2.593 | (0.595) | 35198 | 5.00000 | 4.94609 | |
| 12 | Carbon Disulfide | 76 | 2.619 | 2.619 | (0.601) | 101524 | 5.00000 | 5.00303 | |
| 13 | Iodomethane | 127 | 2.677 | 2.686 | (0.615) | 13893 | 5.00000 | 3.66926 | |
| 14 | Acrolein | 56 | 2.764 | 2.767 | (0.634) | 33519 | 25.0000 | 25.4808 | |
| 15 | Isopropyl Alcohol | 45 | 2.816 | 2.819 | (0.646) | 13708 | 25.0000 | 23.4193 | |
| 16 | 3-Chloro-1-propene | 41 | 2.851 | 2.848 | (0.654) | 35943 | 5.00000 | 4.67403 | |
| 17 | Methylene Chloride | 84 | 2.911 | 2.909 | (0.668) | 38308 | 5.00000 | 5.05307 | |
| 18 | Acetone | 58 | 2.917 | 2.923 | (0.670) | 17666 | 25.0000 | 25.2782 | |
| 19 | Methyl acetate | 74 | 2.984 | 2.999 | (0.685) | 8544 | 5.00000 | 4.85627(Q) | |
| 20 | trans-1,2-Dichloroethene | 61 | 3.004 | 3.005 | (0.690) | 48659 | 5.00000 | 5.07329 | |
| 21 | Hexane | 57 | 3.047 | 3.042 | (0.700) | 66958 | 5.00000 | 4.70739 | |
| 22 | Methyl t-Butyl Ether | 73 | 3.047 | 3.051 | (0.700) | 129835 | 5.00000 | 5.07138 | |

Data File: 2324062505.D Page 2
Report Date: 27-Jun-2024 16:15

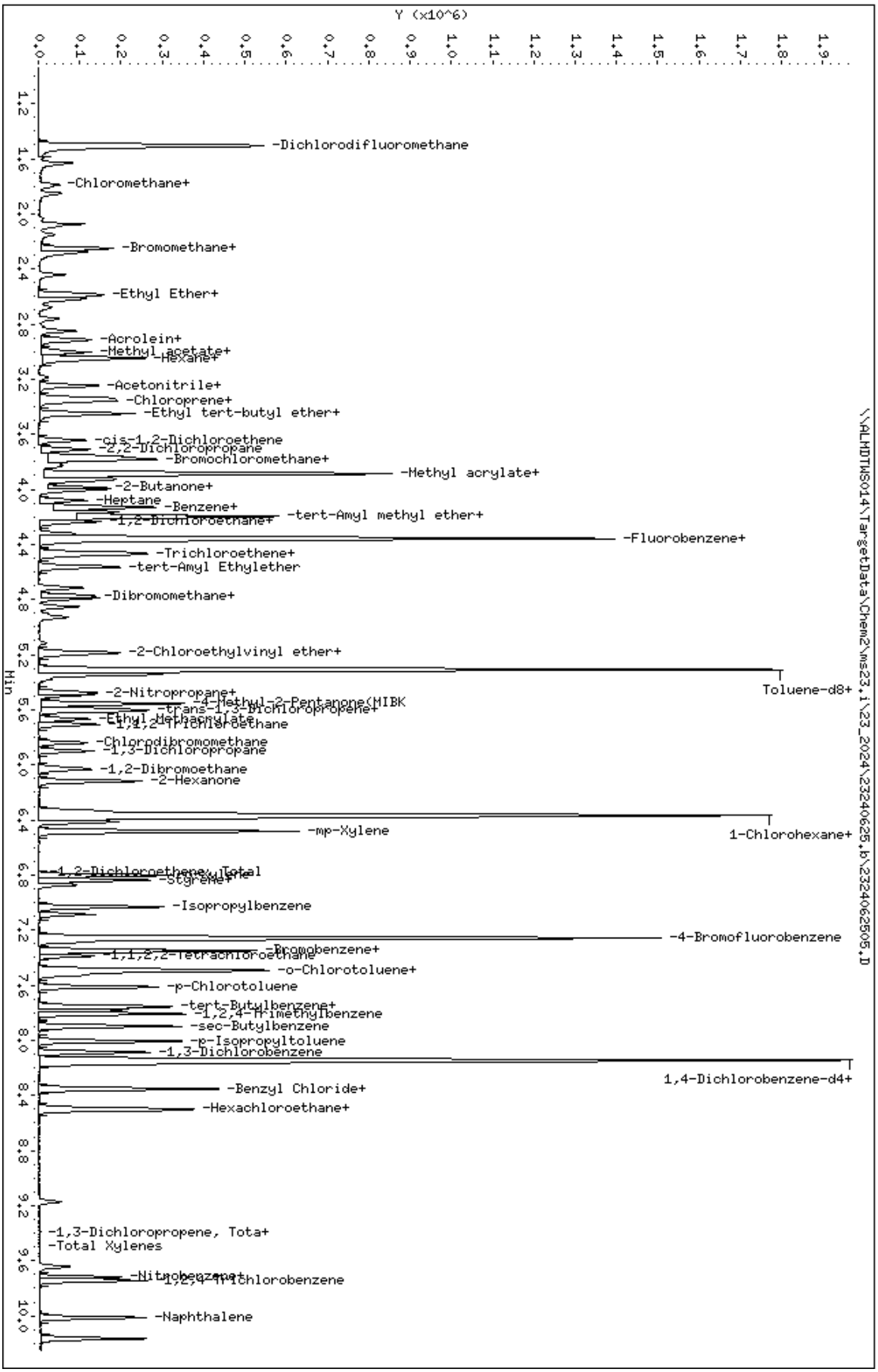
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 23 tert.- Butyl Alcohol | 59 | 3.071 | 3.065 | (0.705) | 24170 | 25.0000 | 22.6624 | |
| | 24 Acetonitrile | 41 | 3.184 | 3.187 | (0.731) | 19641 | 25.0000 | 24.4020 | |
| | 25 Diisopropyl ether | 45 | 3.250 | 3.245 | (0.746) | 92808 | 5.00000 | 5.24076 | |
| | 26 Chloroprene | 53 | 3.331 | 3.329 | (0.765) | 53093 | 5.00000 | 4.52559 | |
| | 27 1,1-Dichloroethane | 63 | 3.346 | 3.346 | (0.768) | 62741 | 5.00000 | 4.78953 | |
| | 28 Acrylonitrile | 53 | 3.357 | 3.358 | (0.771) | 76325 | 25.0000 | 22.6992(M) | MP |
| | 29 Ethyl tert-butyl ether | 59 | 3.450 | 3.448 | (0.792) | 113573 | 5.00000 | 4.64548 | |
| | 30 n-Propanol | 41 | 3.444 | 3.448 | (0.791) | 21472 | 50.0000 | 51.8113(Q) | |
| | 31 Vinyl Acetate | 86 | 3.450 | 3.442 | (0.792) | 8615 | 5.00000 | 4.07460(Q) | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.644 | 3.641 | (0.837) | 50079 | 5.00000 | 5.04643(M) | I |
| | 33 2,2-Dichloropropane | 77 | 3.710 | 3.714 | (0.852) | 67395 | 5.00000 | 5.14566(M) | MP |
| | 34 Bromochloromethane | 128 | 3.760 | 3.754 | (0.863) | 24131 | 5.00000 | 5.03660 | |
| | 35 Cyclohexane | 84 | 3.777 | 3.789 | (0.867) | 56520 | 5.00000 | 5.07810 | |
| | 36 Chloroform | 83 | 3.783 | 3.775 | (0.868) | 83720 | 5.00000 | 5.02955 | |
| | 37 Ethyl Acetate | 43 | 3.818 | 3.818 | (0.876) | 35524 | 5.00000 | 4.85582 | |
| | 38 Methyl acrylate | 55 | 3.835 | 3.830 | (0.880) | 32477 | 5.00000 | 4.41934 | |
| | 39 Carbon Tetrachloride | 117 | 3.893 | 3.893 | (0.894) | 68615 | 5.00000 | 4.75037(M) | MP |
| $ | 41 Dibromofluoromethane | 113 | 3.884 | 3.885 | (0.892) | 274370 | 30.0000 | 29.9047 | |
| | 40 Tetrahydrofuran | 42 | 3.884 | 3.888 | (0.892) | 49097 | 25.0000 | 25.3942 | |
| | 42 1,1,1-Trichloroethane | 97 | 3.922 | 3.922 | (0.900) | 79272 | 5.00000 | 5.21042 | |
| | 43 2-Butanone | 72 | 3.936 | 3.951 | (0.904) | 27068 | 25.0000 | 25.1719 | |
| | 44 1,1-Dichloropropene | 75 | 3.986 | 3.986 | (0.915) | 55129 | 5.00000 | 5.09049 | |
| | 45 1-Chlorobutane | 41 | 4.006 | 4.003 | (0.920) | 34079 | 5.00000 | 4.84436 | |
| | 46 Heptane | 71 | 4.081 | 4.078 | (0.937) | 26168 | 5.00000 | 5.22940 | |
| | 47 Benzene | 78 | 4.130 | 4.128 | (0.948) | 146934 | 5.00000 | 5.16973 | |
| | 48 Propionitrile | 54 | 4.113 | 4.105 | (0.944) | 26997 | 25.0000 | 22.5607 | |
| | 49 Methacrylonitrile | 67 | 4.127 | 4.131 | (0.947) | 17900 | 5.00000 | 5.15734 | |
| | 50 tert-Amyl methyl ether | 73 | 4.162 | 4.166 | (0.955) | 117980 | 5.00000 | 4.76596 | |
| | 54 Isobutyl alcohol | 42 | 4.162 | 4.168 | (0.955) | 6416 | 50.0000 | 31.9477(Q) | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.194 | 4.197 | (0.963) | 356553 | 30.0000 | 30.3566 | |
| | 52 1,2-Dichloroethane | 62 | 4.235 | 4.235 | (0.972) | 67295 | 5.00000 | 5.01821 | |
| | 53 tert-Amyl Alcohol | 59 | 4.235 | 4.247 | (0.972) | 17207 | 25.0000 | 21.6501 | |
| * | 55 Fluorobenzene | 96 | 4.356 | 4.357 | (1.000) | 933630 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.374 | 4.357 | (1.004) | 98758 | 5.00000 | 4.88582 | |
| | 57 Trichloroethene | 95 | 4.457 | 4.458 | (1.023) | 43497 | 5.00000 | 4.99585 | |
| | 58 Methyl cyclohexane | 83 | 4.469 | 4.470 | (0.702) | 60268 | 5.00000 | 5.18443 | |
| | 59 tert-Amyl Ethylether | 59 | 4.565 | 4.562 | (1.048) | 85462 | 5.00000 | 4.97365 | |
| | 60 Dibromomethane | 93 | 4.712 | 4.716 | (1.082) | 27772 | 5.00000 | 4.96043 | |
| | 61 1,2-Dichloropropane | 63 | 4.770 | 4.768 | (1.095) | 30359 | 5.00000 | 4.89827 | |
| | 62 Bromodichloromethane | 83 | 4.793 | 4.791 | (1.100) | 59629 | 5.00000 | 4.99492 | |
| | 63 Methyl methacrylate | 41 | 4.848 | 4.855 | (1.113) | 33049 | 5.00000 | 4.68627 | |
| | 64 1,4-Dioxane | 88 | 4.906 | 4.907 | (1.126) | 14018 | 125.000 | 116.059 | |
| | 65 2-Chloroethylvinyl ether | 63 | 5.118 | 5.121 | (1.175) | 6260 | 5.00000 | 4.65121 | |
| | 66 cis-1,3-Dichloropropene | 75 | 5.181 | 5.182 | (0.814) | 63118 | 5.00000 | 4.67729 | |
| | 67 Octane | 85 | 5.199 | 5.193 | (0.817) | 23545 | 5.00000 | 5.17926 | |
| $ | 68 Toluene-d8 | 98 | 5.306 | 5.309 | (0.834) | 981039 | 30.0000 | 30.2041 | |
| | 69 Toluene | 92 | 5.343 | 5.344 | (0.839) | 100409 | 5.00000 | 5.03575 | |
| | 70 Chloroacetonitrile | 75 | 5.381 | 5.376 | (0.845) | 12126 | 25.0000 | 21.3237 | |
| | 71 2-Nitropropane | 41 | 5.474 | 5.474 | (0.860) | 69519 | 25.0000 | 21.9136 | |
| | 72 1,1-Dichloro-2-Propanone | 63 | 5.503 | 5.503 | (0.864) | 6903 | 25.0000 | 24.5691(Q) | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.555 | 5.555 | (0.873) | 166149 | 25.0000 | 23.8118 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.592 | 5.587 | (0.879) | 66164 | 5.00000 | 4.68804 | |
| | 74 Tetrachloroethene | 164 | 5.610 | 5.605 | (0.881) | 44440 | 5.00000 | 5.12686 | |
| | 76 Ethyl Methacrylate | 69 | 5.671 | 5.668 | (0.891) | 51811 | 5.00000 | 4.54748 | |

Data File: 2324062505.D Page 3
Report Date: 27-Jun-2024 16:15

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 1,1,2-Trichloroethane | 83 | 5.708 | 5.706 | (0.897) | 31521 | 5.00000 | 5.32737 | |
| 78 | Chlorodibromomethane | 129 | 5.839 | 5.839 | (0.917) | 52711 | 5.00000 | 4.62509 | |
| 79 | 1,3-Dichloropropane | 76 | 5.899 | 5.897 | (0.927) | 63835 | 5.00000 | 5.14291 | |
| 80 | 1,2-Dibromoethane | 107 | 6.018 | 6.019 | (0.945) | 43095 | 5.00000 | 4.97512 | |
| 81 | 2-Hexanone | 43 | 6.117 | 6.123 | (0.961) | 119861 | 25.0000 | 23.4814 | |
| 82 | 1-Chlorohexane | 91 | 6.337 | 6.331 | (0.995) | 51260 | 5.00000 | 4.92456 | |
| * 83 | Chlorobenzene-d5 | 82 | 6.366 | 6.363 | (1.000) | 407496 | 30.0000 | | |
| 84 | Chlorobenzene | 112 | 6.377 | 6.378 | (1.002) | 119181 | 5.00000 | 5.20360 | |
| 85 | Ethylbenzene | 106 | 6.380 | 6.378 | (1.002) | 60457 | 5.00000 | 5.00944 | |
| 86 | 1,1,1,2-Tetrachloroethane | 131 | 6.415 | 6.418 | (1.008) | 47085 | 5.00000 | 5.01141 | |
| 87 | mp-Xylene | 106 | 6.484 | 6.482 | (1.019) | 149705 | 10.0000 | 10.2598 | |
| 88 | o-Xylene | 106 | 6.800 | 6.797 | (1.068) | 72775 | 5.00000 | 5.07379 | |
| 89 | Styrene | 104 | 6.837 | 6.838 | (0.840) | 119222 | 5.00000 | 5.06496 | |
| 90 | Bromoform | 173 | 6.869 | 6.870 | (0.844) | 37264 | 5.00000 | 4.56818 | |
| 91 | Isopropylbenzene | 105 | 7.031 | 7.035 | (0.863) | 175788 | 5.00000 | 5.16466 | |
| M 100 | 1,2-Dichloroethene, Total | 61 | | | | 98738 | 10.0000 | 10.1197 | |
| $ 92 | 4-Bromofluorobenzene | 174 | 7.254 | 7.258 | (0.891) | 410974 | 30.0000 | 32.4564 | |
| 93 | Bromobenzene | 156 | 7.347 | 7.350 | (0.902) | 55742 | 5.00000 | 5.12690 | |
| 94 | n-Propylbenzene | 120 | 7.350 | 7.348 | (0.903) | 54830 | 5.00000 | 5.32586 | |
| 95 | 1,1,2,2-Tetrachloroethane | 83 | 7.388 | 7.388 | (0.907) | 47106 | 5.00000 | 5.23907 | |
| 96 | o-Chlorotoluene | 91 | 7.486 | 7.489 | (0.919) | 147872 | 5.00000 | 5.26653 | |
| 97 | 1,3,5-Trimethylbenzene | 105 | 7.495 | 7.495 | (0.920) | 164504 | 5.00000 | 5.41963 | |
| 98 | 1,2,3-Trichloropropane | 110 | 7.506 | 7.507 | (0.922) | 20243 | 5.00000 | 5.30748 | |
| 99 | trans-1,4-Dichloro-2-butene | 53 | 7.527 | 7.524 | (0.924) | 15498 | 5.00000 | 4.65065(M) | MP |
| 101 | p-Chlorotoluene | 91 | 7.613 | 7.614 | (0.935) | 138236 | 5.00000 | 5.32488 | |
| 102 | tert-Butylbenzene | 134 | 7.758 | 7.756 | (0.953) | 41018 | 5.00000 | 5.39678 | |
| 103 | Pentachloroethane | 117 | 7.776 | 7.776 | (0.955) | 35239 | 5.00000 | 5.10913(M) | MP |
| 104 | 1,2,4-Trimethylbenzene | 105 | 7.807 | 7.805 | (0.959) | 167337 | 5.00000 | 5.42812 | |
| 105 | sec-Butylbenzene | 105 | 7.897 | 7.895 | (0.970) | 193170 | 5.00000 | 5.34480 | |
| 106 | p-Isopropyltoluene | 134 | 8.010 | 8.007 | (0.984) | 46393 | 5.00000 | 5.31433 | |
| 107 | 1,3-Dichlorobenzene | 146 | 8.085 | 8.089 | (0.993) | 102040 | 5.00000 | 5.32640 | |
| * 108 | 1,4-Dichlorobenzene-d4 | 152 | 8.143 | 8.141 | (1.000) | 437692 | 30.0000 | (Q) | |
| 109 | 1,4-Dichlorobenzene | 146 | 8.158 | 8.157 | (1.002) | 102251 | 5.00000 | 5.20681 | |
| 110 | Benzyl Chloride | 126 | 8.349 | 8.352 | (1.025) | 21121 | 5.00000 | 4.75111(Q) | |
| 111 | n-Butylbenzene | 134 | 8.355 | 8.352 | (1.026) | 43835 | 5.00000 | 5.42555(Q) | |
| 112 | Hexachloroethane | 117 | 8.494 | 8.494 | (1.043) | 31171 | 5.00000 | 4.73738 | |
| 113 | 1,2-Dichlorobenzene | 146 | 8.505 | 8.509 | (1.044) | 97722 | 5.00000 | 5.25457 | |
| 114 | 1,2-Dibromo-3-chloropropane | 75 | 9.171 | 9.172 | (1.126) | 11872 | 5.00000 | 4.78694 | |
| 115 | Nitrobenzene | 77 | 9.640 | 9.646 | (1.184) | 30738 | 50.0000 | 47.5077 | |
| 116 | Hexachlorobutadiene | 225 | 9.718 | 9.722 | (1.193) | 34951 | 5.00000 | 5.46331 | |
| M 120 | 1,3-Dichloropropene, Total | 75 | | | | 129282 | 10.0000 | 9.36533 | |
| 117 | 1,2,4-Trichlorobenzene | 180 | 9.744 | 9.745 | (1.197) | 68122 | 5.00000 | 5.29396 | |
| M 121 | Total Xylenes | 106 | | | | 222480 | 15.0000 | 15.3336 | |
| 118 | Naphthalene | 128 | 10.014 | 10.014 | (1.230) | 166588 | 5.00000 | 4.81458 | |
| 119 | 1,2,3-Trichlorobenzene | 180 | 10.164 | 10.168 | (1.248) | 62572 | 5.00000 | 4.91407 | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

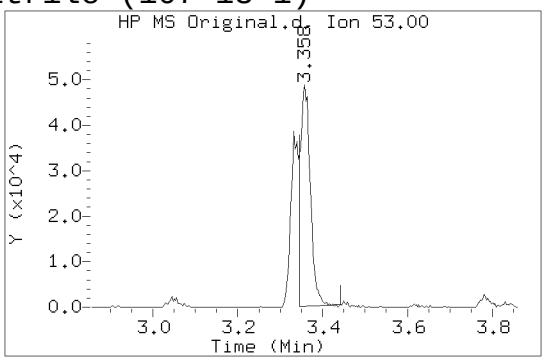

Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane+
-Bromomethane+
-Ethyl Ether+
-Acrolein+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Methyl acrylate+
-2-Butanone+
-Heptane
-Benzene+
-tert-Amyl methyl ether+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane+
-2-Chloroethylvinyl ether+
Toluene-d8+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
1-Chlorohexane+
-mp-Xylene
-1,2-Dichloroethene, Total
-Styrene+
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-1,1,2,2-Tetrachloroethane
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-Hexachloroethane+
-1,3-Dichloropropene, Tota+
-Total Xylenes
-Nitrobenzene+
1,2,4-Trichlorobenzene
-Naphthalene
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Date : 25-JUN-2024 12:20
Client ID:
Sample Info: 1235;;1;1;2;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms23,i
Operator: ILY
Column diameter: 0.25
Page 1

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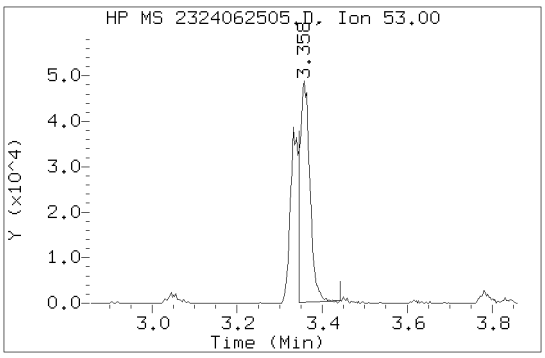
## Acrylonitrile (107-13-1)

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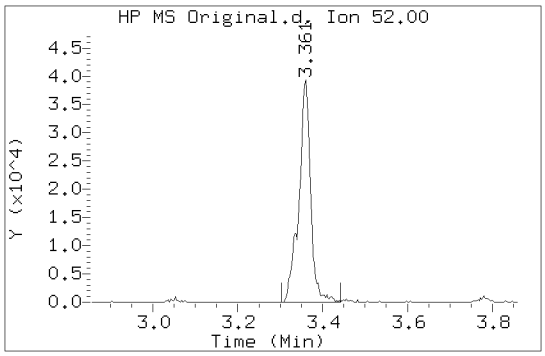
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HEIGHT
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25-Jun-2024
19:49



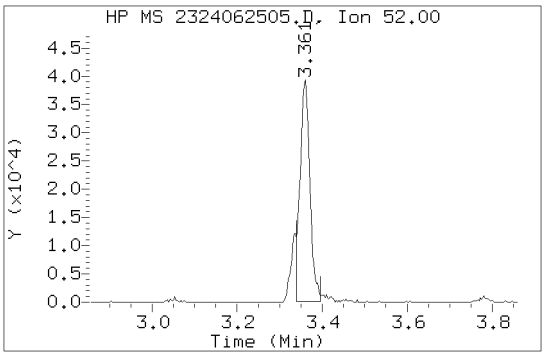

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27-Jun-2024
16:15



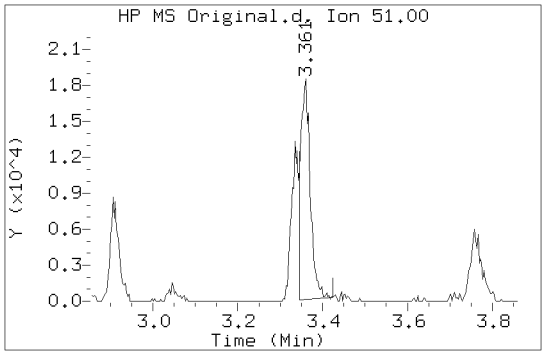

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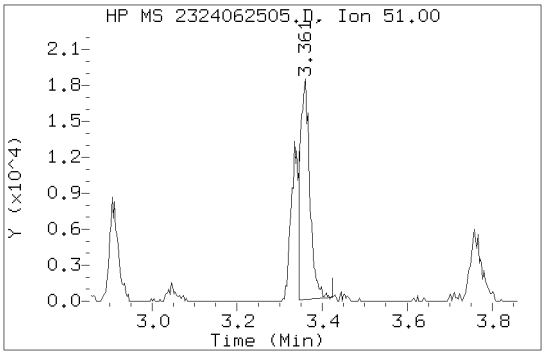

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16:15




BEFORE
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25-Jun-2024
19:49



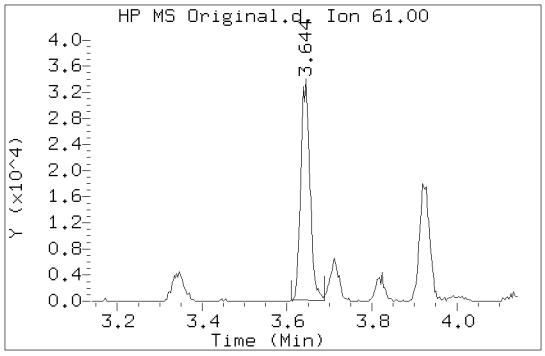

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27-Jun-2024
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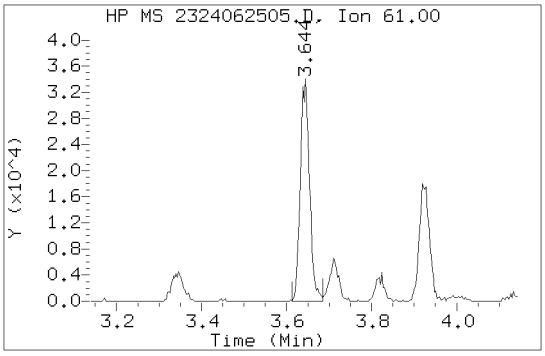

## cis-1,2-Dichloroethene (156-59-2)

Reason Code: I

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HEIGHT
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25-Jun-2024
19:49




AFTER
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AREA
50079
HEIGHT
34040
27-Jun-2024
16:15

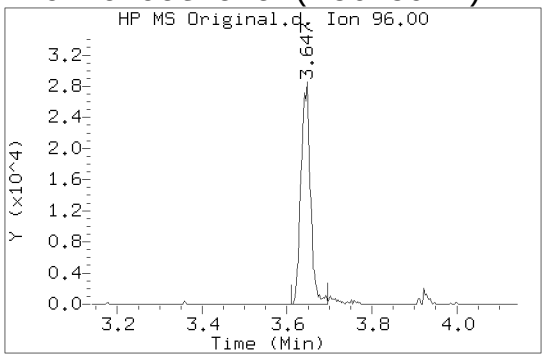


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LabSampID : 1235

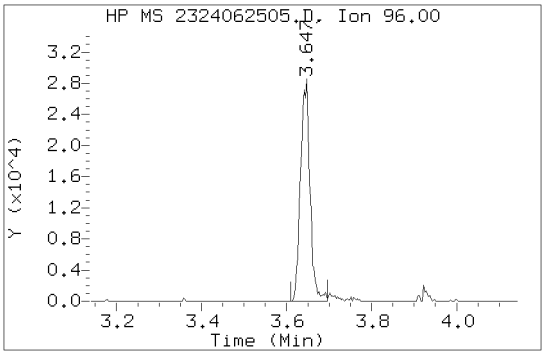
## cis-1,2-Dichloroethene (156-59-2)

Reason Code: I

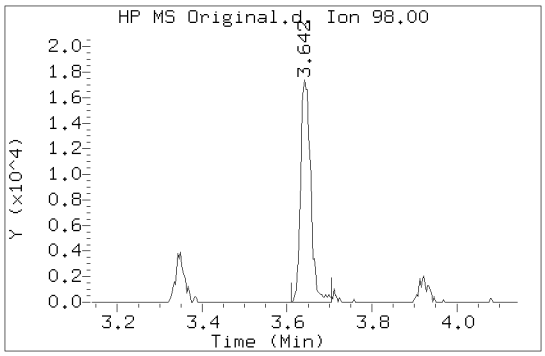
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25-Jun-2024
19:49



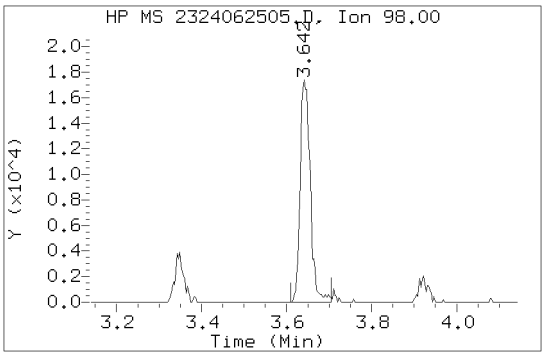

AFTER
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HEIGHT
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27-Jun-2024
16:15




BEFORE
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HEIGHT
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25-Jun-2024
19:49



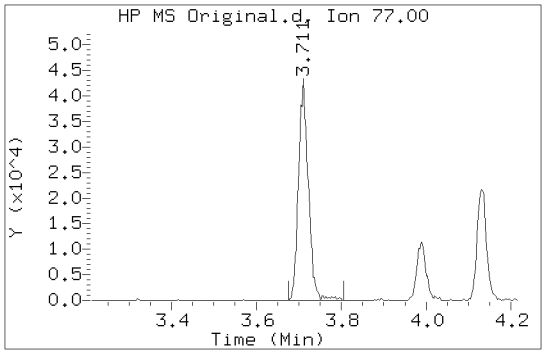

AFTER
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27-Jun-2024
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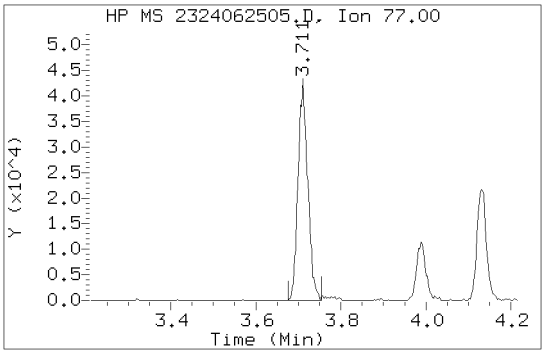

## 2,2-Dichloropropane (594-20-7)

Reason Code: MP

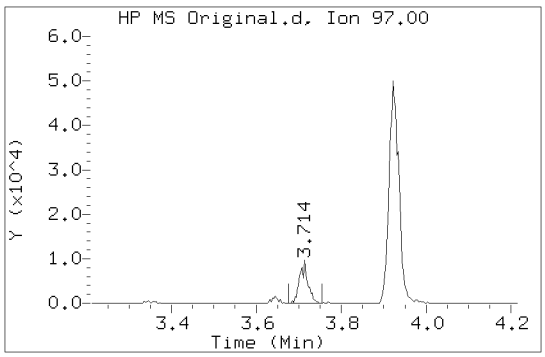
BEFORE
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25-Jun-2024
19:49



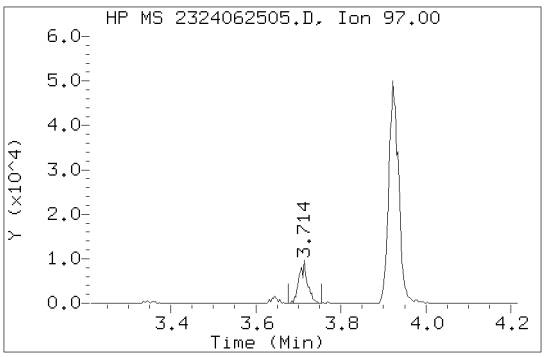

AFTER
MASS
77
AREA
67395
HEIGHT
43384
27-Jun-2024
16:15




BEFORE
MASS
97
AREA
12653
HEIGHT
9675
25-Jun-2024
19:49




AFTER
MASS
97
AREA
12653
HEIGHT
9675
27-Jun-2024
16:15

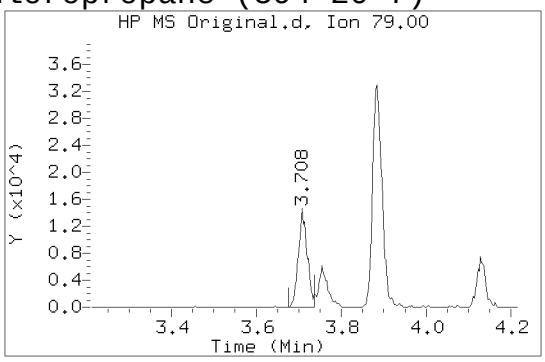


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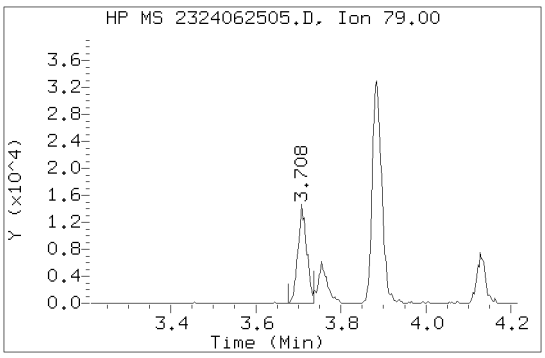
## 2,2-Dichloropropane (594-20-7)

Reason Code: MP

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HEIGHT
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25-Jun-2024
19:49



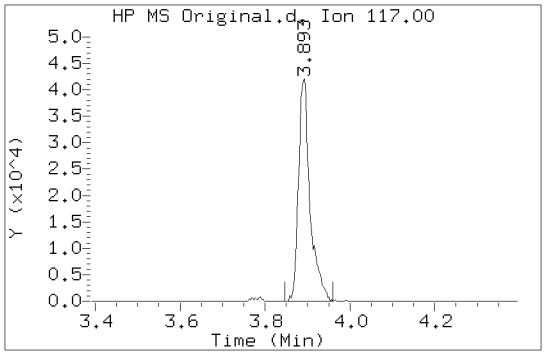

AFTER
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20735
HEIGHT
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27-Jun-2024
16:15



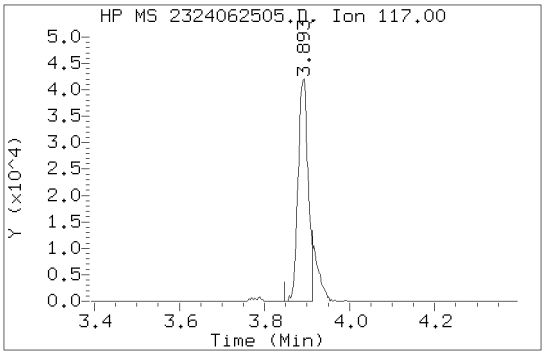

## Carbon Tetrachloride (56-23-5)

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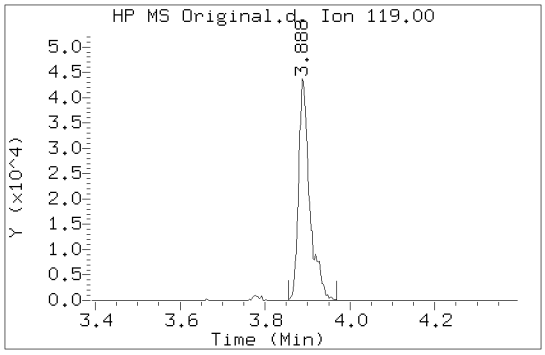
BEFORE
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HEIGHT
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25-Jun-2024
19:49



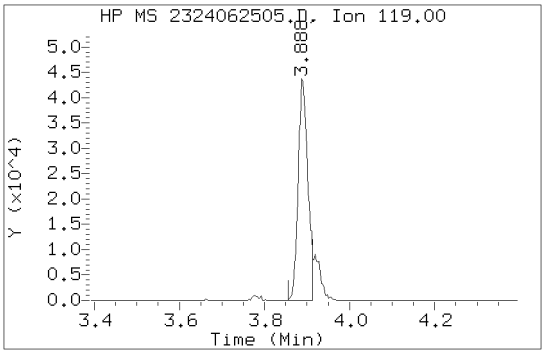

AFTER
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27-Jun-2024
16:15



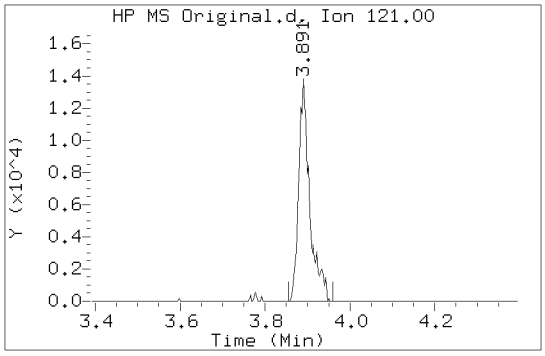

BEFORE
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25-Jun-2024
19:49



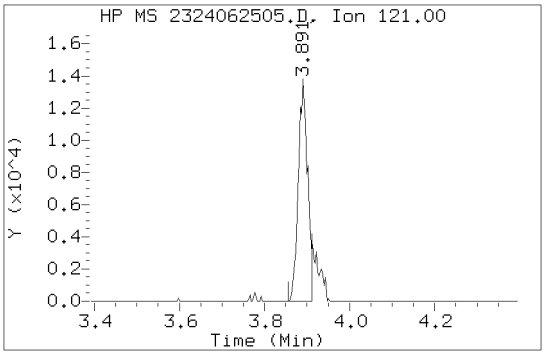

AFTER
MASS
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68111
HEIGHT
43736
27-Jun-2024
16:15




BEFORE
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25-Jun-2024
19:49




AFTER
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27-Jun-2024
16:15

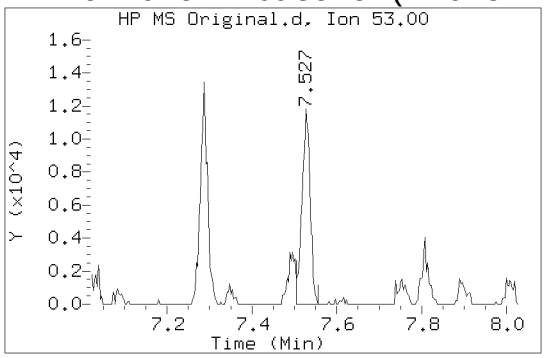


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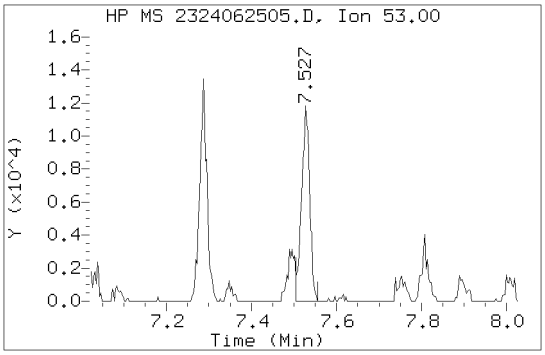
## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

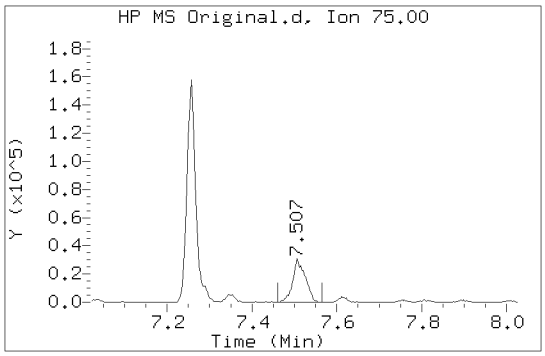
BEFORE
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HEIGHT
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25-Jun-2024
19:49



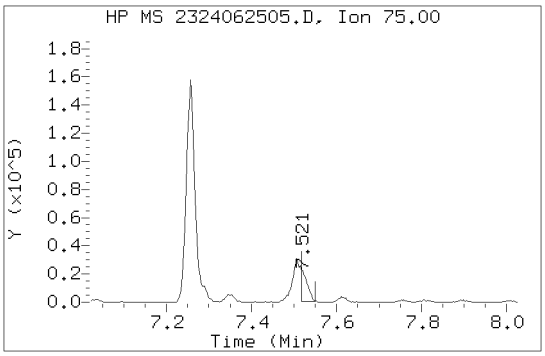

AFTER
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27-Jun-2024
16:15



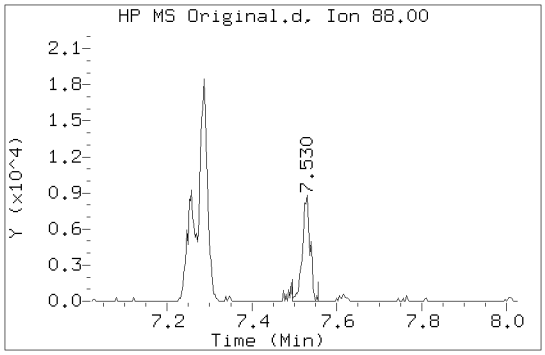

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25-Jun-2024
19:49



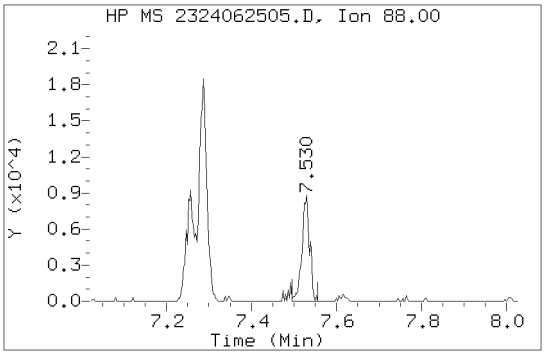

AFTER
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BEFORE
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25-Jun-2024
19:49



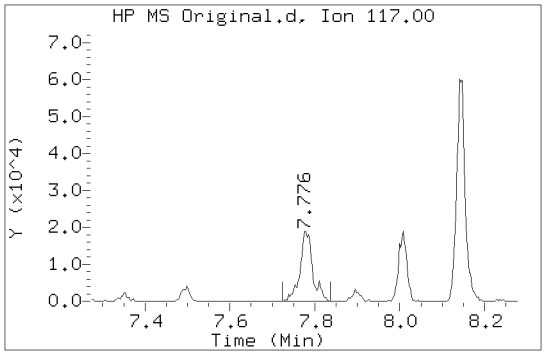

AFTER
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27-Jun-2024
16:15



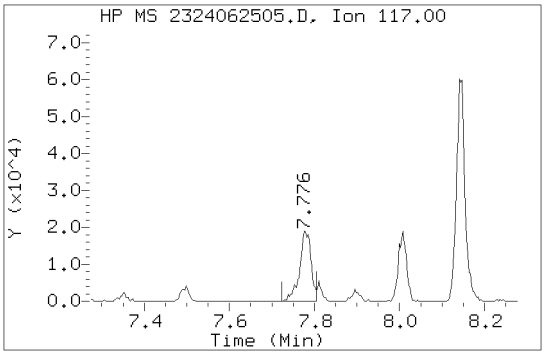

## Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
MASS
117
AREA
38701
HEIGHT
19032
25-Jun-2024
19:49




AFTER
MASS
117
AREA
35239
HEIGHT
19032
27-Jun-2024
16:15



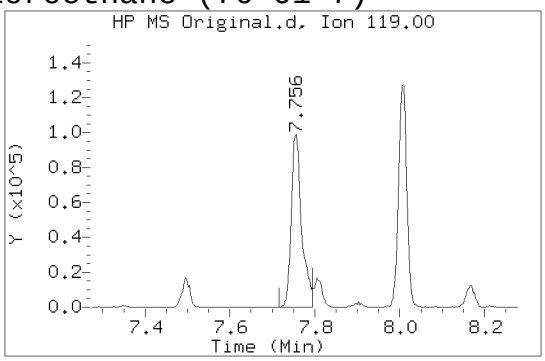
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Inj Date : 25-JUN-2024 12:20
InstruID : ms23.i
LabSampID : 1235

## Pentachloroethane (76-01-7)

Reason Code: MP

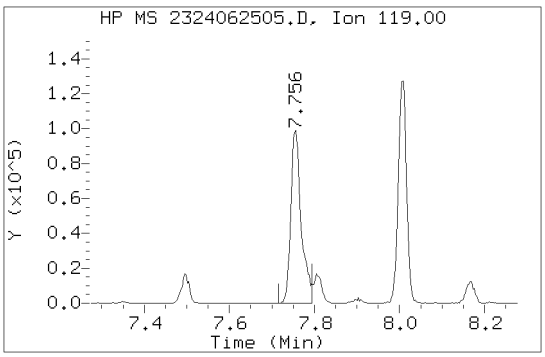
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MASS
119
AREA
171123
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99048
25-Jun-2024
19:49



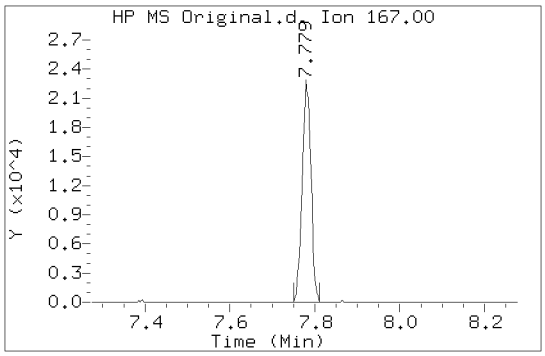

AFTER

MASS
119
AREA
171123
HEIGHT
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27-Jun-2024
16:15



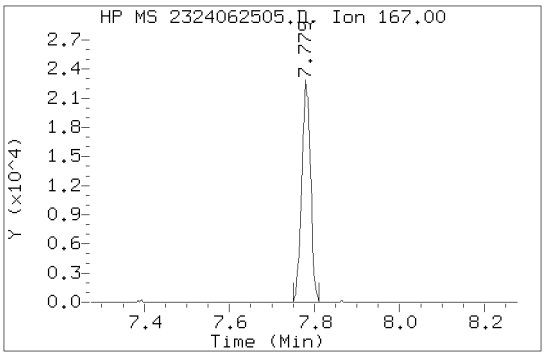

BEFORE

MASS
167
AREA
32360
HEIGHT
22888
25-Jun-2024
19:49




AFTER

MASS
167
AREA
32360
HEIGHT
22888
27-Jun-2024
16:15



# UNASSIGNED PEAK REPORT

Report Date: 06/27/2024 16:15
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240625.b/2324062505
Inj Date: 25-JUN-2024 12:20
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062506.D Page 1
Report Date: 27-Jun-2024 16:15

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062506.D
Lab Smp Id: 1236
Inj Date : 25-JUN-2024 12:40
Operator : ILY Inst ID: ms23.i
Smp Info : 1236;;1;1;3;;;
Misc Info :
Comment :
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Cal Date : 25-JUN-2024 12:40 Cal File: 2324062506.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.632 | 1.632 | (0.375) | 249449 | 20.0000 | 18.2976 | |
| 2 Chloromethane | 50 | 1.788 | 1.780 | (0.411) | 143610 | 20.0000 | 17.2419 | |
| 3 Vinyl Chloride | 62 | 1.849 | 1.849 | (0.424) | 146478 | 20.0000 | 17.8522 | |
| 4 Bromomethane | 94 | 2.072 | 2.072 | (0.476) | 100967 | 20.0000 | 16.2714 | |
| 5 Chloroethane | 64 | 2.147 | 2.156 | (0.493) | 87674 | 20.0000 | 19.4194 | |
| 6 Pentane | 41 | 2.245 | 2.252 | (0.516) | 93159 | 20.0000 | 16.8765 | |
| 7 Trichlorofluoromethane | 101 | 2.251 | 2.255 | (0.517) | 323781 | 20.0000 | 18.5352 | |
| 8 Dichlorofluoromethane | 67 | 2.277 | 2.278 | (0.523) | 286853 | 20.0000 | 19.4529 | |
| 9 Ethyl Ether | 74 | 2.442 | 2.446 | (0.561) | 89377 | 20.0000 | 19.4139 | |
| 10 1,1-Dichloroethene | 61 | 2.578 | 2.582 | (0.592) | 193490 | 20.0000 | 18.5801 | |
| 11 Freon 113 | 101 | 2.596 | 2.593 | (0.596) | 134160 | 20.0000 | 18.9391 | |
| 12 Carbon Disulfide | 76 | 2.619 | 2.619 | (0.601) | 377171 | 20.0000 | 18.6722 | |
| 13 Iodomethane | 127 | 2.680 | 2.686 | (0.615) | 60406 | 20.0000 | 15.5594 | |
| 14 Acrolein | 56 | 2.761 | 2.767 | (0.634) | 121524 | 100.000 | 92.8062 | |
| 15 Isopropyl Alcohol | 45 | 2.824 | 2.819 | (0.648) | 48455 | 100.000 | 88.3752 | |
| 16 3-Chloro-1-propene | 41 | 2.851 | 2.848 | (0.654) | 145446 | 20.0000 | 18.4189 | |
| 17 Methylene Chloride | 84 | 2.911 | 2.909 | (0.668) | 142770 | 20.0000 | 18.9189 | |
| 18 Acetone | 58 | 2.926 | 2.923 | (0.672) | 65439 | 100.000 | 94.0669 | |
| 19 Methyl acetate | 74 | 2.987 | 2.999 | (0.686) | 31020 | 20.0000 | 17.7124 | |
| 20 trans-1,2-Dichloroethene | 61 | 3.004 | 3.005 | (0.690) | 184497 | 20.0000 | 19.3245 | |
| 21 Hexane | 57 | 3.044 | 3.042 | (0.699) | 243756 | 20.0000 | 17.2158 | |
| 22 Methyl t-Butyl Ether | 73 | 3.047 | 3.051 | (0.700) | 493871 | 20.0000 | 19.3794 | |

Data File: 2324062506.D
Report Date: 27-Jun-2024 16:15



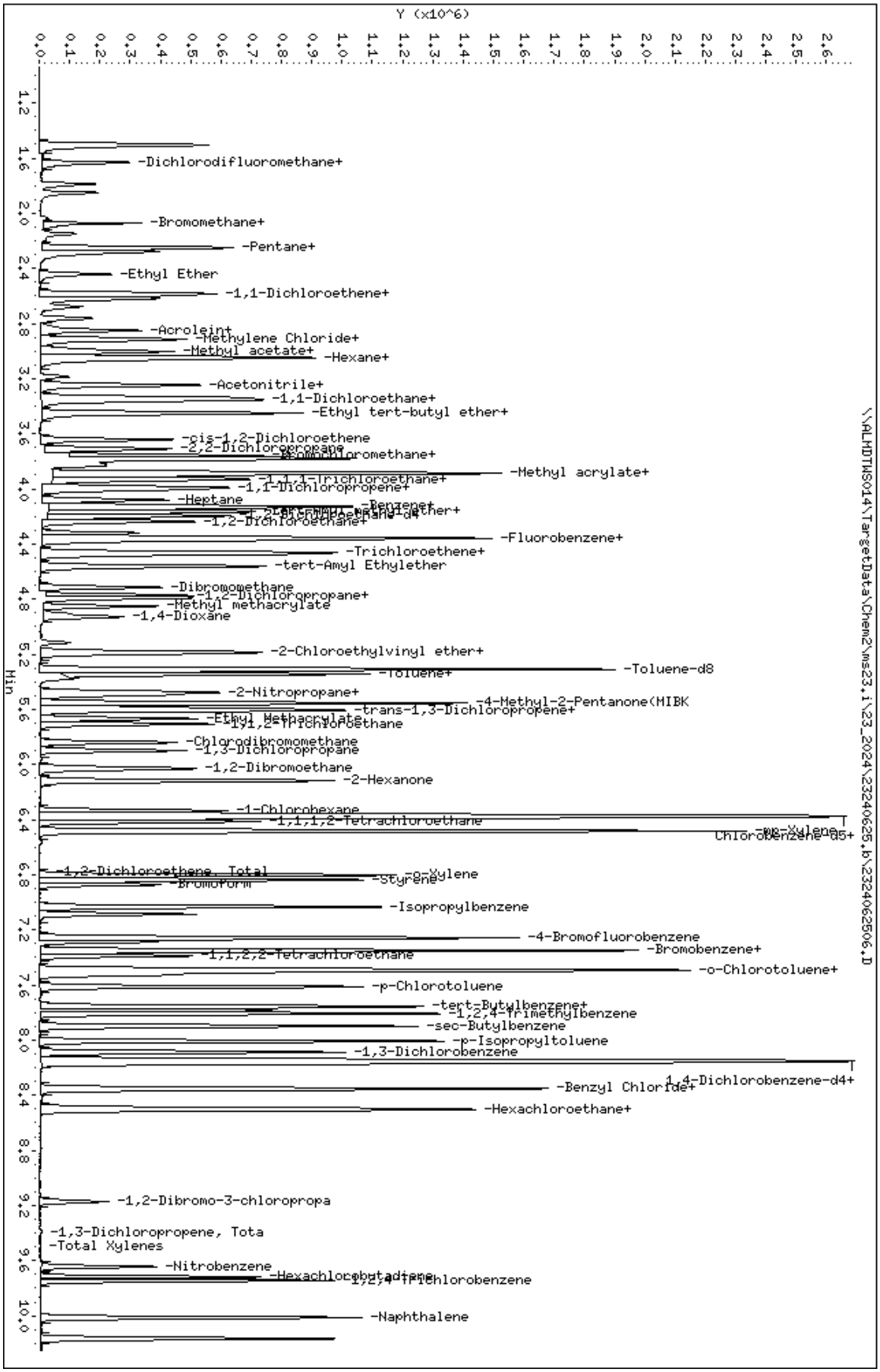
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 23 tert.- Butyl Alcohol | 59 | 3.068 | 3.065 | (0.704) | 101401 | 100.000 | 95.5133 | |
| | 24 Acetonitrile | 41 | 3.186 | 3.187 | (0.732) | 73980 | 100.000 | 92.3357 | |
| | 25 Diisopropyl ether | 45 | 3.247 | 3.245 | (0.745) | 334076 | 20.0000 | 18.9516 | |
| | 26 Chloroprene | 53 | 3.334 | 3.329 | (0.765) | 183558 | 20.0000 | 15.1132(M) | MP |
| | 27 1,1-Dichloroethane | 63 | 3.346 | 3.346 | (0.768) | 241048 | 20.0000 | 17.9088 | |
| | 28 Acrylonitrile | 53 | 3.360 | 3.358 | (0.771) | 314537 | 100.000 | 90.1525(M) | MP |
| | 29 Ethyl tert-butyl ether | 59 | 3.450 | 3.448 | (0.792) | 449788 | 20.0000 | 17.8333 | |
| | 30 n-Propanol | 41 | 3.450 | 3.448 | (0.792) | 78881 | 200.000 | 191.213 | |
| | 31 Vinyl Acetate | 86 | 3.453 | 3.442 | (0.793) | 39752 | 20.0000 | 17.7656(Q) | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.641 | 3.641 | (0.836) | 186492 | 20.0000 | 18.8791 | |
| | 33 2,2-Dichloropropane | 77 | 3.708 | 3.714 | (0.851) | 253947 | 20.0000 | 19.4782 | |
| | 34 Bromochloromethane | 128 | 3.754 | 3.754 | (0.862) | 93575 | 20.0000 | 19.6207 | |
| | 35 Cyclohexane | 84 | 3.780 | 3.789 | (0.868) | 211357 | 20.0000 | 19.0769 | |
| | 36 Chloroform | 83 | 3.783 | 3.775 | (0.868) | 310035 | 20.0000 | 18.7113 | |
| | 37 Ethyl Acetate | 43 | 3.818 | 3.818 | (0.876) | 140107 | 20.0000 | 19.2395 | |
| | 38 Methyl acrylate | 55 | 3.832 | 3.830 | (0.880) | 131330 | 20.0000 | 17.1282 | |
| | 39 Carbon Tetrachloride | 117 | 3.887 | 3.893 | (0.892) | 262887 | 20.0000 | 17.6323(M) | MP |
| $ | 41 Dibromofluoromethane | 113 | 3.887 | 3.885 | (0.892) | 281902 | 30.0000 | 30.8670 | |
| | 40 Tetrahydrofuran | 42 | 3.884 | 3.888 | (0.892) | 181854 | 100.000 | 94.4920 | |
| | 42 1,1,1-Trichloroethane | 97 | 3.925 | 3.922 | (0.901) | 289889 | 20.0000 | 19.1416 | |
| | 43 2-Butanone | 72 | 3.936 | 3.951 | (0.904) | 101511 | 100.000 | 94.8343 | |
| | 44 1,1-Dichloropropene | 75 | 3.985 | 3.986 | (0.915) | 206401 | 20.0000 | 19.1463 | |
| | 45 1-Chlorobutane | 41 | 4.009 | 4.003 | (0.920) | 127563 | 20.0000 | 18.2166 | |
| | 46 Heptane | 71 | 4.078 | 4.078 | (0.936) | 90274 | 20.0000 | 18.1233 | |
| | 47 Benzene | 78 | 4.130 | 4.128 | (0.948) | 540016 | 20.0000 | 19.0873 | |
| | 48 Propionitrile | 54 | 4.113 | 4.105 | (0.944) | 111637 | 100.000 | 89.7234 | |
| | 49 Methacrylonitrile | 67 | 4.130 | 4.131 | (0.948) | 63368 | 20.0000 | 18.3415 | |
| | 50 tert-Amyl methyl ether | 73 | 4.165 | 4.166 | (0.956) | 449709 | 20.0000 | 17.6348 | |
| | 54 Isobutyl alcohol | 42 | 4.171 | 4.168 | (0.957) | 29316 | 200.000 | 144.653(Q) | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.197 | 4.197 | (0.963) | 354302 | 30.0000 | 30.3037(M) | MP |
| | 52 1,2-Dichloroethane | 62 | 4.237 | 4.235 | (0.973) | 252726 | 20.0000 | 18.9325 | |
| | 53 tert-Amyl Alcohol | 59 | 4.237 | 4.247 | (0.973) | 72561 | 100.000 | 91.7173 | |
| * | 55 Fluorobenzene | 96 | 4.356 | 4.357 | (1.000) | 929356 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.371 | 4.357 | (1.003) | 285696 | 20.0000 | 17.4693 | |
| | 57 Trichloroethene | 95 | 4.460 | 4.458 | (1.024) | 158885 | 20.0000 | 18.3327 | |
| | 58 Methyl cyclohexane | 83 | 4.475 | 4.470 | (0.703) | 221134 | 20.0000 | 18.4455 | |
| | 59 tert-Amyl Ethylether | 59 | 4.562 | 4.562 | (1.047) | 328799 | 20.0000 | 19.2232 | |
| | 60 Dibromomethane | 93 | 4.715 | 4.716 | (1.082) | 104698 | 20.0000 | 18.7864 | |
| | 61 1,2-Dichloropropane | 63 | 4.770 | 4.768 | (1.095) | 118354 | 20.0000 | 19.1836 | |
| | 62 Bromodichloromethane | 83 | 4.793 | 4.791 | (1.100) | 225652 | 20.0000 | 18.9890 | |
| | 63 Methyl methacrylate | 41 | 4.851 | 4.855 | (1.114) | 126355 | 20.0000 | 17.3067 | |
| | 64 1,4-Dioxane | 88 | 4.903 | 4.907 | (1.126) | 57974 | 500.000 | 482.192(A) | |
| | 65 2-Chloroethylvinyl ether | 63 | 5.115 | 5.121 | (1.174) | 33217 | 20.0000 | 12.6813 | |
| | 66 cis-1,3-Dichloropropene | 75 | 5.184 | 5.182 | (0.814) | 248734 | 20.0000 | 17.0449 | |
| | 67 Octane | 85 | 5.196 | 5.193 | (0.816) | 90129 | 20.0000 | 19.2245 | |
| $ | 68 Toluene-d8 | 98 | 5.309 | 5.309 | (0.834) | 1022600 | 30.0000 | 30.5285 | |
| | 69 Toluene | 92 | 5.343 | 5.344 | (0.839) | 372136 | 20.0000 | 18.0973 | |
| | 70 Chloroacetonitrile | 75 | 5.381 | 5.376 | (0.845) | 54037 | 100.000 | 85.2251 | |
| | 71 2-Nitropropane | 41 | 5.474 | 5.474 | (0.860) | 292246 | 100.000 | 84.4588 | |
| | 72 1,1-Dichloro-2-Propanone | 63 | 5.497 | 5.503 | (0.864) | 25750 | 100.000 | 88.8689(Q) | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.555 | 5.555 | (0.873) | 651962 | 100.000 | 87.3273 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.592 | 5.587 | (0.879) | 260792 | 20.0000 | 17.2737 | |
| | 74 Tetrachloroethene | 164 | 5.607 | 5.605 | (0.881) | 160769 | 20.0000 | 17.9846 | |
| | 76 Ethyl Methacrylate | 69 | 5.665 | 5.668 | (0.890) | 211466 | 20.0000 | 17.1169 | |

Data File: 2324062506.D Page 3
Report Date: 27-Jun-2024 16:15

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 1,1,2-Trichloroethane | 83 | 5.705 | 5.706 | (0.896) | 117529 | 20.0000 | 19.2610 | |
| 78 | Chlorodibromomethane | 129 | 5.841 | 5.839 | (0.918) | 206382 | 20.0000 | 16.8182 | |
| 79 | 1,3-Dichloropropane | 76 | 5.899 | 5.897 | (0.927) | 238066 | 20.0000 | 18.5981 | |
| 80 | 1,2-Dibromoethane | 107 | 6.021 | 6.019 | (0.946) | 166334 | 20.0000 | 18.6200 | |
| 81 | 2-Hexanone | 43 | 6.116 | 6.123 | (0.961) | 465972 | 100.000 | 84.7613 | |
| 82 | 1-Chlorohexane | 91 | 6.334 | 6.331 | (0.995) | 193855 | 20.0000 | 18.0587 | |
| * 83 | Chlorobenzene-d5 | 82 | 6.365 | 6.363 | (1.000) | 420245 | 30.0000 | | |
| 84 | Chlorobenzene | 112 | 6.377 | 6.378 | (1.002) | 443055 | 20.0000 | 18.7575 | |
| 85 | Ethylbenzene | 106 | 6.383 | 6.378 | (1.003) | 224319 | 20.0000 | 18.0231 | |
| 86 | 1,1,1,2-Tetrachloroethane | 131 | 6.415 | 6.418 | (1.008) | 182961 | 20.0000 | 18.8824 | |
| 87 | mp-Xylene | 106 | 6.484 | 6.482 | (1.019) | 562536 | 40.0000 | 37.3830 | |
| 88 | o-Xylene | 106 | 6.803 | 6.797 | (1.069) | 279068 | 20.0000 | 18.8661 | |
| 89 | Styrene | 104 | 6.837 | 6.838 | (0.840) | 457158 | 20.0000 | 16.7829 | |
| 90 | Bromoform | 173 | 6.872 | 6.870 | (0.844) | 156525 | 20.0000 | 16.3110 | |
| 91 | Isopropylbenzene | 105 | 7.031 | 7.035 | (0.863) | 661590 | 20.0000 | 17.0334 | |
| M 100 | 1,2-Dichloroethene, Total | 61 | | | | 370989 | 40.0000 | 38.2036 | |
| $ 92 | 4-Bromofluorobenzene | 174 | 7.257 | 7.258 | (0.891) | 415037 | 30.0000 | 29.2099 | |
| 93 | Bromobenzene | 156 | 7.347 | 7.350 | (0.902) | 210776 | 20.0000 | 17.2763 | |
| 94 | n-Propylbenzene | 120 | 7.350 | 7.348 | (0.903) | 197959 | 20.0000 | 17.1357 | |
| 95 | 1,1,2,2-Tetrachloroethane | 83 | 7.388 | 7.388 | (0.907) | 184557 | 20.0000 | 18.2921 | |
| 96 | o-Chlorotoluene | 91 | 7.486 | 7.489 | (0.919) | 563840 | 20.0000 | 17.8958 | |
| 97 | 1,3,5-Trimethylbenzene | 105 | 7.495 | 7.495 | (0.920) | 613226 | 20.0000 | 18.0041 | |
| 98 | 1,2,3-Trichloropropane | 110 | 7.509 | 7.507 | (0.922) | 79368 | 20.0000 | 18.5445 | |
| 99 | trans-1,4-Dichloro-2-butene | 53 | 7.526 | 7.524 | (0.924) | 64425 | 20.0000 | 16.3231(M) | MP |
| 101 | p-Chlorotoluene | 91 | 7.613 | 7.614 | (0.935) | 515415 | 20.0000 | 17.6930 | |
| 102 | tert-Butylbenzene | 134 | 7.752 | 7.756 | (0.952) | 152642 | 20.0000 | 17.8974 | |
| 103 | Pentachloroethane | 117 | 7.781 | 7.776 | (0.956) | 134662 | 20.0000 | 16.8807(M) | MP |
| 104 | 1,2,4-Trimethylbenzene | 105 | 7.807 | 7.805 | (0.959) | 627275 | 20.0000 | 18.1331 | |
| 105 | sec-Butylbenzene | 105 | 7.900 | 7.895 | (0.970) | 735335 | 20.0000 | 18.1315 | |
| 106 | p-Isopropyltoluene | 134 | 8.007 | 8.007 | (0.983) | 177018 | 20.0000 | 18.0705 | |
| 107 | 1,3-Dichlorobenzene | 146 | 8.088 | 8.089 | (0.993) | 381774 | 20.0000 | 17.7593 | |
| * 108 | 1,4-Dichlorobenzene-d4 | 152 | 8.143 | 8.141 | (1.000) | 491148 | 30.0000 | | |
| 109 | 1,4-Dichlorobenzene | 146 | 8.158 | 8.157 | (1.002) | 386819 | 20.0000 | 17.5537 | |
| 110 | Benzyl Chloride | 126 | 8.349 | 8.352 | (1.025) | 82200 | 20.0000 | 15.6354(Q) | |
| 111 | n-Butylbenzene | 134 | 8.355 | 8.352 | (1.026) | 158659 | 20.0000 | 17.5002 | |
| 112 | Hexachloroethane | 117 | 8.494 | 8.494 | (1.043) | 122695 | 20.0000 | 16.0543 | |
| 113 | 1,2-Dichlorobenzene | 146 | 8.505 | 8.509 | (1.044) | 369896 | 20.0000 | 17.7248 | |
| 114 | 1,2-Dibromo-3-chloropropane | 75 | 9.168 | 9.172 | (1.126) | 47710 | 20.0000 | 17.1435 | |
| 115 | Nitrobenzene | 77 | 9.643 | 9.646 | (1.184) | 159542 | 200.000 | 147.613 | |
| 116 | Hexachlorobutadiene | 225 | 9.718 | 9.722 | (1.193) | 125627 | 20.0000 | 17.4999 | |
| M 120 | 1,3-Dichloropropene, Total | 75 | | | | 509526 | 40.0000 | 34.3185 | |
| 117 | 1,2,4-Trichlorobenzene | 180 | 9.744 | 9.745 | (1.197) | 254753 | 20.0000 | 17.6429 | |
| M 121 | Total Xylenes | 106 | | | | 841604 | 60.0000 | 56.2490 | |
| 118 | Naphthalene | 128 | 10.014 | 10.014 | (1.230) | 670976 | 20.0000 | 16.7144 | |
| 119 | 1,2,3-Trichlorobenzene | 180 | 10.167 | 10.168 | (1.249) | 253850 | 20.0000 | 17.7662(M) | H |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

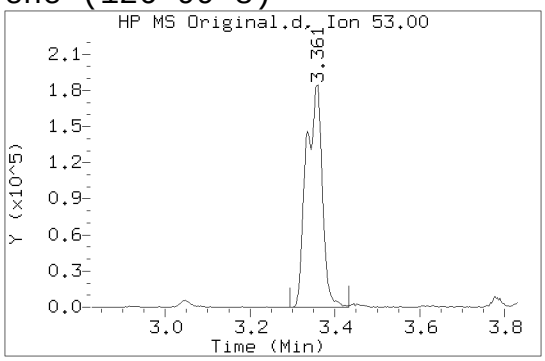

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Client ID:
Sample Info: 1236;;1;1;3;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms23.i
Operator: ILY
Column diameter: 0.25
Page 1
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Min
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-Dichlorodifluoromethane+
-Bromomethane+
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Acroleint
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-1,1-Dichloroethane+
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Methyl acrylate+
-1,1-Dichloropropene+
-Heptane
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether+
-Toluene-d8
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
-m,p-Xylene
Chlorobenzene-d5+
-1,2-Dichloroethene, Total
-o-Xylene
-Bromoform
-Styrene
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-1,1,2,2-Tetrachloroethane
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Total Xylenes
-Nitrobenzene
-Hexachlorobutadiene
1,2,4-Trichlorobenzene
-Naphthalene

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Inj Date : 25-JUN-2024 12:40
InstruID : ms23.i
LabSampID : 1236

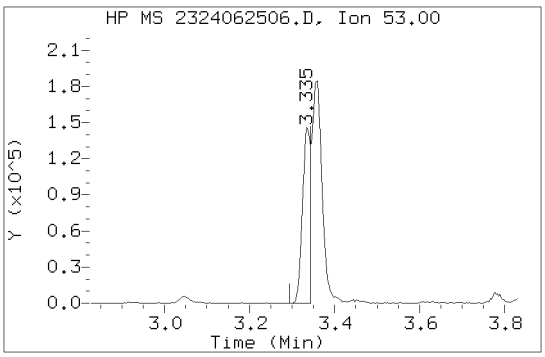
## Chloroprene (126-99-8)

Reason Code: MP

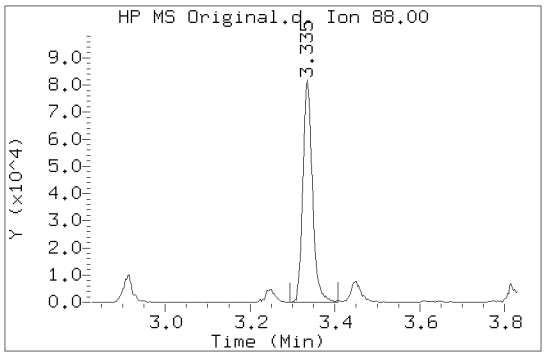
BEFORE
MASS
53
AREA
480274
HEIGHT
184640
25-Jun-2024
19:45



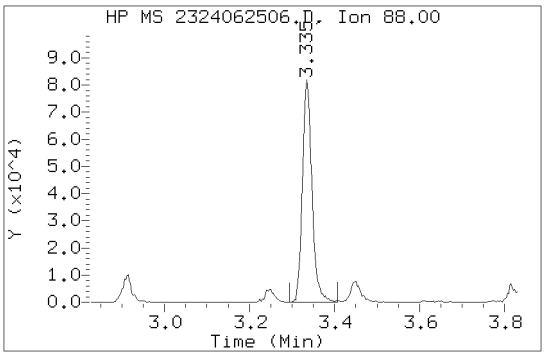

AFTER
MASS
53
AREA
183558
HEIGHT
146432
27-Jun-2024
16:15



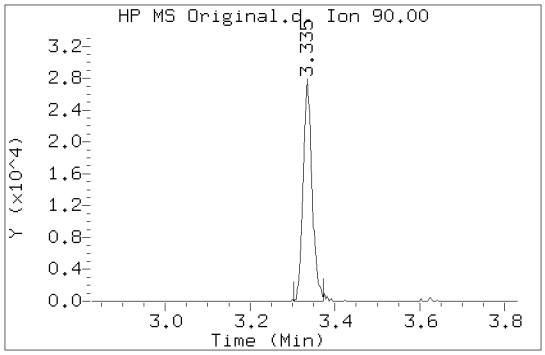

BEFORE
MASS
88
AREA
126652
HEIGHT
81888
25-Jun-2024
19:45



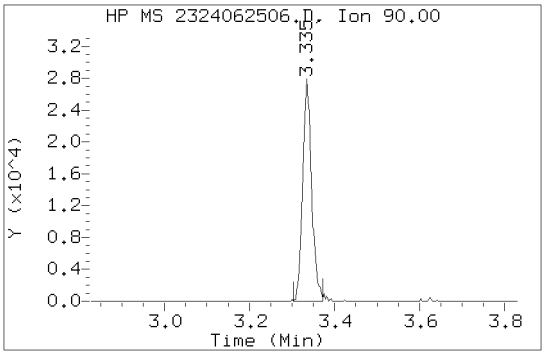

AFTER
MASS
88
AREA
126652
HEIGHT
81888
27-Jun-2024
16:15




BEFORE
MASS
90
AREA
40254
HEIGHT
27920
25-Jun-2024
19:45



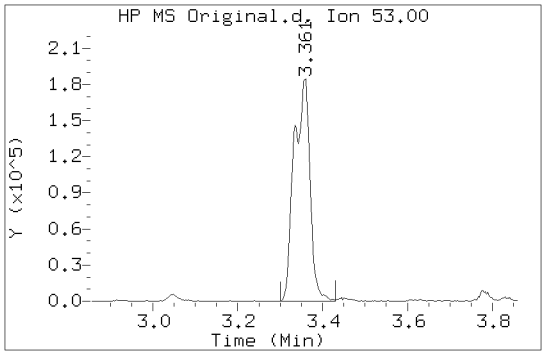

AFTER
MASS
90
AREA
40254
HEIGHT
27920
27-Jun-2024
16:15



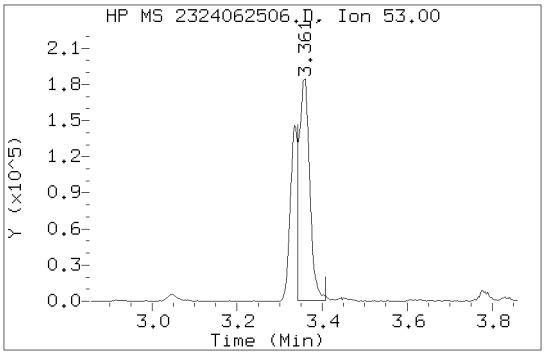

## Acrylonitrile (107-13-1)

Reason Code: MP

BEFORE
MASS
53
AREA
478594
HEIGHT
184463
25-Jun-2024
19:45




AFTER
MASS
53
AREA
314537
HEIGHT
184159
27-Jun-2024
16:15

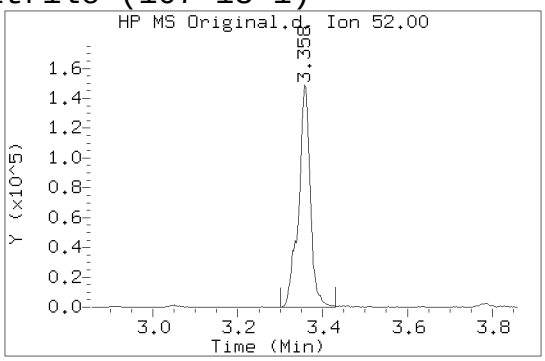


Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062506.D
Inj Date : 25-JUN-2024 12:40
InstruID : ms23.i
LabSampID : 1236

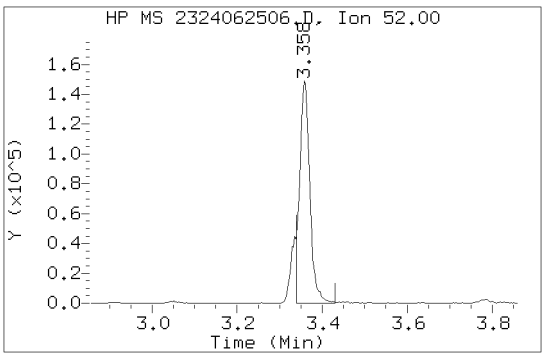
## Acrylonitrile (107-13-1)

Reason Code: MP

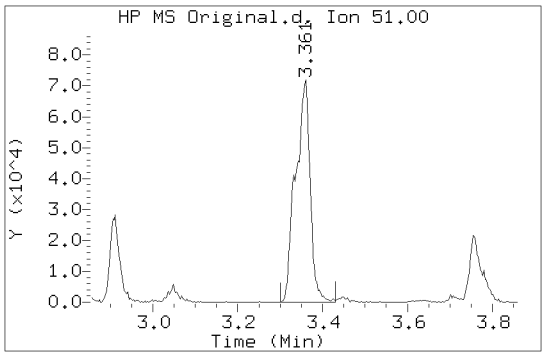
BEFORE
MASS
52
AREA
282192
HEIGHT
148992
25-Jun-2024
19:45



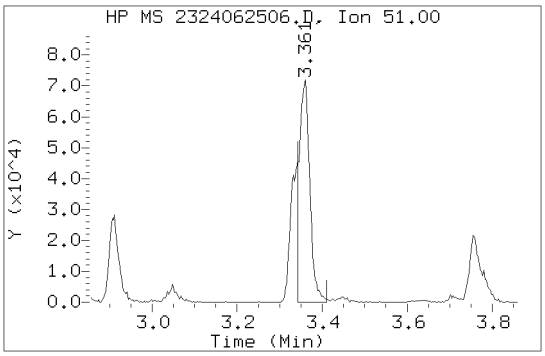

AFTER
MASS
52
AREA
241912
HEIGHT
148935
27-Jun-2024
16:15




BEFORE
MASS
51
AREA
170208
HEIGHT
71936
25-Jun-2024
19:45



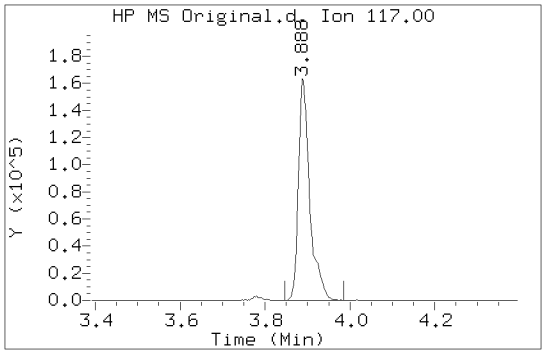

AFTER
MASS
51
AREA
119753
HEIGHT
71888
27-Jun-2024
16:15



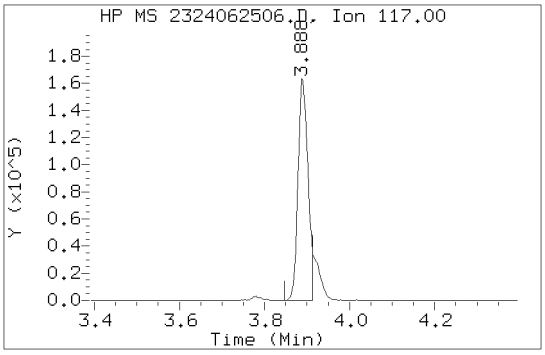

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

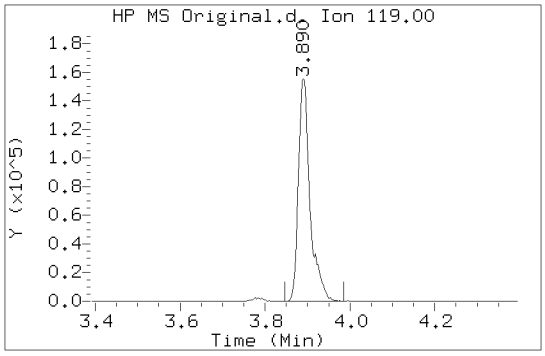
BEFORE
MASS
117
AREA
299838
HEIGHT
163456
25-Jun-2024
19:45



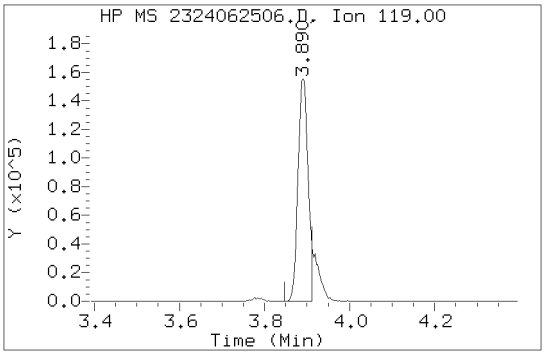

AFTER
MASS
117
AREA
262887
HEIGHT
163456
27-Jun-2024
16:15




BEFORE
MASS
119
AREA
292076
HEIGHT
155392
25-Jun-2024
19:45




AFTER
MASS
119
AREA
249757
HEIGHT
155392
27-Jun-2024
16:15

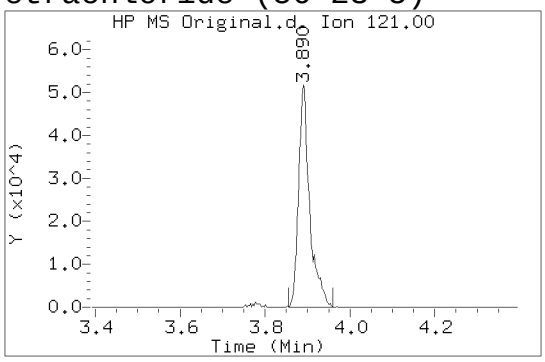


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Inj Date : 25-JUN-2024 12:40
InstruID : ms23.i
LabSampID : 1236

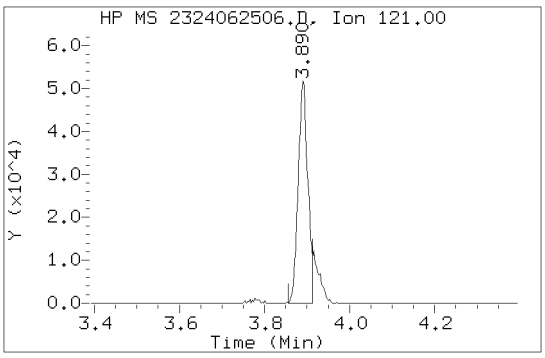
## Carbon Tetrachloride (56-23-5)

Reason Code: MP

BEFORE
MASS
121
AREA
92829
HEIGHT
51784
25-Jun-2024
19:45



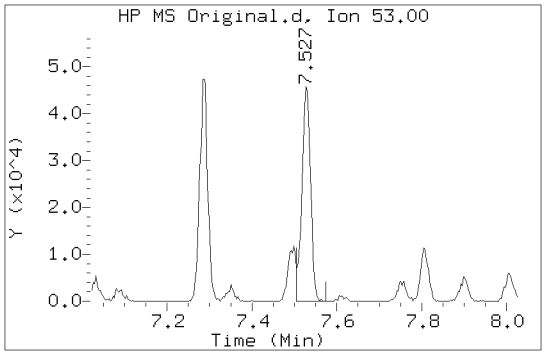

AFTER
MASS
121
AREA
80831
HEIGHT
51784
27-Jun-2024
16:15



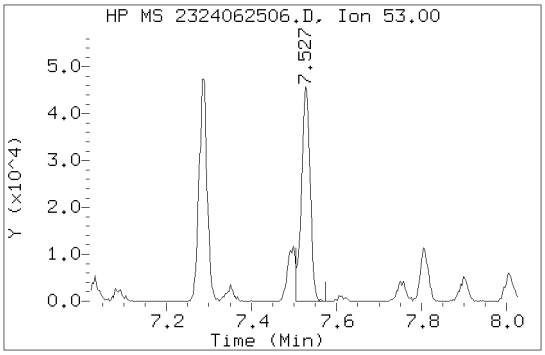

## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

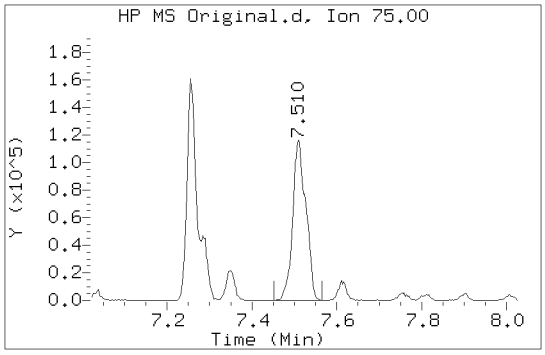
BEFORE
MASS
53
AREA
64425
HEIGHT
45752
25-Jun-2024
19:45



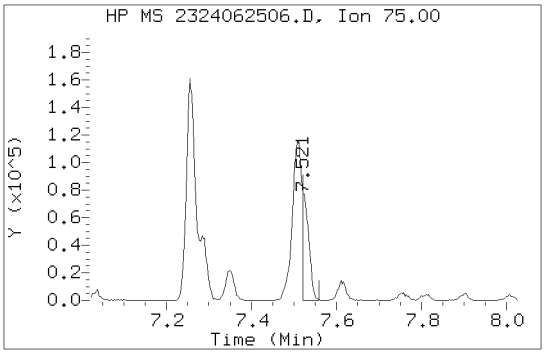

AFTER
MASS
53
AREA
64425
HEIGHT
45752
27-Jun-2024
16:15



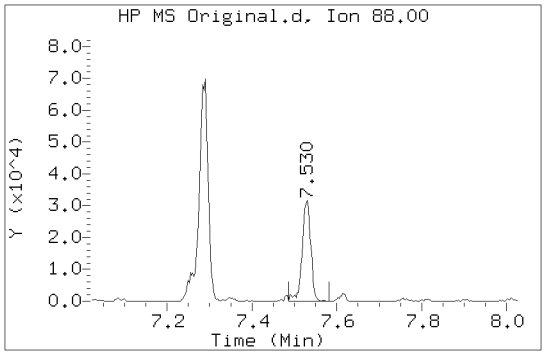

BEFORE
MASS
75
AREA
251447
HEIGHT
116360
25-Jun-2024
19:45



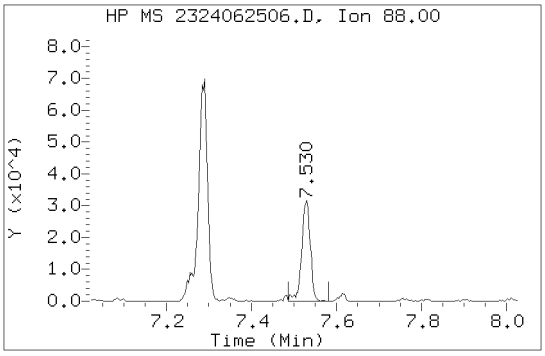

AFTER
MASS
75
AREA
77643
HEIGHT
77253
27-Jun-2024
16:15




BEFORE
MASS
88
AREA
44026
HEIGHT
31688
25-Jun-2024
19:45




AFTER
MASS
88
AREA
44026
HEIGHT
31688
27-Jun-2024
16:15

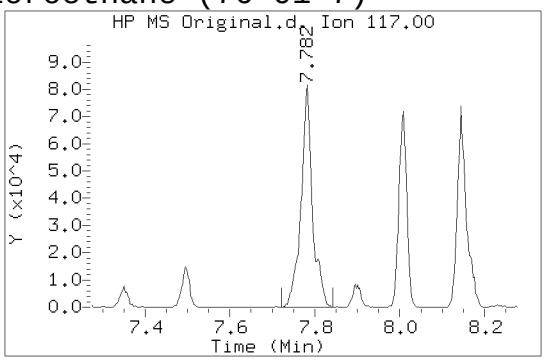


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Inj Date : 25-JUN-2024 12:40
InstruID : ms23.i
LabSampID : 1236

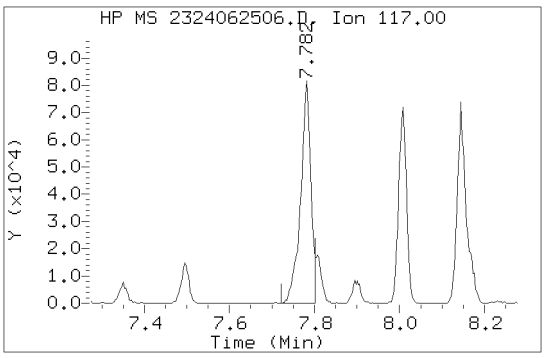
## Pentachloroethane (76-01-7)

Reason Code: MP

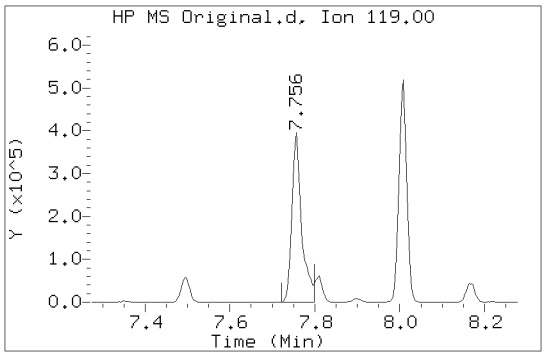
BEFORE
MASS
117
AREA
150275
HEIGHT
81600
25-Jun-2024
19:45



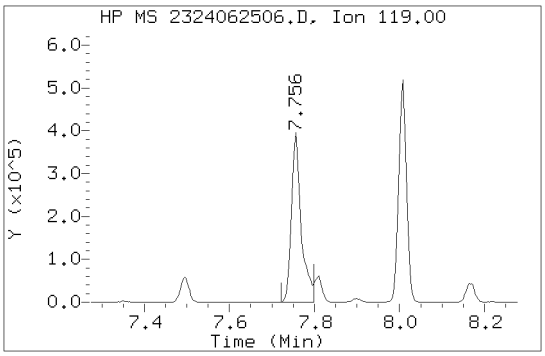

AFTER
MASS
117
AREA
134662
HEIGHT
81600
27-Jun-2024
16:15



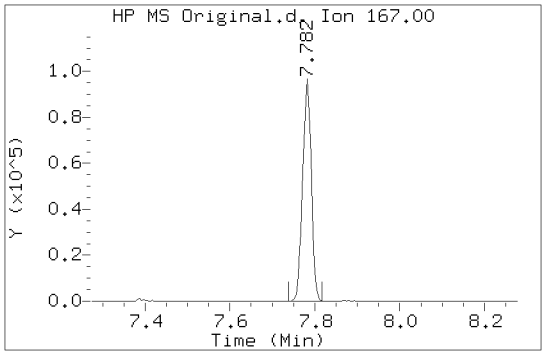

BEFORE
MASS
119
AREA
646957
HEIGHT
396340
25-Jun-2024
19:45



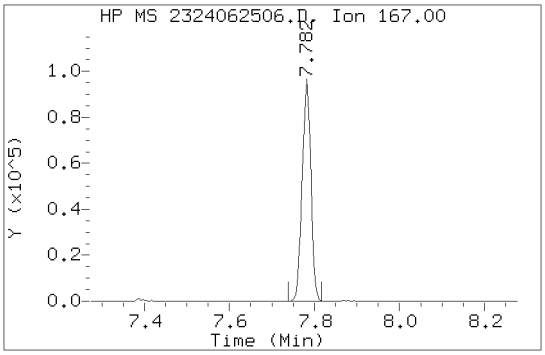

AFTER
MASS
119
AREA
646957
HEIGHT
396340
27-Jun-2024
16:15




BEFORE
MASS
167
AREA
134845
HEIGHT
96696
25-Jun-2024
19:45



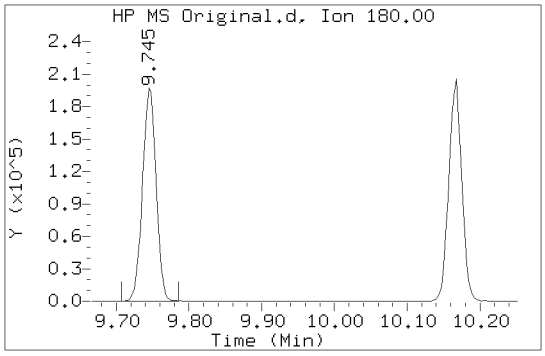

AFTER
MASS
167
AREA
134845
HEIGHT
96696
27-Jun-2024
16:15



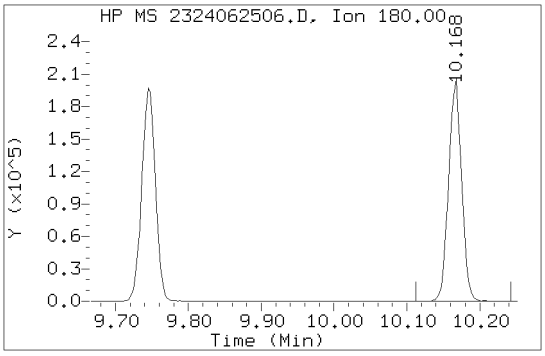

## 1,2,3-Trichlorobenzene (87-61-6)

Reason Code: H

BEFORE
MASS
180
AREA
256353
HEIGHT
197120
25-Jun-2024
19:45




AFTER
MASS
180
AREA
253850
HEIGHT
205568
27-Jun-2024
16:15



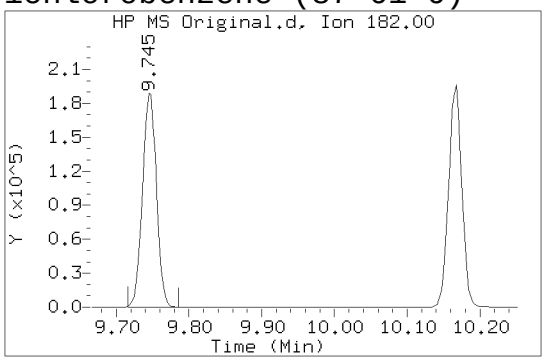
Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062506.D
Inj Date : 25-JUN-2024 12:40
InstruID : ms23.i
LabSampID : 1236

## 1,2,3-Trichlorobenzene (87-61-6)

Reason Code: H

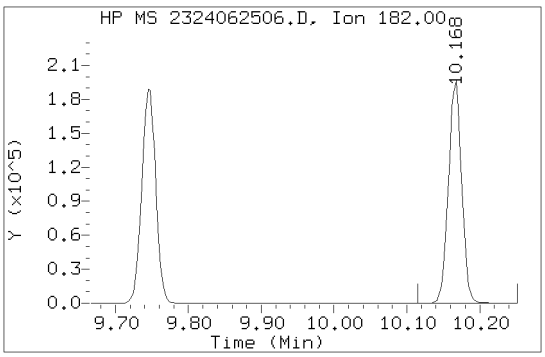
BEFORE

MASS
182
AREA
251472
HEIGHT
188928
25-Jun-2024
19:45




AFTER

MASS
182
AREA
247670
HEIGHT
196224
27-Jun-2024
16:15

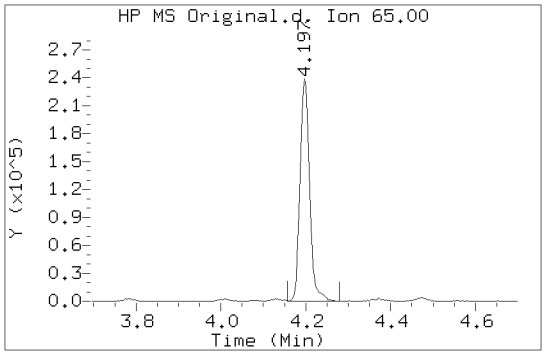



## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

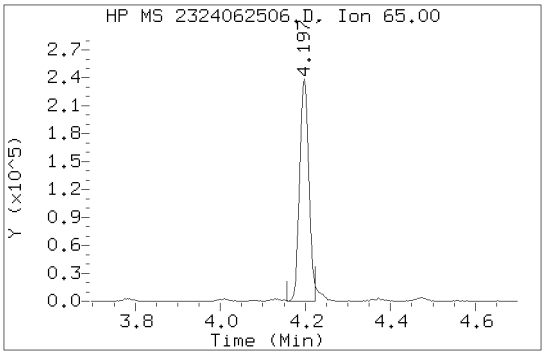
BEFORE

MASS
65
AREA
368092
HEIGHT
238848
25-Jun-2024
19:45



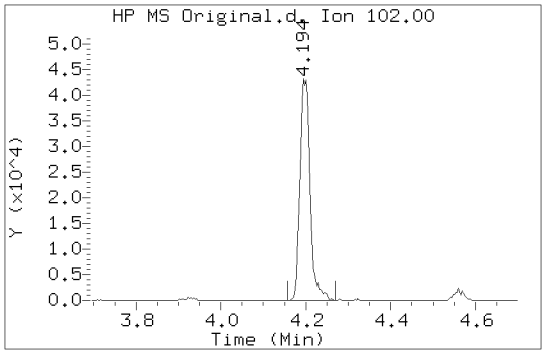

AFTER

MASS
65
AREA
354302
HEIGHT
238848
27-Jun-2024
16:15



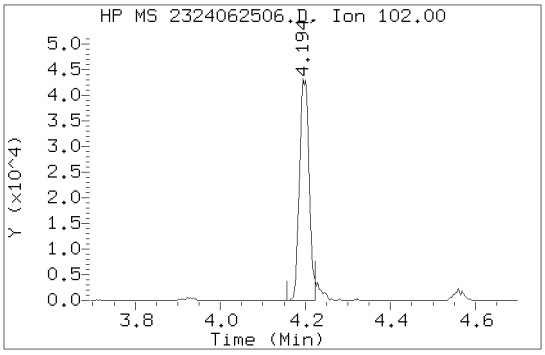

BEFORE

MASS
102
AREA
70188
HEIGHT
43280
25-Jun-2024
19:45



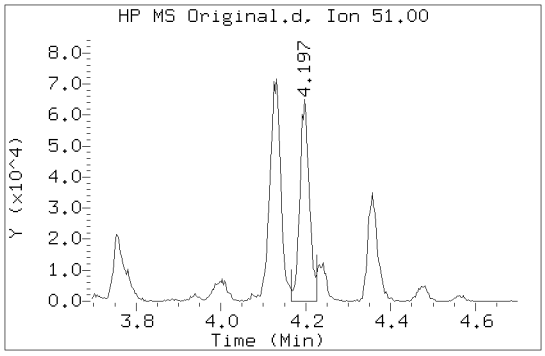

AFTER

MASS
102
AREA
66806
HEIGHT
43280
27-Jun-2024
16:15



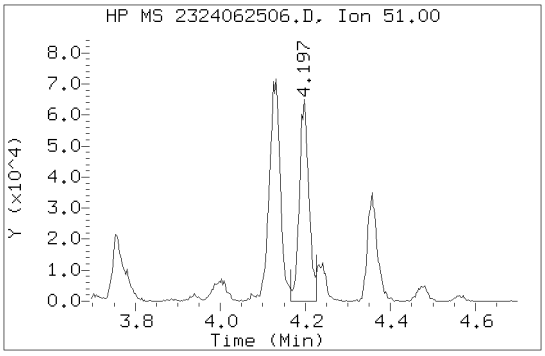

BEFORE

MASS
51
AREA
99913
HEIGHT
65128
25-Jun-2024
19:45




AFTER

MASS
51
AREA
99913
HEIGHT
65128
27-Jun-2024
16:15



# UNASSIGNED PEAK REPORT

Report Date: 06/27/2024 16:15
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240625.b/232406250
Inj Date: 25-JUN-2024 12:40
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062507.D Page 1
Report Date: 27-Jun-2024 16:15

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062507.D
Lab Smp Id: 1237
Inj Date : 25-JUN-2024 13:00
Operator : ILY Inst ID: ms23.i
Smp Info : 1237;;1;1;4;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\23-8260b09.m
Meth Date : 25-Jun-2024 20:25 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 13:00 Cal File: 2324062507.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Dichlorodifluoromethane | 85 | 1.632 | 1.632 | (0.375) | 719765 | 50.0000 | 53.5491 | |
| 2 | Chloromethane | 50 | 1.785 | 1.785 | (0.410) | 406641 | 50.0000 | 49.5176 | |
| 3 | Vinyl Chloride | 62 | 1.849 | 1.849 | (0.424) | 426374 | 50.0000 | 52.7059 | |
| 4 | Bromomethane | 94 | 2.072 | 2.072 | (0.476) | 306932 | 50.0000 | 50.1421 | |
| 5 | Chloroethane | 64 | 2.144 | 2.144 | (0.492) | 225647 | 50.0000 | 50.6923 | |
| 6 | Pentane | 41 | 2.245 | 2.245 | (0.516) | 278838 | 50.0000 | 51.2341 | |
| 7 | Trichlorofluoromethane | 101 | 2.248 | 2.248 | (0.516) | 913991 | 50.0000 | 53.0686 | |
| 8 | Dichlorofluoromethane | 67 | 2.277 | 2.277 | (0.523) | 852875 | 50.0000 | 58.6624 | |
| 9 | Ethyl Ether | 74 | 2.442 | 2.442 | (0.561) | 263046 | 50.0000 | 57.9520 | |
| 10 | 1,1-Dichloroethene | 61 | 2.578 | 2.578 | (0.592) | 576774 | 50.0000 | 56.1752 | |
| 11 | Freon 113 | 101 | 2.590 | 2.590 | (0.595) | 391658 | 50.0000 | 56.0780 | |
| 12 | Carbon Disulfide | 76 | 2.619 | 2.619 | (0.601) | 1126146 | 50.0000 | 56.5458 | |
| 13 | Iodomethane | 127 | 2.677 | 2.677 | (0.615) | 219972 | 50.0000 | 52.6709 | |
| 14 | Acrolein | 56 | 2.761 | 2.761 | (0.634) | 377729 | 250.000 | 292.580(A) | |
| 15 | Isopropyl Alcohol | 45 | 2.825 | 2.825 | (0.648) | 137431 | 250.000 | 258.063(A) | |
| 16 | 3-Chloro-1-propene | 41 | 2.851 | 2.851 | (0.654) | 432653 | 50.0000 | 55.1883 | |
| 17 | Methylene Chloride | 84 | 2.911 | 2.911 | (0.668) | 423758 | 50.0000 | 56.9541 | |
| 18 | Acetone | 58 | 2.920 | 2.920 | (0.670) | 198424 | 250.000 | 289.296(A) | |
| 19 | Methyl acetate | 74 | 2.984 | 2.984 | (0.685) | 88550 | 50.0000 | 51.2828 | |
| 20 | trans-1,2-Dichloroethene | 61 | 3.004 | 3.004 | (0.690) | 539022 | 50.0000 | 57.2631 | |
| 21 | Hexane | 57 | 3.045 | 3.045 | (0.699) | 710430 | 50.0000 | 50.8910 | |
| 22 | Methyl t-Butyl Ether | 73 | 3.050 | 3.050 | (0.700) | 1476907 | 50.0000 | 58.7799 | |

Data File: 2324062507.D
Report Date: 27-Jun-2024 16:15



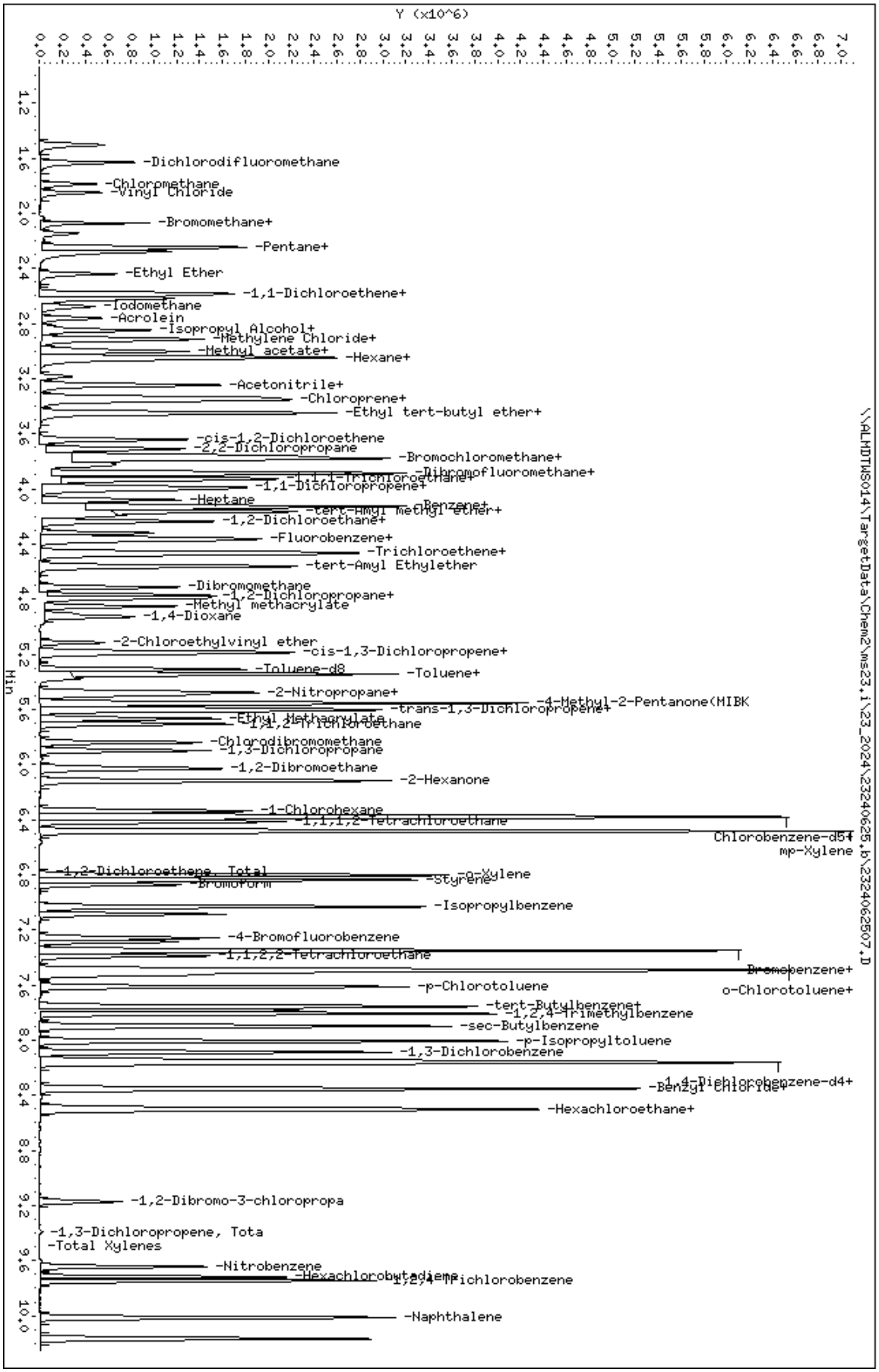
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 23 tert.- Butyl Alcohol | 59 | 3.068 | 3.068 | (0.704) | 307625 | 250.000 | 293.895(A) | |
| | 24 Acetonitrile | 41 | 3.184 | 3.184 | (0.731) | 230387 | 250.000 | 291.650(A) | |
| | 25 Diisopropyl ether | 45 | 3.247 | 3.247 | (0.745) | 1007254 | 50.0000 | 57.9548 | |
| | 26 Chloroprene | 53 | 3.334 | 3.334 | (0.765) | 641269 | 50.0000 | 52.9294 | |
| | 27 1,1-Dichloroethane | 63 | 3.346 | 3.346 | (0.768) | 720177 | 50.0000 | 53.8592 | |
| | 28 Acrylonitrile | 53 | 3.357 | 3.357 | (0.771) | 877946 | 250.000 | 252.996(AM) | MP |
| | 29 Ethyl tert-butyl ether | 59 | 3.450 | 3.450 | (0.792) | 1342880 | 50.0000 | 53.5600 | |
| | 30 n-Propanol | 41 | 3.447 | 3.447 | (0.791) | 235929 | 500.000 | 580.063(A) | |
| | 31 Vinyl Acetate | 86 | 3.450 | 3.450 | (0.792) | 117168 | 50.0000 | 52.4963 | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.644 | 3.644 | (0.837) | 562927 | 50.0000 | 57.7992 | |
| | 33 2,2-Dichloropropane | 77 | 3.711 | 3.711 | (0.852) | 733452 | 50.0000 | 57.0593(M) | MP |
| | 34 Bromochloromethane | 128 | 3.757 | 3.757 | (0.862) | 272717 | 50.0000 | 57.9983 | |
| | 35 Cyclohexane | 84 | 3.783 | 3.783 | (0.868) | 601979 | 50.0000 | 55.1089 | |
| | 36 Chloroform | 83 | 3.780 | 3.780 | (0.868) | 922958 | 50.0000 | 56.4968 | |
| | 37 Ethyl Acetate | 43 | 3.815 | 3.815 | (0.876) | 416156 | 50.0000 | 57.9614 | |
| | 38 Methyl acrylate | 55 | 3.832 | 3.832 | (0.880) | 407226 | 50.0000 | 53.2905 | |
| | 39 Carbon Tetrachloride | 117 | 3.890 | 3.890 | (0.893) | 787031 | 50.0000 | 53.0746(M) | MP |
| $ | 41 Dibromofluoromethane | 113 | 3.884 | 3.884 | (0.892) | 271120 | 30.0000 | 30.1097 | |
| | 40 Tetrahydrofuran | 42 | 3.881 | 3.881 | (0.891) | 560505 | 250.000 | 295.393(A) | |
| | 42 1,1,1-Trichloroethane | 97 | 3.922 | 3.922 | (0.900) | 874174 | 50.0000 | 58.5453 | |
| | 43 2-Butanone | 72 | 3.936 | 3.936 | (0.904) | 308609 | 250.000 | 292.422(A) | |
| | 44 1,1-Dichloropropene | 75 | 3.988 | 3.988 | (0.916) | 609437 | 50.0000 | 57.3390 | |
| | 45 1-Chlorobutane | 41 | 4.006 | 4.006 | (0.920) | 377824 | 50.0000 | 54.7243 | |
| | 46 Heptane | 71 | 4.078 | 4.078 | (0.936) | 269172 | 50.0000 | 54.8091 | |
| | 47 Benzene | 78 | 4.127 | 4.127 | (0.947) | 1599566 | 50.0000 | 57.3442 | |
| | 48 Propionitrile | 54 | 4.110 | 4.110 | (0.944) | 318888 | 250.000 | 257.542(AM) | I |
| | 49 Methacrylonitrile | 67 | 4.127 | 4.127 | (0.947) | 196912 | 50.0000 | 57.8077 | |
| | 50 tert-Amyl methyl ether | 73 | 4.162 | 4.162 | (0.955) | 1371197 | 50.0000 | 54.0813 | |
| | 54 Isobutyl alcohol | 42 | 4.165 | 4.165 | (0.956) | 106903 | 500.000 | 512.291(A) | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.197 | 4.197 | (0.963) | 348418 | 30.0000 | 30.2253(M) | MP |
| | 52 1,2-Dichloroethane | 62 | 4.235 | 4.235 | (0.972) | 753560 | 50.0000 | 57.2566 | |
| | 53 tert-Amyl Alcohol | 59 | 4.237 | 4.237 | (0.973) | 223752 | 250.000 | 286.856(A) | |
| * | 55 Fluorobenzene | 96 | 4.356 | 4.356 | (1.000) | 916291 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.374 | 4.374 | (1.004) | 780195 | 50.0000 | 51.4225 | |
| | 57 Trichloroethene | 95 | 4.458 | 4.458 | (1.023) | 481741 | 50.0000 | 56.3775 | |
| | 58 Methyl cyclohexane | 83 | 4.475 | 4.475 | (0.703) | 641007 | 50.0000 | 55.7185 | |
| | 59 tert-Amyl Ethylether | 59 | 4.562 | 4.562 | (1.047) | 987602 | 50.0000 | 58.5633 | |
| | 60 Dibromomethane | 93 | 4.712 | 4.712 | (1.082) | 321706 | 50.0000 | 58.5481 | |
| | 61 1,2-Dichloropropane | 63 | 4.773 | 4.773 | (1.096) | 352466 | 50.0000 | 57.9447 | |
| | 62 Bromodichloromethane | 83 | 4.793 | 4.793 | (1.100) | 696470 | 50.0000 | 59.4449 | |
| | 63 Methyl methacrylate | 41 | 4.851 | 4.851 | (1.114) | 381330 | 50.0000 | 52.4727 | |
| | 64 1,4-Dioxane | 88 | 4.906 | 4.906 | (1.126) | 173694 | 1250.00 | 1465.28(A) | |
| | 65 2-Chloroethylvinyl ether | 63 | 5.118 | 5.118 | (1.175) | 192392 | 50.0000 | 53.7414 | |
| | 66 cis-1,3-Dichloropropene | 75 | 5.181 | 5.181 | (0.814) | 753775 | 50.0000 | 53.1938 | |
| | 67 Octane | 85 | 5.196 | 5.196 | (0.816) | 259420 | 50.0000 | 57.6626 | |
| $ | 68 Toluene-d8 | 98 | 5.309 | 5.309 | (0.834) | 975888 | 30.0000 | 30.3599 | |
| | 69 Toluene | 92 | 5.344 | 5.344 | (0.839) | 1116562 | 50.0000 | 56.5843 | |
| | 70 Chloroacetonitrile | 75 | 5.378 | 5.378 | (0.845) | 163430 | 250.000 | 264.121(A) | |
| | 71 2-Nitropropane | 41 | 5.474 | 5.474 | (0.860) | 908380 | 250.000 | 270.025(A) | |
| | 72 1,1-Dichloro-2-Propanone | 63 | 5.497 | 5.497 | (0.864) | 78425 | 250.000 | 282.052(A) | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.555 | 5.555 | (0.873) | 1973695 | 250.000 | 272.976(A) | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.593 | 5.593 | (0.879) | 787276 | 50.0000 | 53.8501 | |
| | 74 Tetrachloroethene | 164 | 5.607 | 5.607 | (0.881) | 482469 | 50.0000 | 56.2431 | |
| | 76 Ethyl Methacrylate | 69 | 5.665 | 5.665 | (0.890) | 643225 | 50.0000 | 53.6102 | |

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| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 1,1,2-Trichloroethane | 83 | 5.705 | 5.705 | (0.896) | 342075 | 50.0000 | 58.4192 | |
| 78 | Chlorodibromomethane | 129 | 5.842 | 5.842 | (0.918) | 635027 | 50.0000 | 53.3414 | |
| 79 | 1,3-Dichloropropane | 76 | 5.899 | 5.899 | (0.927) | 728498 | 50.0000 | 59.3062 | |
| 80 | 1,2-Dibromoethane | 107 | 6.021 | 6.021 | (0.946) | 503479 | 50.0000 | 58.7328 | |
| 81 | 2-Hexanone | 43 | 6.117 | 6.117 | (0.961) | 1440967 | 250.000 | 270.131(A) | |
| 82 | 1-Chlorohexane | 91 | 6.337 | 6.337 | (0.995) | 576702 | 50.0000 | 55.9838 | |
| * 83 | Chlorobenzene-d5 | 82 | 6.366 | 6.366 | (1.000) | 403275 | 30.0000 | | |
| 84 | Chlorobenzene | 112 | 6.380 | 6.380 | (1.002) | 1321128 | 50.0000 | 58.2860 | |
| 85 | Ethylbenzene | 106 | 6.383 | 6.383 | (1.003) | 682677 | 50.0000 | 57.1584 | |
| 86 | 1,1,1,2-Tetrachloroethane | 131 | 6.415 | 6.415 | (1.008) | 553969 | 50.0000 | 59.5778 | |
| 87 | mp-Xylene | 106 | 6.484 | 6.484 | (1.019) | 1680062 | 100.000 | 116.346 | |
| 88 | o-Xylene | 106 | 6.803 | 6.803 | (1.069) | 831911 | 50.0000 | 58.6069 | |
| 89 | Styrene | 104 | 6.838 | 6.838 | (0.840) | 1403296 | 50.0000 | 54.5374 | |
| 90 | Bromoform | 173 | 6.872 | 6.872 | (0.844) | 489935 | 50.0000 | 53.8645 | |
| 91 | Isopropylbenzene | 105 | 7.031 | 7.031 | (0.863) | 1982640 | 50.0000 | 54.2586 | |
| M 100 | 1,2-Dichloroethene, Total | 61 | | | | 1101949 | 100.000 | 115.062 | |
| $ 92 | 4-Bromofluorobenzene | 174 | 7.260 | 7.260 | (0.892) | 404103 | 30.0000 | 30.3810 | |
| 93 | Bromobenzene | 156 | 7.350 | 7.350 | (0.903) | 648024 | 50.0000 | 56.7397 | |
| 94 | n-Propylbenzene | 120 | 7.350 | 7.350 | (0.903) | 595074 | 50.0000 | 55.0257 | |
| 95 | 1,1,2,2-Tetrachloroethane | 83 | 7.388 | 7.388 | (0.907) | 557550 | 50.0000 | 59.0316 | |
| 96 | o-Chlorotoluene | 91 | 7.486 | 7.486 | (0.919) | 1702724 | 50.0000 | 57.7306 | |
| 97 | 1,3,5-Trimethylbenzene | 105 | 7.495 | 7.495 | (0.920) | 1854334 | 50.0000 | 58.1574 | |
| 98 | 1,2,3-Trichloropropane | 110 | 7.509 | 7.509 | (0.922) | 239537 | 50.0000 | 59.7873 | |
| 99 | trans-1,4-Dichloro-2-butene | 53 | 7.529 | 7.529 | (0.925) | 203565 | 50.0000 | 54.3006(M) | MP |
| 101 | p-Chlorotoluene | 91 | 7.613 | 7.613 | (0.935) | 1561850 | 50.0000 | 57.2732 | |
| 102 | tert-Butylbenzene | 134 | 7.758 | 7.758 | (0.953) | 460341 | 50.0000 | 57.6585 | |
| 103 | Pentachloroethane | 117 | 7.778 | 7.778 | (0.955) | 412506 | 50.0000 | 54.7490(M) | MP |
| 104 | 1,2,4-Trimethylbenzene | 105 | 7.807 | 7.807 | (0.959) | 1905857 | 50.0000 | 58.8533 | |
| 105 | sec-Butylbenzene | 105 | 7.900 | 7.900 | (0.970) | 2185130 | 50.0000 | 57.5562 | |
| 106 | p-Isopropyltoluene | 134 | 8.007 | 8.007 | (0.983) | 543465 | 50.0000 | 59.2639 | |
| 107 | 1,3-Dichlorobenzene | 146 | 8.088 | 8.088 | (0.993) | 1151646 | 50.0000 | 57.2276 | |
| * 108 | 1,4-Dichlorobenzene-d4 | 152 | 8.143 | 8.143 | (1.000) | 459775 | 30.0000 | | |
| 109 | 1,4-Dichlorobenzene | 146 | 8.158 | 8.158 | (1.002) | 1158461 | 50.0000 | 56.1577 | |
| 110 | Benzyl Chloride | 126 | 8.349 | 8.349 | (1.025) | 265568 | 50.0000 | 53.1242 | |
| 111 | n-Butylbenzene | 134 | 8.355 | 8.355 | (1.026) | 488984 | 50.0000 | 57.6157 | |
| 112 | Hexachloroethane | 117 | 8.497 | 8.497 | (1.043) | 390419 | 50.0000 | 54.0323 | |
| 113 | 1,2-Dichlorobenzene | 146 | 8.505 | 8.505 | (1.044) | 1115087 | 50.0000 | 57.0790 | |
| 114 | 1,2-Dibromo-3-chloropropane | 75 | 9.171 | 9.171 | (1.126) | 154461 | 50.0000 | 59.2893 | |
| 115 | Nitrobenzene | 77 | 9.643 | 9.643 | (1.184) | 604810 | 500.000 | 525.985(A) | |
| 116 | Hexachlorobutadiene | 225 | 9.718 | 9.718 | (1.193) | 374263 | 50.0000 | 55.6924 | |
| M 120 | 1,3-Dichloropropene, Total | 75 | | | | 1541051 | 100.000 | 107.044 | |
| 117 | 1,2,4-Trichlorobenzene | 180 | 9.747 | 9.747 | (1.197) | 791680 | 50.0000 | 58.5688 | |
| M 121 | Total Xylenes | 106 | | | | 2511973 | 150.000 | 174.953 | |
| 118 | Naphthalene | 128 | 10.014 | 10.014 | (1.230) | 2085245 | 50.0000 | 54.9810 | |
| 119 | 1,2,3-Trichlorobenzene | 180 | 10.167 | 10.167 | (1.249) | 793619 | 50.0000 | 59.3331 | |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

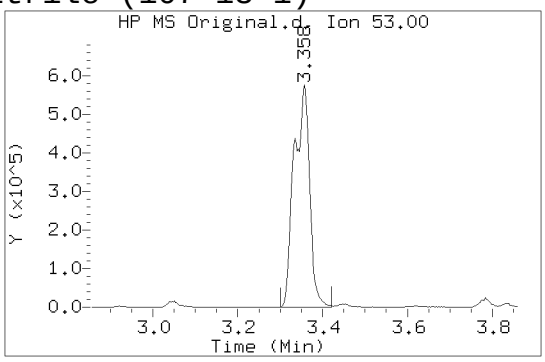

Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane+
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Iodomethane
-Acrolein
-Isopropyl Alcohol+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Dibromofluoromethane+
-1,1,1-Trichloroethane+
-1,1-Dichloropropene+
-Heptane
-Benzene+
-tert-Amyl methyl ether+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-1,2-Dichloroethene, Total
-o-Xylene
-Styrene
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane
Bromobenzene+
-p-Chlorotoluene
o-Chlorotoluene+
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-Benzyl chloride+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
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-Total Xylenes
-Nitrobenzene
-Hexachlorobutadiene
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-Naphthalene
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Instrument: ms23.i
Operator: ILY
Column diameter: 0.25
Page 1

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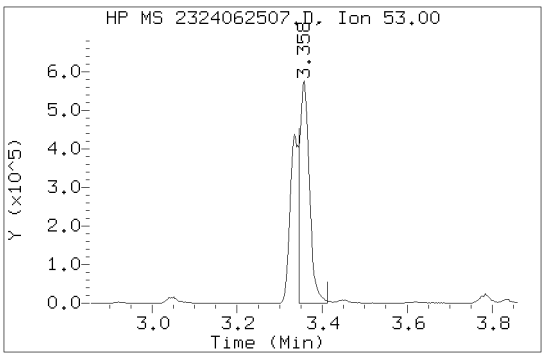
## Acrylonitrile (107-13-1)

Reason Code: MP

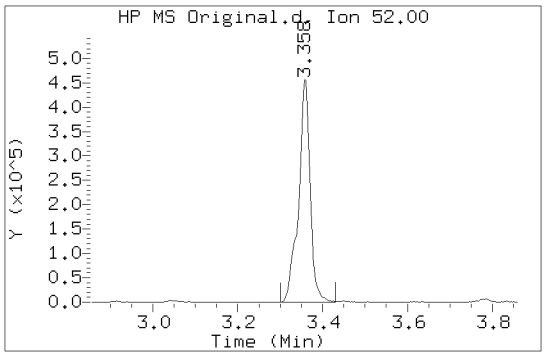
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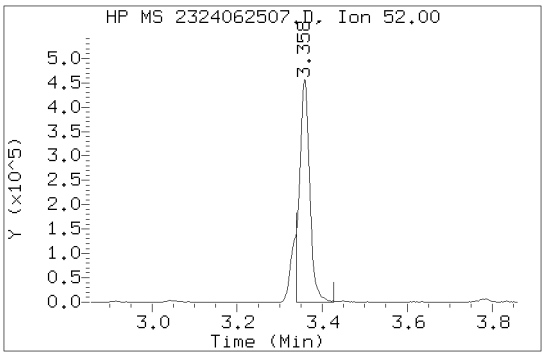

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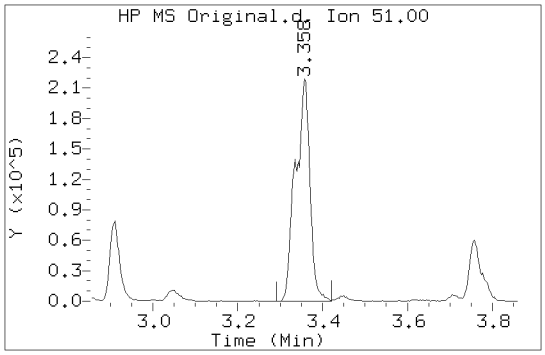

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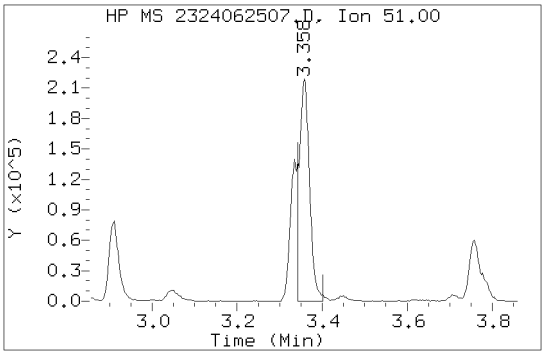

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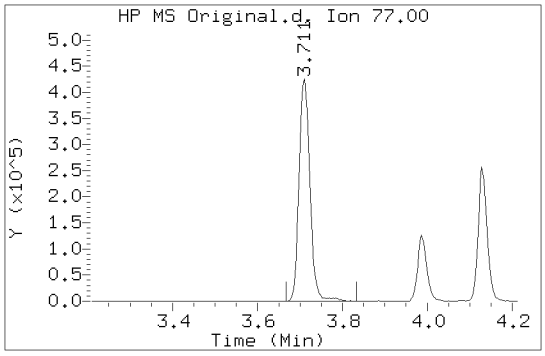

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16:15



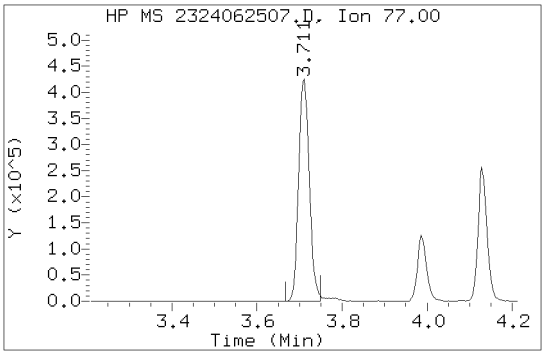

## 2,2-Dichloropropane (594-20-7)

Reason Code: MP

BEFORE
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19:34




AFTER
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16:15

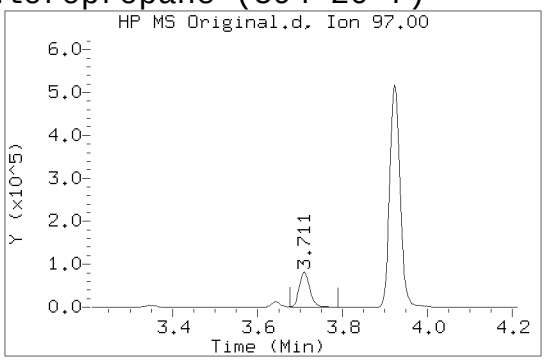


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Inj Date : 25-JUN-2024 13:00
InstruID : ms23.i
LabSampID : 1237

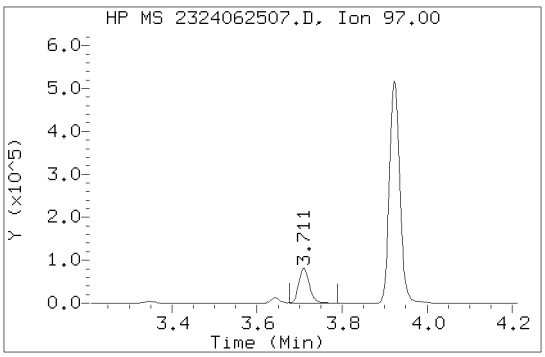
## 2,2-Dichloropropane (594-20-7)

Reason Code: MP

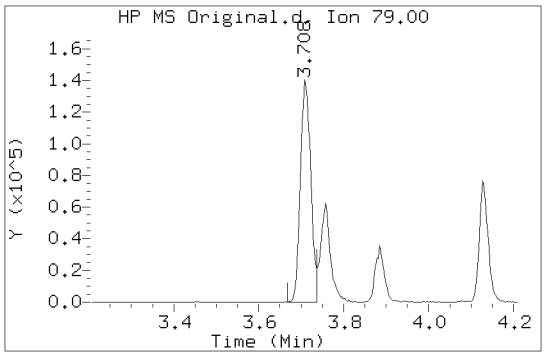
BEFORE
MASS
97
AREA
140090
HEIGHT
83064
25-Jun-2024
19:34



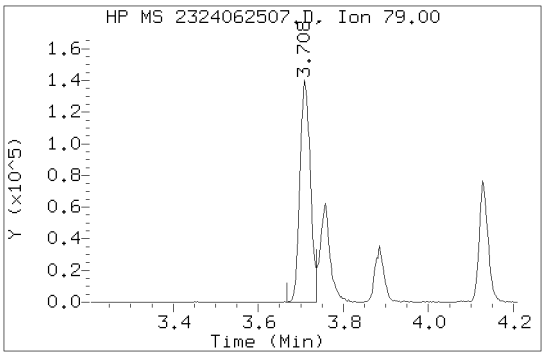

AFTER
MASS
97
AREA
140090
HEIGHT
83064
27-Jun-2024
16:15




BEFORE
MASS
79
AREA
236220
HEIGHT
140352
25-Jun-2024
19:34



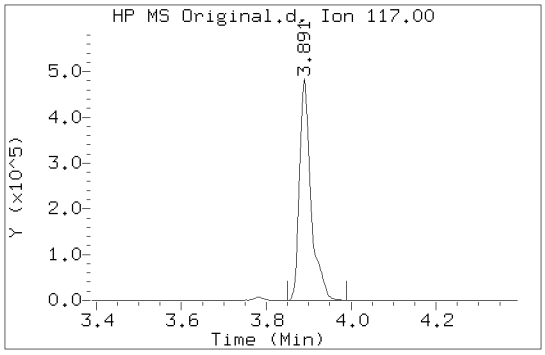

AFTER
MASS
79
AREA
236220
HEIGHT
140352
27-Jun-2024
16:15



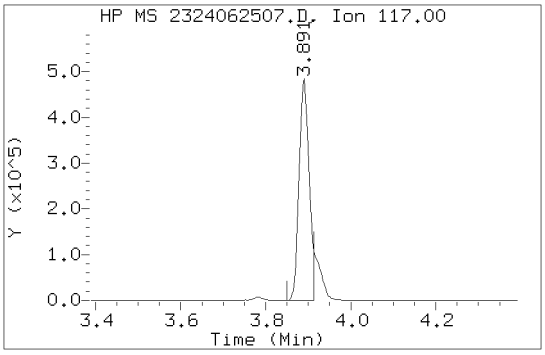

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

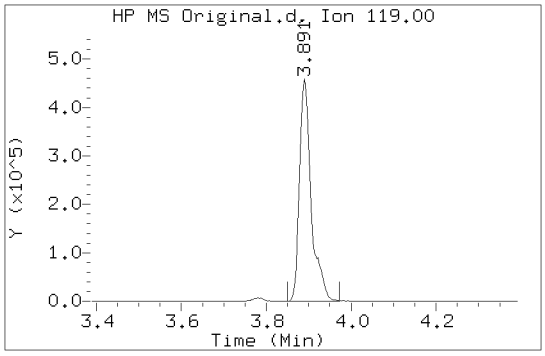
BEFORE
MASS
117
AREA
898618
HEIGHT
484316
25-Jun-2024
19:34



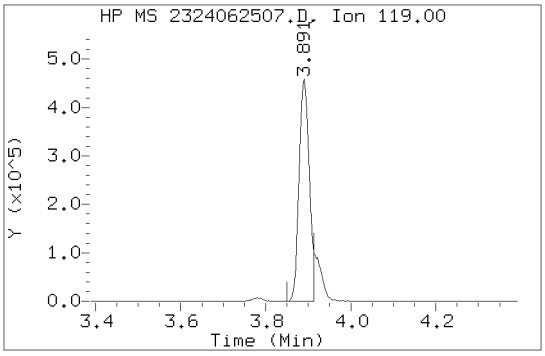

AFTER
MASS
117
AREA
787031
HEIGHT
484316
27-Jun-2024
16:15




BEFORE
MASS
119
AREA
866586
HEIGHT
458831
25-Jun-2024
19:34




AFTER
MASS
119
AREA
756769
HEIGHT
458831
27-Jun-2024
16:15



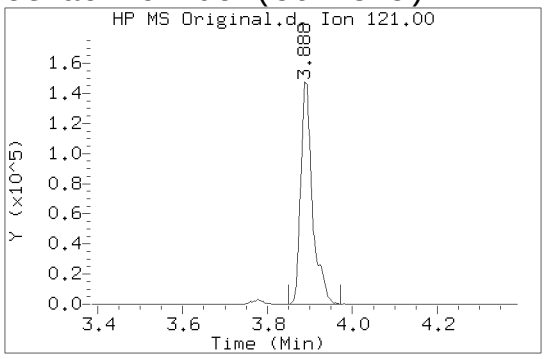
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Inj Date : 25-JUN-2024 13:00
InstruID : ms23.i
LabSampID : 1237

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

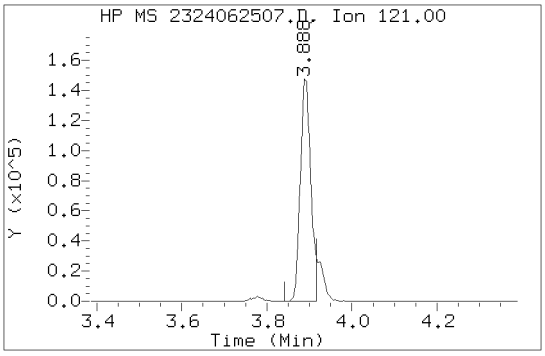
**BEFORE**

MASS
121
AREA
279766
HEIGHT
147584
25-Jun-2024
19:34




**AFTER**

MASS
121
AREA
249844
HEIGHT
147584
27-Jun-2024
16:15

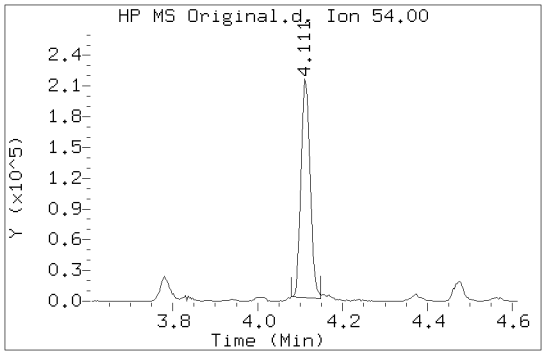



## Propionitrile (107-12-0)

Reason Code: I

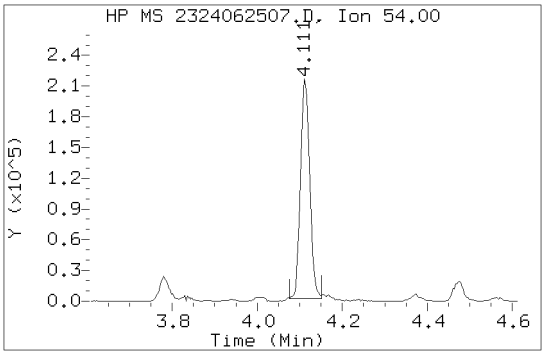
**BEFORE**

MASS
54
AREA
314219
HEIGHT
213465
25-Jun-2024
19:34



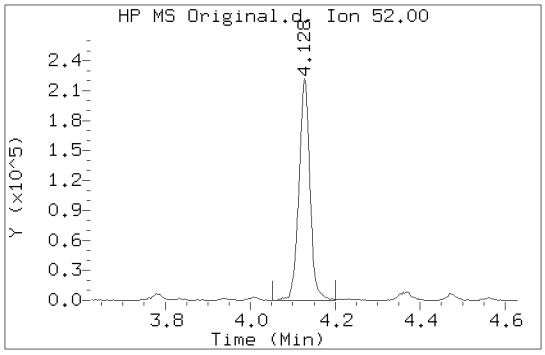

**AFTER**

MASS
54
AREA
318888
HEIGHT
214480
27-Jun-2024
16:15



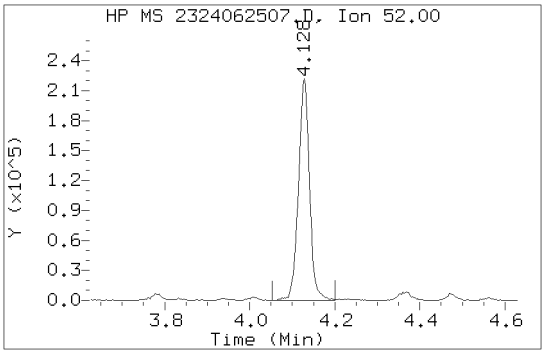

**BEFORE**

MASS
52
AREA
396492
HEIGHT
222016
25-Jun-2024
19:34



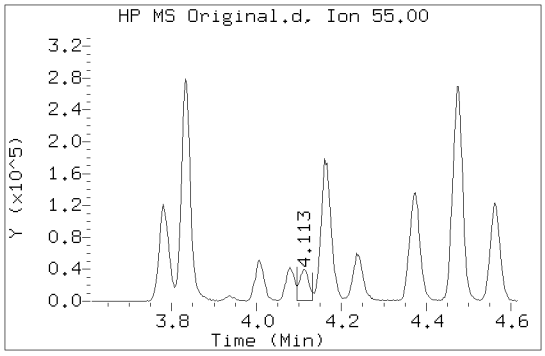

**AFTER**

MASS
52
AREA
396492
HEIGHT
222016
27-Jun-2024
16:15



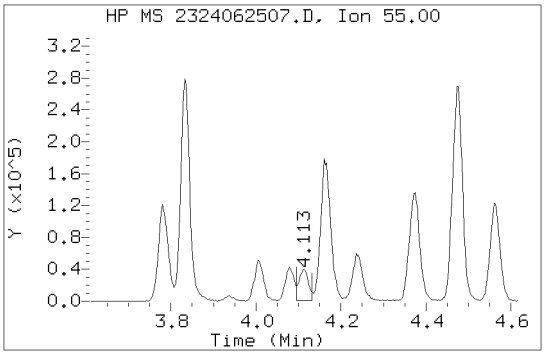

**BEFORE**

MASS
55
AREA
59536
HEIGHT
39245
25-Jun-2024
19:34




**AFTER**

MASS
55
AREA
59536
HEIGHT
39245
27-Jun-2024
16:15

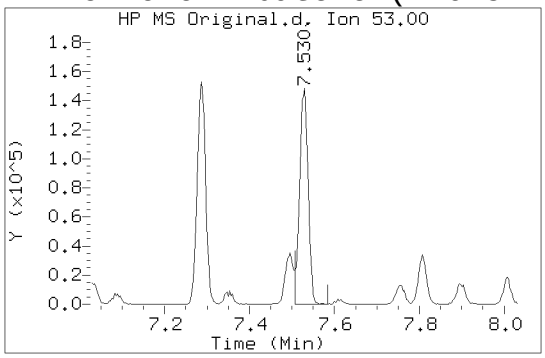


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Inj Date : 25-JUN-2024 13:00
InstruID : ms23.i
LabSampID : 1237

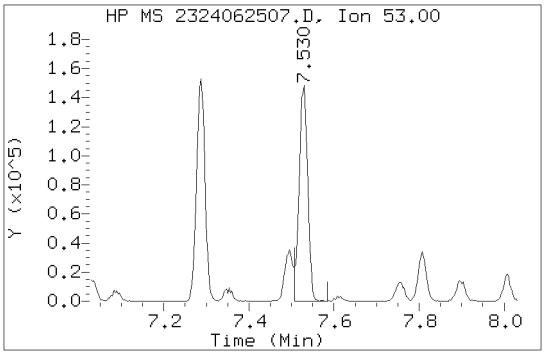
## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

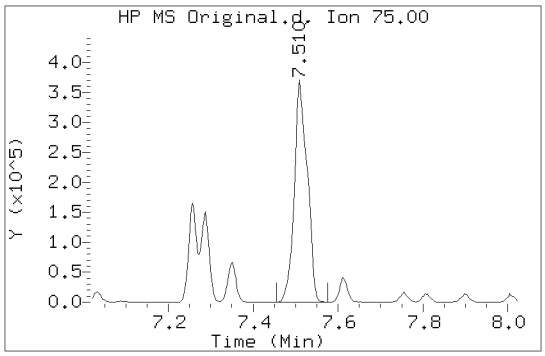
BEFORE
MASS
53
AREA
203565
HEIGHT
148608
25-Jun-2024
19:34



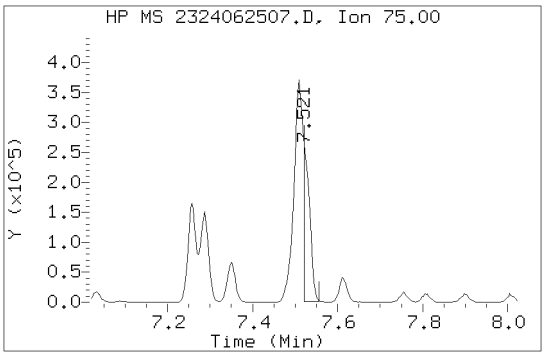

AFTER
MASS
53
AREA
203565
HEIGHT
148608
27-Jun-2024
16:15



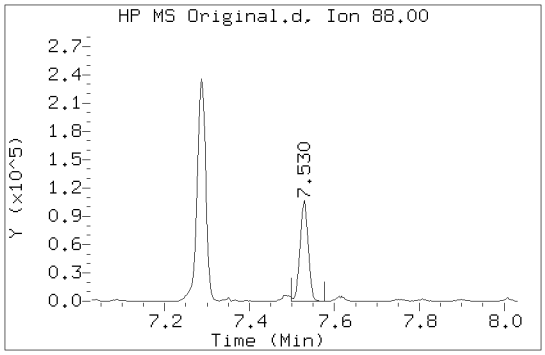

BEFORE
MASS
75
AREA
785667
HEIGHT
371008
25-Jun-2024
19:34



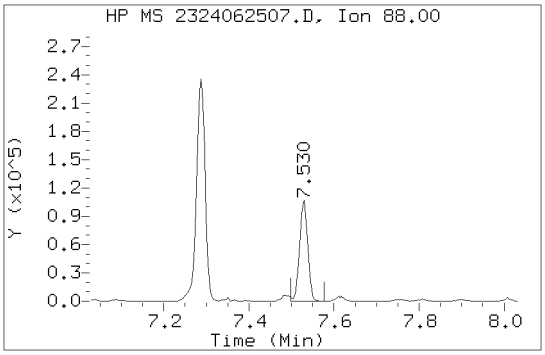

AFTER
MASS
75
AREA
249886
HEIGHT
261073
27-Jun-2024
16:15




BEFORE
MASS
88
AREA
139349
HEIGHT
107000
25-Jun-2024
19:34



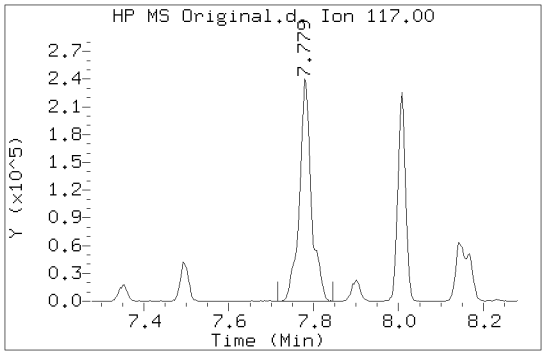

AFTER
MASS
88
AREA
139349
HEIGHT
107000
27-Jun-2024
16:15



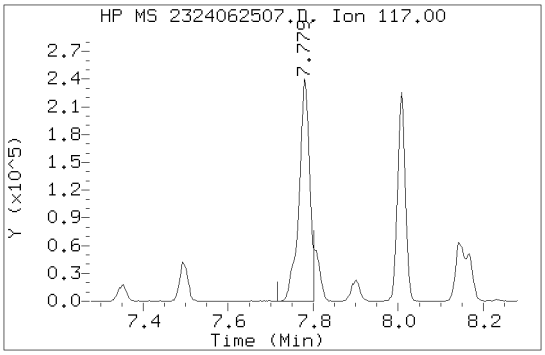

## Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
MASS
117
AREA
460899
HEIGHT
240192
25-Jun-2024
19:34




AFTER
MASS
117
AREA
412506
HEIGHT
240192
27-Jun-2024
16:15

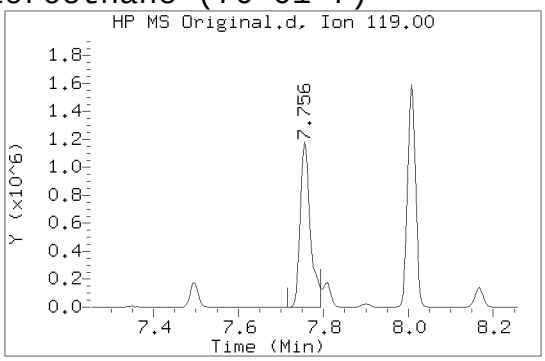


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Inj Date : 25-JUN-2024 13:00
InstruID : ms23.i
LabSampID : 1237

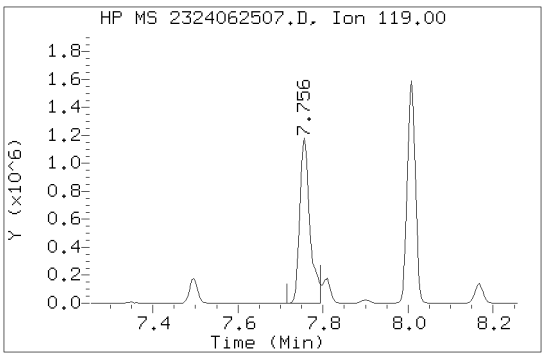
## Pentachloroethane (76-01-7)

Reason Code: MP

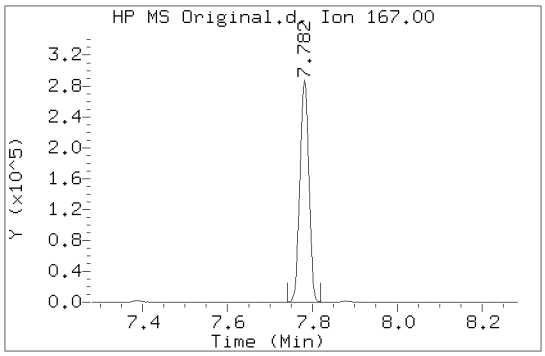
BEFORE
MASS
119
AREA
1942858
HEIGHT
1181001
25-Jun-2024
19:34



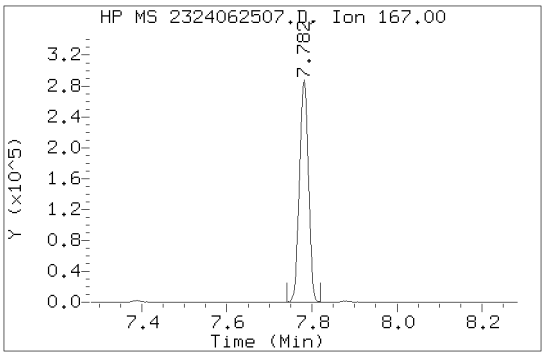

AFTER
MASS
119
AREA
1942858
HEIGHT
1181001
27-Jun-2024
16:15




BEFORE
MASS
167
AREA
414453
HEIGHT
287655
25-Jun-2024
19:34



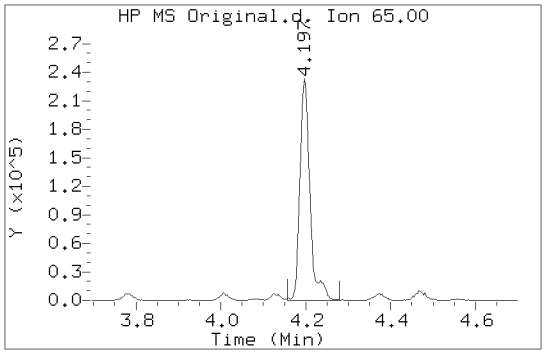

AFTER
MASS
167
AREA
414453
HEIGHT
287655
27-Jun-2024
16:15



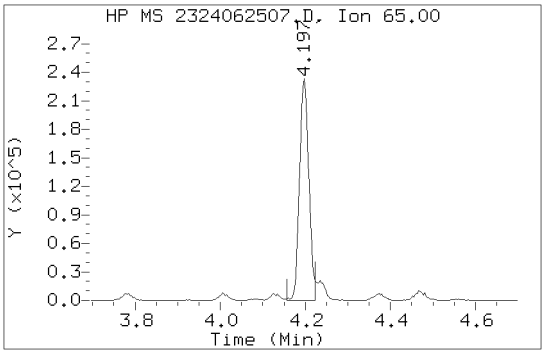

## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

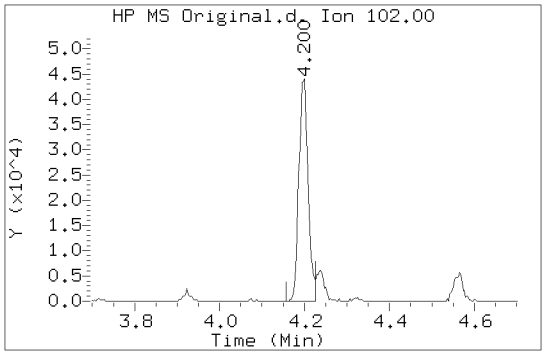
BEFORE
MASS
65
AREA
376238
HEIGHT
232890
25-Jun-2024
19:34



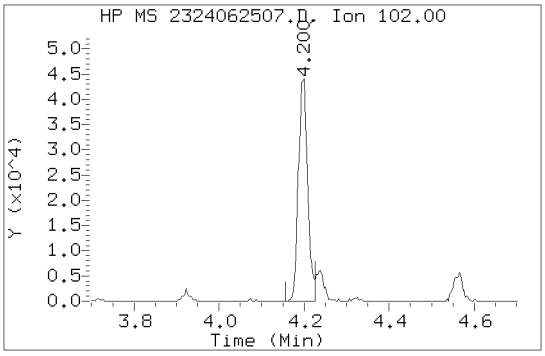

AFTER
MASS
65
AREA
348418
HEIGHT
232890
27-Jun-2024
16:15




BEFORE
MASS
102
AREA
66020
HEIGHT
44048
25-Jun-2024
19:34




AFTER
MASS
102
AREA
66020
HEIGHT
44048
27-Jun-2024
16:15



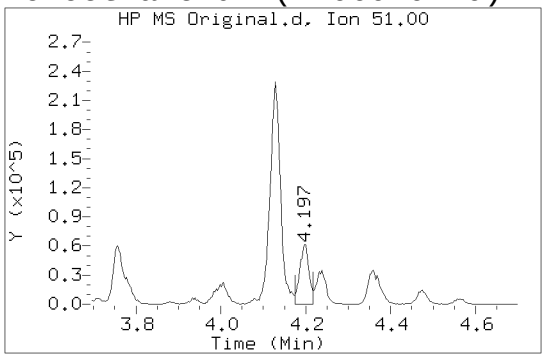
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Inj Date : 25-JUN-2024 13:00
InstruID : ms23.i
LabSampID : 1237

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

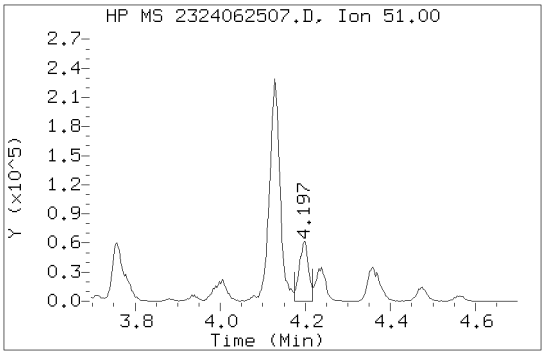
BEFORE

MASS
51
AREA
92513
HEIGHT
61275
25-Jun-2024
19:34




AFTER

MASS
51
AREA
92513
HEIGHT
61275
27-Jun-2024
16:15



# UNASSIGNED PEAK REPORT

Report Date: 06/27/2024 16:15
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240625.b/232406250
Inj Date: 25-JUN-2024 13:00
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062508.D Page 1
Report Date: 27-Jun-2024 16:16

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062508.D
Lab Smp Id: 1238
Inj Date : 25-JUN-2024 13:20
Operator : ILY Inst ID: ms23.i
Smp Info : 1238;;1;1;5;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\23-8260b09.m
Meth Date : 25-Jun-2024 20:25 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 13:20 Cal File: 2324062508.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Dichlorodifluoromethane | 85 | 1.632 | 1.632 | (0.375) | 1422651 | 100.000 | 105.671 | |
| 2 | Chloromethane | 50 | 1.788 | 1.785 | (0.411) | 775316 | 100.000 | 94.2593 | |
| 3 | Vinyl Chloride | 62 | 1.849 | 1.849 | (0.424) | 877458 | 100.000 | 108.291 | |
| 4 | Bromomethane | 94 | 2.072 | 2.072 | (0.476) | 622263 | 100.000 | 101.479 | |
| 5 | Chloroethane | 64 | 2.144 | 2.144 | (0.492) | 459834 | 100.000 | 103.136 | |
| 6 | Pentane | 41 | 2.240 | 2.245 | (0.514) | 541408 | 100.000 | 99.3182 | |
| 7 | Trichlorofluoromethane | 101 | 2.248 | 2.248 | (0.516) | 1831379 | 100.000 | 106.162 | |
| 8 | Dichlorofluoromethane | 67 | 2.277 | 2.277 | (0.523) | 1616116 | 100.000 | 110.980 | |
| 9 | Ethyl Ether | 74 | 2.439 | 2.442 | (0.560) | 484723 | 100.000 | 106.617 | |
| 10 | 1,1-Dichloroethene | 61 | 2.576 | 2.578 | (0.591) | 1116221 | 100.000 | 108.539 | |
| 11 | Freon 113 | 101 | 2.590 | 2.590 | (0.595) | 769355 | 100.000 | 109.979 | |
| 12 | Carbon Disulfide | 76 | 2.619 | 2.619 | (0.601) | 2197757 | 100.000 | 110.175 | |
| 13 | Iodomethane | 127 | 2.677 | 2.677 | (0.615) | 460467 | 100.000 | 99.5723 | |
| 14 | Acrolein | 56 | 2.761 | 2.761 | (0.634) | 703395 | 500.000 | 543.952(A) | |
| 15 | Isopropyl Alcohol | 45 | 2.825 | 2.825 | (0.648) | 258796 | 500.000 | 486.971(A) | |
| 16 | 3-Chloro-1-propene | 41 | 2.848 | 2.851 | (0.654) | 817321 | 100.000 | 103.919 | |
| 17 | Methylene Chloride | 84 | 2.909 | 2.911 | (0.668) | 797894 | 100.000 | 107.065 | |
| 18 | Acetone | 58 | 2.920 | 2.920 | (0.670) | 366152 | 500.000 | 532.976(A) | |
| 19 | Methyl acetate | 74 | 2.984 | 2.984 | (0.685) | 165435 | 100.000 | 95.6550 | |
| 20 | trans-1,2-Dichloroethene | 61 | 3.001 | 3.004 | (0.689) | 1029352 | 100.000 | 109.177 | |
| 21 | Hexane | 57 | 3.045 | 3.045 | (0.699) | 1364814 | 100.000 | 97.6090 | |
| 22 | Methyl t-Butyl Ether | 73 | 3.047 | 3.050 | (0.700) | 2743795 | 100.000 | 109.025 | |

Data File: 2324062508.D
Report Date: 27-Jun-2024 16:16



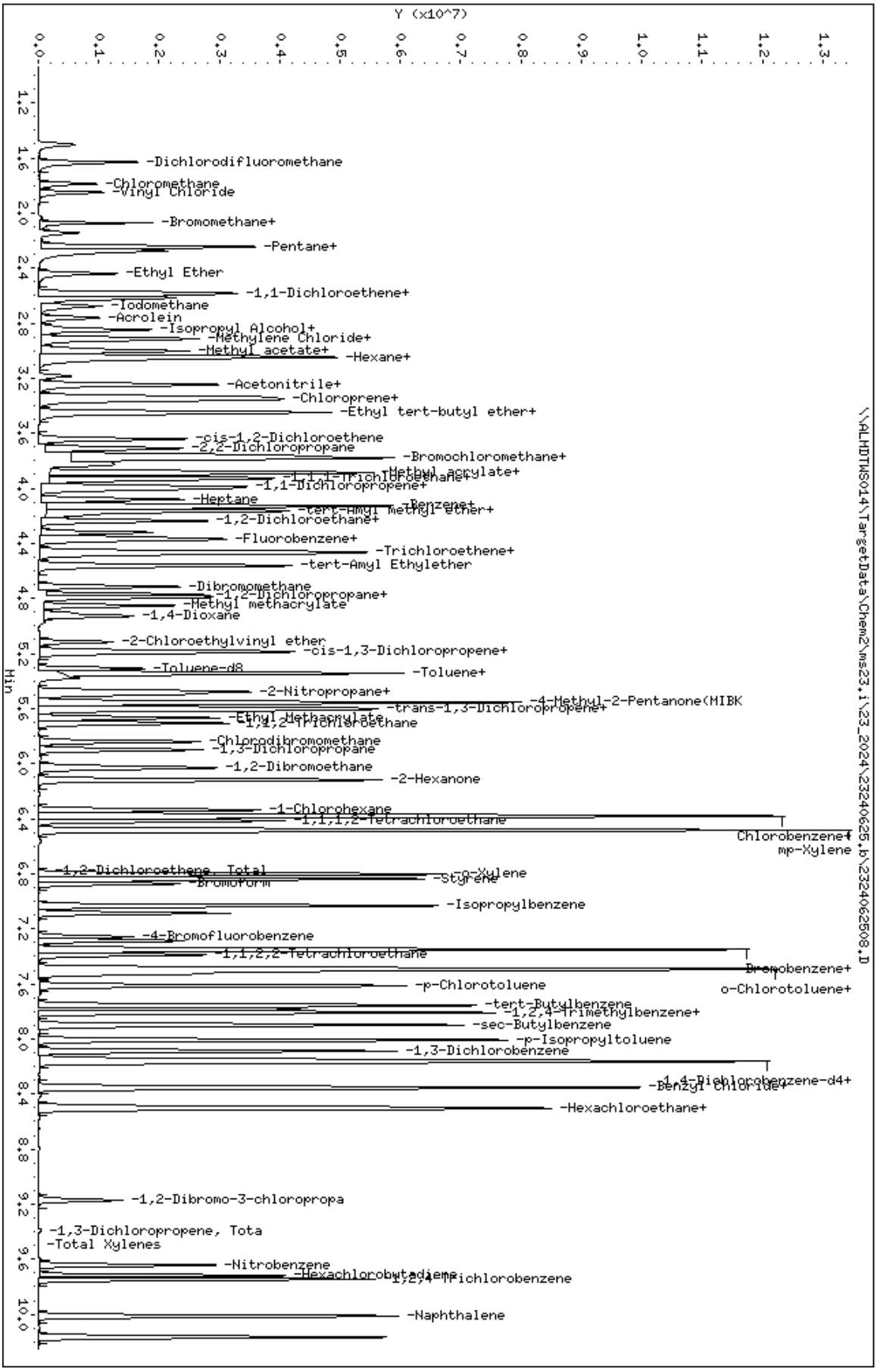
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 23 tert.- Butyl Alcohol | 59 | 3.071 | 3.068 | (0.705) | 576981 | 500.000 | 550.337(A) | |
| | 24 Acetonitrile | 41 | 3.186 | 3.184 | (0.732) | 432786 | 500.000 | 546.984(A) | |
| | 25 Diisopropyl ether | 45 | 3.247 | 3.247 | (0.745) | 1893802 | 100.000 | 108.788 | |
| | 26 Chloroprene | 53 | 3.334 | 3.334 | (0.765) | 1237055 | 100.000 | 101.713 | |
| | 27 1,1-Dichloroethane | 63 | 3.346 | 3.346 | (0.768) | 1340093 | 100.000 | 99.8852 | |
| | 28 Acrylonitrile | 53 | 3.357 | 3.357 | (0.771) | 1771801 | 500.000 | 508.516(AM) | MP |
| | 29 Ethyl tert-butyl ether | 59 | 3.447 | 3.450 | (0.791) | 2505280 | 100.000 | 99.5722 | |
| | 30 n-Propanol | 41 | 3.447 | 3.447 | (0.791) | 441759 | 1000.00 | 1084.37(A) | |
| | 31 Vinyl Acetate | 86 | 3.450 | 3.450 | (0.792) | 224756 | 100.000 | 100.255 | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.641 | 3.644 | (0.836) | 1059398 | 100.000 | 108.599 | |
| | 33 2,2-Dichloropropane | 77 | 3.711 | 3.711 | (0.852) | 1423630 | 100.000 | 110.573 | |
| | 34 Bromochloromethane | 128 | 3.757 | 3.757 | (0.862) | 503623 | 100.000 | 106.932 | |
| | 35 Cyclohexane | 84 | 3.780 | 3.783 | (0.868) | 1191234 | 100.000 | 108.877 | |
| | 36 Chloroform | 83 | 3.780 | 3.780 | (0.868) | 1733898 | 100.000 | 105.965 | |
| | 37 Ethyl Acetate | 43 | 3.815 | 3.815 | (0.876) | 791908 | 100.000 | 110.117 | |
| | 38 Methyl acrylate | 55 | 3.832 | 3.832 | (0.880) | 764157 | 100.000 | 99.6022 | |
| | 39 Carbon Tetrachloride | 117 | 3.890 | 3.890 | (0.893) | 1488538 | 100.000 | 100.016(M) | MP |
| $ | 41 Dibromofluoromethane | 113 | 3.887 | 3.884 | (0.892) | 267560 | 30.0000 | 29.6663 | |
| | 40 Tetrahydrofuran | 42 | 3.881 | 3.881 | (0.891) | 1037493 | 500.000 | 545.887(A) | |
| | 42 1,1,1-Trichloroethane | 97 | 3.922 | 3.922 | (0.900) | 1657226 | 100.000 | 110.809 | |
| | 43 2-Butanone | 72 | 3.939 | 3.936 | (0.904) | 579427 | 500.000 | 548.147(A) | |
| | 44 1,1-Dichloropropene | 75 | 3.986 | 3.988 | (0.915) | 1181490 | 100.000 | 110.981 | |
| | 45 1-Chlorobutane | 41 | 4.006 | 4.006 | (0.920) | 724464 | 100.000 | 104.762 | |
| | 46 Heptane | 71 | 4.078 | 4.078 | (0.936) | 519741 | 100.000 | 105.659 | |
| | 47 Benzene | 78 | 4.130 | 4.127 | (0.948) | 3016978 | 100.000 | 107.983 | |
| | 48 Propionitrile | 54 | 4.113 | 4.110 | (0.944) | 626298 | 500.000 | 503.779(A) | |
| | 49 Methacrylonitrile | 67 | 4.127 | 4.127 | (0.947) | 372500 | 100.000 | 109.179 | |
| | 50 tert-Amyl methyl ether | 73 | 4.162 | 4.162 | (0.955) | 2545425 | 100.000 | 100.046 | |
| | 54 Isobutyl alcohol | 42 | 4.168 | 4.165 | (0.957) | 223192 | 1000.00 | 1009.81(AQ) | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.197 | 4.197 | (0.963) | 332080 | 30.0000 | 28.7614 | |
| | 52 1,2-Dichloroethane | 62 | 4.235 | 4.235 | (0.972) | 1402756 | 100.000 | 106.411 | |
| | 53 tert-Amyl Alcohol | 59 | 4.237 | 4.237 | (0.973) | 427912 | 500.000 | 547.707(A) | |
| * | 55 Fluorobenzene | 96 | 4.356 | 4.356 | (1.000) | 917775 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.371 | 4.374 | (1.003) | 1511490 | 100.000 | 101.064 | |
| | 57 Trichloroethene | 95 | 4.458 | 4.458 | (1.023) | 911445 | 100.000 | 106.493 | |
| | 58 Methyl cyclohexane | 83 | 4.472 | 4.475 | (0.703) | 1267264 | 100.000 | 107.951 | |
| | 59 tert-Amyl Ethylether | 59 | 4.562 | 4.562 | (1.047) | 1859509 | 100.000 | 110.088 | |
| | 60 Dibromomethane | 93 | 4.712 | 4.712 | (1.082) | 609243 | 100.000 | 110.698 | |
| | 61 1,2-Dichloropropane | 63 | 4.770 | 4.773 | (1.095) | 672297 | 100.000 | 110.345 | |
| | 62 Bromodichloromethane | 83 | 4.793 | 4.793 | (1.100) | 1306192 | 100.000 | 111.306 | |
| | 63 Methyl methacrylate | 41 | 4.851 | 4.851 | (1.114) | 727328 | 100.000 | 99.7013 | |
| | 64 1,4-Dioxane | 88 | 4.903 | 4.906 | (1.126) | 333044 | 2500.00 | 2805.01(A) | |
| | 65 2-Chloroethylvinyl ether | 63 | 5.115 | 5.118 | (1.174) | 417185 | 100.000 | 99.4452 | |
| | 66 cis-1,3-Dichloropropene | 75 | 5.181 | 5.181 | (0.814) | 1441791 | 100.000 | 99.4548 | |
| | 67 Octane | 85 | 5.196 | 5.196 | (0.816) | 505688 | 100.000 | 110.153 | |
| $ | 68 Toluene-d8 | 98 | 5.309 | 5.309 | (0.834) | 965840 | 30.0000 | 29.4463 | |
| | 69 Toluene | 92 | 5.344 | 5.344 | (0.839) | 2129239 | 100.000 | 105.745 | |
| | 70 Chloroacetonitrile | 75 | 5.378 | 5.378 | (0.845) | 311694 | 500.000 | 491.844(A) | |
| | 71 2-Nitropropane | 41 | 5.474 | 5.474 | (0.860) | 1715206 | 500.000 | 498.317(A) | |
| | 72 1,1-Dichloro-2-Propanone | 63 | 5.497 | 5.497 | (0.864) | 152490 | 500.000 | 537.452(AQ) | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.555 | 5.555 | (0.873) | 3665300 | 500.000 | 495.839(A) | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.593 | 5.593 | (0.879) | 1490778 | 100.000 | 99.7348 | |
| | 74 Tetrachloroethene | 164 | 5.610 | 5.607 | (0.881) | 923439 | 100.000 | 105.495 | |
| | 76 Ethyl Methacrylate | 69 | 5.668 | 5.665 | (0.890) | 1218362 | 100.000 | 99.2592 | |

Data File: 2324062508.D Page 3
Report Date: 27-Jun-2024 16:16

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 1,1,2-Trichloroethane | 83 | 5.705 | 5.705 | (0.896) | 635754 | 100.000 | 106.401 | |
| 78 | Chlorodibromomethane | 129 | 5.839 | 5.842 | (0.917) | 1204535 | 100.000 | 98.9277 | |
| 79 | 1,3-Dichloropropane | 76 | 5.899 | 5.899 | (0.927) | 1363400 | 100.000 | 108.773 | |
| 80 | 1,2-Dibromoethane | 107 | 6.021 | 6.021 | (0.946) | 948437 | 100.000 | 108.426 | |
| 81 | 2-Hexanone | 43 | 6.117 | 6.117 | (0.961) | 2702708 | 500.000 | 495.392(A) | |
| 82 | 1-Chlorohexane | 91 | 6.337 | 6.337 | (0.995) | 1137949 | 100.000 | 108.257 | |
| * 83 | Chlorobenzene-d5 | 82 | 6.366 | 6.366 | (1.000) | 411507 | 30.0000 | (M) | I |
| 84 | Chlorobenzene | 112 | 6.377 | 6.380 | (1.002) | 2503203 | 100.000 | 108.228 | |
| 85 | Ethylbenzene | 106 | 6.383 | 6.383 | (1.003) | 1294890 | 100.000 | 106.248 | |
| 86 | 1,1,1,2-Tetrachloroethane | 131 | 6.415 | 6.415 | (1.008) | 1045514 | 100.000 | 110.193 | |
| 87 | mp-Xylene | 106 | 6.481 | 6.484 | (1.018) | 3209974 | 200.000 | 217.846(A) | |
| 88 | o-Xylene | 106 | 6.803 | 6.803 | (1.069) | 1592562 | 100.000 | 109.949 | |
| 89 | Styrene | 104 | 6.838 | 6.838 | (0.840) | 2664565 | 100.000 | 100.484 | |
| 90 | Bromoform | 173 | 6.872 | 6.872 | (0.844) | 943750 | 100.000 | 100.613 | |
| 91 | Isopropylbenzene | 105 | 7.031 | 7.031 | (0.863) | 3847733 | 100.000 | 102.255 | |
| M 100 | 1,2-Dichloroethene, Total | 61 | | | | 2088750 | 200.000 | 217.776 | |
| $ 92 | 4-Bromofluorobenzene | 174 | 7.257 | 7.260 | (0.891) | 412155 | 30.0000 | 30.1222 | |
| 93 | Bromobenzene | 156 | 7.350 | 7.350 | (0.903) | 1230185 | 100.000 | 104.709 | |
| 94 | n-Propylbenzene | 120 | 7.350 | 7.350 | (0.903) | 1170335 | 100.000 | 105.201 | |
| 95 | 1,1,2,2-Tetrachloroethane | 83 | 7.388 | 7.388 | (0.907) | 1055370 | 100.000 | 108.623 | |
| 96 | o-Chlorotoluene | 91 | 7.486 | 7.486 | (0.919) | 3244295 | 100.000 | 106.930 | |
| 97 | 1,3,5-Trimethylbenzene | 105 | 7.495 | 7.495 | (0.920) | 3580215 | 100.000 | 109.155 | |
| 98 | 1,2,3-Trichloropropane | 110 | 7.506 | 7.509 | (0.922) | 448666 | 100.000 | 108.862 | |
| 99 | trans-1,4-Dichloro-2-butene | 53 | 7.529 | 7.529 | (0.925) | 388645 | 100.000 | 100.493(Q) | |
| 101 | p-Chlorotoluene | 91 | 7.613 | 7.613 | (0.935) | 3012791 | 100.000 | 107.398 | |
| 102 | tert-Butylbenzene | 134 | 7.752 | 7.758 | (0.952) | 883541 | 100.000 | 107.579 | |
| 103 | Pentachloroethane | 117 | 7.781 | 7.778 | (0.956) | 787242 | 100.000 | 101.387(M) | MP |
| 104 | 1,2,4-Trimethylbenzene | 105 | 7.807 | 7.807 | (0.959) | 3611390 | 100.000 | 108.410 | |
| 105 | sec-Butylbenzene | 105 | 7.897 | 7.900 | (0.970) | 4231470 | 100.000 | 108.348 | |
| 106 | p-Isopropyltoluene | 134 | 8.007 | 8.007 | (0.983) | 1047957 | 100.000 | 111.091 | |
| 107 | 1,3-Dichlorobenzene | 146 | 8.088 | 8.088 | (0.993) | 2216783 | 100.000 | 107.084 | |
| * 108 | 1,4-Dichlorobenzene-d4 | 152 | 8.143 | 8.143 | (1.000) | 472965 | 30.0000 | (Q) | |
| 109 | 1,4-Dichlorobenzene | 146 | 8.158 | 8.158 | (1.002) | 2215116 | 100.000 | 104.386 | |
| 110 | Benzyl Chloride | 126 | 8.349 | 8.349 | (1.025) | 518251 | 100.000 | 100.473 | |
| 111 | n-Butylbenzene | 134 | 8.355 | 8.355 | (1.026) | 942432 | 100.000 | 107.947 | |
| 112 | Hexachloroethane | 117 | 8.494 | 8.497 | (1.043) | 757185 | 100.000 | 101.670 | |
| 113 | 1,2-Dichlorobenzene | 146 | 8.508 | 8.505 | (1.045) | 2130300 | 100.000 | 106.005 | |
| 114 | 1,2-Dibromo-3-chloropropane | 75 | 9.171 | 9.171 | (1.126) | 297744 | 100.000 | 111.101 | |
| 115 | Nitrobenzene | 77 | 9.640 | 9.643 | (1.184) | 1236974 | 1000.00 | 998.519(A) | |
| 116 | Hexachlorobutadiene | 225 | 9.718 | 9.718 | (1.193) | 700054 | 100.000 | 101.267 | |
| M 120 | 1,3-Dichloropropene, Total | 75 | | | | 2932569 | 200.000 | 199.190 | |
| 117 | 1,2,4-Trichlorobenzene | 180 | 9.744 | 9.747 | (1.197) | 1510861 | 100.000 | 108.657 | |
| M 121 | Total Xylenes | 106 | | | | 4802536 | 300.000 | 327.796 | |
| 118 | Naphthalene | 128 | 10.014 | 10.014 | (1.230) | 3980034 | 100.000 | 101.826 | |
| 119 | 1,2,3-Trichlorobenzene | 180 | 10.164 | 10.167 | (1.248) | 1524703 | 100.000 | 110.812 | |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

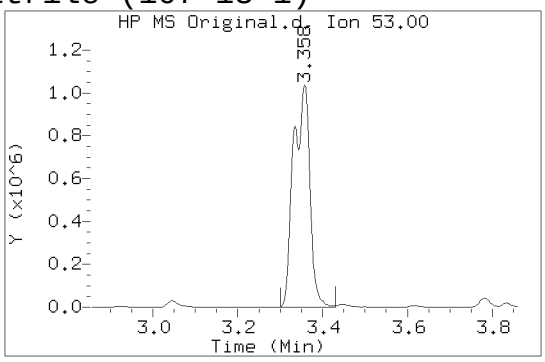

Y (x10^7)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane+
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Iodomethane
-Acrolein
-Isopropyl Alcohol+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Methyl acrylate+
-1,1-Dichloropropene+
-Heptane
-Benzene+
-tert-Amyl Methyl Ether+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene+
mp-Xylene
-1,2-Dichloroethene, Total
-o-Xylene
-Bromoform
-Styrene
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane
Bromobenzene+
-p-Chlorotoluene
o-Chlorotoluene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Total Xylenes
-Nitrobenzene
-Hexachlorobutadiene
1,2,4-Trichlorobenzene
-Naphthalene
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Instrument: ms23,i
Operator: ILY
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Page 1

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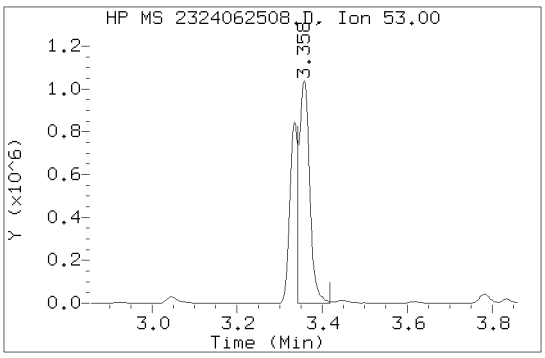
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Reason Code: MP

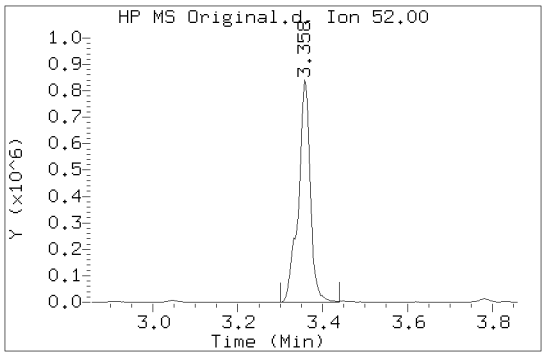
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25-Jun-2024
19:38



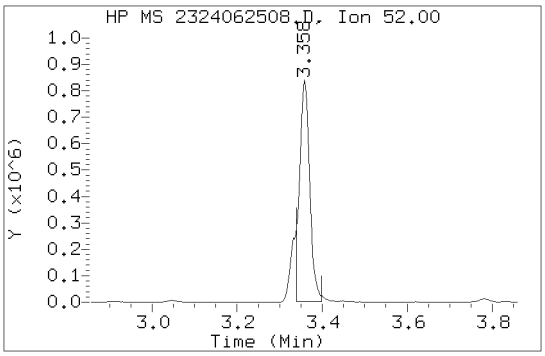

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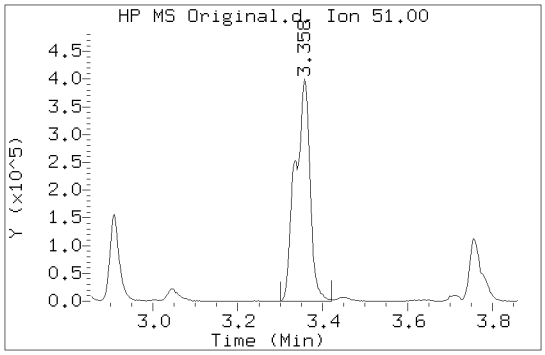

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25-Jun-2024
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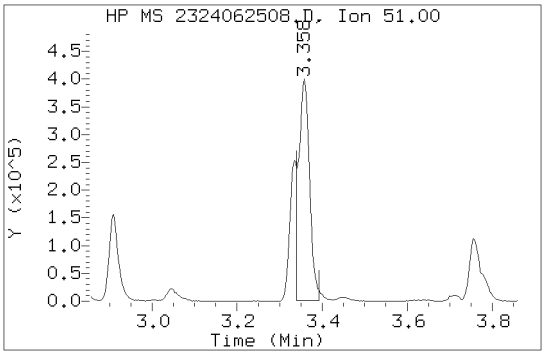

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**BEFORE**
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19:38



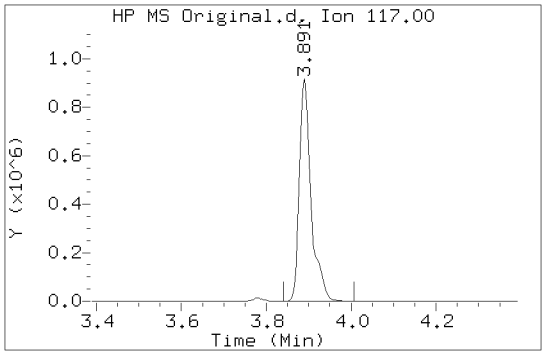

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27-Jun-2024
16:16



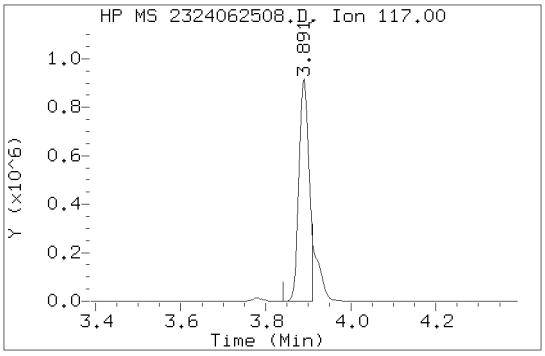

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

**BEFORE**
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25-Jun-2024
19:38




**AFTER**
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27-Jun-2024
16:16

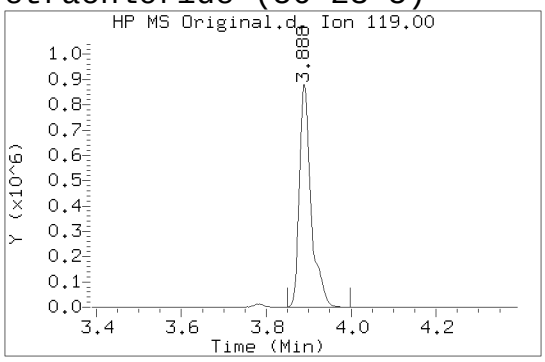


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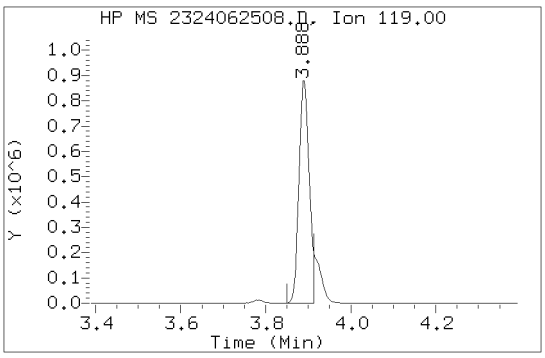
## Carbon Tetrachloride (56-23-5)

Reason Code: MP

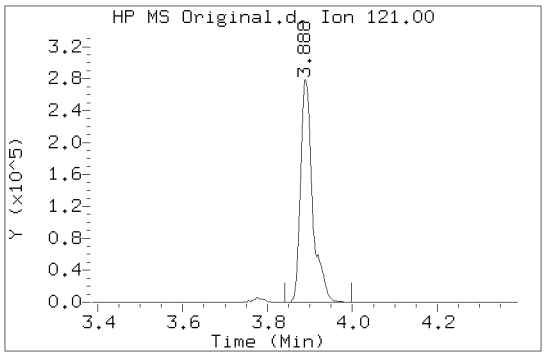
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25-Jun-2024
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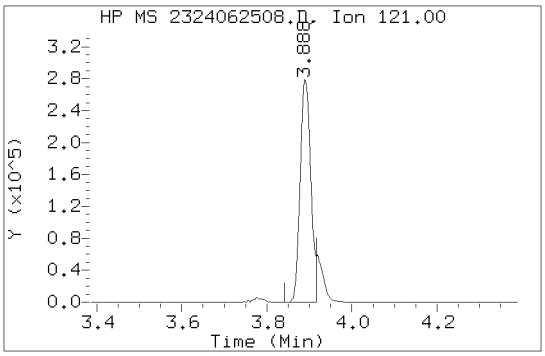

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27-Jun-2024
16:16




BEFORE
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25-Jun-2024
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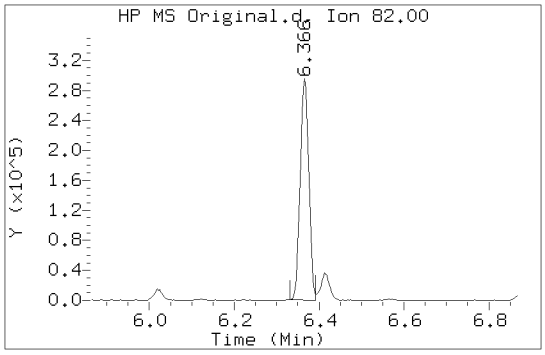

AFTER
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27-Jun-2024
16:16



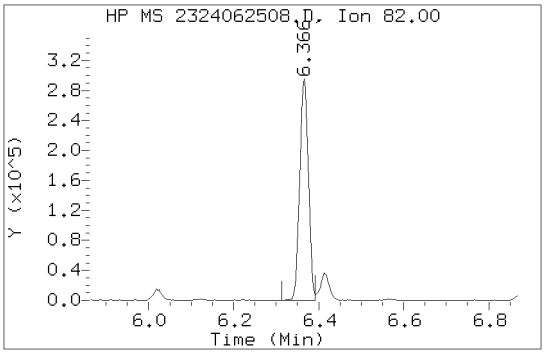

## Chlorobenzene-d5 (3114-55-4)

Reason Code: I

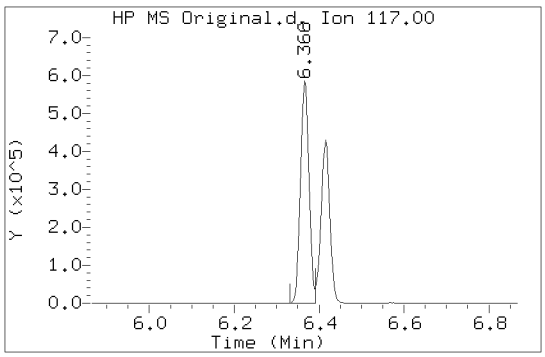
BEFORE
MASS
82
AREA
408438
HEIGHT
295020
25-Jun-2024
19:38



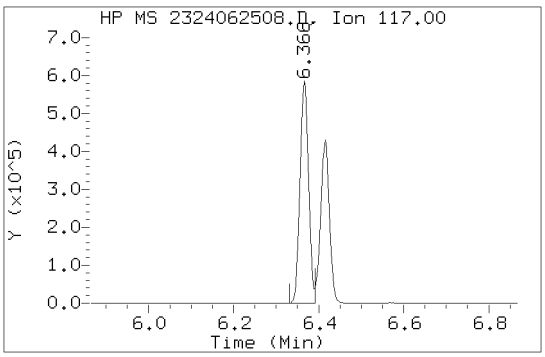

AFTER
MASS
82
AREA
411507
HEIGHT
295680
27-Jun-2024
16:16




BEFORE
MASS
117
AREA
804755
HEIGHT
585459
25-Jun-2024
19:38




AFTER
MASS
117
AREA
804755
HEIGHT
585459
27-Jun-2024
16:16



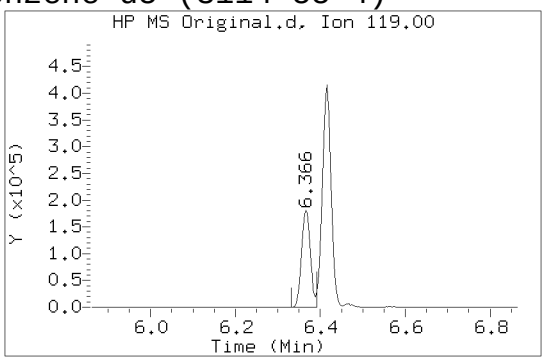
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Inj Date : 25-JUN-2024 13:20
InstruID : ms23.i
LabSampID : 1238

## Chlorobenzene-d5 (3114-55-4)

Reason Code: I

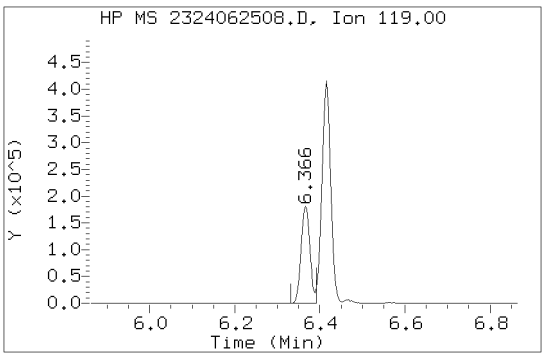
**BEFORE**

MASS
119
AREA
259717
HEIGHT
180318
25-Jun-2024
19:38




**AFTER**

MASS
119
AREA
259717
HEIGHT
180318
27-Jun-2024
16:16

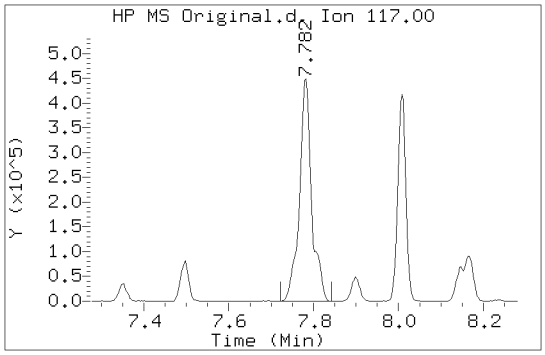



## Pentachloroethane (76-01-7)

Reason Code: MP

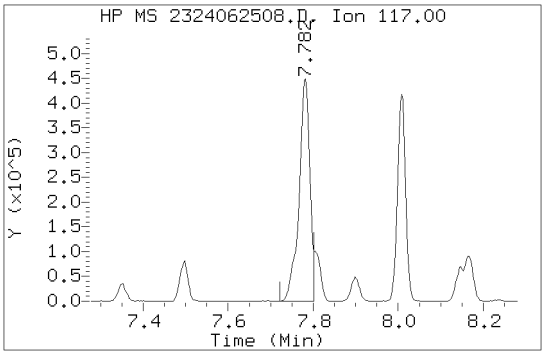
**BEFORE**

MASS
117
AREA
880476
HEIGHT
448610
25-Jun-2024
19:38



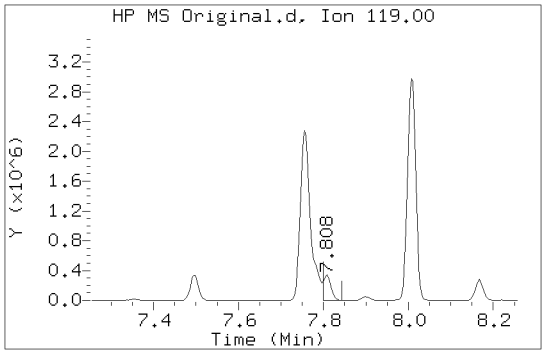

**AFTER**

MASS
117
AREA
787242
HEIGHT
448610
27-Jun-2024
16:16



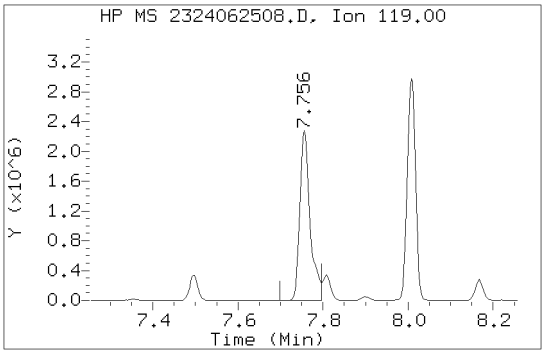

**BEFORE**

MASS
119
AREA
417864
HEIGHT
338805
25-Jun-2024
19:38



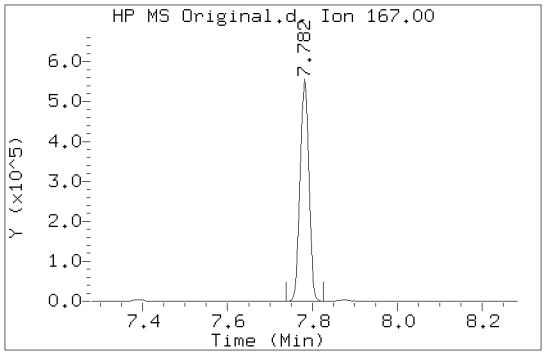

**AFTER**

MASS
119
AREA
3778085
HEIGHT
2277168
27-Jun-2024
16:16



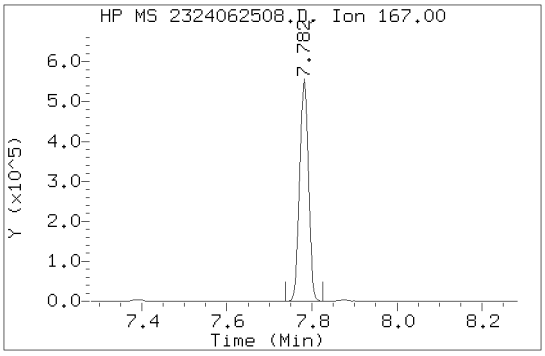

**BEFORE**

MASS
167
AREA
789876
HEIGHT
556800
25-Jun-2024
19:38




**AFTER**

MASS
167
AREA
789876
HEIGHT
556800
27-Jun-2024
16:16



# UNASSIGNED PEAK REPORT

Report Date: 06/27/2024 16:16
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240625.b/2324062508
Inj Date: 25-JUN-2024 13:20
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062509.D Page 1
Report Date: 27-Jun-2024 16:16

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062509.D
Lab Smp Id: 1239
Inj Date : 25-JUN-2024 13:39
Operator : ILY Inst ID: ms23.i
Smp Info : 1239;;1;1;6;;;
Misc Info :
Comment :
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Meth Date : 25-Jun-2024 20:25 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 13:39 Cal File: 2324062509.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Dichlorodifluoromethane | 85 | 1.629 | 1.632 | (0.374) | 2706018 | 200.000 | 204.925(A) | |
| 2 | Chloromethane | 50 | 1.785 | 1.785 | (0.410) | 1579539 | 200.000 | 195.786 | |
| 3 | Vinyl Chloride | 62 | 1.849 | 1.849 | (0.424) | 1697556 | 200.000 | 213.597(A) | |
| 4 | Bromomethane | 94 | 2.072 | 2.072 | (0.476) | 1219692 | 200.000 | 202.782(A) | |
| 5 | Chloroethane | 64 | 2.138 | 2.144 | (0.491) | 930349 | 200.000 | 212.746(A) | |
| 6 | Pentane | 41 | 2.234 | 2.245 | (0.513) | 1045339 | 200.000 | 195.509 | |
| 7 | Trichlorofluoromethane | 101 | 2.242 | 2.248 | (0.515) | 3448808 | 200.000 | 203.830(A) | |
| 8 | Dichlorofluoromethane | 67 | 2.274 | 2.277 | (0.522) | 3128788 | 200.000 | 219.055(A) | |
| 9 | Ethyl Ether | 74 | 2.439 | 2.442 | (0.560) | 970148 | 200.000 | 217.559(A) | |
| 10 | 1,1-Dichloroethene | 61 | 2.575 | 2.578 | (0.591) | 2171228 | 200.000 | 215.252(A) | |
| 11 | Freon 113 | 101 | 2.590 | 2.590 | (0.595) | 1475966 | 200.000 | 215.112(A) | |
| 12 | Carbon Disulfide | 76 | 2.616 | 2.619 | (0.601) | 4301442 | 200.000 | 219.848(A) | |
| 13 | Iodomethane | 127 | 2.677 | 2.677 | (0.615) | 956597 | 200.000 | 180.941 | |
| 14 | Acrolein | 56 | 2.761 | 2.761 | (0.634) | 1387432 | 1000.00 | 1093.90(A) | |
| 15 | Isopropyl Alcohol | 45 | 2.833 | 2.825 | (0.650) | 529233 | 1000.00 | 1017.52(A) | |
| 16 | 3-Chloro-1-propene | 41 | 2.848 | 2.851 | (0.654) | 1488539 | 200.000 | 192.797 | |
| 17 | Methylene Chloride | 84 | 2.908 | 2.911 | (0.668) | 1569985 | 200.000 | 214.786(A) | |
| 18 | Acetone | 58 | 2.920 | 2.920 | (0.670) | 719616 | 1000.00 | 1067.95(A) | |
| 19 | Methyl acetate | 74 | 2.984 | 2.984 | (0.685) | 323377 | 200.000 | 190.632 | |
| 20 | trans-1,2-Dichloroethene | 61 | 3.001 | 3.004 | (0.689) | 2004006 | 200.000 | 216.705(A) | |
| 21 | Hexane | 57 | 3.044 | 3.045 | (0.699) | 2641102 | 200.000 | 192.578 | |
| 22 | Methyl t-Butyl Ether | 73 | 3.047 | 3.050 | (0.700) | 5335306 | 200.000 | 216.141(A) | |

Data File: 2324062509.D
Report Date: 27-Jun-2024 16:16



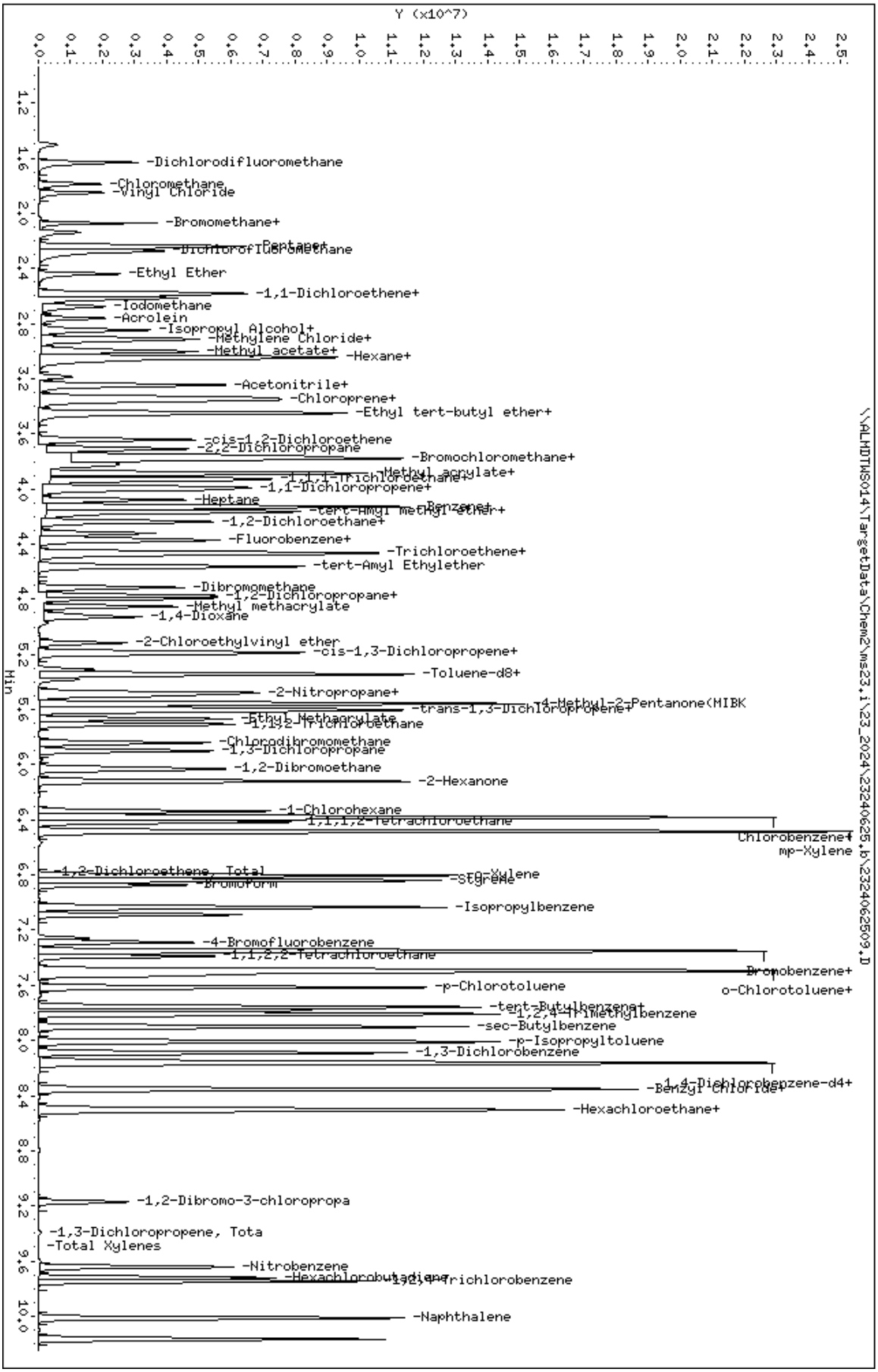
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 23 tert.- Butyl Alcohol | 59 | 3.076 | 3.068 | (0.706) | 1148873 | 1000.00 | 1117.24(A) | |
| | 24 Acetonitrile | 41 | 3.186 | 3.184 | (0.732) | 843380 | 1000.00 | 1086.75(A) | |
| | 25 Diisopropyl ether | 45 | 3.244 | 3.247 | (0.745) | 3733381 | 200.000 | 218.653(A) | |
| | 26 Chloroprene | 53 | 3.334 | 3.334 | (0.765) | 2394765 | 200.000 | 200.512(A) | |
| | 27 1,1-Dichloroethane | 63 | 3.346 | 3.346 | (0.768) | 2614914 | 200.000 | 198.515 | |
| | 28 Acrylonitrile | 53 | 3.357 | 3.357 | (0.771) | 3423071 | 1000.00 | 1000.46(AM) | MP |
| | 29 Ethyl tert-butyl ether | 59 | 3.447 | 3.450 | (0.791) | 4924429 | 200.000 | 199.327 | |
| | 30 n-Propanol | 41 | 3.447 | 3.447 | (0.791) | 869443 | 2000.00 | 2175.89(A) | |
| | 31 Vinyl Acetate | 86 | 3.450 | 3.450 | (0.792) | 440996 | 200.000 | 200.247(A) | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.641 | 3.644 | (0.836) | 2075432 | 200.000 | 216.911(A) | |
| | 33 2,2-Dichloropropane | 77 | 3.707 | 3.711 | (0.851) | 2742036 | 200.000 | 217.135(AM) | MP |
| | 34 Bromochloromethane | 128 | 3.757 | 3.757 | (0.862) | 954379 | 200.000 | 206.598(A) | |
| | 35 Cyclohexane | 84 | 3.780 | 3.783 | (0.868) | 2289166 | 200.000 | 213.315(A) | |
| | 36 Chloroform | 83 | 3.780 | 3.780 | (0.868) | 3359518 | 200.000 | 209.325(A) | |
| | 37 Ethyl Acetate | 43 | 3.815 | 3.815 | (0.876) | 1564086 | 200.000 | 221.741(A) | |
| | 38 Methyl acrylate | 55 | 3.832 | 3.832 | (0.880) | 1510437 | 200.000 | 200.448(A) | |
| | 39 Carbon Tetrachloride | 117 | 3.887 | 3.890 | (0.892) | 2915544 | 200.000 | 199.498(M) | MP |
| $ | 41 Dibromofluoromethane | 113 | 3.884 | 3.884 | (0.892) | 267420 | 30.0000 | 30.2302 | |
| | 40 Tetrahydrofuran | 42 | 3.881 | 3.881 | (0.891) | 2041990 | 1000.00 | 1095.41(A) | |
| | 42 1,1,1-Trichloroethane | 97 | 3.922 | 3.922 | (0.900) | 3185481 | 200.000 | 217.156(A) | |
| | 43 2-Butanone | 72 | 3.939 | 3.936 | (0.904) | 1105948 | 1000.00 | 1066.69(A) | |
| | 44 1,1-Dichloropropene | 75 | 3.985 | 3.988 | (0.915) | 2291741 | 200.000 | 219.477(A) | |
| | 45 1-Chlorobutane | 41 | 4.006 | 4.006 | (0.920) | 1413022 | 200.000 | 208.326(A) | |
| | 46 Heptane | 71 | 4.078 | 4.078 | (0.936) | 1003579 | 200.000 | 208.006(A) | |
| | 47 Benzene | 78 | 4.127 | 4.127 | (0.947) | 5841261 | 200.000 | 213.155(A) | |
| | 48 Propionitrile | 54 | 4.113 | 4.110 | (0.944) | 1222273 | 1000.00 | 1001.13(A) | |
| | 49 Methacrylonitrile | 67 | 4.127 | 4.127 | (0.947) | 739070 | 200.000 | 220.852(A) | |
| | 50 tert-Amyl methyl ether | 73 | 4.162 | 4.162 | (0.955) | 4957541 | 200.000 | 198.446 | |
| | 54 Isobutyl alcohol | 42 | 4.171 | 4.165 | (0.957) | 479826 | 2000.00 | 1997.77(AQ) | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.197 | 4.197 | (0.963) | 328563 | 30.0000 | 29.0130(Q) | |
| | 52 1,2-Dichloroethane | 62 | 4.237 | 4.235 | (0.973) | 2731383 | 200.000 | 211.248(A) | |
| | 53 tert-Amyl Alcohol | 59 | 4.240 | 4.237 | (0.973) | 864291 | 1000.00 | 1127.87(A) | |
| * | 55 Fluorobenzene | 96 | 4.356 | 4.356 | (1.000) | 900183 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.371 | 4.374 | (1.003) | 2911332 | 200.000 | 200.120(A) | |
| | 57 Trichloroethene | 95 | 4.457 | 4.458 | (1.023) | 1782274 | 200.000 | 212.309(A) | |
| | 58 Methyl cyclohexane | 83 | 4.472 | 4.475 | (0.703) | 2423839 | 200.000 | 211.467(A) | |
| | 59 tert-Amyl Ethylether | 59 | 4.562 | 4.562 | (1.047) | 3663394 | 200.000 | 221.121(A) | |
| | 60 Dibromomethane | 93 | 4.712 | 4.712 | (1.082) | 1199052 | 200.000 | 222.123(A) | |
| | 61 1,2-Dichloropropane | 63 | 4.770 | 4.773 | (1.095) | 1332879 | 200.000 | 223.043(A) | |
| | 62 Bromodichloromethane | 83 | 4.793 | 4.793 | (1.100) | 2563392 | 200.000 | 222.705(A) | |
| | 63 Methyl methacrylate | 41 | 4.851 | 4.851 | (1.114) | 1438473 | 200.000 | 200.790(A) | |
| | 64 1,4-Dioxane | 88 | 4.906 | 4.906 | (1.126) | 656907 | 5000.00 | 5640.81(A) | |
| | 65 2-Chloroethylvinyl ether | 63 | 5.118 | 5.118 | (1.175) | 960807 | 200.000 | 186.407 | |
| | 66 cis-1,3-Dichloropropene | 75 | 5.181 | 5.181 | (0.814) | 2843164 | 200.000 | 200.566(A) | |
| | 67 Octane | 85 | 5.196 | 5.196 | (0.816) | 968753 | 200.000 | 216.126(A) | |
| $ | 68 Toluene-d8 | 98 | 5.309 | 5.309 | (0.834) | 949064 | 30.0000 | 29.6346 | |
| | 69 Toluene | 92 | 5.343 | 5.344 | (0.839) | 4162262 | 200.000 | 211.712(A) | |
| | 70 Chloroacetonitrile | 75 | 5.381 | 5.378 | (0.845) | 627456 | 1000.00 | 1011.84(A) | |
| | 71 2-Nitropropane | 41 | 5.477 | 5.474 | (0.860) | 3365902 | 1000.00 | 999.946(A) | |
| | 72 1,1-Dichloro-2-Propanone | 63 | 5.497 | 5.497 | (0.864) | 298690 | 1000.00 | 1078.20(AQ) | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.558 | 5.555 | (0.873) | 7189338 | 1000.00 | 994.914(A) | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.595 | 5.593 | (0.879) | 2913743 | 200.000 | 199.419 | |
| | 74 Tetrachloroethene | 164 | 5.607 | 5.607 | (0.881) | 1777923 | 200.000 | 208.025(A) | |
| | 76 Ethyl Methacrylate | 69 | 5.668 | 5.665 | (0.890) | 2405464 | 200.000 | 200.407(A) | |

Data File: 2324062509.D Page 3
Report Date: 27-Jun-2024 16:16

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 1,1,2-Trichloroethane | 83 | 5.708 | 5.705 | (0.897) | 1259278 | 200.000 | 215.854(A) | |
| 78 | Chlorodibromomethane | 129 | 5.841 | 5.842 | (0.918) | 2395175 | 200.000 | 201.197(A) | |
| 79 | 1,3-Dichloropropane | 76 | 5.899 | 5.899 | (0.927) | 2692239 | 200.000 | 219.983(A) | |
| 80 | 1,2-Dibromoethane | 107 | 6.021 | 6.021 | (0.946) | 1889641 | 200.000 | 221.249(A) | |
| 81 | 2-Hexanone | 43 | 6.119 | 6.117 | (0.961) | 5340055 | 1000.00 | 1001.09(A) | |
| 82 | 1-Chlorohexane | 91 | 6.336 | 6.337 | (0.995) | 2221207 | 200.000 | 216.423(A) | |
| * 83 | Chlorobenzene-d5 | 82 | 6.365 | 6.366 | (1.000) | 401789 | 30.0000 | (M) | MP |
| 84 | Chlorobenzene | 112 | 6.380 | 6.380 | (1.002) | 4871692 | 200.000 | 215.726(A) | |
| 85 | Ethylbenzene | 106 | 6.383 | 6.383 | (1.003) | 2548105 | 200.000 | 214.134(A) | |
| 86 | 1,1,1,2-Tetrachloroethane | 131 | 6.415 | 6.415 | (1.008) | 2054190 | 200.000 | 221.739(A) | |
| 87 | mp-Xylene | 106 | 6.484 | 6.484 | (1.019) | 6205969 | 400.000 | 431.358(A) | |
| 88 | o-Xylene | 106 | 6.803 | 6.803 | (1.069) | 3149109 | 200.000 | 222.671(A) | |
| 89 | Styrene | 104 | 6.837 | 6.838 | (0.839) | 5251559 | 200.000 | 198.121 | |
| 90 | Bromoform | 173 | 6.872 | 6.872 | (0.844) | 1872007 | 200.000 | 199.584 | |
| 91 | Isopropylbenzene | 105 | 7.034 | 7.031 | (0.864) | 7380210 | 200.000 | 196.306 | |
| M 100 | 1,2-Dichloroethene, Total | 61 | | | | 4079438 | 400.000 | 433.616 | |
| $ 92 | 4-Bromofluorobenzene | 174 | 7.257 | 7.260 | (0.891) | 406157 | 30.0000 | 29.7273 | |
| 93 | Bromobenzene | 156 | 7.353 | 7.350 | (0.903) | 2414683 | 200.000 | 205.830(A) | |
| 94 | n-Propylbenzene | 120 | 7.350 | 7.350 | (0.902) | 2284952 | 200.000 | 205.695(A) | |
| 95 | 1,1,2,2-Tetrachloroethane | 83 | 7.387 | 7.388 | (0.907) | 2096158 | 200.000 | 216.061(A) | |
| 96 | o-Chlorotoluene | 91 | 7.486 | 7.486 | (0.919) | 6322148 | 200.000 | 208.679(A) | |
| 97 | 1,3,5-Trimethylbenzene | 105 | 7.497 | 7.495 | (0.920) | 6787714 | 200.000 | 207.249(A) | |
| 98 | 1,2,3-Trichloropropane | 110 | 7.509 | 7.509 | (0.922) | 876988 | 200.000 | 213.100(A) | |
| 99 | trans-1,4-Dichloro-2-butene | 53 | 7.529 | 7.529 | (0.924) | 770313 | 200.000 | 199.144(M) | MP |
| 101 | p-Chlorotoluene | 91 | 7.616 | 7.613 | (0.935) | 5870396 | 200.000 | 209.571(A) | |
| 102 | tert-Butylbenzene | 134 | 7.758 | 7.758 | (0.952) | 1711818 | 200.000 | 208.734(A) | |
| 103 | Pentachloroethane | 117 | 7.781 | 7.778 | (0.955) | 1527981 | 200.000 | 196.870(M) | MP |
| 104 | 1,2,4-Trimethylbenzene | 105 | 7.810 | 7.807 | (0.959) | 6873804 | 200.000 | 206.647(A) | |
| 105 | sec-Butylbenzene | 105 | 7.900 | 7.900 | (0.970) | 7960943 | 200.000 | 204.142(A) | |
| 106 | p-Isopropyltoluene | 134 | 8.010 | 8.007 | (0.983) | 1989960 | 200.000 | 211.259(A) | |
| 107 | 1,3-Dichlorobenzene | 146 | 8.091 | 8.088 | (0.993) | 4300215 | 200.000 | 208.031(A) | |
| * 108 | 1,4-Dichlorobenzene-d4 | 152 | 8.146 | 8.143 | (1.000) | 472273 | 30.0000 | (Q) | |
| 109 | 1,4-Dichlorobenzene | 146 | 8.158 | 8.158 | (1.001) | 4322166 | 200.000 | 203.977(A) | |
| 110 | Benzyl Chloride | 126 | 8.352 | 8.349 | (1.025) | 1036652 | 200.000 | 200.928(AQ) | |
| 111 | n-Butylbenzene | 134 | 8.357 | 8.355 | (1.026) | 1784364 | 200.000 | 204.683(A) | |
| 112 | Hexachloroethane | 117 | 8.496 | 8.497 | (1.043) | 1477423 | 200.000 | 198.455 | |
| 113 | 1,2-Dichlorobenzene | 146 | 8.508 | 8.505 | (1.044) | 4168615 | 200.000 | 207.736(A) | |
| 114 | 1,2-Dibromo-3-chloropropane | 75 | 9.171 | 9.171 | (1.126) | 605738 | 200.000 | 226.357(A) | |
| 115 | Nitrobenzene | 77 | 9.643 | 9.643 | (1.184) | 2644208 | 2000.00 | 1999.38(A) | |
| 116 | Hexachlorobutadiene | 225 | 9.721 | 9.718 | (1.193) | 1272827 | 200.000 | 184.391 | |
| M 120 | 1,3-Dichloropropene, Total | 75 | | | | 5756907 | 400.000 | 399.985 | |
| 117 | 1,2,4-Trichlorobenzene | 180 | 9.747 | 9.747 | (1.197) | 2855900 | 200.000 | 205.689(A) | |
| M 121 | Total Xylenes | 106 | | | | 9355078 | 600.000 | 654.028 | |
| 118 | Naphthalene | 128 | 10.014 | 10.014 | (1.229) | 7683598 | 200.000 | 196.663 | |
| 119 | 1,2,3-Trichlorobenzene | 180 | 10.167 | 10.167 | (1.248) | 2925284 | 200.000 | 212.914(A) | |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

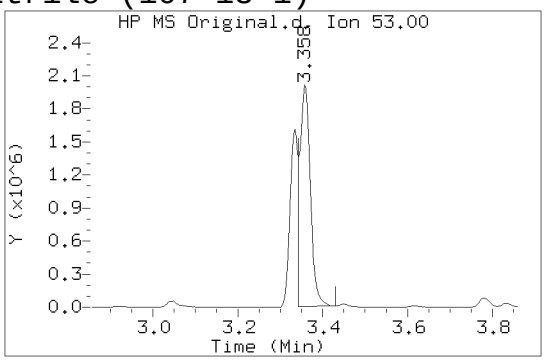

Y (x10^7)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane+
-Ethyl Ether
-1,1-Dichloroethene+
-Iodomethane
-Acrolein
-Isopropyl Alcohol+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Methyl acrylate+
-1,1-Dichloropropene+
-Heptane
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8+
-2-Nitropropane+
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
Chlorobenzene+
mp-Xylene
-1,2-Dichloroethene, Total
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
Bromobenzene+
-p-Chlorotoluene
o-Chlorotoluene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Total Xylenes
-Nitrobenzene
-Naphthalene
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Date : 25-JUN-2024 13:39
Client ID:
Sample Info: 1239;;1;1;6;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms23,i
Operator: ILY
Column diameter: 0.25
Page 1

Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062509.D
Inj Date : 25-JUN-2024 13:39
InstruID : ms23.i
LabSampID : 1239

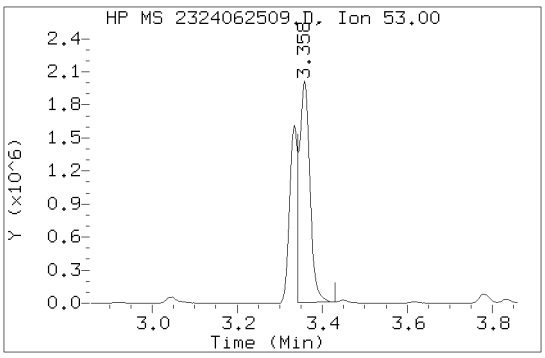
## Acrylonitrile (107-13-1)

Reason Code: MP

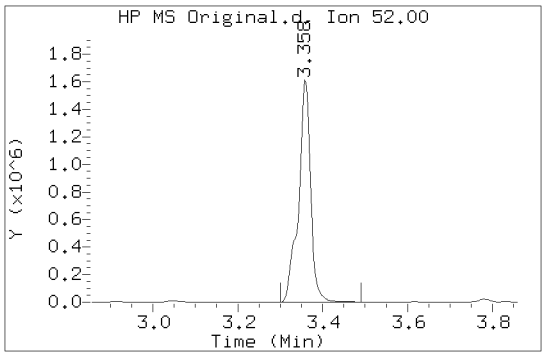
**BEFORE**
MASS
53
AREA
3423071
HEIGHT
2011550
25-Jun-2024
19:41



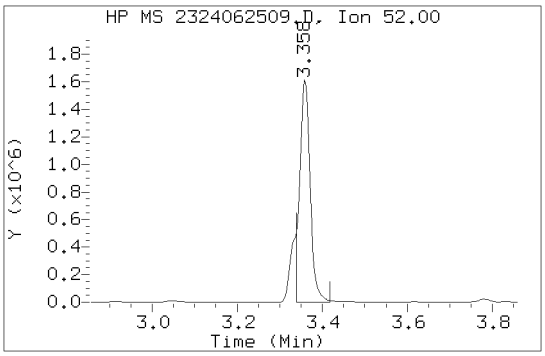

**AFTER**
MASS
53
AREA
3423071
HEIGHT
2011550
27-Jun-2024
16:16



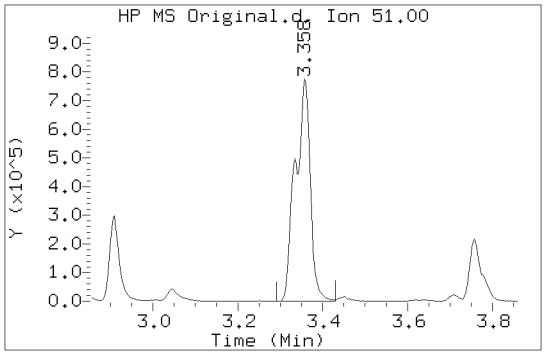

**BEFORE**
MASS
52
AREA
3168455
HEIGHT
1612509
25-Jun-2024
19:41



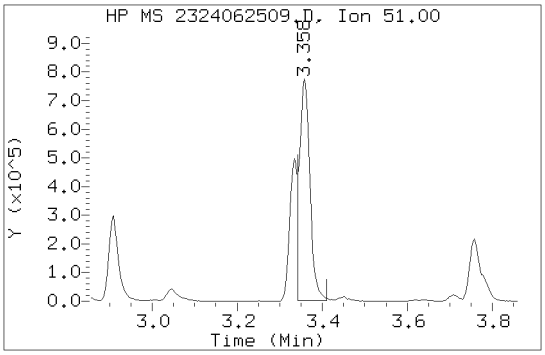

**AFTER**
MASS
52
AREA
2676139
HEIGHT
1612067
27-Jun-2024
16:16




**BEFORE**
MASS
51
AREA
1883513
HEIGHT
775577
25-Jun-2024
19:41



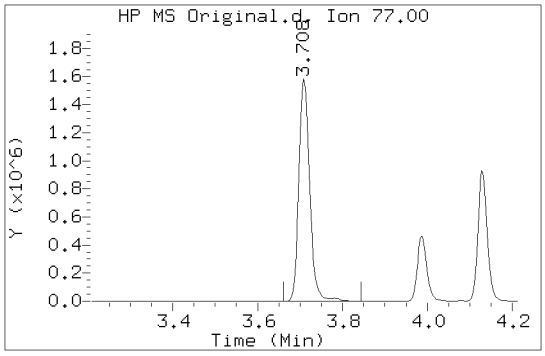

**AFTER**
MASS
51
AREA
1288875
HEIGHT
774310
27-Jun-2024
16:16



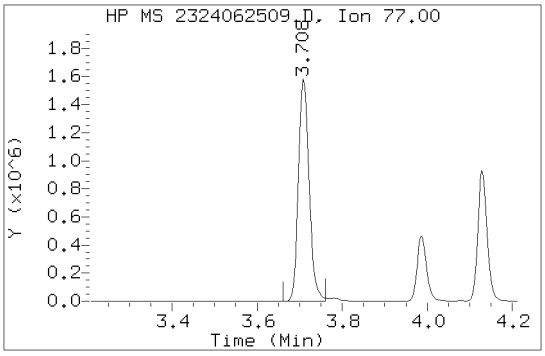

## 2,2-Dichloropropane (594-20-7)

Reason Code: MP

**BEFORE**
MASS
77
AREA
2785229
HEIGHT
1583104
25-Jun-2024
19:41




**AFTER**
MASS
77
AREA
2742036
HEIGHT
1583104
27-Jun-2024
16:16

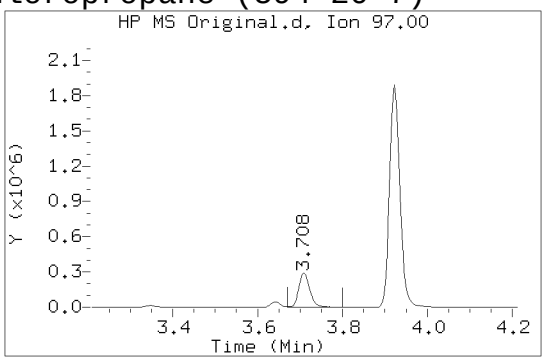


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Inj Date : 25-JUN-2024 13:39
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LabSampID : 1239

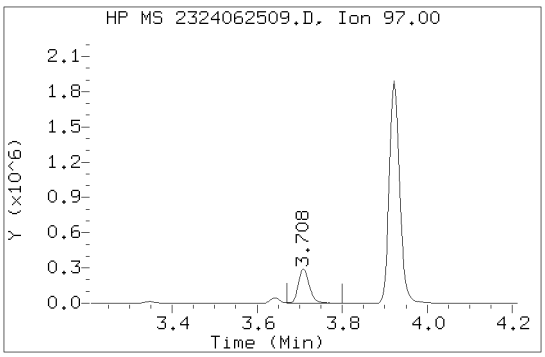
## 2,2-Dichloropropane (594-20-7)

Reason Code: MP

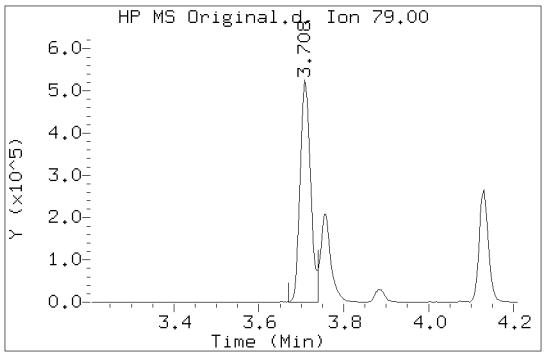
BEFORE
MASS
97
AREA
515131
HEIGHT
291776
25-Jun-2024
19:41



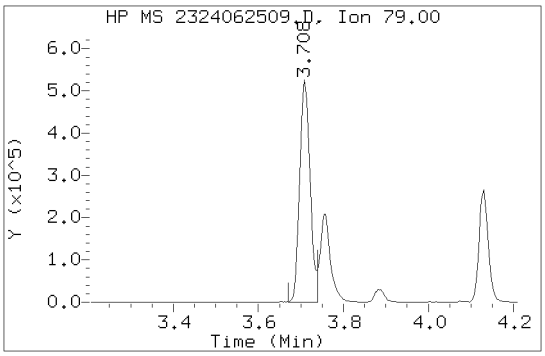

AFTER
MASS
97
AREA
515131
HEIGHT
291776
27-Jun-2024
16:16




BEFORE
MASS
79
AREA
888351
HEIGHT
525183
25-Jun-2024
19:41



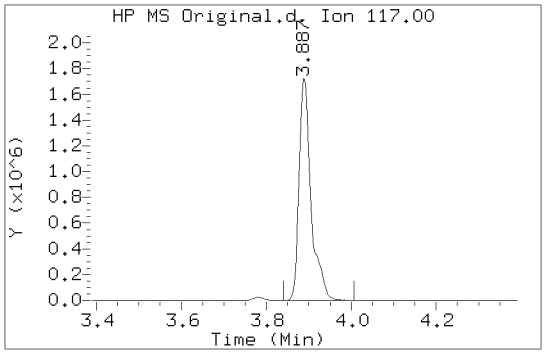

AFTER
MASS
79
AREA
888351
HEIGHT
525183
27-Jun-2024
16:16



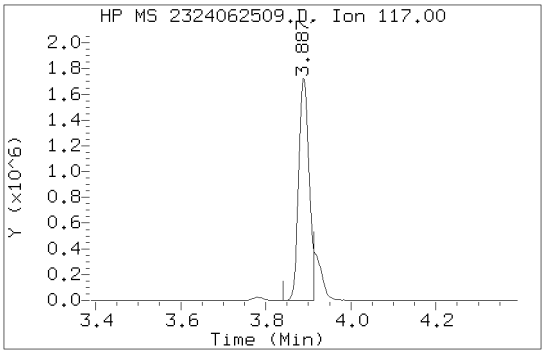

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

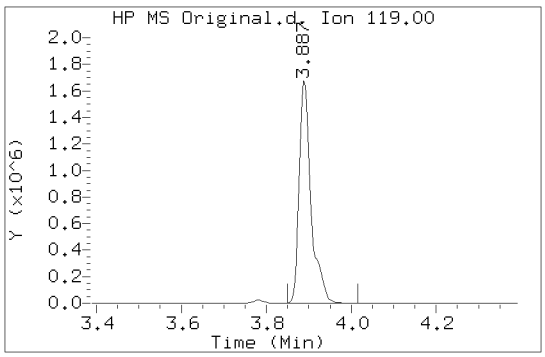
BEFORE
MASS
117
AREA
3339892
HEIGHT
1721344
25-Jun-2024
19:41



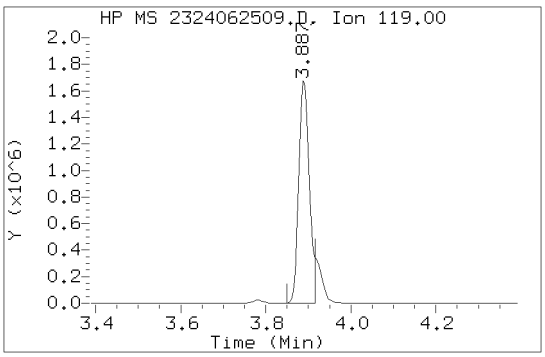

AFTER
MASS
117
AREA
2915544
HEIGHT
1721344
27-Jun-2024
16:16




BEFORE
MASS
119
AREA
3224570
HEIGHT
1675040
25-Jun-2024
19:41




AFTER
MASS
119
AREA
2877867
HEIGHT
1675040
27-Jun-2024
16:16



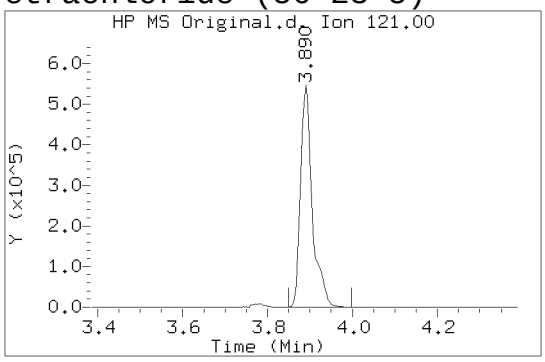
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Inj Date : 25-JUN-2024 13:39
InstruID : ms23.i
LabSampID : 1239

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

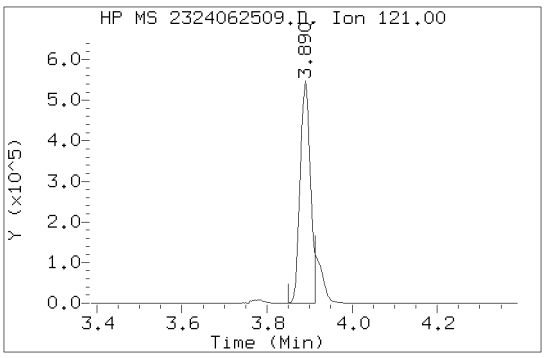
**BEFORE**

MASS
121
AREA
1040930
HEIGHT
547520
25-Jun-2024
19:41




**AFTER**

MASS
121
AREA
909559
HEIGHT
547520
27-Jun-2024
16:16

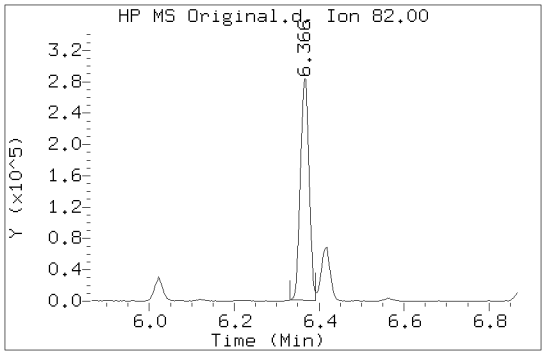



## Chlorobenzene-d5 (3114-55-4)

Reason Code: MP

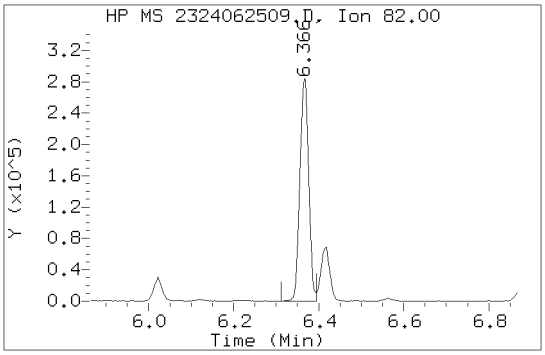
**BEFORE**

MASS
82
AREA
394411
HEIGHT
282367
25-Jun-2024
19:41



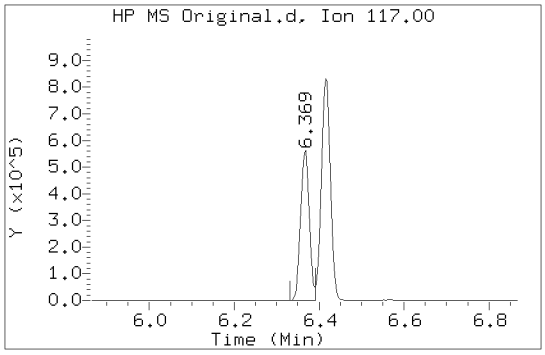

**AFTER**

MASS
82
AREA
401789
HEIGHT
283648
27-Jun-2024
16:16



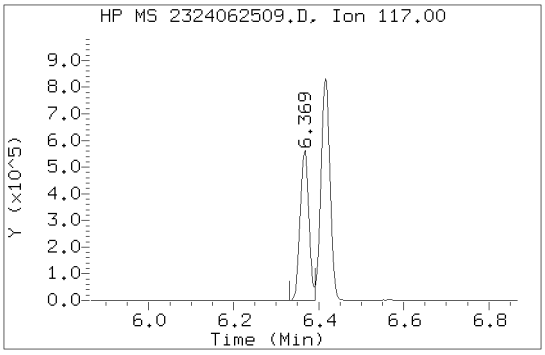

**BEFORE**

MASS
117
AREA
789716
HEIGHT
563395
25-Jun-2024
19:41



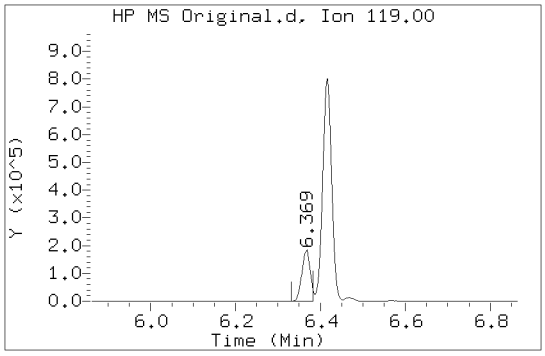

**AFTER**

MASS
117
AREA
789716
HEIGHT
563395
27-Jun-2024
16:16



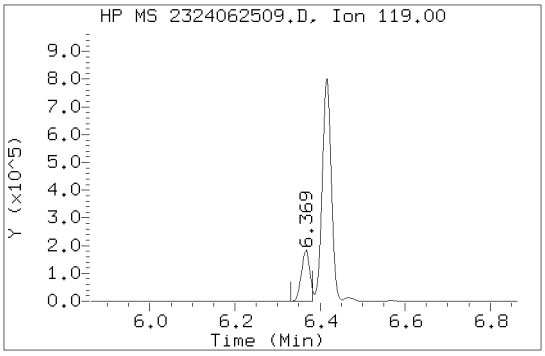

**BEFORE**

MASS
119
AREA
245694
HEIGHT
184384
25-Jun-2024
19:41




**AFTER**

MASS
119
AREA
245694
HEIGHT
184384
27-Jun-2024
16:16

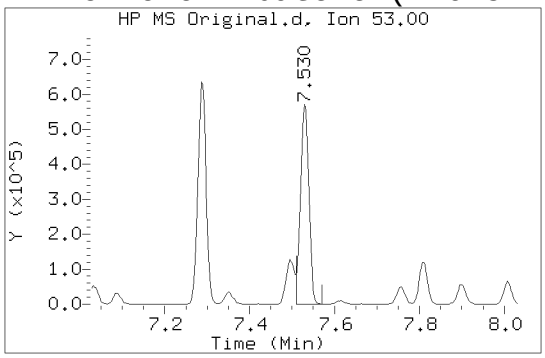


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LabSampID : 1239

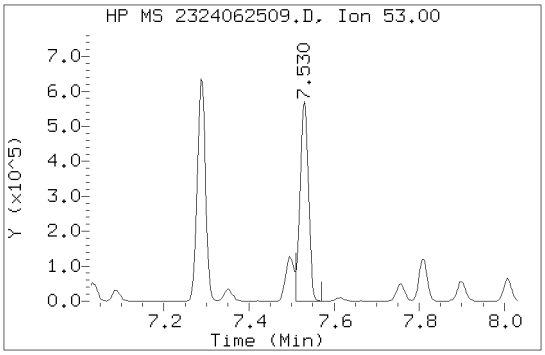
## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

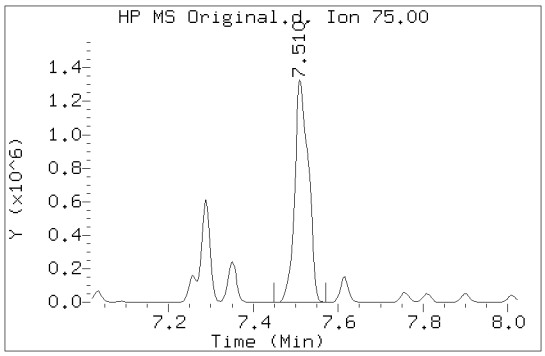
BEFORE
MASS
53
AREA
770313
HEIGHT
572106
25-Jun-2024
19:41



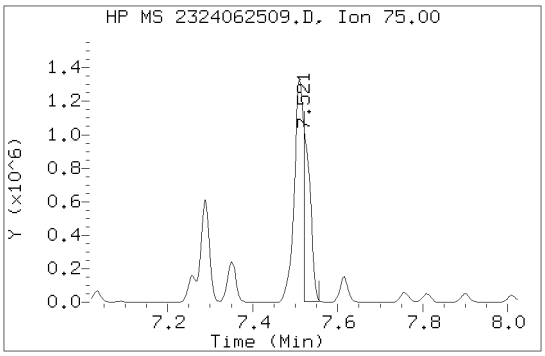

AFTER
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AREA
770313
HEIGHT
572106
27-Jun-2024
16:16



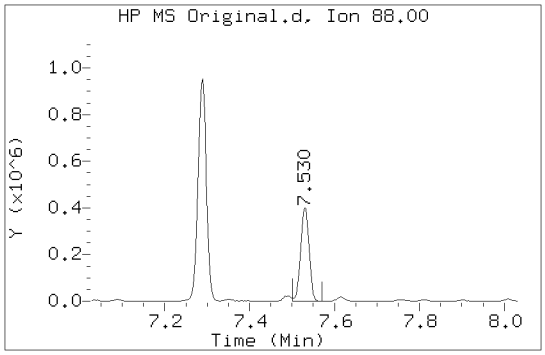

BEFORE
MASS
75
AREA
2976507
HEIGHT
1327385
25-Jun-2024
19:41



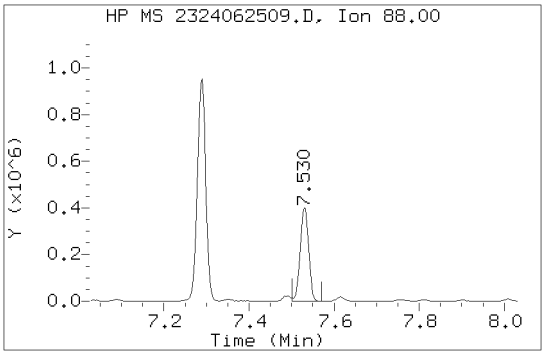

AFTER
MASS
75
AREA
1092435
HEIGHT
1023622
27-Jun-2024
16:16




BEFORE
MASS
88
AREA
538937
HEIGHT
398476
25-Jun-2024
19:41



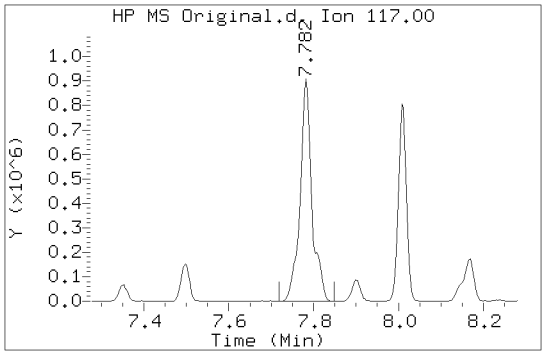

AFTER
MASS
88
AREA
538937
HEIGHT
398476
27-Jun-2024
16:16



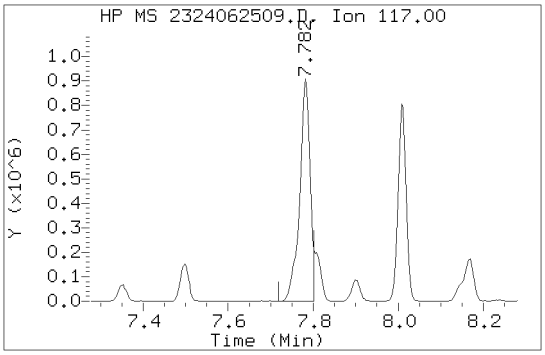

## Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
MASS
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AREA
1725161
HEIGHT
908329
25-Jun-2024
19:41




AFTER
MASS
117
AREA
1527981
HEIGHT
908329
27-Jun-2024
16:16



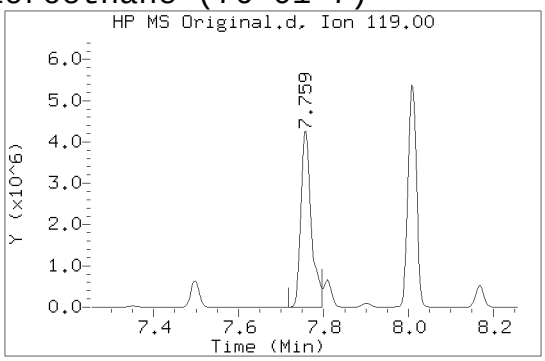
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Inj Date : 25-JUN-2024 13:39
InstruID : ms23.i
LabSampID : 1239

## Pentachloroethane (76-01-7)

Reason Code: MP

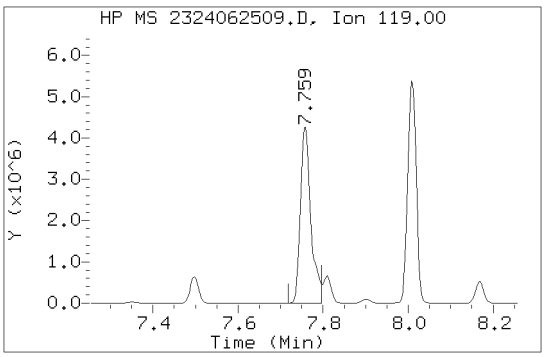
BEFORE

MASS
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AREA
7216423
HEIGHT
4261536
25-Jun-2024
19:41



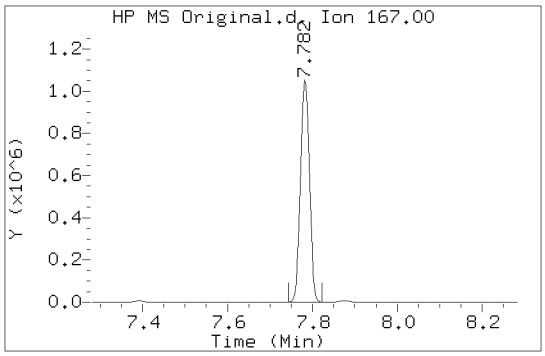

AFTER

MASS
119
AREA
7216423
HEIGHT
4261536
27-Jun-2024
16:16



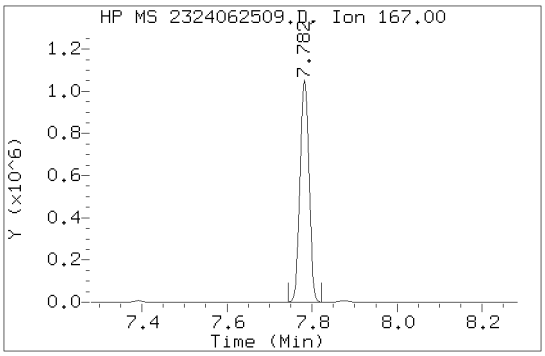

BEFORE

MASS
167
AREA
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HEIGHT
1053350
25-Jun-2024
19:41




AFTER

MASS
167
AREA
1530674
HEIGHT
1053350
27-Jun-2024
16:16



# UNASSIGNED PEAK REPORT

Report Date: 06/27/2024 16:16
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240625.b/232406250
Inj Date: 25-JUN-2024 13:39
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062515ICVQ.D Page 1
Report Date: 27-Jun-2024 16:18

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062515ICV
Lab Smp Id: ICVQ
Inj Date : 25-JUN-2024 15:39
Operator : ILY Inst ID: ms23.i
Smp Info : ICVQ;;1;3;;ICVQ;1;
Misc Info :
Comment :
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Meth Date : 25-Jun-2024 20:25 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 15 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.628 | 1.632 | (0.374) | 266351 | 19.9511 | 19.9511 | |
| 2 Chloromethane | 50 | 1.785 | 1.785 | (0.410) | 149450 | 18.3230 | 18.3230 | |
| 3 Vinyl Chloride | 62 | 1.848 | 1.849 | (0.425) | 159738 | 19.8806 | 19.8806 | |
| 4 Bromomethane | 94 | 2.068 | 2.072 | (0.475) | 106467 | 17.5201 | 17.5201 | |
| 5 Chloroethane | 64 | 2.135 | 2.144 | (0.491) | 89810 | 20.3137 | 20.3137 | |
| 6 Pentane | 41 | 2.234 | 2.245 | (0.513) | 92269 | 17.0693 | 17.0693 | |
| 7 Trichlorofluoromethane | 101 | 2.239 | 2.248 | (0.514) | 330165 | 19.3009 | 19.3009 | |
| 8 Dichlorofluoromethane | 67 | 2.271 | 2.277 | (0.522) | 316856 | 21.9426 | 21.9426 | |
| 9 Ethyl Ether | 74 | 2.442 | 2.442 | (0.561) | 101412 | 22.4946 | 22.4946 | |
| 10 1,1-Dichloroethene | 61 | 2.575 | 2.578 | (0.592) | 224546 | 22.0189 | 22.0189 | |
| 12 Carbon Disulfide | 76 | 2.616 | 2.619 | (0.601) | 420176 | 21.2417 | 21.2417 | |
| 11 Freon 113 | 101 | 2.590 | 2.590 | (0.595) | 150507 | 21.6967 | 21.6967 | |
| 13 Iodomethane | 127 | 2.674 | 2.677 | (0.614) | 64550 | 16.9223 | 16.9223 | |
| 14 Acrolein | 56 | 2.760 | 2.761 | (0.634) | 216461 | 168.809 | 168.809 | |
| 16 3-Chloro-1-propene | 41 | 2.847 | 2.851 | (0.654) | 166689 | 21.5237 | 21.5237 | |
| 15 Isopropyl Alcohol | 45 | 2.830 | 2.825 | (0.650) | 54057 | 100.965 | 100.965 | |
| 17 Methylene Chloride | 84 | 2.905 | 2.911 | (0.667) | 166554 | 22.5379 | 22.5379 | |
| 18 Acetone | 58 | 2.923 | 2.920 | (0.671) | 79254 | 116.338 | 116.338 | |
| 19 Methyl acetate | 74 | 2.981 | 2.984 | (0.685) | 35372 | 20.6250 | 20.6250 | |
| 20 trans-1,2-Dichloroethene | 61 | 3.004 | 3.004 | (0.690) | 200711 | 21.4680 | 21.4680 | |
| 21 Hexane | 57 | 3.044 | 3.045 | (0.699) | 269931 | 19.4681 | 19.4681 | |

Data File: 2324062515ICVQ.D
Report Date: 27-Jun-2024 16:18



| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | 3.047 | 3.050 | (0.700) | 574625 | 23.0257 | 23.0257 | |
| | 23 tert.- Butyl Alcohol | 59 | 3.073 | 3.068 | (0.706) | 114289 | 109.933 | 109.933 | |
| | 24 Acetonitrile | 41 | 3.183 | 3.184 | (0.731) | 88319 | 112.567 | 112.567 | |
| | 25 Diisopropyl ether | 45 | 3.244 | 3.247 | (0.745) | 387644 | 22.4562 | 22.4562 | |
| | 26 Chloroprene | 53 | 3.334 | 3.334 | (0.766) | 191203 | 16.0604 | 16.0604 | |
| | 27 1,1-Dichloroethane | 63 | 3.342 | 3.346 | (0.768) | 265685 | 20.1319 | 20.1319 | |
| | 28 Acrylonitrile | 53 | 3.357 | 3.357 | (0.771) | 332532 | 97.2317 | 97.2317(M) | MP |
| | 30 n-Propanol | 41 | 3.447 | 3.447 | (0.792) | 93362 | 231.108 | 231.108 | |
| | 29 Ethyl tert-butyl ether | 59 | 3.450 | 3.450 | (0.792) | 525064 | 21.2168 | 21.2168 | |
| | 31 Vinyl acetate | 86 | 3.447 | 3.450 | (0.792) | 42463 | 19.3510 | 19.3510 | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.644 | 3.644 | (0.837) | 211734 | 21.8883 | 21.8883 | |
| | 33 2,2-Dichloropropane | 77 | 3.710 | 3.711 | (0.852) | 251918 | 19.7317 | 19.7317 | |
| M | 100 1,2-Dichloroethene, Total | 61 | | | | 412445 | 43.3563 | 43.3563 | |
| | 34 Bromochloromethane | 128 | 3.754 | 3.757 | (0.862) | 105048 | 22.4928 | 22.4928 | |
| | 35 Cyclohexane | 84 | 3.783 | 3.783 | (0.869) | 236258 | 21.7760 | 21.7760 | |
| | 36 Chloroform | 83 | 3.777 | 3.780 | (0.868) | 351683 | 21.6743 | 21.6743 | |
| | 37 Ethyl acetate | 43 | 3.817 | 3.815 | (0.877) | 155085 | 21.7472 | 21.7472 | |
| | 38 Methyl acrylate | 55 | 3.835 | 3.832 | (0.881) | 156121 | 20.7350 | 20.7350 | |
| | 39 Carbon Tetrachloride | 117 | 3.890 | 3.890 | (0.894) | 283282 | 19.3797 | 19.3797(M) | MP |
| | 40 Tetrahydrofuran | 42 | 3.884 | 3.881 | (0.892) | 209327 | 111.070 | 111.070 | |
| $ | 41 Dibromofluoromethane | 113 | 3.884 | 3.884 | (0.892) | 273805 | 30.6153 | 30.6153 | |
| | 42 1,1,1-Trichloroethane | 97 | 3.919 | 3.922 | (0.900) | 327426 | 22.0780 | 22.0780 | |
| | 43 2-Butanone | 72 | 3.939 | 3.936 | (0.905) | 115554 | 110.240 | 110.240 | |
| | 44 1,1-Dichloropropene | 75 | 3.988 | 3.988 | (0.916) | 226126 | 21.4202 | 21.4202 | |
| | 45 1-Chlorobutane | 41 | 4.008 | 4.006 | (0.921) | 143614 | 20.9430 | 20.9430 | |
| | 46 Heptane | 71 | 4.078 | 4.078 | (0.937) | 93988 | 19.2685 | 19.2685 | |
| | 48 Propionitrile | 54 | 4.110 | 4.110 | (0.944) | 121415 | 99.5082 | 99.5082 | |
| | 47 Benzene | 78 | 4.127 | 4.127 | (0.948) | 603469 | 21.7818 | 21.7818 | |
| | 49 Methacrylonitrile | 67 | 4.130 | 4.127 | (0.949) | 76067 | 22.4834 | 22.4834 | |
| | 50 tert-amyl methyl Ether | 73 | 4.162 | 4.162 | (0.956) | 533911 | 21.3338 | 21.3338 | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.197 | 4.197 | (0.964) | 343875 | 30.0347 | 30.0347(M) | MP |
| | 54 Isobutyl alcohol | 42 | 4.165 | 4.165 | (0.957) | 34338 | 172.443 | 172.443(QM) | I |
| | 52 1,2-Dichloroethane | 62 | 4.234 | 4.235 | (0.973) | 286958 | 21.9522 | 21.9522 | |
| | 53 tert-Amyl Alcohol | 59 | 4.243 | 4.237 | (0.975) | 82060 | 105.921 | 105.921 | |
| * | 55 Fluorobenzene | 96 | 4.353 | 4.356 | (1.000) | 910084 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.370 | 4.374 | (1.004) | 311093 | 19.6171 | 19.6171 | |
| | 57 Trichloroethene | 95 | 4.460 | 4.458 | (1.025) | 177744 | 20.9430 | 20.9430 | |
| | 58 Methyl cyclohexane | 83 | 4.475 | 4.475 | (0.703) | 247796 | 21.6072 | 21.6072 | |
| | 59 tert-Amyl Ethylether | 59 | 4.561 | 4.562 | (1.048) | 360559 | 21.5264 | 21.5264 | |
| | 60 Dibromomethane | 93 | 4.715 | 4.712 | (1.083) | 121145 | 22.1978 | 22.1978 | |
| | 61 1,2-Dichloropropane | 63 | 4.773 | 4.773 | (1.096) | 136097 | 22.5267 | 22.5267 | |
| | 62 Bromodichloromethane | 83 | 4.796 | 4.793 | (1.102) | 265568 | 22.8213 | 22.8213 | |
| | 63 Methyl methacrylate | 41 | 4.854 | 4.851 | (1.115) | 144052 | 20.1084 | 20.1084 | |
| | 65 2-Chloroethylvinyl ether | 63 | 5.117 | 5.118 | (1.176) | 43906 | 16.0053 | 16.0053 | |
| | 66 cis-1,3-Dichloropropene | 75 | 5.181 | 5.181 | (0.814) | 282169 | 20.1588 | 20.1588 | |
| | 67 Octane | 85 | 5.195 | 5.196 | (0.816) | 89141 | 19.8764 | 19.8764 | |
| $ | 68 Toluene-d8 | 98 | 5.308 | 5.309 | (0.834) | 992584 | 30.9768 | 30.9768 | |
| | 69 Toluene | 92 | 5.340 | 5.344 | (0.839) | 421160 | 21.4106 | 21.4106 | |
| | 70 Chloroacetonitrile | 75 | 5.378 | 5.378 | (0.845) | 59591 | 97.9305 | 97.9305 | |
| | 71 2-Nitropropane | 41 | 5.473 | 5.474 | (0.860) | 321413 | 96.8655 | 96.8655 | |
| | 72 1,1-Dichloro-2-propanone | 63 | 5.499 | 5.497 | (0.864) | 30289 | 109.277 | 109.277(Q) | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.554 | 5.555 | (0.873) | 757078 | 105.758 | 105.758 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.592 | 5.593 | (0.879) | 299332 | 20.6803 | 20.6803 | |
| | 74 Tetrachloroethene | 164 | 5.607 | 5.607 | (0.881) | 184335 | 21.5564 | 21.5564 | |

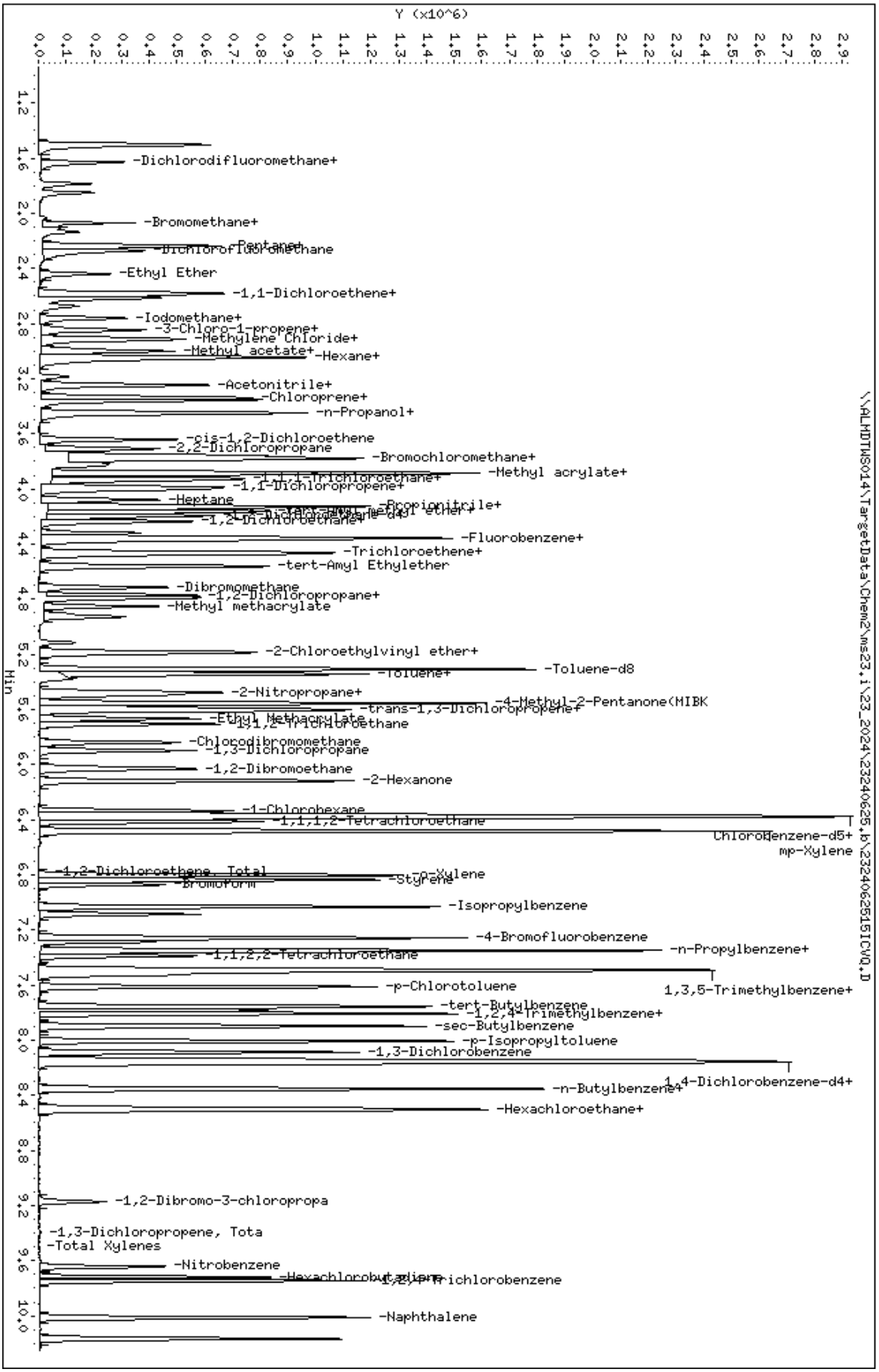
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Report Date: 27-Jun-2024 16:18



| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl methacrylate | 69 | 5.664 | 5.665 | (0.890) | 243642 | 20.5552 | 20.5552 | |
| | 77 1,1,2-Trichloroethane | 83 | 5.705 | 5.705 | (0.896) | 134209 | 22.9924 | 22.9924 | |
| | 78 Chlorodibromomethane | 129 | 5.838 | 5.842 | (0.917) | 233248 | 19.8218 | 19.8218 | |
| | 79 1,3-Dichloropropane | 76 | 5.899 | 5.899 | (0.927) | 276835 | 22.6080 | 22.6080 | |
| | 80 1,2-Dibromoethane | 107 | 6.018 | 6.021 | (0.945) | 192668 | 22.5464 | 22.5464 | |
| | 81 2-Hexanone | 43 | 6.119 | 6.117 | (0.961) | 536538 | 101.749 | 101.749 | |
| | 82 1-Chlorohexane | 91 | 6.336 | 6.337 | (0.995) | 224833 | 21.8947 | 21.8947 | |
| * | 83 Chlorobenzene-d5 | 82 | 6.365 | 6.366 | (1.000) | 402006 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | 6.380 | 6.383 | (1.002) | 262208 | 22.0231 | 22.0231 | |
| | 84 Chlorobenzene | 112 | 6.377 | 6.380 | (1.002) | 502266 | 22.2291 | 22.2291 | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | 6.414 | 6.415 | (1.008) | 211965 | 22.8682 | 22.8682 | |
| | 87 mp-Xylene | 106 | 6.484 | 6.484 | (1.019) | 636150 | 44.1929 | 44.1929 | |
| M | 120 1,3-Dichloropropene, Total | 75 | | | | 581501 | 40.8391 | 40.8391 | |
| | 88 o-Xylene | 106 | 6.799 | 6.803 | (1.068) | 318237 | 22.4901 | 22.4901 | |
| | 89 Styrene | 104 | 6.837 | 6.838 | (0.840) | 539274 | 21.6392 | 21.6392 | |
| | 90 Bromoform | 173 | 6.872 | 6.872 | (0.844) | 181627 | 20.6701 | 20.6701 | |
| | 91 Isopropylbenzene | 105 | 7.031 | 7.031 | (0.863) | 823058 | 23.1854 | 23.1854 | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.257 | 7.260 | (0.891) | 401837 | 31.0026 | 31.0026 | |
| M | 121 TOTAL XYLENES | 106 | | | | 954387 | 66.6830 | 66.6830 | |
| | 94 n-Propylbenzene | 120 | 7.350 | 7.350 | (0.903) | 222416 | 21.1057 | 21.1057 | |
| | 93 Bromobenzene | 156 | 7.350 | 7.350 | (0.903) | 246864 | 22.1816 | 22.1816 | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | 7.387 | 7.388 | (0.907) | 214871 | 23.3463 | 23.3463 | |
| | 97 1,3,5-Trimethylbenzene | 105 | 7.494 | 7.495 | (0.920) | 710138 | 22.8559 | 22.8559 | |
| | 96 o-Chlorotoluene | 91 | 7.486 | 7.486 | (0.919) | 648178 | 22.5525 | 22.5525 | |
| | 98 1,2,3-Trichloropropane | 110 | 7.509 | 7.509 | (0.922) | 89819 | 23.0062 | 23.0062 | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | 7.526 | 7.529 | (0.924) | 71387 | 19.7559 | 19.7559(Q) | |
| | 101 p-Chlorotoluene | 91 | 7.613 | 7.613 | (0.935) | 590118 | 22.2070 | 22.2070 | |
| | 102 tert-Butylbenzene | 134 | 7.758 | 7.758 | (0.953) | 175819 | 22.5990 | 22.5990 | |
| | 103 Pentachloroethane | 117 | 7.781 | 7.778 | (0.956) | 142487 | 19.5462 | 19.5462(QM) | MP |
| | 104 1,2,4-Trimethylbenzene | 105 | 7.807 | 7.807 | (0.959) | 712863 | 22.5905 | 22.5905 | |
| | 105 sec-Butylbenzene | 105 | 7.897 | 7.900 | (0.970) | 827873 | 22.3778 | 22.3778 | |
| | 106 p-Isopropyltoluene | 134 | 8.007 | 8.007 | (0.983) | 199898 | 22.3700 | 22.3700 | |
| | 107 1,3-Dichlorobenzene | 146 | 8.088 | 8.088 | (0.993) | 429538 | 21.9042 | 21.9042 | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 8.143 | 8.143 | (1.000) | 448029 | 30.0000 | | |
| | 109 1,4-Dichlorobenzene | 146 | 8.157 | 8.158 | (1.002) | 442980 | 22.0369 | 22.0369 | |
| | 111 n-Butylbenzene | 134 | 8.354 | 8.355 | (1.026) | 177133 | 21.4183 | 21.4183(Q) | |
| | 110 Benzyl Chloride | 126 | 8.348 | 8.349 | (1.025) | 83806 | 17.4349 | 17.4349(Q) | |
| | 112 Hexachloroethane | 117 | 8.493 | 8.497 | (1.043) | 140322 | 20.0709 | 20.0709 | |
| | 113 1,2-Dichlorobenzene | 146 | 8.508 | 8.505 | (1.045) | 417851 | 21.9497 | 21.9497 | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | 9.171 | 9.171 | (1.126) | 53725 | 21.1628 | 21.1628 | |
| | 115 Nitrobenzene | 77 | 9.643 | 9.643 | (1.184) | 191247 | 187.387 | 187.387 | |
| | 116 Hexachlorobutadiene | 225 | 9.718 | 9.718 | (1.193) | 141218 | 21.5650 | 21.5650 | |
| | 117 1,2,4-Trichlorobenzene | 180 | 9.747 | 9.747 | (1.197) | 315751 | 23.9718 | 23.9718 | |
| | 118 Naphthalene | 128 | 10.013 | 10.014 | (1.230) | 796139 | 21.6751 | 21.6751 | |
| | 119 1,2,3-Trichlorobenzene | 180 | 10.167 | 10.167 | (1.249) | 291675 | 22.3781 | 22.3781 | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.




Data File: \\ALMDTMS014\TargetData\Chem2\ms23,i\23_2024\23240625,b\23240625I5ICVQ.D
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Instrument: ms23,i
Operator: ILY
Column diameter: 0.25

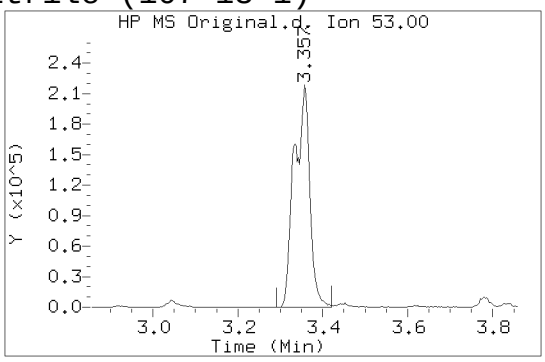
Page 1

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LabSampID : ICVQ

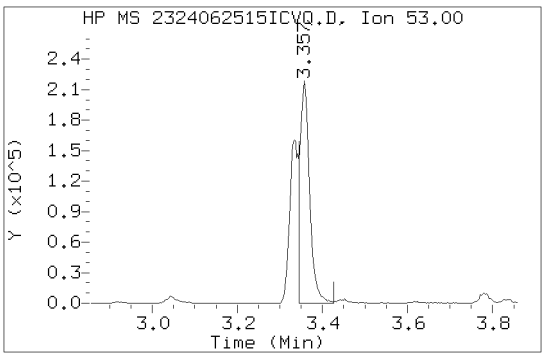
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Reason Code: MP

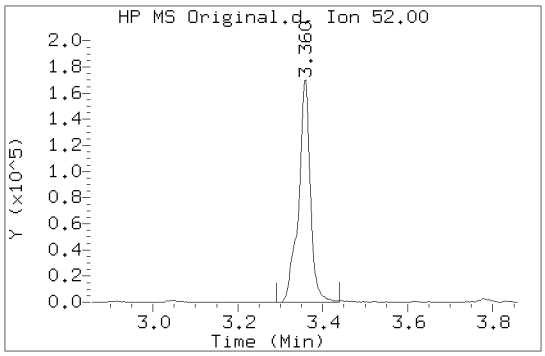
BEFORE
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53
AREA
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HEIGHT
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25-Jun-2024
20:13



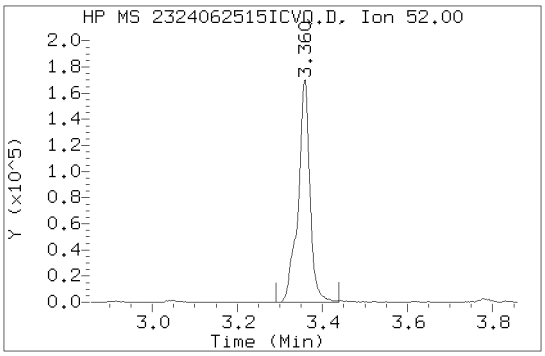

AFTER
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332532
HEIGHT
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27-Jun-2024
16:18



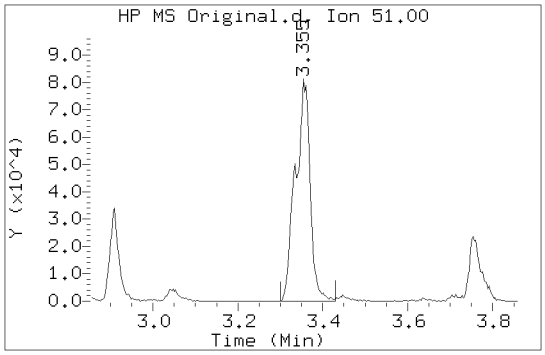

BEFORE
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25-Jun-2024
20:13



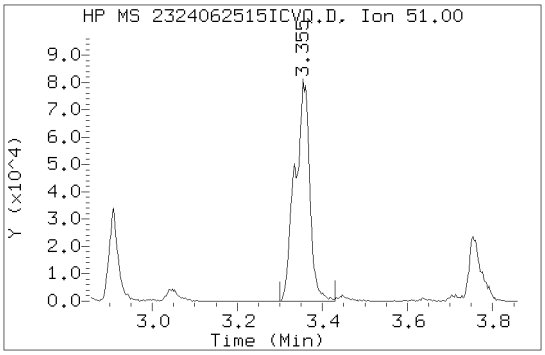

AFTER
MASS
52
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324204
HEIGHT
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27-Jun-2024
16:18




BEFORE
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25-Jun-2024
20:13



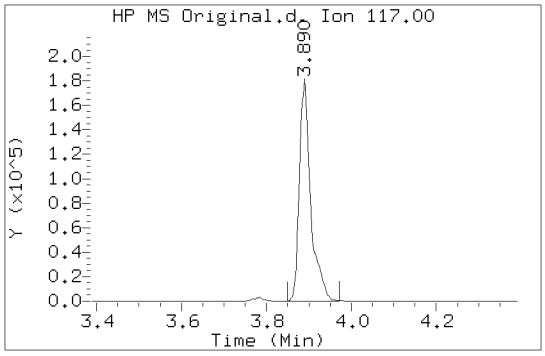

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27-Jun-2024
16:18



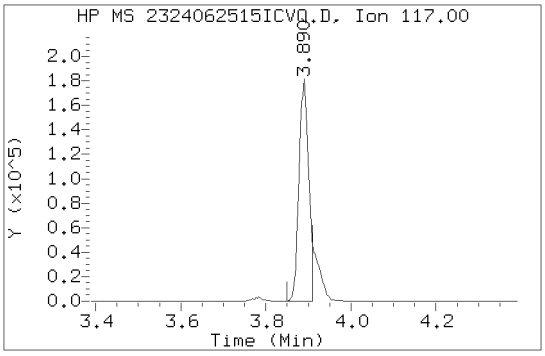

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

BEFORE
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117
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25-Jun-2024
20:13




AFTER
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27-Jun-2024
16:18

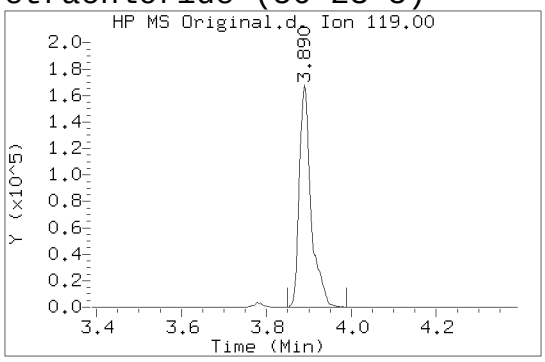


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LabSampID : ICVQ

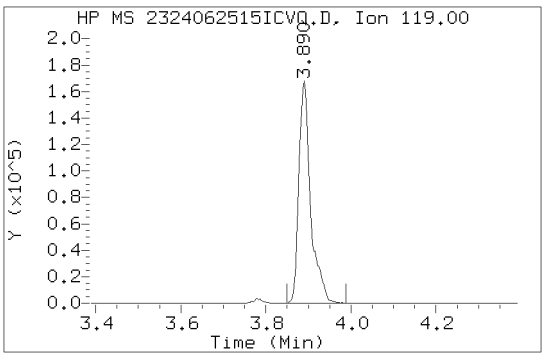
## Carbon Tetrachloride (56-23-5)

Reason Code: MP

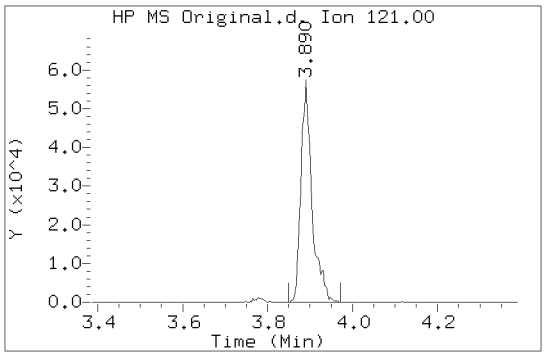
BEFORE
MASS
119
AREA
319388
HEIGHT
168064
25-Jun-2024
20:13



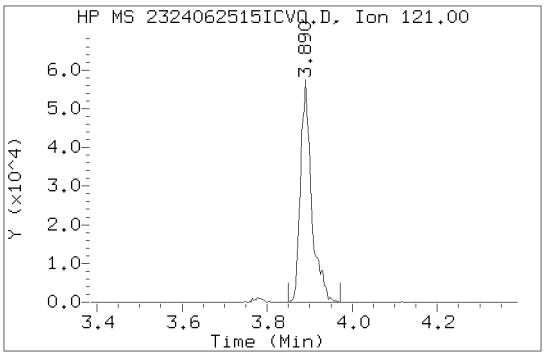

AFTER
MASS
119
AREA
319388
HEIGHT
168064
27-Jun-2024
16:18




BEFORE
MASS
121
AREA
102381
HEIGHT
57424
25-Jun-2024
20:13



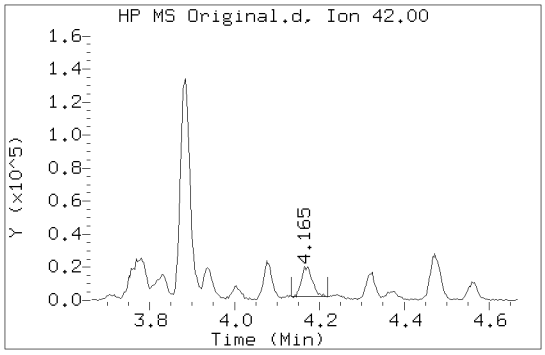

AFTER
MASS
121
AREA
102381
HEIGHT
57424
27-Jun-2024
16:18



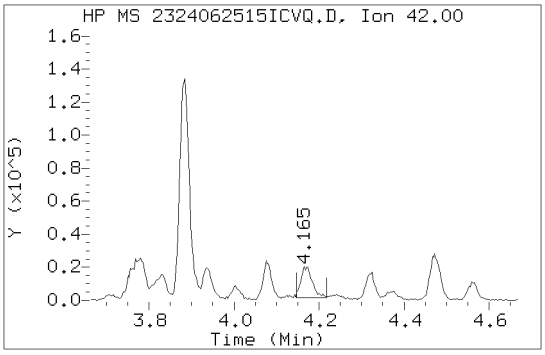

## Isobutyl alcohol (78-83-1)

Reason Code: I

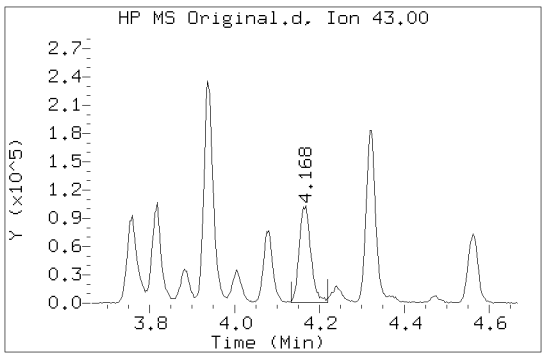
BEFORE
MASS
42
AREA
31798
HEIGHT
18415
25-Jun-2024
20:13



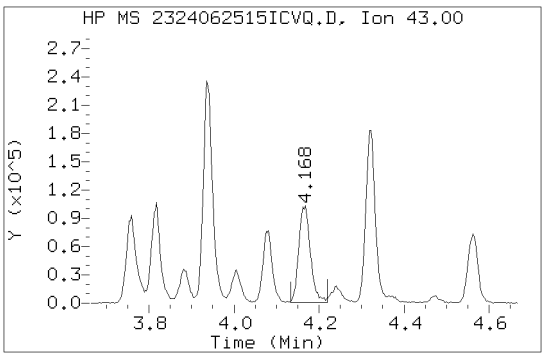

AFTER
MASS
42
AREA
34338
HEIGHT
19007
27-Jun-2024
16:18




BEFORE
MASS
43
AREA
194524
HEIGHT
103240
25-Jun-2024
20:13




AFTER
MASS
43
AREA
194524
HEIGHT
103240
27-Jun-2024
16:18

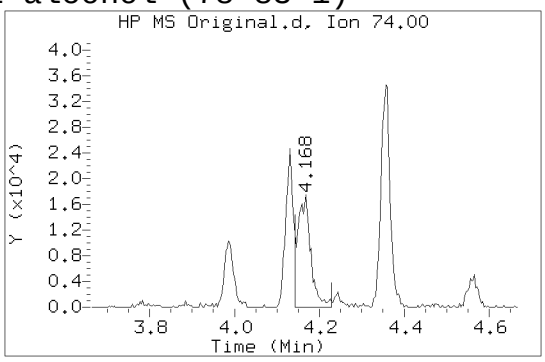


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Inj Date : 25-JUN-2024 15:39
InstruID : ms23.i
LabSampID : ICVQ

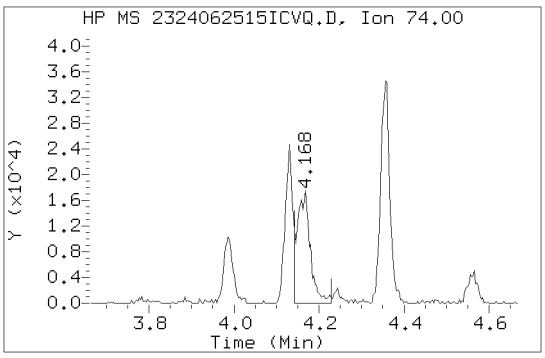
## Isobutyl alcohol (78-83-1)

Reason Code: I

BEFORE
MASS
74
AREA
37376
HEIGHT
17504
25-Jun-2024
20:13



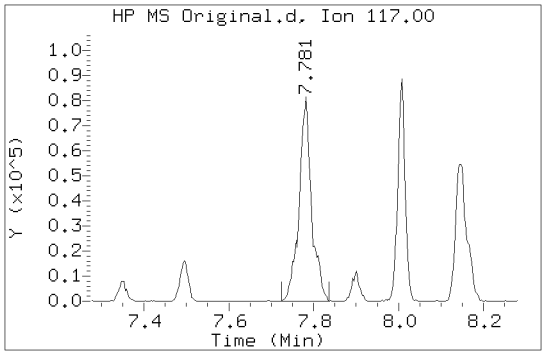

AFTER
MASS
74
AREA
37376
HEIGHT
17504
27-Jun-2024
16:18



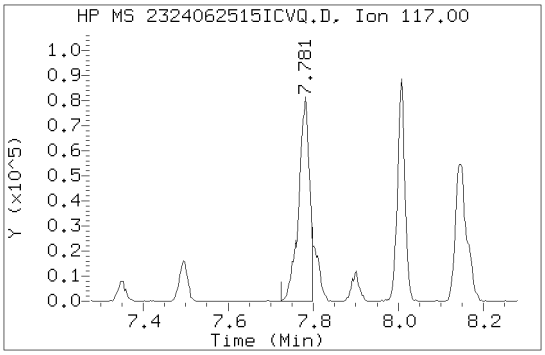

## Pentachloroethane (76-01-7)

Reason Code: MP

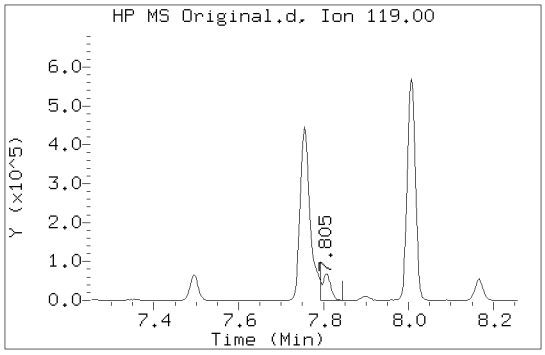
BEFORE
MASS
117
AREA
163934
HEIGHT
81616
25-Jun-2024
20:13



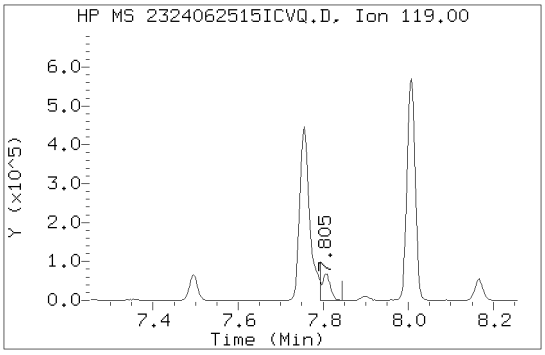

AFTER
MASS
117
AREA
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HEIGHT
81616
27-Jun-2024
16:18



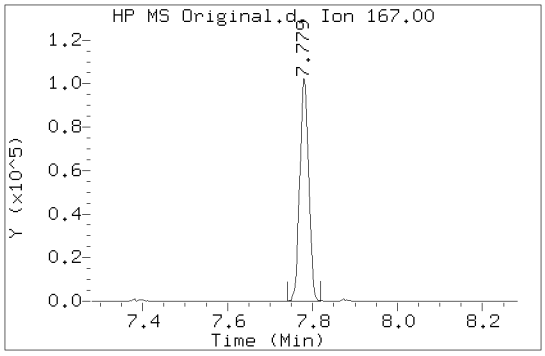

BEFORE
MASS
119
AREA
98141
HEIGHT
68016
25-Jun-2024
20:13



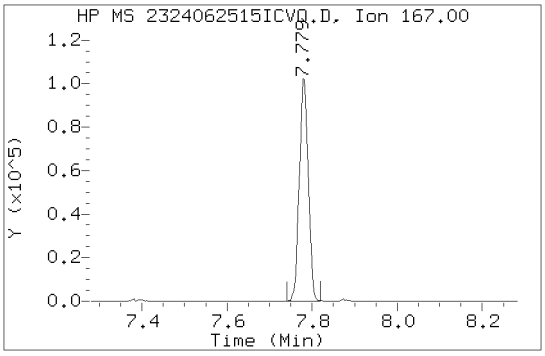

AFTER
MASS
119
AREA
98141
HEIGHT
68016
27-Jun-2024
16:18




BEFORE
MASS
167
AREA
146572
HEIGHT
102128
25-Jun-2024
20:13




AFTER
MASS
167
AREA
146572
HEIGHT
102128
27-Jun-2024
16:18



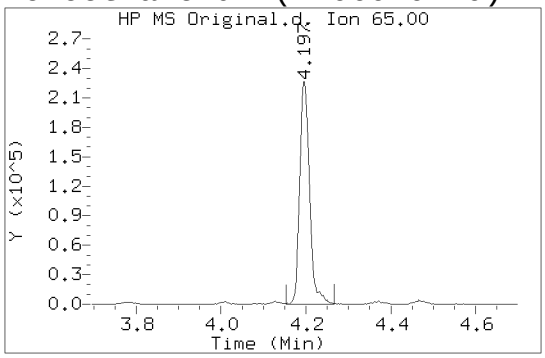
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Inj Date : 25-JUN-2024 15:39
InstruID : ms23.i
LabSampID : ICVQ

## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

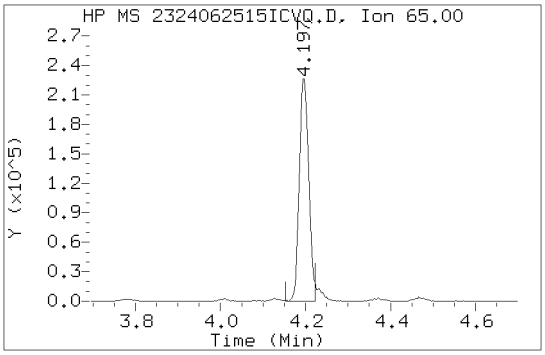
BEFORE

MASS
65
AREA
358614
HEIGHT
226066
25-Jun-2024
20:13



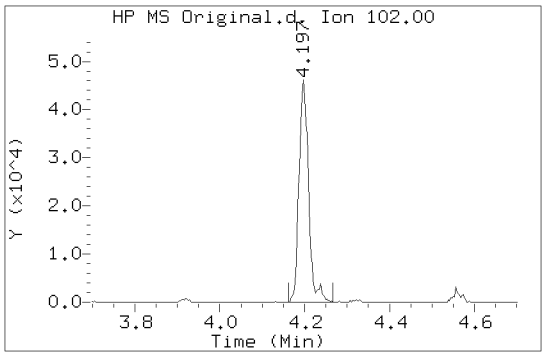

AFTER

MASS
65
AREA
343875
HEIGHT
226066
27-Jun-2024
16:18



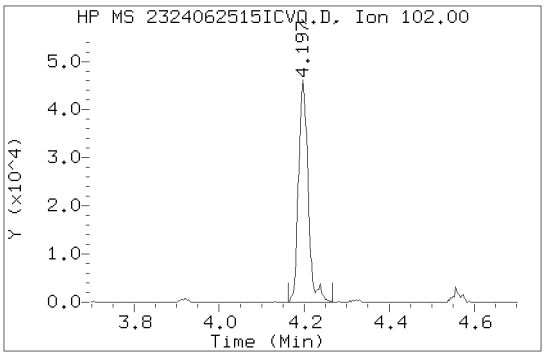

BEFORE

MASS
102
AREA
71081
HEIGHT
46176
25-Jun-2024
20:13



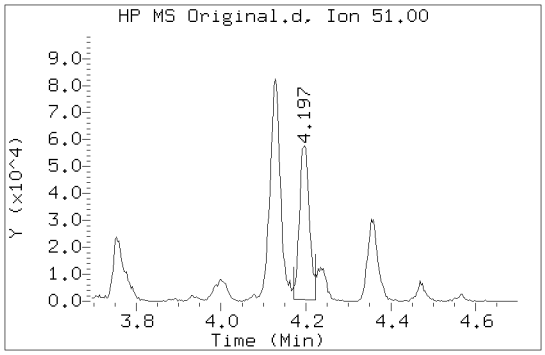

AFTER

MASS
102
AREA
71081
HEIGHT
46176
27-Jun-2024
16:18



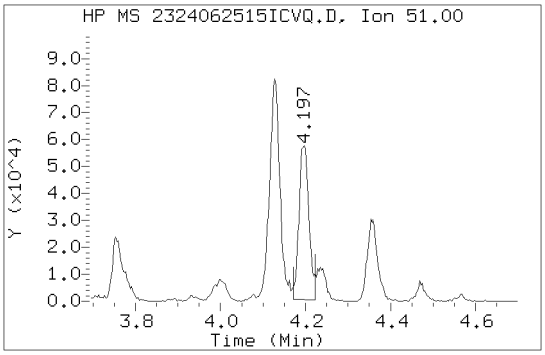

BEFORE

MASS
51
AREA
92559
HEIGHT
57202
25-Jun-2024
20:13




AFTER

MASS
51
AREA
92559
HEIGHT
57202
27-Jun-2024
16:18



# UNASSIGNED PEAK REPORT

Report Date: 06/27/2024 16:18
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240625.b/232406251
Inj Date: 25-JUN-2024 15:39
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062532.D Page 1
Report Date: 27-Jun-2024 16:39

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062532.D
Lab Smp Id: 1801
Inj Date : 25-JUN-2024 21:17
Operator : ILY Inst ID: ms23.i
Smp Info : 1801;;1;;;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\23-8260b09.m
Meth Date : 25-Jun-2024 20:25 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 31 QC Sample: ENDCCV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.632 | 1.632 | (0.375) | 632266 | 47.4074 | 47.4074 | |
| 2 Chloromethane | 50 | 1.785 | 1.785 | (0.410) | 347899 | 42.6959 | 42.6959 | |
| 3 Vinyl Chloride | 62 | 1.849 | 1.849 | (0.424) | 384088 | 47.8502 | 47.8502 | |
| 4 Bromomethane | 94 | 2.072 | 2.072 | (0.476) | 272349 | 44.8419 | 44.8419 | |
| 5 Chloroethane | 64 | 2.147 | 2.144 | (0.493) | 206746 | 46.8096 | 46.8096 | |
| 6 Pentane | 41 | 2.245 | 2.245 | (0.516) | 237948 | 44.0630 | 44.0630 | |
| 7 Trichlorofluoromethane | 101 | 2.248 | 2.248 | (0.516) | 828398 | 48.4752 | 48.4752 | |
| 8 Dichlorofluoromethane | 67 | 2.277 | 2.277 | (0.523) | 785562 | 54.4552 | 54.4552 | |
| 9 Ethyl Ether | 74 | 2.442 | 2.442 | (0.561) | 246991 | 54.8406 | 54.8406 | |
| 10 1,1-Dichloroethene | 61 | 2.578 | 2.578 | (0.592) | 526944 | 51.7235 | 51.7235 | |
| 12 Carbon Disulfide | 76 | 2.619 | 2.619 | (0.601) | 1013916 | 51.3089 | 51.3089 | |
| 11 Freon 113 | 101 | 2.593 | 2.590 | (0.595) | 339940 | 49.0538 | 49.0538 | |
| 13 Iodomethane | 127 | 2.680 | 2.677 | (0.615) | 208868 | 50.6353 | 50.6353 | |
| 14 Acrolein | 56 | 2.764 | 2.761 | (0.634) | 333073 | 260.009 | 260.009 | |
| 16 3-Chloro-1-propene | 41 | 2.848 | 2.851 | (0.654) | 389927 | 50.1448 | 50.1448 | |
| 15 Isopropyl Alcohol | 45 | 2.822 | 2.825 | (0.648) | 130600 | 247.069 | 247.069 | |
| 17 Methylene Chloride | 84 | 2.908 | 2.911 | (0.668) | 399748 | 54.1475 | 54.1475 | |
| 18 Acetone | 58 | 2.920 | 2.920 | (0.670) | 182041 | 267.487 | 267.487 | |
| 19 Methyl acetate | 74 | 2.984 | 2.984 | (0.685) | 85072 | 49.6541 | 49.6541 | |
| 20 trans-1,2-Dichloroethene | 61 | 3.004 | 3.004 | (0.690) | 490063 | 52.4693 | 52.4693 | |
| 21 Hexane | 57 | 3.044 | 3.045 | (0.699) | 596341 | 43.0526 | 43.0526 | |

Data File: 2324062532.D
Report Date: 27-Jun-2024 16:39



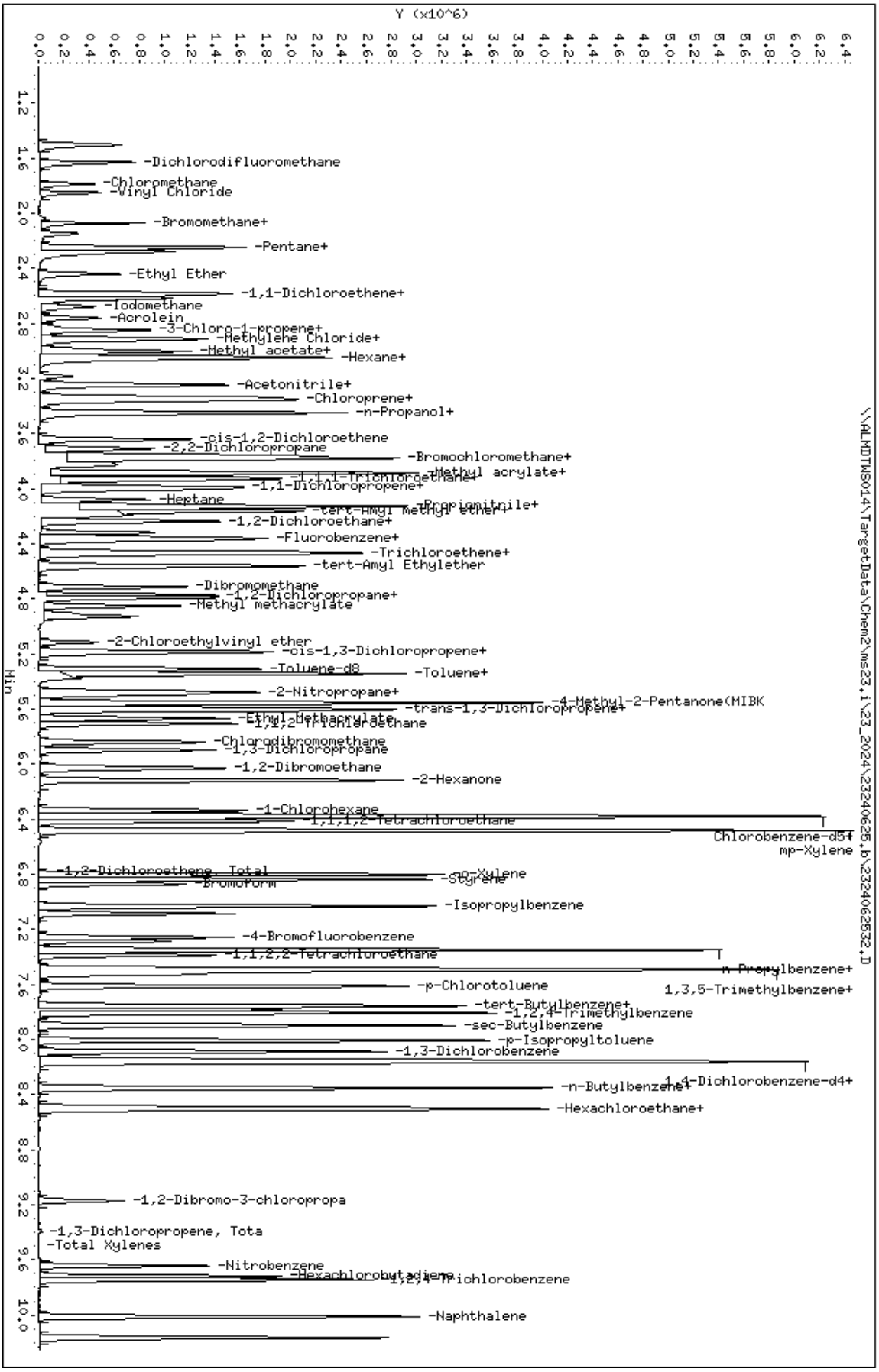
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | 3.050 | 3.050 | (0.700) | 1409090 | 56.5197 | 56.5197 | |
| | 23 tert.- Butyl Alcohol | 59 | 3.068 | 3.068 | (0.704) | 288141 | 277.434 | 277.434 | |
| | 24 Acetonitrile | 41 | 3.183 | 3.184 | (0.731) | 213311 | 272.146 | 272.146 | |
| | 25 Diisopropyl ether | 45 | 3.247 | 3.247 | (0.745) | 940134 | 54.5161 | 54.5161 | |
| | 26 Chloroprene | 53 | 3.334 | 3.334 | (0.765) | 580513 | 48.3110 | 48.3110 | |
| | 27 1,1-Dichloroethane | 63 | 3.346 | 3.346 | (0.768) | 654547 | 49.3510 | 49.3510 | |
| | 28 Acrylonitrile | 53 | 3.357 | 3.357 | (0.771) | 884645 | 256.903 | 256.903(M) | MP |
| | 30 n-Propanol | 41 | 3.450 | 3.447 | (0.792) | 221183 | 548.063 | 548.063 | |
| | 29 Ethyl tert-butyl ether | 59 | 3.450 | 3.450 | (0.792) | 1263077 | 50.7826 | 50.7826 | |
| | 31 Vinyl acetate | 86 | 3.453 | 3.450 | (0.793) | 108315 | 48.9306 | 48.9306 | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.641 | 3.644 | (0.836) | 520933 | 53.9059 | 53.9059 | |
| | 33 2,2-Dichloropropane | 77 | 3.707 | 3.711 | (0.851) | 532931 | 41.7840 | 41.7840 | |
| M | 100 1,2-Dichloroethene, Total | 61 | | | | 1010996 | 106.375 | 106.375 | |
| | 34 Bromochloromethane | 128 | 3.754 | 3.757 | (0.862) | 262161 | 56.1897 | 56.1897 | |
| | 35 Cyclohexane | 84 | 3.783 | 3.783 | (0.868) | 551453 | 50.8785 | 50.8785 | |
| | 36 Chloroform | 83 | 3.780 | 3.780 | (0.868) | 876433 | 54.0686 | 54.0686 | |
| | 37 Ethyl acetate | 43 | 3.818 | 3.815 | (0.876) | 386818 | 54.2968 | 54.2968 | |
| | 38 Methyl acrylate | 55 | 3.832 | 3.832 | (0.880) | 383636 | 50.6099 | 50.6099 | |
| | 39 Carbon Tetrachloride | 117 | 3.890 | 3.890 | (0.893) | 722349 | 49.1110 | 49.1110(M) | MP |
| | 40 Tetrahydrofuran | 42 | 3.881 | 3.881 | (0.891) | 516799 | 274.490 | 274.490 | |
| $ | 41 Dibromofluoromethane | 113 | 3.884 | 3.884 | (0.892) | 273580 | 30.6206 | 30.6206 | |
| | 42 1,1,1-Trichloroethane | 97 | 3.922 | 3.922 | (0.900) | 790910 | 53.3834 | 53.3834 | |
| | 43 2-Butanone | 72 | 3.936 | 3.936 | (0.904) | 283746 | 270.967 | 270.967 | |
| | 44 1,1-Dichloropropene | 75 | 3.988 | 3.988 | (0.916) | 551823 | 52.3246 | 52.3246 | |
| | 45 1-Chlorobutane | 41 | 4.006 | 4.006 | (0.920) | 340962 | 49.7716 | 49.7716 | |
| | 46 Heptane | 71 | 4.078 | 4.078 | (0.936) | 191261 | 39.2495 | 39.2495 | |
| | 48 Propionitrile | 54 | 4.113 | 4.110 | (0.944) | 317882 | 258.733 | 258.733 | |
| | 47 Benzene | 78 | 4.130 | 4.127 | (0.948) | 1491465 | 53.8871 | 53.8871 | |
| | 49 Methacrylonitrile | 67 | 4.127 | 4.127 | (0.947) | 187987 | 55.6194 | 55.6194 | |
| | 50 tert-amyl methyl Ether | 73 | 4.162 | 4.162 | (0.955) | 1299616 | 51.6689 | 51.6689 | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.197 | 4.197 | (0.963) | 353419 | 30.8991 | 30.8991(M) | MP |
| | 54 Isobutyl alcohol | 42 | 4.168 | 4.165 | (0.957) | 103684 | 501.385 | 501.385 | |
| | 52 1,2-Dichloroethane | 62 | 4.237 | 4.235 | (0.973) | 713831 | 54.6623 | 54.6623 | |
| | 53 tert-Amyl Alcohol | 59 | 4.237 | 4.237 | (0.973) | 210762 | 272.316 | 272.316 | |
| * | 55 Fluorobenzene | 96 | 4.356 | 4.356 | (1.000) | 909177 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.373 | 4.374 | (1.004) | 666751 | 44.0513 | 44.0513 | |
| | 57 Trichloroethene | 95 | 4.457 | 4.458 | (1.023) | 438741 | 51.7470 | 51.7470 | |
| | 58 Methyl cyclohexane | 83 | 4.475 | 4.475 | (0.703) | 558461 | 47.8658 | 47.8658 | |
| | 59 tert-Amyl Ethylether | 59 | 4.559 | 4.562 | (1.047) | 929463 | 55.5470 | 55.5470 | |
| | 60 Dibromomethane | 93 | 4.712 | 4.712 | (1.082) | 306998 | 56.3085 | 56.3085 | |
| | 61 1,2-Dichloropropane | 63 | 4.770 | 4.773 | (1.095) | 336312 | 55.7216 | 55.7216 | |
| | 62 Bromodichloromethane | 83 | 4.793 | 4.793 | (1.100) | 660909 | 56.8511 | 56.8511 | |
| | 63 Methyl methacrylate | 41 | 4.851 | 4.851 | (1.114) | 359915 | 49.9253 | 49.9253 | |
| | 65 2-Chloroethylvinyl ether | 63 | 5.115 | 5.118 | (1.174) | 160569 | 46.6083 | 46.6083 | |
| | 66 cis-1,3-Dichloropropene | 75 | 5.181 | 5.181 | (0.814) | 685084 | 47.7020 | 47.7020 | |
| | 67 Octane | 85 | 5.196 | 5.196 | (0.816) | 184603 | 40.4600 | 40.4600 | |
| $ | 68 Toluene-d8 | 98 | 5.309 | 5.309 | (0.834) | 968481 | 29.7090 | 29.7090 | |
| | 69 Toluene | 92 | 5.343 | 5.344 | (0.839) | 1031636 | 51.5508 | 51.5508 | |
| | 70 Chloroacetonitrile | 75 | 5.381 | 5.378 | (0.845) | 154927 | 247.020 | 247.020 | |
| | 71 2-Nitropropane | 41 | 5.477 | 5.474 | (0.860) | 844516 | 247.669 | 247.669 | |
| | 72 1,1-Dichloro-2-propanone | 63 | 5.494 | 5.497 | (0.863) | 74137 | 262.909 | 262.909(Q) | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.555 | 5.555 | (0.873) | 1852771 | 252.762 | 252.762 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.592 | 5.593 | (0.879) | 717372 | 48.4070 | 48.4070 | |
| | 74 Tetrachloroethene | 164 | 5.607 | 5.607 | (0.881) | 479509 | 55.1179 | 55.1179 | |

Data File: 2324062532.D Page 3
Report Date: 27-Jun-2024 16:39

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl methacrylate | 69 | 5.668 | 5.665 | (0.890) | 610545 | 50.1953 | 50.1953 | |
| | 77 1,1,2-Trichloroethane | 83 | 5.705 | 5.705 | (0.896) | 320432 | 53.9593 | 53.9593 | |
| | 78 Chlorodibromomethane | 129 | 5.841 | 5.842 | (0.918) | 610227 | 50.5568 | 50.5568 | |
| | 79 1,3-Dichloropropane | 76 | 5.899 | 5.899 | (0.927) | 687187 | 55.1624 | 55.1624 | |
| | 80 1,2-Dibromoethane | 107 | 6.021 | 6.021 | (0.946) | 482033 | 55.4462 | 55.4462 | |
| | 81 2-Hexanone | 43 | 6.116 | 6.117 | (0.961) | 1344035 | 248.552 | 248.552 | |
| | 82 1-Chlorohexane | 91 | 6.336 | 6.337 | (0.995) | 512058 | 49.0146 | 49.0146 | |
| * | 83 Chlorobenzene-d5 | 82 | 6.365 | 6.366 | (1.000) | 408983 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | 6.383 | 6.383 | (1.003) | 622464 | 51.3896 | 51.3896 | |
| | 84 Chlorobenzene | 112 | 6.380 | 6.380 | (1.002) | 1230662 | 53.5370 | 53.5370 | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | 6.415 | 6.415 | (1.008) | 523371 | 55.5015 | 55.5015 | |
| | 87 mp-Xylene | 106 | 6.481 | 6.484 | (1.018) | 1554900 | 106.175 | 106.175 | |
| M | 120 1,3-Dichloropropene, Total | 75 | | | | 1402456 | 96.1089 | 96.1089 | |
| | 88 o-Xylene | 106 | 6.800 | 6.803 | (1.068) | 773859 | 53.7564 | 53.7564 | |
| | 89 Styrene | 104 | 6.837 | 6.838 | (0.840) | 1301569 | 48.1946 | 48.1946 | |
| | 90 Bromoform | 173 | 6.872 | 6.872 | (0.844) | 471028 | 49.3380 | 49.3380 | |
| | 91 Isopropylbenzene | 105 | 7.031 | 7.031 | (0.863) | 1825496 | 47.5884 | 47.5884 | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.257 | 7.260 | (0.891) | 405092 | 29.0015 | 29.0015 | |
| M | 121 TOTAL XYLENES | 106 | | | | 2328759 | 159.932 | 159.932 | |
| | 94 n-Propylbenzene | 120 | 7.353 | 7.350 | (0.903) | 541559 | 47.6867 | 47.6867 | |
| | 93 Bromobenzene | 156 | 7.350 | 7.350 | (0.903) | 607465 | 50.6494 | 50.6494 | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | 7.387 | 7.388 | (0.907) | 528255 | 53.2601 | 53.2601 | |
| | 97 1,3,5-Trimethylbenzene | 105 | 7.495 | 7.495 | (0.920) | 1705577 | 50.9384 | 50.9384 | |
| | 96 o-Chlorotoluene | 91 | 7.483 | 7.486 | (0.919) | 1565115 | 50.5319 | 50.5319 | |
| | 98 1,2,3-Trichloropropane | 110 | 7.506 | 7.509 | (0.922) | 223567 | 53.1376 | 53.1376 | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | 7.526 | 7.529 | (0.924) | 175386 | 44.6108 | 44.6108(Q) | |
| | 101 p-Chlorotoluene | 91 | 7.610 | 7.613 | (0.935) | 1438816 | 50.2429 | 50.2429 | |
| | 102 tert-Butylbenzene | 134 | 7.755 | 7.758 | (0.952) | 415560 | 49.5650 | 49.5650 | |
| | 103 Pentachloroethane | 117 | 7.778 | 7.778 | (0.955) | 342301 | 43.3077 | 43.3077(QM) | MP |
| | 104 1,2,4-Trimethylbenzene | 105 | 7.807 | 7.807 | (0.959) | 1744399 | 51.2960 | 51.2960 | |
| | 105 sec-Butylbenzene | 105 | 7.897 | 7.900 | (0.970) | 1956771 | 49.0809 | 49.0809 | |
| | 106 p-Isopropyltoluene | 134 | 8.007 | 8.007 | (0.983) | 474685 | 49.2926 | 49.2926 | |
| | 107 1,3-Dichlorobenzene | 146 | 8.088 | 8.088 | (0.993) | 1056643 | 50.0002 | 50.0002 | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 8.143 | 8.143 | (1.000) | 482823 | 30.0000 | | |
| | 109 1,4-Dichlorobenzene | 146 | 8.158 | 8.158 | (1.002) | 1079499 | 49.8319 | 49.8319 | |
| | 111 n-Butylbenzene | 134 | 8.355 | 8.355 | (1.026) | 424751 | 47.6582 | 47.6582(Q) | |
| | 110 Benzyl Chloride | 126 | 8.349 | 8.349 | (1.025) | 166735 | 31.8988 | 31.8988(Q) | |
| | 112 Hexachloroethane | 117 | 8.494 | 8.497 | (1.043) | 358989 | 47.3388 | 47.3388 | |
| | 113 1,2-Dichlorobenzene | 146 | 8.505 | 8.505 | (1.044) | 1047696 | 51.0694 | 51.0694 | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | 9.168 | 9.171 | (1.126) | 146469 | 53.5378 | 53.5378 | |
| | 115 Nitrobenzene | 77 | 9.643 | 9.643 | (1.184) | 567172 | 473.249 | 473.249 | |
| | 116 Hexachlorobutadiene | 225 | 9.718 | 9.718 | (1.193) | 324787 | 46.0230 | 46.0230 | |
| | 117 1,2,4-Trichlorobenzene | 180 | 9.744 | 9.747 | (1.197) | 724037 | 51.0076 | 51.0076 | |
| | 118 Naphthalene | 128 | 10.011 | 10.014 | (1.229) | 1969053 | 49.4612 | 49.4612 | |
| | 119 1,2,3-Trichlorobenzene | 180 | 10.164 | 10.167 | (1.248) | 742051 | 52.8294 | 52.8294 | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.




Data File: \\ALMDTWS014\TargetData\Chem2\ms23,i\23_2024\23240625,b\2324062532.D
Date : 25-JUN-2024 21:17
Client ID:
Sample Info: 1801;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

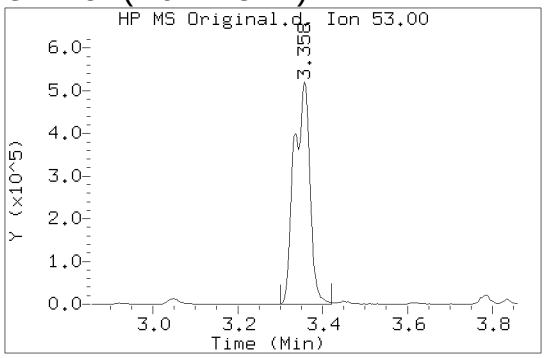
Instrument: ms23,i
Operator: ILY
Column diameter: 0.25

Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062532.D
Inj Date : 25-JUN-2024 21:17
InstruID : ms23.i
LabSampID : 1801

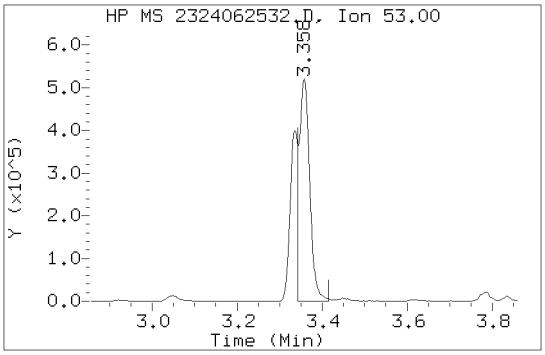
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Reason Code: MP

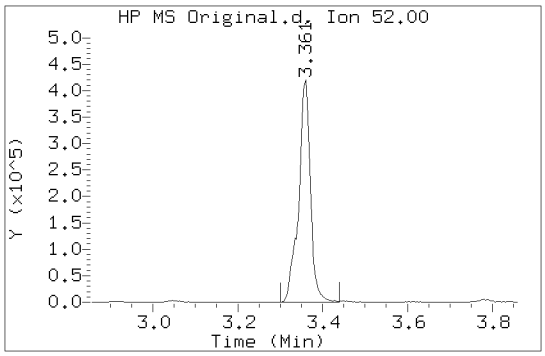
BEFORE
MASS
53
AREA
1342017
HEIGHT
520640
25-Jun-2024
23:00



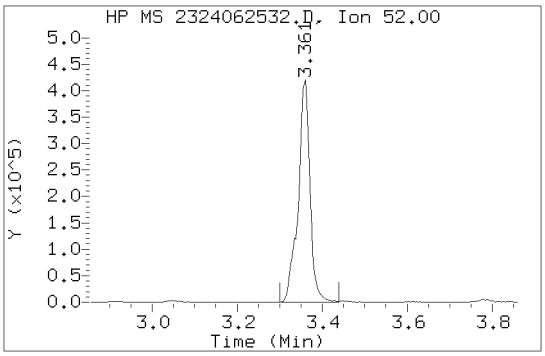

AFTER
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53
AREA
884645
HEIGHT
520069
27-Jun-2024
16:39



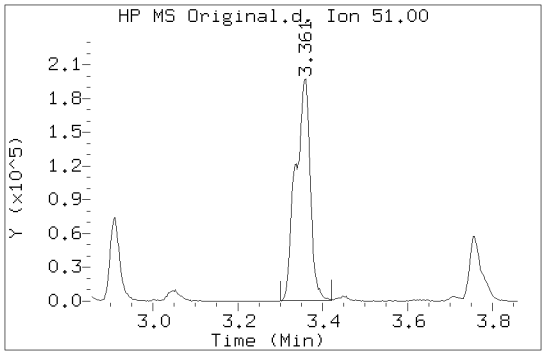

BEFORE
MASS
52
AREA
804453
HEIGHT
420224
25-Jun-2024
23:00



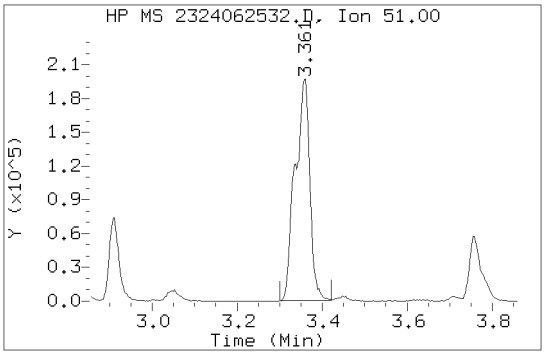

AFTER
MASS
52
AREA
804453
HEIGHT
420224
27-Jun-2024
16:39




BEFORE
MASS
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AREA
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HEIGHT
197001
25-Jun-2024
23:00



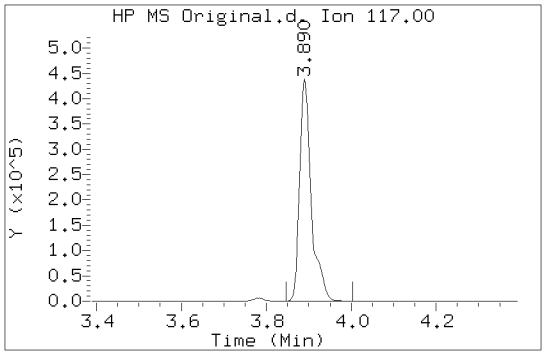

AFTER
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AREA
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HEIGHT
197001
27-Jun-2024
16:39



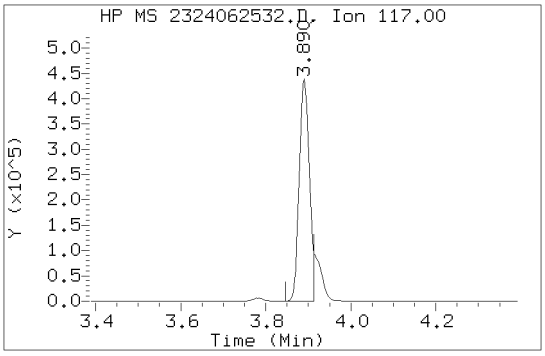

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

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AREA
829732
HEIGHT
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25-Jun-2024
23:00




AFTER
MASS
117
AREA
722349
HEIGHT
439040
27-Jun-2024
16:39

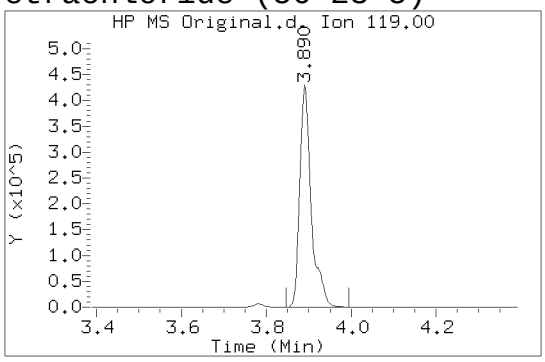


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InstruID : ms23.i
LabSampID : 1801

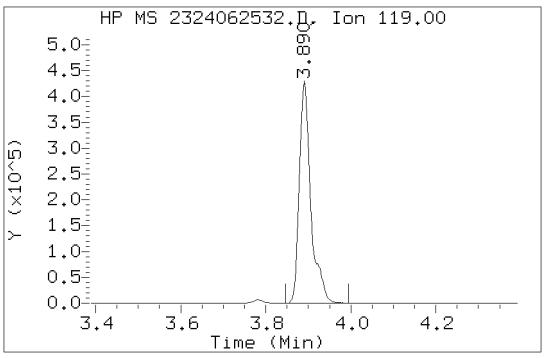
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Reason Code: MP

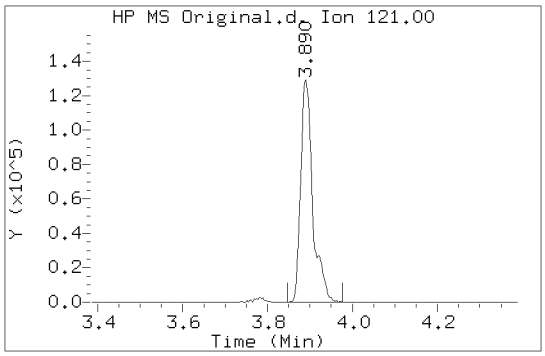
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119
AREA
798009
HEIGHT
430080
25-Jun-2024
23:00



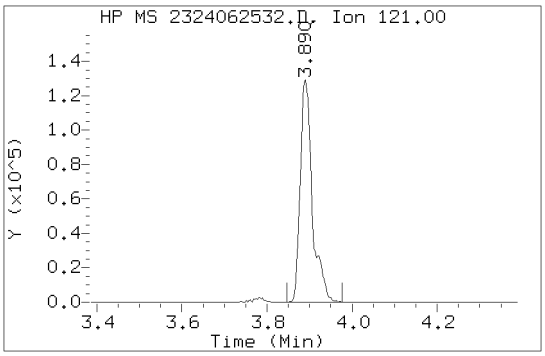

AFTER
MASS
119
AREA
798009
HEIGHT
430080
27-Jun-2024
16:39




BEFORE
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121
AREA
251593
HEIGHT
129152
25-Jun-2024
23:00



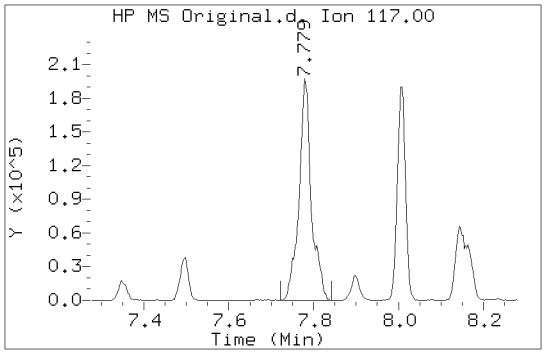

AFTER
MASS
121
AREA
251593
HEIGHT
129152
27-Jun-2024
16:39



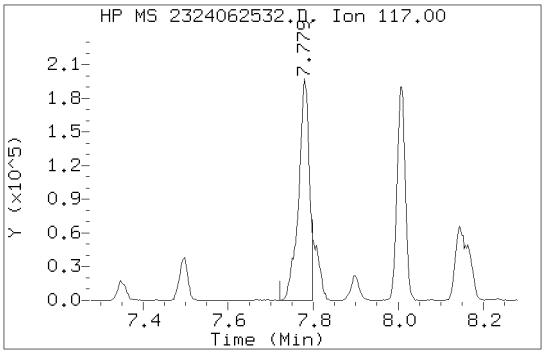

## Pentachloroethane (76-01-7)

Reason Code: MP

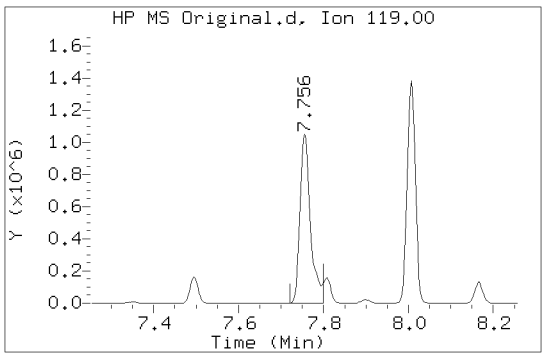
BEFORE
MASS
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HEIGHT
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25-Jun-2024
23:00



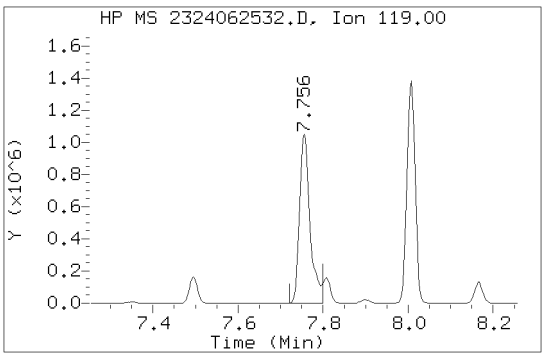

AFTER
MASS
117
AREA
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HEIGHT
197376
27-Jun-2024
16:39




BEFORE
MASS
119
AREA
1787851
HEIGHT
1050754
25-Jun-2024
23:00




AFTER
MASS
119
AREA
1787851
HEIGHT
1050754
27-Jun-2024
16:39

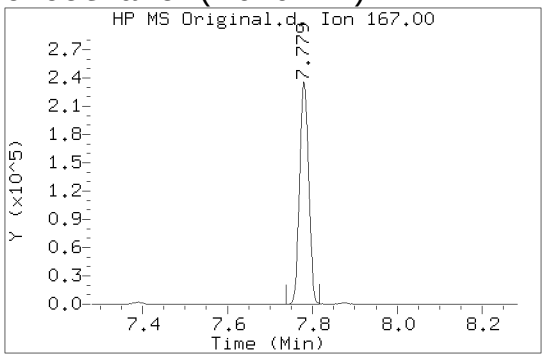


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Inj Date : 25-JUN-2024 21:17
InstruID : ms23.i
LabSampID : 1801

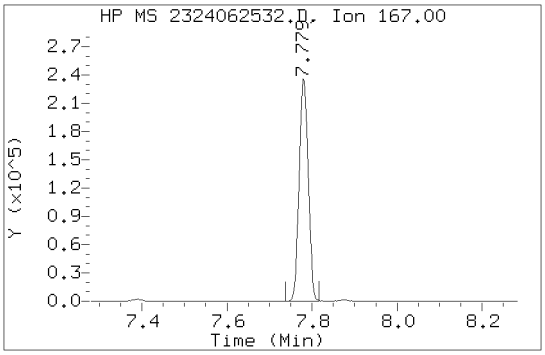
## Pentachloroethane (76-01-7)

Reason Code: MP

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AREA
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HEIGHT
235381
25-Jun-2024
23:00



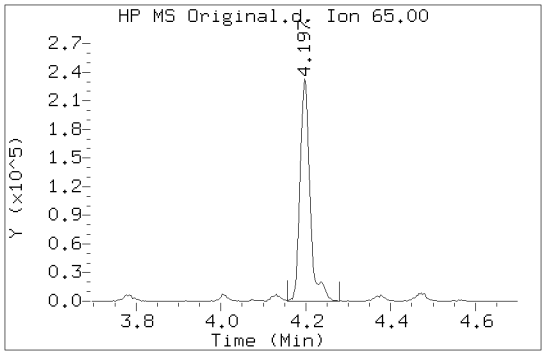

AFTER
MASS
167
AREA
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HEIGHT
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27-Jun-2024
16:39



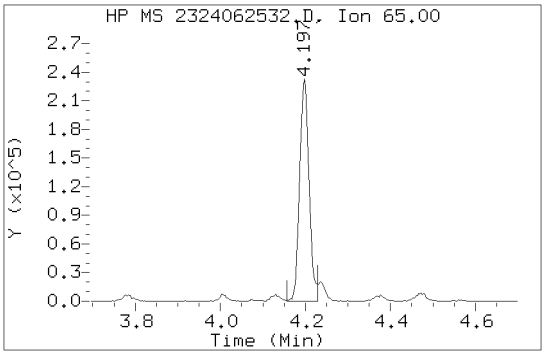

## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

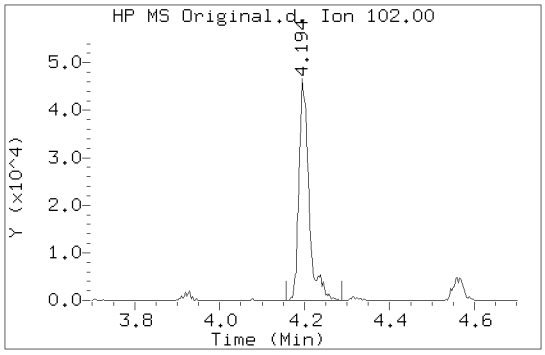
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HEIGHT
232960
25-Jun-2024
23:00



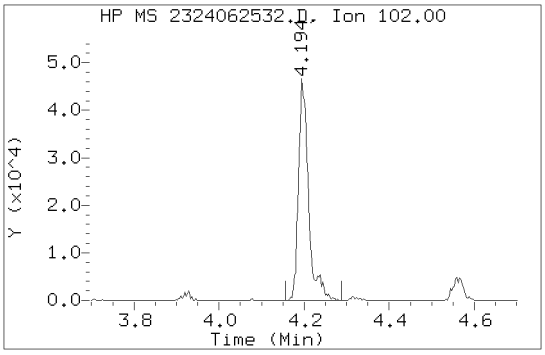

AFTER
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232960
27-Jun-2024
16:39



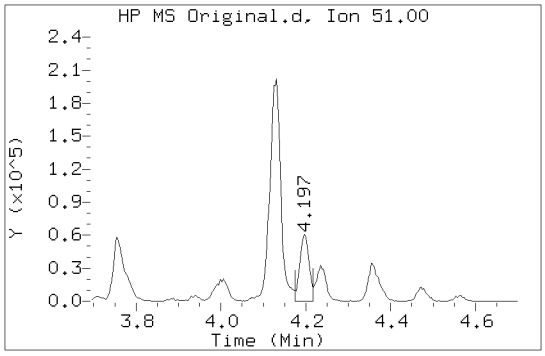

BEFORE
MASS
102
AREA
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HEIGHT
46640
25-Jun-2024
23:00



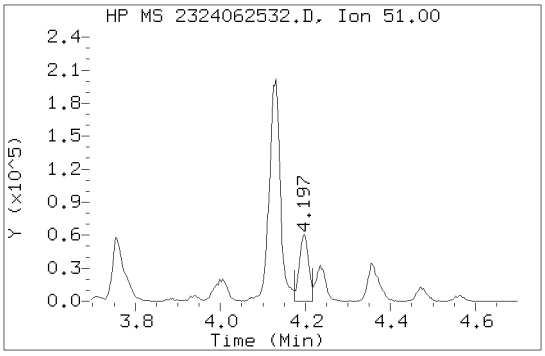

AFTER
MASS
102
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75030
HEIGHT
46640
27-Jun-2024
16:39




BEFORE
MASS
51
AREA
91702
HEIGHT
60798
25-Jun-2024
23:00




AFTER
MASS
51
AREA
91702
HEIGHT
60798
27-Jun-2024
16:39



# UNASSIGNED PEAK REPORT

Report Date: 06/27/2024 16:39
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240625.b/232406253
Inj Date: 25-JUN-2024 21:17
Operator: ILY

There were no Unassigned peaks in this sample!

right solutions.
right partner.

# Raw Data 23240627

## Volatiles by EPA 8260D

Workorder

**3366027**

Client

ALS Houston

Project

AHH131|HS24061196

07/09/2024

www.alsglobal.com

Data File: 2324062700.D Page 1
Report Date: 28-Jun-2024 08:03

ALS Environmental Services

BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062700.D
Lab Smp Id: 1000
Inj Date : 27-JUN-2024 08:15
Operator : ILY Inst ID: ms23.i
Smp Info : 1000
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\bfb288.m
Meth Date : 13-Sep-2023 15:55 bsimms Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAMDTW7026

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

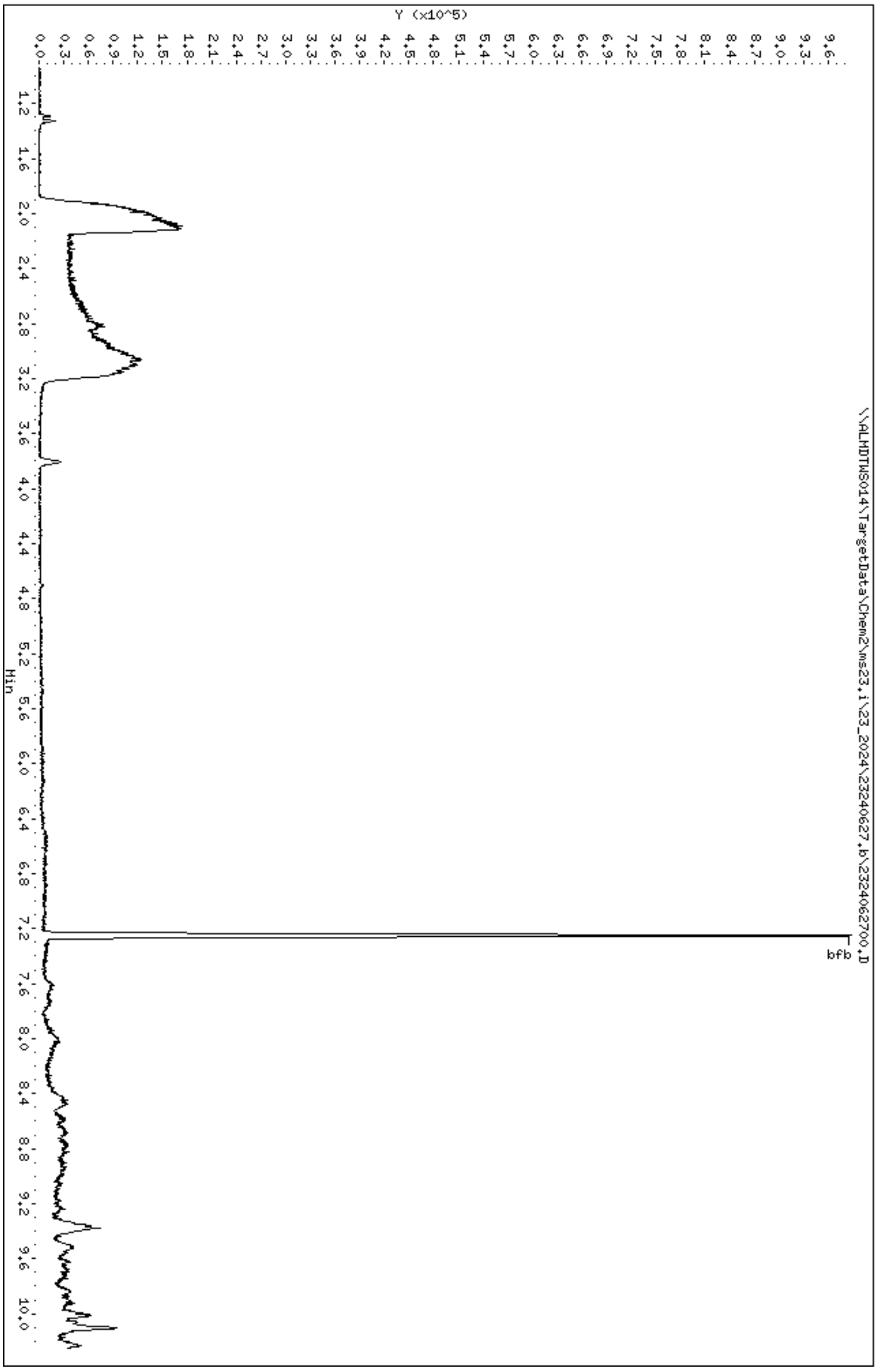
| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vf | 1.000 | Volumetric correction factor |
| Vi | 1.000 | Injection Volume |
| Cpnd Variable | | Local Compound Variable |

| | | | | | CONCENTRATIONS ON-COL ( ug/L) | FINAL ( ug/L) | | |
|---|---|---|---|---|---|---|---|---|
| RT | EXP RT | REL RT | MASS | RESPONSE | | | TARGET RANGE | RATIO |
| 1 bfb | | | | | | CAS #: 460-00-4 | | |
| 7.248 | 7.159 ( 0.000) | | 95 | 183488 | | | 0.00- 100.00 | 100.00 |
| 7.248 | 8.129 ( 0.000) | | 50 | 33264 | | | 15.00- 40.00 | 18.13 |
| 7.248 | 8.129 ( 0.000) | | 75 | 95024 | | | 30.00- 60.00 | 51.79 |
| 7.248 | 8.129 ( 0.000) | | 96 | 12452 | | | 5.00- 9.00 | 6.79 |
| 7.248 | 8.129 ( 0.000) | | 173 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 7.248 | 8.129 ( 0.000) | | 174 | 176128 | | | 50.00- 0.00 | 95.99 |
| 7.248 | 8.129 ( 0.000) | | 175 | 13239 | | | 5.00- 9.00 | 7.52 |
| 7.248 | 8.129 ( 0.000) | | 176 | 174208 | | | 95.00- 101.00 | 98.91 |
| 7.248 | 8.129 ( 0.000) | | 177 | 11719 | | | 5.00- 9.00 | 6.73 |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 18.13 |
| 75 | 30.00 - 60.00% of mass 95 | 51.79 |
| 96 | 5.00 - 9.00% of mass 95 | 6.79 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 95.99 |
| 175 | 5.00 - 9.00% of mass 174 | 7.22 ( 7.52) |
| 176 | 95.00 - 101.00% of mass 174 | 94.94 ( 98.91) |
| 177 | 5.00 - 9.00% of mass 176 | 6.39 ( 6.73) |

Data File: 2324062700.D
Spectrum: Avg. Scans 2179-2181 ( 7.25), Background Scan 2167
Location of Maximum: 95.00
Number of points: 103

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 1745 | 70.00 | 1338 | 107.00 | 445 | 143.00 | 2075 |
| 37.00 | 8310 | 72.00 | 1290 | 109.00 | 54 | 145.00 | 309 |
| 38.00 | 6182 | 73.00 | 8970 | 110.00 | 178 | 146.00 | 352 |
| 39.00 | 2389 | 74.00 | 32152 | 111.00 | 180 | 147.00 | 78 |
| 40.00 | 122 | 75.00 | 95024 | 112.00 | 310 | 148.00 | 780 |
| 44.00 | 634 | 76.00 | 9092 | 113.00 | 79 | 149.00 | 162 |
| 45.00 | 1097 | 77.00 | 614 | 115.00 | 124 | 150.00 | 301 |
| 47.00 | 1589 | 78.00 | 1453 | 116.00 | 943 | 151.00 | 72 |
| 48.00 | 1088 | 79.00 | 4517 | 117.00 | 1345 | 152.00 | 58 |
| 49.00 | 6562 | 80.00 | 1325 | 118.00 | 861 | 153.00 | 211 |
| 50.00 | 33264 | 81.00 | 5251 | 119.00 | 850 | 154.00 | 137 |
| 51.00 | 9365 | 82.00 | 898 | 124.00 | 116 | 155.00 | 242 |
| 52.00 | 495 | 85.00 | 74 | 126.00 | 91 | 156.00 | 184 |
| 55.00 | 523 | 86.00 | 256 | 127.00 | 91 | 157.00 | 439 |
| 56.00 | 2707 | 87.00 | 4357 | 128.00 | 773 | 159.00 | 443 |
| 57.00 | 4318 | 88.00 | 5457 | 129.00 | 336 | 161.00 | 278 |
| 58.00 | 271 | 91.00 | 686 | 130.00 | 750 | 167.00 | 85 |
| 60.00 | 2115 | 92.00 | 5618 | 131.00 | 314 | 171.00 | 419 |
| 61.00 | 9283 | 93.00 | 8088 | 135.00 | 438 | 172.00 | 1081 |
| 62.00 | 8541 | 94.00 | 23480 | 136.00 | 54 | 174.00 | 176128 |
| 63.00 | 6308 | 95.00 | 183488 | 137.00 | 524 | 175.00 | 13239 |
| 64.00 | 1074 | 96.00 | 12452 | 138.00 | 57 | 176.00 | 174208 |
| 65.00 | 209 | 97.00 | 405 | 139.00 | 150 | 177.00 | 11719 |
| 67.00 | 529 | 104.00 | 764 | 140.00 | 151 | 178.00 | 469 |
| 68.00 | 18824 | 105.00 | 459 | 141.00 | 2589 | 249.00 | 61 |
| 69.00 | 19136 | 106.00 | 545 | 142.00 | 560 | | |


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Sample Info: 1000
Volume Injected (uL): 1.0
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Instrument: ms23,i
Operator: ILY
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Page 1
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Min
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bfb

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InstruID  : ms23.i
LabSampID : 1000

NO MANUAL INTEGRATIONS

Data File: 2324062701.D Page 1
Report Date: 28-Jun-2024 11:18

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062701.D
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Inj Date : 27-JUN-2024 08:44
Operator : ILY Inst ID: ms23.i
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Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260all.sub
Target Version: 4.14
Processing Host: NAMDTW7026

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.632 | 1.632 | (0.375) | 669061 | 50.0000 | 47.9910 | |
| 2 Chloromethane | 50 | 1.788 | 1.788 | (0.411) | 413592 | 50.0000 | 48.5571 | |
| 3 Vinyl Chloride | 62 | 1.852 | 1.852 | (0.425) | 428268 | 50.0000 | 51.0407 | |
| 4 Bromomethane | 94 | 2.075 | 2.075 | (0.477) | 309610 | 50.0000 | 48.7653 | |
| 5 Chloroethane | 64 | 2.150 | 2.150 | (0.494) | 249943 | 50.0000 | 54.1360 | |
| 6 Pentane | 41 | 2.245 | 2.245 | (0.516) | 262024 | 50.0000 | 46.4174 | |
| 7 Trichlorofluoromethane | 101 | 2.251 | 2.251 | (0.517) | 869974 | 50.0000 | 48.7006 | |
| 8 Dichlorofluoromethane | 67 | 2.280 | 2.280 | (0.524) | 796424 | 50.0000 | 52.8142 | |
| 9 Ethyl Ether | 74 | 2.439 | 2.439 | (0.560) | 245553 | 50.0000 | 52.1572 | |
| 10 1,1-Dichloroethene | 61 | 2.578 | 2.578 | (0.592) | 536036 | 50.0000 | 50.3344 | |
| 11 Freon 113 | 101 | 2.593 | 2.593 | (0.596) | 373096 | 50.0000 | 51.5037 | |
| 12 Carbon Disulfide | 76 | 2.619 | 2.619 | (0.602) | 1062410 | 50.0000 | 51.4317 | |
| 13 Iodomethane | 127 | 2.677 | 2.677 | (0.615) | 224041 | 50.0000 | 51.8197 | |
| 14 Acrolein | 56 | 2.761 | 2.761 | (0.634) | 349876 | 250.000 | 261.283 | |
| 15 Isopropyl Alcohol | 45 | 2.825 | 2.825 | (0.649) | 116858 | 250.000 | 211.191 | |
| 16 3-Chloro-1-propene | 41 | 2.851 | 2.851 | (0.655) | 405465 | 50.0000 | 49.8830 | |
| 17 Methylene Chloride | 84 | 2.909 | 2.909 | (0.668) | 405186 | 50.0000 | 52.5042 | |
| 18 Acetone | 58 | 2.920 | 2.920 | (0.671) | 177639 | 250.000 | 249.701 | |
| 19 Methyl acetate | 74 | 2.981 | 2.981 | (0.685) | 77195 | 50.0000 | 43.1027 | |
| 20 trans-1,2-Dichloroethene | 61 | 3.004 | 3.004 | (0.690) | 512080 | 50.0000 | 52.4491 | |
| 21 Hexane | 57 | 3.045 | 3.045 | (0.699) | 689457 | 50.0000 | 47.6167 | |

Data File: 2324062701.D
Report Date: 28-Jun-2024 11:18



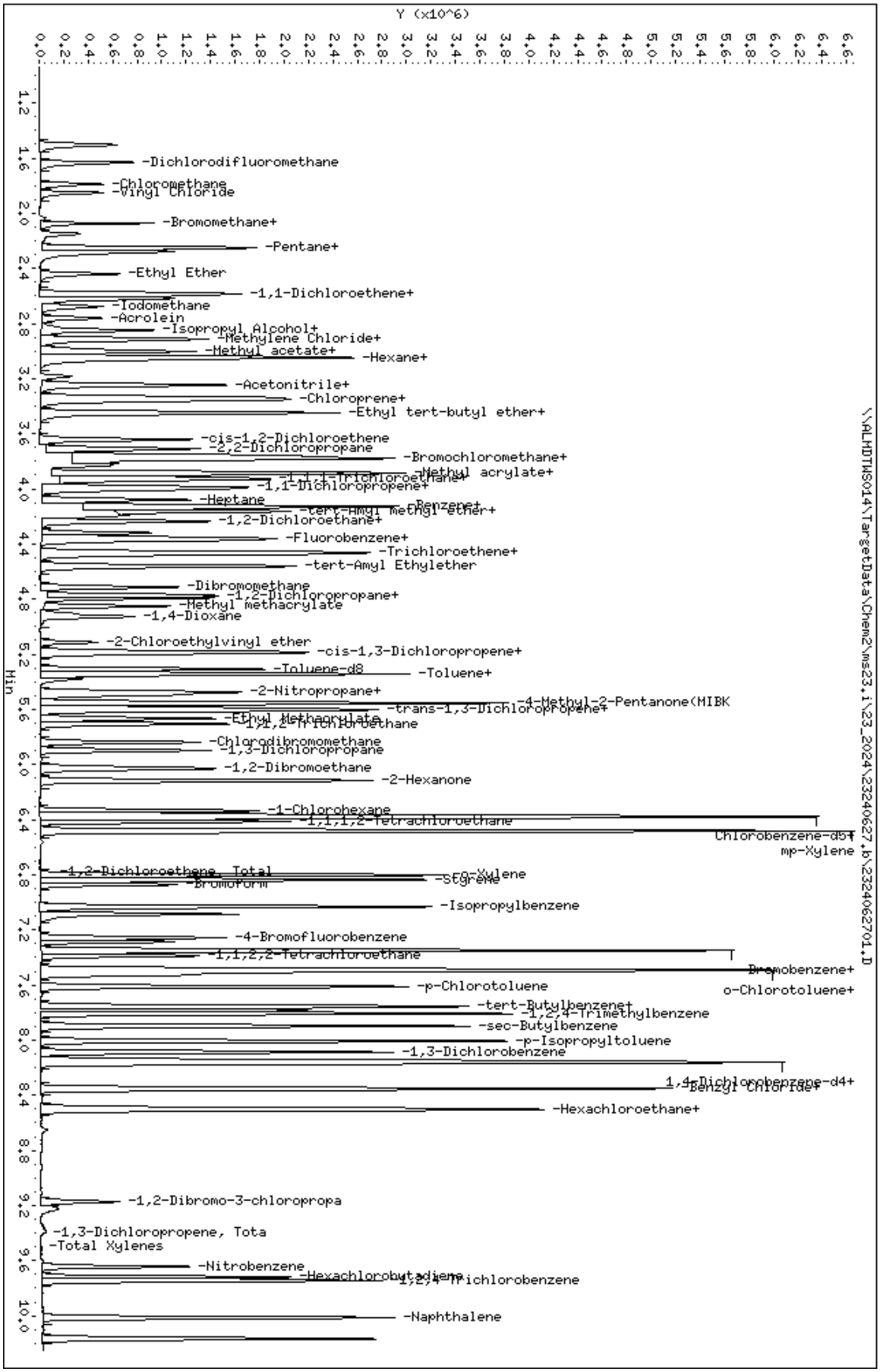
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | 3.047 | 3.047 | (0.700) | 1379413 | 50.0000 | 52.9301 | |
| | 23 tert.- Butyl Alcohol | 59 | 3.065 | 3.065 | (0.704) | 276195 | 250.000 | 254.401 | |
| | 24 Acetonitrile | 41 | 3.184 | 3.184 | (0.731) | 200965 | 250.000 | 245.277 | |
| | 25 Diisopropyl ether | 45 | 3.244 | 3.244 | (0.745) | 967047 | 50.0000 | 53.6451 | |
| | 26 Chloroprene | 53 | 3.334 | 3.334 | (0.766) | 611311 | 50.0000 | 48.6663 | |
| | 27 1,1-Dichloroethane | 63 | 3.346 | 3.346 | (0.769) | 674335 | 50.0000 | 48.6412 | |
| | 28 Acrylonitrile | 53 | 3.354 | 3.354 | (0.771) | 798534 | 250.000 | 222.006(M) | MP |
| | 29 Ethyl tert-butyl ether | 59 | 3.447 | 3.447 | (0.792) | 1260242 | 50.0000 | 48.4815 | |
| | 30 n-Propanol | 41 | 3.447 | 3.447 | (0.792) | 222594 | 500.000 | 527.642(a) | |
| | 31 Vinyl Acetate | 86 | 3.447 | 3.447 | (0.792) | 111201 | 50.0000 | 48.0616 | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.641 | 3.641 | (0.836) | 533012 | 50.0000 | 52.7642 | |
| | 33 2,2-Dichloropropane | 77 | 3.708 | 3.708 | (0.852) | 757659 | 50.0000 | 56.8278 | |
| | 34 Bromochloromethane | 128 | 3.757 | 3.757 | (0.863) | 260309 | 50.0000 | 53.3734 | |
| | 35 Cyclohexane | 84 | 3.780 | 3.780 | (0.868) | 577558 | 50.0000 | 50.9763 | |
| | 36 Chloroform | 83 | 3.780 | 3.780 | (0.868) | 864499 | 50.0000 | 51.0198 | |
| | 37 Ethyl Acetate | 43 | 3.815 | 3.815 | (0.876) | 379359 | 50.0000 | 50.9408 | |
| | 38 Methyl acrylate | 55 | 3.832 | 3.832 | (0.880) | 370718 | 50.0000 | 46.8054 | |
| | 39 Carbon Tetrachloride | 117 | 3.890 | 3.890 | (0.894) | 727699 | 50.0000 | 47.3377(M) | MP |
| $ | 41 Dibromofluoromethane | 113 | 3.881 | 3.881 | (0.892) | 276443 | 30.0000 | 29.5994 | |
| | 40 Tetrahydrofuran | 42 | 3.878 | 3.878 | (0.891) | 488463 | 250.000 | 248.190 | |
| | 42 1,1,1-Trichloroethane | 97 | 3.922 | 3.922 | (0.901) | 794057 | 50.0000 | 51.2718 | |
| | 43 2-Butanone | 72 | 3.936 | 3.936 | (0.904) | 280706 | 250.000 | 256.440 | |
| | 44 1,1-Dichloropropene | 75 | 3.986 | 3.986 | (0.916) | 579776 | 50.0000 | 52.5913 | |
| | 45 1-Chlorobutane | 41 | 4.006 | 4.006 | (0.920) | 360078 | 50.0000 | 50.2829 | |
| | 46 Heptane | 71 | 4.081 | 4.081 | (0.937) | 268107 | 50.0000 | 52.6336 | |
| | 47 Benzene | 78 | 4.130 | 4.130 | (0.949) | 1517969 | 50.0000 | 52.4666 | |
| | 48 Propionitrile | 54 | 4.113 | 4.113 | (0.945) | 303144 | 250.000 | 236.149 | |
| | 49 Methacrylonitrile | 67 | 4.127 | 4.127 | (0.948) | 178452 | 50.0000 | 50.5089 | |
| | 50 tert-Amyl methyl ether | 73 | 4.162 | 4.162 | (0.956) | 1283635 | 50.0000 | 48.8326 | |
| | 54 Isobutyl alcohol | 42 | 4.168 | 4.168 | (0.957) | 98934 | 500.000 | 459.878 | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.197 | 4.197 | (0.964) | 344791 | 30.0000 | 28.8376(M) | MP |
| | 52 1,2-Dichloroethane | 62 | 4.235 | 4.235 | (0.973) | 697029 | 50.0000 | 51.0612 | |
| | 53 tert-Amyl Alcohol | 59 | 4.237 | 4.237 | (0.973) | 200988 | 250.000 | 248.427 | |
| * | 55 Fluorobenzene | 96 | 4.353 | 4.353 | (1.000) | 950388 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.371 | 4.371 | (1.004) | 763715 | 50.0000 | 48.4339 | |
| | 57 Trichloroethene | 95 | 4.458 | 4.458 | (1.024) | 448293 | 50.0000 | 50.5809 | |
| | 58 Methyl cyclohexane | 83 | 4.472 | 4.472 | (0.703) | 614207 | 50.0000 | 52.0924 | |
| | 59 tert-Amyl Ethylether | 59 | 4.562 | 4.562 | (1.048) | 944158 | 50.0000 | 53.9785 | |
| | 60 Dibromomethane | 93 | 4.712 | 4.712 | (1.082) | 303891 | 50.0000 | 53.3217 | |
| | 61 1,2-Dichloropropane | 63 | 4.773 | 4.773 | (1.096) | 338727 | 50.0000 | 53.6882 | |
| | 62 Bromodichloromethane | 83 | 4.793 | 4.793 | (1.101) | 649198 | 50.0000 | 53.4222 | |
| | 63 Methyl methacrylate | 41 | 4.851 | 4.851 | (1.114) | 349410 | 50.0000 | 46.3838 | |
| | 64 1,4-Dioxane | 88 | 4.903 | 4.903 | (1.126) | 158018 | 1250.00 | 1285.21 | |
| | 65 2-Chloroethylvinyl ether | 63 | 5.115 | 5.115 | (1.175) | 153095 | 50.0000 | 43.1907 | |
| | 66 cis-1,3-Dichloropropene | 75 | 5.181 | 5.181 | (0.814) | 731066 | 50.0000 | 50.3541 | |
| | 67 Octane | 85 | 5.196 | 5.196 | (0.816) | 274347 | 50.0000 | 59.4997 | |
| $ | 68 Toluene-d8 | 98 | 5.309 | 5.309 | (0.834) | 986453 | 30.0000 | 29.9434 | |
| | 69 Toluene | 92 | 5.343 | 5.343 | (0.839) | 1065734 | 50.0000 | 52.6969 | |
| | 70 Chloroacetonitrile | 75 | 5.375 | 5.375 | (0.844) | 146480 | 250.000 | 231.240 | |
| | 71 2-Nitropropane | 41 | 5.474 | 5.474 | (0.860) | 785986 | 250.000 | 228.215 | |
| | 72 1,1-Dichloro-2-Propanone | 63 | 5.497 | 5.497 | (0.864) | 67461 | 250.000 | 236.728 | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.552 | 5.552 | (0.872) | 1802928 | 250.000 | 243.429 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.592 | 5.592 | (0.879) | 754097 | 50.0000 | 50.3430 | |
| | 74 Tetrachloroethene | 164 | 5.607 | 5.607 | (0.881) | 444442 | 50.0000 | 50.5520 | |

Data File: 2324062701.D Page 3
Report Date: 28-Jun-2024 11:18

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl Methacrylate | 69 | 5.665 | 5.665 | (0.890) | 593202 | 50.0000 | 48.2701 | |
| | 77 1,1,2-Trichloroethane | 83 | 5.703 | 5.703 | (0.896) | 320250 | 50.0000 | 53.3638 | |
| | 78 Chlorodibromomethane | 129 | 5.839 | 5.839 | (0.917) | 580472 | 50.0000 | 47.6035 | |
| | 79 1,3-Dichloropropane | 76 | 5.899 | 5.899 | (0.927) | 681912 | 50.0000 | 54.1656 | |
| | 80 1,2-Dibromoethane | 107 | 6.021 | 6.021 | (0.946) | 465079 | 50.0000 | 52.9357 | |
| | 81 2-Hexanone | 43 | 6.117 | 6.117 | (0.961) | 1301678 | 250.000 | 238.254 | |
| | 82 1-Chlorohexane | 91 | 6.334 | 6.334 | (0.995) | 567220 | 50.0000 | 53.7261 | |
| * | 83 Chlorobenzene-d5 | 82 | 6.366 | 6.366 | (1.000) | 413312 | 30.0000 | | |
| | 84 Chlorobenzene | 112 | 6.377 | 6.377 | (1.002) | 1259933 | 50.0000 | 54.2363 | |
| | 85 Ethylbenzene | 106 | 6.380 | 6.380 | (1.002) | 647174 | 50.0000 | 52.8700 | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | 6.415 | 6.415 | (1.008) | 517582 | 50.0000 | 54.3127 | |
| | 87 mp-Xylene | 106 | 6.481 | 6.481 | (1.018) | 1606639 | 100.000 | 108.559 | |
| | 88 o-Xylene | 106 | 6.800 | 6.800 | (1.068) | 800607 | 50.0000 | 55.0319 | |
| | 89 Styrene | 104 | 6.837 | 6.837 | (0.840) | 1342482 | 50.0000 | 51.3341 | |
| | 90 Bromoform | 173 | 6.869 | 6.869 | (0.844) | 445467 | 50.0000 | 48.2055 | |
| | 91 Isopropylbenzene | 105 | 7.031 | 7.031 | (0.863) | 1885777 | 50.0000 | 50.7722 | |
| M | 100 1,2-Dichloroethene, Total | 61 | | | | 1045092 | 100.000 | 105.213 | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.254 | 7.254 | (0.891) | 398493 | 30.0000 | 29.4696 | |
| | 93 Bromobenzene | 156 | 7.350 | 7.350 | (0.903) | 611132 | 50.0000 | 52.6350 | |
| | 94 n-Propylbenzene | 120 | 7.350 | 7.350 | (0.903) | 571304 | 50.0000 | 51.9643 | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | 7.388 | 7.388 | (0.907) | 513593 | 50.0000 | 53.4889 | |
| | 96 o-Chlorotoluene | 91 | 7.486 | 7.486 | (0.919) | 1615631 | 50.0000 | 53.8825 | |
| | 97 1,3,5-Trimethylbenzene | 105 | 7.495 | 7.495 | (0.920) | 1772637 | 50.0000 | 54.6865 | |
| | 98 1,2,3-Trichloropropane | 110 | 7.506 | 7.506 | (0.922) | 210146 | 50.0000 | 51.5943 | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | 7.527 | 7.527 | (0.924) | 184220 | 50.0000 | 48.3741 | |
| | 101 p-Chlorotoluene | 91 | 7.611 | 7.611 | (0.935) | 1501289 | 50.0000 | 54.1527 | |
| | 102 tert-Butylbenzene | 134 | 7.755 | 7.755 | (0.952) | 429865 | 50.0000 | 52.9614 | |
| | 103 Pentachloroethane | 117 | 7.781 | 7.781 | (0.956) | 397443 | 50.0000 | 51.8990(M) | MP |
| | 104 1,2,4-Trimethylbenzene | 105 | 7.807 | 7.807 | (0.959) | 1795948 | 50.0000 | 54.5529 | |
| | 105 sec-Butylbenzene | 105 | 7.897 | 7.897 | (0.970) | 2069243 | 50.0000 | 53.6130 | |
| | 106 p-Isopropyltoluene | 134 | 8.007 | 8.007 | (0.983) | 518982 | 50.0000 | 55.6692 | |
| | 107 1,3-Dichlorobenzene | 146 | 8.088 | 8.088 | (0.993) | 1095421 | 50.0000 | 53.5440 | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 8.143 | 8.143 | (1.000) | 467414 | 30.0000 | | |
| | 109 1,4-Dichlorobenzene | 146 | 8.158 | 8.158 | (1.002) | 1115681 | 50.0000 | 53.2000 | |
| | 110 Benzyl Chloride | 126 | 8.349 | 8.349 | (1.025) | 275630 | 50.0000 | 54.2287 | |
| | 111 n-Butylbenzene | 134 | 8.355 | 8.355 | (1.026) | 467488 | 50.0000 | 54.1826 | |
| | 112 Hexachloroethane | 117 | 8.497 | 8.497 | (1.043) | 360234 | 50.0000 | 49.0608 | |
| | 113 1,2-Dichlorobenzene | 146 | 8.505 | 8.505 | (1.044) | 1063541 | 50.0000 | 53.5508 | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | 9.174 | 9.174 | (1.127) | 138495 | 50.0000 | 52.2920 | |
| | 115 Nitrobenzene | 77 | 9.640 | 9.640 | (1.184) | 499283 | 500.000 | 433.121 | |
| | 116 Hexachlorobutadiene | 225 | 9.718 | 9.718 | (1.193) | 353065 | 50.0000 | 51.6794 | |
| M | 120 1,3-Dichloropropene, Total | 75 | | | | 1485163 | 100.000 | 100.697 | |
| | 117 1,2,4-Trichlorobenzene | 180 | 9.744 | 9.744 | (1.197) | 753818 | 50.0000 | 54.8563 | |
| M | 121 Total Xylenes | 106 | | | | 2407246 | 150.000 | 163.591 | |
| | 118 Naphthalene | 128 | 10.014 | 10.014 | (1.230) | 1916895 | 50.0000 | 49.7371 | |
| | 119 1,2,3-Trichlorobenzene | 180 | 10.167 | 10.167 | (1.249) | 742665 | 50.0000 | 54.6162 | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

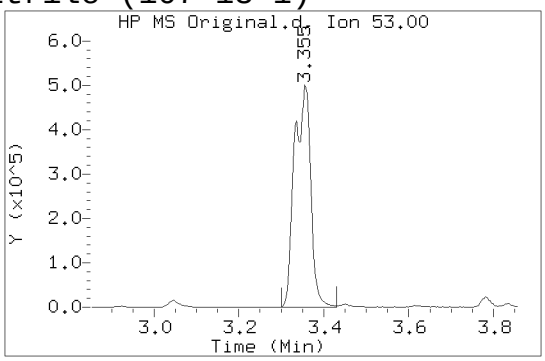

Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane+
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Iodomethane
-Acrolein
-Isopropyl Alcohol+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Methyl acrylate+
-1,1,1-Trichloroethane+
-1,1-Dichloropropene+
-Heptane
-Benzene+
-tert-Amyl methyl ether+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-1,2-Dichloroethene, Total
-Bromoform
-o-Xylene
-Styrene
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane
Bromobenzene+
-p-Chlorotoluene
o-Chlorotoluene+
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
Benzyl Chloride+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Total Xylenes
-Nitrobenzene
-Hexachlorobutadiene
1,2,4-Trichlorobenzene
-Naphthalene
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Instrument: ms23.i
Operator: ILY
Column diameter: 0.25
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Page 1

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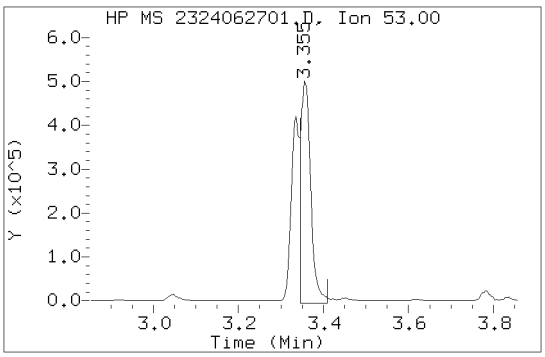
## Acrylonitrile (107-13-1)

Reason Code: MP

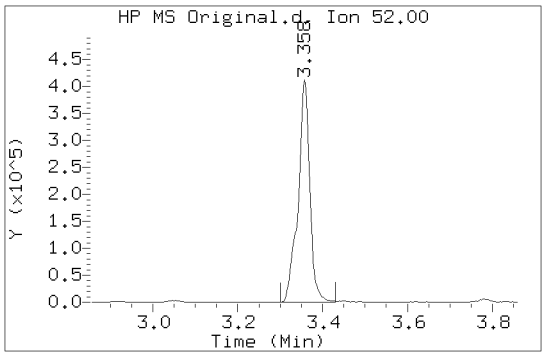
BEFORE
MASS
53
AREA
1327228
HEIGHT
500712
27-Jun-2024
08:56



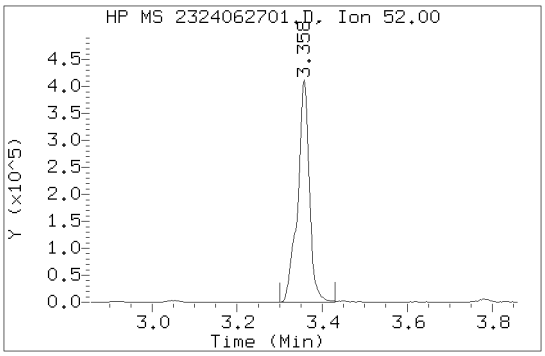

AFTER
MASS
53
AREA
798534
HEIGHT
506128
28-Jun-2024
11:18



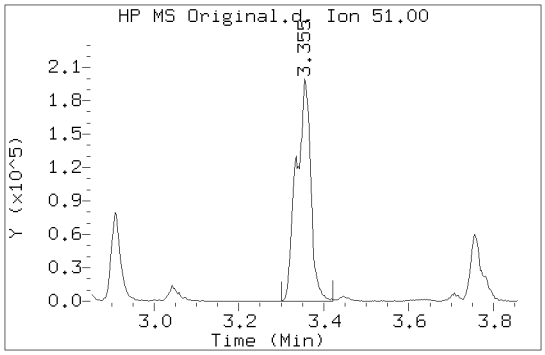

BEFORE
MASS
52
AREA
781318
HEIGHT
412160
27-Jun-2024
08:56



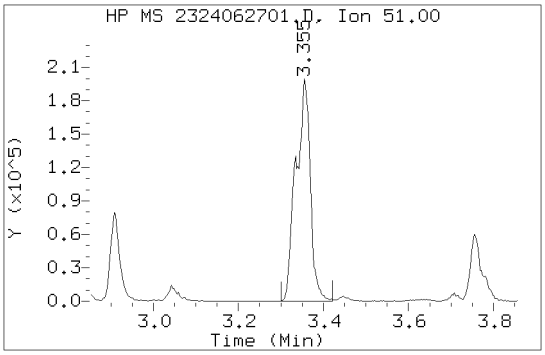

AFTER
MASS
52
AREA
781318
HEIGHT
412160
28-Jun-2024
11:18




BEFORE
MASS
51
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467066
HEIGHT
199616
27-Jun-2024
08:56



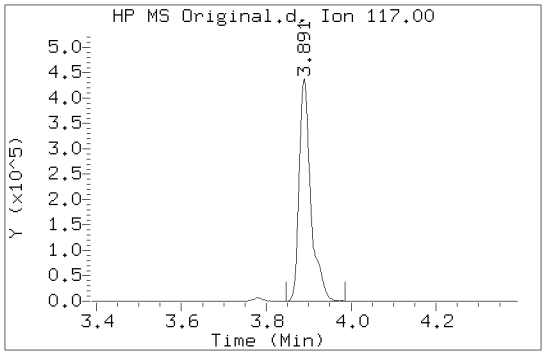

AFTER
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51
AREA
467066
HEIGHT
199616
28-Jun-2024
11:18



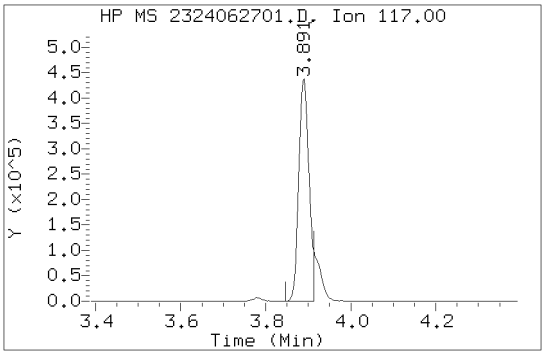

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

BEFORE
MASS
117
AREA
826661
HEIGHT
437696
27-Jun-2024
08:56




AFTER
MASS
117
AREA
727699
HEIGHT
437696
28-Jun-2024
11:18

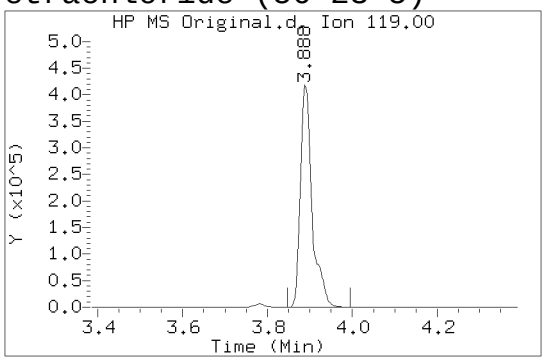


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Inj Date : 27-JUN-2024 08:44
InstruID : ms23.i
LabSampID : 1800

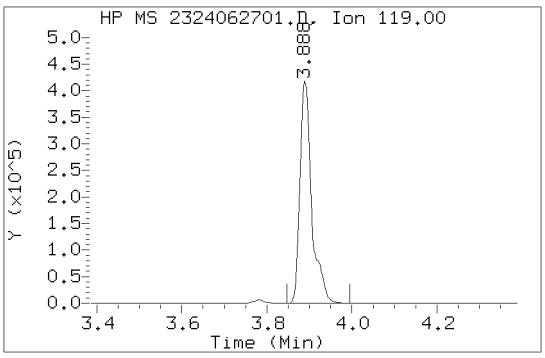
## Carbon Tetrachloride (56-23-5)

Reason Code: MP

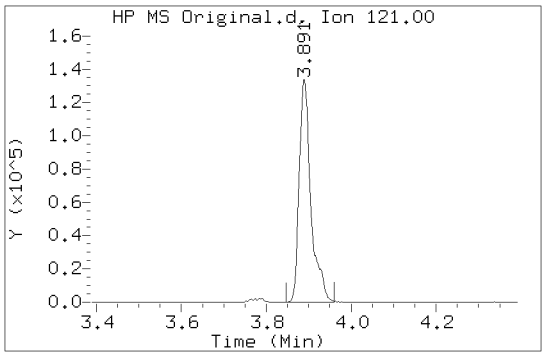
**BEFORE**
MASS
119
AREA
792406
HEIGHT
418432
27-Jun-2024
08:56



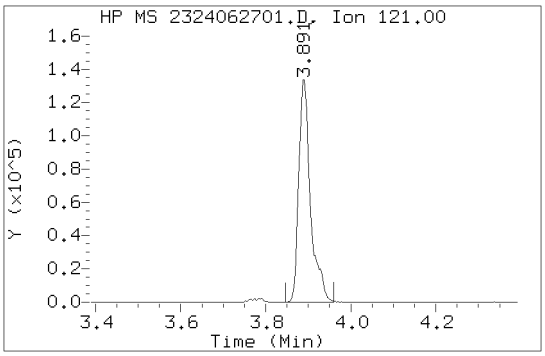

**AFTER**
MASS
119
AREA
792406
HEIGHT
418432
28-Jun-2024
11:18




**BEFORE**
MASS
121
AREA
253769
HEIGHT
133568
27-Jun-2024
08:56



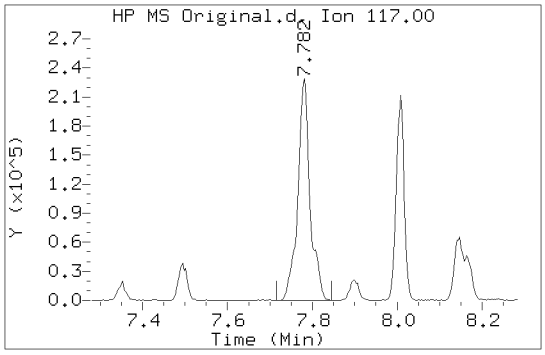

**AFTER**
MASS
121
AREA
253769
HEIGHT
133568
28-Jun-2024
11:18



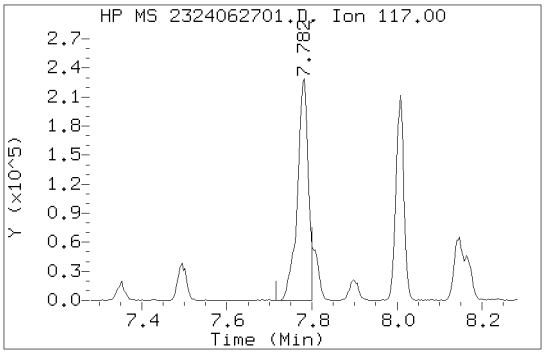

## Pentachloroethane (76-01-7)

Reason Code: MP

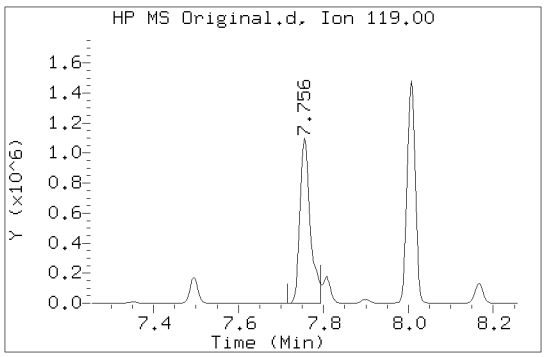
**BEFORE**
MASS
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AREA
452392
HEIGHT
228928
27-Jun-2024
08:56



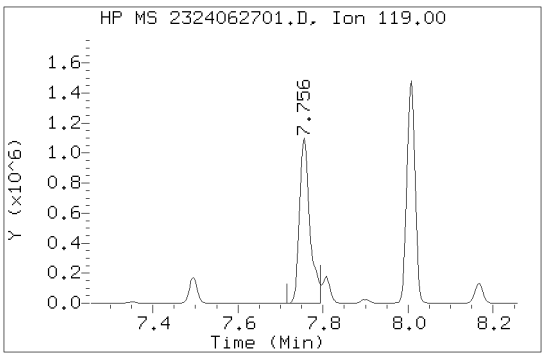

**AFTER**
MASS
117
AREA
397443
HEIGHT
228928
28-Jun-2024
11:18




**BEFORE**
MASS
119
AREA
1855174
HEIGHT
1102038
27-Jun-2024
08:56




**AFTER**
MASS
119
AREA
1855174
HEIGHT
1102038
28-Jun-2024
11:18

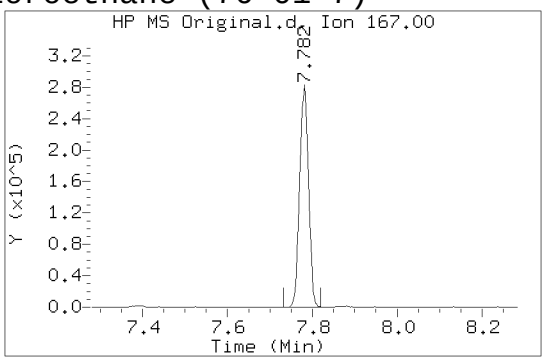


Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062701.D
Inj Date : 27-JUN-2024 08:44
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LabSampID : 1800

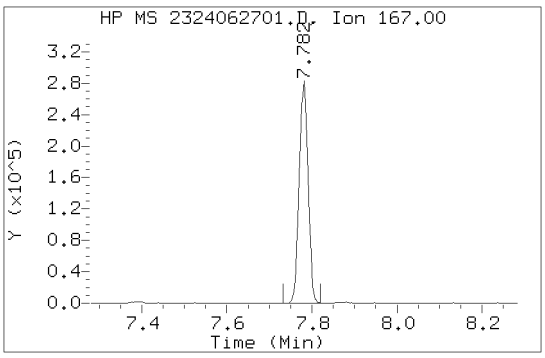
## Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
MASS
167
AREA
404282
HEIGHT
282944
27-Jun-2024
08:56



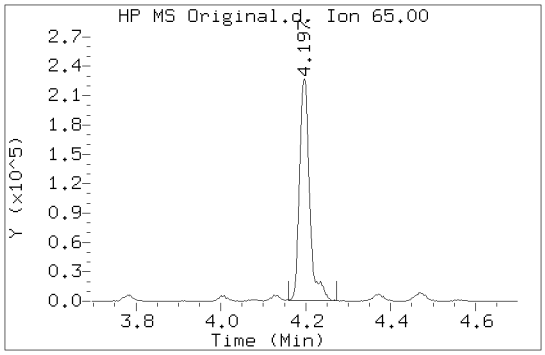

AFTER
MASS
167
AREA
404282
HEIGHT
282944
28-Jun-2024
11:18



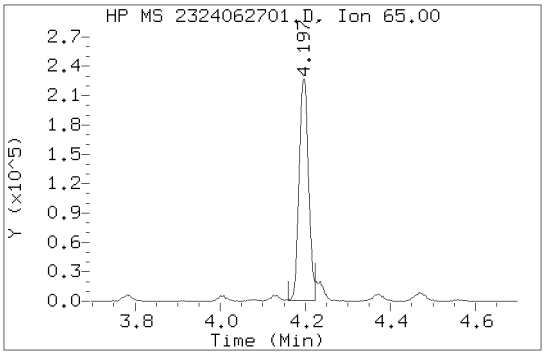

## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

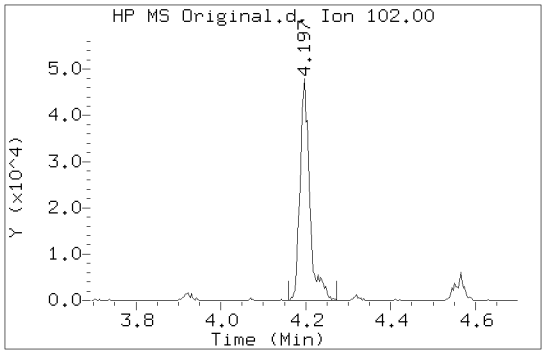
BEFORE
MASS
65
AREA
368366
HEIGHT
226594
27-Jun-2024
08:56



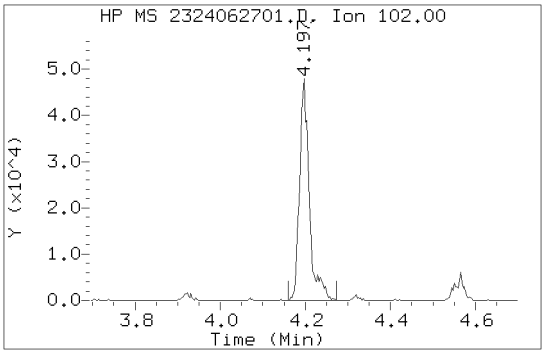

AFTER
MASS
65
AREA
344791
HEIGHT
226594
28-Jun-2024
11:18



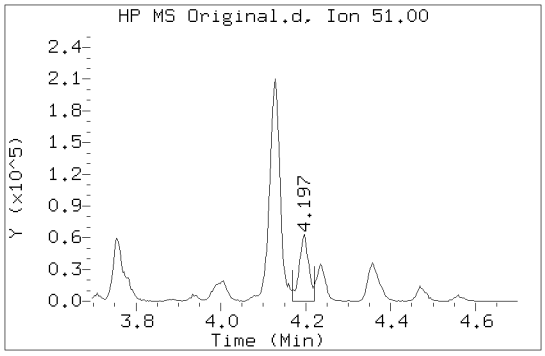

BEFORE
MASS
102
AREA
74844
HEIGHT
47928
27-Jun-2024
08:56



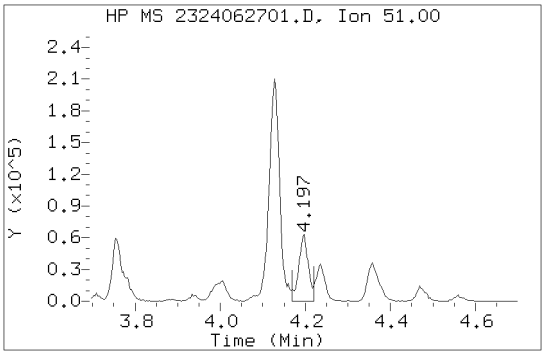

AFTER
MASS
102
AREA
74844
HEIGHT
47928
28-Jun-2024
11:18




BEFORE
MASS
51
AREA
97737
HEIGHT
62769
27-Jun-2024
08:56




AFTER
MASS
51
AREA
97737
HEIGHT
62769
28-Jun-2024
11:18



# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 11:18
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240627.b/232406270
Inj Date: 27-JUN-2024 08:44
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062702.D Page 1
Report Date: 28-Jun-2024 11:18

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062702.D
Lab Smp Id: 3845269 Client Smp ID: LCS for HBN 1235282
Inj Date : 27-JUN-2024 09:34
Operator : ILY Inst ID: ms23.i
Smp Info : 3845269;;1;3;;LCS;1;
Misc Info : ZZ VOMS 73629 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\23-8260b09D.m
Meth Date : 27-Jun-2024 10:11 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.629 | 1.632 | (0.374) | 256724 | 18.3124 | 18.3124 | |
| 2 Chloromethane | 50 | 1.785 | 1.788 | (0.410) | 163879 | 19.1332 | 19.1332 | |
| 3 Vinyl Chloride | 62 | 1.849 | 1.852 | (0.424) | 173845 | 20.6038 | 20.6038 | |
| 4 Bromomethane | 94 | 2.072 | 2.075 | (0.476) | 126320 | 19.7934 | 19.7934 | |
| 5 Chloroethane | 64 | 2.138 | 2.150 | (0.491) | 95577 | 20.5865 | 20.5865 | |
| 6 Pentane | 41 | 2.237 | 2.245 | (0.514) | 108896 | 19.1839 | 19.1839 | |
| 7 Trichlorofluoromethane | 101 | 2.242 | 2.251 | (0.515) | 339220 | 18.8840 | 18.8840 | |
| 8 Dichlorofluoromethane | 67 | 2.274 | 2.280 | (0.522) | 326407 | 21.5254 | 21.5254 | |
| 9 Ethyl Ether | 74 | 2.439 | 2.439 | (0.560) | 99892 | 21.1001 | 21.1001 | |
| 10 1,1-Dichloroethene | 61 | 2.575 | 2.578 | (0.591) | 226845 | 21.1829 | 21.1829 | |
| 12 Carbon Disulfide | 76 | 2.616 | 2.619 | (0.601) | 447868 | 21.5612 | 21.5612 | |
| 11 Freon 113 | 101 | 2.590 | 2.593 | (0.595) | 156496 | 21.4835 | 21.4835 | |
| 13 Iodomethane | 127 | 2.674 | 2.677 | (0.614) | 86399 | 21.3388 | 21.3388 | |
| 14 Acrolein | 56 | 2.761 | 2.761 | (0.634) | 222957 | 165.578 | 165.578 | |
| 16 3-Chloro-1-propene | 41 | 2.845 | 2.851 | (0.653) | 176176 | 21.6619 | 21.6619 | |
| 15 Isopropyl Alcohol | 45 | 2.827 | 2.825 | (0.649) | 51865 | 92.0716 | 92.0716 | |
| 17 Methylene Chloride | 84 | 2.906 | 2.909 | (0.667) | 168713 | 21.7406 | 21.7406 | |
| 18 Acetone | 58 | 2.917 | 2.920 | (0.670) | 86916 | 121.497 | 121.497 | |
| 19 Methyl acetate | 74 | 2.984 | 2.981 | (0.685) | 32848 | 18.2393 | 18.2393 | |
| 20 trans-1,2-Dichloroethene | 61 | 3.001 | 3.004 | (0.689) | 213071 | 21.7025 | 21.7025 | |
| 21 Hexane | 57 | 3.045 | 3.045 | (0.699) | 290755 | 19.9693 | 19.9693 | |
| 22 Methyl t-Butyl Ether | 73 | 3.050 | 3.047 | (0.700) | 573024 | 21.8658 | 21.8658 | |

Data File: 2324062702.D
Report Date: 28-Jun-2024 11:18



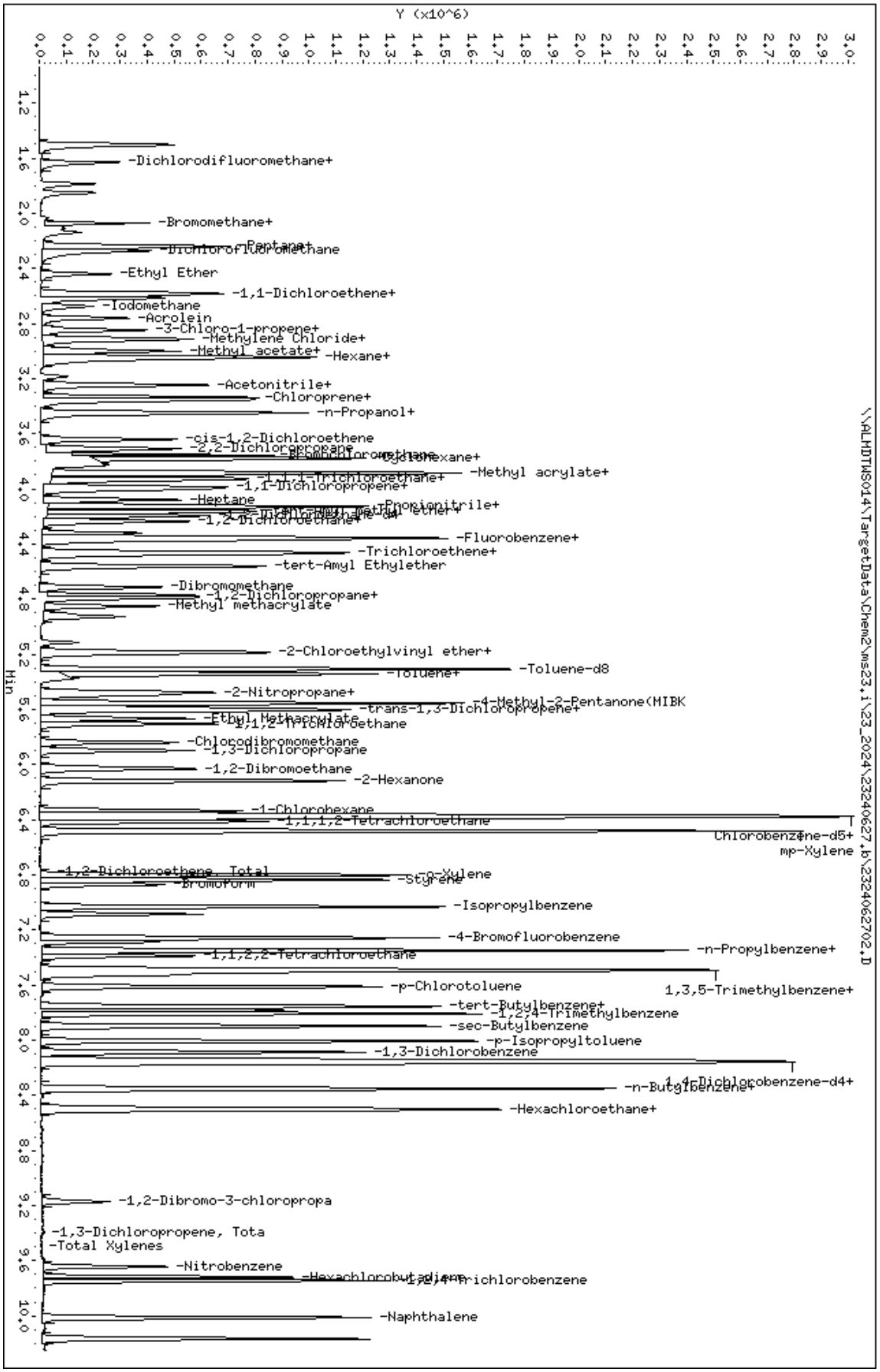
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 23 tert.- Butyl Alcohol | 59 | 3.071 | 3.065 | (0.705) | 107082 | 98.0852 | 98.0852 | |
| | 24 Acetonitrile | 41 | 3.183 | 3.184 | (0.731) | 85655 | 103.962 | 103.962 | |
| | 25 Diisopropyl ether | 45 | 3.244 | 3.244 | (0.745) | 400368 | 22.0865 | 22.0865 | |
| | 26 Chloroprene | 53 | 3.334 | 3.334 | (0.765) | 255827 | 20.3962 | 20.3962 | |
| | 27 1,1-Dichloroethane | 63 | 3.346 | 3.346 | (0.768) | 276371 | 19.9442 | 19.9442 | |
| | 28 Acrylonitrile | 53 | 3.354 | 3.354 | (0.770) | 368689 | 102.592 | 102.592(Q) | |
| | 30 n-Propanol | 41 | 3.447 | 3.447 | (0.791) | 89278 | 210.453 | 210.453(Q) | |
| | 29 Ethyl tert-butyl ether | 59 | 3.447 | 3.447 | (0.791) | 529066 | 20.3672 | 20.3672 | |
| | 31 Vinyl acetate | 86 | 3.447 | 3.447 | (0.791) | 42528 | 18.4701 | 18.4701 | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.638 | 3.641 | (0.835) | 225707 | 22.2194 | 22.2194 | |
| | 33 2,2-Dichloropropane | 77 | 3.708 | 3.708 | (0.851) | 311057 | 23.2012 | 23.2012 | |
| M | 100 1,2-Dichloroethene, Total | 61 | | | | 438778 | 43.9218 | 43.9218 | |
| | 34 Bromochloromethane | 128 | 3.754 | 3.757 | (0.862) | 111345 | 22.7034 | 22.7034 | |
| | 35 Cyclohexane | 84 | 3.780 | 3.780 | (0.868) | 247214 | 21.6985 | 21.6985 | |
| | 36 Chloroform | 83 | 3.780 | 3.780 | (0.868) | 359605 | 21.1049 | 21.1049 | |
| | 37 Ethyl acetate | 43 | 3.815 | 3.815 | (0.876) | 154367 | 20.6136 | 20.6136 | |
| | 38 Methyl acrylate | 55 | 3.835 | 3.832 | (0.880) | 150875 | 19.1036 | 19.1036 | |
| | 39 Carbon Tetrachloride | 117 | 3.890 | 3.890 | (0.893) | 292803 | 19.0787 | 19.0787(M) | MP |
| | 40 Tetrahydrofuran | 42 | 3.881 | 3.878 | (0.891) | 200878 | 101.501 | 101.501 | |
| $ | 41 Dibromofluoromethane | 113 | 3.881 | 3.881 | (0.891) | 272606 | 29.0267 | 29.0267 | |
| | 42 1,1,1-Trichloroethane | 97 | 3.919 | 3.922 | (0.900) | 338877 | 21.7597 | 21.7597 | |
| | 43 2-Butanone | 72 | 3.939 | 3.936 | (0.904) | 120583 | 109.548 | 109.548 | |
| | 44 1,1-Dichloropropene | 75 | 3.985 | 3.986 | (0.915) | 236003 | 21.2890 | 21.2890 | |
| | 45 1-Chlorobutane | 41 | 4.006 | 4.006 | (0.920) | 148672 | 20.6460 | 20.6460 | |
| | 46 Heptane | 71 | 4.078 | 4.081 | (0.936) | 112700 | 22.0021 | 22.0021 | |
| | 48 Propionitrile | 54 | 4.113 | 4.113 | (0.944) | 121444 | 94.8426 | 94.8426 | |
| | 47 Benzene | 78 | 4.127 | 4.130 | (0.947) | 630142 | 21.6592 | 21.6592 | |
| | 49 Methacrylonitrile | 67 | 4.127 | 4.127 | (0.947) | 75471 | 21.2427 | 21.2427 | |
| | 50 tert-amyl methyl Ether | 73 | 4.162 | 4.162 | (0.955) | 540678 | 20.5810 | 20.5810 | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.197 | 4.197 | (0.963) | 354017 | 29.4450 | 29.4450 | |
| | 54 Isobutyl alcohol | 42 | 4.174 | 4.168 | (0.958) | 32435 | 155.431 | 155.431(Q) | |
| | 52 1,2-Dichloroethane | 62 | 4.234 | 4.235 | (0.972) | 288461 | 21.0141 | 21.0141 | |
| | 53 tert-Amyl Alcohol | 59 | 4.243 | 4.237 | (0.974) | 82634 | 101.572 | 101.572 | |
| * | 55 Fluorobenzene | 96 | 4.356 | 4.353 | (1.000) | 955689 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.371 | 4.371 | (1.003) | 335722 | 20.2074 | 20.2074 | |
| | 57 Trichloroethene | 95 | 4.457 | 4.458 | (1.023) | 184474 | 20.6987 | 20.6987 | |
| | 58 Methyl cyclohexane | 83 | 4.475 | 4.472 | (0.703) | 258720 | 22.1718 | 22.1718 | |
| | 59 tert-Amyl Ethylether | 59 | 4.562 | 4.562 | (1.047) | 373098 | 21.2121 | 21.2121 | |
| | 60 Dibromomethane | 93 | 4.712 | 4.712 | (1.082) | 123979 | 21.6331 | 21.6331 | |
| | 61 1,2-Dichloropropane | 63 | 4.767 | 4.773 | (1.094) | 139911 | 22.0529 | 22.0529 | |
| | 62 Bromodichloromethane | 83 | 4.793 | 4.793 | (1.100) | 270386 | 22.1265 | 22.1265 | |
| | 63 Methyl methacrylate | 41 | 4.851 | 4.851 | (1.114) | 144649 | 19.2389 | 19.2389 | |
| | 65 2-Chloroethylvinyl ether | 63 | 5.115 | 5.115 | (1.174) | 46966 | 16.2417 | 16.2417 | |
| | 66 cis-1,3-Dichloropropene | 75 | 5.178 | 5.181 | (0.814) | 292485 | 20.5309 | 20.5309 | |
| | 67 Octane | 85 | 5.193 | 5.196 | (0.816) | 107161 | 23.4835 | 23.4835 | |
| $ | 68 Toluene-d8 | 98 | 5.309 | 5.309 | (0.834) | 980155 | 30.0629 | 30.0629 | |
| | 69 Toluene | 92 | 5.343 | 5.343 | (0.839) | 444853 | 22.2261 | 22.2261 | |
| | 70 Chloroacetonitrile | 75 | 5.381 | 5.375 | (0.845) | 59249 | 95.7414 | 95.7414 | |
| | 71 2-Nitropropane | 41 | 5.474 | 5.474 | (0.860) | 309379 | 91.7206 | 91.7206 | |
| | 72 1,1-Dichloro-2-propanone | 63 | 5.497 | 5.497 | (0.864) | 27009 | 95.7672 | 95.7672 | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.555 | 5.552 | (0.873) | 746471 | 102.519 | 102.519 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.592 | 5.592 | (0.879) | 312030 | 21.1812 | 21.1812 | |
| | 74 Tetrachloroethene | 164 | 5.610 | 5.607 | (0.881) | 186730 | 21.4609 | 21.4609 | |
| | 76 Ethyl methacrylate | 69 | 5.665 | 5.665 | (0.890) | 241205 | 20.0077 | 20.0077 | |

Data File: 2324062702.D Page 3
Report Date: 28-Jun-2024 11:18

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 77 1,1,2-Trichloroethane | 83 | 5.705 | 5.703 | (0.896) | 133097 | 22.4098 | 22.4098 | |
| | 78 Chlorodibromomethane | 129 | 5.839 | 5.839 | (0.917) | 242751 | 20.2685 | 20.2685 | |
| | 79 1,3-Dichloropropane | 76 | 5.899 | 5.899 | (0.927) | 282087 | 22.6407 | 22.6407 | |
| | 80 1,2-Dibromoethane | 107 | 6.021 | 6.021 | (0.946) | 190886 | 21.9537 | 21.9537 | |
| | 81 2-Hexanone | 43 | 6.119 | 6.117 | (0.961) | 549277 | 102.365 | 102.365 | |
| | 82 1-Chlorohexane | 91 | 6.334 | 6.334 | (0.995) | 231263 | 22.1336 | 22.1336 | |
| * | 83 Chlorobenzene-d5 | 82 | 6.365 | 6.366 | (1.000) | 409041 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | 6.383 | 6.380 | (1.003) | 271692 | 22.4272 | 22.4272 | |
| | 84 Chlorobenzene | 112 | 6.377 | 6.377 | (1.002) | 530312 | 23.0667 | 23.0667 | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | 6.412 | 6.415 | (1.007) | 219565 | 23.2807 | 23.2807 | |
| | 87 mp-Xylene | 106 | 6.481 | 6.481 | (1.018) | 678465 | 46.3219 | 46.3219 | |
| M | 120 1,3-Dichloropropene, Total | 75 | | | | 604515 | 41.7121 | 41.7121 | |
| | 88 o-Xylene | 106 | 6.803 | 6.800 | (1.069) | 337605 | 23.4485 | 23.4485 | |
| | 89 Styrene | 104 | 6.837 | 6.837 | (0.840) | 567868 | 22.1691 | 22.1691 | |
| | 90 Bromoform | 173 | 6.872 | 6.869 | (0.844) | 180021 | 19.9472 | 19.9472 | |
| | 91 Isopropylbenzene | 105 | 7.034 | 7.031 | (0.864) | 873434 | 23.9396 | 23.9396 | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.257 | 7.254 | (0.891) | 392189 | 29.4455 | 29.4455 | |
| M | 121 TOTAL XYLENES | 106 | | | | 1016070 | 69.7704 | 69.7704 | |
| | 94 n-Propylbenzene | 120 | 7.350 | 7.350 | (0.903) | 244401 | 22.5689 | 22.5689 | |
| | 93 Bromobenzene | 156 | 7.350 | 7.350 | (0.903) | 254276 | 22.2339 | 22.2339 | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | 7.388 | 7.388 | (0.907) | 216922 | 22.9360 | 22.9360 | |
| | 97 1,3,5-Trimethylbenzene | 105 | 7.495 | 7.495 | (0.920) | 751509 | 23.5377 | 23.5377 | |
| | 96 o-Chlorotoluene | 91 | 7.486 | 7.486 | (0.919) | 682330 | 23.1031 | 23.1031 | |
| | 98 1,2,3-Trichloropropane | 110 | 7.512 | 7.506 | (0.922) | 85588 | 21.3336 | 21.3336 | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | 7.527 | 7.527 | (0.924) | 71875 | 19.3634 | 19.3634(Q) | |
| | 101 p-Chlorotoluene | 91 | 7.613 | 7.611 | (0.935) | 631247 | 23.1167 | 23.1167 | |
| | 102 tert-Butylbenzene | 134 | 7.758 | 7.755 | (0.953) | 180131 | 22.5313 | 22.5313 | |
| | 103 Pentachloroethane | 117 | 7.778 | 7.781 | (0.955) | 158249 | 21.1079 | 21.1079(M) | MP |
| | 104 1,2,4-Trimethylbenzene | 105 | 7.807 | 7.807 | (0.959) | 762216 | 23.5056 | 23.5056 | |
| | 105 sec-Butylbenzene | 105 | 7.900 | 7.897 | (0.970) | 884967 | 23.2786 | 23.2786 | |
| | 106 p-Isopropyltoluene | 134 | 8.007 | 8.007 | (0.983) | 212602 | 23.1526 | 23.1526 | |
| | 107 1,3-Dichlorobenzene | 146 | 8.085 | 8.088 | (0.993) | 458702 | 22.7631 | 22.7631 | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 8.143 | 8.143 | (1.000) | 460396 | 30.0000 | | |
| | 109 1,4-Dichlorobenzene | 146 | 8.158 | 8.158 | (1.002) | 468509 | 22.6809 | 22.6809 | |
| | 111 n-Butylbenzene | 134 | 8.355 | 8.355 | (1.026) | 199585 | 23.4848 | 23.4848(Q) | |
| | 110 Benzyl Chloride | 126 | 8.346 | 8.349 | (1.025) | 105640 | 21.3095 | 21.3095(Q) | |
| | 112 Hexachloroethane | 117 | 8.494 | 8.497 | (1.043) | 150974 | 21.0038 | 21.0038 | |
| | 113 1,2-Dichlorobenzene | 146 | 8.508 | 8.505 | (1.045) | 452439 | 23.1282 | 23.1282 | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | 9.171 | 9.174 | (1.126) | 53666 | 20.5717 | 20.5717 | |
| | 115 Nitrobenzene | 77 | 9.643 | 9.640 | (1.184) | 191748 | 183.350 | 183.350 | |
| | 116 Hexachlorobutadiene | 225 | 9.718 | 9.718 | (1.193) | 162758 | 24.1866 | 24.1866 | |
| | 117 1,2,4-Trichlorobenzene | 180 | 9.747 | 9.744 | (1.197) | 341398 | 25.2227 | 25.2227 | |
| | 118 Naphthalene | 128 | 10.014 | 10.014 | (1.230) | 814520 | 21.5808 | 21.5808 | |
| | 119 1,2,3-Trichlorobenzene | 180 | 10.167 | 10.167 | (1.249) | 313547 | 23.4100 | 23.4100 | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.


Y (x10^6)
Min
-Dichlorodifluoromethane+
-Bromomethane+
-Pentane+
-Dichlorofluoromethane
-Ethyl Ether
-1,1-Dichloroethene+
-Iodomethane
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane
-Cyclohexane+
-Methyl acrylate+
-1,1,1-Trichloroethane+
-1,1-Dichloropropene+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-1,2-Dichloroethene, Total
-o-Xylene
-Bromoform
-Styrene
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,1,2,2-Tetrachloroethane
-p-Chlorotoluene
1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Total Xylenes
-Nitrobenzene
-Hexachlorobutadiene
1,2,4-Trichlorobenzene
-Naphthalene
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Date : 27-JUN-2024 09:34
Client ID: LCS for HBN 1235282
Sample Info: 3845269;;1;3;;LCS;1;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms23.i
Operator: ILY
Column diameter: 0.25
Page 1

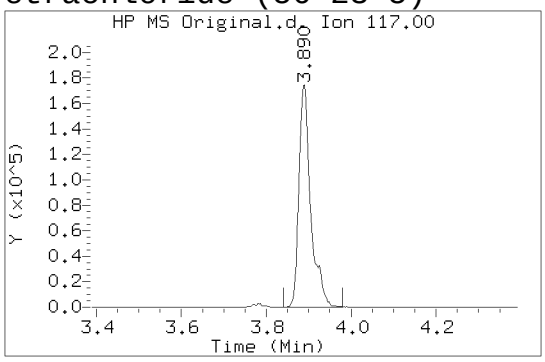
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Inj Date : 27-JUN-2024 09:34
InstruID : ms23.i
LabSampID : 3845269

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

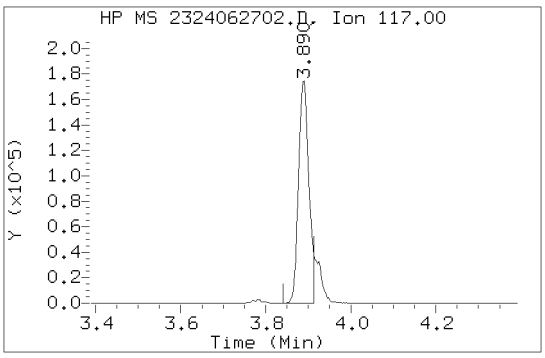
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117
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333525
HEIGHT
174592
27-Jun-2024
10:11



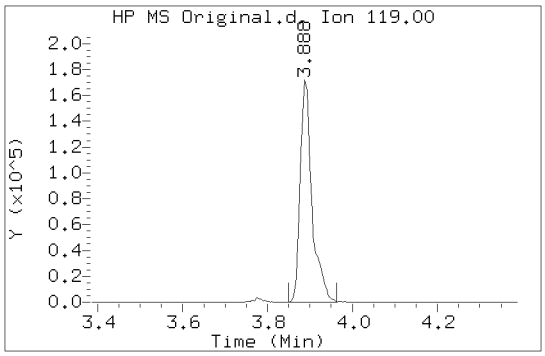

**AFTER**

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AREA
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HEIGHT
174592
28-Jun-2024
11:18



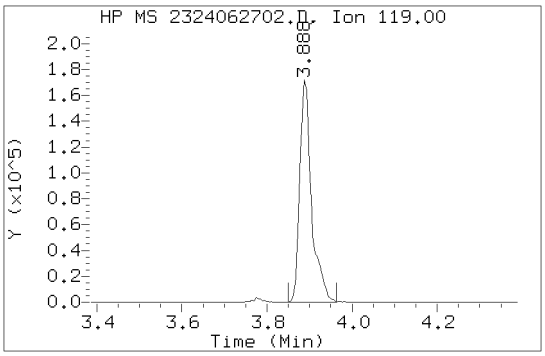

**BEFORE**

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AREA
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HEIGHT
171751
27-Jun-2024
10:11



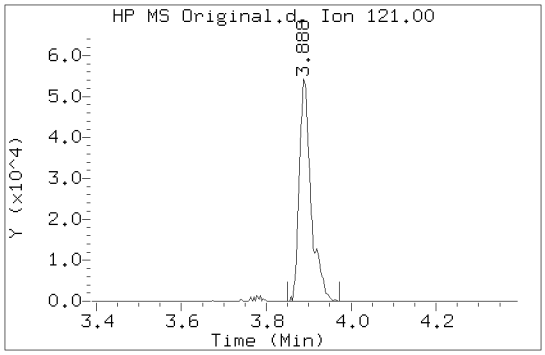

**AFTER**

MASS
119
AREA
325704
HEIGHT
171751
28-Jun-2024
11:18



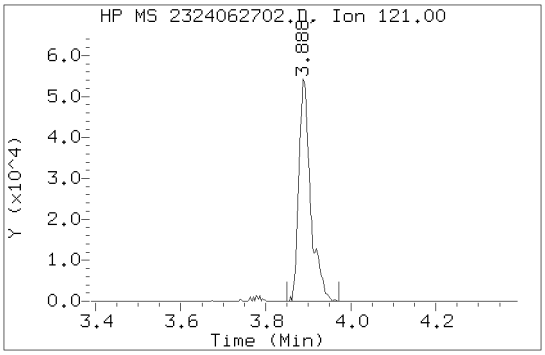

**BEFORE**

MASS
121
AREA
103412
HEIGHT
54312
27-Jun-2024
10:11




**AFTER**

MASS
121
AREA
103412
HEIGHT
54312
28-Jun-2024
11:18

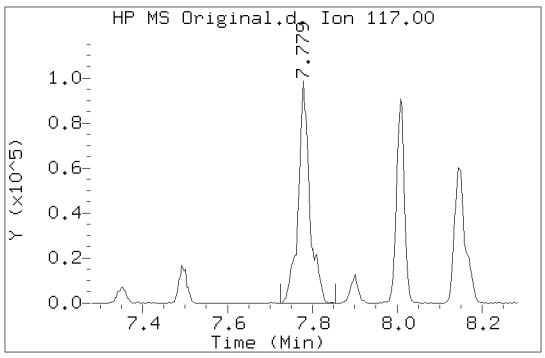



## Pentachloroethane (76-01-7)

Reason Code: MP

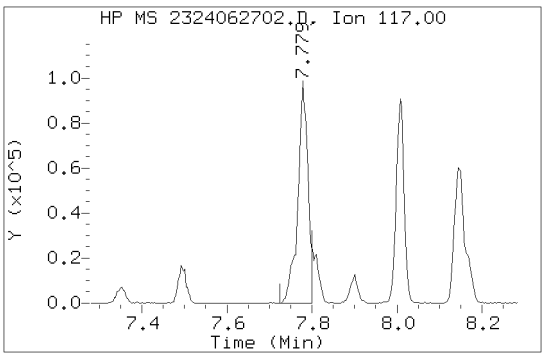
**BEFORE**

MASS
117
AREA
182039
HEIGHT
98680
27-Jun-2024
10:11




**AFTER**

MASS
117
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158249
HEIGHT
98680
28-Jun-2024
11:18



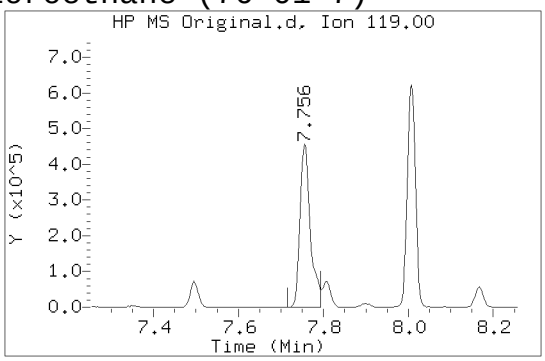
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Inj Date : 27-JUN-2024 09:34
InstruID : ms23.i
LabSampID : 3845269

## Pentachloroethane (76-01-7)

Reason Code: MP

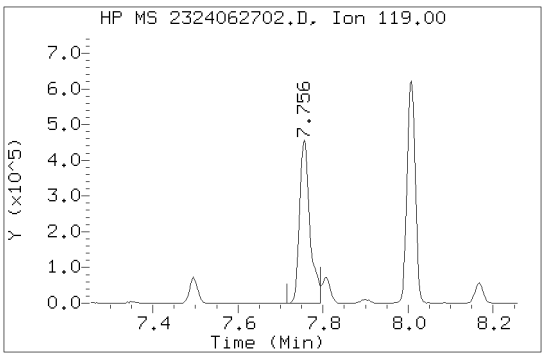
BEFORE

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AREA
766063
HEIGHT
457600
27-Jun-2024
10:11



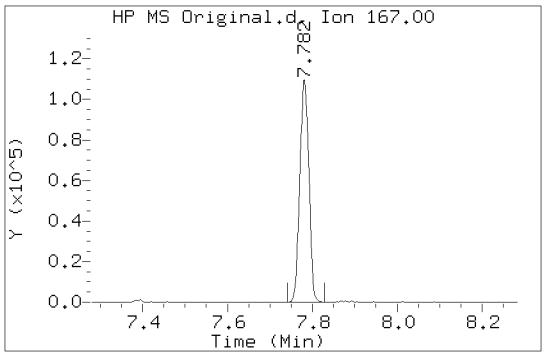

AFTER

MASS
119
AREA
766063
HEIGHT
457600
28-Jun-2024
11:18



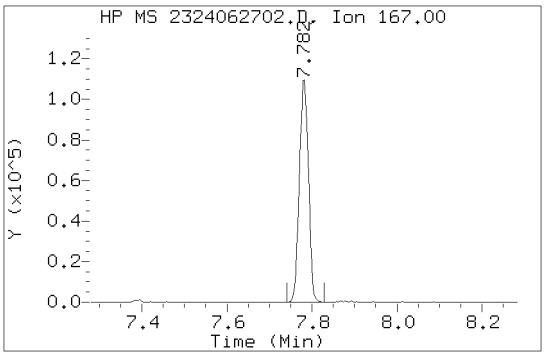

BEFORE

MASS
167
AREA
159905
HEIGHT
109592
27-Jun-2024
10:11




AFTER

MASS
167
AREA
159905
HEIGHT
109592
28-Jun-2024
11:18



# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 11:18
Client ID: LCS for HBN 1235282
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240627.b/232406270
Inj Date: 27-JUN-2024 09:34
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062705.D Page 1
Report Date: 28-Jun-2024 11:18

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062705.D
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Inj Date : 27-JUN-2024 10:53
Operator : ILY Inst ID: ms23.i
Smp Info : 3845268;;1;3;;MB;;
Misc Info : ZZ VOMS 73629 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\23-8260b09D.m
Meth Date : 27-Jun-2024 10:11 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | | |
| 2 Chloromethane | 50 | Compound Not Detected. | | | | | | |
| 3 Vinyl Chloride | 62 | Compound Not Detected. | | | | | | |
| 4 Bromomethane | 94 | Compound Not Detected. | | | | | | |
| 5 Chloroethane | 64 | Compound Not Detected. | | | | | | |
| 6 Pentane | 41 | Compound Not Detected. | | | | | | |
| 7 Trichlorofluoromethane | 101 | Compound Not Detected. | | | | | | |
| 8 Dichlorofluoromethane | 67 | Compound Not Detected. | | | | | | |
| 9 Ethyl Ether | 74 | Compound Not Detected. | | | | | | |
| 10 1,1-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 12 Carbon Disulfide | 76 | Compound Not Detected. | | | | | | |
| 11 Freon 113 | 101 | Compound Not Detected. | | | | | | |
| 13 Iodomethane | 127 | Compound Not Detected. | | | | | | |
| 14 Acrolein | 56 | Compound Not Detected. | | | | | | |
| 16 3-Chloro-1-propene | 41 | Compound Not Detected. | | | | | | |
| 15 Isopropyl Alcohol | 45 | Compound Not Detected. | | | | | | |
| 17 Methylene Chloride | 84 | Compound Not Detected. | | | | | | |
| 18 Acetone | 58 | Compound Not Detected. | | | | | | |
| 19 Methyl acetate | 74 | Compound Not Detected. | | | | | | |
| 20 trans-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 21 Hexane | 57 | Compound Not Detected. | | | | | | |
| 22 Methyl t-Butyl Ether | 73 | Compound Not Detected. | | | | | | |

Data File: 2324062705.D Page 2
Report Date: 28-Jun-2024 11:18

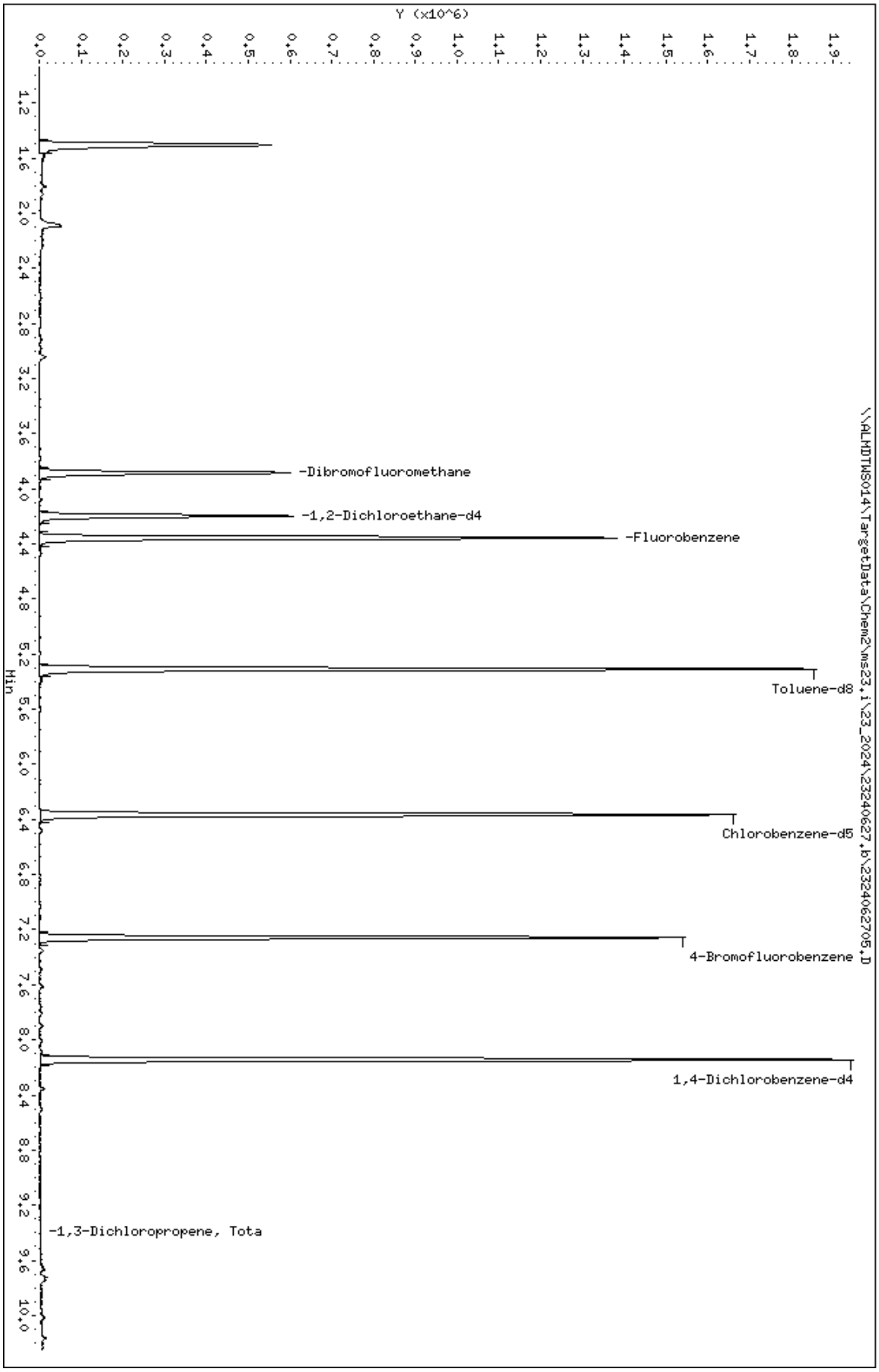
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 23 tert.- Butyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| | 24 Acetonitrile | 41 | Compound Not Detected. | | | | | | |
| | 25 Diisopropyl ether | 45 | Compound Not Detected. | | | | | | |
| | 26 Chloroprene | 53 | Compound Not Detected. | | | | | | |
| | 27 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | | |
| | 28 Acrylonitrile | 53 | Compound Not Detected. | | | | | | |
| | 30 n-Propanol | 41 | Compound Not Detected. | | | | | | |
| | 29 Ethyl tert-butyl ether | 59 | Compound Not Detected. | | | | | | |
| | 31 Vinyl acetate | 86 | Compound Not Detected. | | | | | | |
| | 32 cis-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| | 33 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | | |
| M | 100 1,2-Dichloroethene, Total | 61 | Compound Not Detected. | | | | | | |
| | 34 Bromochloromethane | 128 | Compound Not Detected. | | | | | | |
| | 35 Cyclohexane | 84 | Compound Not Detected. | | | | | | |
| | 36 Chloroform | 83 | Compound Not Detected. | | | | | | |
| | 37 Ethyl acetate | 43 | Compound Not Detected. | | | | | | |
| | 38 Methyl acrylate | 55 | Compound Not Detected. | | | | | | |
| | 39 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | | |
| | 40 Tetrahydrofuran | 42 | Compound Not Detected. | | | | | | |
| $ | 41 Dibromofluoromethane | 113 | 3.884 | 3.881 | (0.892) | 280197 | 29.0572 | 29.0572 | |
| | 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | | |
| | 43 2-Butanone | 72 | Compound Not Detected. | | | | | | |
| | 44 1,1-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 45 1-Chlorobutane | 41 | Compound Not Detected. | | | | | | |
| | 46 Heptane | 71 | Compound Not Detected. | | | | | | |
| | 48 Propionitrile | 54 | Compound Not Detected. | | | | | | |
| | 47 Benzene | 78 | Compound Not Detected. | | | | | | |
| | 49 Methacrylonitrile | 67 | Compound Not Detected. | | | | | | |
| | 50 tert-amyl methyl Ether | 73 | Compound Not Detected. | | | | | | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.197 | 4.197 | (0.963) | 361539 | 29.2868 | 29.2868 | |
| | 54 Isobutyl alcohol | 42 | Compound Not Detected. | | | | | | |
| | 52 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | | |
| | 53 tert-Amyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| * | 55 Fluorobenzene | 96 | 4.356 | 4.353 | (1.000) | 981269 | 30.0000 | | |
| | 56 Diisobutylene | 57 | Compound Not Detected. | | | | | | |
| | 57 Trichloroethene | 95 | Compound Not Detected. | | | | | | |
| | 58 Methyl cyclohexane | 83 | Compound Not Detected. | | | | | | |
| | 59 tert-Amyl Ethylether | 59 | Compound Not Detected. | | | | | | |
| | 60 Dibromomethane | 93 | Compound Not Detected. | | | | | | |
| | 61 1,2-Dichloropropane | 63 | Compound Not Detected. | | | | | | |
| | 62 Bromodichloromethane | 83 | Compound Not Detected. | | | | | | |
| | 63 Methyl methacrylate | 41 | Compound Not Detected. | | | | | | |
| | 65 2-Chloroethylvinyl ether | 63 | Compound Not Detected. | | | | | | |
| | 66 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 67 Octane | 85 | Compound Not Detected. | | | | | | |
| $ | 68 Toluene-d8 | 98 | 5.309 | 5.309 | (0.834) | 1016748 | 29.4475 | 29.4475 | |
| | 69 Toluene | 92 | Compound Not Detected. | | | | | | |
| | 70 Chloroacetonitrile | 75 | Compound Not Detected. | | | | | | |
| | 71 2-Nitropropane | 41 | Compound Not Detected. | | | | | | |
| | 72 1,1-Dichloro-2-propanone | 63 | Compound Not Detected. | | | | | | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | Compound Not Detected. | | | | | | |
| | 75 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 74 Tetrachloroethene | 164 | Compound Not Detected. | | | | | | |
| | 76 Ethyl methacrylate | 69 | Compound Not Detected. | | | | | | |

Data File: 2324062705.D Page 3
Report Date: 28-Jun-2024 11:18

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 77 1,1,2-Trichloroethane | 83 | Compound Not Detected. | | | | | | |
| | 78 Chlorodibromomethane | 129 | Compound Not Detected. | | | | | | |
| | 79 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | | |
| | 80 1,2-Dibromoethane | 107 | Compound Not Detected. | | | | | | |
| | 81 2-Hexanone | 43 | Compound Not Detected. | | | | | | |
| | 82 1-Chlorohexane | 91 | Compound Not Detected. | | | | | | |
| * | 83 Chlorobenzene-d5 | 82 | 6.365 | 6.366 | (1.000) | 433179 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | Compound Not Detected. | | | | | | |
| | 84 Chlorobenzene | 112 | Compound Not Detected. | | | | | | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | | |
| | 87 mp-Xylene | 106 | Compound Not Detected. | | | | | | |
| M | 120 1,3-Dichloropropene, Total | 75 | Compound Not Detected. | | | | | | |
| | 88 o-Xylene | 106 | Compound Not Detected. | | | | | | |
| | 89 Styrene | 104 | Compound Not Detected. | | | | | | |
| | 90 Bromoform | 173 | Compound Not Detected. | | | | | | |
| | 91 Isopropylbenzene | 105 | Compound Not Detected. | | | | | | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.257 | 7.254 | (0.891) | 403255 | 29.1059 | 29.1059 | |
| M | 121 TOTAL XYLENES | 106 | Compound Not Detected. | | | | | | |
| | 94 n-Propylbenzene | 120 | Compound Not Detected. | | | | | | |
| | 93 Bromobenzene | 156 | Compound Not Detected. | | | | | | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | | |
| | 97 1,3,5-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 96 o-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 98 1,2,3-Trichloropropane | 110 | Compound Not Detected. | | | | | | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | Compound Not Detected. | | | | | | |
| | 101 p-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 102 tert-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 103 Pentachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 104 1,2,4-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 105 sec-Butylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 106 p-Isopropyltoluene | 134 | Compound Not Detected. | | | | | | |
| | 107 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 8.143 | 8.143 | (1.000) | 478909 | 30.0000 | (Q) | |
| | 109 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 111 n-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 110 Benzyl Chloride | 126 | Compound Not Detected. | | | | | | |
| | 112 Hexachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 113 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | Compound Not Detected. | | | | | | |
| | 115 Nitrobenzene | 77 | Compound Not Detected. | | | | | | |
| | 116 Hexachlorobutadiene | 225 | Compound Not Detected. | | | | | | |
| | 117 1,2,4-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |
| | 118 Naphthalene | 128 | Compound Not Detected. | | | | | | |
| | 119 1,2,3-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.




Data File: \\ALHDTWS014\TargetData\Chem2\ms23,i\23_2024\23240627,b\23240627D5,D
Date : 27-JUN-2024 10:53
Client ID: MB for HBN 1235282
Sample Info: 3845268;;1;3;;MB;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms23,i
Operator: ILY
Column diameter: 0.25

Page 1

Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062705.D
Inj Date  : 27-JUN-2024 10:53
InstruID  : ms23.i
LabSampID : 3845268

NO MANUAL INTEGRATIONS

# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 11:18
Client ID: MB for HBN 1235282
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240627.b/232406270
Inj Date: 27-JUN-2024 10:53
Operator: ILY

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1,2-Dichloroethane
1,2-Dichloropropane
Ethyl methacrylate
Methacrylonitrile
2-Nitropropane
1-Chlorohexane
1,3-Dichloropropane
cis-1,3-Dichloropropene
Heptane
Methyl methacrylate

Data File: 2324062720.D Page 1
Report Date: 28-Jun-2024 11:37

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062720.D
Lab Smp Id: 3366027010 Client Smp ID: HS24061196-10
Inj Date : 27-JUN-2024 17:29
Operator : ILY Inst ID: ms23.i
Smp Info : 3366027010;;1;;;;;
Misc Info : ZZ VOMS 73629 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\23-8260b09D.m
Meth Date : 27-Jun-2024 10:11 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | | |
| 2 Chloromethane | 50 | 1.788 | 1.788 | (0.411) | 2761 | 0.32514 | 0.325140(a) | |
| 3 Vinyl Chloride | 62 | Compound Not Detected. | | | | | | |
| 4 Bromomethane | 94 | Compound Not Detected. | | | | | | |
| 5 Chloroethane | 64 | Compound Not Detected. | | | | | | |
| 6 Pentane | 41 | Compound Not Detected. | | | | | | |
| 7 Trichlorofluoromethane | 101 | Compound Not Detected. | | | | | | |
| 8 Dichlorofluoromethane | 67 | Compound Not Detected. | | | | | | |
| 9 Ethyl Ether | 74 | Compound Not Detected. | | | | | | |
| 10 1,1-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 12 Carbon Disulfide | 76 | Compound Not Detected. | | | | | | |
| 11 Freon 113 | 101 | Compound Not Detected. | | | | | | |
| 13 Iodomethane | 127 | Compound Not Detected. | | | | | | |
| 14 Acrolein | 56 | Compound Not Detected. | | | | | | |
| 16 3-Chloro-1-propene | 41 | Compound Not Detected. | | | | | | |
| 15 Isopropyl Alcohol | 45 | Compound Not Detected. | | | | | | |
| 17 Methylene Chloride | 84 | Compound Not Detected. | | | | | | |
| 18 Acetone | 58 | Compound Not Detected. | | | | | | |
| 19 Methyl acetate | 74 | Compound Not Detected. | | | | | | |
| 20 trans-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 21 Hexane | 57 | Compound Not Detected. | | | | | | |
| 22 Methyl t-Butyl Ether | 73 | Compound Not Detected. | | | | | | |

Data File: 2324062720.D Page 2
Report Date: 28-Jun-2024 11:37

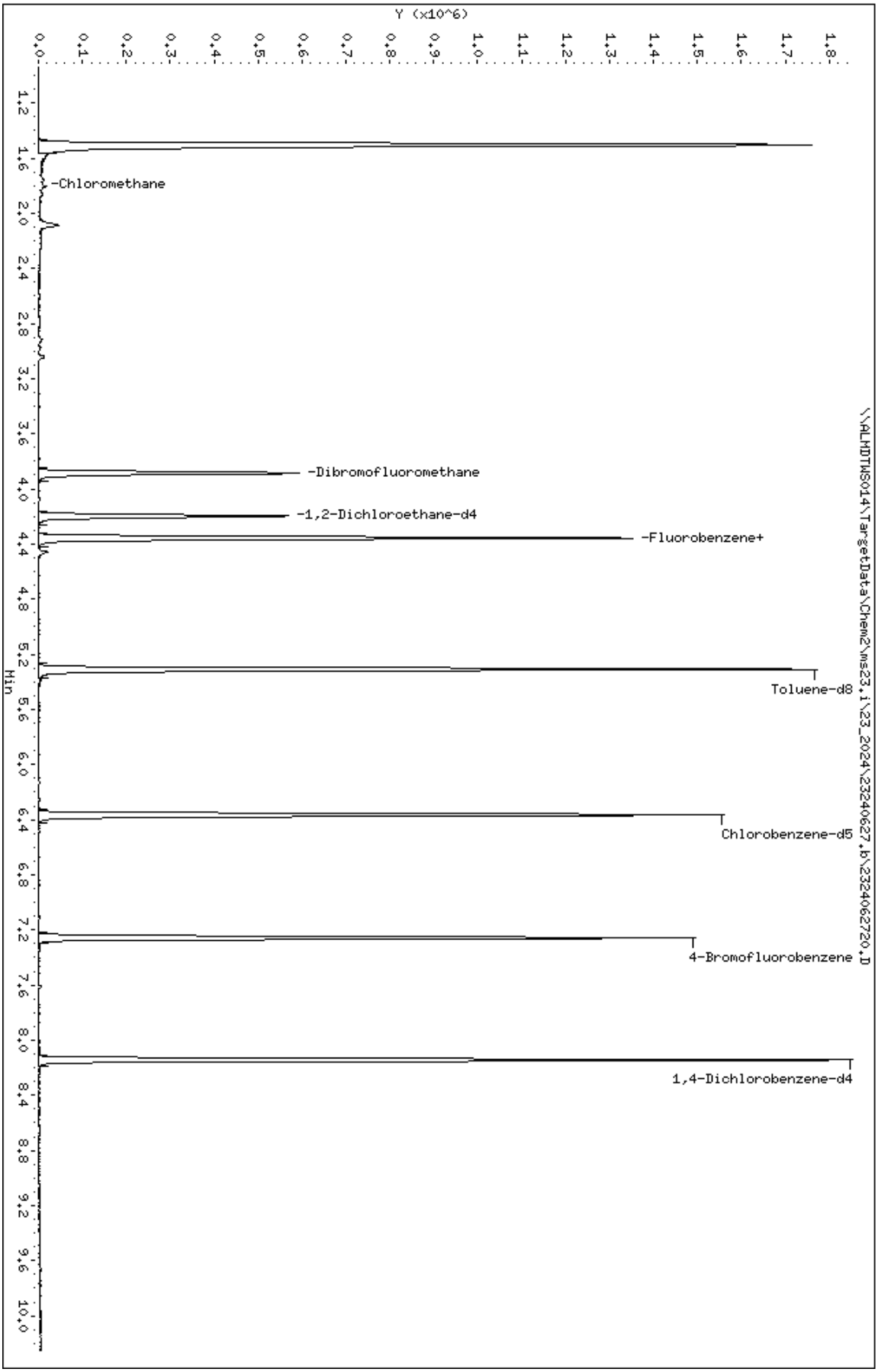
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 23 tert.- Butyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| | 24 Acetonitrile | 41 | Compound Not Detected. | | | | | | |
| | 25 Diisopropyl ether | 45 | Compound Not Detected. | | | | | | |
| | 26 Chloroprene | 53 | Compound Not Detected. | | | | | | |
| | 27 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | | |
| | 28 Acrylonitrile | 53 | Compound Not Detected. | | | | | | |
| | 30 n-Propanol | 41 | Compound Not Detected. | | | | | | |
| | 29 Ethyl tert-butyl ether | 59 | Compound Not Detected. | | | | | | |
| | 31 Vinyl acetate | 86 | Compound Not Detected. | | | | | | |
| | 32 cis-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| | 33 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | | |
| M | 100 1,2-Dichloroethene, Total | 61 | Compound Not Detected. | | | | | | |
| | 34 Bromochloromethane | 128 | Compound Not Detected. | | | | | | |
| | 35 Cyclohexane | 84 | Compound Not Detected. | | | | | | |
| | 36 Chloroform | 83 | Compound Not Detected. | | | | | | |
| | 37 Ethyl acetate | 43 | Compound Not Detected. | | | | | | |
| | 38 Methyl acrylate | 55 | Compound Not Detected. | | | | | | |
| | 39 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | | |
| | 40 Tetrahydrofuran | 42 | Compound Not Detected. | | | | | | |
| $ | 41 Dibromofluoromethane | 113 | 3.887 | 3.881 | (0.892) | 272817 | 29.3003 | 29.3003 | |
| | 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | | |
| | 43 2-Butanone | 72 | Compound Not Detected. | | | | | | |
| | 44 1,1-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 45 1-Chlorobutane | 41 | Compound Not Detected. | | | | | | |
| | 46 Heptane | 71 | Compound Not Detected. | | | | | | |
| | 48 Propionitrile | 54 | Compound Not Detected. | | | | | | |
| | 47 Benzene | 78 | Compound Not Detected. | | | | | | |
| | 49 Methacrylonitrile | 67 | Compound Not Detected. | | | | | | |
| | 50 tert-amyl methyl Ether | 73 | Compound Not Detected. | | | | | | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.194 | 4.197 | (0.963) | 354524 | 29.7421 | 29.7421 | |
| | 54 Isobutyl alcohol | 42 | Compound Not Detected. | | | | | | |
| | 52 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | | |
| | 53 tert-Amyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| * | 55 Fluorobenzene | 96 | 4.356 | 4.353 | (1.000) | 947497 | 30.0000 | | |
| | 56 Diisobutylene | 57 | Compound Not Detected. | | | | | | |
| | 57 Trichloroethene | 95 | 4.460 | 4.458 | (1.024) | 4766 | 0.53939 | 0.539388(a) | |
| | 58 Methyl cyclohexane | 83 | Compound Not Detected. | | | | | | |
| | 59 tert-Amyl Ethylether | 59 | Compound Not Detected. | | | | | | |
| | 60 Dibromomethane | 93 | Compound Not Detected. | | | | | | |
| | 61 1,2-Dichloropropane | 63 | Compound Not Detected. | | | | | | |
| | 62 Bromodichloromethane | 83 | Compound Not Detected. | | | | | | |
| | 63 Methyl methacrylate | 41 | Compound Not Detected. | | | | | | |
| | 65 2-Chloroethylvinyl ether | 63 | Compound Not Detected. | | | | | | |
| | 66 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 67 Octane | 85 | Compound Not Detected. | | | | | | |
| $ | 68 Toluene-d8 | 98 | 5.309 | 5.309 | (0.834) | 963755 | 29.3772 | 29.3772 | |
| | 69 Toluene | 92 | Compound Not Detected. | | | | | | |
| | 70 Chloroacetonitrile | 75 | Compound Not Detected. | | | | | | |
| | 71 2-Nitropropane | 41 | Compound Not Detected. | | | | | | |
| | 72 1,1-Dichloro-2-propanone | 63 | Compound Not Detected. | | | | | | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | Compound Not Detected. | | | | | | |
| | 75 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 74 Tetrachloroethene | 164 | Compound Not Detected. | | | | | | |
| | 76 Ethyl methacrylate | 69 | Compound Not Detected. | | | | | | |

Data File: 2324062720.D Page 3
Report Date: 28-Jun-2024 11:37

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 77 1,1,2-Trichloroethane | 83 | Compound Not Detected. | | | | | | |
| | 78 Chlorodibromomethane | 129 | Compound Not Detected. | | | | | | |
| | 79 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | | |
| | 80 1,2-Dibromoethane | 107 | Compound Not Detected. | | | | | | |
| | 81 2-Hexanone | 43 | Compound Not Detected. | | | | | | |
| | 82 1-Chlorohexane | 91 | Compound Not Detected. | | | | | | |
| * | 83 Chlorobenzene-d5 | 82 | 6.363 | 6.366 | (1.000) | 411584 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | Compound Not Detected. | | | | | | |
| | 84 Chlorobenzene | 112 | Compound Not Detected. | | | | | | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | | |
| | 87 mp-Xylene | 106 | Compound Not Detected. | | | | | | |
| M | 120 1,3-Dichloropropene, Total | 75 | Compound Not Detected. | | | | | | |
| | 88 o-Xylene | 106 | Compound Not Detected. | | | | | | |
| | 89 Styrene | 104 | Compound Not Detected. | | | | | | |
| | 90 Bromoform | 173 | Compound Not Detected. | | | | | | |
| | 91 Isopropylbenzene | 105 | Compound Not Detected. | | | | | | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.257 | 7.254 | (0.891) | 382768 | 29.1247 | 29.1247 | |
| M | 121 TOTAL XYLENES | 106 | Compound Not Detected. | | | | | | |
| | 94 n-Propylbenzene | 120 | Compound Not Detected. | | | | | | |
| | 93 Bromobenzene | 156 | Compound Not Detected. | | | | | | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | | |
| | 97 1,3,5-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 96 o-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 98 1,2,3-Trichloropropane | 110 | Compound Not Detected. | | | | | | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | Compound Not Detected. | | | | | | |
| | 101 p-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 102 tert-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 103 Pentachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 104 1,2,4-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 105 sec-Butylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 106 p-Isopropyltoluene | 134 | Compound Not Detected. | | | | | | |
| | 107 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 8.143 | 8.143 | (1.000) | 454285 | 30.0000 | | (Q) |
| | 109 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 111 n-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 110 Benzyl Chloride | 126 | Compound Not Detected. | | | | | | |
| | 112 Hexachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 113 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | Compound Not Detected. | | | | | | |
| | 115 Nitrobenzene | 77 | Compound Not Detected. | | | | | | |
| | 116 Hexachlorobutadiene | 225 | Compound Not Detected. | | | | | | |
| | 117 1,2,4-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |
| | 118 Naphthalene | 128 | Compound Not Detected. | | | | | | |
| | 119 1,2,3-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.




Data File: \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062720.D
Date : 27-JUN-2024 17:29
Client ID: HS24061196-10
Sample Info: 33660270101;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms23.i
Operator: ILY
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062720.D Page 2

Date : 27-JUN-2024 17:29

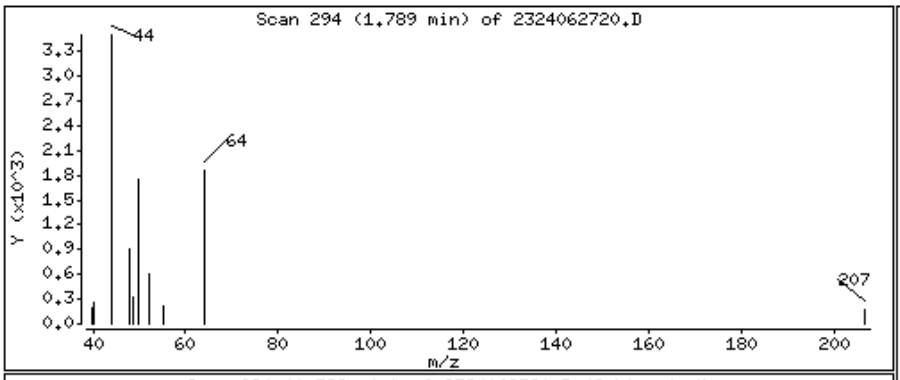
Client ID: HS24061196-10 Instrument: ms23.i

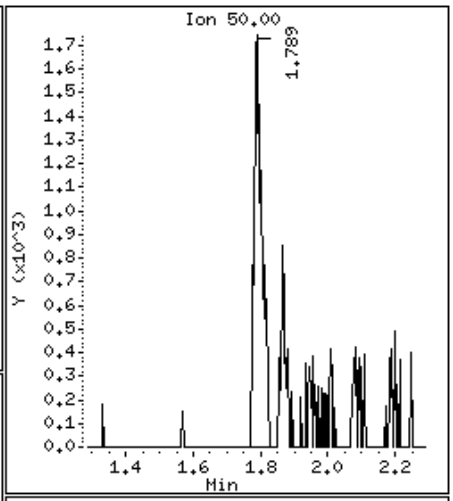
Sample Info: 3366027010;;1;;;;;

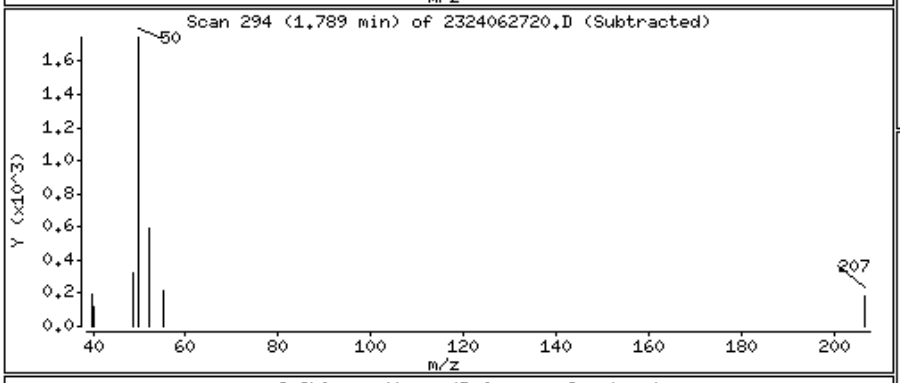
Purge Volume: 5.0 Operator: ILY

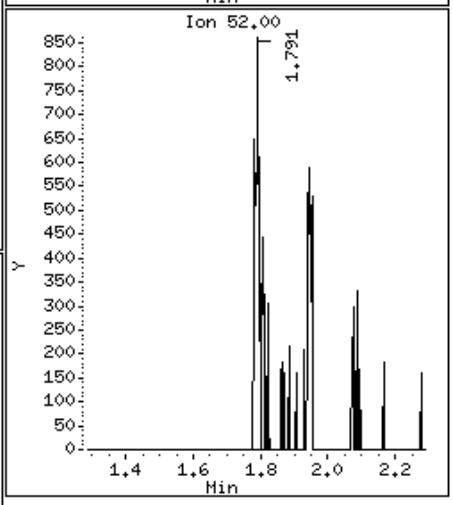
Column phase: DB-VRX Column diameter: 0.25

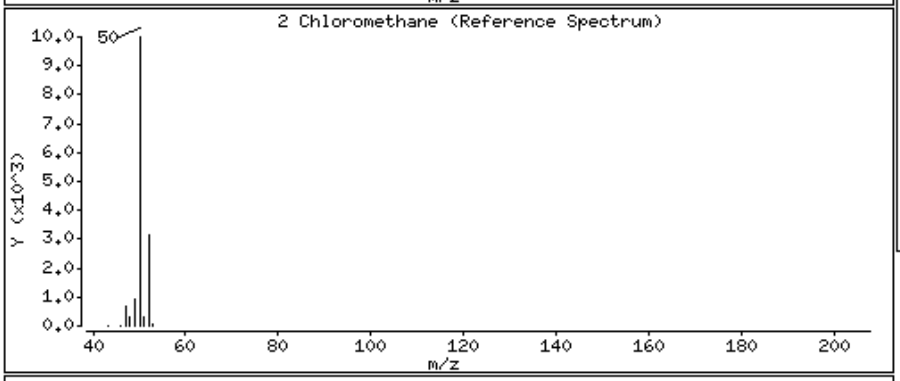
2 Chloromethane Concentration: 0.325140 ug/L

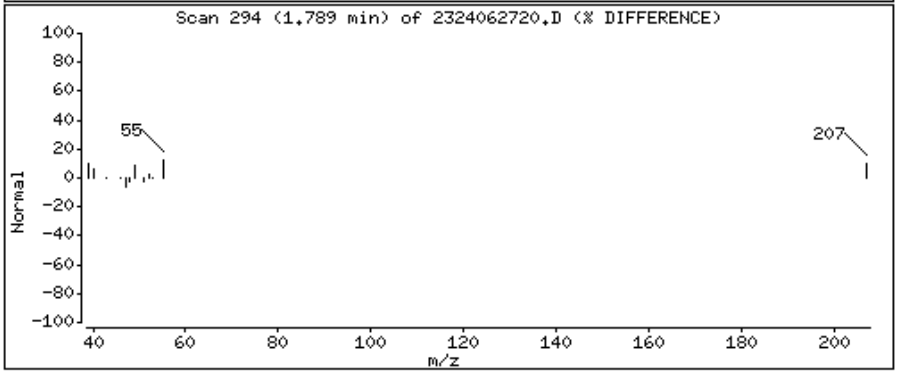


Data File: \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062720.D Page 3

Date : 27-JUN-2024 17:29

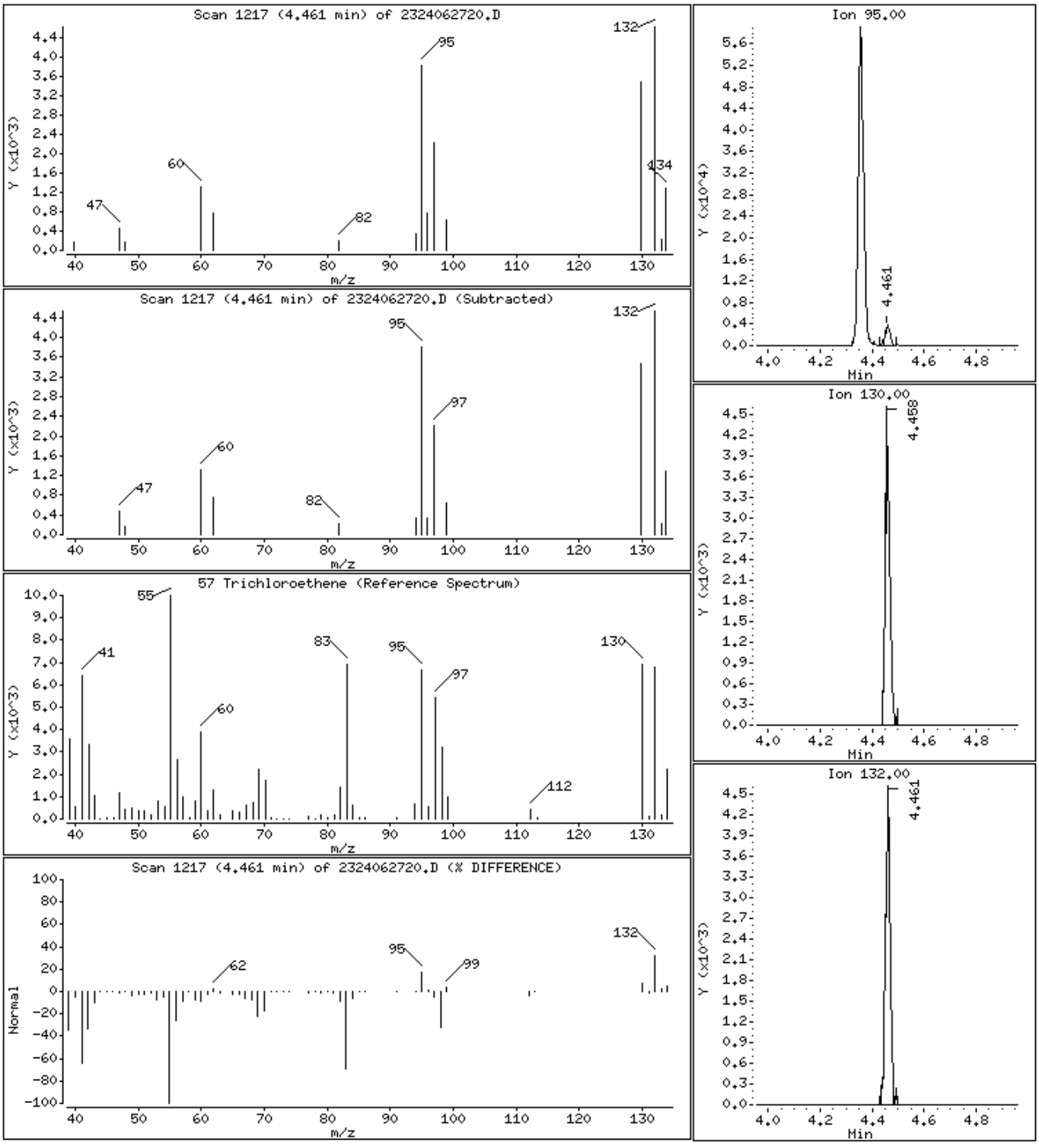
Client ID: HS24061196-10 Instrument: ms23.i

Sample Info: 3366027010;;1;;;;;

Purge Volume: 5.0 Operator: ILY

Column phase: DB-VRX Column diameter: 0.25

57 Trichloroethene Concentration: 0.539388 ug/L



Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062720.D
Inj Date  : 27-JUN-2024 17:29
InstruID  : ms23.i
LabSampID : 3366027010

NO MANUAL INTEGRATIONS

# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 11:37
Client ID: HS24061196-10
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240627.b/232406272
Inj Date: 27-JUN-2024 17:29
Operator: ILY

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1,2-Dichloroethane
2-Hexanone
2-Nitropropane
Chloroethane
Ethyl methacrylate
Methyl methacrylate
Styrene

Data File: 2324062725.D Page 1
Report Date: 28-Jun-2024 11:43

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062725.D
Lab Smp Id: 3845270 Client Smp ID: 3366027010MS
Inj Date : 27-JUN-2024 19:08
Operator : ILY Inst ID: ms23.i
Smp Info : 3845270;;1;3;;MS;1;
Misc Info : ZZ VOMS 73629 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\23-8260b09D.m
Meth Date : 27-Jun-2024 10:11 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 25 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.629 | 1.632 | (0.374) | 286297 | 22.3582 | 22.3582 | |
| 2 Chloromethane | 50 | 1.785 | 1.788 | (0.410) | 165536 | 21.1592 | 21.1592 | |
| 3 Vinyl Chloride | 62 | 1.849 | 1.852 | (0.424) | 174400 | 22.6294 | 22.6294 | |
| 4 Bromomethane | 94 | 2.072 | 2.075 | (0.476) | 129954 | 22.2919 | 22.2919 | |
| 5 Chloroethane | 64 | 2.138 | 2.150 | (0.491) | 100919 | 23.7982 | 23.7982 | |
| 6 Pentane | 41 | 2.234 | 2.245 | (0.513) | 99701 | 19.2294 | 19.2294 | |
| 7 Trichlorofluoromethane | 101 | 2.240 | 2.251 | (0.514) | 369699 | 22.5321 | 22.5321 | |
| 8 Dichlorofluoromethane | 67 | 2.271 | 2.280 | (0.521) | 334477 | 24.1490 | 24.1490 | |
| 9 Ethyl Ether | 74 | 2.439 | 2.439 | (0.560) | 96611 | 22.3419 | 22.3419 | |
| 10 1,1-Dichloroethene | 61 | 2.575 | 2.578 | (0.591) | 237659 | 24.2969 | 24.2969 | |
| 12 Carbon Disulfide | 76 | 2.613 | 2.619 | (0.600) | 436821 | 23.0233 | 23.0233 | |
| 11 Freon 113 | 101 | 2.587 | 2.593 | (0.594) | 168174 | 25.2756 | 25.2756 | |
| 13 Iodomethane | 127 | 2.677 | 2.677 | (0.615) | 56808 | 15.5779 | 15.5779 | |
| 14 Acrolein | 56 | 2.758 | 2.761 | (0.633) | 201176 | 163.568 | 163.568 | |
| 16 3-Chloro-1-propene | 41 | 2.848 | 2.851 | (0.654) | 170912 | 22.9954 | 22.9954 | |
| 15 Isopropyl Alcohol | 45 | 2.836 | 2.825 | (0.651) | 47604 | 92.5301 | 92.5301 | |
| 17 Methylene Chloride | 84 | 2.908 | 2.909 | (0.668) | 164077 | 23.1480 | 23.1480 | |
| 18 Acetone | 58 | 2.920 | 2.920 | (0.670) | 70789 | 108.336 | 108.336 | |
| 19 Methyl acetate | 74 | 2.981 | 2.981 | (0.684) | 27456 | 16.6909 | 16.6909 | |
| 20 trans-1,2-Dichloroethene | 61 | 3.004 | 3.004 | (0.690) | 212327 | 23.6773 | 23.6773 | |
| 21 Hexane | 57 | 3.042 | 3.045 | (0.698) | 284150 | 21.3661 | 21.3661 | |
| 22 Methyl t-Butyl Ether | 73 | 3.047 | 3.047 | (0.700) | 548117 | 22.8985 | 22.8985 | |

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| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 23 tert.- Butyl Alcohol | 59 | 3.073 | 3.065 | (0.706) | 101240 | 101.527 | 101.527 | |
| | 24 Acetonitrile | 41 | 3.184 | 3.184 | (0.731) | 76004 | 100.995 | 100.995 | |
| | 25 Diisopropyl ether | 45 | 3.244 | 3.244 | (0.745) | 378661 | 22.8696 | 22.8696 | |
| | 26 Chloroprene | 53 | 3.334 | 3.334 | (0.765) | 206666 | 18.0673 | 18.0673 | |
| | 27 1,1-Dichloroethane | 63 | 3.343 | 3.346 | (0.767) | 270268 | 21.3388 | 21.3388 | |
| | 28 Acrylonitrile | 53 | 3.354 | 3.354 | (0.770) | 331732 | 101.078 | 101.078 | |
| | 30 n-Propanol | 41 | 3.447 | 3.447 | (0.791) | 88038 | 227.207 | 227.207 | |
| | 29 Ethyl tert-butyl ether | 59 | 3.447 | 3.447 | (0.791) | 513009 | 21.6081 | 21.6081 | |
| | 31 Vinyl acetate | 86 | 3.447 | 3.447 | (0.791) | 33892 | 16.1545 | 16.1545(Q) | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.641 | 3.641 | (0.836) | 219758 | 23.6849 | 23.6849 | |
| | 33 2,2-Dichloropropane | 77 | 3.708 | 3.708 | (0.851) | 275056 | 22.4612 | 22.4612 | |
| M | 100 1,2-Dichloroethene, Total | 61 | | | | 432085 | 47.3622 | 47.3622 | |
| | 34 Bromochloromethane | 128 | 3.754 | 3.757 | (0.862) | 103578 | 23.1222 | 23.1222 | |
| | 35 Cyclohexane | 84 | 3.780 | 3.780 | (0.868) | 252101 | 24.2255 | 24.2255 | |
| | 36 Chloroform | 83 | 3.777 | 3.780 | (0.867) | 348403 | 22.3863 | 22.3863 | |
| | 37 Ethyl acetate | 43 | 3.818 | 3.815 | (0.876) | 123756 | 18.0928 | 18.0928 | |
| | 38 Methyl acrylate | 55 | 3.835 | 3.832 | (0.880) | 150103 | 20.7838 | 20.7838 | |
| | 39 Carbon Tetrachloride | 117 | 3.890 | 3.890 | (0.893) | 315468 | 22.4635 | 22.4635(M) | MP |
| | 40 Tetrahydrofuran | 42 | 3.884 | 3.878 | (0.892) | 195699 | 108.260 | 108.260 | |
| $ | 41 Dibromofluoromethane | 113 | 3.884 | 3.881 | (0.892) | 262300 | 30.5774 | 30.5774 | |
| | 42 1,1,1-Trichloroethane | 97 | 3.922 | 3.922 | (0.900) | 351237 | 24.6918 | 24.6918 | |
| | 43 2-Butanone | 72 | 3.939 | 3.936 | (0.904) | 104098 | 103.538 | 103.538 | |
| | 44 1,1-Dichloropropene | 75 | 3.988 | 3.986 | (0.916) | 240116 | 23.7138 | 23.7138 | |
| | 45 1-Chlorobutane | 41 | 4.006 | 4.006 | (0.920) | 153017 | 23.2642 | 23.2642 | |
| | 46 Heptane | 71 | 4.078 | 4.081 | (0.936) | 105158 | 22.4762 | 22.4762 | |
| | 48 Propionitrile | 54 | 4.110 | 4.113 | (0.944) | 119003 | 101.656 | 101.656 | |
| | 47 Benzene | 78 | 4.127 | 4.130 | (0.947) | 620751 | 23.3594 | 23.3594 | |
| | 49 Methacrylonitrile | 67 | 4.127 | 4.127 | (0.947) | 70666 | 21.7762 | 21.7762 | |
| | 50 tert-amyl methyl Ether | 73 | 4.162 | 4.162 | (0.955) | 518493 | 21.5970 | 21.5970 | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.197 | 4.197 | (0.963) | 348109 | 31.6989 | 31.6989 | |
| | 54 Isobutyl alcohol | 42 | 4.171 | 4.168 | (0.957) | 33135 | 173.464 | 173.464(Q) | |
| | 52 1,2-Dichloroethane | 62 | 4.235 | 4.235 | (0.972) | 285341 | 22.7578 | 22.7578 | |
| | 53 tert-Amyl Alcohol | 59 | 4.243 | 4.237 | (0.974) | 76111 | 102.424 | 102.424 | |
| * | 55 Fluorobenzene | 96 | 4.356 | 4.353 | (1.000) | 872922 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.368 | 4.371 | (1.003) | 250627 | 16.2024 | 16.2024 | |
| | 57 Trichloroethene | 95 | 4.457 | 4.458 | (1.023) | 188842 | 23.1979 | 23.1979 | |
| | 58 Methyl cyclohexane | 83 | 4.475 | 4.472 | (0.703) | 259151 | 23.5151 | 23.5151 | |
| | 59 tert-Amyl Ethylether | 59 | 4.559 | 4.562 | (1.047) | 352146 | 21.9192 | 21.9192 | |
| | 60 Dibromomethane | 93 | 4.712 | 4.712 | (1.082) | 119793 | 22.8846 | 22.8846 | |
| | 61 1,2-Dichloropropane | 63 | 4.773 | 4.773 | (1.096) | 135579 | 23.3963 | 23.3963 | |
| | 62 Bromodichloromethane | 83 | 4.790 | 4.793 | (1.100) | 261808 | 23.4560 | 23.4560 | |
| | 63 Methyl methacrylate | 41 | 4.851 | 4.851 | (1.114) | 134573 | 19.5913 | 19.5913 | |
| | 65 2-Chloroethylvinyl ether | 63 | Compound Not Detected. | | | | | | |
| | 66 cis-1,3-Dichloropropene | 75 | 5.178 | 5.181 | (0.814) | 273753 | 20.3490 | 20.3490 | |
| | 67 Octane | 85 | 5.196 | 5.196 | (0.816) | 93896 | 21.7869 | 21.7869 | |
| $ | 68 Toluene-d8 | 98 | 5.309 | 5.309 | (0.834) | 930003 | 30.2025 | 30.2025 | |
| | 69 Toluene | 92 | 5.343 | 5.343 | (0.839) | 435089 | 23.0170 | 23.0170 | |
| | 70 Chloroacetonitrile | 75 | 5.378 | 5.375 | (0.845) | 52753 | 90.3779 | 90.3779 | |
| | 71 2-Nitropropane | 41 | 5.477 | 5.474 | (0.860) | 300466 | 94.2732 | 94.2732 | |
| | 72 1,1-Dichloro-2-propanone | 63 | 5.497 | 5.497 | (0.864) | 27795 | 104.351 | 104.351(Q) | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.555 | 5.552 | (0.873) | 699856 | 101.779 | 101.779 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.592 | 5.592 | (0.879) | 294737 | 21.1842 | 21.1842 | |
| | 74 Tetrachloroethene | 164 | 5.607 | 5.607 | (0.881) | 177128 | 21.5548 | 21.5548 | |
| | 76 Ethyl methacrylate | 69 | 5.665 | 5.665 | (0.890) | 225311 | 19.7919 | 19.7919 | |

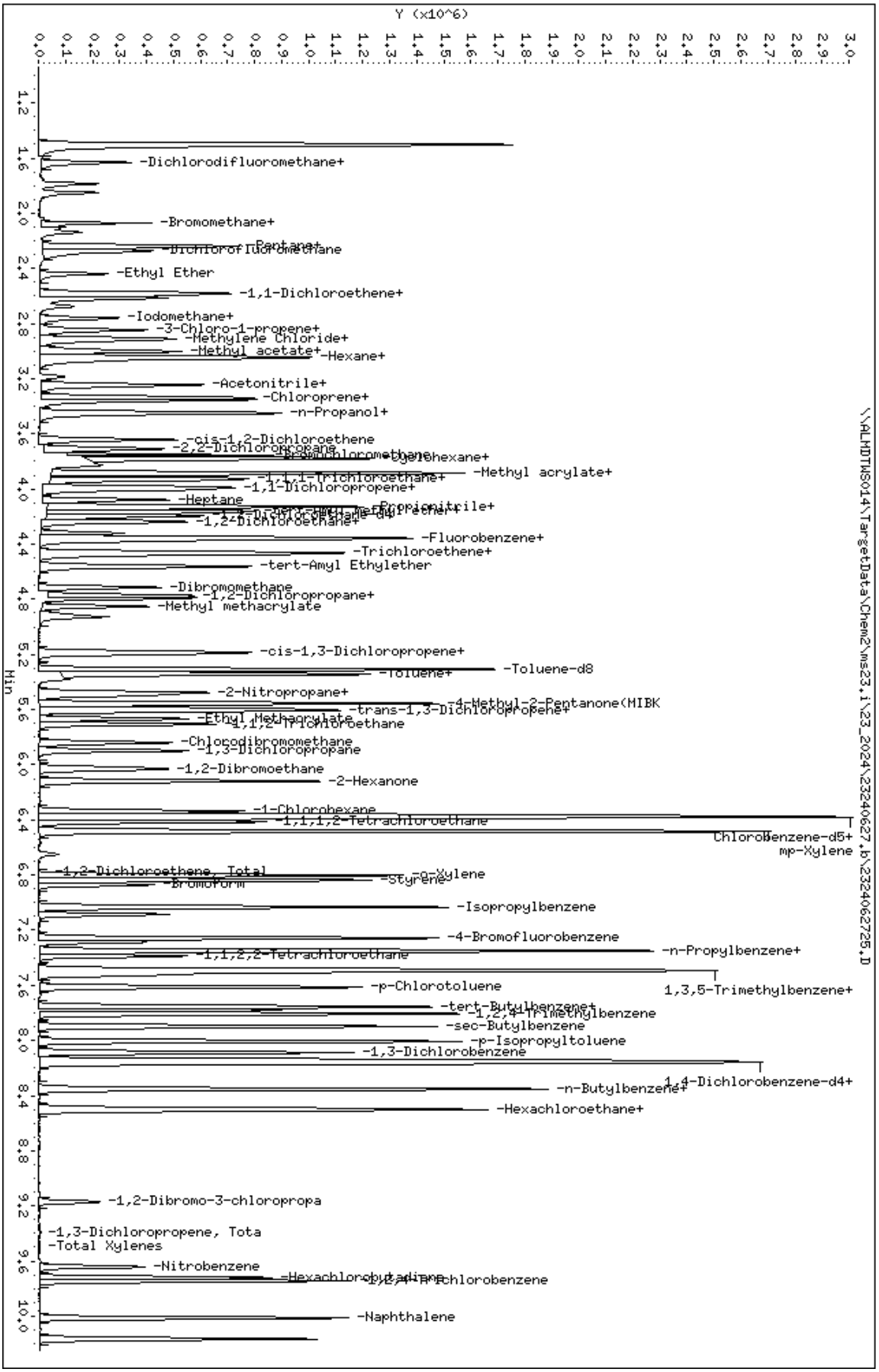
Data File: 2324062725.D
Report Date: 28-Jun-2024 11:43



| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 77 1,1,2-Trichloroethane | 83 | 5.705 | 5.703 | (0.896) | 125743 | 22.4169 | 22.4169 | |
| 78 Chlorodibromomethane | 129 | 5.841 | 5.839 | (0.918) | 231096 | 20.4282 | 20.4282 | |
| 79 1,3-Dichloropropane | 76 | 5.899 | 5.899 | (0.927) | 271748 | 23.0938 | 23.0938 | |
| 80 1,2-Dibromoethane | 107 | 6.021 | 6.021 | (0.946) | 183007 | 22.2856 | 22.2856 | |
| 81 2-Hexanone | 43 | 6.119 | 6.117 | (0.961) | 507065 | 100.088 | 100.088 | |
| 82 1-Chlorohexane | 91 | 6.337 | 6.334 | (0.995) | 227472 | 23.0513 | 23.0513 | |
| * 83 Chlorobenzene-d5 | 82 | 6.365 | 6.366 | (1.000) | 386317 | 30.0000 | | |
| 85 Ethylbenzene | 106 | 6.383 | 6.380 | (1.003) | 270515 | 23.6436 | 23.6436 | |
| 84 Chlorobenzene | 112 | 6.377 | 6.377 | (1.002) | 500909 | 23.0694 | 23.0694 | |
| 86 1,1,1,2-Tetrachloroethane | 131 | 6.415 | 6.415 | (1.008) | 212405 | 23.8463 | 23.8463 | |
| 87 mp-Xylene | 106 | 6.481 | 6.481 | (1.018) | 656954 | 47.4916 | 47.4916 | |
| M 120 1,3-Dichloropropene, Total | 75 | | | | 568490 | 41.5331 | 41.5331 | |
| 88 o-Xylene | 106 | 6.800 | 6.800 | (1.068) | 322566 | 23.7218 | 23.7218 | |
| 89 Styrene | 104 | 6.835 | 6.837 | (0.839) | 526432 | 21.8206 | 21.8206 | |
| 90 Bromoform | 173 | 6.872 | 6.869 | (0.844) | 172033 | 20.2319 | 20.2319 | |
| 91 Isopropylbenzene | 105 | 7.031 | 7.031 | (0.863) | 861994 | 25.0752 | 25.0752 | |
| $ 92 4-Bromofluorobenzene | 174 | 7.257 | 7.254 | (0.891) | 387343 | 30.8727 | 30.8727 | |
| M 121 TOTAL XYLENES | 106 | | | | 979520 | 71.2135 | 71.2135 | |
| 94 n-Propylbenzene | 120 | 7.350 | 7.350 | (0.903) | 233995 | 22.9388 | 22.9388 | |
| 93 Bromobenzene | 156 | 7.353 | 7.350 | (0.903) | 246109 | 22.8451 | 22.8451 | |
| 95 1,1,2,2-Tetrachloroethane | 83 | 7.388 | 7.388 | (0.907) | 205153 | 23.0276 | 23.0276 | |
| 97 1,3,5-Trimethylbenzene | 105 | 7.495 | 7.495 | (0.920) | 730546 | 24.2903 | 24.2903 | |
| 96 o-Chlorotoluene | 91 | 7.486 | 7.486 | (0.919) | 661282 | 23.7694 | 23.7694 | |
| 98 1,2,3-Trichloropropane | 110 | 7.509 | 7.506 | (0.922) | 85078 | 22.5125 | 22.5125 | |
| 99 trans-1,4-Dichloro-2-butene | 53 | 7.527 | 7.527 | (0.924) | 70391 | 20.1182 | 20.1182 | |
| 101 p-Chlorotoluene | 91 | 7.610 | 7.611 | (0.935) | 595153 | 23.1371 | 23.1371 | |
| 102 tert-Butylbenzene | 134 | 7.758 | 7.755 | (0.953) | 181636 | 24.1187 | 24.1187 | |
| 103 Pentachloroethane | 117 | 7.778 | 7.781 | (0.955) | 164299 | 23.2425 | 23.2425(M) | MP |
| 104 1,2,4-Trimethylbenzene | 105 | 7.807 | 7.807 | (0.959) | 740563 | 24.2444 | 24.2444 | |
| 105 sec-Butylbenzene | 105 | 7.900 | 7.897 | (0.970) | 864549 | 24.1420 | 24.1420 | |
| 106 p-Isopropyltoluene | 134 | 8.004 | 8.007 | (0.983) | 205401 | 23.7460 | 23.7460 | |
| 107 1,3-Dichlorobenzene | 146 | 8.088 | 8.088 | (0.993) | 435072 | 22.9201 | 22.9201 | |
| * 108 1,4-Dichlorobenzene-d4 | 152 | 8.143 | 8.143 | (1.000) | 433687 | 30.0000 | | |
| 109 1,4-Dichlorobenzene | 146 | 8.158 | 8.158 | (1.002) | 435517 | 22.3822 | 22.3822 | |
| 111 n-Butylbenzene | 134 | 8.352 | 8.355 | (1.026) | 186361 | 23.2793 | 23.2793(Q) | |
| 110 Benzyl Chloride | 126 | 8.349 | 8.349 | (1.025) | 78799 | 16.9452 | 16.9452(Q) | |
| 112 Hexachloroethane | 117 | 8.494 | 8.497 | (1.043) | 145620 | 21.5013 | 21.5013 | |
| 113 1,2-Dichlorobenzene | 146 | 8.505 | 8.505 | (1.044) | 423716 | 22.9938 | 22.9938 | |
| 114 1,2-Dibromo-3-chloropropane | 75 | 9.168 | 9.174 | (1.126) | 49676 | 20.2150 | 20.2150 | |
| 115 Nitrobenzene | 77 | 9.646 | 9.640 | (1.185) | 169121 | 173.023 | 173.023 | |
| 116 Hexachlorobutadiene | 225 | 9.718 | 9.718 | (1.193) | 146084 | 23.0457 | 23.0457 | |
| 117 1,2,4-Trichlorobenzene | 180 | 9.744 | 9.744 | (1.197) | 309801 | 24.2979 | 24.2979 | |
| 118 Naphthalene | 128 | 10.014 | 10.014 | (1.230) | 741948 | 20.8759 | 20.8759 | |
| 119 1,2,3-Trichlorobenzene | 180 | 10.164 | 10.167 | (1.248) | 277213 | 21.9719 | 21.9719(M) | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.


Y (x10^6)
Min
-Dichlorodifluoromethane+
-Bromomethane+
-Dichlorofluoromethane
-Ethyl Ether
-1,1-Dichloroethene+
-Iodomethane+
-3-Chloro-1-propene+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Methyl acrylate+
-1,1-Dichloropropene+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
1,1,2-Trichloroethane
-Chlorodibromomethane
1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-1,2-Dichloroethene, Total
-Bromoform
-Styrene
-o-Xylene
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,1,2,2-Tetrachloroethane
1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Total Xylenes
-Nitrobenzene
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
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Date : 27-JUN-2024 19:08
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Sample Info: 384527o;1;3;;MS;1;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms23.i
Operator: ILY
Column diameter: 0.25
Page 1

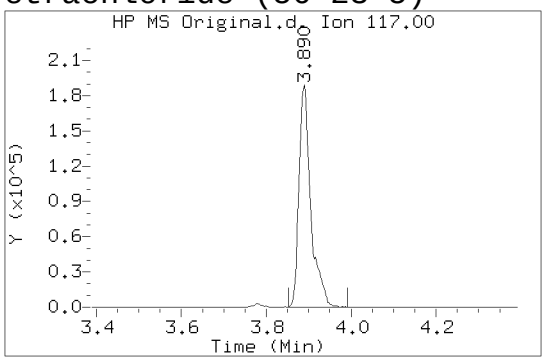
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Inj Date : 27-JUN-2024 19:08
InstruID : ms23.i
LabSampID : 3845270

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

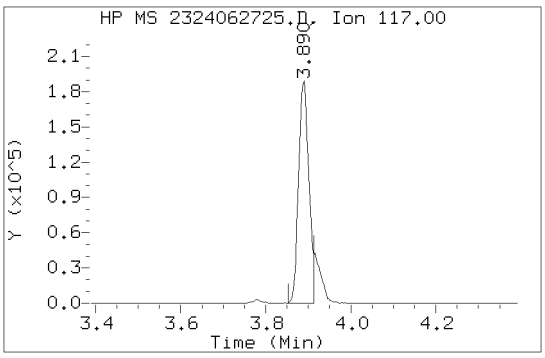
**BEFORE**

MASS
117
AREA
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HEIGHT
189120
28-Jun-2024
08:11



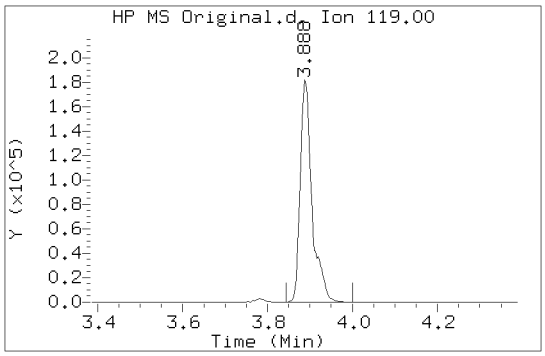

**AFTER**

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28-Jun-2024
11:43



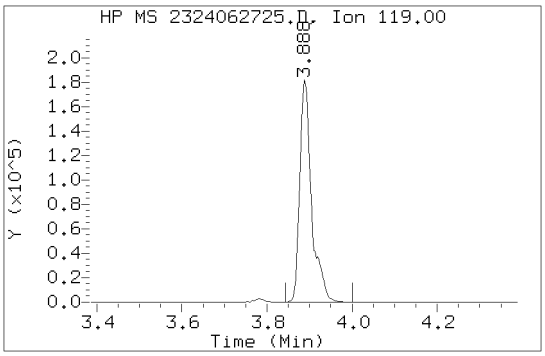

**BEFORE**

MASS
119
AREA
346272
HEIGHT
181888
28-Jun-2024
08:11



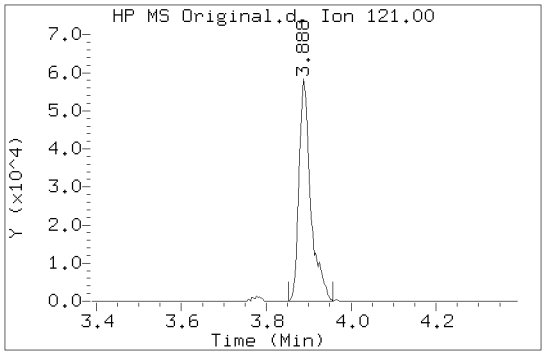

**AFTER**

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119
AREA
346272
HEIGHT
181888
28-Jun-2024
11:43



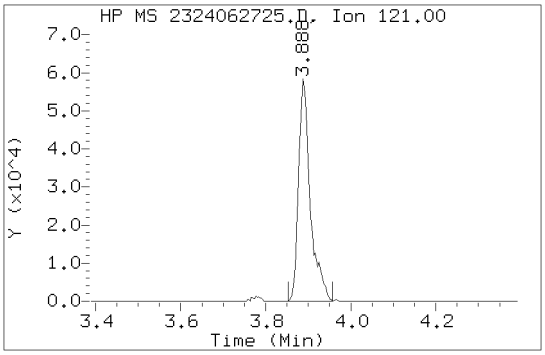

**BEFORE**

MASS
121
AREA
110448
HEIGHT
58392
28-Jun-2024
08:11




**AFTER**

MASS
121
AREA
110448
HEIGHT
58392
28-Jun-2024
11:43

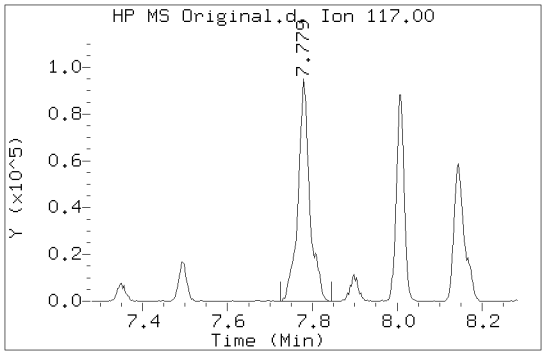



## Pentachloroethane (76-01-7)

Reason Code: MP

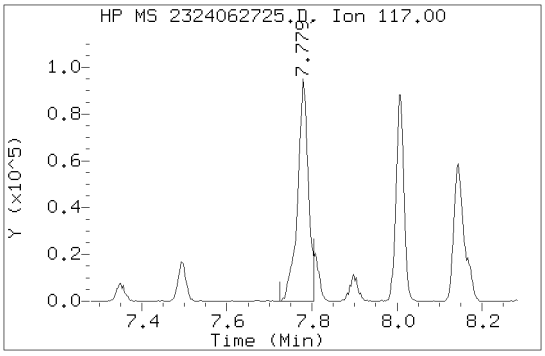
**BEFORE**

MASS
117
AREA
178921
HEIGHT
95016
28-Jun-2024
08:11




**AFTER**

MASS
117
AREA
164299
HEIGHT
95016
28-Jun-2024
11:43



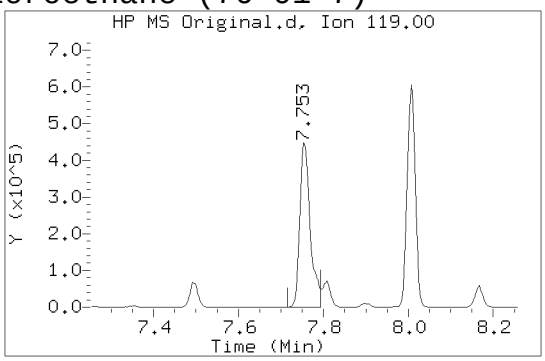
Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062725.D
Inj Date : 27-JUN-2024 19:08
InstruID : ms23.i
LabSampID : 3845270

## Pentachloroethane (76-01-7)

Reason Code: MP

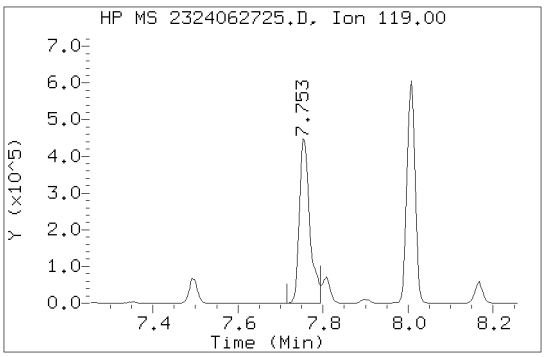
**BEFORE**

MASS
119
AREA
756438
HEIGHT
447936
28-Jun-2024
08:11



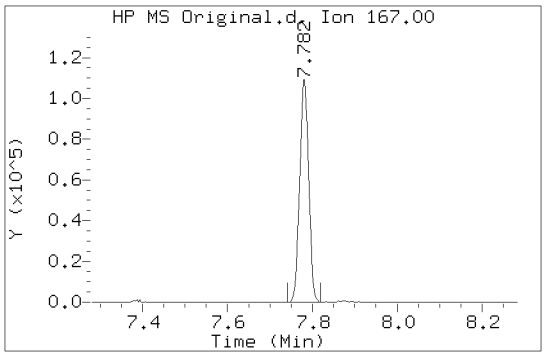

**AFTER**

MASS
119
AREA
756438
HEIGHT
447936
28-Jun-2024
11:43



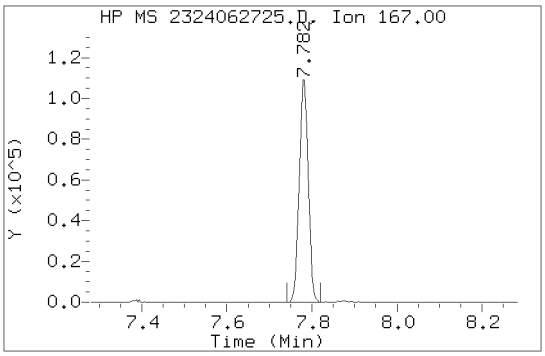

**BEFORE**

MASS
167
AREA
157589
HEIGHT
109080
28-Jun-2024
08:11




**AFTER**

MASS
167
AREA
157589
HEIGHT
109080
28-Jun-2024
11:43

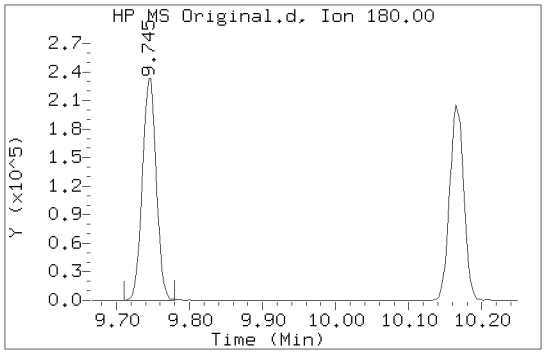



## 1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

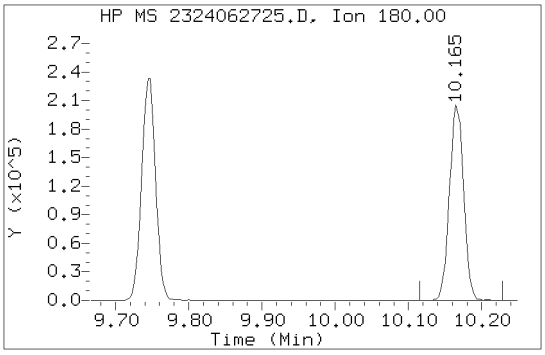
**BEFORE**

MASS
180
AREA
309636
HEIGHT
232896
28-Jun-2024
08:11



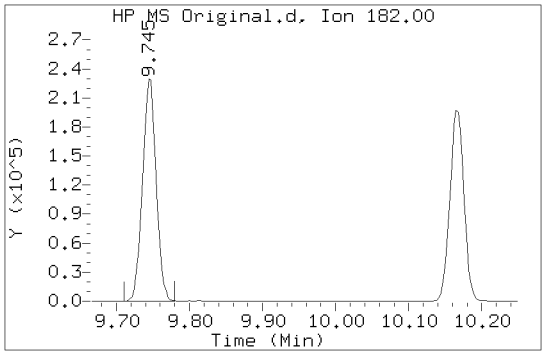

**AFTER**

MASS
180
AREA
277213
HEIGHT
205120
28-Jun-2024
11:43



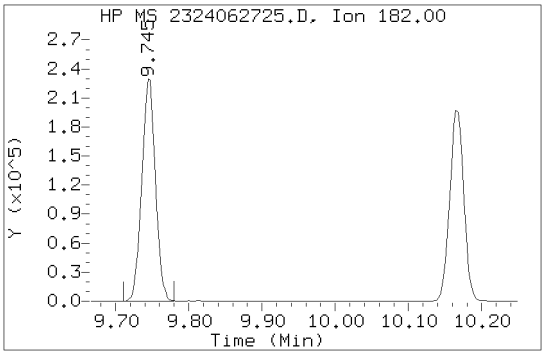

**BEFORE**

MASS
182
AREA
298096
HEIGHT
229696
28-Jun-2024
08:11




**AFTER**

MASS
182
AREA
298096
HEIGHT
229696
28-Jun-2024
11:43



# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 11:44
Client ID: 3366027010MS
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240627.b/232406272
Inj Date: 27-JUN-2024 19:08
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062726.D Page 1
Report Date: 28-Jun-2024 11:44

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062726.D
Lab Smp Id: 3845271 Client Smp ID: 3366027010MSD
Inj Date : 27-JUN-2024 19:28
Operator : ILY Inst ID: ms23.i
Smp Info : 3845271;;1;3;;MSD;1;
Misc Info : ZZ VOMS 73629 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\23-8260b09D.m
Meth Date : 27-Jun-2024 10:11 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 25 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.631 | 1.632 | (0.375) | 256025 | 19.4832 | 19.4832 | |
| 2 Chloromethane | 50 | 1.788 | 1.788 | (0.410) | 155302 | 19.3438 | 19.3438 | |
| 3 Vinyl Chloride | 62 | 1.852 | 1.852 | (0.425) | 159259 | 20.1367 | 20.1367 | |
| 4 Bromomethane | 94 | 2.072 | 2.075 | (0.476) | 123841 | 20.7014 | 20.7014 | |
| 5 Chloroethane | 64 | 2.141 | 2.150 | (0.492) | 91242 | 20.9664 | 20.9664 | |
| 6 Pentane | 41 | 2.237 | 2.245 | (0.514) | 90574 | 17.0226 | 17.0226 | |
| 7 Trichlorofluoromethane | 101 | 2.242 | 2.251 | (0.515) | 342190 | 20.3226 | 20.3226 | |
| 8 Dichlorofluoromethane | 67 | 2.274 | 2.280 | (0.522) | 308819 | 21.7267 | 21.7267 | |
| 9 Ethyl Ether | 74 | 2.442 | 2.439 | (0.561) | 91102 | 20.5296 | 20.5296 | |
| 10 1,1-Dichloroethene | 61 | 2.578 | 2.578 | (0.592) | 224449 | 22.3600 | 22.3600 | |
| 12 Carbon Disulfide | 76 | 2.616 | 2.619 | (0.601) | 406295 | 20.8672 | 20.8672 | |
| 11 Freon 113 | 101 | 2.587 | 2.593 | (0.594) | 152220 | 22.2932 | 22.2932 | |
| 13 Iodomethane | 127 | 2.674 | 2.677 | (0.614) | 62245 | 16.5914 | 16.5914 | |
| 14 Acrolein | 56 | 2.761 | 2.761 | (0.634) | 200347 | 158.731 | 158.731 | |
| 16 3-Chloro-1-propene | 41 | 2.848 | 2.851 | (0.654) | 161608 | 21.2029 | 21.2029 | |
| 15 Isopropyl Alcohol | 45 | 2.836 | 2.825 | (0.651) | 46272 | 87.5348 | 87.5348 | |
| 17 Methylene Chloride | 84 | 2.911 | 2.909 | (0.668) | 160001 | 21.9961 | 21.9961 | |
| 18 Acetone | 58 | 2.923 | 2.920 | (0.671) | 69173 | 103.158 | 103.158 | |
| 19 Methyl acetate | 74 | 2.987 | 2.981 | (0.686) | 27782 | 16.4575 | 16.4575(Q) | |
| 20 trans-1,2-Dichloroethene | 61 | 3.004 | 3.004 | (0.690) | 197978 | 21.5130 | 21.5130 | |
| 21 Hexane | 57 | 3.044 | 3.045 | (0.699) | 262849 | 19.2594 | 19.2594 | |
| 22 Methyl t-Butyl Ether | 73 | 3.050 | 3.047 | (0.700) | 542149 | 22.0704 | 22.0704 | |

Data File: 2324062726.D
Report Date: 28-Jun-2024 11:44



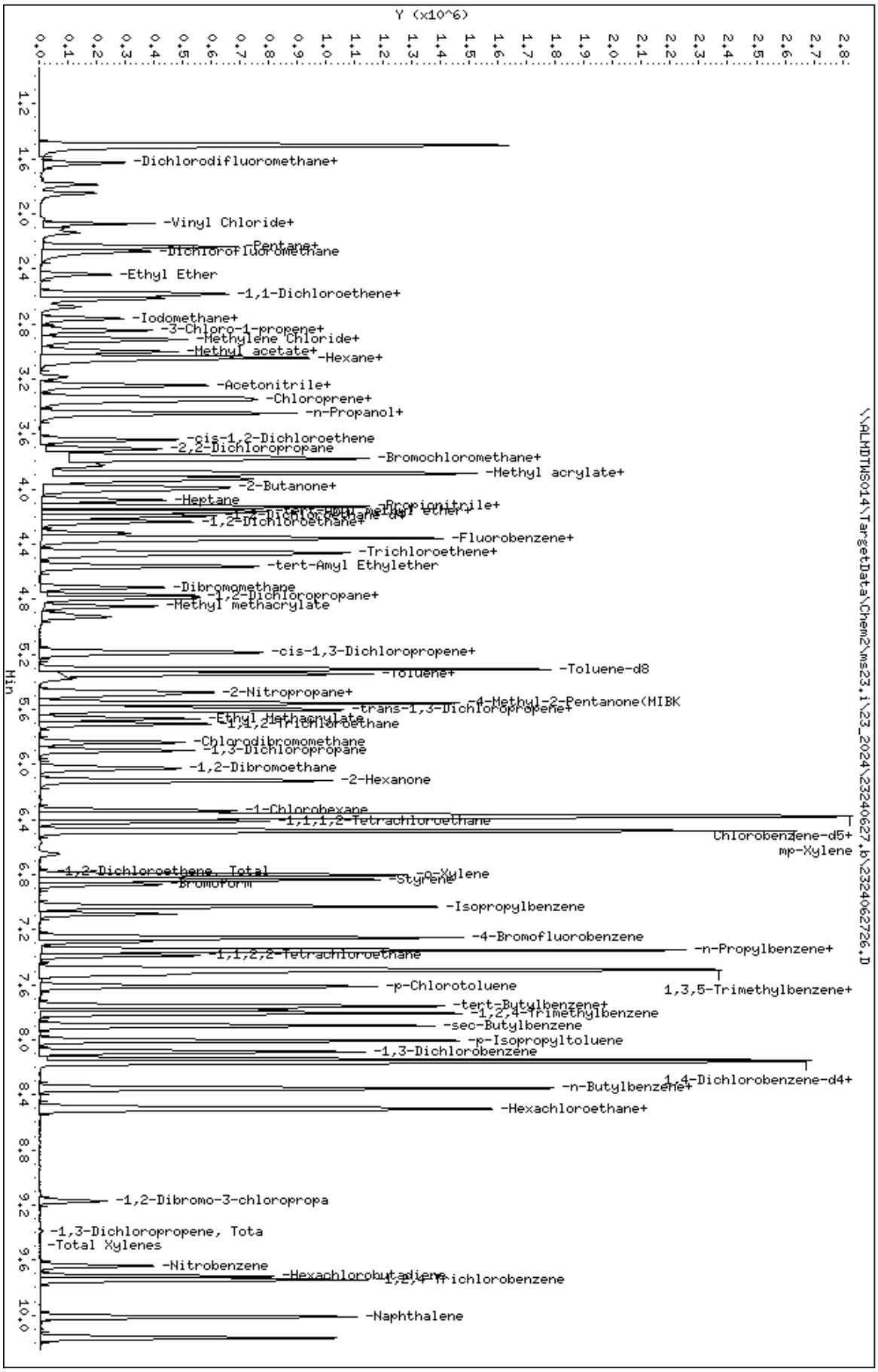
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 23 tert.- Butyl Alcohol | 59 | 3.073 | 3.065 | (0.706) | 104793 | 102.404 | 102.404 | |
| | 24 Acetonitrile | 41 | 3.183 | 3.184 | (0.731) | 80077 | 103.688 | 103.688 | |
| | 25 Diisopropyl ether | 45 | 3.247 | 3.244 | (0.745) | 358286 | 21.0861 | 21.0861 | |
| | 26 Chloroprene | 53 | 3.334 | 3.334 | (0.765) | 188028 | 16.0456 | 16.0456 | |
| | 27 1,1-Dichloroethane | 63 | 3.346 | 3.346 | (0.768) | 258260 | 19.8835 | 19.8835 | |
| | 28 Acrylonitrile | 53 | 3.360 | 3.354 | (0.771) | 327890 | 97.3996 | 97.3996 | |
| | 30 n-Propanol | 41 | 3.447 | 3.447 | (0.791) | 83981 | 211.199 | 211.199(Q) | |
| | 29 Ethyl tert-butyl ether | 59 | 3.450 | 3.447 | (0.792) | 495245 | 20.3398 | 20.3398 | |
| | 31 Vinyl acetate | 86 | 3.450 | 3.447 | (0.792) | 32850 | 15.2748 | 15.2748(Q) | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.641 | 3.641 | (0.836) | 213177 | 22.3886 | 22.3886 | |
| | 33 2,2-Dichloropropane | 77 | 3.710 | 3.708 | (0.852) | 251080 | 19.9794 | 19.9794 | |
| M | 100 1,2-Dichloroethene, Total | 61 | | | | 411155 | 43.9016 | 43.9016 | |
| | 34 Bromochloromethane | 128 | 3.757 | 3.757 | (0.862) | 104695 | 22.7743 | 22.7743 | |
| | 35 Cyclohexane | 84 | 3.780 | 3.780 | (0.868) | 238810 | 22.3619 | 22.3619 | |
| | 36 Chloroform | 83 | 3.780 | 3.780 | (0.868) | 332187 | 20.7989 | 20.7989 | |
| | 37 Ethyl acetate | 43 | 3.817 | 3.815 | (0.876) | 121288 | 17.2789 | 17.2789 | |
| | 38 Methyl acrylate | 55 | 3.835 | 3.832 | (0.880) | 141136 | 19.0654 | 19.0654 | |
| | 39 Carbon Tetrachloride | 117 | 3.887 | 3.890 | (0.892) | 286435 | 19.9013 | 19.9013(M) | MP |
| | 40 Tetrahydrofuran | 42 | 3.884 | 3.878 | (0.892) | 187707 | 101.185 | 101.185 | |
| $ | 41 Dibromofluoromethane | 113 | 3.884 | 3.881 | (0.892) | 270318 | 30.7069 | 30.7069 | |
| | 42 1,1,1-Trichloroethane | 97 | 3.922 | 3.922 | (0.900) | 339225 | 23.2380 | 23.2380 | |
| | 43 2-Butanone | 72 | 3.936 | 3.936 | (0.904) | 103861 | 100.663 | 100.663 | |
| | 44 1,1-Dichloropropene | 75 | 3.985 | 3.986 | (0.915) | 224646 | 21.6190 | 21.6190 | |
| | 45 1-Chlorobutane | 41 | 4.006 | 4.006 | (0.920) | 143256 | 21.2236 | 21.2236 | |
| | 46 Heptane | 71 | 4.078 | 4.081 | (0.936) | 94374 | 19.6558 | 19.6558 | |
| | 48 Propionitrile | 54 | 4.113 | 4.113 | (0.944) | 113817 | 94.8276 | 94.8276 | |
| | 47 Benzene | 78 | 4.127 | 4.130 | (0.947) | 583878 | 21.4104 | 21.4104 | |
| | 49 Methacrylonitrile | 67 | 4.127 | 4.127 | (0.947) | 68031 | 20.4285 | 20.4285 | |
| | 50 tert-amyl methyl Ether | 73 | 4.165 | 4.162 | (0.956) | 508365 | 20.6438 | 20.6438 | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.197 | 4.197 | (0.963) | 351268 | 31.1692 | 31.1692 | |
| | 54 Isobutyl alcohol | 42 | 4.174 | 4.168 | (0.958) | 31640 | 161.635 | 161.635(Q) | |
| | 52 1,2-Dichloroethane | 62 | 4.234 | 4.235 | (0.972) | 275789 | 21.4339 | 21.4339 | |
| | 53 tert-Amyl Alcohol | 59 | 4.240 | 4.237 | (0.973) | 76872 | 100.805 | 100.805 | |
| * | 55 Fluorobenzene | 96 | 4.356 | 4.353 | (1.000) | 895813 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.370 | 4.371 | (1.003) | 231391 | 14.4045 | 14.4045 | |
| | 57 Trichloroethene | 95 | 4.457 | 4.458 | (1.023) | 177215 | 21.2133 | 21.2133 | |
| | 58 Methyl cyclohexane | 83 | 4.472 | 4.472 | (0.703) | 240748 | 20.8716 | 20.8716 | |
| | 59 tert-Amyl Ethylether | 59 | 4.562 | 4.562 | (1.047) | 348853 | 21.1594 | 21.1594 | |
| | 60 Dibromomethane | 93 | 4.715 | 4.712 | (1.082) | 118497 | 22.0585 | 22.0585 | |
| | 61 1,2-Dichloropropane | 63 | 4.770 | 4.773 | (1.095) | 128398 | 21.5909 | 21.5909 | |
| | 62 Bromodichloromethane | 83 | 4.790 | 4.793 | (1.100) | 256813 | 22.4205 | 22.4205 | |
| | 63 Methyl methacrylate | 41 | 4.851 | 4.851 | (1.114) | 134251 | 19.0518 | 19.0518 | |
| | 65 2-Chloroethylvinyl ether | 63 | Compound Not Detected. | | | | | | |
| | 66 cis-1,3-Dichloropropene | 75 | 5.181 | 5.181 | (0.814) | 267071 | 18.9874 | 18.9874 | |
| | 67 Octane | 85 | 5.196 | 5.196 | (0.816) | 88378 | 19.5925 | 19.5925 | |
| $ | 68 Toluene-d8 | 98 | 5.309 | 5.309 | (0.834) | 973024 | 30.1912 | 30.1912 | |
| | 69 Toluene | 92 | 5.343 | 5.343 | (0.839) | 409885 | 20.7172 | 20.7172 | |
| | 70 Chloroacetonitrile | 75 | 5.381 | 5.375 | (0.845) | 53246 | 87.2308 | 87.2308 | |
| | 71 2-Nitropropane | 41 | 5.474 | 5.474 | (0.860) | 294843 | 88.4845 | 88.4845 | |
| | 72 1,1-Dichloro-2-propanone | 63 | 5.497 | 5.497 | (0.864) | 27068 | 97.0925 | 97.0925(Q) | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.555 | 5.552 | (0.873) | 688946 | 95.7965 | 95.7965 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.592 | 5.592 | (0.879) | 286740 | 19.7069 | 19.7069 | |
| | 74 Tetrachloroethene | 164 | 5.607 | 5.607 | (0.881) | 171028 | 19.8849 | 19.8849 | |
| | 76 Ethyl methacrylate | 69 | 5.668 | 5.665 | (0.890) | 218865 | 18.3902 | 18.3902 | |

Data File: 2324062726.D Page 3
Report Date: 28-Jun-2024 11:44

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 77 1,1,2-Trichloroethane | 83 | 5.705 | 5.703 | (0.896) | 125251 | 21.3340 | 21.3340 | |
| | 78 Chlorodibromomethane | 129 | 5.838 | 5.839 | (0.917) | 226716 | 19.1644 | 19.1644 | |
| | 79 1,3-Dichloropropane | 76 | 5.896 | 5.899 | (0.926) | 266305 | 21.6226 | 21.6226 | |
| | 80 1,2-Dibromoethane | 107 | 6.021 | 6.021 | (0.946) | 181613 | 21.1301 | 21.1301 | |
| | 81 2-Hexanone | 43 | 6.119 | 6.117 | (0.961) | 489355 | 92.3924 | 92.3924 | |
| | 82 1-Chlorohexane | 91 | 6.336 | 6.334 | (0.995) | 211206 | 20.4490 | 20.4490 | |
| * | 83 Chlorobenzene-d5 | 82 | 6.365 | 6.366 | (1.000) | 404339 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | 6.383 | 6.380 | (1.003) | 253436 | 21.1636 | 21.1636 | |
| | 84 Chlorobenzene | 112 | 6.377 | 6.377 | (1.002) | 483285 | 21.2656 | 21.2656 | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | 6.415 | 6.415 | (1.008) | 208984 | 22.4165 | 22.4165 | |
| | 87 mp-Xylene | 106 | 6.484 | 6.481 | (1.019) | 628936 | 43.4397 | 43.4397 | |
| M | 120 1,3-Dichloropropene, Total | 75 | | | | 553811 | 38.6942 | 38.6942 | |
| | 88 o-Xylene | 106 | 6.803 | 6.800 | (1.069) | 306599 | 21.5426 | 21.5426 | |
| | 89 Styrene | 104 | 6.837 | 6.837 | (0.840) | 503066 | 19.2486 | 19.2486 | |
| | 90 Bromoform | 173 | 6.872 | 6.869 | (0.844) | 173918 | 18.8749 | 18.8749 | |
| | 91 Isopropylbenzene | 105 | 7.034 | 7.031 | (0.864) | 817140 | 21.9284 | 21.9284 | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.257 | 7.254 | (0.891) | 391288 | 28.7501 | 28.7501 | |
| M | 121 TOTAL XYLENES | 106 | | | | 935535 | 64.9823 | 64.9823 | |
| | 94 n-Propylbenzene | 120 | 7.353 | 7.350 | (0.903) | 220776 | 19.9517 | 19.9517 | |
| | 93 Bromobenzene | 156 | 7.350 | 7.350 | (0.903) | 237128 | 20.2914 | 20.2914 | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | 7.387 | 7.388 | (0.907) | 202860 | 20.9909 | 20.9909 | |
| | 97 1,3,5-Trimethylbenzene | 105 | 7.495 | 7.495 | (0.920) | 704395 | 21.5907 | 21.5907 | |
| | 96 o-Chlorotoluene | 91 | 7.486 | 7.486 | (0.919) | 631629 | 20.9294 | 20.9294 | |
| | 98 1,2,3-Trichloropropane | 110 | 7.509 | 7.506 | (0.922) | 85102 | 20.7592 | 20.7592 | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | 7.526 | 7.527 | (0.924) | 68800 | 18.1601 | 18.1601 | |
| | 101 p-Chlorotoluene | 91 | 7.613 | 7.611 | (0.935) | 572979 | 20.5345 | 20.5345 | |
| | 102 tert-Butylbenzene | 134 | 7.755 | 7.755 | (0.952) | 169998 | 20.8095 | 20.8095 | |
| | 103 Pentachloroethane | 117 | 7.778 | 7.781 | (0.955) | 155335 | 20.2850 | 20.2850(M) | MP |
| | 104 1,2,4-Trimethylbenzene | 105 | 7.807 | 7.807 | (0.959) | 705424 | 21.2894 | 21.2894 | |
| | 105 sec-Butylbenzene | 105 | 7.900 | 7.897 | (0.970) | 823208 | 21.1913 | 21.1913 | |
| | 106 p-Isopropyltoluene | 134 | 8.007 | 8.007 | (0.983) | 196569 | 20.9492 | 20.9492 | |
| | 107 1,3-Dichlorobenzene | 146 | 8.088 | 8.088 | (0.993) | 418439 | 20.3213 | 20.3213 | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 8.143 | 8.143 | (1.000) | 470448 | 30.0000 | | |
| | 109 1,4-Dichlorobenzene | 146 | 8.158 | 8.158 | (1.002) | 419700 | 19.8839 | 19.8839 | |
| | 111 n-Butylbenzene | 134 | 8.354 | 8.355 | (1.026) | 179892 | 20.7153 | 20.7153(Q) | |
| | 110 Benzyl Chloride | 126 | 8.349 | 8.349 | (1.025) | 76888 | 15.2765 | 15.2765(Q) | |
| | 112 Hexachloroethane | 117 | 8.496 | 8.497 | (1.043) | 142520 | 19.4211 | 19.4211 | |
| | 113 1,2-Dichlorobenzene | 146 | 8.505 | 8.505 | (1.044) | 406778 | 20.3497 | 20.3497 | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | 9.174 | 9.174 | (1.127) | 50869 | 19.0829 | 19.0829 | |
| | 115 Nitrobenzene | 77 | 9.643 | 9.640 | (1.184) | 169512 | 161.468 | 161.468 | |
| | 116 Hexachlorobutadiene | 225 | 9.718 | 9.718 | (1.193) | 140465 | 20.4278 | 20.4278 | |
| | 117 1,2,4-Trichlorobenzene | 180 | 9.744 | 9.744 | (1.197) | 307541 | 22.2358 | 22.2358 | |
| | 118 Naphthalene | 128 | 10.011 | 10.014 | (1.229) | 734144 | 19.0614 | 19.0614 | |
| | 119 1,2,3-Trichlorobenzene | 180 | 10.167 | 10.167 | (1.249) | 270234 | 19.7451 | 19.7451 | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

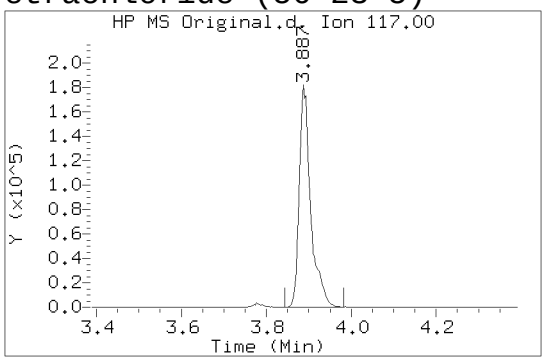

Y (x10^6)
Min
-Dichlorodifluoromethane+
-Vinyl Chloride+
-Pentane+
-Dichlorofluoromethane
-Ethyl Ether
-1,1-Dichloroethene+
-Iodomethane+
-3-Chloro-1-propene+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Methyl acrylate+
-2-Butanone+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-1,2-Dichloroethene, Total
-Bromoform
-Styrene
-o-Xylene
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,1,2,2-Tetrachloroethane
-p-Chlorotoluene
1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Total Xylenes
-Nitrobenzene
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
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Purge Volume: 5.0
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Instrument: ms23.i
Operator: ILY
Column diameter: 0.25
Page 1

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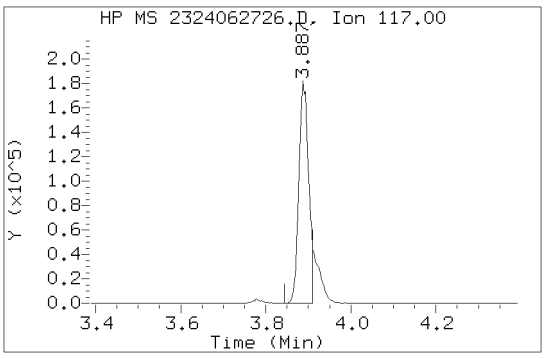
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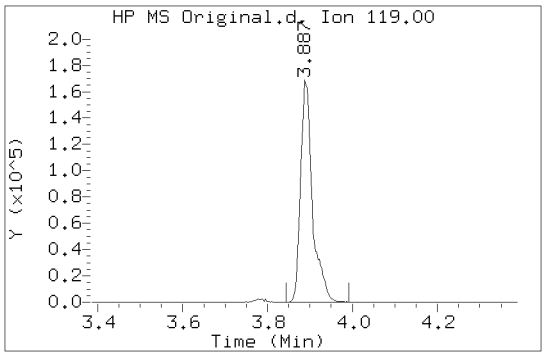
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HEIGHT
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28-Jun-2024
08:11



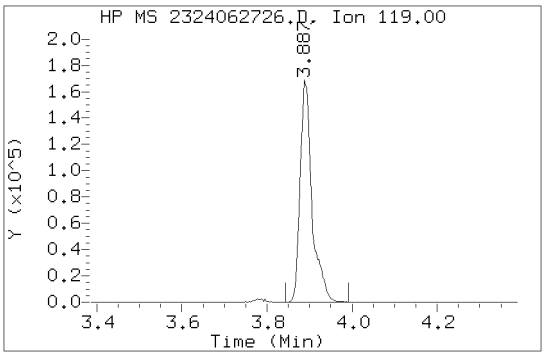

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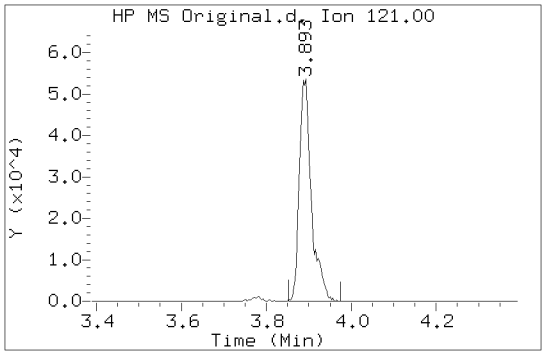

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28-Jun-2024
08:11



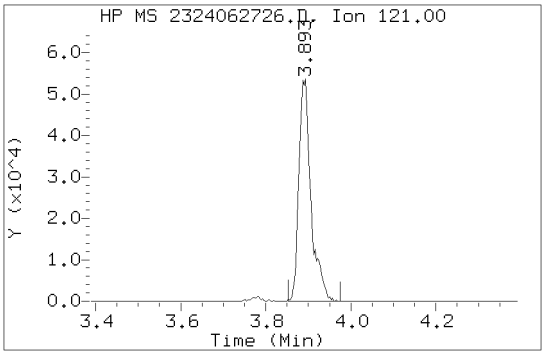

AFTER
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11:44




BEFORE
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28-Jun-2024
08:11



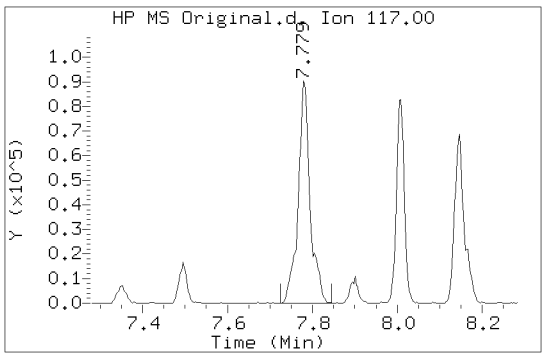

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28-Jun-2024
11:44



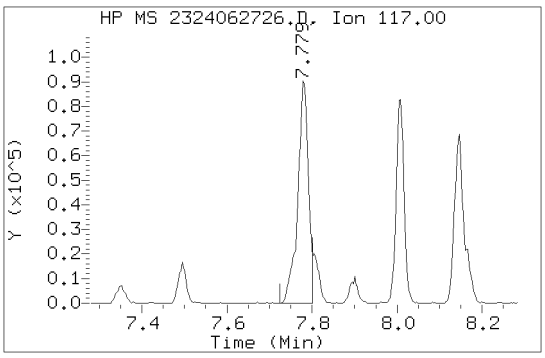

## Pentachloroethane (76-01-7)

Reason Code: MP

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HEIGHT
90384
28-Jun-2024
08:11




AFTER
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117
AREA
155335
HEIGHT
90384
28-Jun-2024
11:44



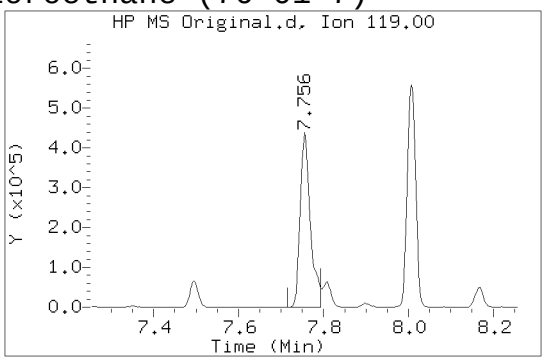
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Inj Date : 27-JUN-2024 19:28
InstruID : ms23.i
LabSampID : 3845271

## Pentachloroethane (76-01-7)

Reason Code: MP

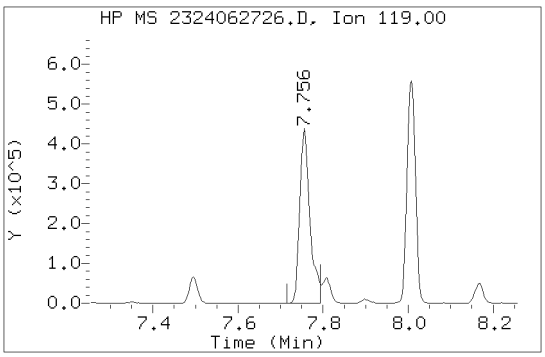
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HEIGHT
439296
28-Jun-2024
08:11



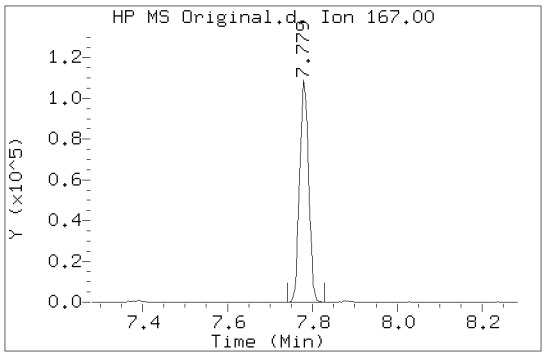

AFTER

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28-Jun-2024
11:44



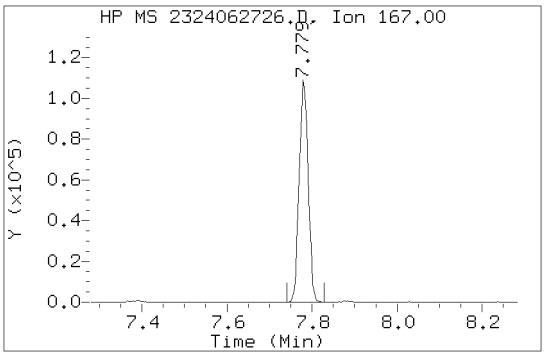

BEFORE

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HEIGHT
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28-Jun-2024
08:11




AFTER

MASS
167
AREA
157307
HEIGHT
109040
28-Jun-2024
11:44



# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 11:44
Client ID: 3366027010MSD
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240627.b/232406272
Inj Date: 27-JUN-2024 19:28
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062727.D Page 1
Report Date: 28-Jun-2024 11:45

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062727.D
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Inj Date : 27-JUN-2024 19:48
Operator : ILY Inst ID: ms23.i
Smp Info : 1801;;1;;;;;
Misc Info :
Comment :
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Meth Date : 27-Jun-2024 10:11 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 26 QC Sample: ENDCCV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7047

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Dichlorodifluoromethane | 85 | 1.631 | 1.632 | (0.375) | 570820 | 42.9104 | 42.9104 | |
| 2 | Chloromethane | 50 | 1.788 | 1.788 | (0.410) | 337984 | 41.5859 | 41.5859 | |
| 3 | Vinyl Chloride | 62 | 1.851 | 1.852 | (0.425) | 358758 | 44.8097 | 44.8097 | |
| 4 | Bromomethane | 94 | 2.074 | 2.075 | (0.476) | 285583 | 47.1413 | 47.1413 | |
| 5 | Chloroethane | 64 | 2.150 | 2.150 | (0.494) | 192531 | 43.7034 | 43.7034 | |
| 6 | Pentane | 41 | 2.245 | 2.245 | (0.515) | 121344 | 22.5282 | 22.5282(R) | |
| 7 | Trichlorofluoromethane | 101 | 2.251 | 2.251 | (0.517) | 782200 | 45.8897 | 45.8897 | |
| 8 | Dichlorofluoromethane | 67 | 2.280 | 2.280 | (0.523) | 665422 | 46.2459 | 46.2459 | |
| 9 | Ethyl Ether | 74 | 2.439 | 2.439 | (0.560) | 211138 | 47.0007 | 47.0007 | |
| 10 | 1,1-Dichloroethene | 61 | 2.578 | 2.578 | (0.592) | 426329 | 41.9551 | 41.9551 | |
| 12 | Carbon Disulfide | 76 | 2.619 | 2.619 | (0.601) | 849135 | 43.0809 | 43.0809 | |
| 11 | Freon 113 | 101 | 2.593 | 2.593 | (0.595) | 220151 | 31.8499 | 31.8499 | |
| 13 | Iodomethane | 127 | 2.679 | 2.677 | (0.615) | 182387 | 44.9104 | 44.9104 | |
| 14 | Acrolein | 56 | 2.760 | 2.761 | (0.634) | 296886 | 232.357 | 232.357 | |
| 16 | 3-Chloro-1-propene | 41 | 2.847 | 2.851 | (0.654) | 334004 | 43.0905 | 43.0905 | |
| 15 | Isopropyl Alcohol | 45 | 2.824 | 2.825 | (0.648) | 113622 | 215.242 | 215.242 | |
| 17 | Methylene Chloride | 84 | 2.908 | 2.909 | (0.668) | 350192 | 47.5570 | 47.5570 | |
| 18 | Acetone | 58 | 2.923 | 2.920 | (0.671) | 159549 | 235.041 | 235.041 | |
| 19 | Methyl acetate | 74 | 2.983 | 2.981 | (0.685) | 69833 | 40.8645 | 40.8645(Q) | |
| 20 | trans-1,2-Dichloroethene | 61 | 3.004 | 3.004 | (0.690) | 423075 | 45.4137 | 45.4137 | |
| 21 | Hexane | 57 | 3.044 | 3.045 | (0.699) | 417743 | 30.2364 | 30.2364 | |

Data File: 2324062727.D
Report Date: 28-Jun-2024 11:45



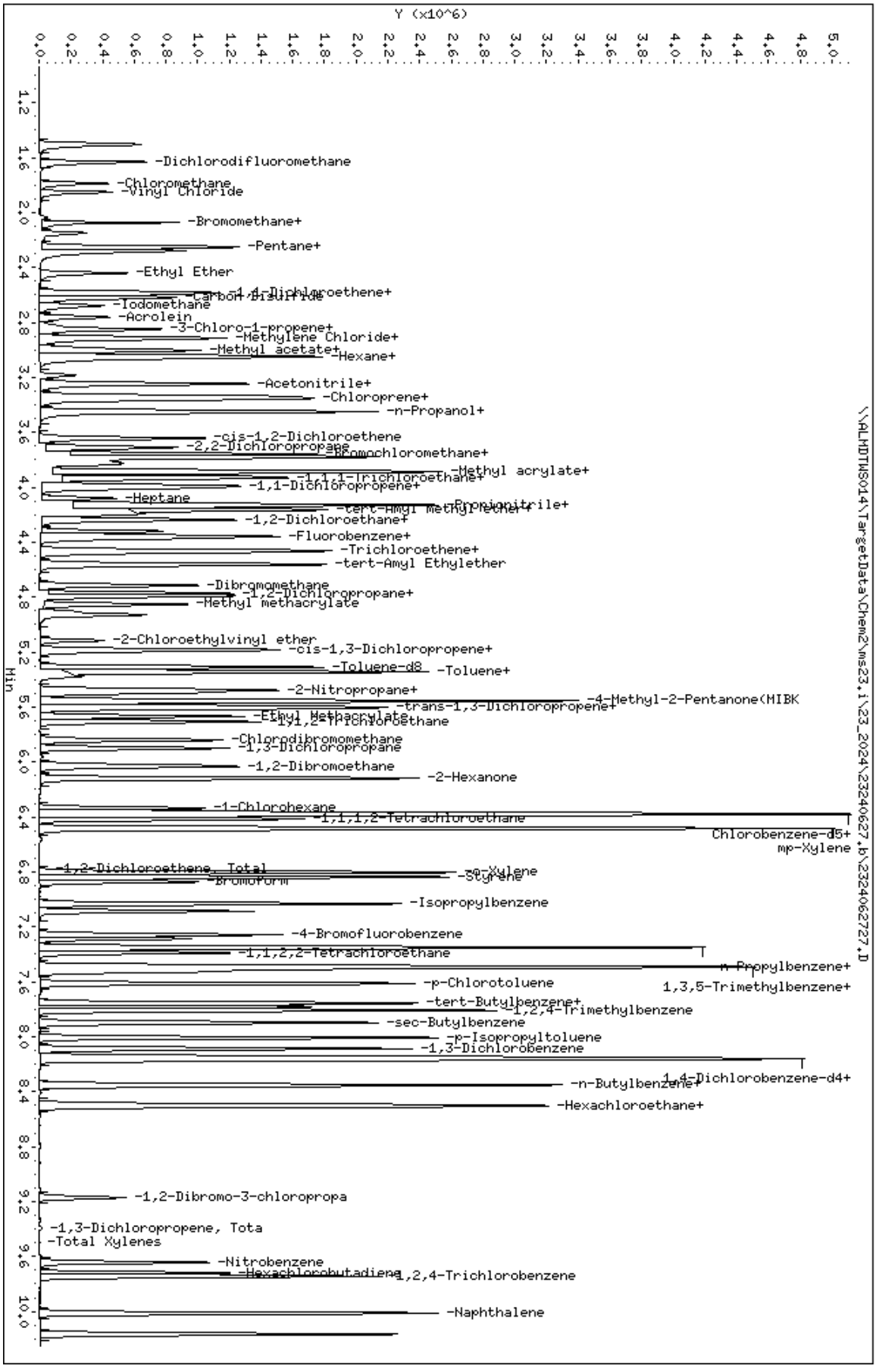
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | 3.047 | 3.047 | (0.700) | 1213666 | 48.8064 | 48.8064 | |
| | 23 tert.- Butyl Alcohol | 59 | 3.070 | 3.065 | (0.705) | 237192 | 228.967 | 228.967 | |
| | 24 Acetonitrile | 41 | 3.186 | 3.184 | (0.731) | 182137 | 232.972 | 232.972 | |
| | 25 Diisopropyl ether | 45 | 3.247 | 3.244 | (0.745) | 813504 | 47.2946 | 47.2946 | |
| | 26 Chloroprene | 53 | 3.334 | 3.334 | (0.765) | 365557 | 30.5906 | 30.5906 | |
| | 27 1,1-Dichloroethane | 63 | 3.345 | 3.346 | (0.768) | 566598 | 42.8565 | 42.8565 | |
| | 28 Acrylonitrile | 53 | 3.357 | 3.354 | (0.771) | 754273 | 219.783 | 219.783(M) | |
| | 30 n-Propanol | 41 | 3.450 | 3.447 | (0.792) | 197371 | 490.319 | 490.319 | |
| | 29 Ethyl tert-butyl ether | 59 | 3.447 | 3.447 | (0.791) | 1098449 | 44.3053 | 44.3053 | |
| | 31 Vinyl acetate | 86 | 3.452 | 3.447 | (0.793) | 98680 | 44.7196 | 44.7196(Q) | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.641 | 3.641 | (0.836) | 453630 | 47.0623 | 47.0623 | |
| | 33 2,2-Dichloropropane | 77 | 3.710 | 3.708 | (0.852) | 503603 | 39.5863 | 39.5863 | |
| M | 100 1,2-Dichloroethene, Total | 61 | | | | 876705 | 92.4760 | 92.4760 | |
| | 34 Bromochloromethane | 128 | 3.759 | 3.757 | (0.863) | 229595 | 49.3364 | 49.3364 | |
| | 35 Cyclohexane | 84 | 3.780 | 3.780 | (0.868) | 339189 | 31.3750 | 31.3750 | |
| | 36 Chloroform | 83 | 3.780 | 3.780 | (0.868) | 742763 | 45.9403 | 45.9403 | |
| | 37 Ethyl acetate | 43 | 3.814 | 3.815 | (0.876) | 335022 | 47.1474 | 47.1474 | |
| | 38 Methyl acrylate | 55 | 3.832 | 3.832 | (0.880) | 329994 | 43.6825 | 43.6825 | |
| | 39 Carbon Tetrachloride | 117 | 3.890 | 3.890 | (0.893) | 537479 | 36.6942 | 36.6942(M) | MP |
| | 40 Tetrahydrofuran | 42 | 3.884 | 3.878 | (0.892) | 438987 | 233.762 | 233.762 | |
| $ | 41 Dibromofluoromethane | 113 | 3.884 | 3.881 | (0.892) | 268663 | 30.1477 | 30.1477 | |
| | 42 1,1,1-Trichloroethane | 97 | 3.921 | 3.922 | (0.900) | 639722 | 43.2900 | 43.2900 | |
| | 43 2-Butanone | 72 | 3.936 | 3.936 | (0.904) | 241064 | 230.800 | 230.800 | |
| | 44 1,1-Dichloropropene | 75 | 3.985 | 3.986 | (0.915) | 427299 | 40.6214 | 40.6214 | |
| | 45 1-Chlorobutane | 41 | 4.005 | 4.006 | (0.920) | 268595 | 39.3089 | 39.3089 | |
| | 46 Heptane | 71 | 4.078 | 4.081 | (0.936) | 106593 | 21.9307 | 21.9307(R) | |
| | 48 Propionitrile | 54 | 4.113 | 4.113 | (0.944) | 265551 | 216.902 | 216.902 | |
| | 47 Benzene | 78 | 4.130 | 4.130 | (0.948) | 1262369 | 45.7273 | 45.7273 | |
| | 49 Methacrylonitrile | 67 | 4.130 | 4.127 | (0.948) | 157619 | 46.7546 | 46.7546 | |
| | 50 tert-amyl methyl Ether | 73 | 4.162 | 4.162 | (0.955) | 1122972 | 44.7901 | 44.7901 | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.199 | 4.197 | (0.964) | 338055 | 29.6319 | 29.6319(M) | MP |
| | 54 Isobutyl alcohol | 42 | 4.170 | 4.168 | (0.957) | 87845 | 429.458 | 429.458 | |
| | 52 1,2-Dichloroethane | 62 | 4.237 | 4.235 | (0.973) | 616994 | 47.3685 | 47.3685 | |
| | 53 tert-Amyl Alcohol | 59 | 4.237 | 4.237 | (0.973) | 174145 | 225.585 | 225.585 | |
| * | 55 Fluorobenzene | 96 | 4.356 | 4.353 | (1.000) | 906842 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.370 | 4.371 | (1.003) | 362060 | 23.2008 | 23.2008(R) | |
| | 57 Trichloroethene | 95 | 4.460 | 4.458 | (1.024) | 364475 | 43.0984 | 43.0984 | |
| | 58 Methyl cyclohexane | 83 | 4.472 | 4.472 | (0.703) | 309858 | 27.1555 | 27.1555 | |
| | 59 tert-Amyl Ethylether | 59 | 4.561 | 4.562 | (1.047) | 808676 | 48.4529 | 48.4529 | |
| | 60 Dibromomethane | 93 | 4.715 | 4.712 | (1.082) | 265406 | 48.8052 | 48.8052 | |
| | 61 1,2-Dichloropropane | 63 | 4.770 | 4.773 | (1.095) | 286830 | 47.6456 | 47.6456 | |
| | 62 Bromodichloromethane | 83 | 4.796 | 4.793 | (1.101) | 565317 | 48.7536 | 48.7536 | |
| | 63 Methyl methacrylate | 41 | 4.854 | 4.851 | (1.114) | 305743 | 42.5562 | 42.5562 | |
| | 65 2-Chloroethylvinyl ether | 63 | 5.117 | 5.115 | (1.175) | 138726 | 41.3784 | 41.3784 | |
| | 66 cis-1,3-Dichloropropene | 75 | 5.181 | 5.181 | (0.814) | 602499 | 42.9251 | 42.9251 | |
| | 67 Octane | 85 | 5.198 | 5.196 | (0.817) | 104451 | 23.4079 | 23.4079(R) | |
| $ | 68 Toluene-d8 | 98 | 5.308 | 5.309 | (0.834) | 955210 | 29.9612 | 29.9612 | |
| | 69 Toluene | 92 | 5.343 | 5.343 | (0.839) | 859255 | 43.9030 | 43.9030 | |
| | 70 Chloroacetonitrile | 75 | 5.378 | 5.375 | (0.845) | 137361 | 224.135 | 224.135 | |
| | 71 2-Nitropropane | 41 | 5.473 | 5.474 | (0.860) | 716554 | 215.079 | 215.079 | |
| | 72 1,1-Dichloro-2-propanone | 63 | 5.497 | 5.497 | (0.864) | 61221 | 221.990 | 221.990 | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.554 | 5.552 | (0.873) | 1559395 | 217.688 | 217.688 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.592 | 5.592 | (0.879) | 635338 | 43.8575 | 43.8575 | |
| | 74 Tetrachloroethene | 164 | 5.607 | 5.607 | (0.881) | 336774 | 39.5819 | 39.5819 | |

Data File: 2324062727.D Page 3
Report Date: 28-Jun-2024 11:45

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl methacrylate | 69 | 5.667 | 5.665 | (0.890) | 521439 | 43.8718 | 43.8718 | |
| | 77 1,1,2-Trichloroethane | 83 | 5.708 | 5.703 | (0.897) | 281703 | 48.5048 | 48.5048 | |
| | 78 Chlorodibromomethane | 129 | 5.841 | 5.839 | (0.918) | 520539 | 44.1304 | 44.1304 | |
| | 79 1,3-Dichloropropane | 76 | 5.902 | 5.899 | (0.927) | 595765 | 48.8996 | 48.8996 | |
| | 80 1,2-Dibromoethane | 107 | 6.021 | 6.021 | (0.946) | 403561 | 47.4643 | 47.4643 | |
| | 81 2-Hexanone | 43 | 6.119 | 6.117 | (0.961) | 1128361 | 213.554 | 213.554 | |
| | 82 1-Chlorohexane | 91 | 6.336 | 6.334 | (0.995) | 320230 | 31.3423 | 31.3423 | |
| * | 83 Chlorobenzene-d5 | 82 | 6.365 | 6.366 | (1.000) | 399984 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | 6.383 | 6.380 | (1.003) | 494437 | 41.7383 | 41.7383 | |
| | 84 Chlorobenzene | 112 | 6.377 | 6.377 | (1.002) | 1037095 | 46.1314 | 46.1314 | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | 6.414 | 6.415 | (1.008) | 443571 | 48.0973 | 48.0973 | |
| | 87 mp-Xylene | 106 | 6.484 | 6.481 | (1.019) | 1211686 | 84.6006 | 84.6006 | |
| M | 120 1,3-Dichloropropene, Total | 75 | | | | 1237837 | 86.7826 | 86.7826 | |
| | 88 o-Xylene | 106 | 6.802 | 6.800 | (1.069) | 631671 | 44.8665 | 44.8665 | |
| | 89 Styrene | 104 | 6.837 | 6.837 | (0.839) | 1101751 | 44.5043 | 44.5043 | |
| | 90 Bromoform | 173 | 6.872 | 6.869 | (0.844) | 400603 | 45.7796 | 45.7796 | |
| | 91 Isopropylbenzene | 105 | 7.031 | 7.031 | (0.863) | 1318726 | 37.5146 | 37.5146 | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.257 | 7.254 | (0.891) | 383845 | 29.9673 | 29.9673 | |
| M | 121 TOTAL XYLENES | 106 | | | | 1843357 | 129.467 | 129.467 | |
| | 94 n-Propylbenzene | 120 | 7.350 | 7.350 | (0.902) | 386856 | 37.1472 | 37.1472 | |
| | 93 Bromobenzene | 156 | 7.350 | 7.350 | (0.902) | 513635 | 46.7017 | 46.7017 | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | 7.390 | 7.388 | (0.907) | 457001 | 50.2458 | 50.2458 | |
| | 97 1,3,5-Trimethylbenzene | 105 | 7.494 | 7.495 | (0.920) | 1267140 | 41.2689 | 41.2689 | |
| | 96 o-Chlorotoluene | 91 | 7.486 | 7.486 | (0.919) | 1244411 | 43.8135 | 43.8135 | |
| | 98 1,2,3-Trichloropropane | 110 | 7.509 | 7.506 | (0.922) | 190058 | 49.2612 | 49.2612 | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | 7.529 | 7.527 | (0.924) | 153062 | 42.4719 | 42.4719 | |
| | 101 p-Chlorotoluene | 91 | 7.613 | 7.611 | (0.935) | 1176494 | 44.8006 | 44.8006 | |
| | 102 tert-Butylbenzene | 134 | 7.758 | 7.755 | (0.952) | 291574 | 37.9240 | 37.9240 | |
| | 103 Pentachloroethane | 117 | 7.781 | 7.781 | (0.955) | 289594 | 39.9717 | 39.9717(QM) | MP |
| | 104 1,2,4-Trimethylbenzene | 105 | 7.807 | 7.807 | (0.958) | 1354467 | 43.4341 | 43.4341 | |
| | 105 sec-Butylbenzene | 105 | 7.900 | 7.897 | (0.970) | 1297680 | 35.4948 | 35.4948 | |
| | 106 p-Isopropyltoluene | 134 | 8.007 | 8.007 | (0.983) | 328720 | 37.2243 | 37.2243 | |
| | 107 1,3-Dichlorobenzene | 146 | 8.088 | 8.088 | (0.993) | 873220 | 45.0601 | 45.0601 | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 8.146 | 8.143 | (1.000) | 442755 | 30.0000 | | |
| | 109 1,4-Dichlorobenzene | 146 | 8.157 | 8.158 | (1.001) | 891375 | 44.8715 | 44.8715 | |
| | 111 n-Butylbenzene | 134 | 8.354 | 8.355 | (1.026) | 283958 | 34.7442 | 34.7442 | |
| | 110 Benzyl Chloride | 126 | 8.351 | 8.349 | (1.025) | 178344 | 37.1506 | 37.1506(Q) | |
| | 112 Hexachloroethane | 117 | 8.496 | 8.497 | (1.043) | 260062 | 37.4442 | 37.4442 | |
| | 113 1,2-Dichlorobenzene | 146 | 8.505 | 8.505 | (1.044) | 888111 | 47.2081 | 47.2081 | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | 9.168 | 9.174 | (1.125) | 121069 | 48.2583 | 48.2583 | |
| | 115 Nitrobenzene | 77 | 9.643 | 9.640 | (1.184) | 454201 | 417.121 | 417.121 | |
| | 116 Hexachlorobutadiene | 225 | 9.721 | 9.718 | (1.193) | 207547 | 32.0714 | 32.0714 | |
| | 117 1,2,4-Trichlorobenzene | 180 | 9.744 | 9.744 | (1.196) | 580500 | 44.5965 | 44.5965 | |
| | 118 Naphthalene | 128 | 10.013 | 10.014 | (1.229) | 1644892 | 45.0772 | 45.0772 | |
| | 119 1,2,3-Trichlorobenzene | 180 | 10.164 | 10.167 | (1.248) | 594031 | 46.1186 | 46.1186(M) | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

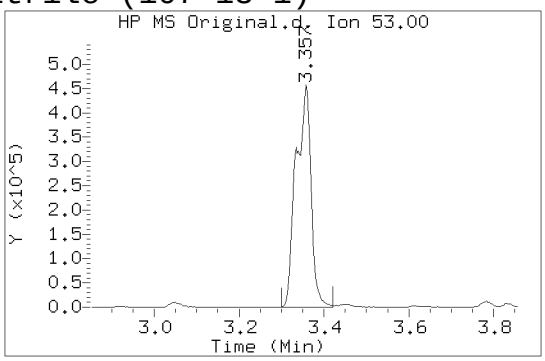

Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane+
-Pentane+
-Ethyl Ether
-Carbon Disulfide
-Iodomethane
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Methyl acrylate+
-1,1,1-Trichloroethane+
-1,1-Dichloropropene+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-1,2-Dichloroethene, Total
-Bromoform
-o-Xylene
-Styrene
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane
n-Propylbenzene+
-p-Chlorotoluene
1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Total Xylenes
-Nitrobenzene
-Hexachlorobutadiene
1,2,4-Trichlorobenzene
-Naphthalene
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Client ID:
Sample Info: 1801;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms23,i
Operator: ILY
Column diameter: 0.25
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Page 1

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Inj Date : 27-JUN-2024 19:48
InstruID : ms23.i
LabSampID : 1801

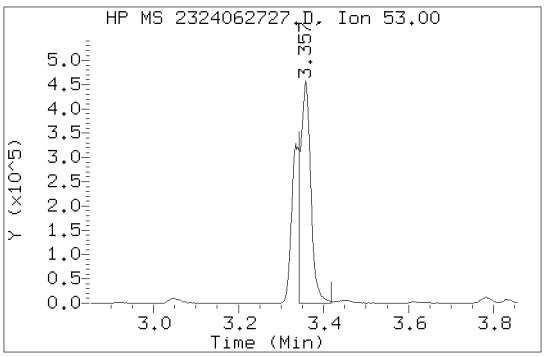
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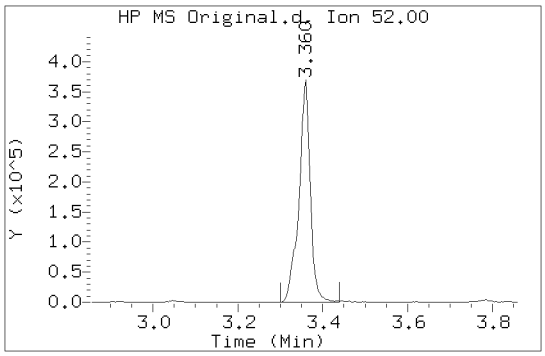
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MASS
53
AREA
1120533
HEIGHT
457536
28-Jun-2024
08:59



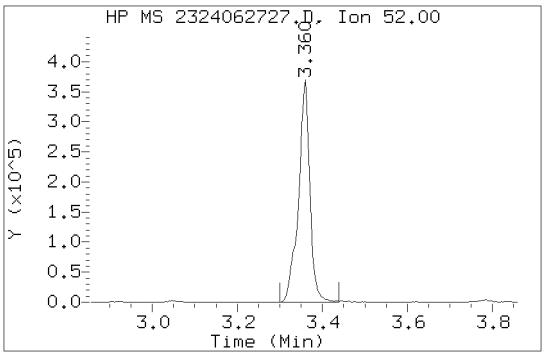

AFTER
MASS
53
AREA
754273
HEIGHT
457536
28-Jun-2024
11:45



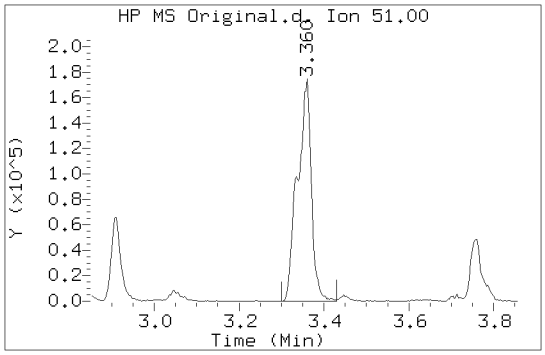

BEFORE
MASS
52
AREA
677003
HEIGHT
369728
28-Jun-2024
08:59



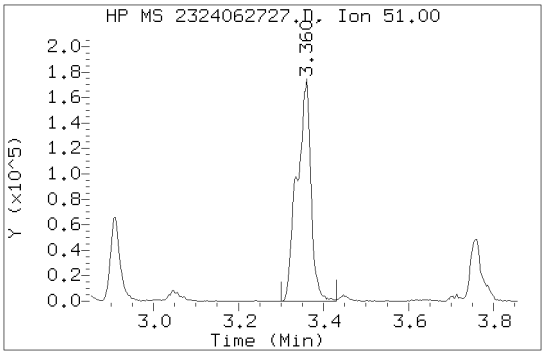

AFTER
MASS
52
AREA
677003
HEIGHT
369728
28-Jun-2024
11:45




BEFORE
MASS
51
AREA
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HEIGHT
174496
28-Jun-2024
08:59



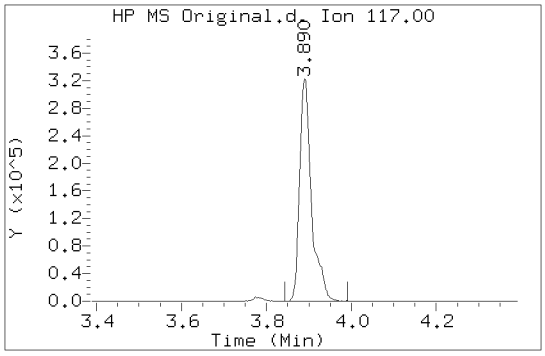

AFTER
MASS
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AREA
392526
HEIGHT
174496
28-Jun-2024
11:45



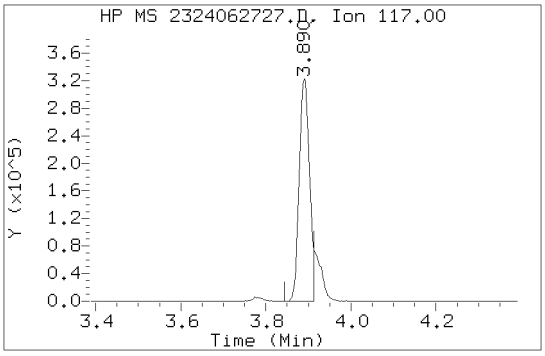

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

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MASS
117
AREA
620801
HEIGHT
322496
28-Jun-2024
08:59




AFTER
MASS
117
AREA
537479
HEIGHT
322496
28-Jun-2024
11:45

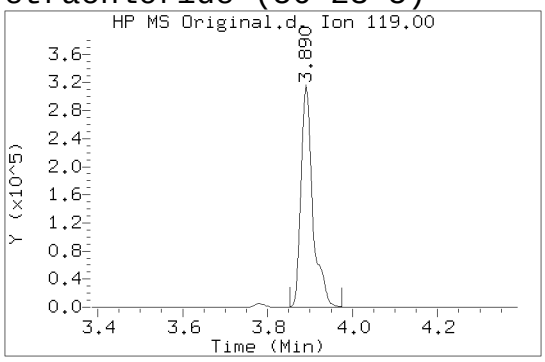


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Inj Date : 27-JUN-2024 19:48
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LabSampID : 1801

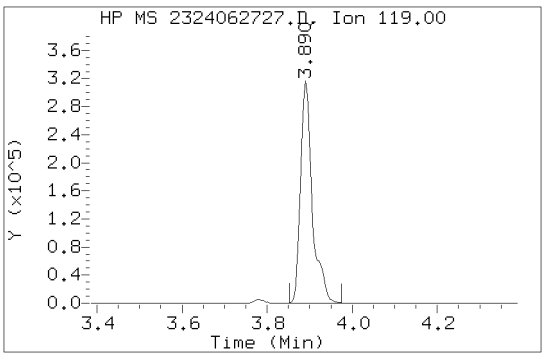
## Carbon Tetrachloride (56-23-5)

Reason Code: MP

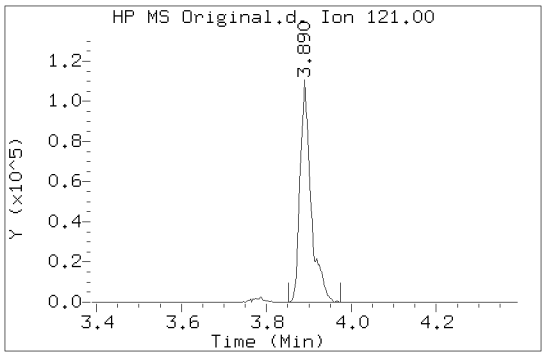
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MASS
119
AREA
600957
HEIGHT
316411
28-Jun-2024
08:59



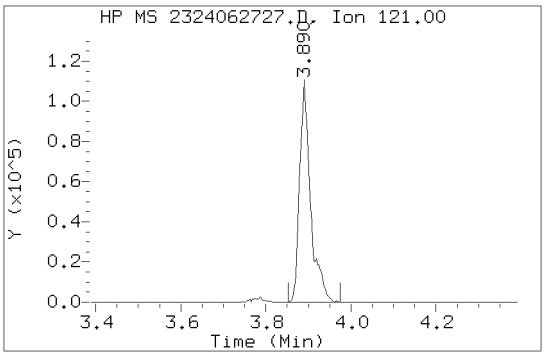

AFTER
MASS
119
AREA
600957
HEIGHT
316411
28-Jun-2024
11:45




BEFORE
MASS
121
AREA
194420
HEIGHT
110664
28-Jun-2024
08:59



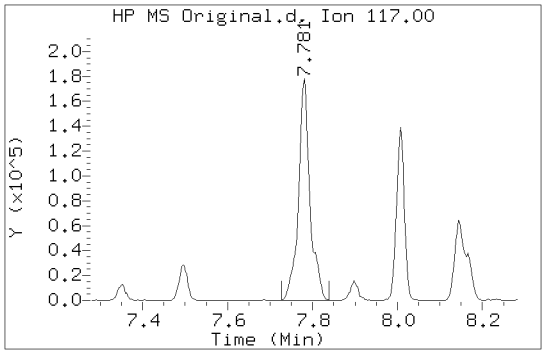

AFTER
MASS
121
AREA
194420
HEIGHT
110664
28-Jun-2024
11:45



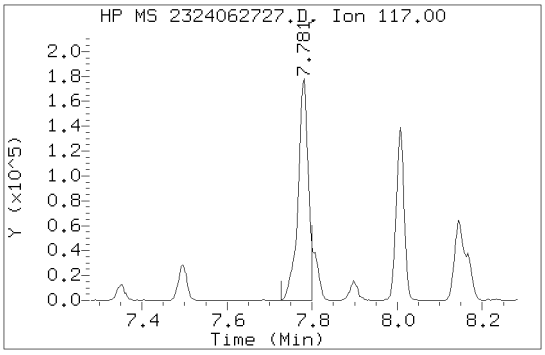

## Pentachloroethane (76-01-7)

Reason Code: MP

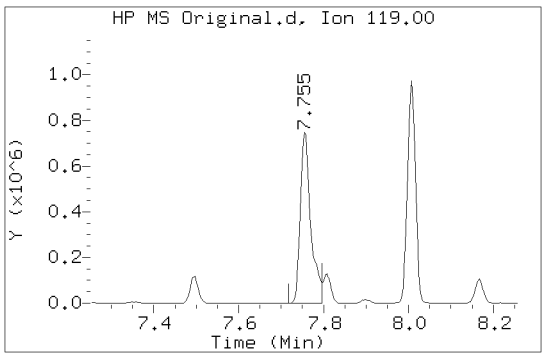
BEFORE
MASS
117
AREA
329521
HEIGHT
178176
28-Jun-2024
08:59



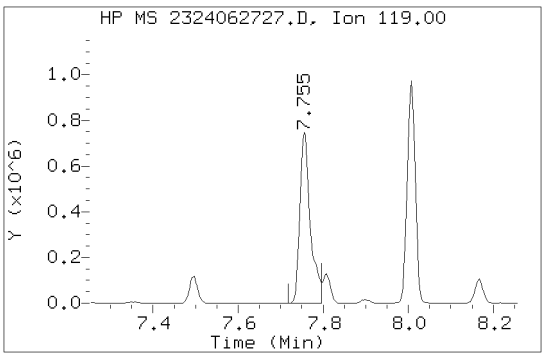

AFTER
MASS
117
AREA
289594
HEIGHT
178176
28-Jun-2024
11:45




BEFORE
MASS
119
AREA
1268140
HEIGHT
747863
28-Jun-2024
08:59




AFTER
MASS
119
AREA
1268140
HEIGHT
747863
28-Jun-2024
11:45



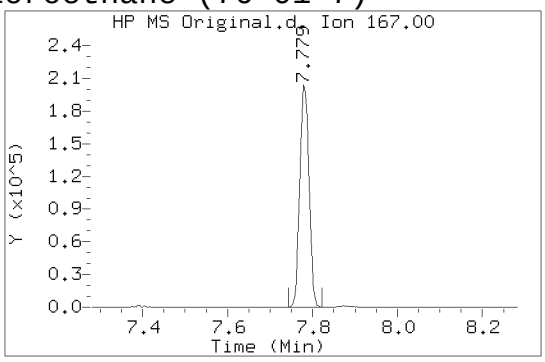
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InstruID : ms23.i
LabSampID : 1801

## Pentachloroethane (76-01-7)

Reason Code: MP

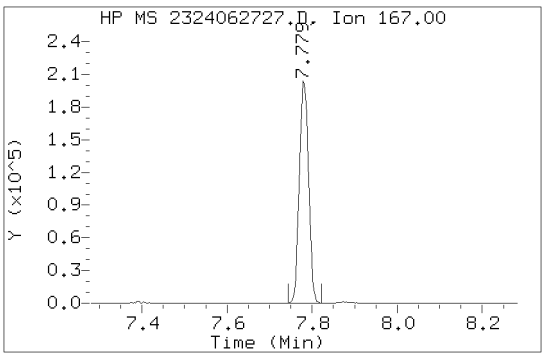
**BEFORE**

MASS
167
AREA
303275
HEIGHT
204032
28-Jun-2024
08:59




**AFTER**

MASS
167
AREA
303275
HEIGHT
204032
28-Jun-2024
11:45

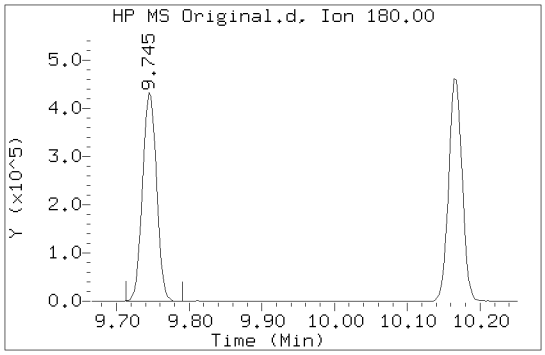



## 1,2,3-Trichlorobenzene (87-61-6)

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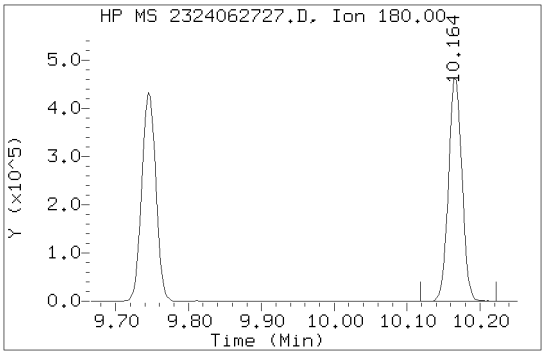
**BEFORE**

MASS
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AREA
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HEIGHT
432080
28-Jun-2024
08:59



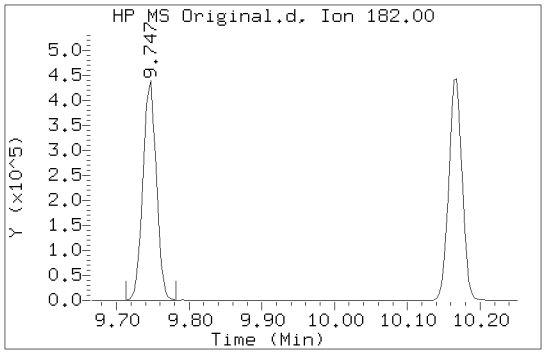

**AFTER**

MASS
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AREA
594031
HEIGHT
460464
28-Jun-2024
11:45



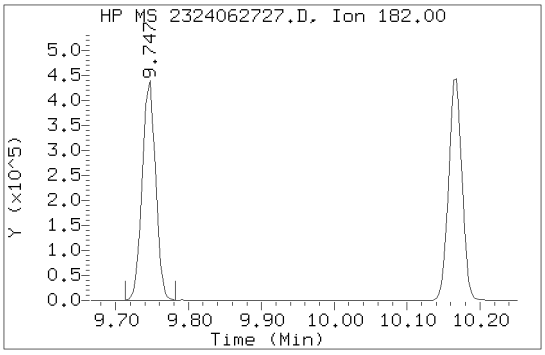

**BEFORE**

MASS
182
AREA
564279
HEIGHT
438969
28-Jun-2024
08:59




**AFTER**

MASS
182
AREA
564279
HEIGHT
438969
28-Jun-2024
11:45

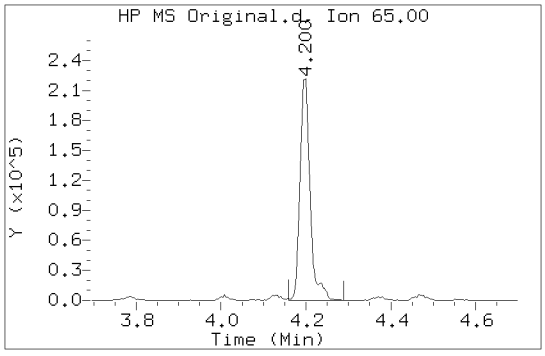



## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

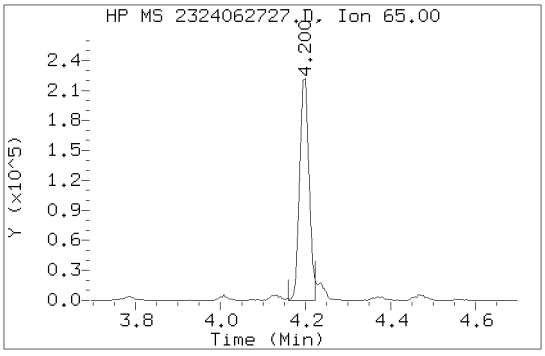
**BEFORE**

MASS
65
AREA
362320
HEIGHT
221760
28-Jun-2024
08:59




**AFTER**

MASS
65
AREA
338055
HEIGHT
221760
28-Jun-2024
11:45

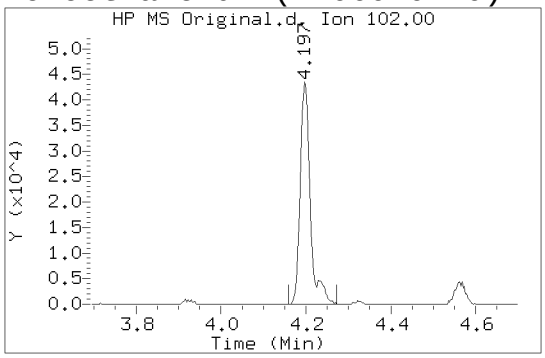


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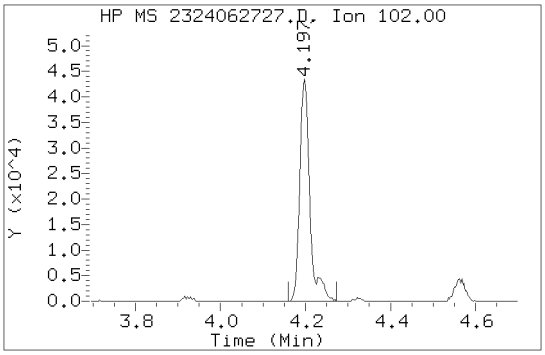
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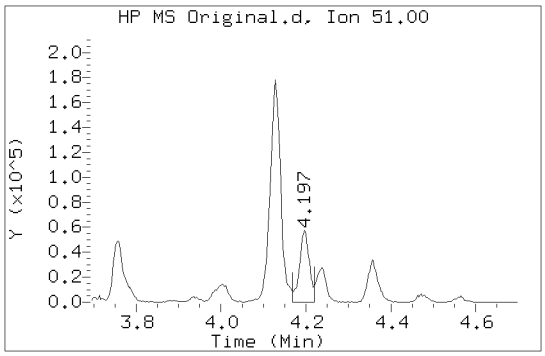
BEFORE
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102
AREA
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HEIGHT
43504
28-Jun-2024
08:59



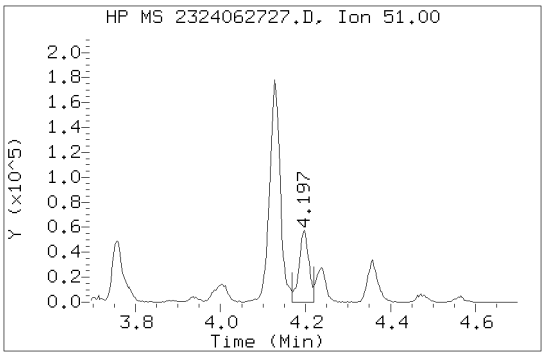

AFTER
MASS
102
AREA
70635
HEIGHT
43504
28-Jun-2024
11:45




BEFORE
MASS
51
AREA
92202
HEIGHT
57584
28-Jun-2024
08:59




AFTER
MASS
51
AREA
92202
HEIGHT
57584
28-Jun-2024
11:45



# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 11:45
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240627.b/232406272
Inj Date: 27-JUN-2024 19:48
Operator: ILY

There were no Unassigned peaks in this sample!

right solutions.
right partner.

# Raw Data 25240625

## Volatiles by EPA 8260D

Workorder

**3366027**

Client

ALS Houston

Project

AHH131|HS24061196

07/09/2024

www.alsglobal.com

Data File: 2524062500.D Page 1
Report Date: 25-Jun-2024 21:11

ALS Environmental Services

BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062500.D
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Inj Date : 25-JUN-2024 09:52
Operator : ILY Inst ID: ms25.i
Smp Info : 1000
Misc Info :
Comment :
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Meth Date : 13-Sep-2023 15:55 bsimms Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAMDTW7026

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

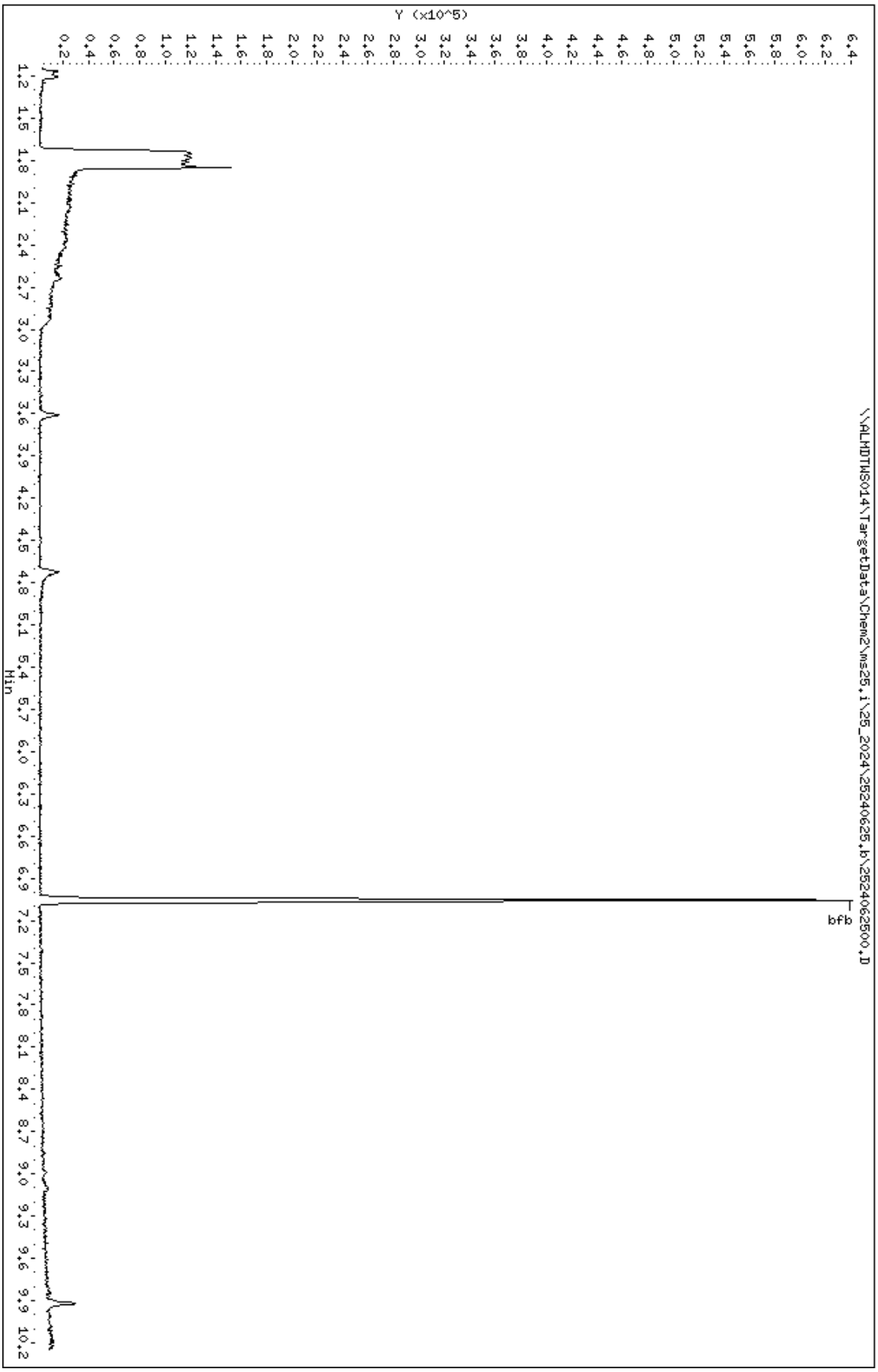
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|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vf | 1.000 | Volumetric correction factor |
| Vi | 1.000 | Injection Volume |
| Cpnd Variable | | Local Compound Variable |

| | | | | | CONCENTRATIONS ON-COL ( ug/L) | FINAL ( ug/L) | | |
|---|---|---|---|---|---|---|---|---|
| RT | EXP RT | REL RT | MASS | RESPONSE | | | TARGET RANGE | RATIO |
| 1 bfb | | | | | | | CAS #: 460-00-4 | |
| 7.057 | 8.129 | ( 0.000) | 95 | 112296 | | | 0.00- 100.00 | 100.00 |
| 7.057 | 8.129 | ( 0.000) | 50 | 18776 | | | 15.00- 40.00 | 16.72 |
| 7.057 | 8.129 | ( 0.000) | 75 | 52448 | | | 30.00- 60.00 | 46.71 |
| 7.057 | 8.129 | ( 0.000) | 96 | 7984 | | | 5.00- 9.00 | 7.11 |
| 7.057 | 8.129 | ( 0.000) | 173 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 7.057 | 8.129 | ( 0.000) | 174 | 104984 | | | 50.00- 0.00 | 93.49 |
| 7.057 | 8.129 | ( 0.000) | 175 | 8844 | | | 5.00- 9.00 | 8.42 |
| 7.057 | 8.129 | ( 0.000) | 176 | 104216 | | | 95.00- 101.00 | 99.27 |
| 7.057 | 8.129 | ( 0.000) | 177 | 6298 | | | 5.00- 9.00 | 6.04 |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 16.72 |
| 75 | 30.00 - 60.00% of mass 95 | 46.71 |
| 96 | 5.00 - 9.00% of mass 95 | 7.11 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 93.49 |
| 175 | 5.00 - 9.00% of mass 174 | 7.88 ( 8.42) |
| 176 | 95.00 - 101.00% of mass 174 | 92.80 ( 99.27) |
| 177 | 5.00 - 9.00% of mass 176 | 5.61 ( 6.04) |

Data File: 2524062500.D
Spectrum: Avg. Scans 1084-1086 ( 7.06), Background Scan 1077
Location of Maximum: 95.00
Number of points: 90

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 878 | 63.00 | 4033 | 91.00 | 717 | 135.00 | 206 |
| 37.00 | 4617 | 64.00 | 365 | 92.00 | 3363 | 137.00 | 282 |
| 38.00 | 4815 | 67.00 | 329 | 93.00 | 4897 | 141.00 | 1172 |
| 39.00 | 1768 | 68.00 | 10547 | 94.00 | 13036 | 142.00 | 251 |
| 40.00 | 333 | 69.00 | 10385 | 95.00 | 112296 | 143.00 | 1323 |
| 43.00 | 55 | 70.00 | 816 | 96.00 | 7984 | 146.00 | 154 |
| 44.00 | 630 | 72.00 | 618 | 97.00 | 360 | 148.00 | 374 |
| 45.00 | 922 | 73.00 | 5006 | 104.00 | 480 | 152.00 | 114 |
| 46.00 | 165 | 74.00 | 19224 | 105.00 | 186 | 154.00 | 79 |
| 47.00 | 1141 | 75.00 | 52448 | 106.00 | 451 | 155.00 | 261 |
| 48.00 | 668 | 76.00 | 4690 | 107.00 | 96 | 158.00 | 58 |
| 49.00 | 4345 | 77.00 | 434 | 111.00 | 71 | 159.00 | 58 |
| 50.00 | 18776 | 78.00 | 266 | 113.00 | 63 | 161.00 | 54 |
| 51.00 | 5851 | 79.00 | 3765 | 115.00 | 335 | 172.00 | 1160 |
| 52.00 | 298 | 80.00 | 1102 | 116.00 | 557 | 174.00 | 104984 |
| 55.00 | 297 | 81.00 | 3762 | 117.00 | 700 | 175.00 | 8844 |
| 56.00 | 2095 | 82.00 | 874 | 118.00 | 643 | 176.00 | 104216 |
| 57.00 | 2561 | 83.00 | 53 | 119.00 | 637 | 177.00 | 6298 |
| 58.00 | 199 | 86.00 | 72 | 123.00 | 59 | 178.00 | 54 |
| 59.00 | 87 | 87.00 | 4862 | 128.00 | 429 | 207.00 | 146 |
| 60.00 | 908 | 88.00 | 4831 | 129.00 | 125 | 251.00 | 59 |
| 61.00 | 5090 | 89.00 | 67 | 130.00 | 386 | | |
| 62.00 | 4861 | 90.00 | 56 | 131.00 | 261 | | |


Data File: \\ALMDTWS014\TargetData\Chem2\ms25_i\25_2024\25240625_b\25240625 00.D
Date : 25-JUN-2024 09:52
Client ID:
Sample Info: 1000
Volume Injected (uL): 1.0
Column phase: DB624
Instrument: ms25_i
Operator: ILY
Column diameter: 0.53
Page 1
Y (x10^5)
\\ALMDTWS014\TargetData\Chem2\ms25_i\25_2024\25240625_b\25240625 00.D
bfb
Min

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062500.D
Inj Date  : 25-JUN-2024 09:52
InstruID  : ms25.i
LabSampID : 1000

NO MANUAL INTEGRATIONS

Data File: 2524062503.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062503.D
Lab Smp Id: VSTD00.5
Inj Date : 25-JUN-2024 11:03
Operator : ILY Inst ID: ms25.i
Smp Info : VSTD00.5;;1;1;8;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\25-8260b09.m
Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 3 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.497 | 1.497 | (0.359) | 7403 | 0.50000 | 0.609970(a) | |
| 2 Chloromethane | 50 | 1.644 | 1.645 | (0.394) | 7701 | 0.50000 | 0.611694(a) | |
| 3 Vinyl Chloride | 62 | 1.704 | 1.705 | (0.409) | 8472 | 0.50000 | 0.617487(a) | |
| 4 Bromomethane | 94 | 1.922 | 1.923 | (0.461) | 6439 | 0.50000 | 0.549339(a) | |
| 5 Chloroethane | 64 | 2.004 | 2.005 | (0.481) | 7553 | 0.50000 | 0.512149(a) | |
| 6 Pentane | 41 | 2.091 | 2.092 | (0.502) | 13487 | 0.50000 | 0.552296(aQ) | |
| 7 Trichlorofluoromethane | 101 | 2.097 | 2.103 | (0.503) | 11132 | 0.50000 | 0.592347(a) | |
| 8 Dichlorofluoromethane | 67 | 2.124 | 2.125 | (0.509) | 7544 | 0.50000 | 0.433835(a) | |
| 9 Ethyl Ether | 74 | 2.272 | 2.278 | (0.545) | 2339 | 0.50000 | 0.442329(aQ) | |
| 10 1,1-Dichloroethene | 61 | 2.413 | 2.409 | (0.579) | 4727 | 0.50000 | 0.447977(a) | |
| 11 Freon 113 | 101 | 2.435 | 2.425 | (0.584) | 3186 | 0.50000 | 0.429279(a) | |
| 12 Carbon Disulfide | 76 | 2.446 | 2.447 | (0.587) | 10727 | 0.50000 | 0.471259(a) | |
| 13 Iodomethane | 127 | 2.506 | 2.507 | (0.601) | 1008 | 0.50000 | 0.755321(a) | |
| 14 Acrolein | 56 | 2.599 | 2.600 | (0.623) | 4363 | 2.50000 | 2.56343 | |
| 15 Isopropyl Alcohol | 45 | 2.653 | 2.654 | (0.636) | 3328 | 2.50000 | 2.88058 | |
| 16 3-Chloro-1-propene | 41 | 2.686 | 2.676 | (0.644) | 3005 | 0.50000 | 0.499977(a) | |
| 17 Methylene Chloride | 84 | 2.741 | 2.741 | (0.657) | 3732 | 0.50000 | 0.432985(a) | |
| 18 Acetone | 58 | 2.757 | 2.752 | (0.661) | 2467 | 2.50000 | 2.58339(Q) | |
| 19 Methyl acetate | 74 | 2.817 | 2.812 | (0.676) | 2035 | 0.50000 | 0.623791(aQ) | |
| 20 trans-1,2-Dichloroethene | 61 | 2.828 | 2.829 | (0.678) | 4448 | 0.50000 | 0.430387(a) | |
| 21 Hexane | 57 | 2.861 | 2.867 | (0.686) | 15367 | 0.50000 | 0.605676(a) | |

Data File: 2524062503.D
Report Date: 25-Jun-2024 19:32



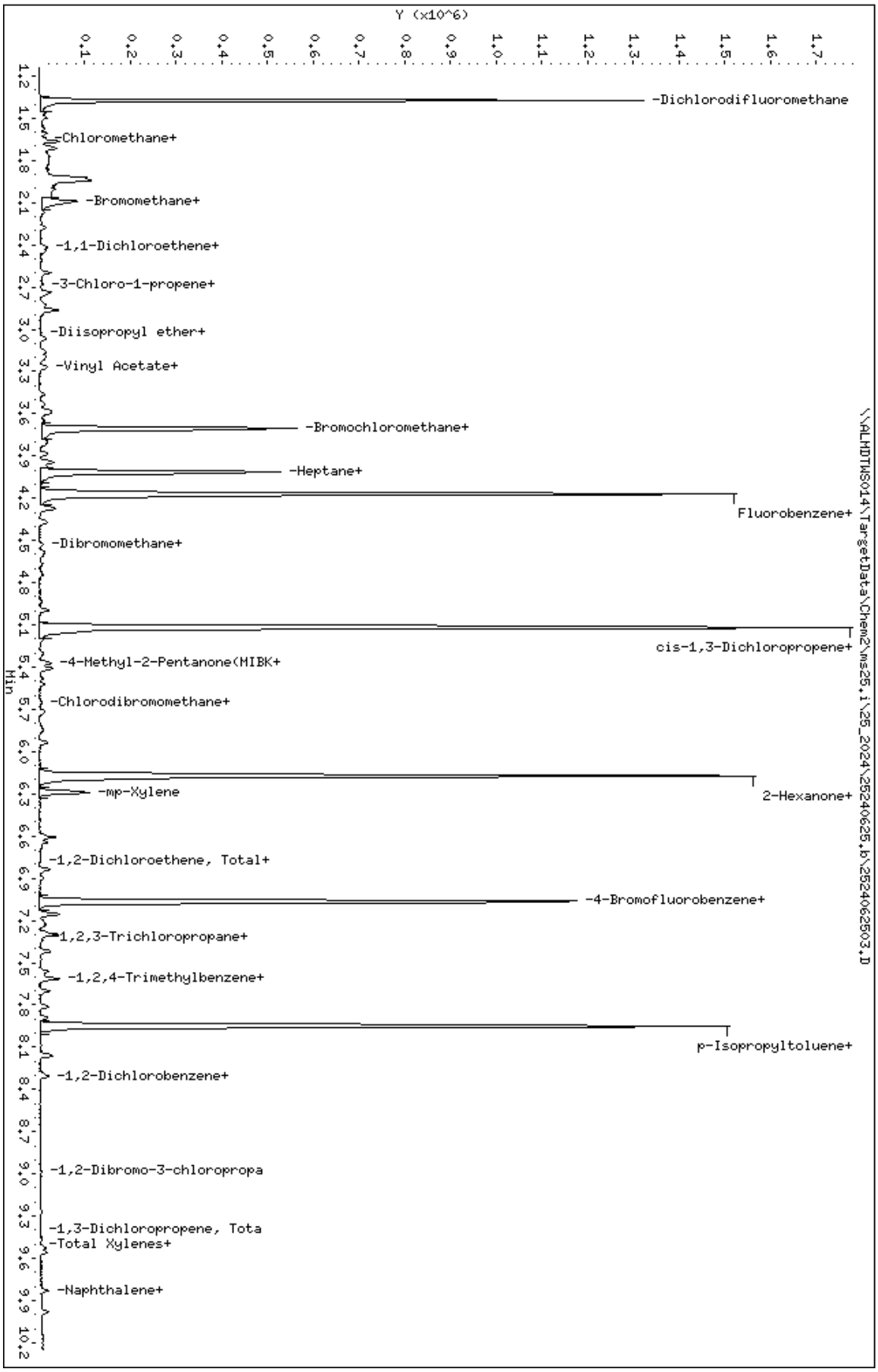
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | 2.877 | 2.872 | (0.690) | 9076 | 0.50000 | 0.571782(aQ) | |
| | 23 tert.- Butyl Alcohol | 59 | 2.894 | 2.889 | (0.694) | 2093 | 2.50000 | 2.19551 | |
| | 24 Acetonitrile | 41 | 3.019 | 3.020 | (0.724) | 2461 | 2.50000 | 2.30464(QM) | MP |
| | 25 Diisopropyl ether | 45 | 3.063 | 3.063 | (0.734) | 9459 | 0.50000 | 0.412394(a) | |
| | 26 Chloroprene | 53 | 3.150 | 3.156 | (0.755) | 4938 | 0.50000 | 0.424640(a) | |
| | 27 1,1-Dichloroethane | 63 | 3.166 | 3.167 | (0.759) | 5914 | 0.50000 | 0.420026(aM) | IH |
| | 28 Acrylonitrile | 53 | 3.188 | 3.194 | (0.765) | 7287 | 2.50000 | 1.98720(M) | MP |
| | 29 Ethyl tert-butyl ether | 59 | 3.259 | 3.265 | (0.782) | 9807 | 0.50000 | 0.402571(a) | |
| | 30 n-Propanol | 41 | 3.265 | 3.260 | (0.783) | 2592 | 5.00000 | 5.73610(Q) | |
| | 31 Vinyl Acetate | 86 | 3.270 | 3.276 | (0.784) | 715 | 0.50000 | 0.677670(aQ) | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.461 | 3.462 | (0.830) | 4439 | 0.50000 | 0.423607(a) | |
| | 33 2,2-Dichloropropane | 77 | 3.527 | 3.522 | (0.846) | 5081 | 0.50000 | 0.452773(aM) | H |
| | 34 Bromochloromethane | 128 | 3.576 | 3.576 | (0.857) | 1835 | 0.50000 | 0.406063(aQ) | |
| | 35 Cyclohexane | 84 | 3.592 | 3.587 | (0.861) | 6021 | 0.50000 | 0.478859(aQ) | |
| | 36 Chloroform | 83 | 3.603 | 3.598 | (0.864) | 6590 | 0.50000 | 0.433555(a) | |
| | 37 Ethyl Acetate | 43 | 3.636 | 3.642 | (0.872) | 6710 | 0.50000 | 0.651771(a) | |
| | 38 Methyl acrylate | 55 | 3.652 | 3.653 | (0.876) | 3888 | 0.50000 | 0.460758(a) | |
| | 39 Carbon Tetrachloride | 117 | 3.696 | 3.696 | (0.886) | 2612 | 0.50000 | 0.647639(aM) | MP |
| $ | 41 Dibromofluoromethane | 113 | 3.707 | 3.707 | (0.889) | 251888 | 30.0000 | 29.1045 | |
| | 40 Tetrahydrofuran | 42 | 3.696 | 3.696 | (0.886) | 6336 | 2.50000 | 2.45613 | |
| | 42 1,1,1-Trichloroethane | 97 | 3.739 | 3.740 | (0.897) | 4628 | 0.50000 | 0.391178(a) | |
| | 43 2-Butanone | 72 | 3.761 | 3.767 | (0.902) | 2817 | 2.50000 | 2.25888(M) | MP |
| | 44 1,1-Dichloropropene | 75 | 3.799 | 3.800 | (0.911) | 5113 | 0.50000 | 0.456885(a) | |
| | 45 1-Chlorobutane | 41 | 3.821 | 3.822 | (0.916) | 4277 | 0.50000 | 0.594302(aQ) | |
| | 46 Heptane | 71 | 3.887 | 3.887 | (0.932) | 3571 | 0.50000 | 0.549236(aQ) | |
| | 47 Benzene | 78 | 3.941 | 3.942 | (0.945) | 17284 | 0.50000 | 0.502483(a) | |
| | 48 Propionitrile | 54 | 3.941 | 3.942 | (0.945) | 2748 | 2.50000 | 1.97899(Q) | |
| | 49 Methacrylonitrile | 67 | 3.952 | 3.953 | (0.948) | 2086 | 0.50000 | 0.501131(aQM) | H |
| | 50 tert-Amyl methyl ether | 73 | 3.974 | 3.975 | (0.953) | 9972 | 0.50000 | 0.424059(a) | |
| | 54 Isobutyl alcohol | 42 | 3.985 | 3.980 | (0.956) | 394 | 5.00000 | 5.86342(QM) | H |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.012 | 4.013 | (0.962) | 282446 | 30.0000 | 30.9588 | |
| | 52 1,2-Dichloroethane | 62 | 4.056 | 4.056 | (0.973) | 5311 | 0.50000 | 0.491166(aQ) | |
| | 53 tert-Amyl Alcohol | 59 | 4.061 | 4.062 | (0.974) | 1627 | 2.50000 | 2.22445 | |
| * | 55 Fluorobenzene | 96 | 4.170 | 4.171 | (1.000) | 1096864 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.170 | 4.171 | (1.000) | 44441 | 0.50000 | 0.646847(aQ) | |
| | 57 Trichloroethene | 95 | 4.263 | 4.269 | (1.022) | 4490 | 0.50000 | 0.515766(aQM) | H |
| | 58 Methyl cyclohexane | 83 | 4.269 | 4.275 | (0.692) | 6441 | 0.50000 | 0.481087(a) | |
| | 59 tert-Amyl Ethylether | 59 | 4.367 | 4.373 | (1.047) | 7238 | 0.50000 | 0.613047(a) | |
| | 60 Dibromomethane | 93 | 4.525 | 4.526 | (1.085) | 2382 | 0.50000 | 0.432826(aQ) | |
| | 61 1,2-Dichloropropane | 63 | 4.580 | 4.586 | (1.098) | 3551 | 0.50000 | 0.428936(aQM) | H |
| | 62 Bromodichloromethane | 83 | 4.612 | 4.607 | (1.106) | 3592 | 0.50000 | 0.639622(a) | |
| | 63 Methyl methacrylate | 41 | 4.667 | 4.662 | (1.119) | 2494 | 0.50000 | 0.380651(aM) | IH |
| | 64 1,4-Dioxane | 88 | 4.716 | 4.722 | (1.131) | 1683 | 12.5000 | 13.1326(Q) | |
| | 65 2-Chloroethylvinyl ether | 63 | 4.940 | 4.935 | (1.184) | 1903 | 0.50000 | 0.682108(aM) | IH |
| | 66 cis-1,3-Dichloropropene | 75 | 4.994 | 4.995 | (0.809) | 4396 | 0.50000 | 0.594491(a) | |
| | 67 Octane | 85 | 5.000 | 5.000 | (0.810) | 2623 | 0.50000 | 0.516704(a) | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 1019938 | 30.0000 | 31.2109 | |
| | 69 Toluene | 92 | 5.147 | 5.153 | (0.834) | 11878 | 0.50000 | 0.573470(a) | |
| | 70 Chloroacetonitrile | 75 | 5.213 | 5.208 | (0.844) | 1271 | 2.50000 | 2.46156(QM) | H |
| | 71 2-Nitropropane | 41 | 5.294 | 5.300 | (0.858) | 3617 | 2.50000 | 3.45024(Q) | |
| | 72 1,1-Dichloro-2-Propanone | 63 | 5.311 | 5.317 | (0.860) | 307 | 2.50000 | 3.32513(QM) | H |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.371 | 5.371 | (0.870) | 15196 | 2.50000 | 2.86001 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.409 | 5.410 | (0.876) | 4340 | 0.50000 | 0.630336(a) | |
| | 74 Tetrachloroethene | 164 | 5.409 | 5.410 | (0.876) | 3437 | 0.50000 | 0.455706(a) | |

Data File: 2524062503.D Page 3
Report Date: 25-Jun-2024 19:32

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| 76 | Ethyl Methacrylate | 69 | 5.480 | 5.481 | (0.888) | 3766 | 0.50000 | 0.615569(aM) | H |
| 77 | 1,1,2-Trichloroethane | 83 | 5.518 | 5.524 | (0.894) | 2588 | 0.50000 | 0.406674(a) | |
| 78 | Chlorodibromomethane | 129 | 5.655 | 5.650 | (0.916) | 2392 | 0.50000 | 0.631711(a) | |
| 79 | 1,3-Dichloropropane | 76 | 5.709 | 5.710 | (0.925) | 5196 | 0.50000 | 0.413250(a) | |
| 80 | 1,2-Dibromoethane | 107 | 5.835 | 5.830 | (0.945) | 2751 | 0.50000 | 0.557407(a) | |
| 81 | 2-Hexanone | 43 | 5.938 | 5.933 | (0.962) | 9727 | 2.50000 | 2.83510 | |
| 82 | 1-Chlorohexane | 91 | 6.140 | 6.146 | (0.995) | 5263 | 0.50000 | 0.483003(aQ) | |
| * 83 | Chlorobenzene-d5 | 82 | 6.173 | 6.174 | (1.000) | 412754 | 30.0000 | | |
| 84 | Chlorobenzene | 112 | 6.184 | 6.184 | (1.002) | 9263 | 0.50000 | 0.438849(a) | |
| 85 | Ethylbenzene | 106 | 6.189 | 6.190 | (1.003) | 9240 | 0.50000 | 0.616459(a) | |
| 86 | 1,1,1,2-Tetrachloroethane | 131 | 6.217 | 6.223 | (1.007) | 2323 | 0.50000 | 0.607596(a) | |
| 87 | mp-Xylene | 106 | 6.293 | 6.288 | (1.019) | 30052 | 1.00000 | 1.27466 | |
| 88 | o-Xylene | 106 | 6.604 | 6.610 | (1.070) | 8690 | 0.50000 | 0.618661(a) | |
| 89 | Styrene | 104 | 6.648 | 6.648 | (0.836) | 7432 | 0.50000 | 0.629733(aM) | MP |
| 90 | Bromoform | 173 | 6.686 | 6.686 | (0.841) | 2337 | 0.50000 | 0.734051(aM) | IH |
| 91 | Isopropylbenzene | 105 | 6.839 | 6.839 | (0.860) | 13069 | 0.50000 | 0.562869(a) | |
| M 100 | 1,2-Dichloroethene, Total | 61 | | | | 8887 | 1.00000 | 0.853994(a) | |
| $ 92 | 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 319075 | 30.0000 | 31.0197 | |
| 93 | Bromobenzene | 156 | 7.155 | 7.156 | (0.900) | 3974 | 0.50000 | 0.452058(a) | |
| 94 | n-Propylbenzene | 120 | 7.161 | 7.156 | (0.901) | 4608 | 0.50000 | 0.512609(a) | |
| 95 | 1,1,2,2-Tetrachloroethane | 83 | 7.199 | 7.205 | (0.905) | 3602 | 0.50000 | 0.412247(aM) | IH |
| 96 | o-Chlorotoluene | 91 | 7.291 | 7.292 | (0.917) | 10588 | 0.50000 | 0.447681(a) | |
| 97 | 1,3,5-Trimethylbenzene | 105 | 7.302 | 7.303 | (0.918) | 12483 | 0.50000 | 0.498960(a) | |
| 98 | 1,2,3-Trichloropropane | 110 | 7.324 | 7.325 | (0.921) | 1088 | 0.50000 | 0.386077(aQ) | |
| 99 | trans-1,4-Dichloro-2-butene | 53 | 7.341 | 7.341 | (0.923) | 1054 | 0.50000 | 0.681032(aQM) | H |
| 101 | p-Chlorotoluene | 91 | 7.417 | 7.418 | (0.933) | 9948 | 0.50000 | 0.464370(a) | |
| 102 | tert-Butylbenzene | 134 | 7.564 | 7.559 | (0.951) | 2578 | 0.50000 | 0.430850(aQ) | |
| 103 | Pentachloroethane | 117 | 7.581 | 7.581 | (0.953) | 2125 | 0.50000 | 0.643645(aM) | H |
| 104 | 1,2,4-Trimethylbenzene | 105 | 7.613 | 7.614 | (0.957) | 20714 | 0.50000 | 0.631945(a) | |
| 105 | sec-Butylbenzene | 105 | 7.701 | 7.707 | (0.968) | 13973 | 0.50000 | 0.451901(a) | |
| 106 | p-Isopropyltoluene | 134 | 7.815 | 7.816 | (0.983) | 2976 | 0.50000 | 0.420291(a) | |
| 107 | 1,3-Dichlorobenzene | 146 | 7.892 | 7.892 | (0.992) | 6216 | 0.50000 | 0.419711(a) | |
| * 108 | 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 371816 | 30.0000 | (Q) | |
| 109 | 1,4-Dichlorobenzene | 146 | 7.963 | 7.963 | (1.001) | 7283 | 0.50000 | 0.471776(aQ) | |
| 110 | Benzyl Chloride | 126 | 8.159 | 8.160 | (1.026) | 736 | 0.50000 | 0.666636(aQM) | IH |
| 111 | n-Butylbenzene | 134 | 8.159 | 8.160 | (1.026) | 3668 | 0.50000 | 0.554323(aQ) | |
| 112 | Hexachloroethane | 117 | 8.295 | 8.285 | (1.043) | 1752 | 0.50000 | 0.716686(aM) | IH |
| 113 | 1,2-Dichlorobenzene | 146 | 8.312 | 8.311 | (1.045) | 5854 | 0.50000 | 0.414954(a) | |
| 114 | 1,2-Dibromo-3-chloropropane | 75 | 8.983 | 8.984 | (1.130) | 380 | 0.50000 | 0.639575(aQM) | IH |
| 115 | Nitrobenzene | 77 | 9.469 | 9.464 | (1.191) | 1713 | 5.00000 | 3.55791 | |
| 116 | Hexachlorobutadiene | 225 | 9.523 | 9.524 | (1.198) | 1952 | 0.50000 | 0.667720(aM) | IH |
| M 120 | 1,3-Dichloropropene, Total | 75 | | | | 8736 | 1.00000 | 1.22483 | |
| 117 | 1,2,4-Trichlorobenzene | 180 | 9.556 | 9.556 | (1.202) | 4177 | 0.50000 | 0.447095(a) | |
| M 121 | Total Xylenes | 106 | | | | 38742 | 1.50000 | 1.89332 | |
| 118 | Naphthalene | 128 | 9.829 | 9.829 | (1.236) | 10056 | 0.50000 | 0.684099(a) | |
| 119 | 1,2,3-Trichlorobenzene | 180 | 9.981 | 9.982 | (1.255) | 3948 | 0.50000 | 0.665965(a) | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.




Data File: \\ALMDTMS014\TargetData\Chem2\ms25,i\25_2024\25240625,b\25240625b03,D
Date : 25-JUN-2024 11:03
Client ID:
Sample Info: VSTD00,5;;1;1;8;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25,i
Operator: ILY
Column diameter: 0.25

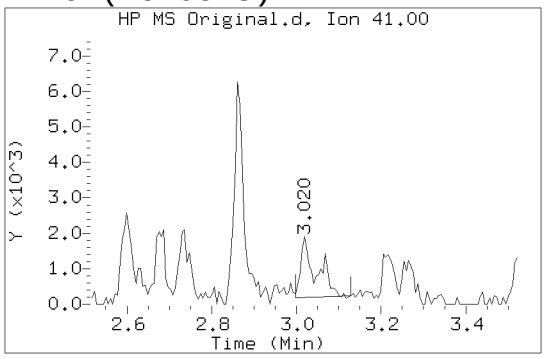
Page 1

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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

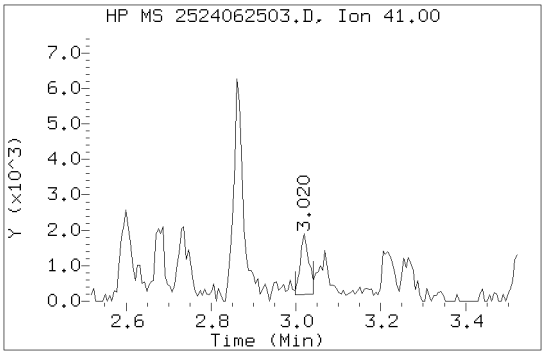
## Acetonitrile (75-05-8)

Reason Code: MP

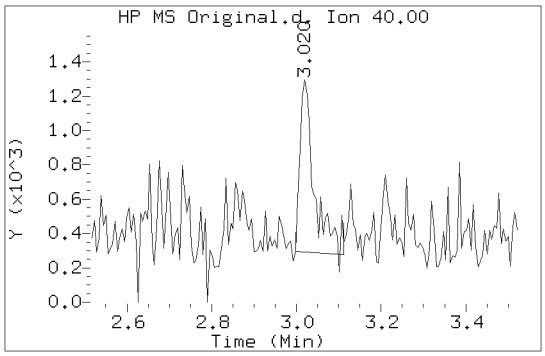
BEFORE
MASS
41
AREA
4244
HEIGHT
1719
25-Jun-2024
18:50



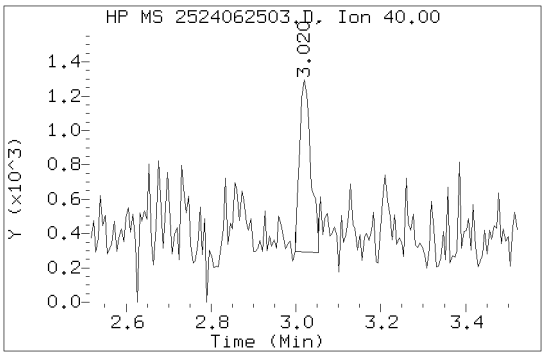

AFTER
MASS
41
AREA
2461
HEIGHT
1718
25-Jun-2024
19:32



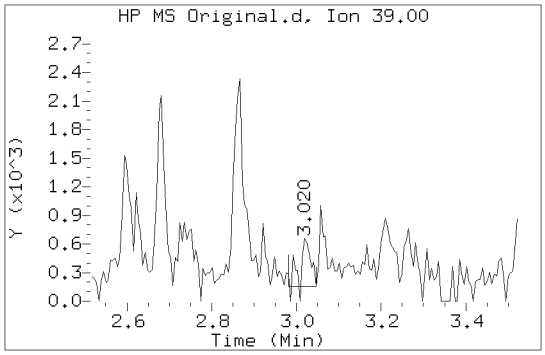

BEFORE
MASS
40
AREA
2348
HEIGHT
1002
25-Jun-2024
18:50



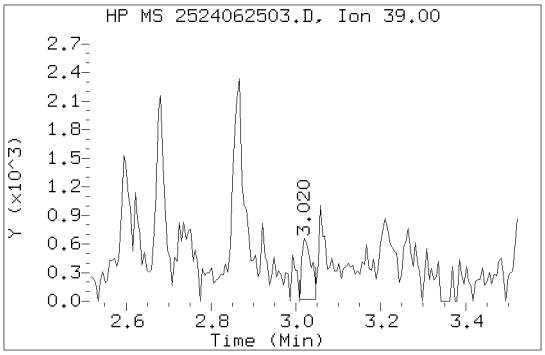

AFTER
MASS
40
AREA
1839
HEIGHT
1002
25-Jun-2024
19:32




BEFORE
MASS
39
AREA
841
HEIGHT
512
25-Jun-2024
18:50



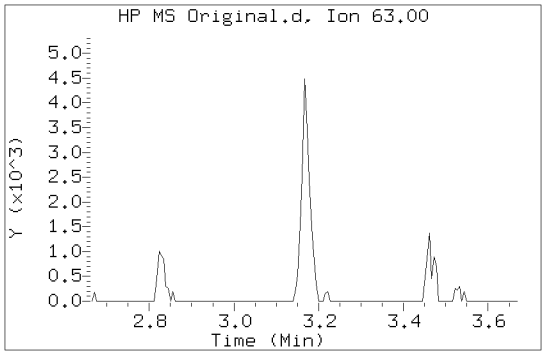

AFTER
MASS
39
AREA
967
HEIGHT
642
25-Jun-2024
19:32



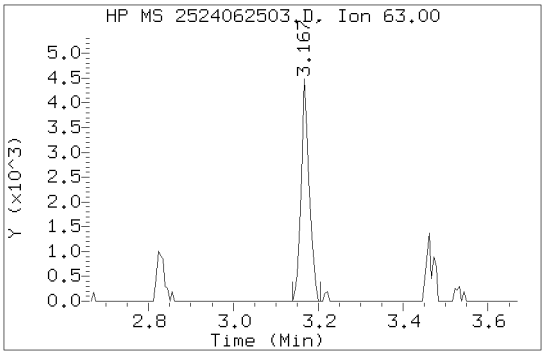

## 1,1-Dichloroethane (75-34-3)

Reason Code: IH

BEFORE
MASS
63
AREA
0
HEIGHT
0
25-Jun-2024
18:50




AFTER
MASS
63
AREA
5914
HEIGHT
4483
25-Jun-2024
19:32

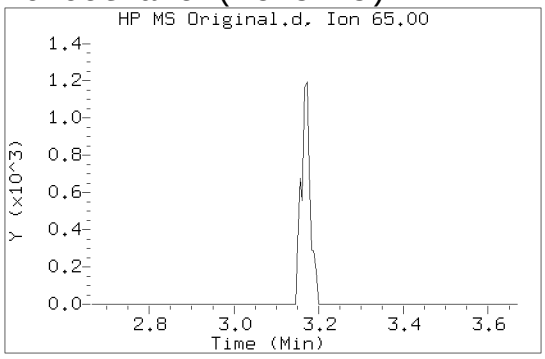


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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

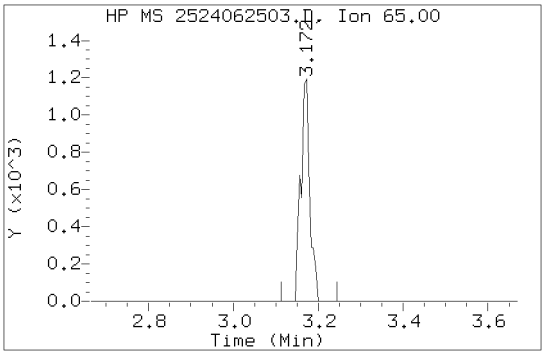
## 1,1-Dichloroethane (75-34-3)

Reason Code: IH

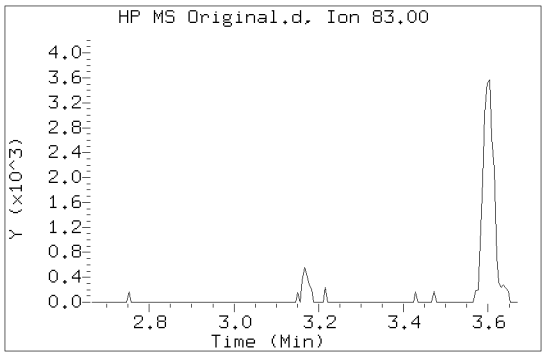
BEFORE
MASS
65
AREA
0
HEIGHT
0
25-Jun-2024
18:50



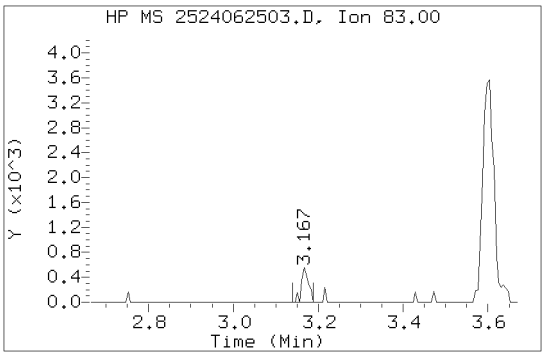

AFTER
MASS
65
AREA
1768
HEIGHT
1194
25-Jun-2024
19:32




BEFORE
MASS
83
AREA
0
HEIGHT
0
25-Jun-2024
18:50



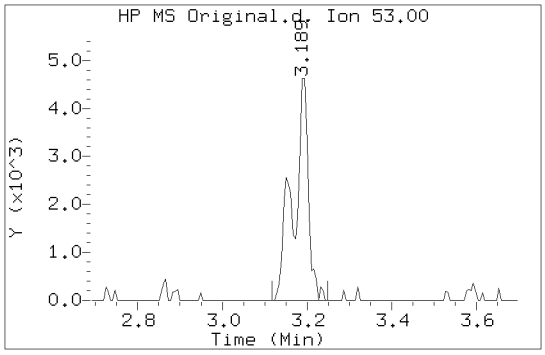

AFTER
MASS
83
AREA
641
HEIGHT
557
25-Jun-2024
19:32



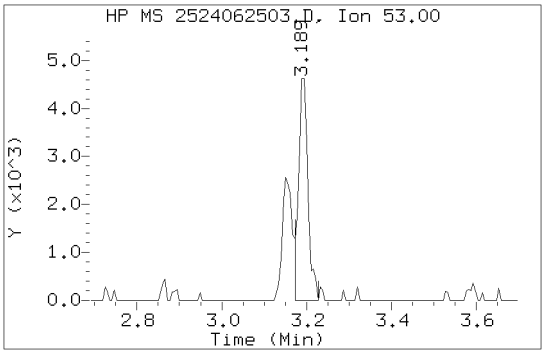

## Acrylonitrile (107-13-1)

Reason Code: MP

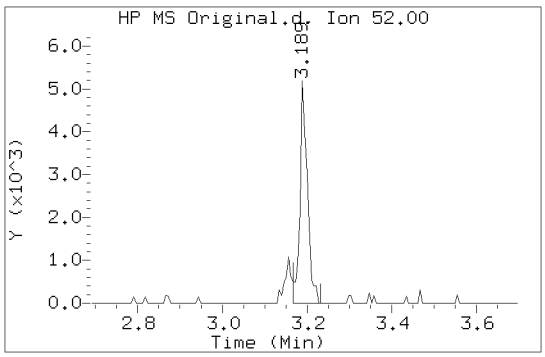
BEFORE
MASS
53
AREA
11395
HEIGHT
4620
25-Jun-2024
18:50



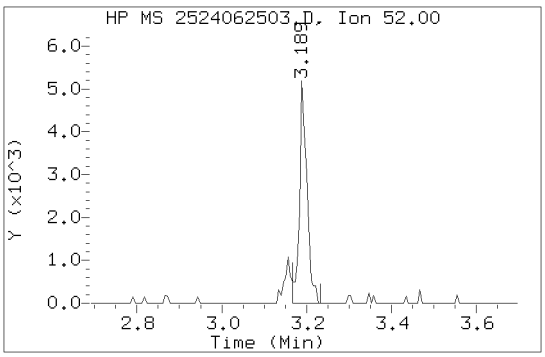

AFTER
MASS
53
AREA
7287
HEIGHT
4620
25-Jun-2024
19:32




BEFORE
MASS
52
AREA
6355
HEIGHT
5186
25-Jun-2024
18:50




AFTER
MASS
52
AREA
6355
HEIGHT
5186
25-Jun-2024
19:32

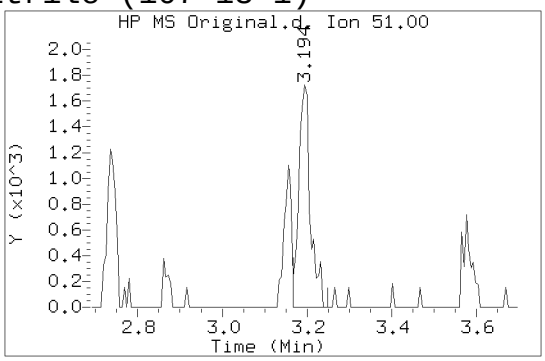


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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

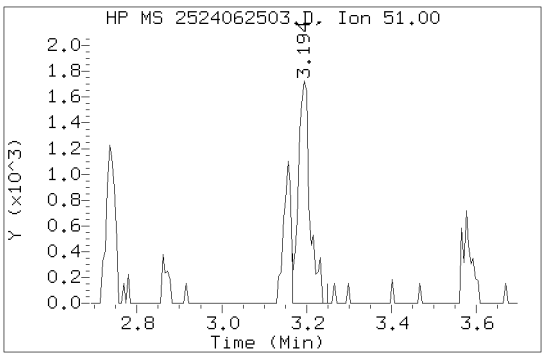
## Acrylonitrile (107-13-1)

Reason Code: MP

BEFORE
MASS
51
AREA
3306
HEIGHT
1726
25-Jun-2024
18:50



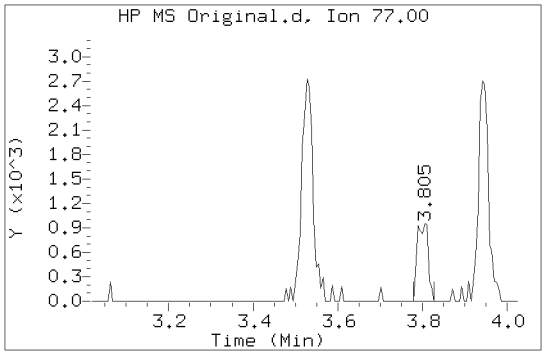

AFTER
MASS
51
AREA
3306
HEIGHT
1726
25-Jun-2024
19:32



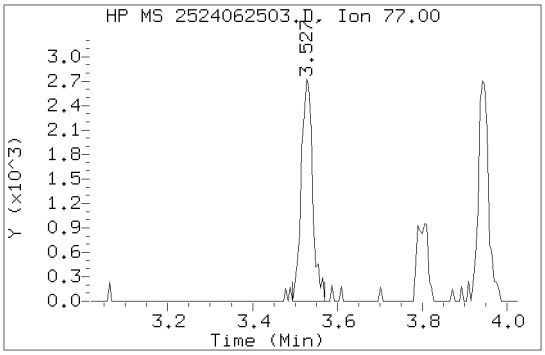

## 2,2-Dichloropropane (594-20-7)

Reason Code: H

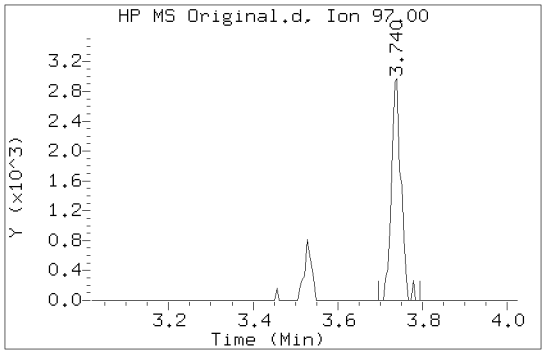
BEFORE
MASS
77
AREA
1736
HEIGHT
956
25-Jun-2024
18:50



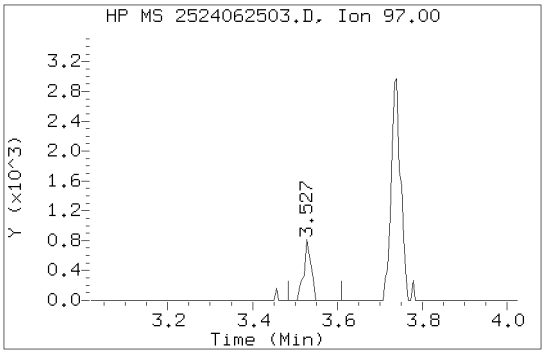

AFTER
MASS
77
AREA
5081
HEIGHT
2728
25-Jun-2024
19:32



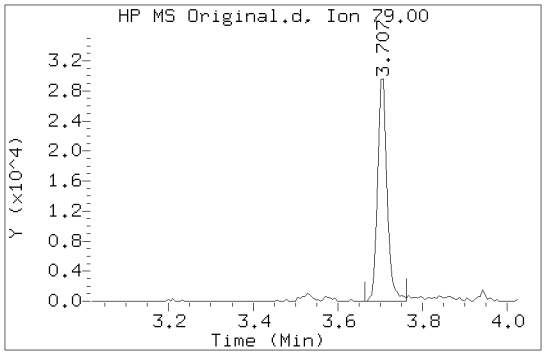

BEFORE
MASS
97
AREA
4715
HEIGHT
2970
25-Jun-2024
18:50



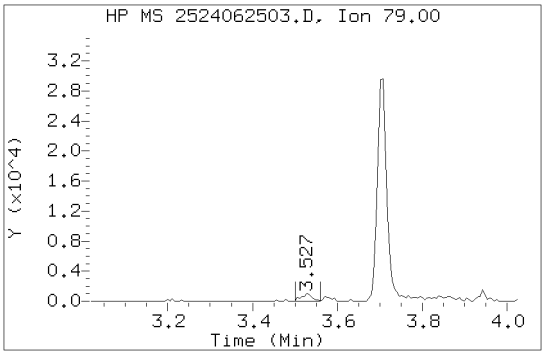

AFTER
MASS
97
AREA
980
HEIGHT
820
25-Jun-2024
19:32




BEFORE
MASS
79
AREA
45962
HEIGHT
29592
25-Jun-2024
18:50




AFTER
MASS
79
AREA
1712
HEIGHT
1011
25-Jun-2024
19:32

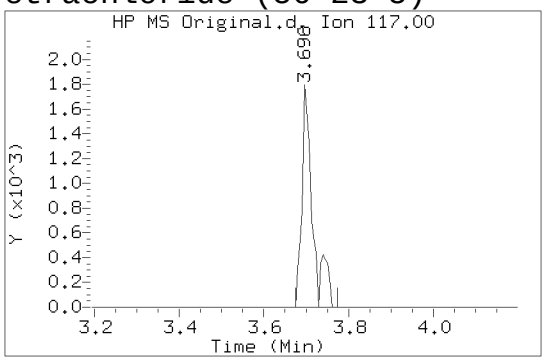


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LabSampID : VSTD00.5

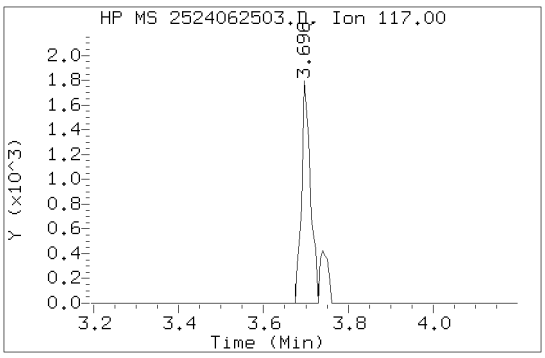
## Carbon Tetrachloride (56-23-5)

Reason Code: MP

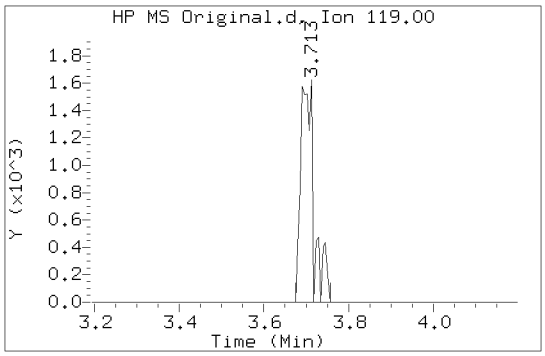
BEFORE
MASS
117
AREA
3171
HEIGHT
1795
25-Jun-2024
18:50



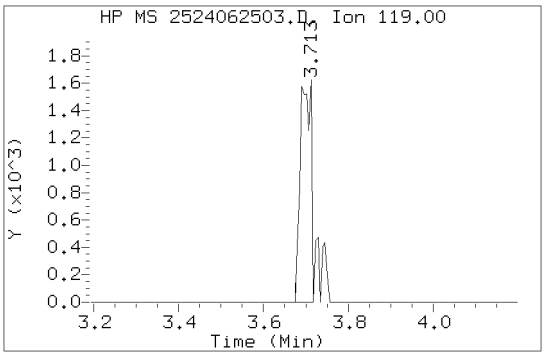

AFTER
MASS
117
AREA
2612
HEIGHT
1795
25-Jun-2024
19:32



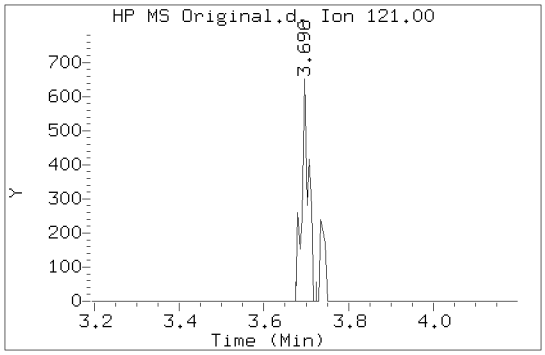

BEFORE
MASS
119
AREA
3504
HEIGHT
1624
25-Jun-2024
18:50



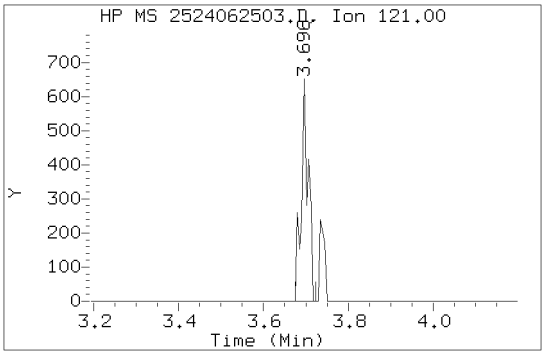

AFTER
MASS
119
AREA
2860
HEIGHT
1624
25-Jun-2024
19:32




BEFORE
MASS
121
AREA
747
HEIGHT
652
25-Jun-2024
18:50



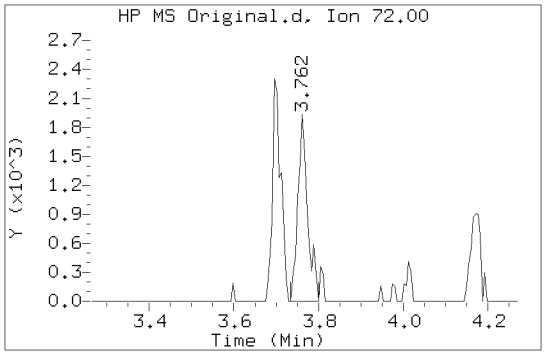

AFTER
MASS
121
AREA
747
HEIGHT
652
25-Jun-2024
19:32



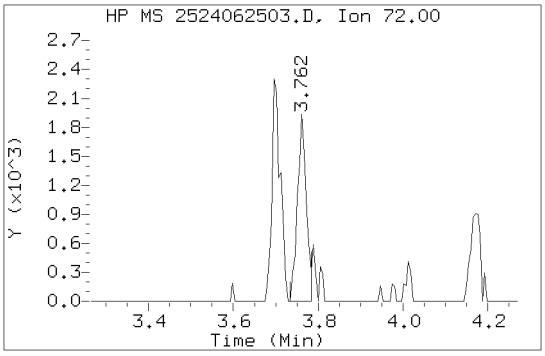

## 2-Butanone (78-93-3)

Reason Code: MP

BEFORE
MASS
72
AREA
3100
HEIGHT
1940
25-Jun-2024
18:50




AFTER
MASS
72
AREA
2817
HEIGHT
1940
25-Jun-2024
19:32

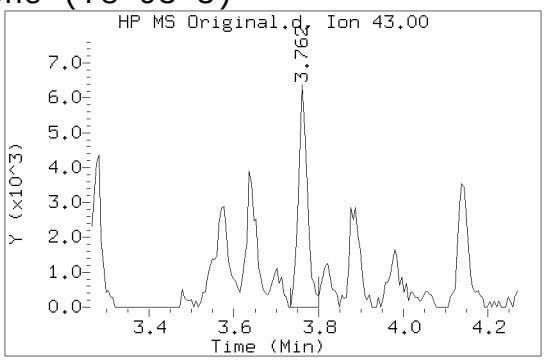


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LabSampID : VSTD00.5

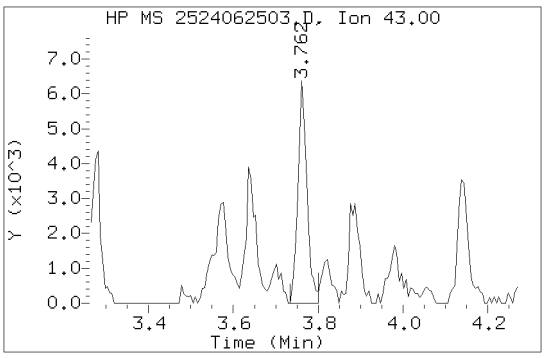
## 2-Butanone (78-93-3)

Reason Code: MP

BEFORE
MASS
43
AREA
9470
HEIGHT
6373
25-Jun-2024
18:50



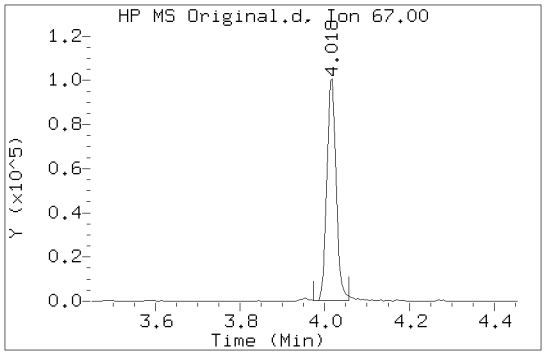

AFTER
MASS
43
AREA
9470
HEIGHT
6373
25-Jun-2024
19:32



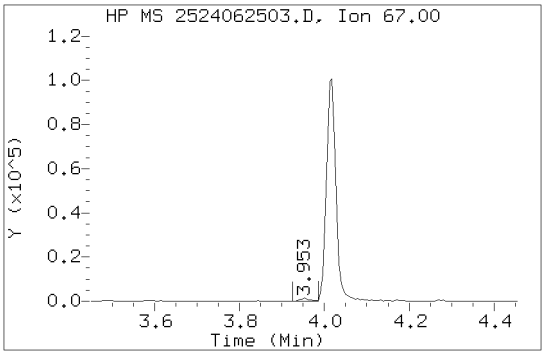

## Methacrylonitrile (126-98-7)

Reason Code: H

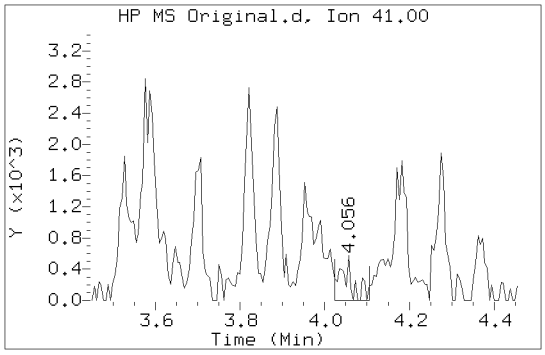
BEFORE
MASS
67
AREA
151134
HEIGHT
100353
25-Jun-2024
18:50



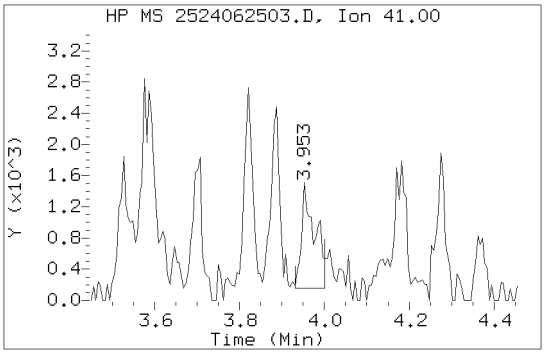

AFTER
MASS
67
AREA
2086
HEIGHT
1381
25-Jun-2024
19:32



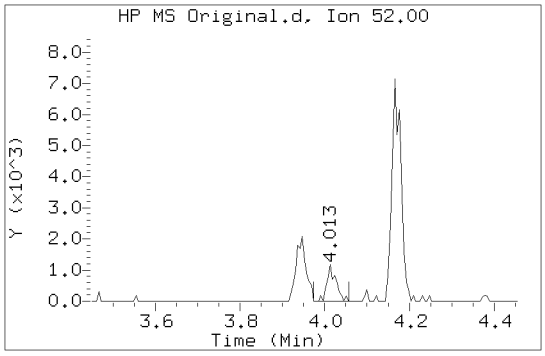

BEFORE
MASS
41
AREA
1170
HEIGHT
573
25-Jun-2024
18:50



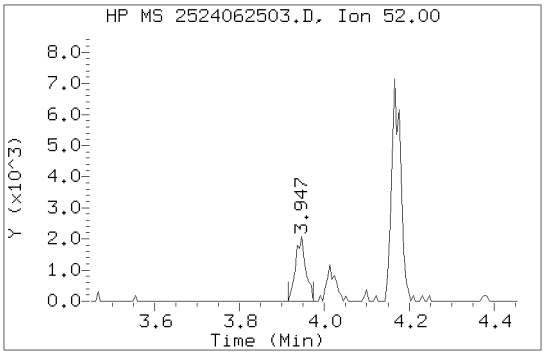

AFTER
MASS
41
AREA
2974
HEIGHT
1355
25-Jun-2024
19:32




BEFORE
MASS
52
AREA
1694
HEIGHT
1178
25-Jun-2024
18:50




AFTER
MASS
52
AREA
3467
HEIGHT
2088
25-Jun-2024
19:32

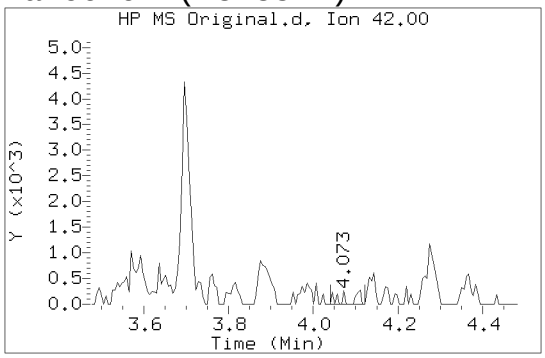


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LabSampID : VSTD00.5

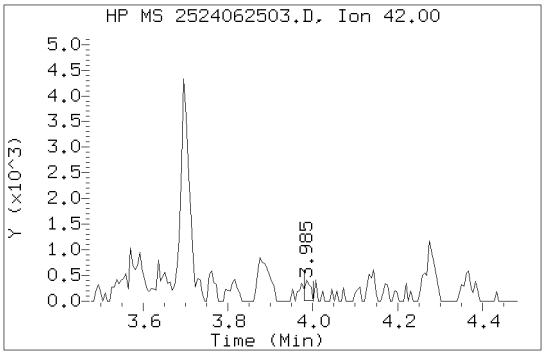
## Isobutyl alcohol (78-83-1)

Reason Code: H

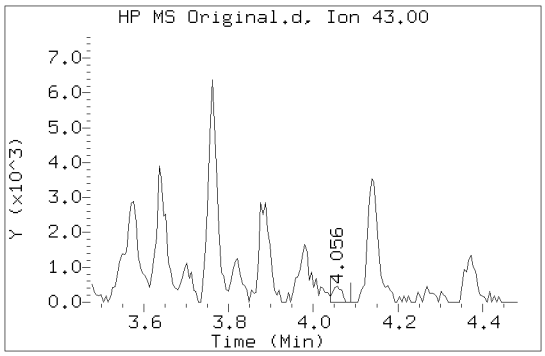
**BEFORE**
MASS
42
AREA
442
HEIGHT
269
25-Jun-2024
18:50



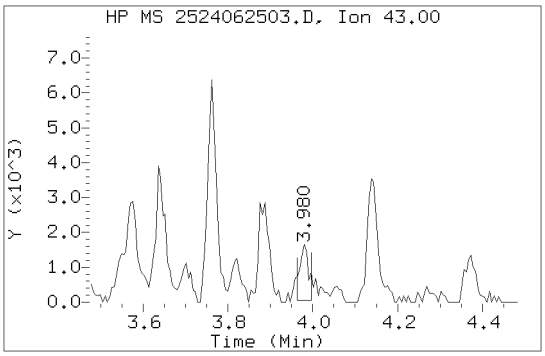

**AFTER**
MASS
42
AREA
394
HEIGHT
411
25-Jun-2024
19:32



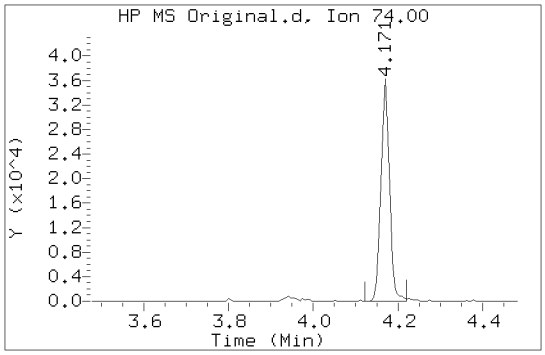

**BEFORE**
MASS
43
AREA
701
HEIGHT
454
25-Jun-2024
18:50



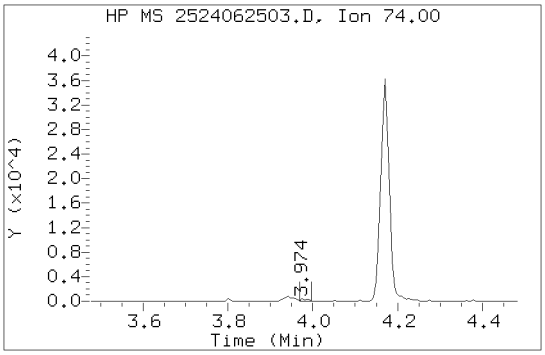

**AFTER**
MASS
43
AREA
2339
HEIGHT
1609
25-Jun-2024
19:32




**BEFORE**
MASS
74
AREA
50301
HEIGHT
36256
25-Jun-2024
18:50



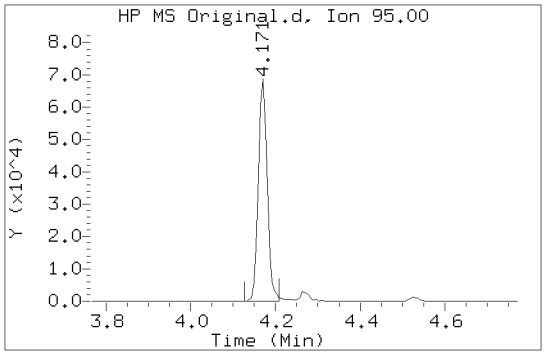

**AFTER**
MASS
74
AREA
400
HEIGHT
443
25-Jun-2024
19:32



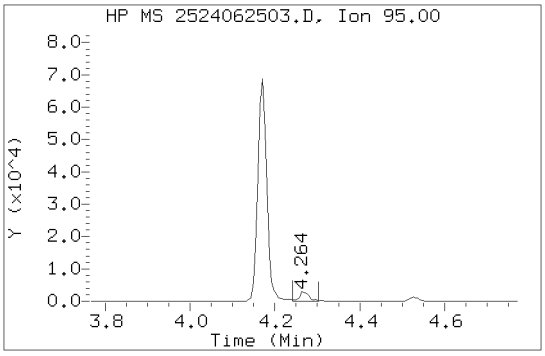

## Trichloroethene (79-01-6)

Reason Code: H

**BEFORE**
MASS
95
AREA
100436
HEIGHT
68728
25-Jun-2024
18:50




**AFTER**
MASS
95
AREA
4490
HEIGHT
3049
25-Jun-2024
19:32

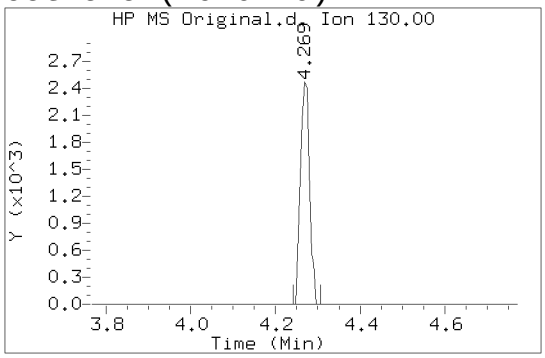


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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

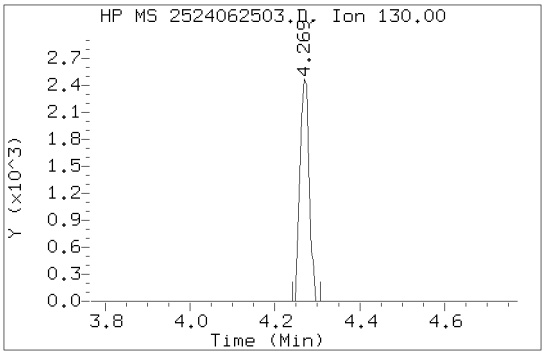
## Trichloroethene (79-01-6)

Reason Code: H

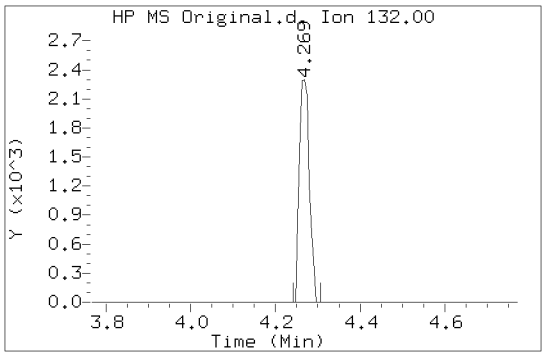
BEFORE
MASS
130
AREA
3727
HEIGHT
2468
25-Jun-2024
18:50



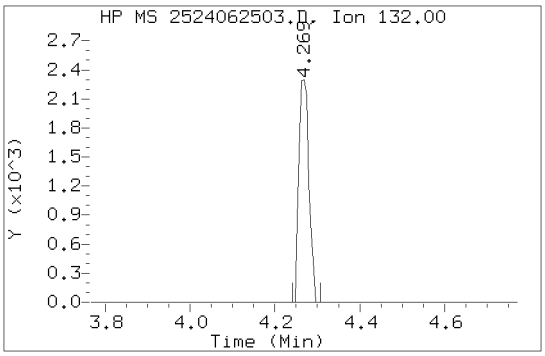

AFTER
MASS
130
AREA
3727
HEIGHT
2468
25-Jun-2024
19:32




BEFORE
MASS
132
AREA
3832
HEIGHT
2296
25-Jun-2024
18:50



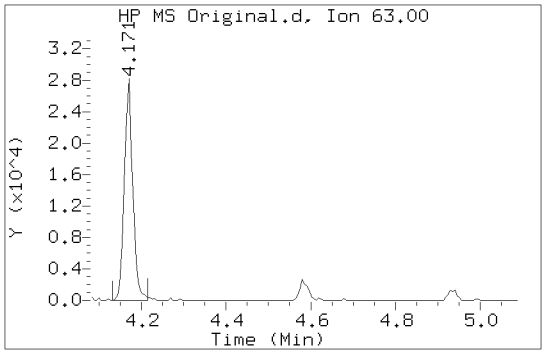

AFTER
MASS
132
AREA
3832
HEIGHT
2296
25-Jun-2024
19:32



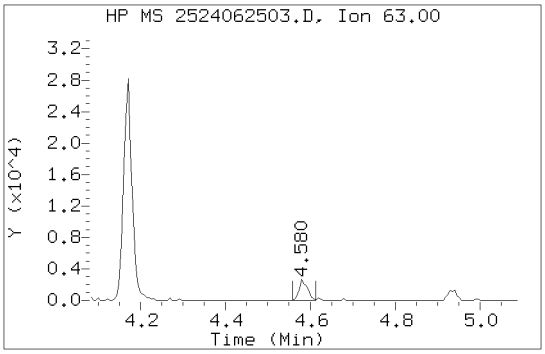

## 1,2-Dichloropropane (78-87-5)

Reason Code: H

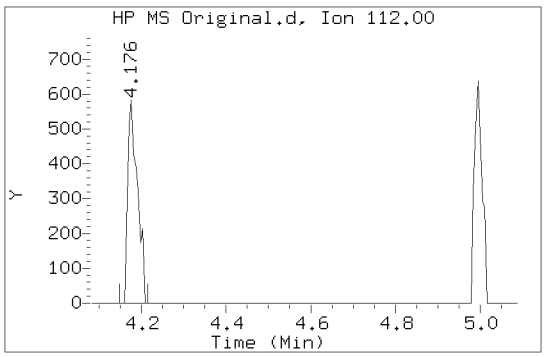
BEFORE
MASS
63
AREA
39289
HEIGHT
28192
25-Jun-2024
18:50



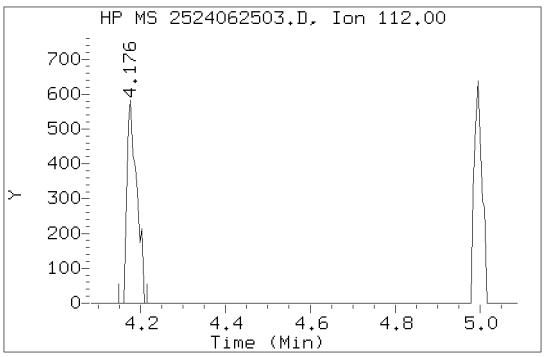

AFTER
MASS
63
AREA
3551
HEIGHT
2696
25-Jun-2024
19:32




BEFORE
MASS
112
AREA
932
HEIGHT
583
25-Jun-2024
18:50




AFTER
MASS
112
AREA
932
HEIGHT
583
25-Jun-2024
19:32

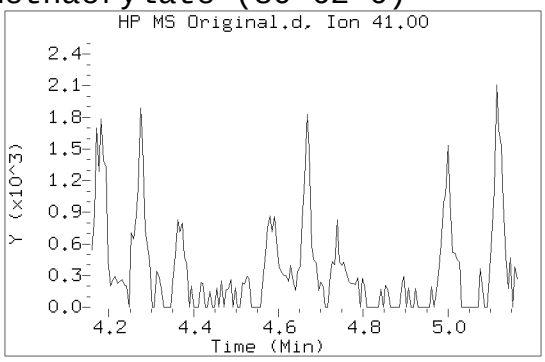


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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

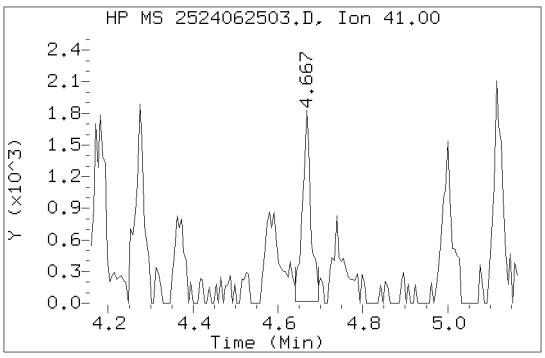
## Methyl methacrylate (80-62-6)

Reason Code: IH

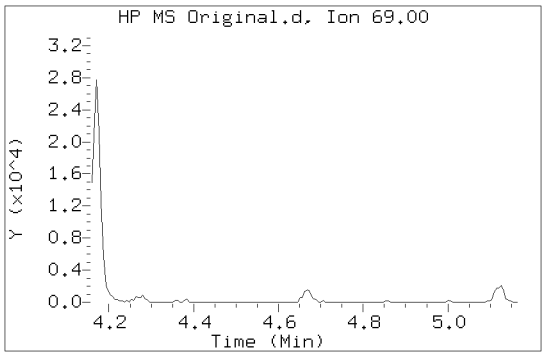
BEFORE
MASS
41
AREA
0
HEIGHT
0
25-Jun-2024
18:50



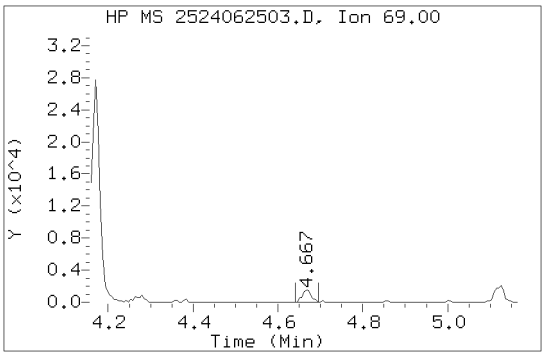

AFTER
MASS
41
AREA
2494
HEIGHT
1807
25-Jun-2024
19:32



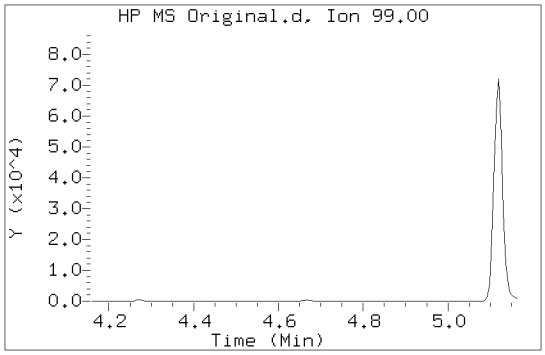

BEFORE
MASS
69
AREA
0
HEIGHT
0
25-Jun-2024
18:50



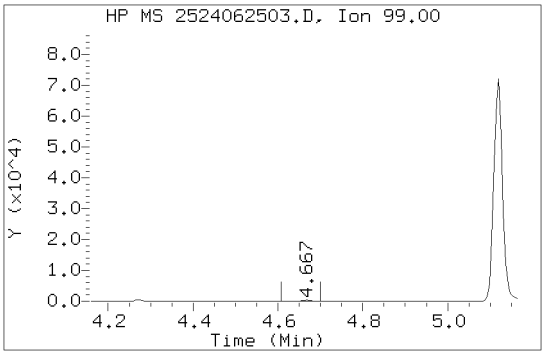

AFTER
MASS
69
AREA
2267
HEIGHT
1535
25-Jun-2024
19:32




BEFORE
MASS
99
AREA
0
HEIGHT
0
25-Jun-2024
18:50



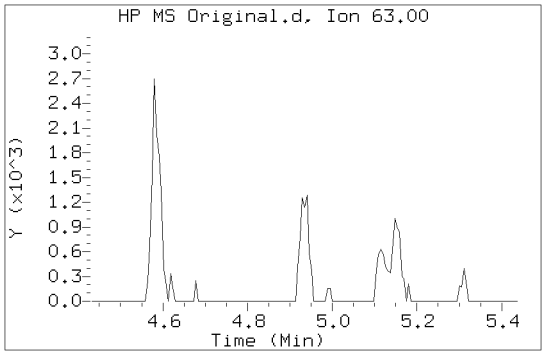

AFTER
MASS
99
AREA
362
HEIGHT
347
25-Jun-2024
19:32



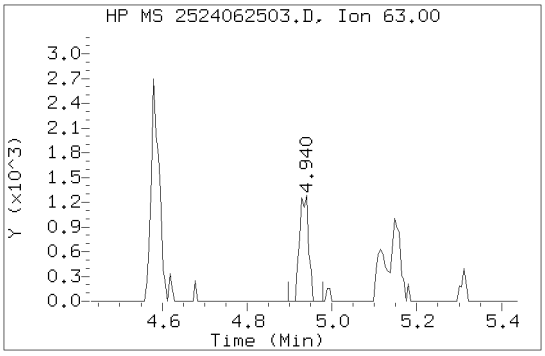

## 2-Chloroethylvinyl ether (110-75-8)

Reason Code: IH

BEFORE
MASS
63
AREA
0
HEIGHT
0
25-Jun-2024
18:50




AFTER
MASS
63
AREA
1903
HEIGHT
1284
25-Jun-2024
19:32

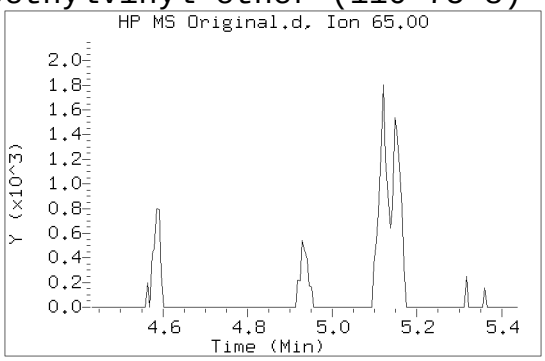


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InstruID : ms25.i
LabSampID : VSTD00.5

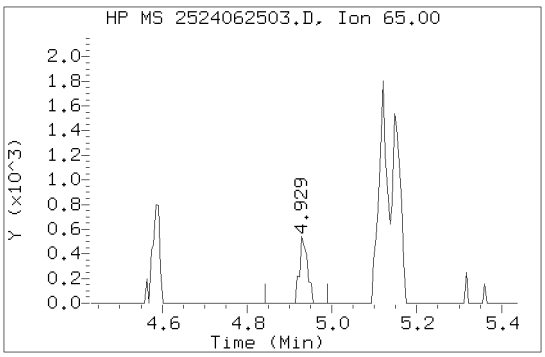
## 2-Chloroethylvinyl ether (110-75-8)

Reason Code: IH

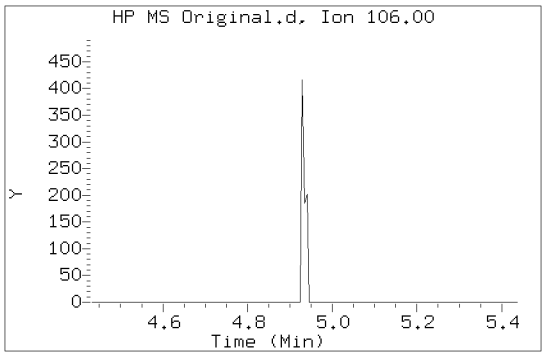
BEFORE
MASS
65
AREA
0
HEIGHT
0
25-Jun-2024
18:50



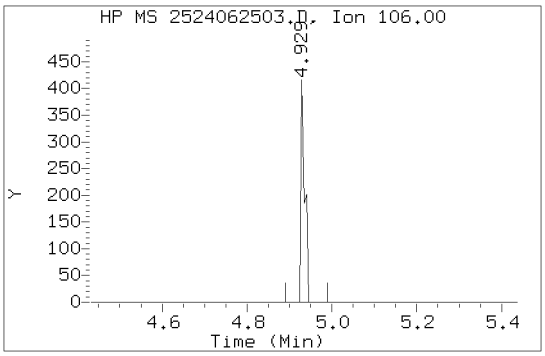

AFTER
MASS
65
AREA
708
HEIGHT
543
25-Jun-2024
19:32




BEFORE
MASS
106
AREA
0
HEIGHT
0
25-Jun-2024
18:50



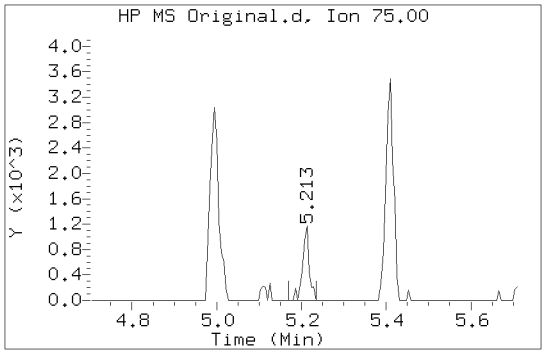

AFTER
MASS
106
AREA
262
HEIGHT
416
25-Jun-2024
19:32



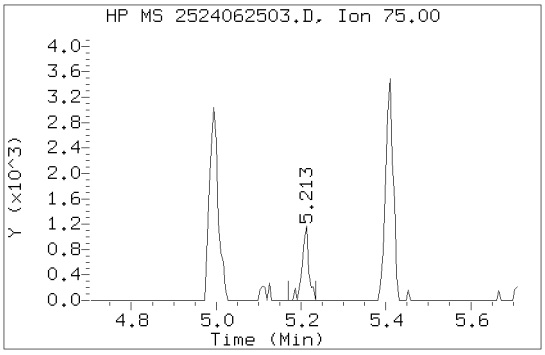

## Chloroacetonitrile (107-14-2)

Reason Code: H

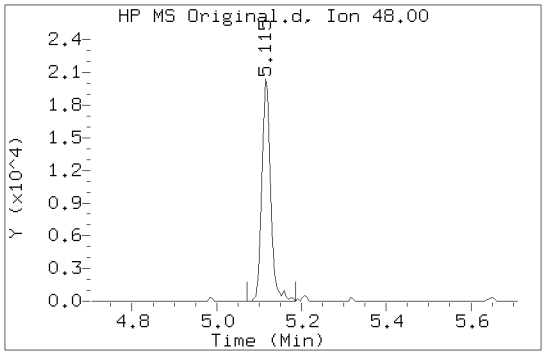
BEFORE
MASS
75
AREA
1271
HEIGHT
1174
25-Jun-2024
18:50



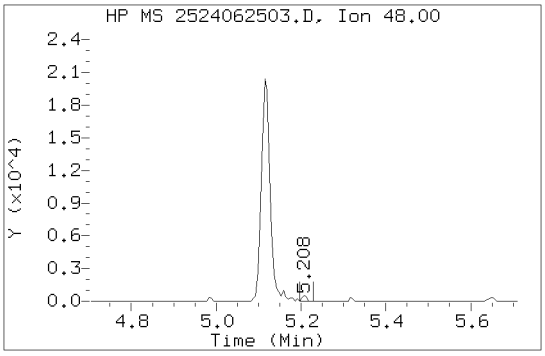

AFTER
MASS
75
AREA
1271
HEIGHT
1174
25-Jun-2024
19:32




BEFORE
MASS
48
AREA
29612
HEIGHT
20416
25-Jun-2024
18:50




AFTER
MASS
48
AREA
388
HEIGHT
520
25-Jun-2024
19:32

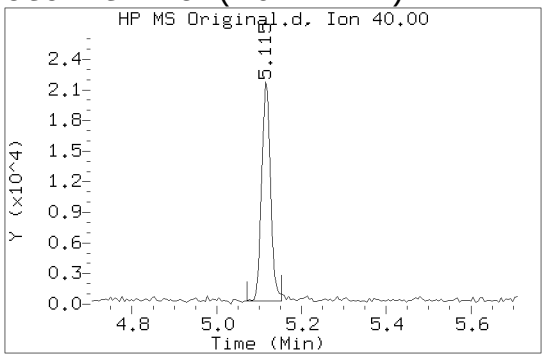


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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

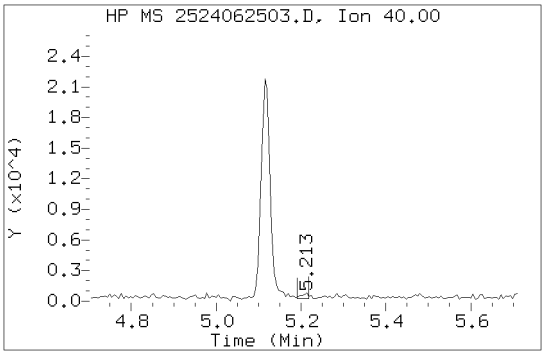
## Chloroacetonitrile (107-14-2)

Reason Code: H

BEFORE
MASS
40
AREA
31606
HEIGHT
21477
25-Jun-2024
18:50



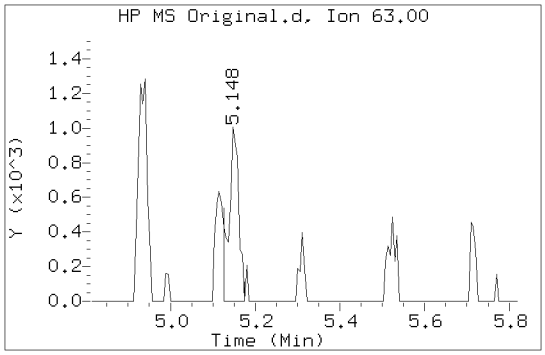

AFTER
MASS
40
AREA
602
HEIGHT
530
25-Jun-2024
19:32



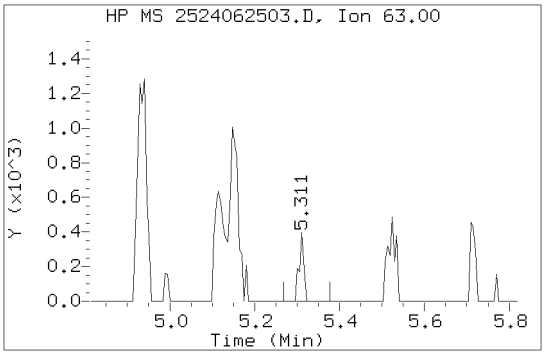

## 1,1-Dichloro-2-Propanone (513-88-2)

Reason Code: H

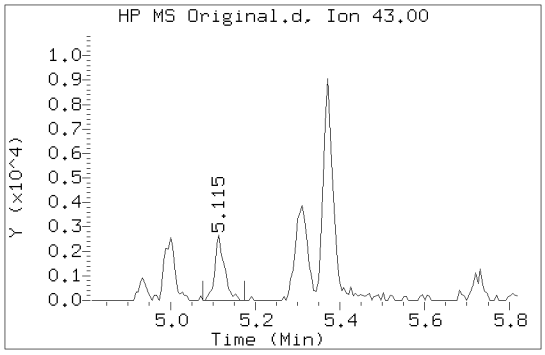
BEFORE
MASS
63
AREA
1657
HEIGHT
1005
25-Jun-2024
18:50



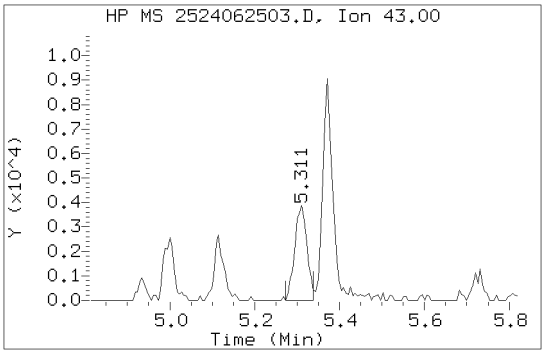

AFTER
MASS
63
AREA
307
HEIGHT
397
25-Jun-2024
19:32



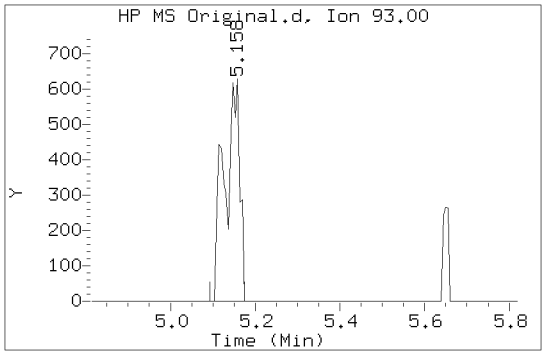

BEFORE
MASS
43
AREA
4212
HEIGHT
2670
25-Jun-2024
18:50



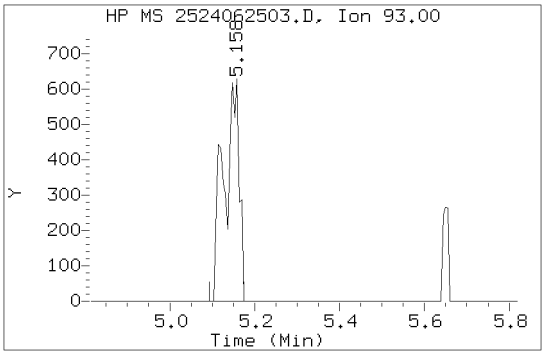

AFTER
MASS
43
AREA
7826
HEIGHT
3868
25-Jun-2024
19:32




BEFORE
MASS
93
AREA
1570
HEIGHT
629
25-Jun-2024
18:50




AFTER
MASS
93
AREA
1570
HEIGHT
629
25-Jun-2024
19:32

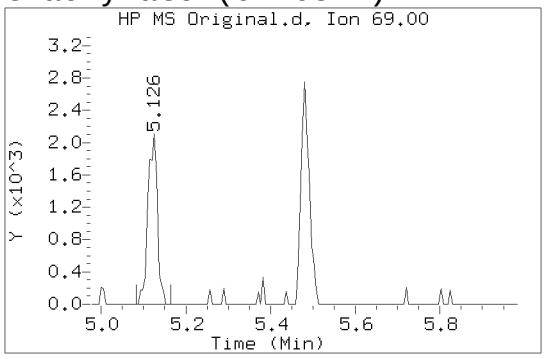


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LabSampID : VSTD00.5

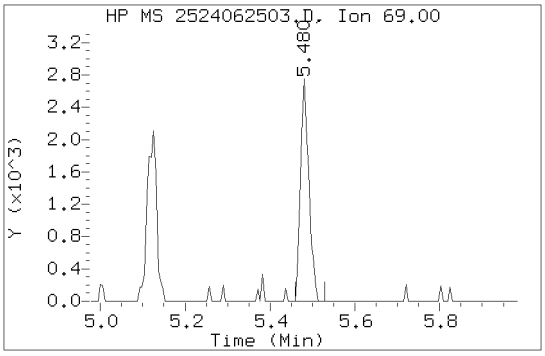
## Ethyl Methacrylate (97-63-2)

Reason Code: H

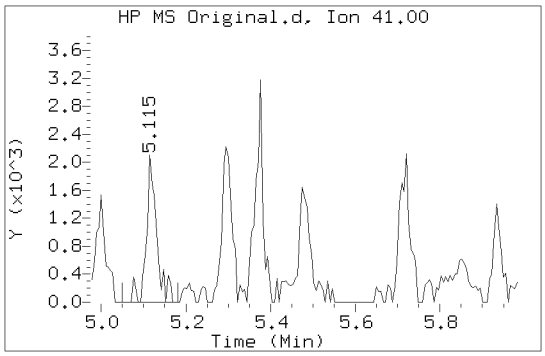
BEFORE
MASS
69
AREA
3279
HEIGHT
2105
25-Jun-2024
18:50



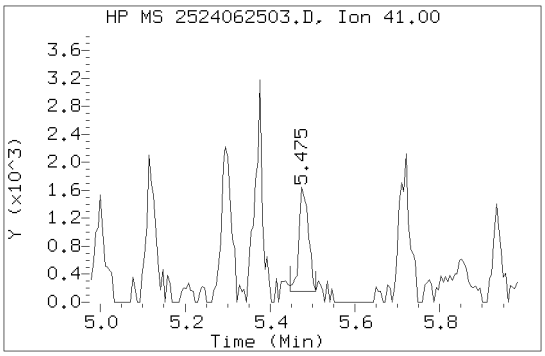

AFTER
MASS
69
AREA
3766
HEIGHT
2751
25-Jun-2024
19:32



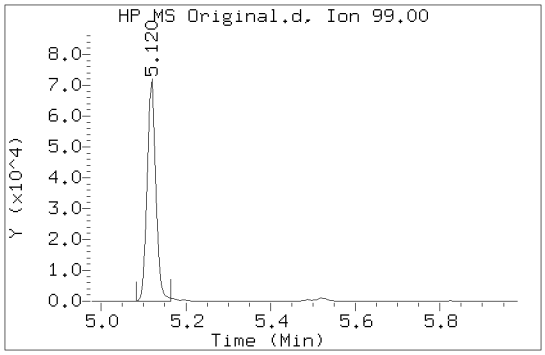

BEFORE
MASS
41
AREA
3522
HEIGHT
2108
25-Jun-2024
18:50



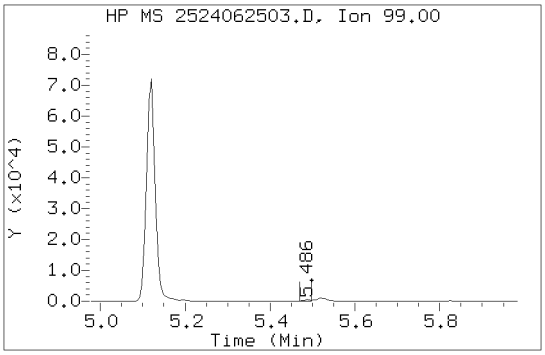

AFTER
MASS
41
AREA
2315
HEIGHT
1491
25-Jun-2024
19:32




BEFORE
MASS
99
AREA
103308
HEIGHT
72032
25-Jun-2024
18:50



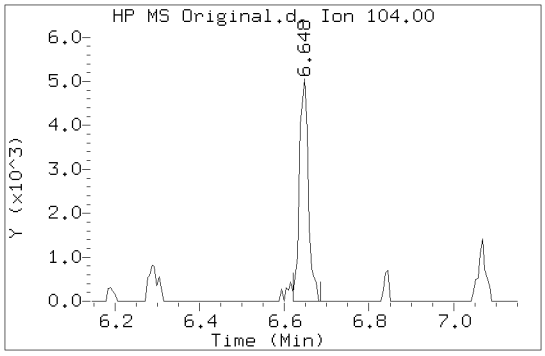

AFTER
MASS
99
AREA
564
HEIGHT
580
25-Jun-2024
19:32



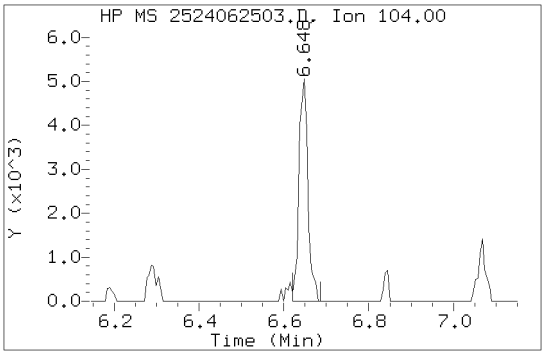

## Styrene (100-42-5)

Reason Code: MP

BEFORE
MASS
104
AREA
7432
HEIGHT
5057
25-Jun-2024
18:50




AFTER
MASS
104
AREA
7432
HEIGHT
5057
25-Jun-2024
19:32

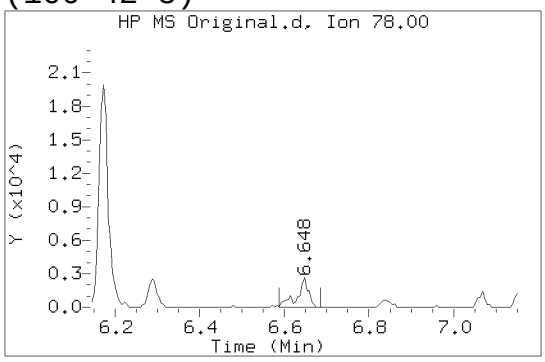


Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062503.D
Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

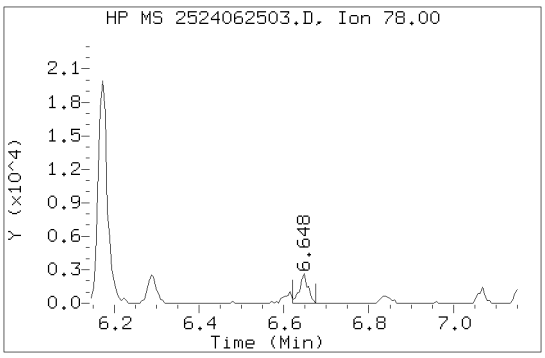
## Styrene (100-42-5)

Reason Code: MP

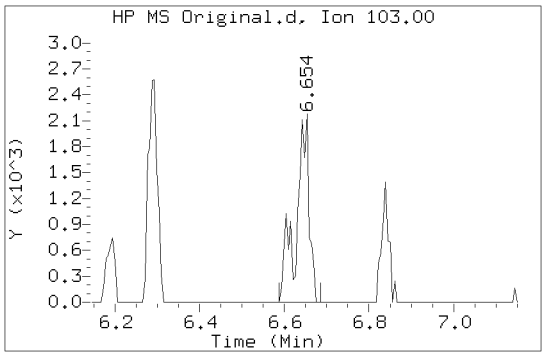
BEFORE
MASS
78
AREA
4781
HEIGHT
2634
25-Jun-2024
18:50



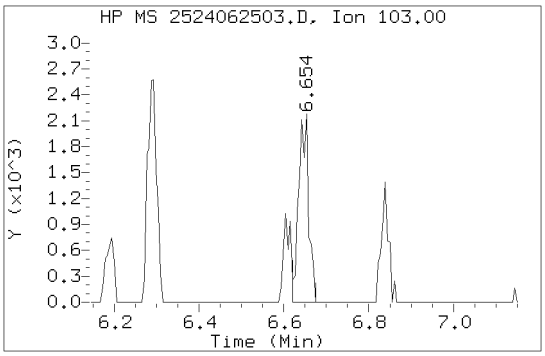

AFTER
MASS
78
AREA
3660
HEIGHT
2633
25-Jun-2024
19:32




BEFORE
MASS
103
AREA
4697
HEIGHT
2183
25-Jun-2024
18:50



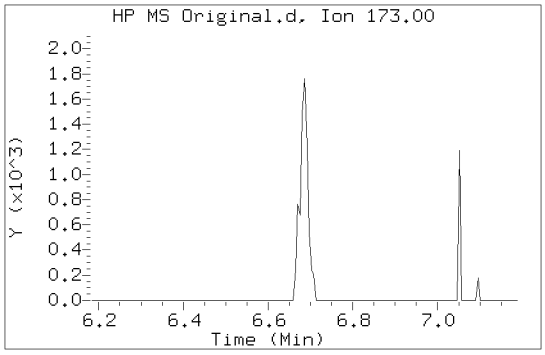

AFTER
MASS
103
AREA
3568
HEIGHT
2181
25-Jun-2024
19:32



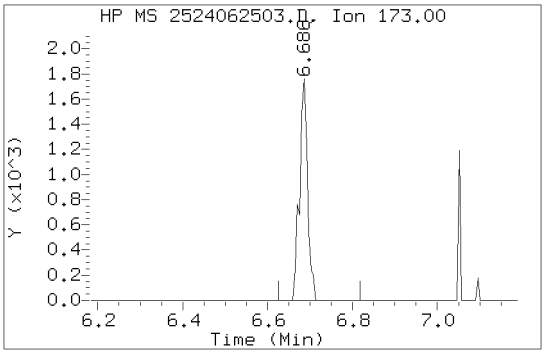

## Bromoform (75-25-2)

Reason Code: IH

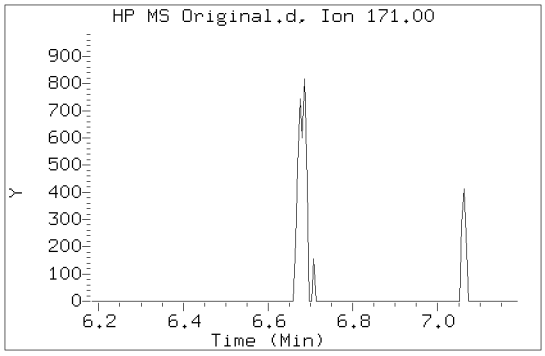
BEFORE
MASS
173
AREA
0
HEIGHT
0
25-Jun-2024
18:50



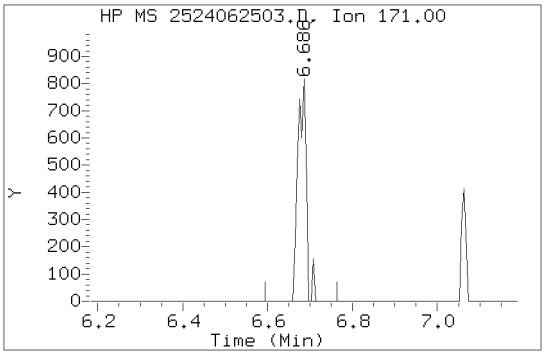

AFTER
MASS
173
AREA
2337
HEIGHT
1762
25-Jun-2024
19:32




BEFORE
MASS
171
AREA
0
HEIGHT
0
25-Jun-2024
18:50




AFTER
MASS
171
AREA
1136
HEIGHT
817
25-Jun-2024
19:32

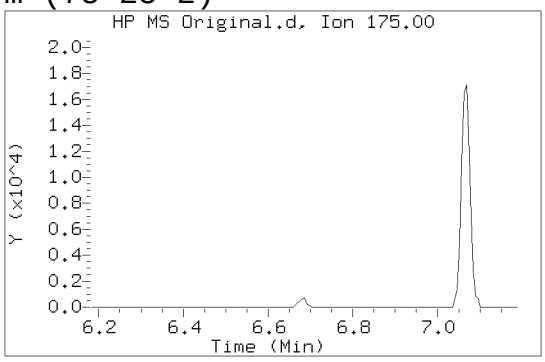


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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

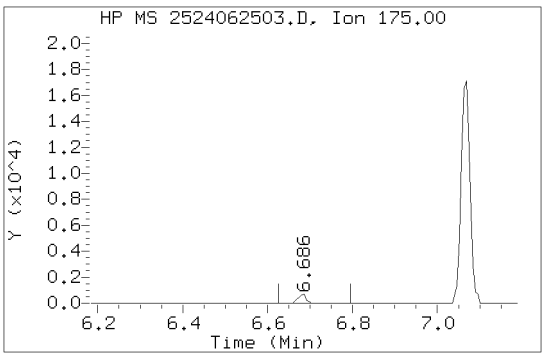
## Bromoform (75-25-2)

Reason Code: IH

BEFORE
MASS
175
AREA
0
HEIGHT
0
25-Jun-2024
18:50



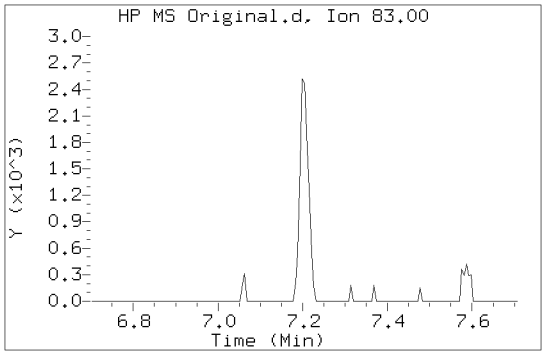

AFTER
MASS
175
AREA
874
HEIGHT
676
25-Jun-2024
19:32



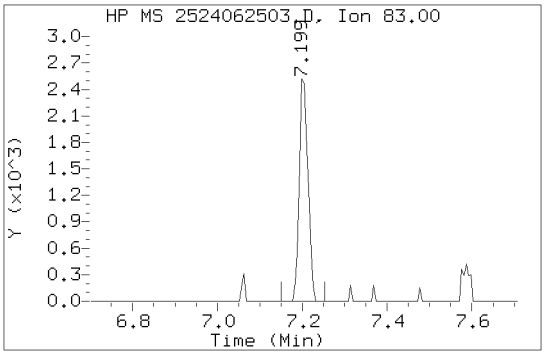

## 1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code: IH

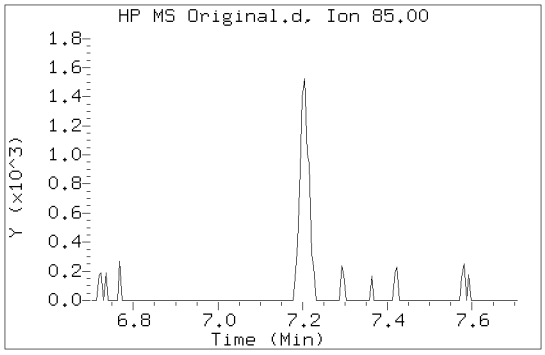
BEFORE
MASS
83
AREA
0
HEIGHT
0
25-Jun-2024
18:50



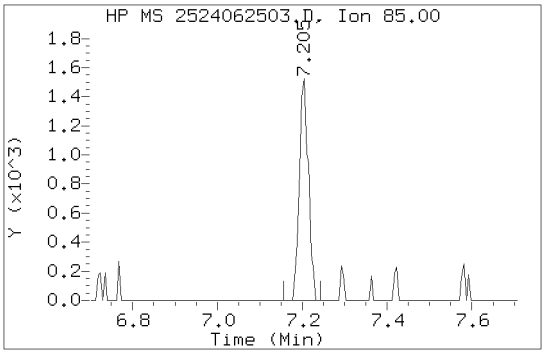

AFTER
MASS
83
AREA
3602
HEIGHT
2520
25-Jun-2024
19:32



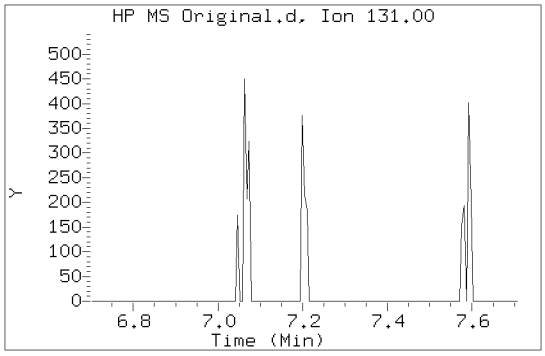

BEFORE
MASS
85
AREA
0
HEIGHT
0
25-Jun-2024
18:50



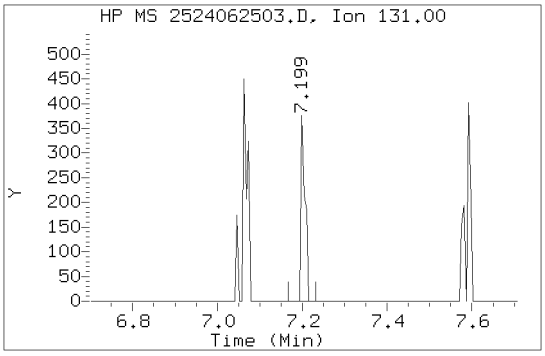

AFTER
MASS
85
AREA
2263
HEIGHT
1524
25-Jun-2024
19:32




BEFORE
MASS
131
AREA
0
HEIGHT
0
25-Jun-2024
18:50




AFTER
MASS
131
AREA
253
HEIGHT
376
25-Jun-2024
19:32

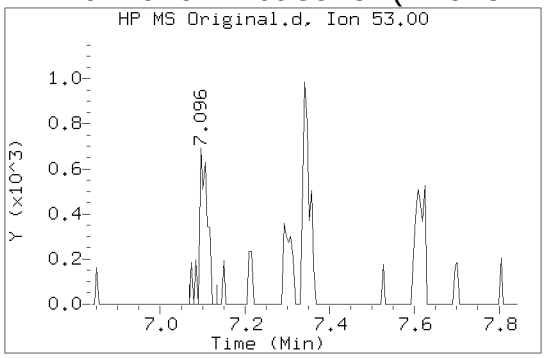


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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

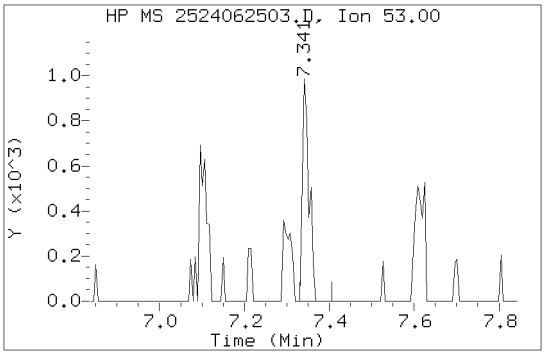
## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: H

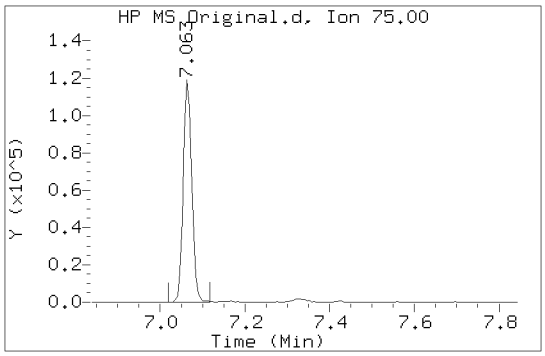
BEFORE
MASS
53
AREA
949
HEIGHT
694
25-Jun-2024
18:50



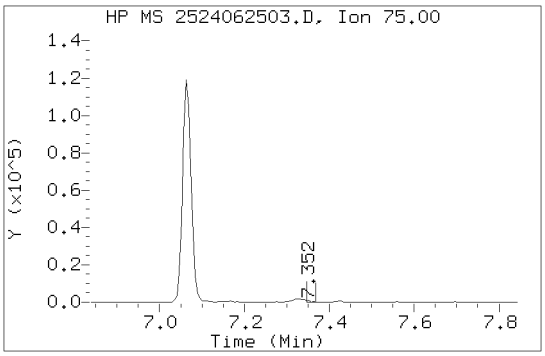

AFTER
MASS
53
AREA
1054
HEIGHT
986
25-Jun-2024
19:32



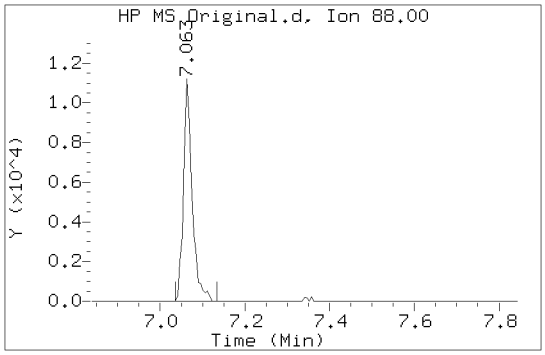

BEFORE
MASS
75
AREA
166839
HEIGHT
119104
25-Jun-2024
18:50



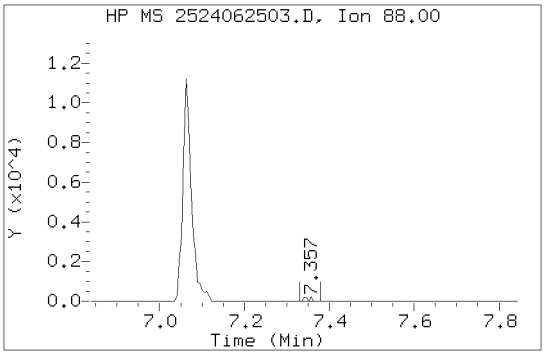

AFTER
MASS
75
AREA
731
HEIGHT
1082
25-Jun-2024
19:32




BEFORE
MASS
88
AREA
15893
HEIGHT
11208
25-Jun-2024
18:50



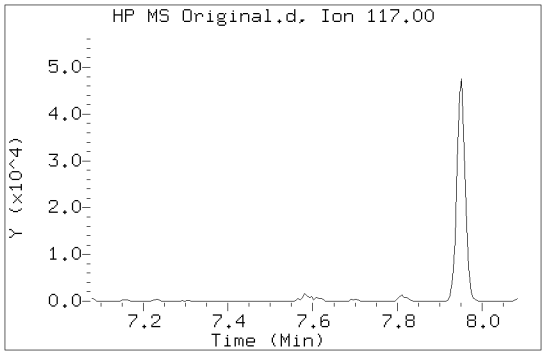

AFTER
MASS
88
AREA
202
HEIGHT
235
25-Jun-2024
19:32



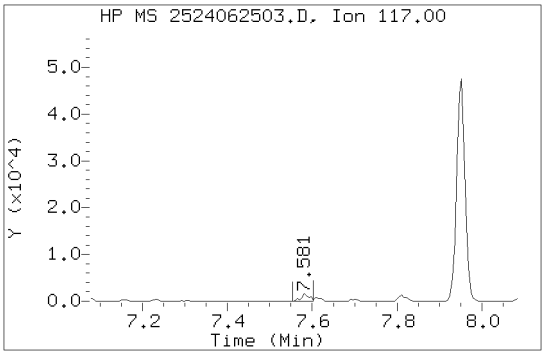

## Pentachloroethane (76-01-7)

Reason Code: H

BEFORE
MASS
117
AREA
0
HEIGHT
0
25-Jun-2024
18:50




AFTER
MASS
117
AREA
2125
HEIGHT
1588
25-Jun-2024
19:32

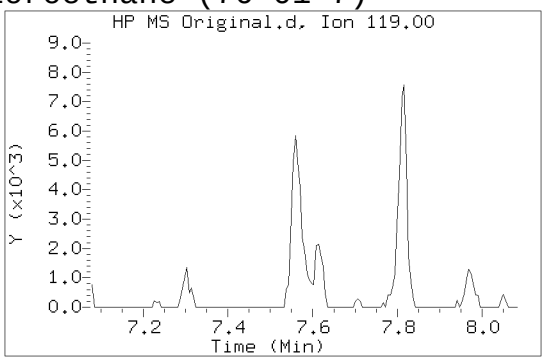


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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

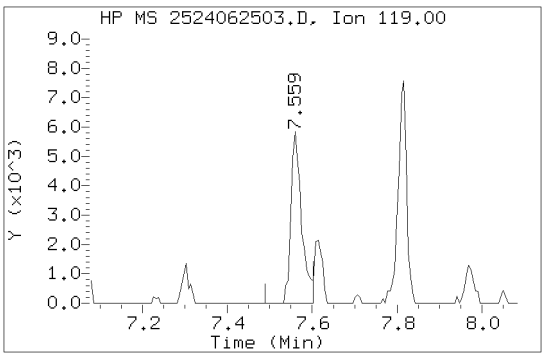
## Pentachloroethane (76-01-7)

Reason Code: H

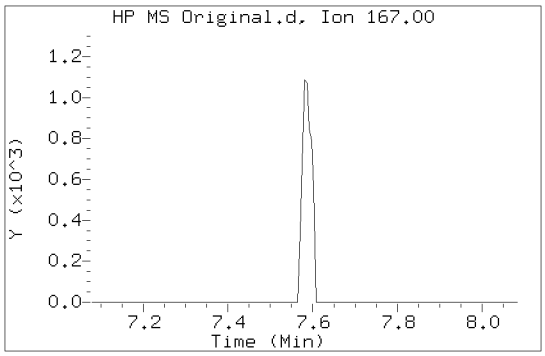
BEFORE
MASS
119
AREA
0
HEIGHT
0
25-Jun-2024
18:50



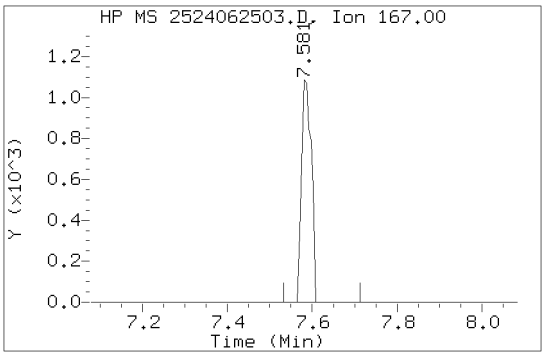

AFTER
MASS
119
AREA
10337
HEIGHT
5835
25-Jun-2024
19:32




BEFORE
MASS
167
AREA
0
HEIGHT
0
25-Jun-2024
18:50



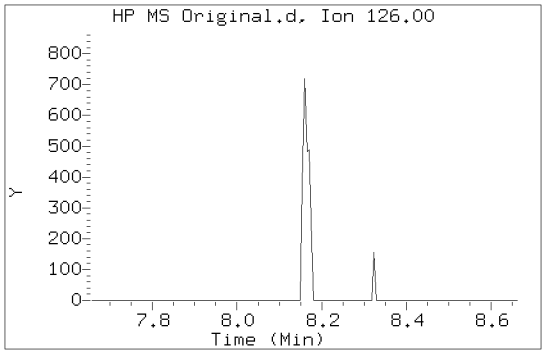

AFTER
MASS
167
AREA
1755
HEIGHT
1086
25-Jun-2024
19:32



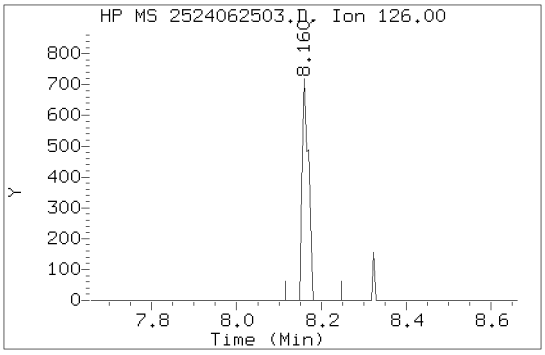

## Benzyl Chloride (100-44-7)

Reason Code: IH

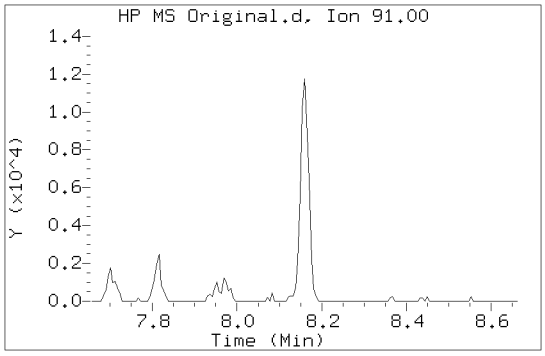
BEFORE
MASS
126
AREA
0
HEIGHT
0
25-Jun-2024
18:50



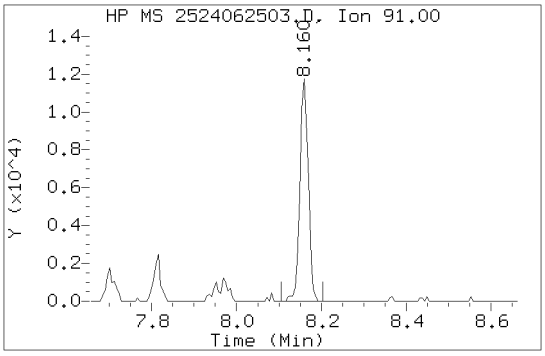

AFTER
MASS
126
AREA
736
HEIGHT
719
25-Jun-2024
19:32




BEFORE
MASS
91
AREA
0
HEIGHT
0
25-Jun-2024
18:50




AFTER
MASS
91
AREA
16144
HEIGHT
11748
25-Jun-2024
19:32

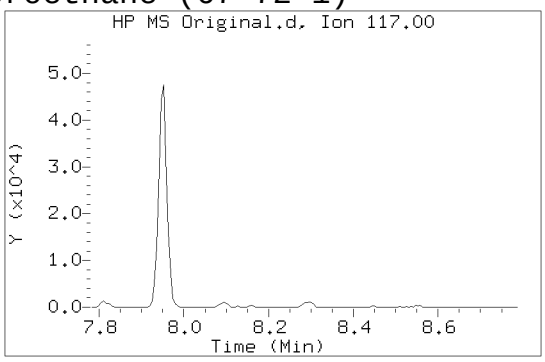


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InstruID : ms25.i
LabSampID : VSTD00.5

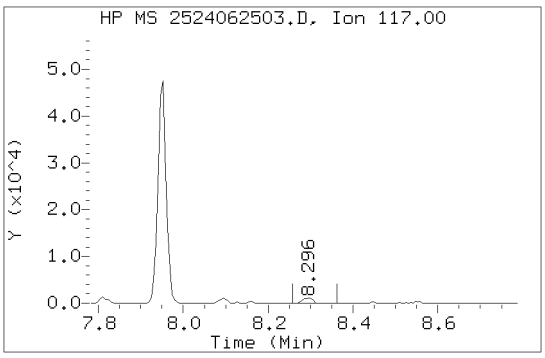
## Hexachloroethane (67-72-1)

Reason Code: IH

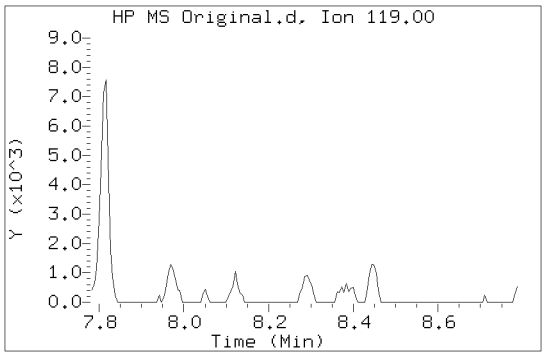
BEFORE
MASS
117
AREA
0
HEIGHT
0
25-Jun-2024
18:50



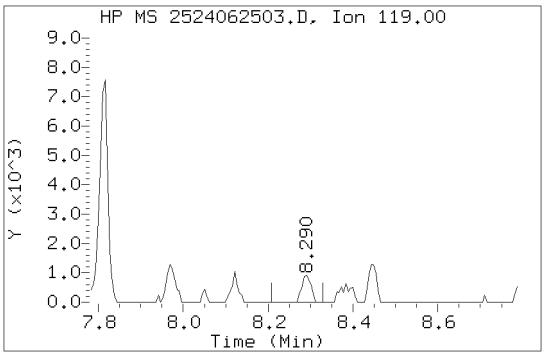

AFTER
MASS
117
AREA
1752
HEIGHT
1065
25-Jun-2024
19:32



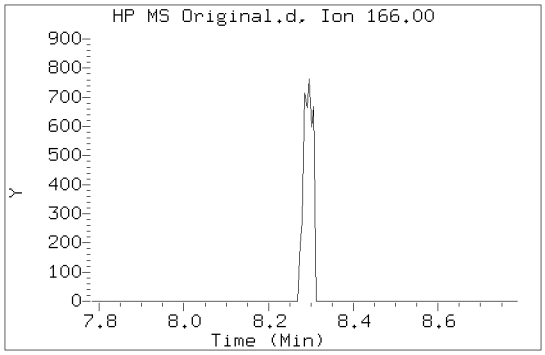

BEFORE
MASS
119
AREA
0
HEIGHT
0
25-Jun-2024
18:50



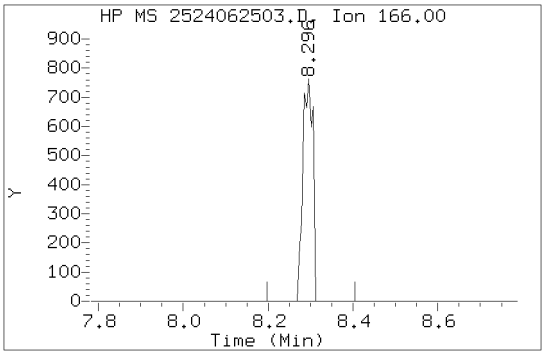

AFTER
MASS
119
AREA
1391
HEIGHT
916
25-Jun-2024
19:32




BEFORE
MASS
166
AREA
0
HEIGHT
0
25-Jun-2024
18:50



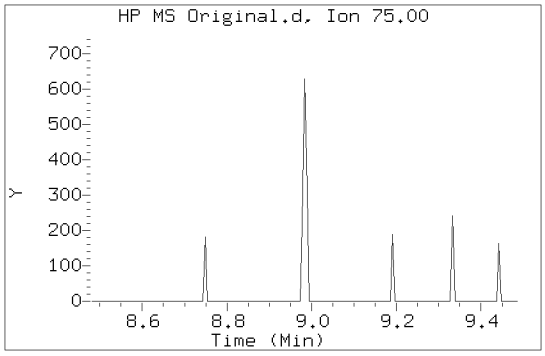

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AREA
1267
HEIGHT
763
25-Jun-2024
19:32



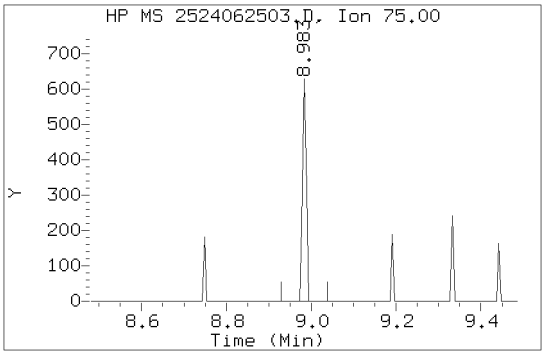

## 1,2-Dibromo-3-chloropropane (96-12-8)

Reason Code: IH

BEFORE
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AREA
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HEIGHT
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25-Jun-2024
18:50




AFTER
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75
AREA
380
HEIGHT
629
25-Jun-2024
19:32

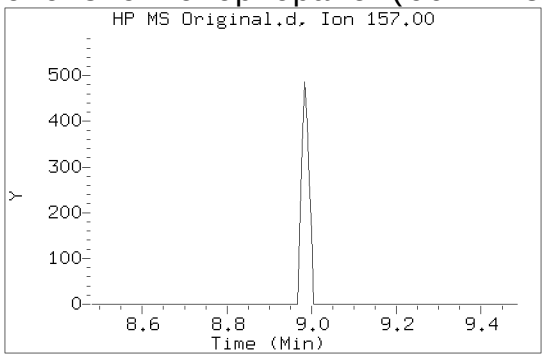


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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

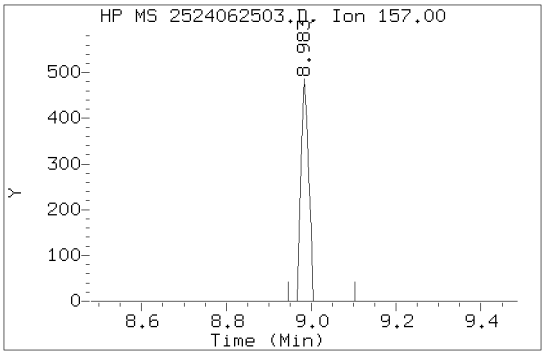
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Reason Code: IH

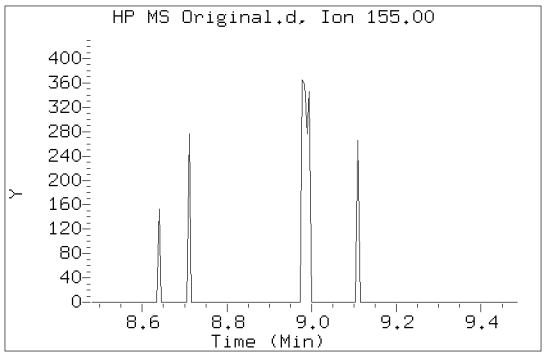
BEFORE
MASS
157
AREA
0
HEIGHT
0
25-Jun-2024
18:50



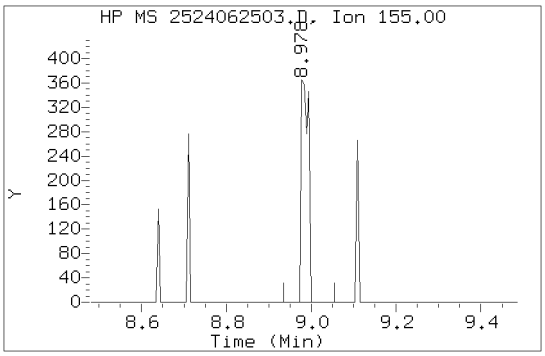

AFTER
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157
AREA
607
HEIGHT
486
25-Jun-2024
19:32




BEFORE
MASS
155
AREA
0
HEIGHT
0
25-Jun-2024
18:50



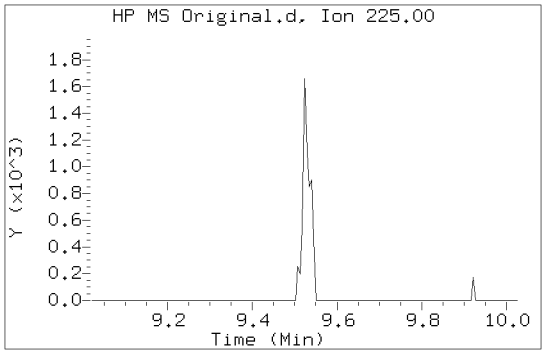

AFTER
MASS
155
AREA
440
HEIGHT
365
25-Jun-2024
19:32



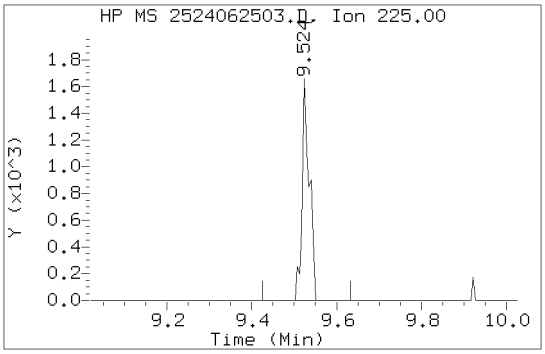

## Hexachlorobutadiene (87-68-3)

Reason Code: IH

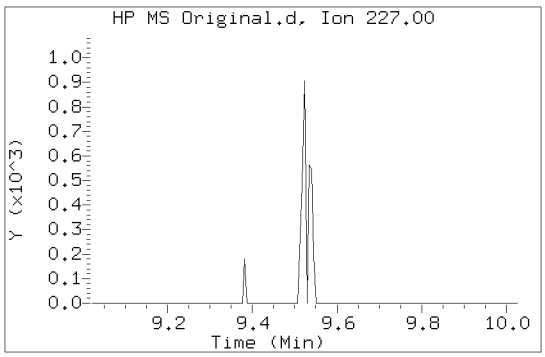
BEFORE
MASS
225
AREA
0
HEIGHT
0
25-Jun-2024
18:50



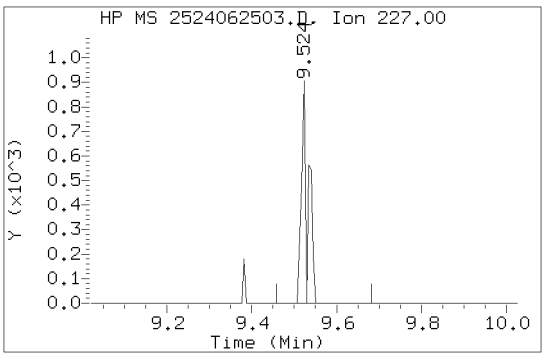

AFTER
MASS
225
AREA
1952
HEIGHT
1658
25-Jun-2024
19:32




BEFORE
MASS
227
AREA
0
HEIGHT
0
25-Jun-2024
18:50




AFTER
MASS
227
AREA
972
HEIGHT
906
25-Jun-2024
19:32



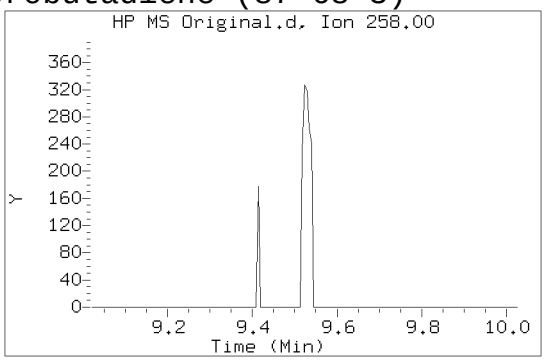
Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062503.D
Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

## Hexachlorobutadiene (87-68-3)

Reason Code: IH

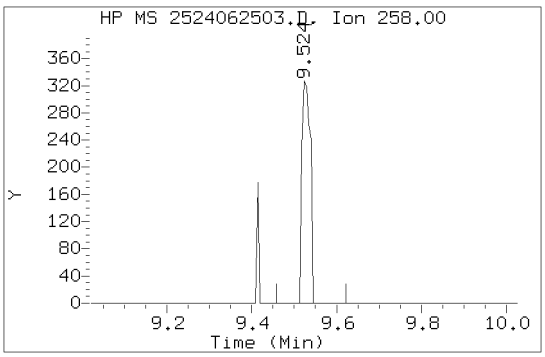
BEFORE

MASS
258
AREA
0
HEIGHT
0
25-Jun-2024
18:50




AFTER

MASS
258
AREA
450
HEIGHT
327
25-Jun-2024
19:32



# UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406250
Inj Date: 25-JUN-2024 11:03
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062504.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062504.D
Lab Smp Id: 1234
Inj Date : 25-JUN-2024 11:23
Operator : ILY Inst ID: ms25.i
Smp Info : 1234;;1;1;1;;;
Misc Info :
Comment :
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Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.497 | 1.497 | (0.359) | 9759 | 1.00000 | 0.798759(a) | |
| 2 Chloromethane | 50 | 1.644 | 1.645 | (0.394) | 10647 | 1.00000 | 0.883614(a) | |
| 3 Vinyl Chloride | 62 | 1.704 | 1.705 | (0.409) | 11765 | 1.00000 | 0.851811(a) | |
| 4 Bromomethane | 94 | 1.922 | 1.923 | (0.461) | 8135 | 1.00000 | 0.801577(a) | |
| 5 Chloroethane | 64 | 2.004 | 2.005 | (0.481) | 12457 | 1.00000 | 1.03559 | |
| 6 Pentane | 41 | 2.092 | 2.092 | (0.502) | 17356 | 1.00000 | 1.00059 | |
| 7 Trichlorofluoromethane | 101 | 2.103 | 2.103 | (0.504) | 16496 | 1.00000 | 0.871950(a) | |
| 8 Dichlorofluoromethane | 67 | 2.124 | 2.125 | (0.509) | 14889 | 1.00000 | 0.850548(a) | |
| 9 Ethyl Ether | 74 | 2.277 | 2.278 | (0.546) | 4502 | 1.00000 | 0.845727(a) | |
| 10 1,1-Dichloroethene | 61 | 2.408 | 2.409 | (0.577) | 9580 | 1.00000 | 0.901873(a) | |
| 11 Freon 113 | 101 | 2.424 | 2.425 | (0.581) | 6683 | 1.00000 | 0.894489(a) | |
| 12 Carbon Disulfide | 76 | 2.446 | 2.447 | (0.587) | 19710 | 1.00000 | 0.860158(a) | |
| 13 Iodomethane | 127 | 2.506 | 2.507 | (0.601) | 2132 | 1.00000 | 1.02386(Q) | |
| 14 Acrolein | 56 | 2.599 | 2.600 | (0.623) | 7284 | 5.00000 | 4.25125(Q) | |
| 15 Isopropyl Alcohol | 45 | 2.654 | 2.654 | (0.636) | 4784 | 5.00000 | 5.47317 | |
| 16 3-Chloro-1-propene | 41 | 2.675 | 2.676 | (0.642) | 7346 | 1.00000 | 0.965171(a) | |
| 17 Methylene Chloride | 84 | 2.741 | 2.741 | (0.657) | 8206 | 1.00000 | 0.945742(a) | |
| 18 Acetone | 58 | 2.752 | 2.752 | (0.660) | 5095 | 5.00000 | 5.29999 | |
| 19 Methyl acetate | 74 | 2.812 | 2.812 | (0.674) | 2657 | 1.00000 | 0.934498(a) | |
| 20 trans-1,2-Dichloroethene | 61 | 2.828 | 2.829 | (0.678) | 9408 | 1.00000 | 0.904277(a) | |
| 21 Hexane | 57 | 2.866 | 2.867 | (0.687) | 20884 | 1.00000 | 0.920374(a) | |

Data File: 2524062504.D
Report Date: 25-Jun-2024 19:32



| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | 2.872 | 2.872 | (0.689) | 19555 | 1.00000 | 0.960311(aQ) | |
| | 23 tert.- Butyl Alcohol | 59 | 2.888 | 2.889 | (0.693) | 4416 | 5.00000 | 4.60155 | |
| | 24 Acetonitrile | 41 | 3.019 | 3.020 | (0.724) | 4555 | 5.00000 | 4.23730(Q) | |
| | 25 Diisopropyl ether | 45 | 3.063 | 3.063 | (0.734) | 20480 | 1.00000 | 0.886965(a) | |
| | 26 Chloroprene | 53 | 3.156 | 3.156 | (0.757) | 9725 | 1.00000 | 0.830748(a) | |
| | 27 1,1-Dichloroethane | 63 | 3.167 | 3.167 | (0.759) | 12220 | 1.00000 | 0.862135(a) | |
| | 28 Acrylonitrile | 53 | 3.194 | 3.194 | (0.766) | 15210 | 5.00000 | 4.12033(M) | MP |
| | 29 Ethyl tert-butyl ether | 59 | 3.265 | 3.265 | (0.783) | 20293 | 1.00000 | 0.827489(a) | |
| | 30 n-Propanol | 41 | 3.259 | 3.260 | (0.782) | 4454 | 10.0000 | 9.79133(QM) | MP |
| | 31 Vinyl Acetate | 86 | 3.276 | 3.276 | (0.785) | 1240 | 1.00000 | 0.891049(aQ) | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.461 | 3.462 | (0.830) | 9228 | 1.00000 | 0.874773(a) | |
| | 33 2,2-Dichloropropane | 77 | 3.521 | 3.522 | (0.844) | 9944 | 1.00000 | 0.880243(a) | |
| | 34 Bromochloromethane | 128 | 3.576 | 3.576 | (0.857) | 3622 | 1.00000 | 0.796188(a) | |
| | 35 Cyclohexane | 84 | 3.587 | 3.587 | (0.860) | 11261 | 1.00000 | 0.889664(a) | |
| | 36 Chloroform | 83 | 3.598 | 3.598 | (0.863) | 12667 | 1.00000 | 0.827831(a) | |
| | 37 Ethyl Acetate | 43 | 3.641 | 3.642 | (0.873) | 8670 | 1.00000 | 0.860873(a) | |
| | 38 Methyl acrylate | 55 | 3.652 | 3.653 | (0.876) | 7047 | 1.00000 | 0.829585(aQ) | |
| | 39 Carbon Tetrachloride | 117 | 3.696 | 3.696 | (0.886) | 6249 | 1.00000 | 0.966574(aM) | MP |
| $ | 41 Dibromofluoromethane | 113 | 3.707 | 3.707 | (0.889) | 257474 | 30.0000 | 29.5526 | |
| | 40 Tetrahydrofuran | 42 | 3.696 | 3.696 | (0.886) | 11632 | 5.00000 | 4.47919 | |
| | 42 1,1,1-Trichloroethane | 97 | 3.739 | 3.740 | (0.897) | 10242 | 1.00000 | 0.859956(a) | |
| | 43 2-Butanone | 72 | 3.767 | 3.767 | (0.903) | 5763 | 5.00000 | 4.59056 | |
| | 44 1,1-Dichloropropene | 75 | 3.799 | 3.800 | (0.911) | 9289 | 1.00000 | 0.824536(a) | |
| | 45 1-Chlorobutane | 41 | 3.821 | 3.822 | (0.916) | 6138 | 1.00000 | 0.847236(a) | |
| | 46 Heptane | 71 | 3.887 | 3.887 | (0.932) | 5903 | 1.00000 | 0.901887(aQ) | |
| | 47 Benzene | 78 | 3.941 | 3.942 | (0.945) | 31790 | 1.00000 | 0.918073(a) | |
| | 48 Propionitrile | 54 | 3.941 | 3.942 | (0.945) | 6433 | 5.00000 | 4.60203(Q) | |
| | 49 Methacrylonitrile | 67 | 3.952 | 3.953 | (0.948) | 3144 | 1.00000 | 0.750289(aQM) | H |
| | 50 tert-Amyl methyl ether | 73 | 3.974 | 3.975 | (0.953) | 20603 | 1.00000 | 0.870331(a) | |
| | 54 Isobutyl alcohol | 42 | 3.980 | 3.980 | (0.954) | 1830 | 10.0000 | 12.5329(QM) | MP |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.012 | 4.013 | (0.962) | 278313 | 30.0000 | 30.3035 | |
| | 52 1,2-Dichloroethane | 62 | 4.056 | 4.056 | (0.973) | 10009 | 1.00000 | 0.919501(aQ) | |
| | 53 tert-Amyl Alcohol | 59 | 4.061 | 4.062 | (0.974) | 3778 | 5.00000 | 5.13106 | |
| * | 55 Fluorobenzene | 96 | 4.170 | 4.171 | (1.000) | 1104188 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.170 | 4.171 | (1.000) | 50206 | 1.00000 | 0.910347(aQ) | |
| | 57 Trichloroethene | 95 | 4.269 | 4.269 | (1.024) | 7711 | 1.00000 | 0.879887(a) | |
| | 58 Methyl cyclohexane | 83 | 4.274 | 4.275 | (0.692) | 12703 | 1.00000 | 0.929667(a) | |
| | 59 tert-Amyl Ethylether | 59 | 4.372 | 4.373 | (1.048) | 14413 | 1.00000 | 0.956612(a) | |
| | 60 Dibromomethane | 93 | 4.525 | 4.526 | (1.085) | 4615 | 1.00000 | 0.833015(a) | |
| | 61 1,2-Dichloropropane | 63 | 4.585 | 4.586 | (1.099) | 7377 | 1.00000 | 0.885179(a) | |
| | 62 Bromodichloromethane | 83 | 4.607 | 4.607 | (1.105) | 7191 | 1.00000 | 0.946015(a) | |
| | 63 Methyl methacrylate | 41 | 4.662 | 4.662 | (1.118) | 5964 | 1.00000 | 0.904227(aM) | IH |
| | 64 1,4-Dioxane | 88 | 4.722 | 4.722 | (1.132) | 2745 | 25.0000 | 21.2773(Q) | |
| | 65 2-Chloroethylvinyl ether | 63 | 4.934 | 4.935 | (1.183) | 3719 | 1.00000 | 0.975581(a) | |
| | 66 cis-1,3-Dichloropropene | 75 | 4.994 | 4.995 | (0.809) | 10566 | 1.00000 | 1.01868 | |
| | 67 Octane | 85 | 5.000 | 5.000 | (0.810) | 4330 | 1.00000 | 0.835760(a) | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 1006001 | 30.0000 | 30.1635 | |
| | 69 Toluene | 92 | 5.153 | 5.153 | (0.835) | 19855 | 1.00000 | 0.939263(a) | |
| | 70 Chloroacetonitrile | 75 | 5.207 | 5.208 | (0.844) | 2128 | 5.00000 | 4.03819(M) | H |
| | 71 2-Nitropropane | 41 | 5.300 | 5.300 | (0.859) | 7049 | 5.00000 | 4.88782(Q) | |
| | 72 1,1-Dichloro-2-Propanone | 63 | 5.316 | 5.317 | (0.861) | 649 | 5.00000 | 4.81139(QM) | H |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.371 | 5.371 | (0.870) | 29113 | 5.00000 | 4.48308 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.409 | 5.410 | (0.876) | 8929 | 1.00000 | 0.969277(a) | |
| | 74 Tetrachloroethene | 164 | 5.409 | 5.410 | (0.876) | 6888 | 1.00000 | 0.894846(a) | |

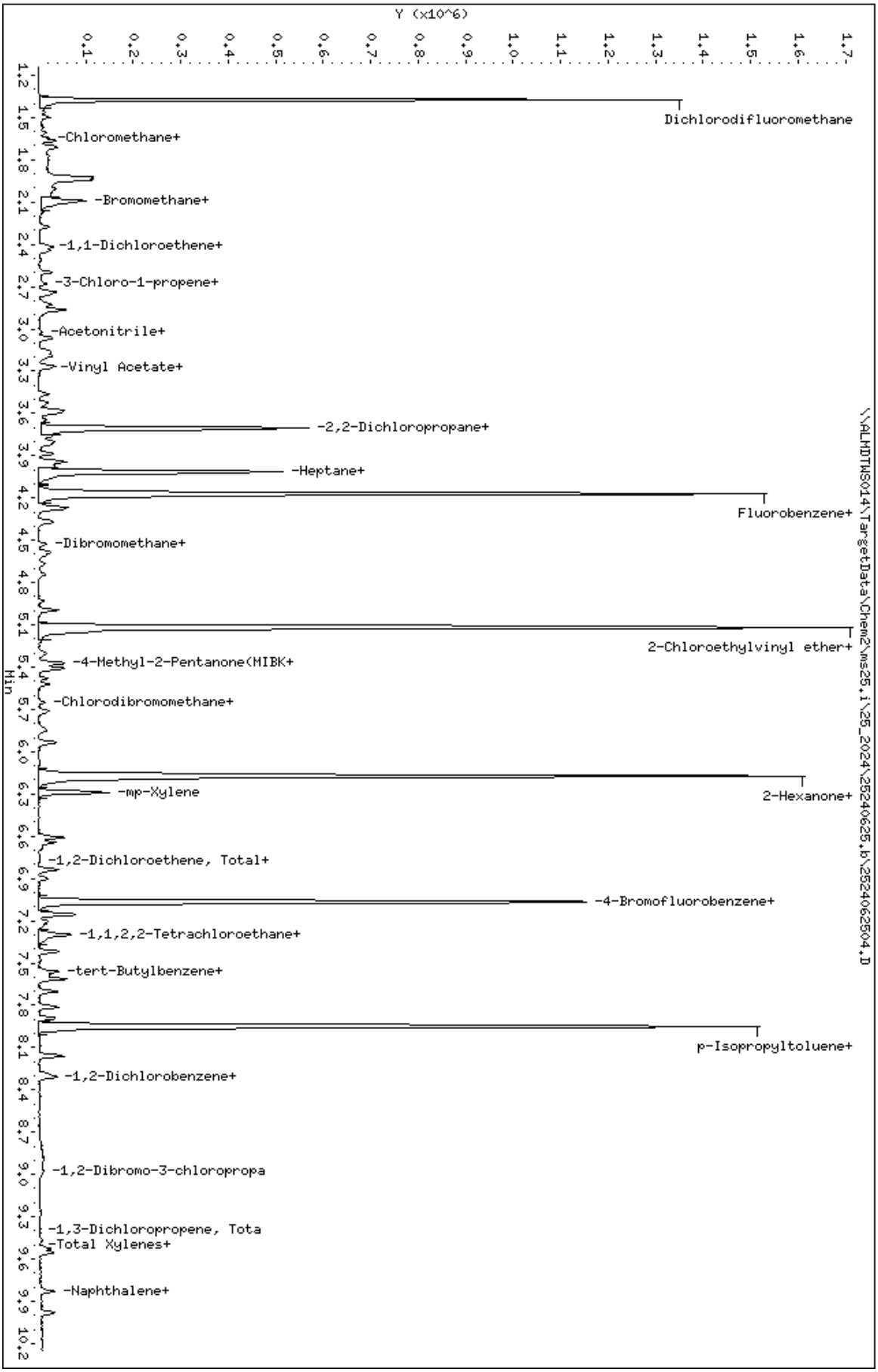
Data File: 2524062504.D
Report Date: 25-Jun-2024 19:32



| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl Methacrylate | 69 | 5.480 | 5.481 | (0.888) | 8256 | 1.00000 | 0.959694(aM) | H |
| | 77 1,1,2-Trichloroethane | 83 | 5.524 | 5.524 | (0.895) | 6199 | 1.00000 | 0.954452(a) | |
| | 78 Chlorodibromomethane | 129 | 5.649 | 5.650 | (0.915) | 5551 | 1.00000 | 0.966990(a) | |
| | 79 1,3-Dichloropropane | 76 | 5.709 | 5.710 | (0.925) | 11310 | 1.00000 | 0.881368(a) | |
| | 80 1,2-Dibromoethane | 107 | 5.829 | 5.830 | (0.944) | 6550 | 1.00000 | 0.988273(a) | |
| | 81 2-Hexanone | 43 | 5.933 | 5.933 | (0.961) | 21128 | 5.00000 | 4.78219 | |
| | 82 1-Chlorohexane | 91 | 6.146 | 6.146 | (0.996) | 8250 | 1.00000 | 0.741857(aQM) | I |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.174 | (1.000) | 421251 | 30.0000 | | |
| | 84 Chlorobenzene | 112 | 6.184 | 6.184 | (1.002) | 18599 | 1.00000 | 0.863383(a) | |
| | 85 Ethylbenzene | 106 | 6.189 | 6.190 | (1.003) | 13774 | 1.00000 | 0.962259(aQ) | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | 6.222 | 6.223 | (1.008) | 4988 | 1.00000 | 0.927321(aQ) | |
| | 87 mp-Xylene | 106 | 6.288 | 6.288 | (1.019) | 36347 | 2.00000 | 1.65723 | |
| | 88 o-Xylene | 106 | 6.610 | 6.610 | (1.071) | 13278 | 1.00000 | 0.926224(a) | |
| | 89 Styrene | 104 | 6.648 | 6.648 | (0.836) | 15866 | 1.00000 | 1.00647(M) | MP |
| | 90 Bromoform | 173 | 6.686 | 6.686 | (0.841) | 3823 | 1.00000 | 0.967694(a) | |
| | 91 Isopropylbenzene | 105 | 6.839 | 6.839 | (0.860) | 26101 | 1.00000 | 0.981453(a) | |
| M | 100 1,2-Dichloroethene, Total | 61 | | | | 18636 | 2.00000 | 1.77905 | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 306032 | 30.0000 | 29.5640 | |
| | 93 Bromobenzene | 156 | 7.155 | 7.156 | (0.900) | 7998 | 1.00000 | 0.904064(a) | |
| | 94 n-Propylbenzene | 120 | 7.155 | 7.156 | (0.900) | 7505 | 1.00000 | 0.829613(aQ) | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | 7.204 | 7.205 | (0.906) | 7231 | 1.00000 | 0.822362(a) | |
| | 96 o-Chlorotoluene | 91 | 7.292 | 7.292 | (0.917) | 21107 | 1.00000 | 0.886814(a) | |
| | 97 1,3,5-Trimethylbenzene | 105 | 7.302 | 7.303 | (0.918) | 22064 | 1.00000 | 0.876358(a) | |
| | 98 1,2,3-Trichloropropane | 110 | 7.324 | 7.325 | (0.921) | 2707 | 1.00000 | 0.954519(a) | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | 7.341 | 7.341 | (0.923) | 1628 | 1.00000 | 0.890063(aM) | H |
| | 101 p-Chlorotoluene | 91 | 7.417 | 7.418 | (0.933) | 18321 | 1.00000 | 0.849824(a) | |
| | 102 tert-Butylbenzene | 134 | 7.559 | 7.559 | (0.951) | 4719 | 1.00000 | 0.783690(aQ) | |
| | 103 Pentachloroethane | 117 | 7.581 | 7.581 | (0.953) | 4178 | 1.00000 | 0.978968(aM) | MP |
| | 104 1,2,4-Trimethylbenzene | 105 | 7.614 | 7.614 | (0.957) | 27718 | 1.00000 | 0.890516(a) | |
| | 105 sec-Butylbenzene | 105 | 7.706 | 7.707 | (0.969) | 25418 | 1.00000 | 0.816857(a) | |
| | 106 p-Isopropyltoluene | 134 | 7.815 | 7.816 | (0.983) | 5960 | 1.00000 | 0.836400(a) | |
| | 107 1,3-Dichlorobenzene | 146 | 7.892 | 7.892 | (0.992) | 13700 | 1.00000 | 0.919202(a) | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 374177 | 30.0000 | (Q) | |
| | 109 1,4-Dichlorobenzene | 146 | 7.963 | 7.963 | (1.001) | 13912 | 1.00000 | 0.895502(aQM) | I |
| | 110 Benzyl Chloride | 126 | 8.159 | 8.160 | (1.026) | 2620 | 1.00000 | 1.16660(Q) | |
| | 111 n-Butylbenzene | 134 | 8.159 | 8.160 | (1.026) | 5626 | 1.00000 | 0.844859(aQ) | |
| | 112 Hexachloroethane | 117 | 8.285 | 8.285 | (1.042) | 3087 | 1.00000 | 0.962691(aQM) | IH |
| | 113 1,2-Dichlorobenzene | 146 | 8.312 | 8.311 | (1.045) | 12858 | 1.00000 | 0.905673(a) | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | 8.983 | 8.984 | (1.130) | 1191 | 1.00000 | 1.11644(Q) | |
| | 115 Nitrobenzene | 77 | 9.463 | 9.464 | (1.190) | 3058 | 10.0000 | 6.30658 | |
| | 116 Hexachlorobutadiene | 225 | 9.523 | 9.524 | (1.198) | 2971 | 1.00000 | 0.880953(a) | |
| M | 120 1,3-Dichloropropene, Total | 75 | | | | 19495 | 2.00000 | 1.98796 | |
| | 117 1,2,4-Trichlorobenzene | 180 | 9.556 | 9.556 | (1.202) | 7990 | 1.00000 | 0.849831(a) | |
| M | 121 Total Xylenes | 106 | | | | 49625 | 3.00000 | 2.58346 | |
| | 118 Naphthalene | 128 | 9.829 | 9.829 | (1.236) | 18088 | 1.00000 | 0.970581(a) | |
| | 119 1,2,3-Trichlorobenzene | 180 | 9.982 | 9.982 | (1.255) | 7150 | 1.00000 | 0.964947(a) | |

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



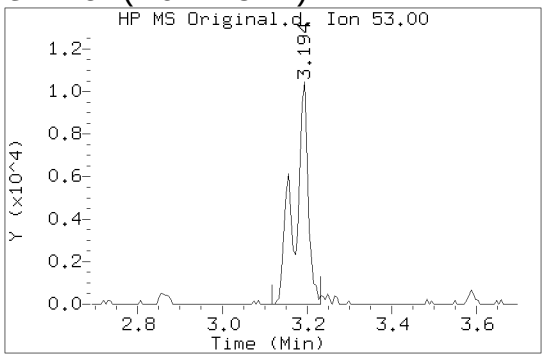

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Client ID:
Sample Info: 1234;;1;1;1;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: ILY
Column diameter: 0.25
Page 1

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062504.D
Inj Date : 25-JUN-2024 11:23
InstruID : ms25.i
LabSampID : 1234

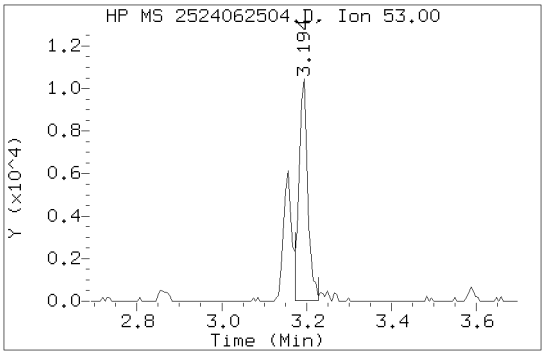
## Acrylonitrile (107-13-1)

Reason Code: MP

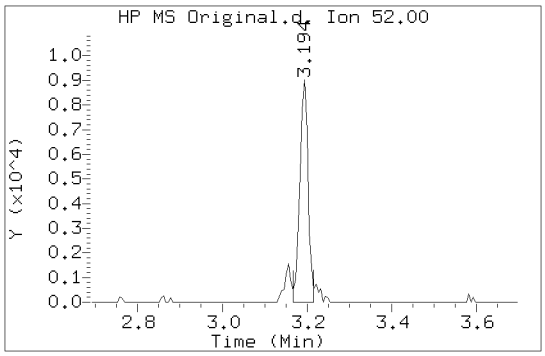
**BEFORE**
MASS
53
AREA
23271
HEIGHT
10451
25-Jun-2024
18:43



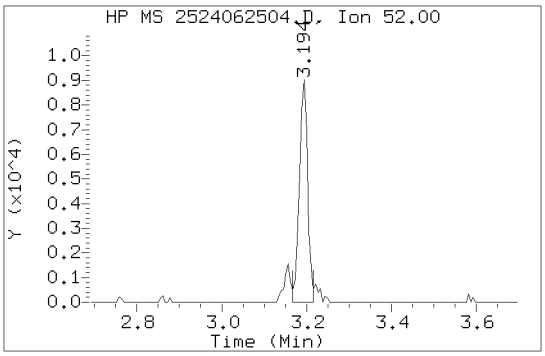

**AFTER**
MASS
53
AREA
15210
HEIGHT
10430
25-Jun-2024
19:31



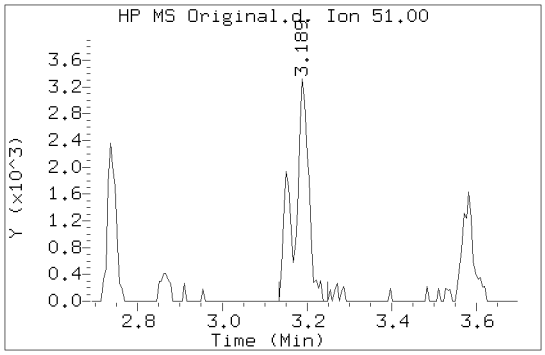

**BEFORE**
MASS
52
AREA
12339
HEIGHT
9017
25-Jun-2024
18:43



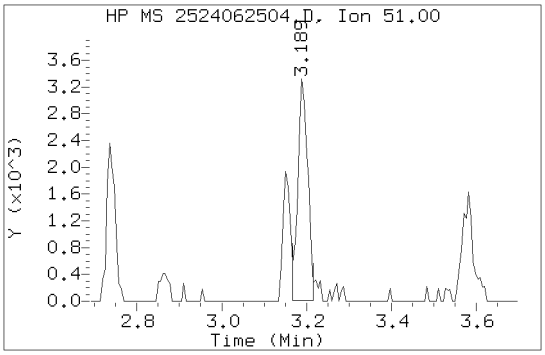

**AFTER**
MASS
52
AREA
12339
HEIGHT
9017
25-Jun-2024
19:31




**BEFORE**
MASS
51
AREA
8019
HEIGHT
3321
25-Jun-2024
18:43



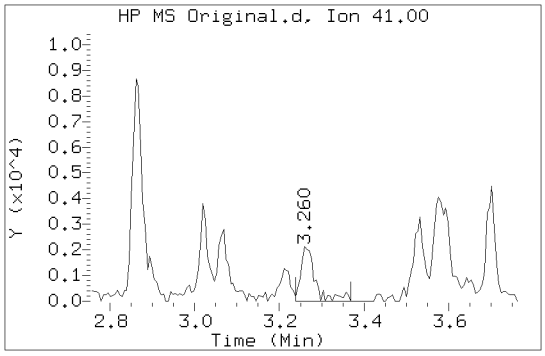

**AFTER**
MASS
51
AREA
5480
HEIGHT
3310
25-Jun-2024
19:31



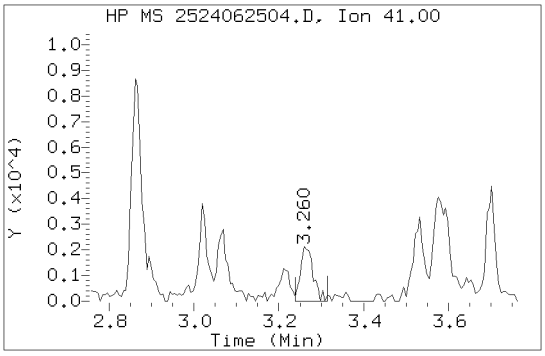

## n-Propanol (71-23-8)

Reason Code: MP

**BEFORE**
MASS
41
AREA
5027
HEIGHT
2128
25-Jun-2024
18:43




**AFTER**
MASS
41
AREA
4454
HEIGHT
2128
25-Jun-2024
19:31

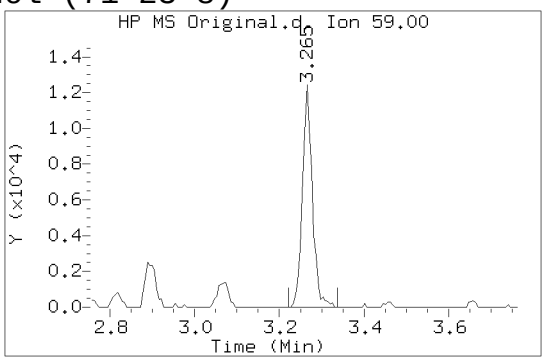


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InstruID : ms25.i
LabSampID : 1234

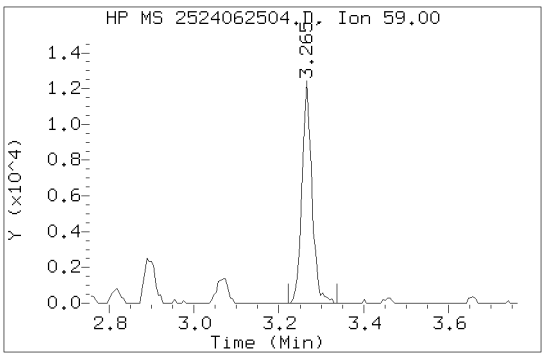
## n-Propanol (71-23-8)

Reason Code: MP

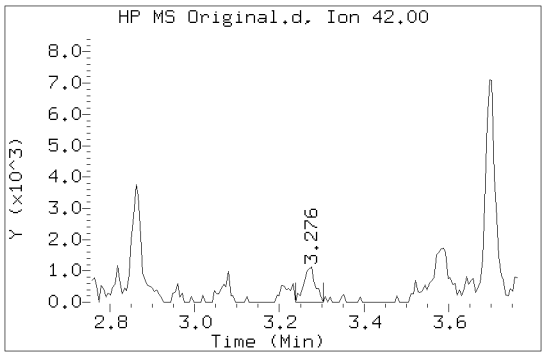
BEFORE
MASS
59
AREA
20293
HEIGHT
12432
25-Jun-2024
18:43



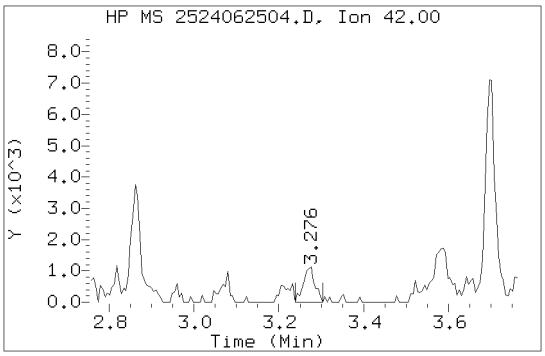

AFTER
MASS
59
AREA
20293
HEIGHT
12432
25-Jun-2024
19:31




BEFORE
MASS
42
AREA
2139
HEIGHT
1121
25-Jun-2024
18:43



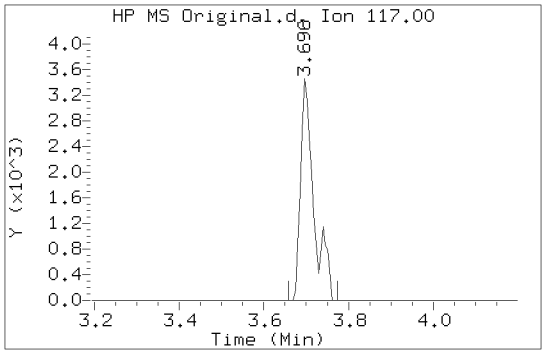

AFTER
MASS
42
AREA
2139
HEIGHT
1121
25-Jun-2024
19:31



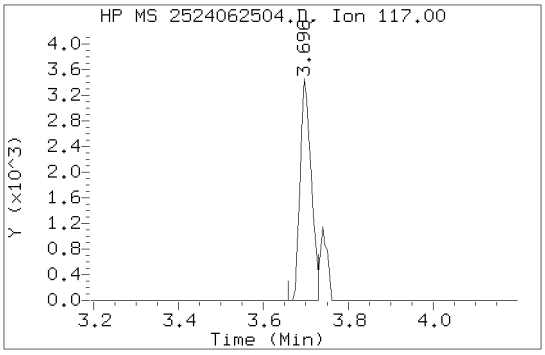

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

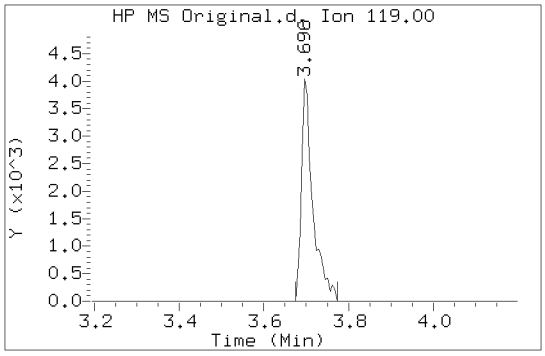
BEFORE
MASS
117
AREA
7523
HEIGHT
3456
25-Jun-2024
18:43



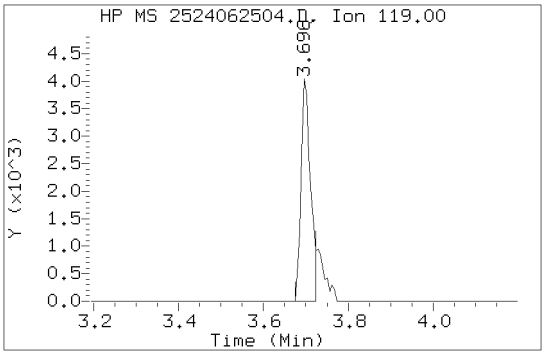

AFTER
MASS
117
AREA
6249
HEIGHT
3456
25-Jun-2024
19:31




BEFORE
MASS
119
AREA
7554
HEIGHT
4041
25-Jun-2024
18:43




AFTER
MASS
119
AREA
6277
HEIGHT
4041
25-Jun-2024
19:31

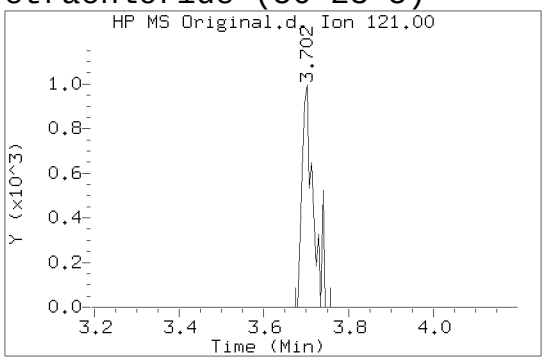


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InstruID : ms25.i
LabSampID : 1234

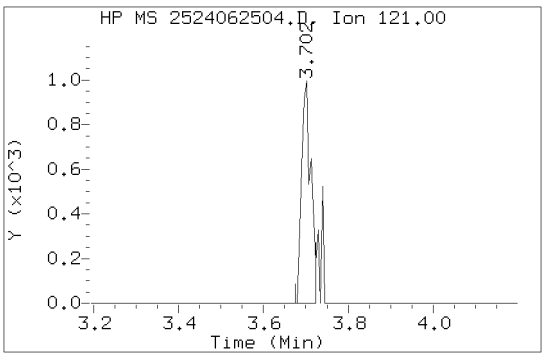
## Carbon Tetrachloride (56-23-5)

Reason Code: MP

BEFORE
MASS
121
AREA
1802
HEIGHT
996
25-Jun-2024
18:43



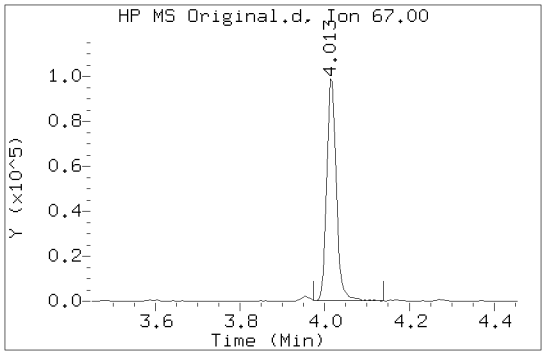

AFTER
MASS
121
AREA
1523
HEIGHT
996
25-Jun-2024
19:31



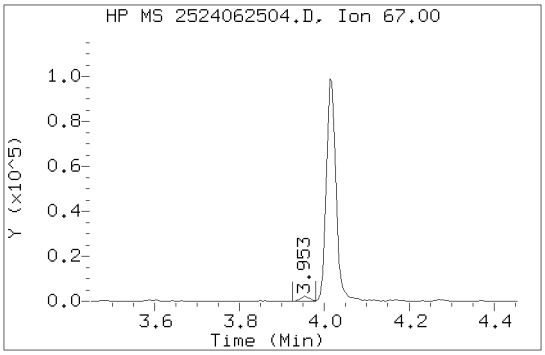

## Methacrylonitrile (126-98-7)

Reason Code: H

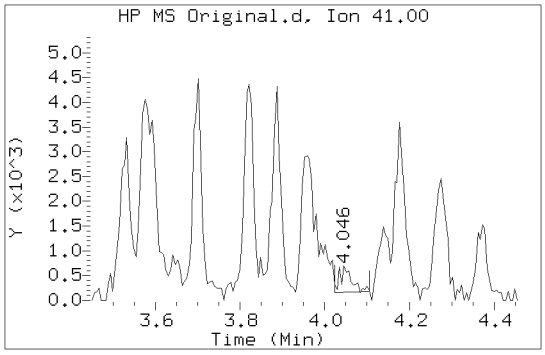
BEFORE
MASS
67
AREA
153991
HEIGHT
98720
25-Jun-2024
18:43



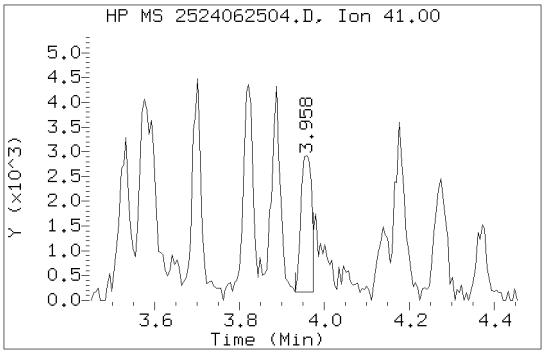

AFTER
MASS
67
AREA
3144
HEIGHT
2212
25-Jun-2024
19:31



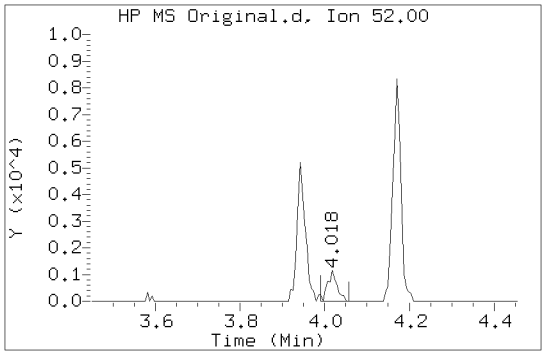

BEFORE
MASS
41
AREA
1015
HEIGHT
529
25-Jun-2024
18:43



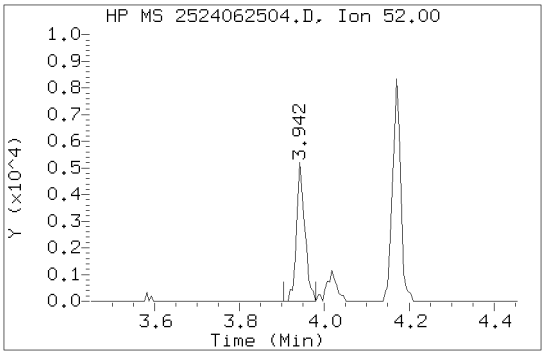

AFTER
MASS
41
AREA
4932
HEIGHT
2756
25-Jun-2024
19:31




BEFORE
MASS
52
AREA
1766
HEIGHT
1148
25-Jun-2024
18:43




AFTER
MASS
52
AREA
7144
HEIGHT
5200
25-Jun-2024
19:31

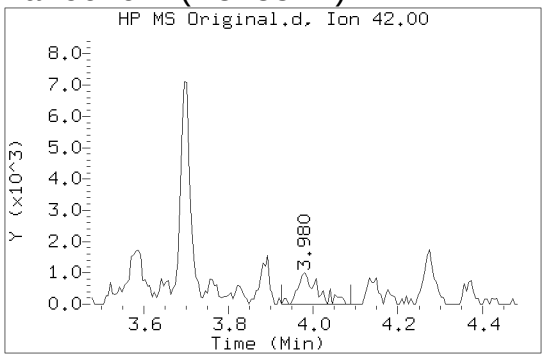


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InstruID : ms25.i
LabSampID : 1234

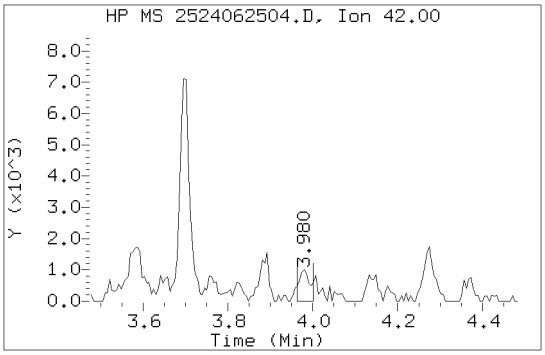
## Isobutyl alcohol (78-83-1)

Reason Code: MP

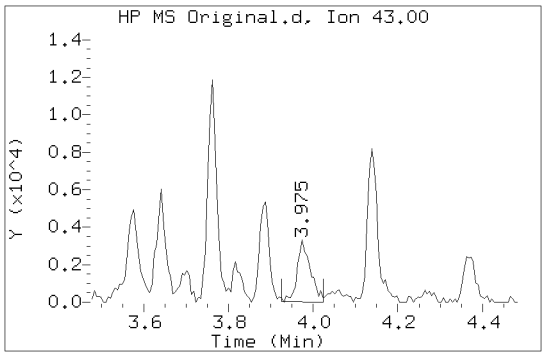
BEFORE
MASS
42
AREA
3324
HEIGHT
1001
25-Jun-2024
18:43



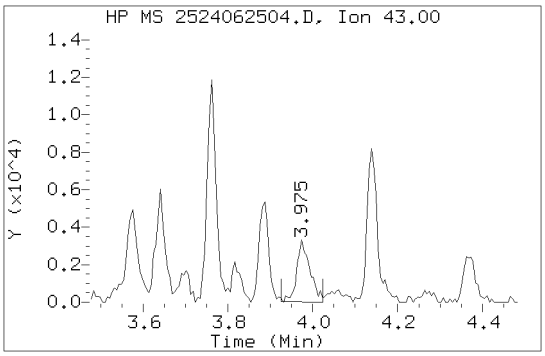

AFTER
MASS
42
AREA
1830
HEIGHT
1001
25-Jun-2024
19:31



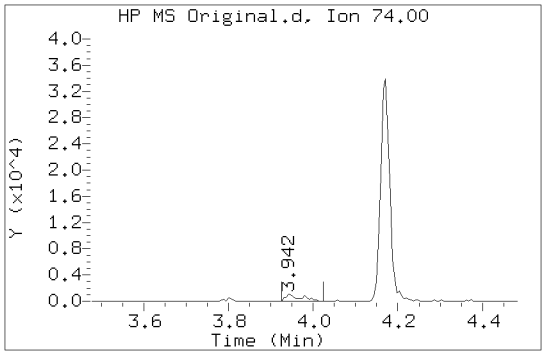

BEFORE
MASS
43
AREA
7196
HEIGHT
3319
25-Jun-2024
18:43



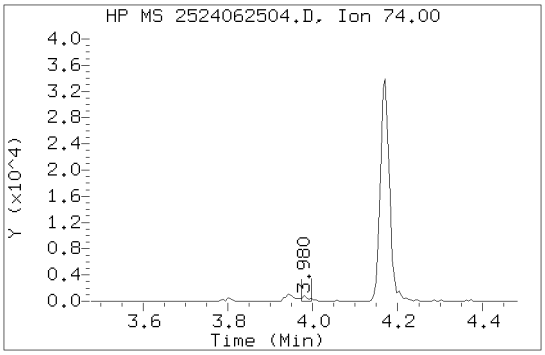

AFTER
MASS
43
AREA
7196
HEIGHT
3319
25-Jun-2024
19:31




BEFORE
MASS
74
AREA
2579
HEIGHT
1075
25-Jun-2024
18:43



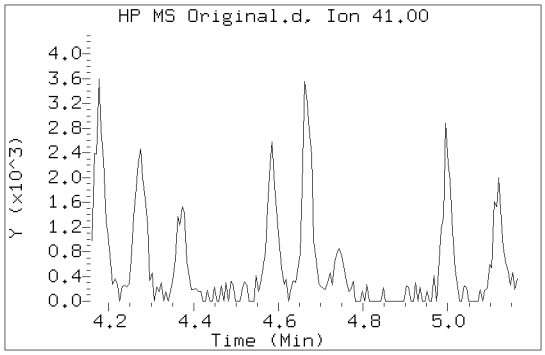

AFTER
MASS
74
AREA
806
HEIGHT
853
25-Jun-2024
19:31



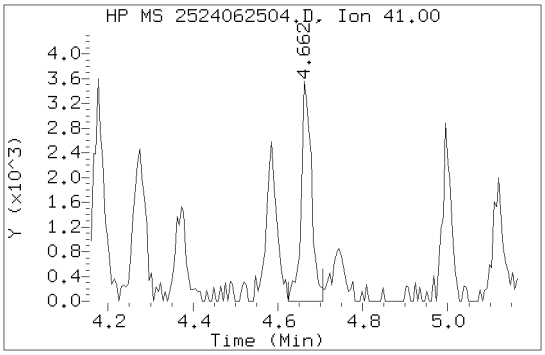

## Methyl methacrylate (80-62-6)

Reason Code: IH

BEFORE
MASS
41
AREA
0
HEIGHT
0
25-Jun-2024
18:43




AFTER
MASS
41
AREA
5964
HEIGHT
3556
25-Jun-2024
19:31

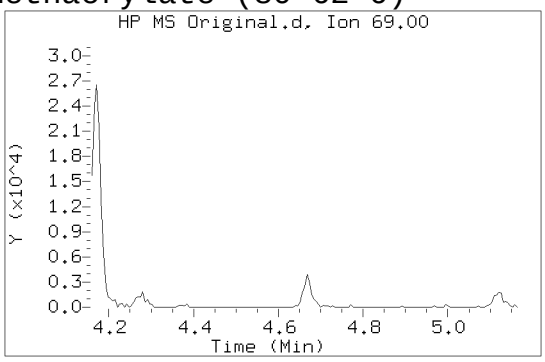


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InstruID : ms25.i
LabSampID : 1234

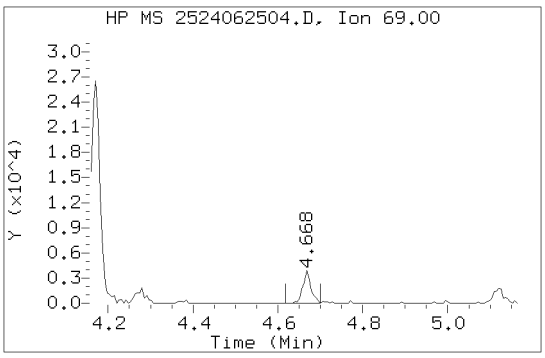
## Methyl methacrylate (80-62-6)

Reason Code: IH

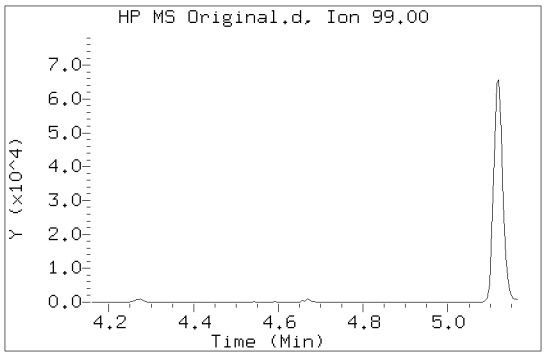
BEFORE
MASS
69
AREA
0
HEIGHT
0
25-Jun-2024
18:43



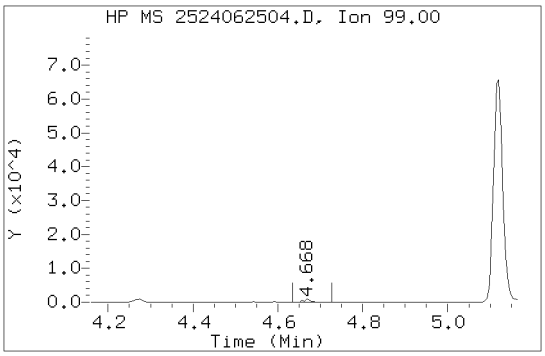

AFTER
MASS
69
AREA
5139
HEIGHT
3943
25-Jun-2024
19:31




BEFORE
MASS
99
AREA
0
HEIGHT
0
25-Jun-2024
18:43



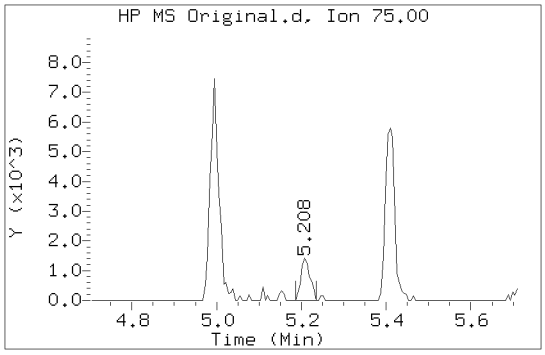

AFTER
MASS
99
AREA
946
HEIGHT
944
25-Jun-2024
19:31



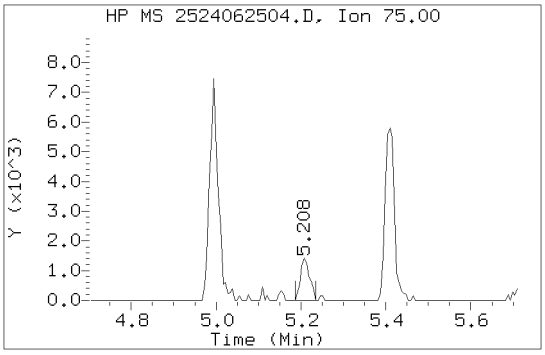

## Chloroacetonitrile (107-14-2)

Reason Code: H

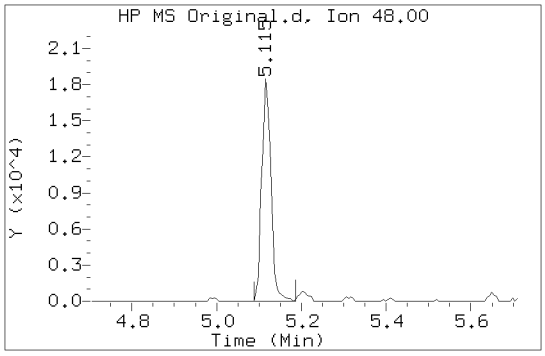
BEFORE
MASS
75
AREA
2128
HEIGHT
1432
25-Jun-2024
18:43



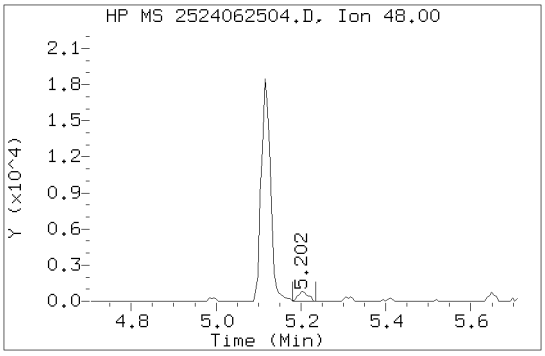

AFTER
MASS
75
AREA
2128
HEIGHT
1432
25-Jun-2024
19:31




BEFORE
MASS
48
AREA
28259
HEIGHT
18480
25-Jun-2024
18:43




AFTER
MASS
48
AREA
1300
HEIGHT
809
25-Jun-2024
19:31

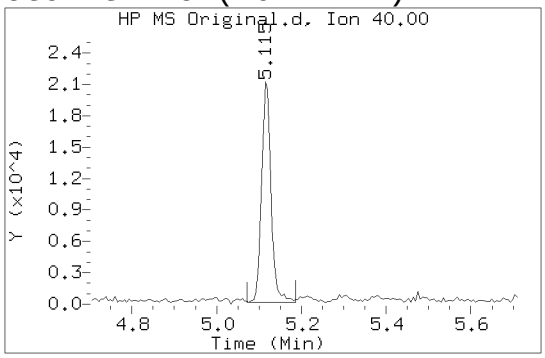


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Inj Date : 25-JUN-2024 11:23
InstruID : ms25.i
LabSampID : 1234

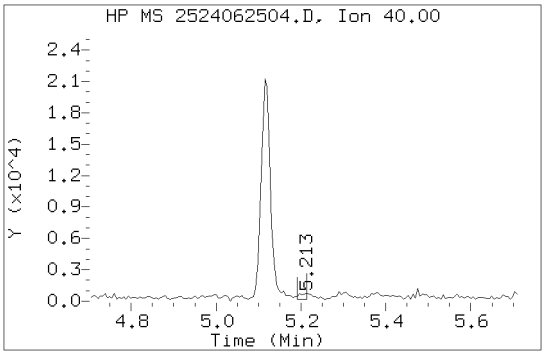
## Chloroacetonitrile (107-14-2)

Reason Code: H

BEFORE
MASS
40
AREA
32691
HEIGHT
21036
25-Jun-2024
18:43



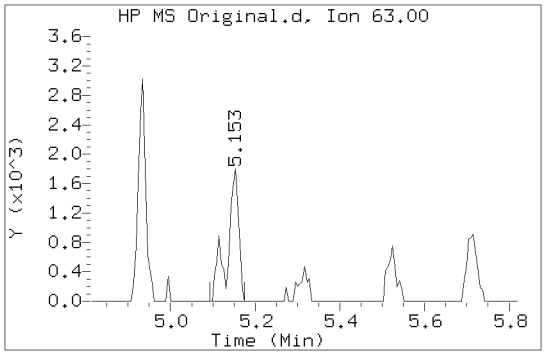

AFTER
MASS
40
AREA
731
HEIGHT
590
25-Jun-2024
19:31



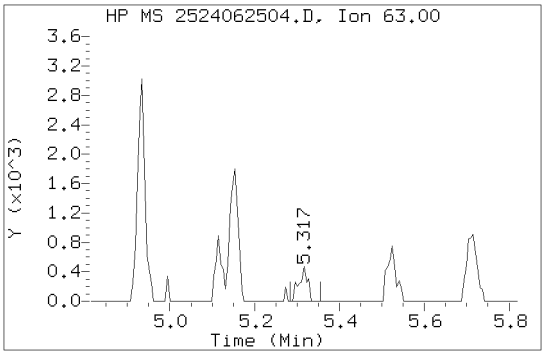

## 1,1-Dichloro-2-Propanone (513-88-2)

Reason Code: H

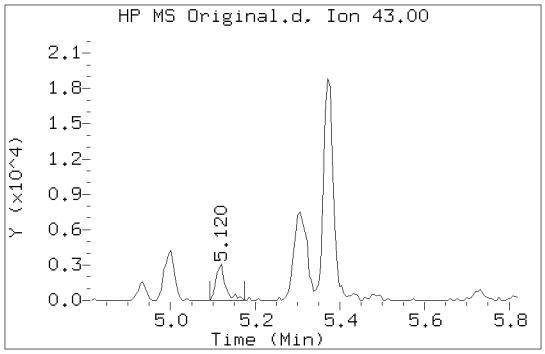
BEFORE
MASS
63
AREA
3388
HEIGHT
1803
25-Jun-2024
18:43



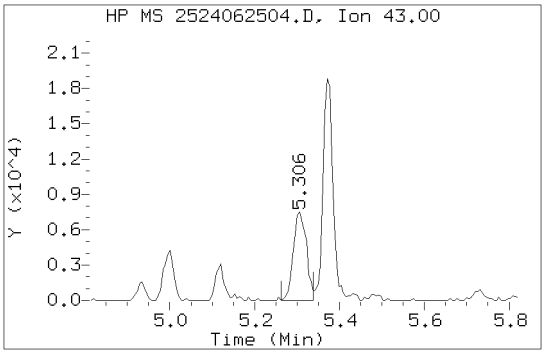

AFTER
MASS
63
AREA
649
HEIGHT
468
25-Jun-2024
19:31



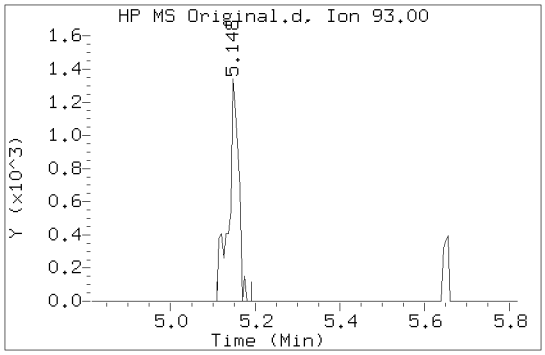

BEFORE
MASS
43
AREA
4716
HEIGHT
3124
25-Jun-2024
18:43



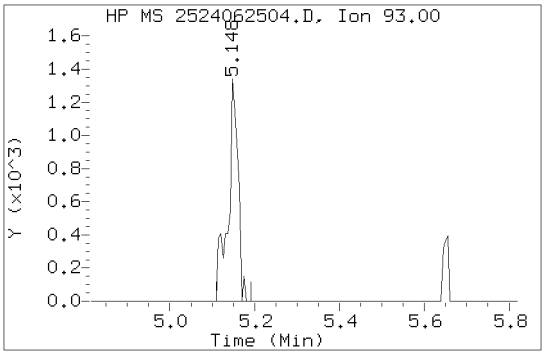

AFTER
MASS
43
AREA
16221
HEIGHT
7506
25-Jun-2024
19:31




BEFORE
MASS
93
AREA
2189
HEIGHT
1341
25-Jun-2024
18:43




AFTER
MASS
93
AREA
2189
HEIGHT
1341
25-Jun-2024
19:31

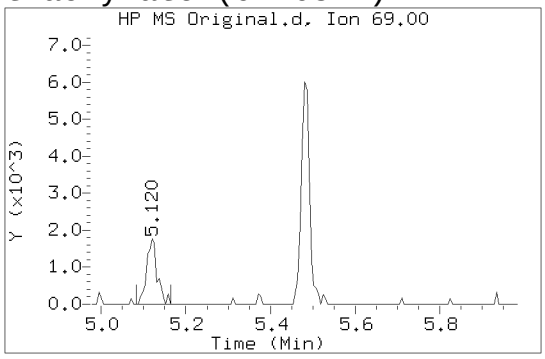


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InstruID : ms25.i
LabSampID : 1234

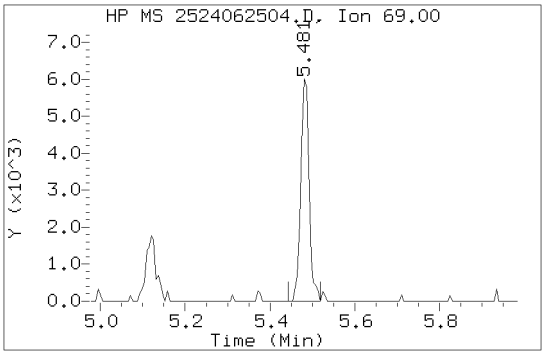
## Ethyl Methacrylate (97-63-2)

Reason Code: H

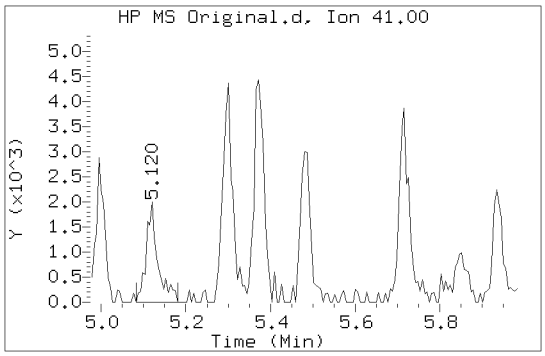
**BEFORE**
MASS
69
AREA
3115
HEIGHT
1778
25-Jun-2024
18:43



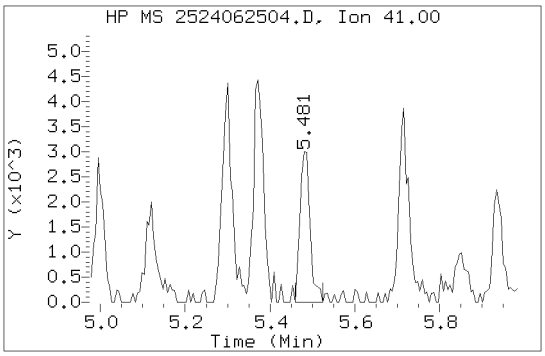

**AFTER**
MASS
69
AREA
8256
HEIGHT
6009
25-Jun-2024
19:31



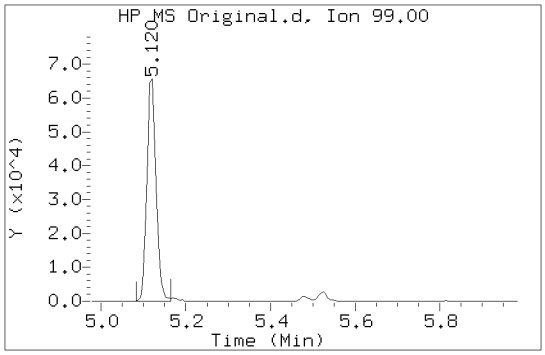

**BEFORE**
MASS
41
AREA
3826
HEIGHT
1996
25-Jun-2024
18:43



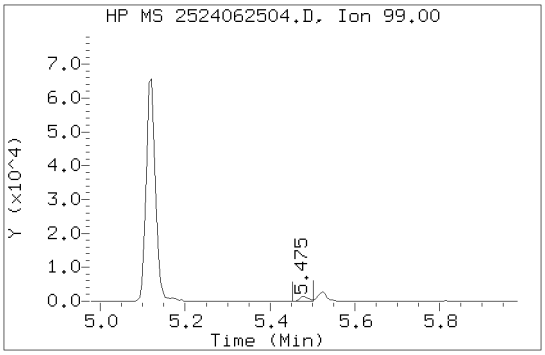

**AFTER**
MASS
41
AREA
4976
HEIGHT
2995
25-Jun-2024
19:31




**BEFORE**
MASS
99
AREA
99831
HEIGHT
65624
25-Jun-2024
18:43



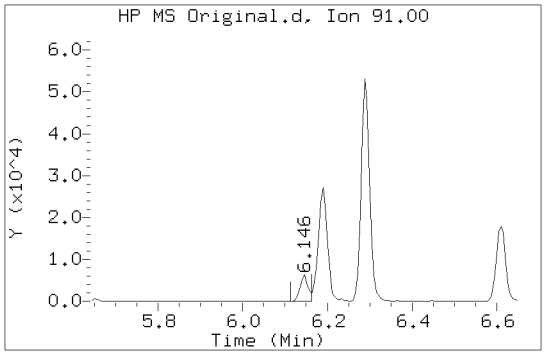

**AFTER**
MASS
99
AREA
1932
HEIGHT
1372
25-Jun-2024
19:31



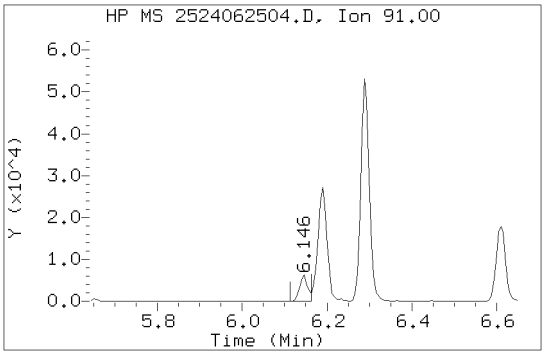

## 1-Chlorohexane (544-10-5)

Reason Code: I

**BEFORE**
MASS
91
AREA
8250
HEIGHT
6277
25-Jun-2024
18:43




**AFTER**
MASS
91
AREA
8250
HEIGHT
6277
25-Jun-2024
19:31

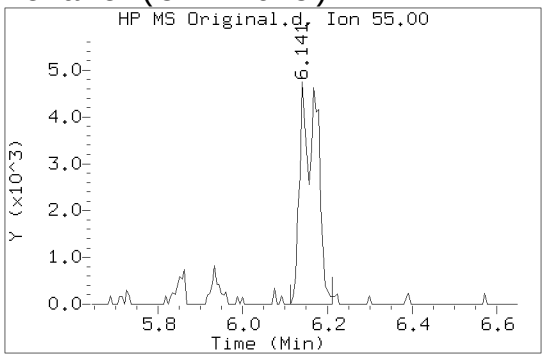


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LabSampID : 1234

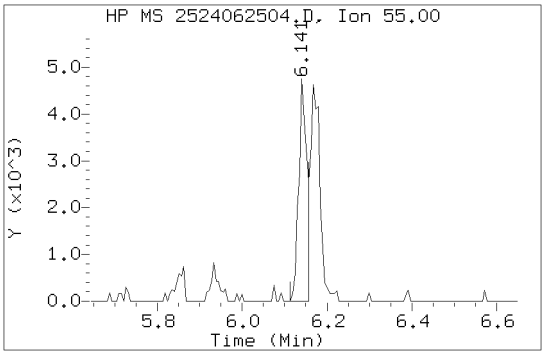
## 1-Chlorohexane (544-10-5)

Reason Code: I

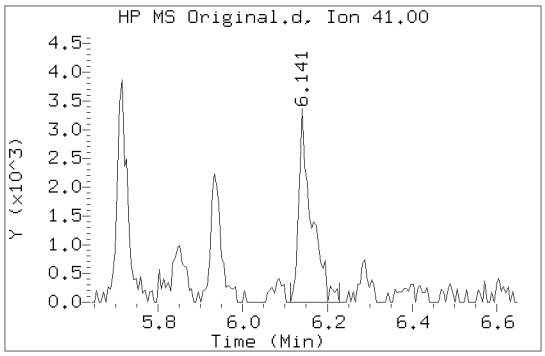
**BEFORE**
MASS
55
AREA
13140
HEIGHT
4749
25-Jun-2024
18:43



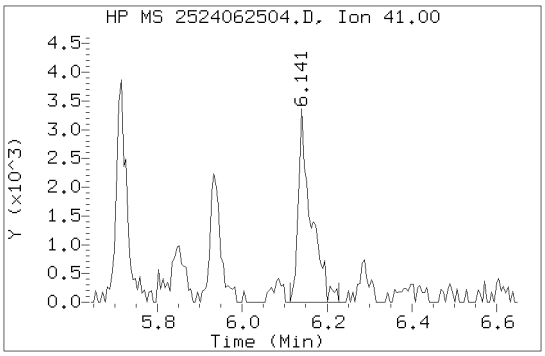

**AFTER**
MASS
55
AREA
6444
HEIGHT
4749
25-Jun-2024
19:31




**BEFORE**
MASS
41
AREA
7063
HEIGHT
3367
25-Jun-2024
18:43



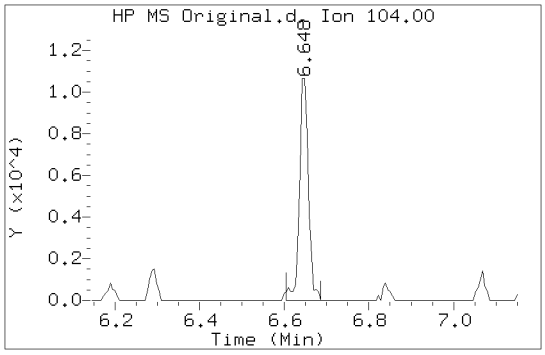

**AFTER**
MASS
41
AREA
7063
HEIGHT
3367
25-Jun-2024
19:31



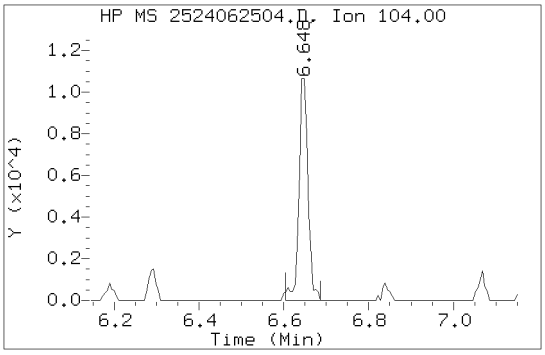

## Styrene (100-42-5)

Reason Code: MP

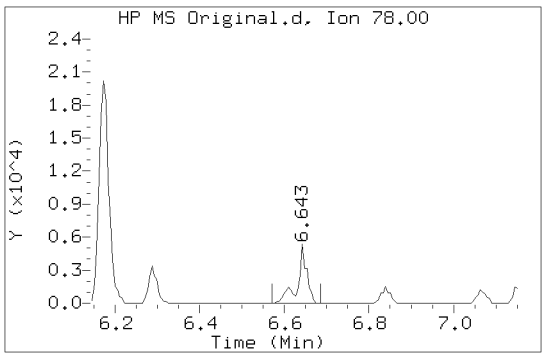
**BEFORE**
MASS
104
AREA
15866
HEIGHT
10647
25-Jun-2024
18:43



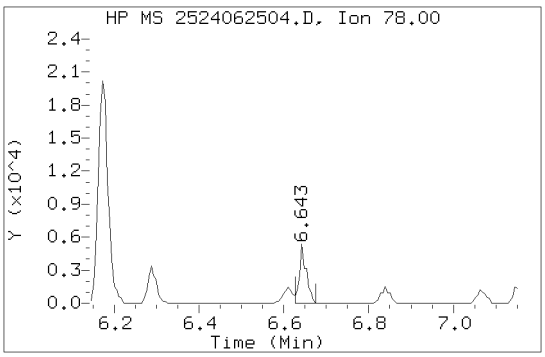

**AFTER**
MASS
104
AREA
15866
HEIGHT
10647
25-Jun-2024
19:31




**BEFORE**
MASS
78
AREA
8207
HEIGHT
5355
25-Jun-2024
18:43




**AFTER**
MASS
78
AREA
6144
HEIGHT
5355
25-Jun-2024
19:31

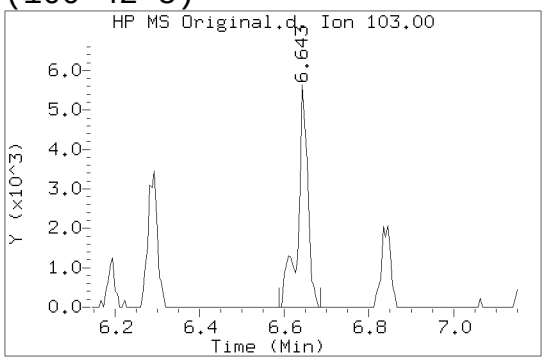


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LabSampID : 1234

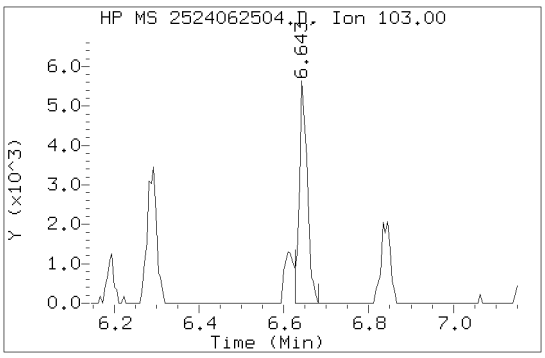
## Styrene (100-42-5)

Reason Code: MP

BEFORE
MASS
103
AREA
9253
HEIGHT
5637
25-Jun-2024
18:43



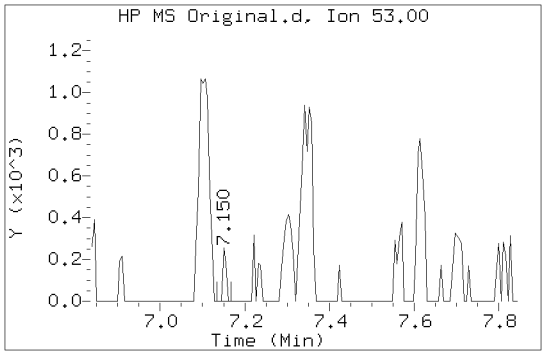

AFTER
MASS
103
AREA
7459
HEIGHT
5637
25-Jun-2024
19:31



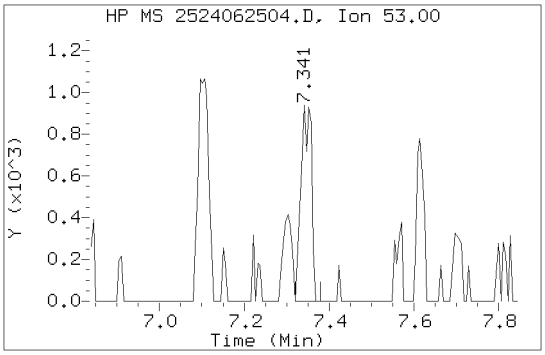

## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: H

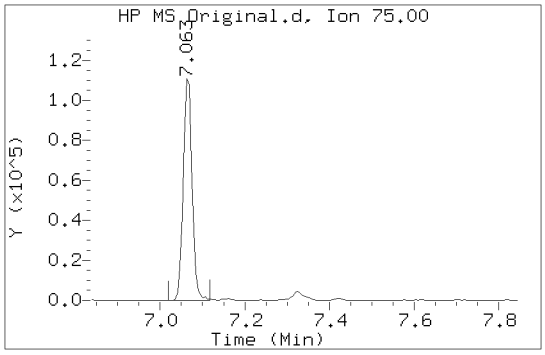
BEFORE
MASS
53
AREA
143
HEIGHT
257
25-Jun-2024
18:43



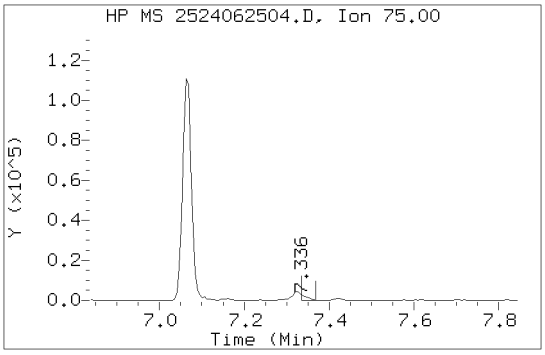

AFTER
MASS
53
AREA
1628
HEIGHT
940
25-Jun-2024
19:31



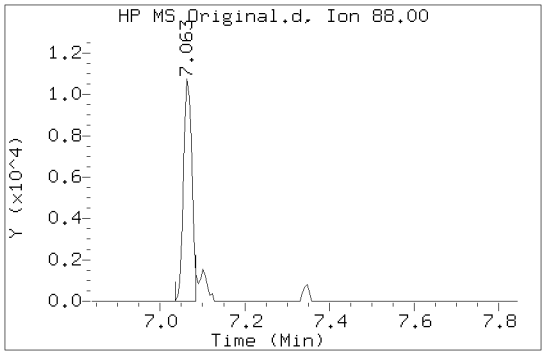

BEFORE
MASS
75
AREA
161091
HEIGHT
110816
25-Jun-2024
18:43



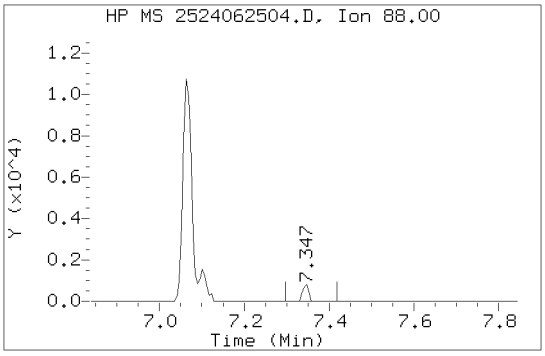

AFTER
MASS
75
AREA
2718
HEIGHT
2575
25-Jun-2024
19:31




BEFORE
MASS
88
AREA
14925
HEIGHT
10745
25-Jun-2024
18:43




AFTER
MASS
88
AREA
769
HEIGHT
794
25-Jun-2024
19:31

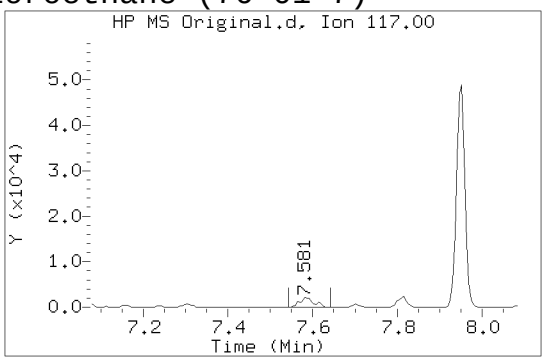


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InstruID : ms25.i
LabSampID : 1234

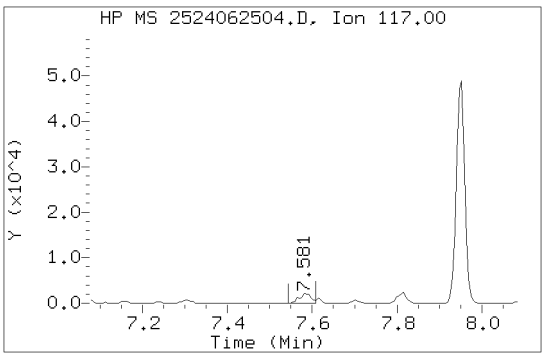
## Pentachloroethane (76-01-7)

Reason Code: MP

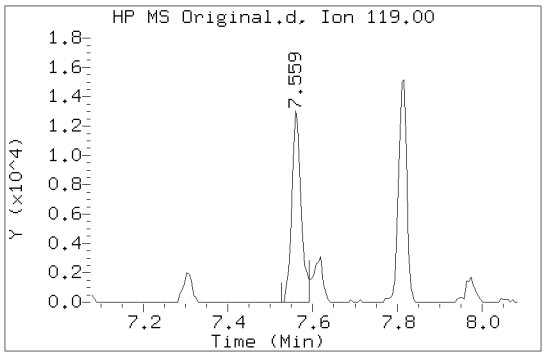
BEFORE
MASS
117
AREA
4937
HEIGHT
2162
25-Jun-2024
18:43



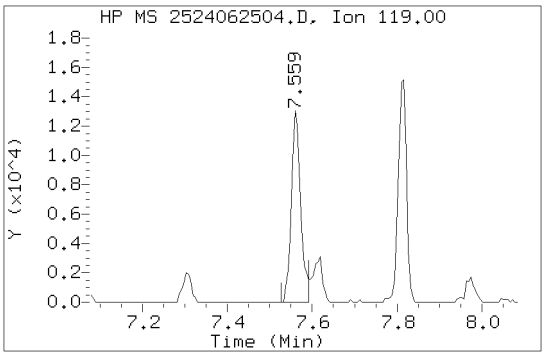

AFTER
MASS
117
AREA
4178
HEIGHT
2162
25-Jun-2024
19:31



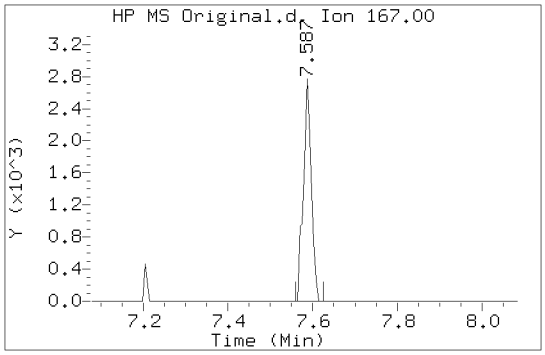

BEFORE
MASS
119
AREA
20109
HEIGHT
13053
25-Jun-2024
18:43



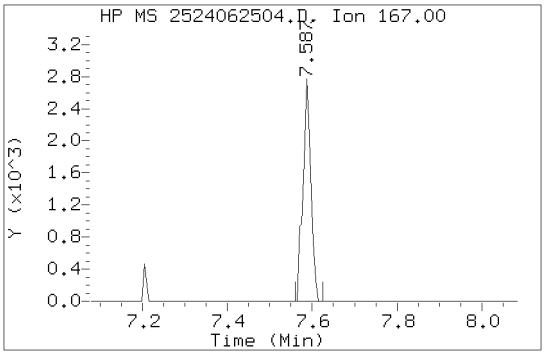

AFTER
MASS
119
AREA
20109
HEIGHT
13053
25-Jun-2024
19:31




BEFORE
MASS
167
AREA
3610
HEIGHT
2772
25-Jun-2024
18:43



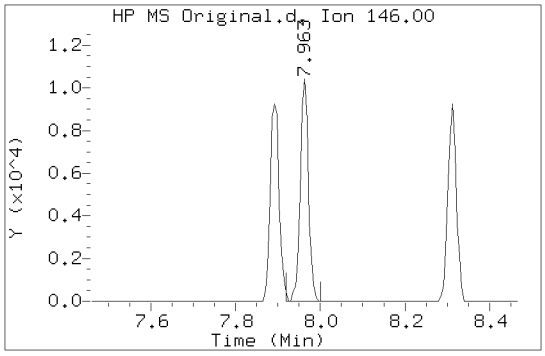

AFTER
MASS
167
AREA
3610
HEIGHT
2772
25-Jun-2024
19:31



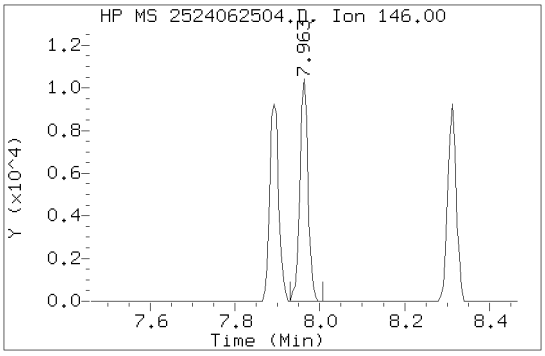

## 1,4-Dichlorobenzene (106-46-7)

Reason Code: I

BEFORE
MASS
146
AREA
14053
HEIGHT
10421
25-Jun-2024
18:43




AFTER
MASS
146
AREA
13912
HEIGHT
10421
25-Jun-2024
19:31

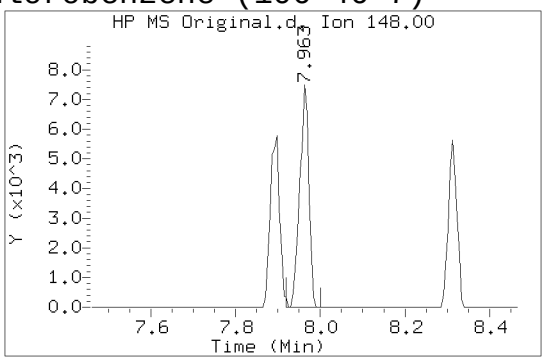


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Inj Date : 25-JUN-2024 11:23
InstruID : ms25.i
LabSampID : 1234

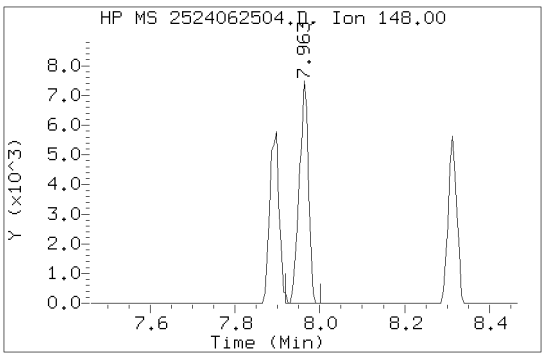
## 1,4-Dichlorobenzene (106-46-7)

Reason Code: I

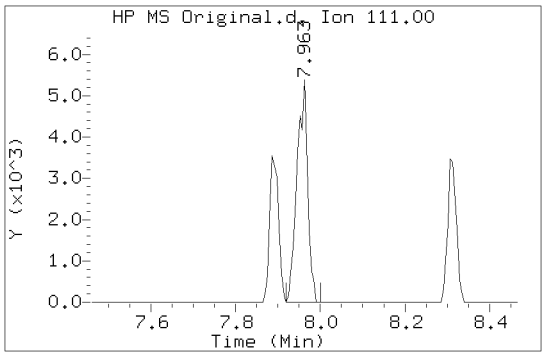
BEFORE
MASS
148
AREA
11321
HEIGHT
7492
25-Jun-2024
18:43



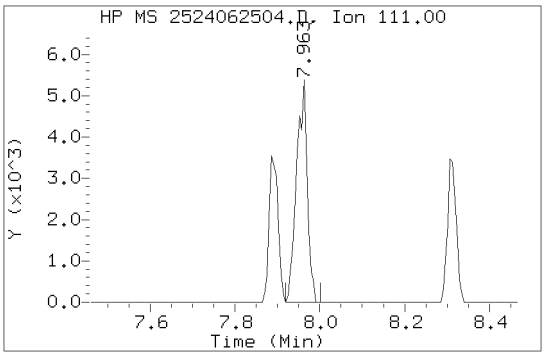

AFTER
MASS
148
AREA
11321
HEIGHT
7492
25-Jun-2024
19:31




BEFORE
MASS
111
AREA
9430
HEIGHT
5383
25-Jun-2024
18:43



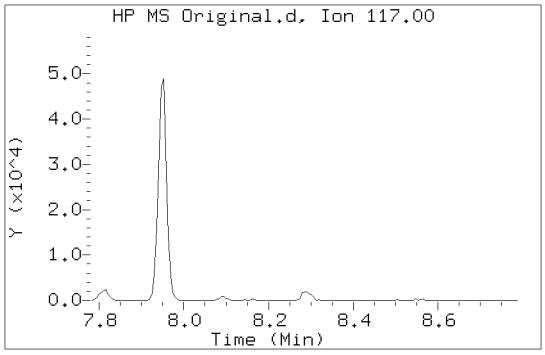

AFTER
MASS
111
AREA
9430
HEIGHT
5383
25-Jun-2024
19:31



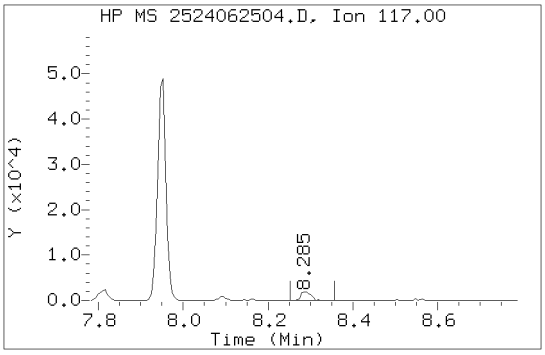

## Hexachloroethane (67-72-1)

Reason Code: IH

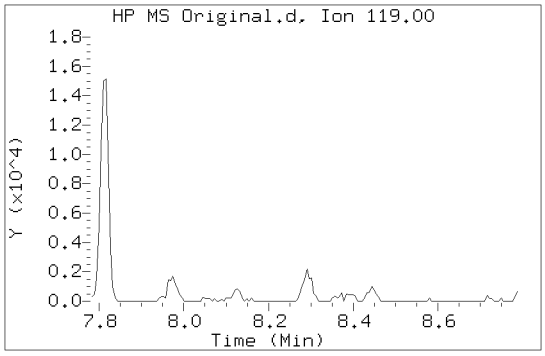
BEFORE
MASS
117
AREA
0
HEIGHT
0
25-Jun-2024
18:43



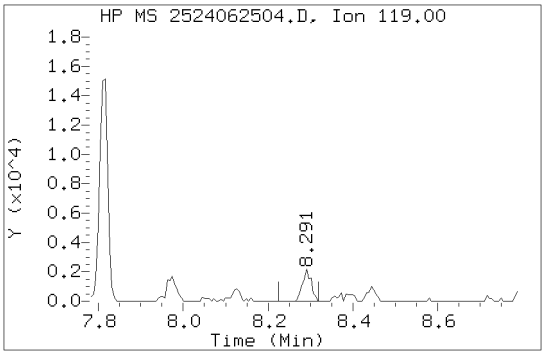

AFTER
MASS
117
AREA
3087
HEIGHT
1807
25-Jun-2024
19:31




BEFORE
MASS
119
AREA
0
HEIGHT
0
25-Jun-2024
18:43




AFTER
MASS
119
AREA
3118
HEIGHT
2195
25-Jun-2024
19:31



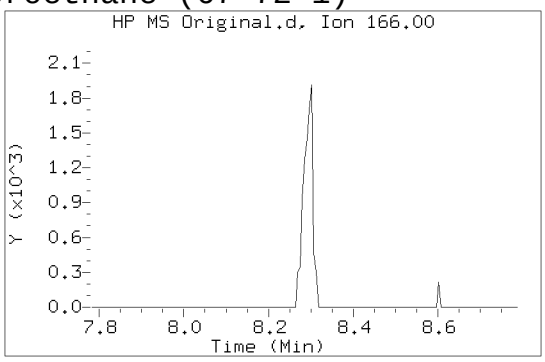
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Inj Date : 25-JUN-2024 11:23
InstruID : ms25.i
LabSampID : 1234

## Hexachloroethane (67-72-1)

Reason Code: IH

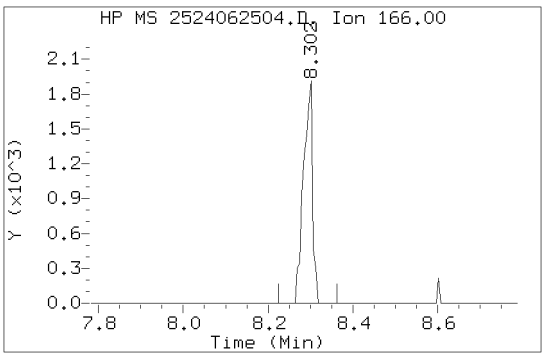
**BEFORE**

MASS
166
AREA
0
HEIGHT
0
25-Jun-2024
18:43




**AFTER**

MASS
166
AREA
2843
HEIGHT
1913
25-Jun-2024
19:31



# UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406250
Inj Date: 25-JUN-2024 11:23
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062505.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062505.D
Lab Smp Id: 1235
Inj Date : 25-JUN-2024 11:44
Operator : ILY Inst ID: ms25.i
Smp Info : 1235;;1;1;2;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\25-8260b09.m
Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.497 | 1.497 | (0.359) | 59688 | 5.00000 | 4.96098 | |
| 2 Chloromethane | 50 | 1.644 | 1.645 | (0.394) | 52986 | 5.00000 | 4.93802 | |
| 3 Vinyl Chloride | 62 | 1.704 | 1.705 | (0.409) | 67532 | 5.00000 | 4.96514 | |
| 4 Bromomethane | 94 | 1.923 | 1.923 | (0.461) | 37472 | 5.00000 | 5.36670 | |
| 5 Chloroethane | 64 | 2.004 | 2.005 | (0.481) | 49249 | 5.00000 | 5.08571 | |
| 6 Pentane | 41 | 2.092 | 2.092 | (0.502) | 50203 | 5.00000 | 4.98935 | |
| 7 Trichlorofluoromethane | 101 | 2.097 | 2.103 | (0.503) | 94521 | 5.00000 | 5.07354 | |
| 8 Dichlorofluoromethane | 67 | 2.124 | 2.125 | (0.509) | 91911 | 5.00000 | 5.33176 | |
| 9 Ethyl Ether | 74 | 2.277 | 2.278 | (0.546) | 26048 | 5.00000 | 4.96900 | |
| 10 1,1-Dichloroethene | 61 | 2.414 | 2.409 | (0.579) | 53755 | 5.00000 | 5.13888 | |
| 11 Freon 113 | 101 | 2.424 | 2.425 | (0.581) | 39179 | 5.00000 | 5.32509 | |
| 12 Carbon Disulfide | 76 | 2.446 | 2.447 | (0.587) | 109252 | 5.00000 | 4.84162 | |
| 13 Iodomethane | 127 | 2.512 | 2.507 | (0.602) | 12856 | 5.00000 | 3.64919 | |
| 14 Acrolein | 56 | 2.599 | 2.600 | (0.623) | 41537 | 25.0000 | 24.6179 | |
| 15 Isopropyl Alcohol | 45 | 2.654 | 2.654 | (0.636) | 13242 | 25.0000 | 21.1377 | |
| 16 3-Chloro-1-propene | 41 | 2.681 | 2.676 | (0.643) | 45996 | 5.00000 | 5.20289 | |
| 17 Methylene Chloride | 84 | 2.741 | 2.741 | (0.657) | 44601 | 5.00000 | 5.21982 | |
| 18 Acetone | 58 | 2.757 | 2.752 | (0.661) | 22973 | 25.0000 | 24.2671 | |
| 19 Methyl acetate | 74 | 2.817 | 2.812 | (0.676) | 9079 | 5.00000 | 4.28588(Q) | |
| 20 trans-1,2-Dichloroethene | 61 | 2.828 | 2.829 | (0.678) | 52215 | 5.00000 | 5.09647 | |
| 21 Hexane | 57 | 2.861 | 2.867 | (0.686) | 86426 | 5.00000 | 4.80758 | |

Data File: 2524062505.D Page 2
Report Date: 25-Jun-2024 19:32

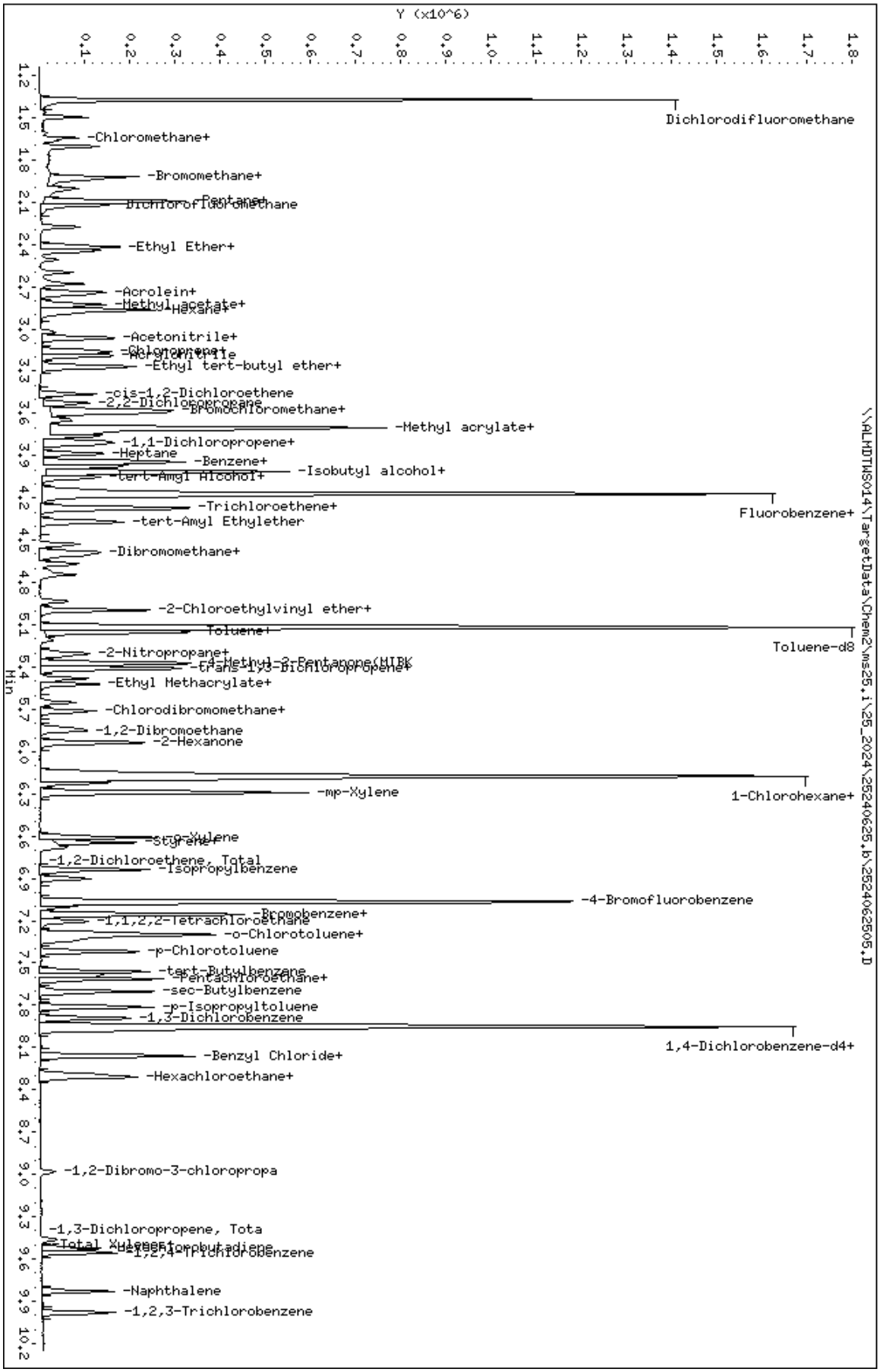
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | 2.872 | 2.872 | (0.689) | 120315 | 5.00000 | 4.78736 | |
| | 23 tert.- Butyl Alcohol | 59 | 2.899 | 2.889 | (0.695) | 21867 | 25.0000 | 23.1385 | |
| | 24 Acetonitrile | 41 | 3.025 | 3.020 | (0.725) | 27036 | 25.0000 | 25.5395 | |
| | 25 Diisopropyl ether | 45 | 3.063 | 3.063 | (0.734) | 116696 | 5.00000 | 5.13219 | |
| | 26 Chloroprene | 53 | 3.156 | 3.156 | (0.757) | 56434 | 5.00000 | 4.89543 | |
| | 27 1,1-Dichloroethane | 63 | 3.167 | 3.167 | (0.759) | 73188 | 5.00000 | 5.24341 | |
| | 28 Acrylonitrile | 53 | 3.194 | 3.194 | (0.766) | 92982 | 25.0000 | 25.5783(M) | MP |
| | 29 Ethyl tert-butyl ether | 59 | 3.265 | 3.265 | (0.783) | 120519 | 5.00000 | 4.99047 | |
| | 30 n-Propanol | 41 | 3.265 | 3.260 | (0.783) | 21478 | 50.0000 | 47.9463(Q) | |
| | 31 Vinyl Acetate | 86 | 3.276 | 3.276 | (0.785) | 9677 | 5.00000 | 4.41305 | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.461 | 3.462 | (0.830) | 53300 | 5.00000 | 5.13080 | |
| | 33 2,2-Dichloropropane | 77 | 3.527 | 3.522 | (0.846) | 56064 | 5.00000 | 5.03959(M) | I |
| | 34 Bromochloromethane | 128 | 3.576 | 3.576 | (0.857) | 23110 | 5.00000 | 5.15866 | |
| | 35 Cyclohexane | 84 | 3.587 | 3.587 | (0.860) | 62260 | 5.00000 | 4.99491 | |
| | 36 Chloroform | 83 | 3.603 | 3.598 | (0.864) | 77923 | 5.00000 | 5.17135 | |
| | 37 Ethyl Acetate | 43 | 3.636 | 3.642 | (0.872) | 42053 | 5.00000 | 4.57672 | |
| | 38 Methyl acrylate | 55 | 3.652 | 3.653 | (0.876) | 40449 | 5.00000 | 4.83542 | |
| | 39 Carbon Tetrachloride | 117 | 3.701 | 3.696 | (0.887) | 45979 | 5.00000 | 4.53007(M) | MP |
| $ | 41 Dibromofluoromethane | 113 | 3.707 | 3.707 | (0.889) | 264311 | 30.0000 | 30.8069 | |
| | 40 Tetrahydrofuran | 42 | 3.696 | 3.696 | (0.886) | 61844 | 25.0000 | 24.1831 | |
| | 42 1,1,1-Trichloroethane | 97 | 3.734 | 3.740 | (0.895) | 58962 | 5.00000 | 5.02729 | |
| | 43 2-Butanone | 72 | 3.761 | 3.767 | (0.902) | 30643 | 25.0000 | 24.7867(M) | MP |
| | 44 1,1-Dichloropropene | 75 | 3.800 | 3.800 | (0.911) | 57187 | 5.00000 | 5.15476 | |
| | 45 1-Chlorobutane | 41 | 3.816 | 3.822 | (0.915) | 35980 | 5.00000 | 5.04323(M) | I |
| | 46 Heptane | 71 | 3.887 | 3.887 | (0.932) | 33214 | 5.00000 | 5.15312 | |
| | 47 Benzene | 78 | 3.941 | 3.942 | (0.945) | 171818 | 5.00000 | 5.03878 | |
| | 48 Propionitrile | 54 | 3.941 | 3.942 | (0.945) | 33201 | 25.0000 | 24.1189(M) | I |
| | 49 Methacrylonitrile | 67 | 3.952 | 3.953 | (0.948) | 19135 | 5.00000 | 4.63708(Q) | |
| | 50 tert-Amyl methyl ether | 73 | 3.974 | 3.975 | (0.953) | 112448 | 5.00000 | 4.82365 | |
| | 54 Isobutyl alcohol | 42 | 3.985 | 3.980 | (0.956) | 7621 | 50.0000 | 40.0273(M) | MP |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.018 | 4.013 | (0.963) | 286783 | 30.0000 | 31.7090(M) | MP |
| | 52 1,2-Dichloroethane | 62 | 4.051 | 4.056 | (0.971) | 53935 | 5.00000 | 5.03156(M) | I |
| | 53 tert-Amyl Alcohol | 59 | 4.056 | 4.062 | (0.973) | 15711 | 25.0000 | 21.6680 | |
| * | 55 Fluorobenzene | 96 | 4.171 | 4.171 | (1.000) | 1087359 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.176 | 4.171 | (1.001) | 125872 | 5.00000 | 4.65034 | |
| | 57 Trichloroethene | 95 | 4.269 | 4.269 | (1.024) | 41892 | 5.00000 | 4.85420 | |
| | 58 Methyl cyclohexane | 83 | 4.274 | 4.275 | (0.692) | 69627 | 5.00000 | 5.02555 | |
| | 59 tert-Amyl Ethylether | 59 | 4.367 | 4.373 | (1.047) | 87789 | 5.00000 | 4.55944 | |
| | 60 Dibromomethane | 93 | 4.525 | 4.526 | (1.085) | 26239 | 5.00000 | 4.80949 | |
| | 61 1,2-Dichloropropane | 63 | 4.585 | 4.586 | (1.099) | 40983 | 5.00000 | 4.99373 | |
| | 62 Bromodichloromethane | 83 | 4.607 | 4.607 | (1.105) | 47880 | 5.00000 | 4.49673 | |
| | 63 Methyl methacrylate | 41 | 4.667 | 4.662 | (1.119) | 31161 | 5.00000 | 4.79757(M) | I |
| | 64 1,4-Dioxane | 88 | 4.716 | 4.722 | (1.131) | 16306 | 125.000 | 128.349 | |
| | 65 2-Chloroethylvinyl ether | 63 | 4.934 | 4.935 | (1.183) | 23423 | 5.00000 | 4.24126 | |
| | 66 cis-1,3-Dichloropropene | 75 | 4.994 | 4.995 | (0.809) | 57636 | 5.00000 | 4.24765 | |
| | 67 Octane | 85 | 5.000 | 5.000 | (0.810) | 25331 | 5.00000 | 4.82204 | |
| $ | 68 Toluene-d8 | 98 | 5.115 | 5.120 | (0.829) | 1052255 | 30.0000 | 31.1164 | |
| | 69 Toluene | 92 | 5.153 | 5.153 | (0.835) | 103607 | 5.00000 | 4.83383 | |
| | 70 Chloroacetonitrile | 75 | 5.213 | 5.208 | (0.844) | 11858 | 25.0000 | 22.1928 | |
| | 71 2-Nitropropane | 41 | 5.300 | 5.300 | (0.859) | 42330 | 25.0000 | 19.7446 | |
| | 72 1,1-Dichloro-2-Propanone | 63 | 5.316 | 5.317 | (0.861) | 4269 | 25.0000 | 20.5794(Q) | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.371 | 5.371 | (0.870) | 187763 | 25.0000 | 23.1030 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.409 | 5.410 | (0.876) | 54063 | 5.00000 | 4.31303 | |
| | 74 Tetrachloroethene | 164 | 5.415 | 5.410 | (0.877) | 39410 | 5.00000 | 5.04948 | |

Data File: 2524062505.D Page 3
Report Date: 25-Jun-2024 19:32

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl Methacrylate | 69 | 5.486 | 5.481 | (0.889) | 51147 | 5.00000 | 4.24986 | |
| | 77 1,1,2-Trichloroethane | 83 | 5.518 | 5.524 | (0.894) | 33140 | 5.00000 | 5.03234 | |
| | 78 Chlorodibromomethane | 129 | 5.649 | 5.650 | (0.915) | 36996 | 5.00000 | 4.30237 | |
| | 79 1,3-Dichloropropane | 76 | 5.715 | 5.710 | (0.926) | 64110 | 5.00000 | 4.92726 | |
| | 80 1,2-Dibromoethane | 107 | 5.829 | 5.830 | (0.944) | 39025 | 5.00000 | 4.66538 | |
| | 81 2-Hexanone | 43 | 5.933 | 5.933 | (0.961) | 125367 | 25.0000 | 22.6028 | |
| | 82 1-Chlorohexane | 91 | 6.140 | 6.146 | (0.995) | 57356 | 5.00000 | 5.08663 | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.174 | (1.000) | 427126 | 30.0000 | | |
| | 84 Chlorobenzene | 112 | 6.184 | 6.184 | (1.002) | 109743 | 5.00000 | 5.02430 | |
| | 85 Ethylbenzene | 106 | 6.189 | 6.190 | (1.003) | 58271 | 5.00000 | 4.44077 | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | 6.222 | 6.223 | (1.008) | 34773 | 5.00000 | 4.50754 | |
| | 87 mp-Xylene | 106 | 6.288 | 6.288 | (1.019) | 154227 | 10.0000 | 9.45903 | |
| | 88 o-Xylene | 106 | 6.610 | 6.610 | (1.071) | 65518 | 5.00000 | 4.50743 | |
| | 89 Styrene | 104 | 6.648 | 6.648 | (0.836) | 91709 | 5.00000 | 4.30376(M) | MP |
| | 90 Bromoform | 173 | 6.681 | 6.686 | (0.840) | 22861 | 5.00000 | 3.89465 | |
| | 91 Isopropylbenzene | 105 | 6.839 | 6.839 | (0.860) | 150199 | 5.00000 | 4.86385 | |
| M | 100 1,2-Dichloroethene, Total | 61 | | | | 105515 | 10.0000 | 10.2273 | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 325457 | 30.0000 | 30.6043 | |
| | 93 Bromobenzene | 156 | 7.155 | 7.156 | (0.900) | 45273 | 5.00000 | 4.98138 | |
| | 94 n-Propylbenzene | 120 | 7.155 | 7.156 | (0.900) | 44738 | 5.00000 | 4.81386 | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | 7.204 | 7.205 | (0.906) | 44390 | 5.00000 | 4.91408 | |
| | 96 o-Chlorotoluene | 91 | 7.292 | 7.292 | (0.917) | 121483 | 5.00000 | 4.96837 | |
| | 97 1,3,5-Trimethylbenzene | 105 | 7.303 | 7.303 | (0.918) | 125150 | 5.00000 | 4.83861 | |
| | 98 1,2,3-Trichloropropane | 110 | 7.324 | 7.325 | (0.921) | 14852 | 5.00000 | 5.09769 | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | 7.341 | 7.341 | (0.923) | 11562 | 5.00000 | 4.43705(M) | MP |
| | 101 p-Chlorotoluene | 91 | 7.417 | 7.418 | (0.933) | 111173 | 5.00000 | 5.01963 | |
| | 102 tert-Butylbenzene | 134 | 7.559 | 7.559 | (0.951) | 32108 | 5.00000 | 5.19039 | |
| | 103 Pentachloroethane | 117 | 7.586 | 7.581 | (0.954) | 25931 | 5.00000 | 4.44207(M) | MP |
| | 104 1,2,4-Trimethylbenzene | 105 | 7.614 | 7.614 | (0.957) | 132392 | 5.00000 | 4.69630(M) | I |
| | 105 sec-Butylbenzene | 105 | 7.701 | 7.707 | (0.968) | 163354 | 5.00000 | 5.11007 | |
| | 106 p-Isopropyltoluene | 134 | 7.810 | 7.816 | (0.982) | 37381 | 5.00000 | 5.10636 | |
| | 107 1,3-Dichlorobenzene | 146 | 7.892 | 7.892 | (0.992) | 77113 | 5.00000 | 5.03629 | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 384401 | 30.0000 | | |
| | 109 1,4-Dichlorobenzene | 146 | 7.963 | 7.963 | (1.001) | 77858 | 5.00000 | 4.87835 | |
| | 110 Benzyl Chloride | 126 | 8.159 | 8.160 | (1.026) | 12513 | 5.00000 | 3.70991(Q) | |
| | 111 n-Butylbenzene | 134 | 8.159 | 8.160 | (1.026) | 31794 | 5.00000 | 4.64753(Q) | |
| | 112 Hexachloroethane | 117 | 8.290 | 8.285 | (1.043) | 20694 | 5.00000 | 4.13218 | |
| | 113 1,2-Dichlorobenzene | 146 | 8.312 | 8.311 | (1.045) | 71870 | 5.00000 | 4.92763 | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | 8.983 | 8.984 | (1.130) | 6452 | 5.00000 | 4.11789 | |
| | 115 Nitrobenzene | 77 | 9.463 | 9.464 | (1.190) | 15593 | 50.0000 | 31.0878 | |
| | 116 Hexachlorobutadiene | 225 | 9.523 | 9.524 | (1.198) | 21249 | 5.00000 | 4.63313 | |
| M | 120 1,3-Dichloropropene, Total | 75 | | | | 111699 | 10.0000 | 8.56068 | |
| | 117 1,2,4-Trichlorobenzene | 180 | 9.556 | 9.556 | (1.202) | 44395 | 5.00000 | 4.59634 | |
| M | 121 Total Xylenes | 106 | | | | 219745 | 15.0000 | 13.9665 | |
| | 118 Naphthalene | 128 | 9.829 | 9.829 | (1.236) | 109460 | 5.00000 | 4.15104 | |
| | 119 1,2,3-Trichlorobenzene | 180 | 9.982 | 9.982 | (1.255) | 45198 | 5.00000 | 4.43252 | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

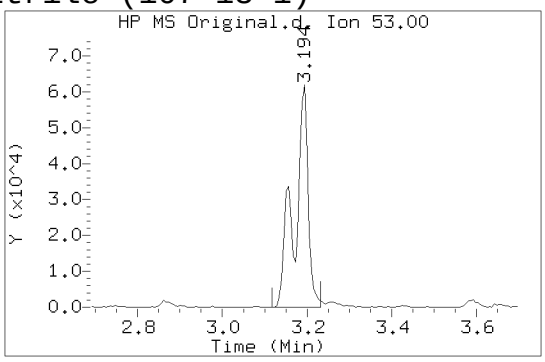

Y (x10^6)
Min
Dichlorodifluoromethane
-Chloromethane+
-Bromomethane+
Dichlorofluoromethane
-Ethyl Ether+
-Acrolein+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Methyl acrylate+
-1,1-Dichloropropene+
-Heptane
-Benzene+
-Isobutyl alcohol+
-tert-Amyl Alcohol+
-Trichloroethene+
Fluorobenzene+
-tert-Amyl Ethylether
-Dibromomethane+
-2-Chloroethylvinyl ether+
Toluene+
Toluene-d8
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate+
-Chlorodibromomethane+
-1,2-Dibromoethane
-2-Hexanone
1-Chlorohexane+
-mp-Xylene
-o-Xylene
-Styrene+
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-1,1,2,2-Tetrachloroethane
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene
-Pentachloroethane+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Total Xylenes
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
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Date : 25-JUN-2024 11:44
Client ID:
Sample Info: 1235;1;1;2;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: ILY
Column diameter: 0.25
Page 1

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062505.D
Inj Date : 25-JUN-2024 11:44
InstruID : ms25.i
LabSampID : 1235

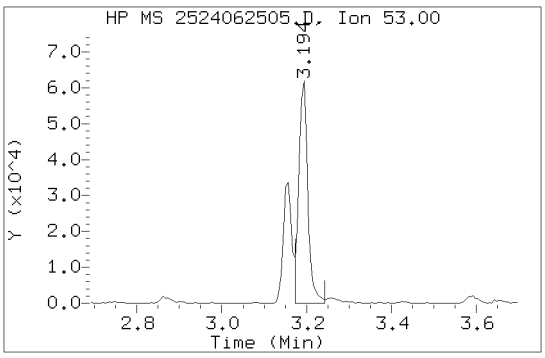
## Acrylonitrile (107-13-1)

Reason Code: MP

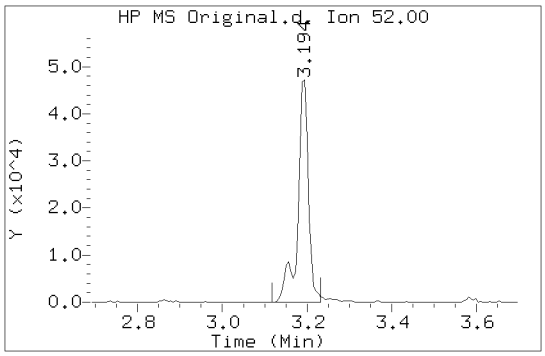
BEFORE
MASS
53
AREA
137932
HEIGHT
61904
25-Jun-2024
18:35



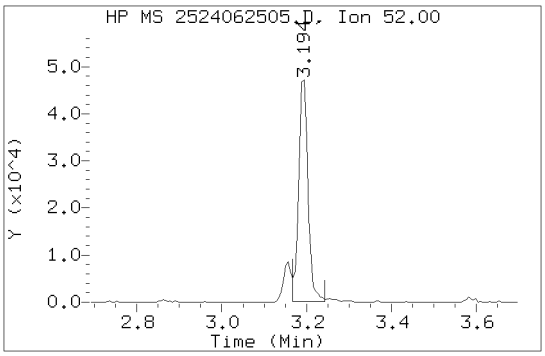

AFTER
MASS
53
AREA
92982
HEIGHT
61874
25-Jun-2024
19:31



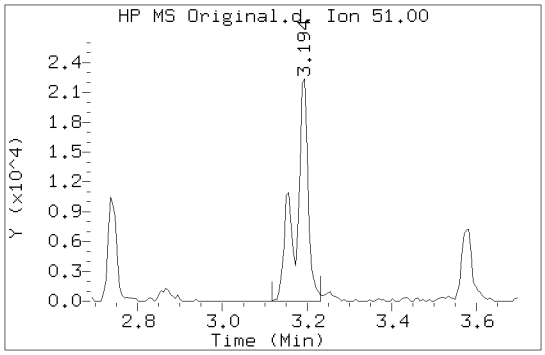

BEFORE
MASS
52
AREA
83296
HEIGHT
47192
25-Jun-2024
18:35



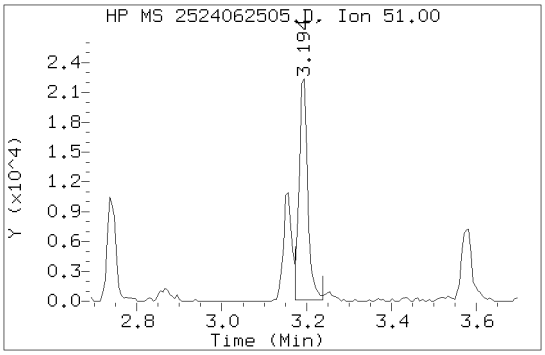

AFTER
MASS
52
AREA
72577
HEIGHT
46993
25-Jun-2024
19:31




BEFORE
MASS
51
AREA
47075
HEIGHT
22368
25-Jun-2024
18:35



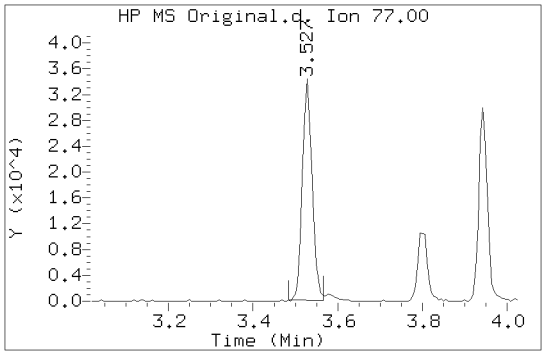

AFTER
MASS
51
AREA
32061
HEIGHT
22255
25-Jun-2024
19:31



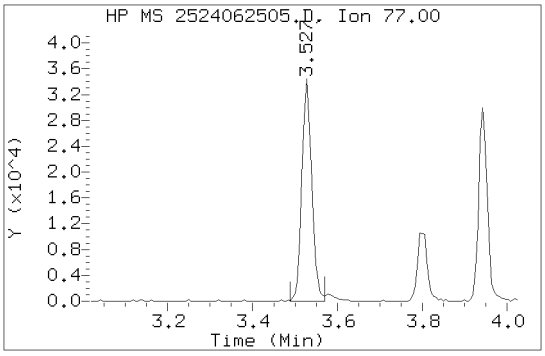

## 2,2-Dichloropropane (594-20-7)

Reason Code: I

BEFORE
MASS
77
AREA
55210
HEIGHT
34304
25-Jun-2024
18:35




AFTER
MASS
77
AREA
56064
HEIGHT
34424
25-Jun-2024
19:31

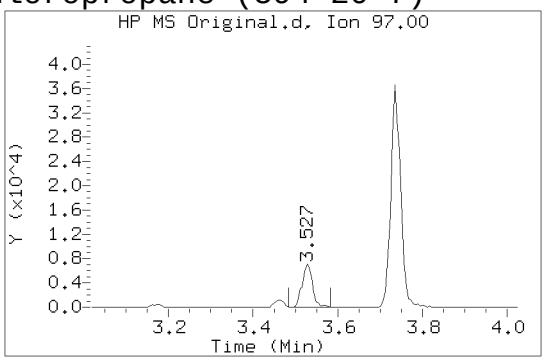


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Inj Date : 25-JUN-2024 11:44
InstruID : ms25.i
LabSampID : 1235

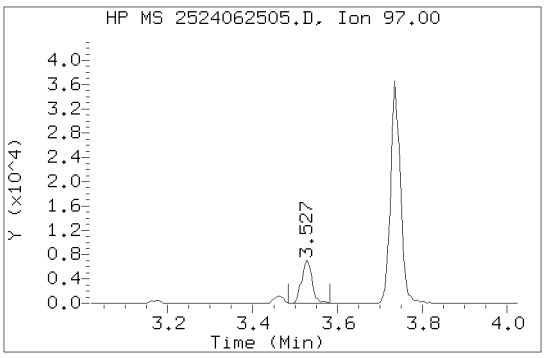
## 2,2-Dichloropropane (594-20-7)

Reason Code: I

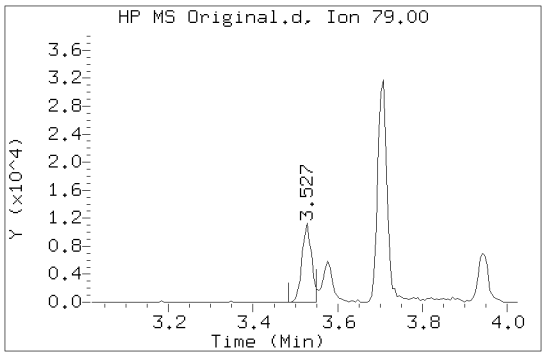
BEFORE
MASS
97
AREA
12096
HEIGHT
7107
25-Jun-2024
18:35



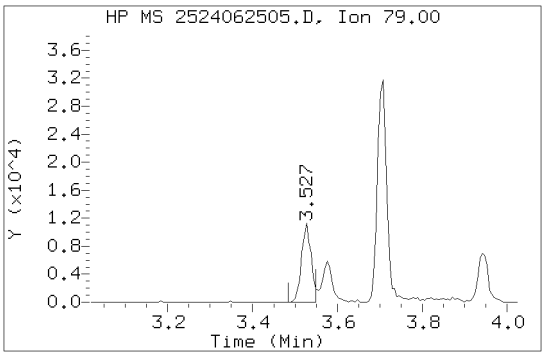

AFTER
MASS
97
AREA
12096
HEIGHT
7107
25-Jun-2024
19:31




BEFORE
MASS
79
AREA
17831
HEIGHT
11306
25-Jun-2024
18:35



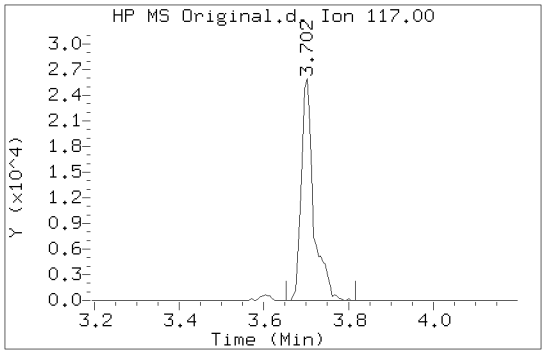

AFTER
MASS
79
AREA
17831
HEIGHT
11306
25-Jun-2024
19:31



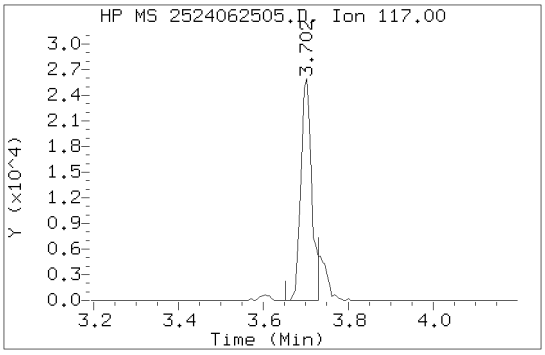

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

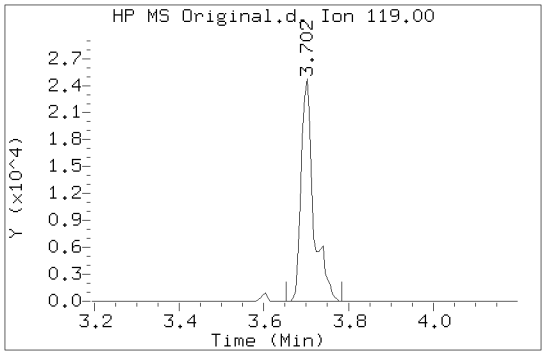
BEFORE
MASS
117
AREA
52774
HEIGHT
25936
25-Jun-2024
18:35



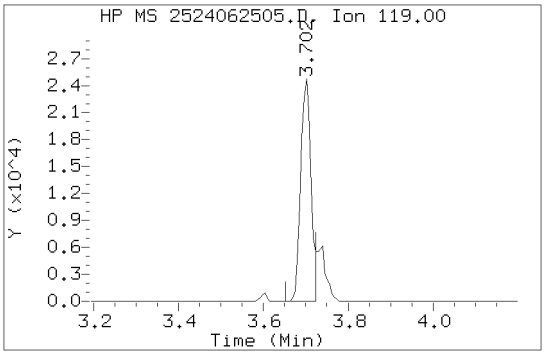

AFTER
MASS
117
AREA
45979
HEIGHT
25936
25-Jun-2024
19:31




BEFORE
MASS
119
AREA
50751
HEIGHT
24744
25-Jun-2024
18:35




AFTER
MASS
119
AREA
42128
HEIGHT
24744
25-Jun-2024
19:31

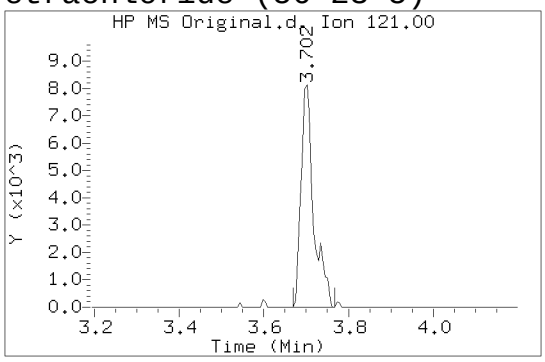


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InstruID : ms25.i
LabSampID : 1235

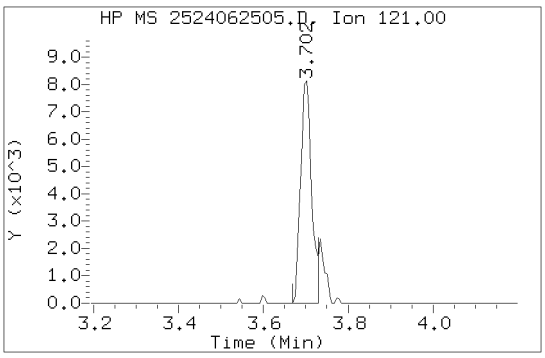
## Carbon Tetrachloride (56-23-5)

Reason Code: MP

**BEFORE**
MASS
121
AREA
16874
HEIGHT
8135
25-Jun-2024
18:35



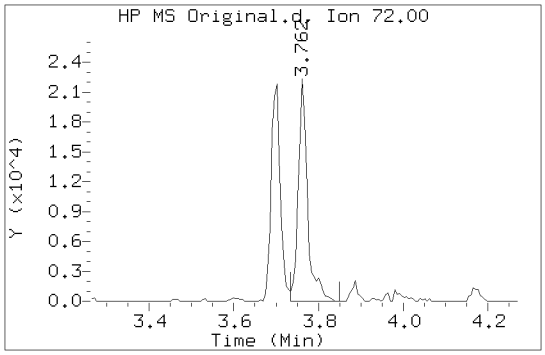

**AFTER**
MASS
121
AREA
14785
HEIGHT
8135
25-Jun-2024
19:31



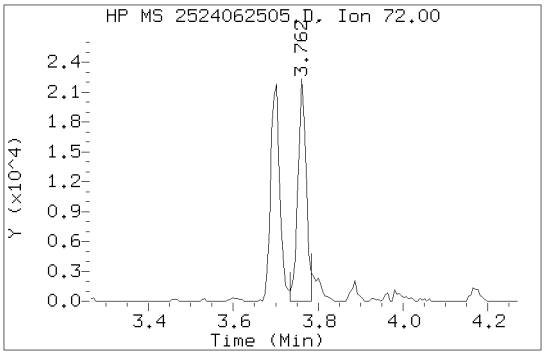

## 2-Butanone (78-93-3)

Reason Code: MP

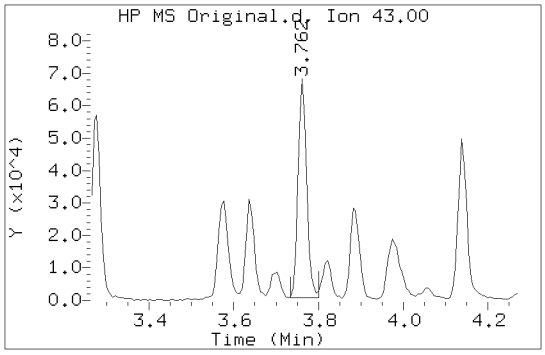
**BEFORE**
MASS
72
AREA
34311
HEIGHT
22336
25-Jun-2024
18:35



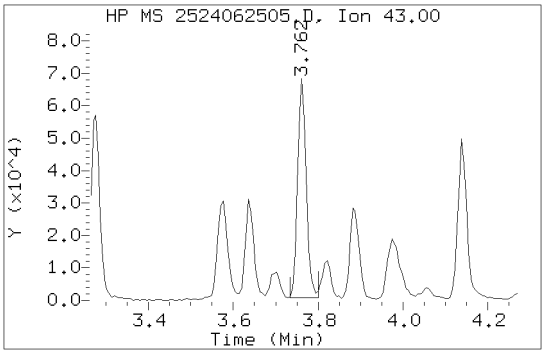

**AFTER**
MASS
72
AREA
30643
HEIGHT
22336
25-Jun-2024
19:31




**BEFORE**
MASS
43
AREA
95157
HEIGHT
67435
25-Jun-2024
18:35



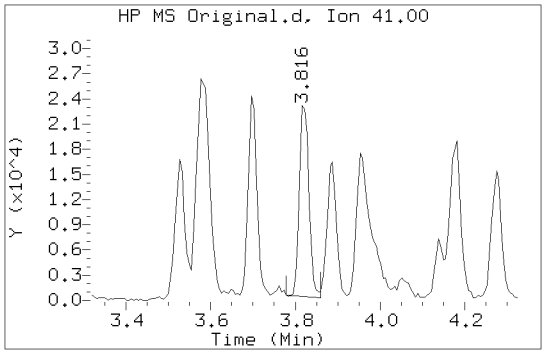

**AFTER**
MASS
43
AREA
95157
HEIGHT
67435
25-Jun-2024
19:31



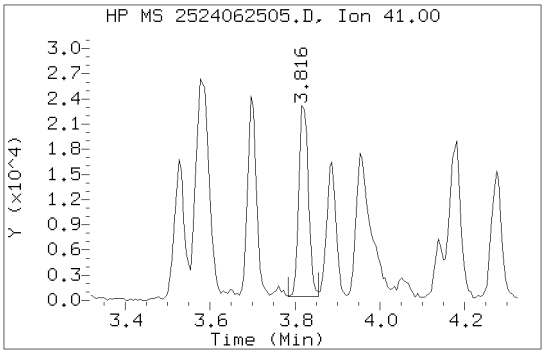

## 1-Chlorobutane (109-69-3)

Reason Code: I

**BEFORE**
MASS
41
AREA
36163
HEIGHT
22753
25-Jun-2024
18:35




**AFTER**
MASS
41
AREA
35980
HEIGHT
22774
25-Jun-2024
19:31

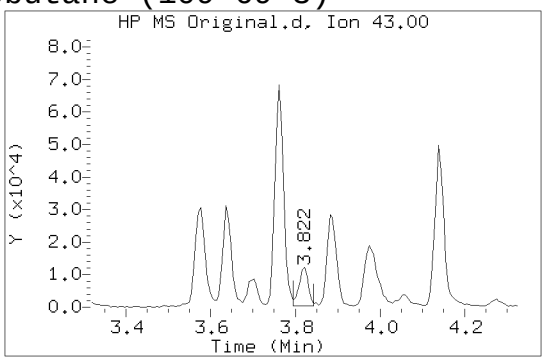


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InstruID : ms25.i
LabSampID : 1235

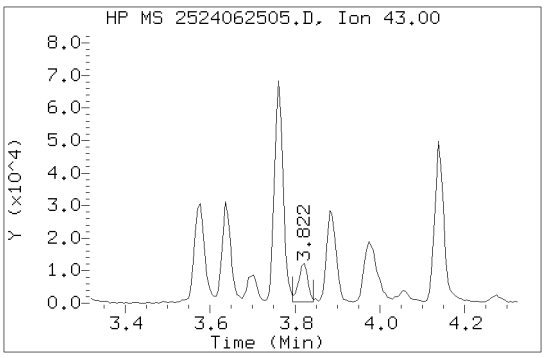
## 1-Chlorobutane (109-69-3)

Reason Code: I

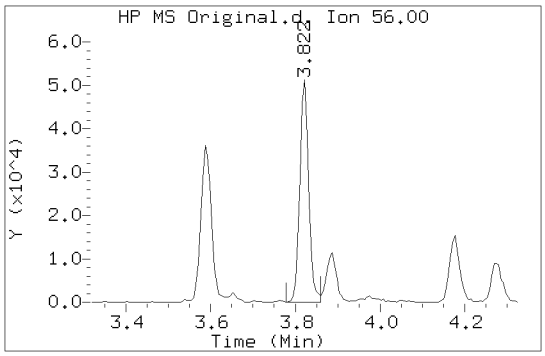
**BEFORE**
MASS
43
AREA
18123
HEIGHT
11751
25-Jun-2024
18:35



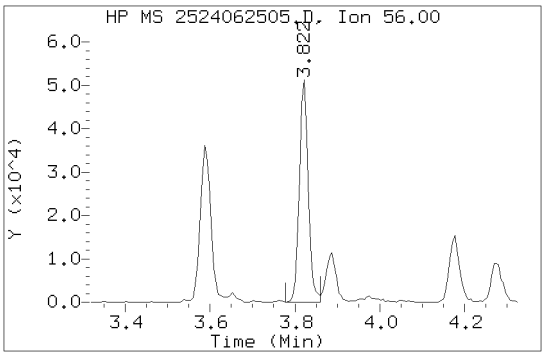

**AFTER**
MASS
43
AREA
18123
HEIGHT
11751
25-Jun-2024
19:31




**BEFORE**
MASS
56
AREA
74900
HEIGHT
51272
25-Jun-2024
18:35



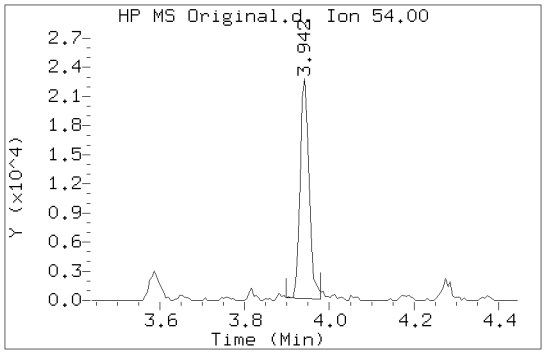

**AFTER**
MASS
56
AREA
74900
HEIGHT
51272
25-Jun-2024
19:31



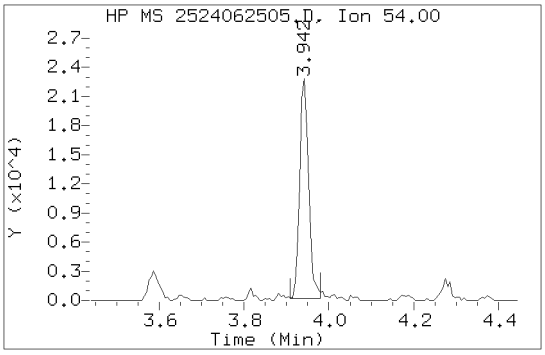

## Propionitrile (107-12-0)

Reason Code: I

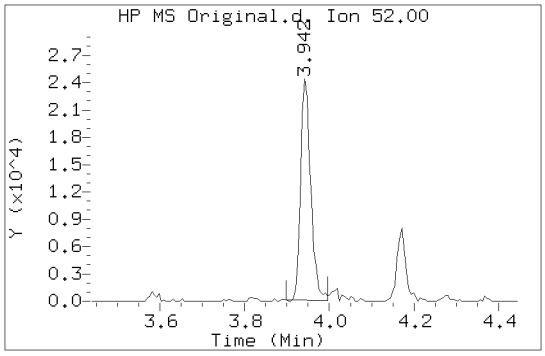
**BEFORE**
MASS
54
AREA
33360
HEIGHT
22634
25-Jun-2024
18:35



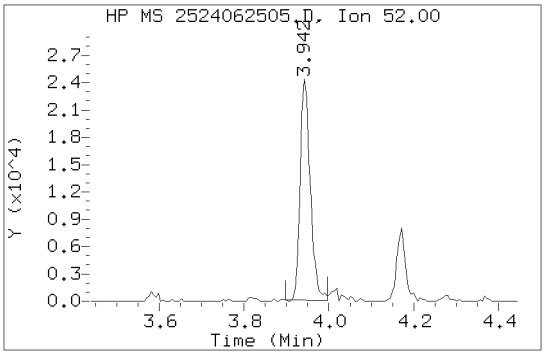

**AFTER**
MASS
54
AREA
33201
HEIGHT
22616
25-Jun-2024
19:31




**BEFORE**
MASS
52
AREA
40274
HEIGHT
24303
25-Jun-2024
18:35




**AFTER**
MASS
52
AREA
40274
HEIGHT
24303
25-Jun-2024
19:31

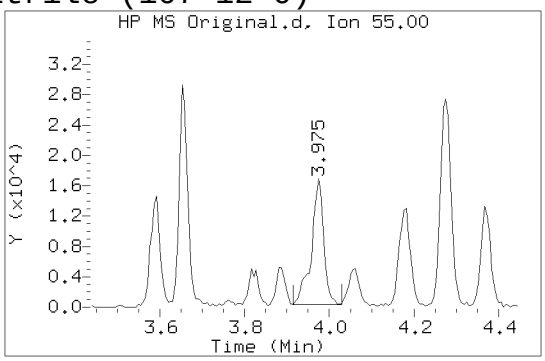


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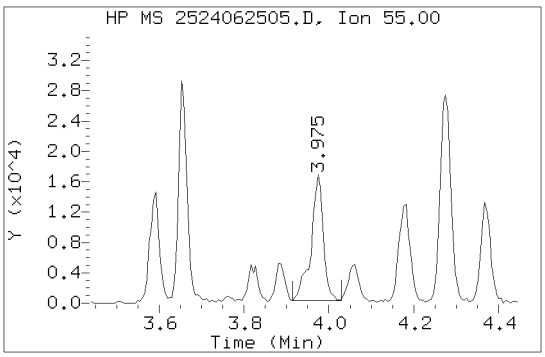
## Propionitrile (107-12-0)

Reason Code: I

BEFORE
MASS
55
AREA
33579
HEIGHT
16614
25-Jun-2024
18:35



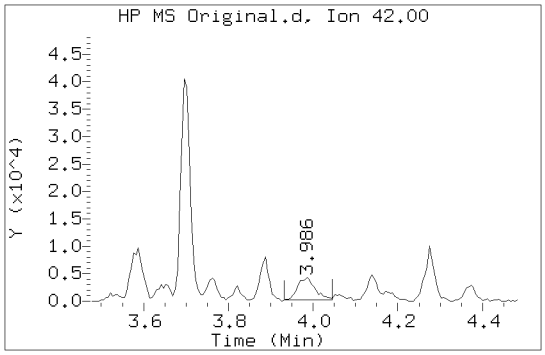

AFTER
MASS
55
AREA
33579
HEIGHT
16614
25-Jun-2024
19:31



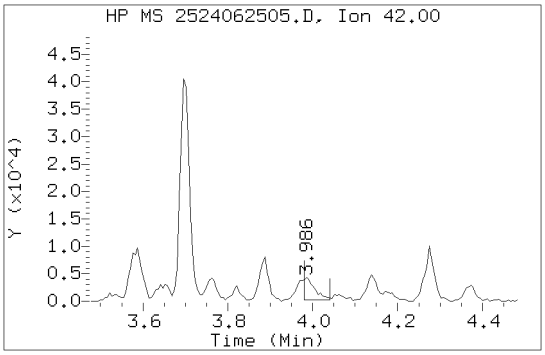

## Isobutyl alcohol (78-83-1)

Reason Code: MP

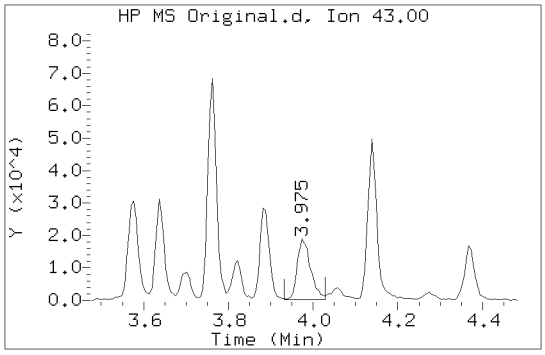
BEFORE
MASS
42
AREA
12012
HEIGHT
4113
25-Jun-2024
18:35



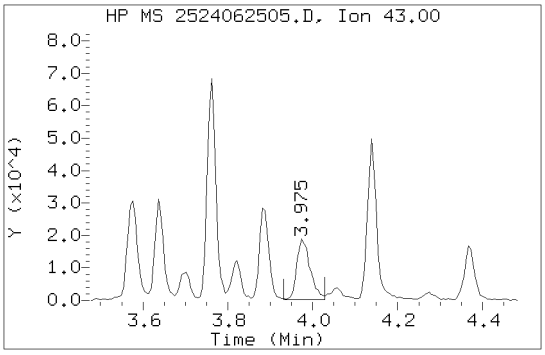

AFTER
MASS
42
AREA
7621
HEIGHT
4107
25-Jun-2024
19:31



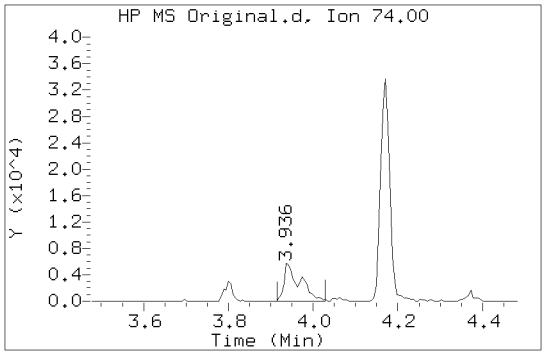

BEFORE
MASS
43
AREA
41216
HEIGHT
18776
25-Jun-2024
18:35



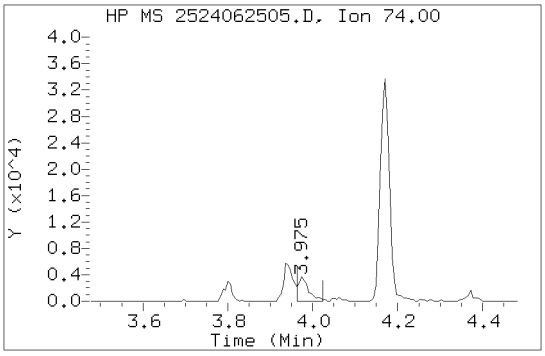

AFTER
MASS
43
AREA
41216
HEIGHT
18776
25-Jun-2024
19:31




BEFORE
MASS
74
AREA
15051
HEIGHT
5773
25-Jun-2024
18:35




AFTER
MASS
74
AREA
6220
HEIGHT
3685
25-Jun-2024
19:31

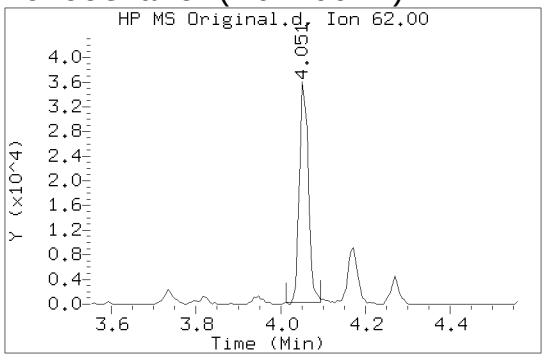


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Inj Date : 25-JUN-2024 11:44
InstruID : ms25.i
LabSampID : 1235

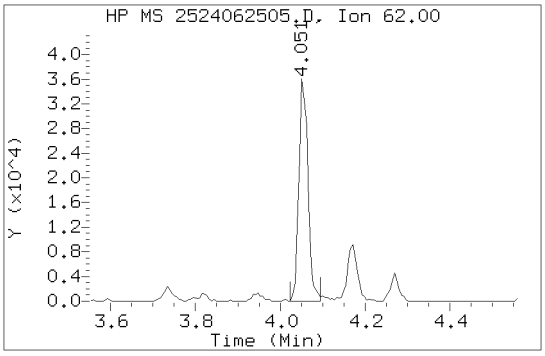
## 1,2-Dichloroethane (107-06-2)

Reason Code: I

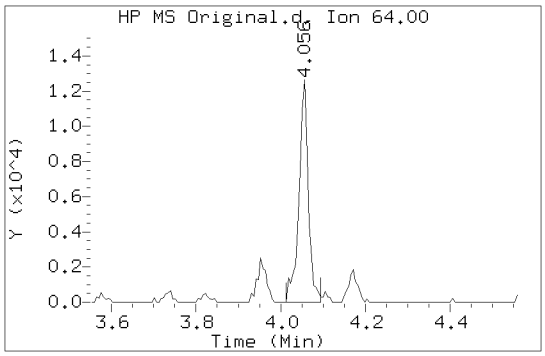
BEFORE
MASS
62
AREA
52620
HEIGHT
35766
25-Jun-2024
18:35



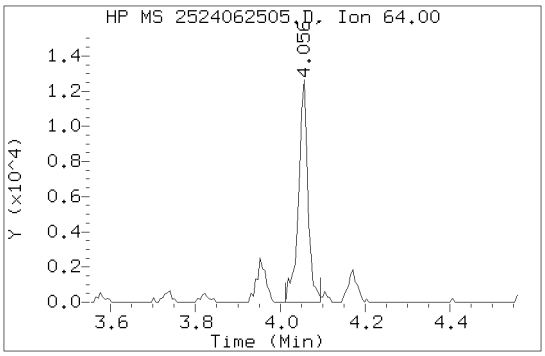

AFTER
MASS
62
AREA
53935
HEIGHT
36034
25-Jun-2024
19:31



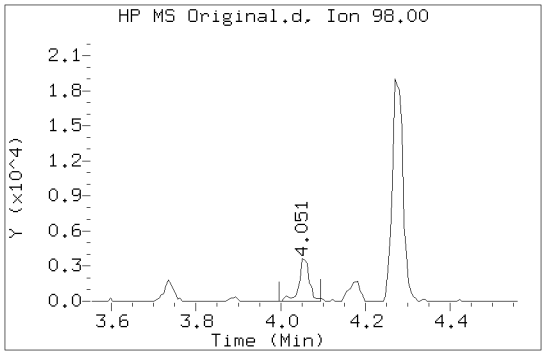

BEFORE
MASS
64
AREA
19445
HEIGHT
12637
25-Jun-2024
18:35



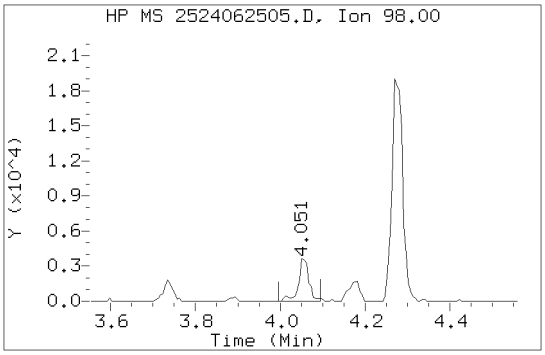

AFTER
MASS
64
AREA
19445
HEIGHT
12637
25-Jun-2024
19:31




BEFORE
MASS
98
AREA
6242
HEIGHT
3640
25-Jun-2024
18:35



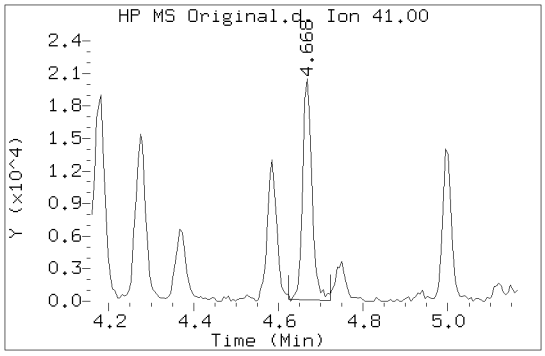

AFTER
MASS
98
AREA
6242
HEIGHT
3640
25-Jun-2024
19:31



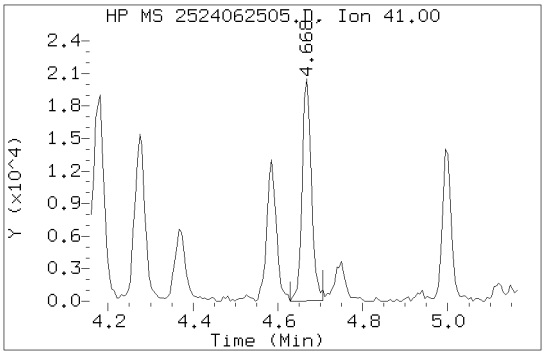

## Methyl methacrylate (80-62-6)

Reason Code: I

BEFORE
MASS
41
AREA
31353
HEIGHT
20381
25-Jun-2024
18:35




AFTER
MASS
41
AREA
31161
HEIGHT
20475
25-Jun-2024
19:31

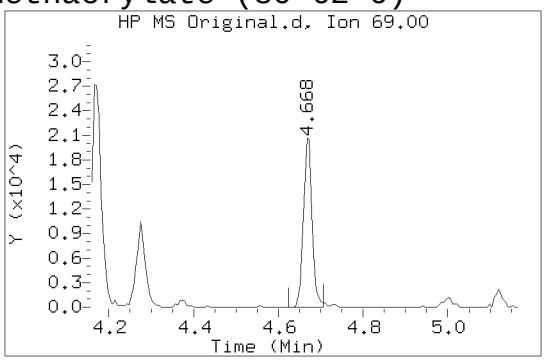


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Inj Date : 25-JUN-2024 11:44
InstruID : ms25.i
LabSampID : 1235

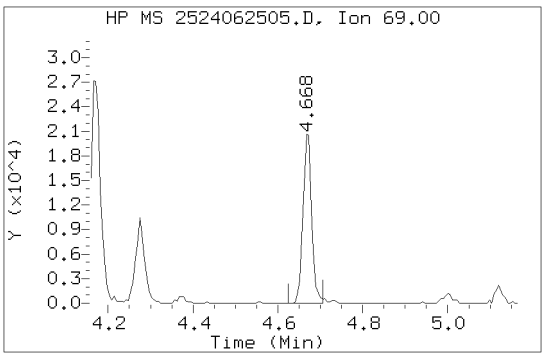
## Methyl methacrylate (80-62-6)

Reason Code: I

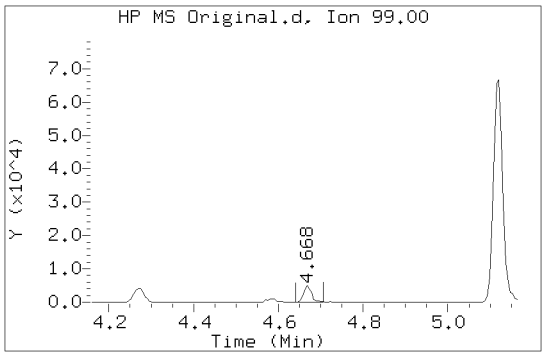
BEFORE
MASS
69
AREA
29450
HEIGHT
20640
25-Jun-2024
18:35



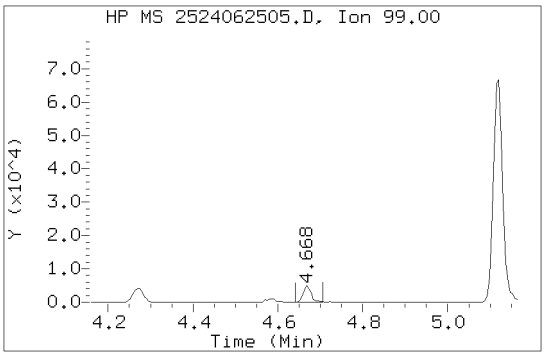

AFTER
MASS
69
AREA
29450
HEIGHT
20640
25-Jun-2024
19:31




BEFORE
MASS
99
AREA
6379
HEIGHT
4970
25-Jun-2024
18:35



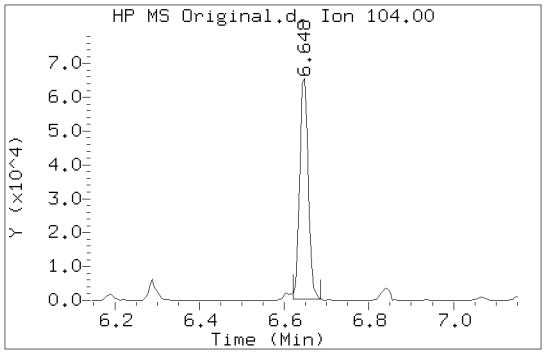

AFTER
MASS
99
AREA
6379
HEIGHT
4970
25-Jun-2024
19:31



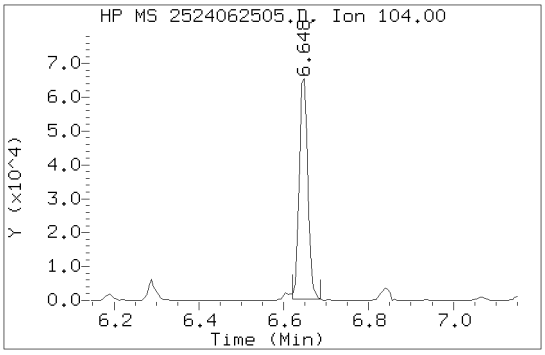

## Styrene (100-42-5)

Reason Code: MP

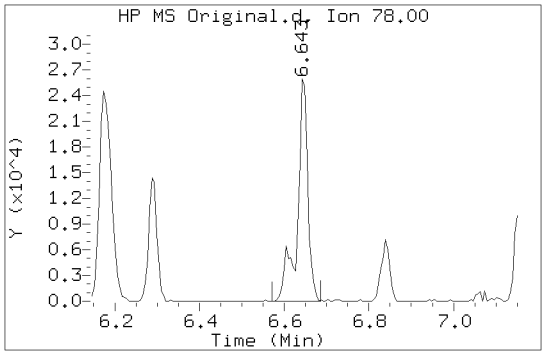
BEFORE
MASS
104
AREA
91709
HEIGHT
65019
25-Jun-2024
18:35



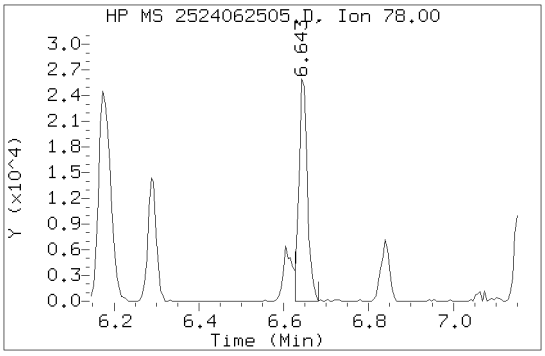

AFTER
MASS
104
AREA
91709
HEIGHT
65019
25-Jun-2024
19:31




BEFORE
MASS
78
AREA
45089
HEIGHT
25968
25-Jun-2024
18:35




AFTER
MASS
78
AREA
36230
HEIGHT
25938
25-Jun-2024
19:31

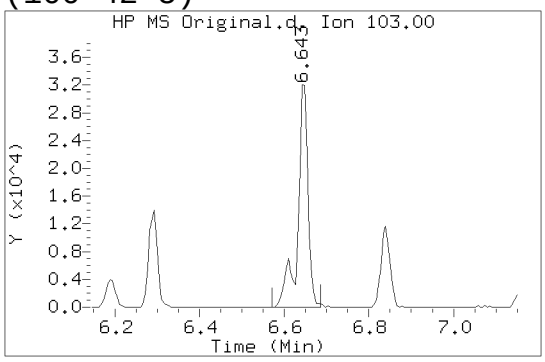


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Inj Date : 25-JUN-2024 11:44
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LabSampID : 1235

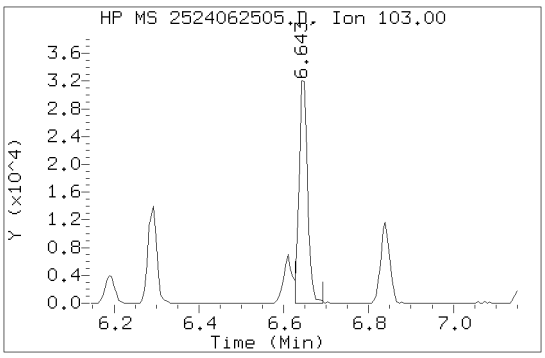
## Styrene (100-42-5)

Reason Code: MP

BEFORE
MASS
103
AREA
54183
HEIGHT
32016
25-Jun-2024
18:35



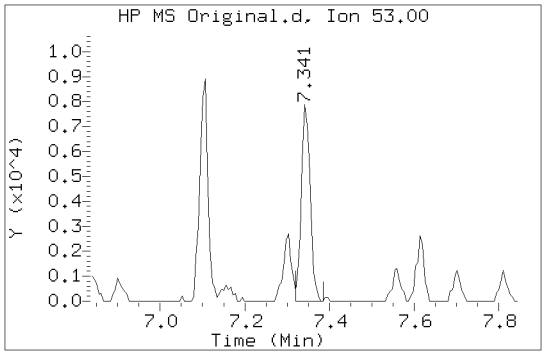

AFTER
MASS
103
AREA
44948
HEIGHT
31986
25-Jun-2024
19:31



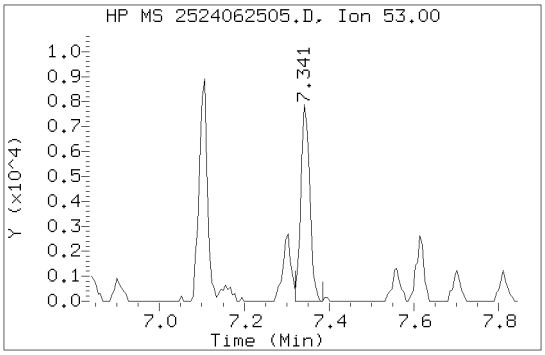

## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

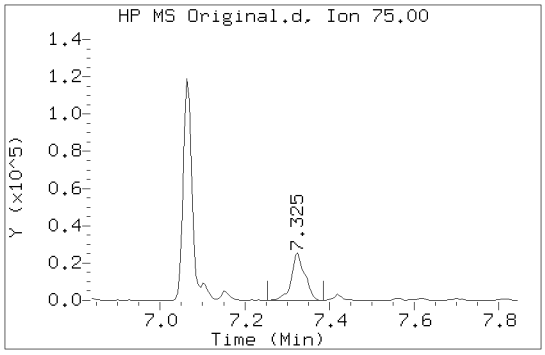
BEFORE
MASS
53
AREA
11562
HEIGHT
7888
25-Jun-2024
18:35



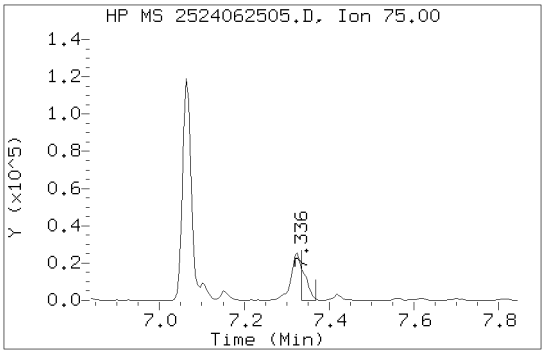

AFTER
MASS
53
AREA
11562
HEIGHT
7888
25-Jun-2024
19:31



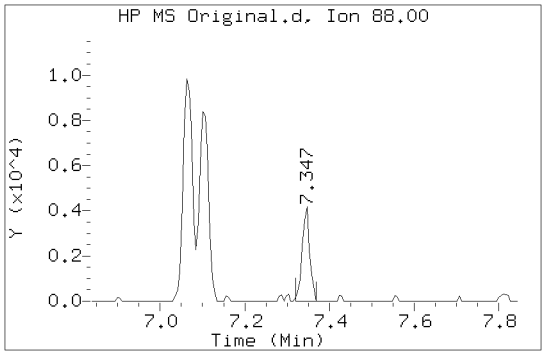

BEFORE
MASS
75
AREA
55932
HEIGHT
25472
25-Jun-2024
18:35



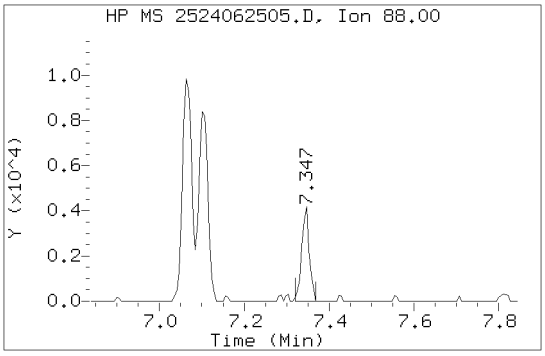

AFTER
MASS
75
AREA
18172
HEIGHT
16543
25-Jun-2024
19:31




BEFORE
MASS
88
AREA
5192
HEIGHT
4177
25-Jun-2024
18:35




AFTER
MASS
88
AREA
5192
HEIGHT
4177
25-Jun-2024
19:31

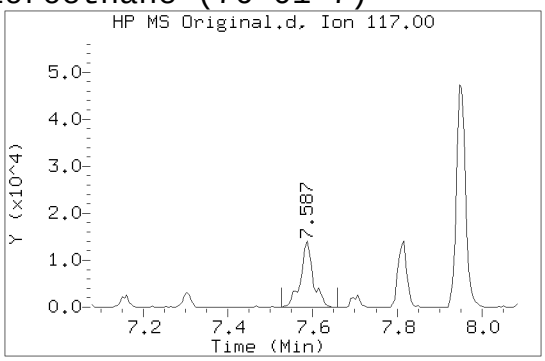


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InstruID : ms25.i
LabSampID : 1235

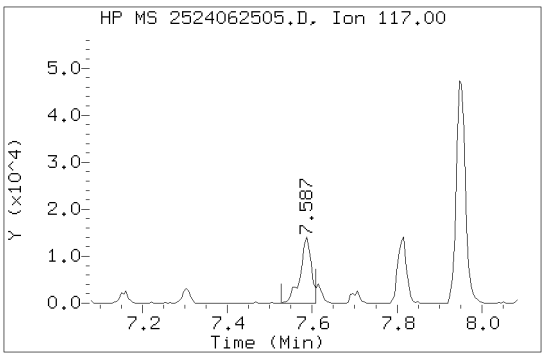
## Pentachloroethane (76-01-7)

Reason Code: MP

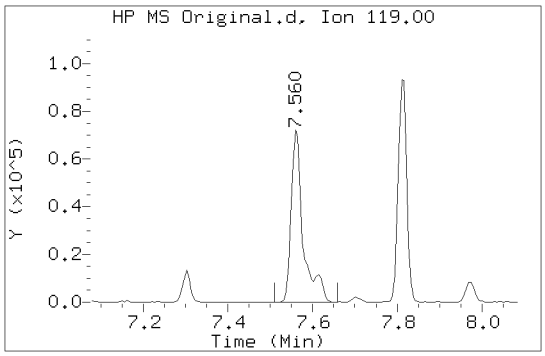
BEFORE
MASS
117
AREA
29258
HEIGHT
14119
25-Jun-2024
18:35



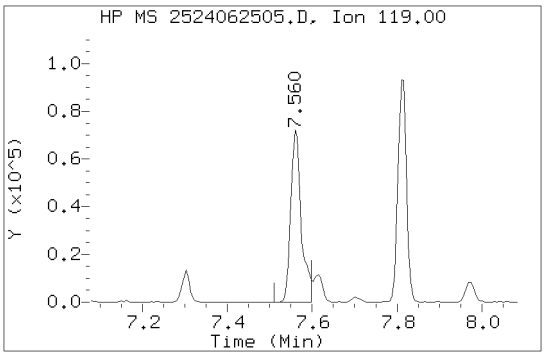

AFTER
MASS
117
AREA
25931
HEIGHT
14119
25-Jun-2024
19:31



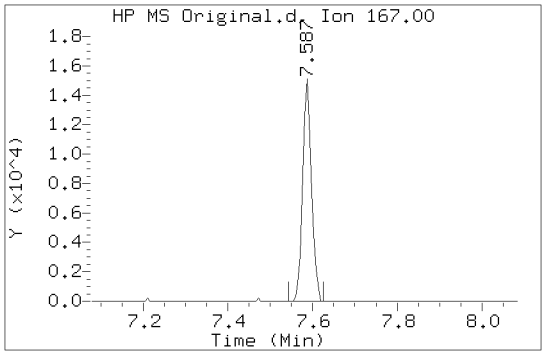

BEFORE
MASS
119
AREA
142818
HEIGHT
72072
25-Jun-2024
18:35



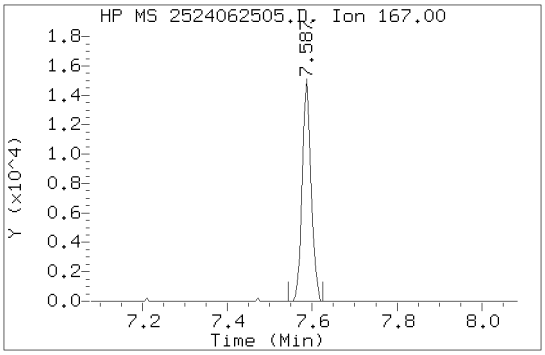

AFTER
MASS
119
AREA
125797
HEIGHT
72072
25-Jun-2024
19:31




BEFORE
MASS
167
AREA
21855
HEIGHT
15118
25-Jun-2024
18:35



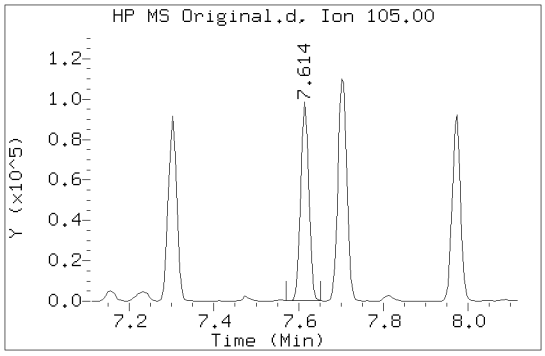

AFTER
MASS
167
AREA
21855
HEIGHT
15118
25-Jun-2024
19:31



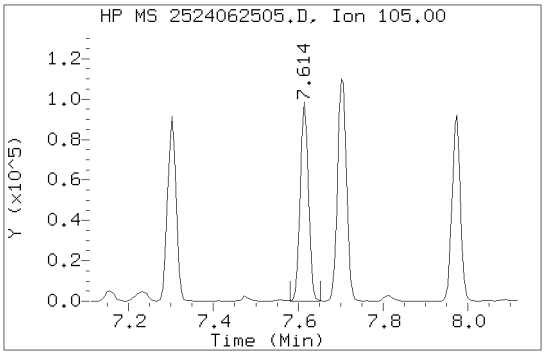

## 1,2,4-Trimethylbenzene (95-63-6)

Reason Code: I

BEFORE
MASS
105
AREA
131894
HEIGHT
98549
25-Jun-2024
18:35




AFTER
MASS
105
AREA
132392
HEIGHT
98665
25-Jun-2024
19:31

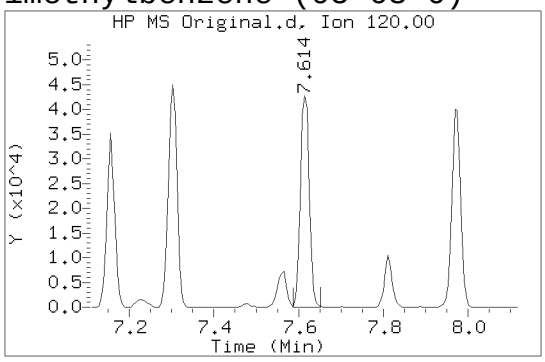


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Inj Date : 25-JUN-2024 11:44
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LabSampID : 1235

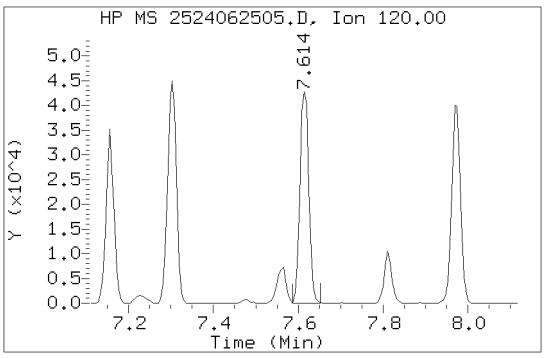
## 1,2,4-Trimethylbenzene (95-63-6)

Reason Code: I

**BEFORE**
MASS
120
AREA
62494
HEIGHT
42800
25-Jun-2024
18:35



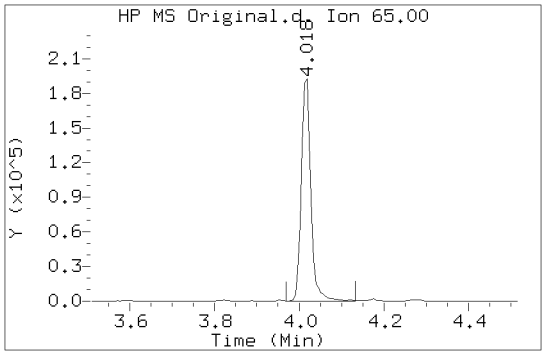

**AFTER**
MASS
120
AREA
62494
HEIGHT
42800
25-Jun-2024
19:31



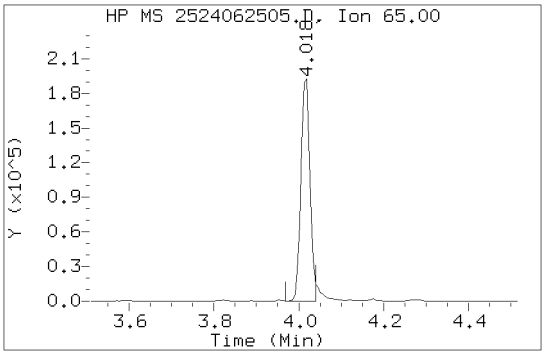

## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

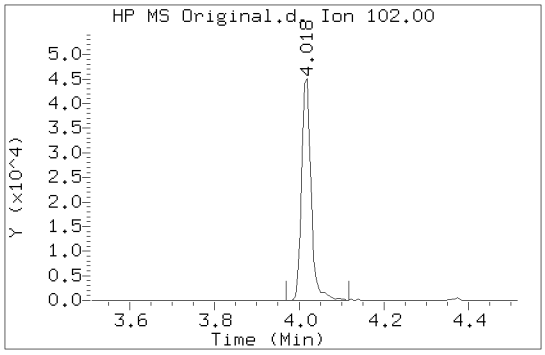
**BEFORE**
MASS
65
AREA
300002
HEIGHT
192254
25-Jun-2024
18:35



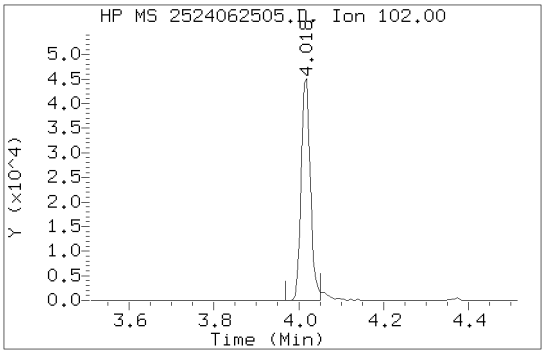

**AFTER**
MASS
65
AREA
286783
HEIGHT
192254
25-Jun-2024
19:31



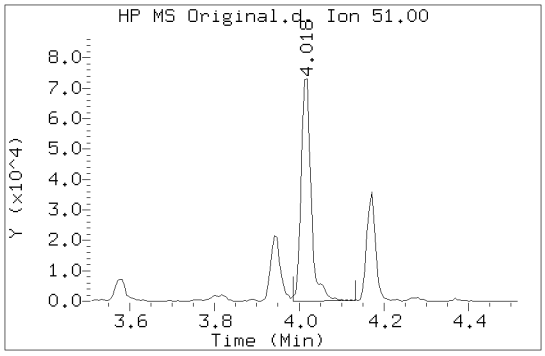

**BEFORE**
MASS
102
AREA
70502
HEIGHT
45072
25-Jun-2024
18:35



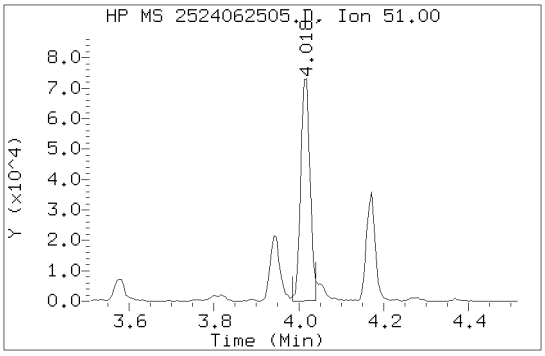

**AFTER**
MASS
102
AREA
68255
HEIGHT
45072
25-Jun-2024
19:31




**BEFORE**
MASS
51
AREA
120714
HEIGHT
72920
25-Jun-2024
18:35




**AFTER**
MASS
51
AREA
112476
HEIGHT
72920
25-Jun-2024
19:31



# UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406250
Inj Date: 25-JUN-2024 11:44
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062506.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062506.D
Lab Smp Id: 1236
Inj Date : 25-JUN-2024 12:04
Operator : ILY Inst ID: ms25.i
Smp Info : 1236;;1;1;3;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\25-8260b09.m
Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.497 | 1.497 | (0.359) | 218972 | 20.0000 | 18.3014 | |
| 2 Chloromethane | 50 | 1.644 | 1.645 | (0.394) | 186575 | 20.0000 | 17.7810 | |
| 3 Vinyl Chloride | 62 | 1.704 | 1.705 | (0.409) | 244505 | 20.0000 | 18.0770 | |
| 4 Bromomethane | 94 | 1.922 | 1.923 | (0.461) | 128221 | 20.0000 | 19.5396 | |
| 5 Chloroethane | 64 | 2.004 | 2.005 | (0.481) | 167849 | 20.0000 | 18.1769 | |
| 6 Pentane | 41 | 2.091 | 2.092 | (0.502) | 154298 | 20.0000 | 17.6328 | |
| 7 Trichlorofluoromethane | 101 | 2.097 | 2.103 | (0.503) | 342524 | 20.0000 | 18.4880 | |
| 8 Dichlorofluoromethane | 67 | 2.124 | 2.125 | (0.509) | 330328 | 20.0000 | 19.2692 | |
| 9 Ethyl Ether | 74 | 2.277 | 2.278 | (0.546) | 104226 | 20.0000 | 19.9934 | |
| 10 1,1-Dichloroethene | 61 | 2.413 | 2.409 | (0.579) | 195734 | 20.0000 | 18.8162 | |
| 11 Freon 113 | 101 | 2.424 | 2.425 | (0.581) | 135864 | 20.0000 | 18.5692 | |
| 12 Carbon Disulfide | 76 | 2.446 | 2.447 | (0.587) | 414688 | 20.0000 | 18.4799 | |
| 13 Iodomethane | 127 | 2.506 | 2.507 | (0.601) | 55931 | 20.0000 | 14.2386 | |
| 14 Acrolein | 56 | 2.599 | 2.600 | (0.623) | 158045 | 100.000 | 94.1918 | |
| 15 Isopropyl Alcohol | 45 | 2.653 | 2.654 | (0.636) | 48509 | 100.000 | 86.3919 | |
| 16 3-Chloro-1-propene | 41 | 2.681 | 2.676 | (0.643) | 163615 | 20.0000 | 18.1616 | |
| 17 Methylene Chloride | 84 | 2.741 | 2.741 | (0.657) | 162608 | 20.0000 | 19.1368 | |
| 18 Acetone | 58 | 2.757 | 2.752 | (0.661) | 85596 | 100.000 | 90.9222 | |
| 19 Methyl acetate | 74 | 2.817 | 2.812 | (0.676) | 35525 | 20.0000 | 18.1033 | |
| 20 trans-1,2-Dichloroethene | 61 | 2.828 | 2.829 | (0.678) | 192543 | 20.0000 | 18.8981 | |
| 21 Hexane | 57 | 2.866 | 2.867 | (0.687) | 304896 | 20.0000 | 17.8025 | |

Data File: 2524062506.D
Report Date: 25-Jun-2024 19:32



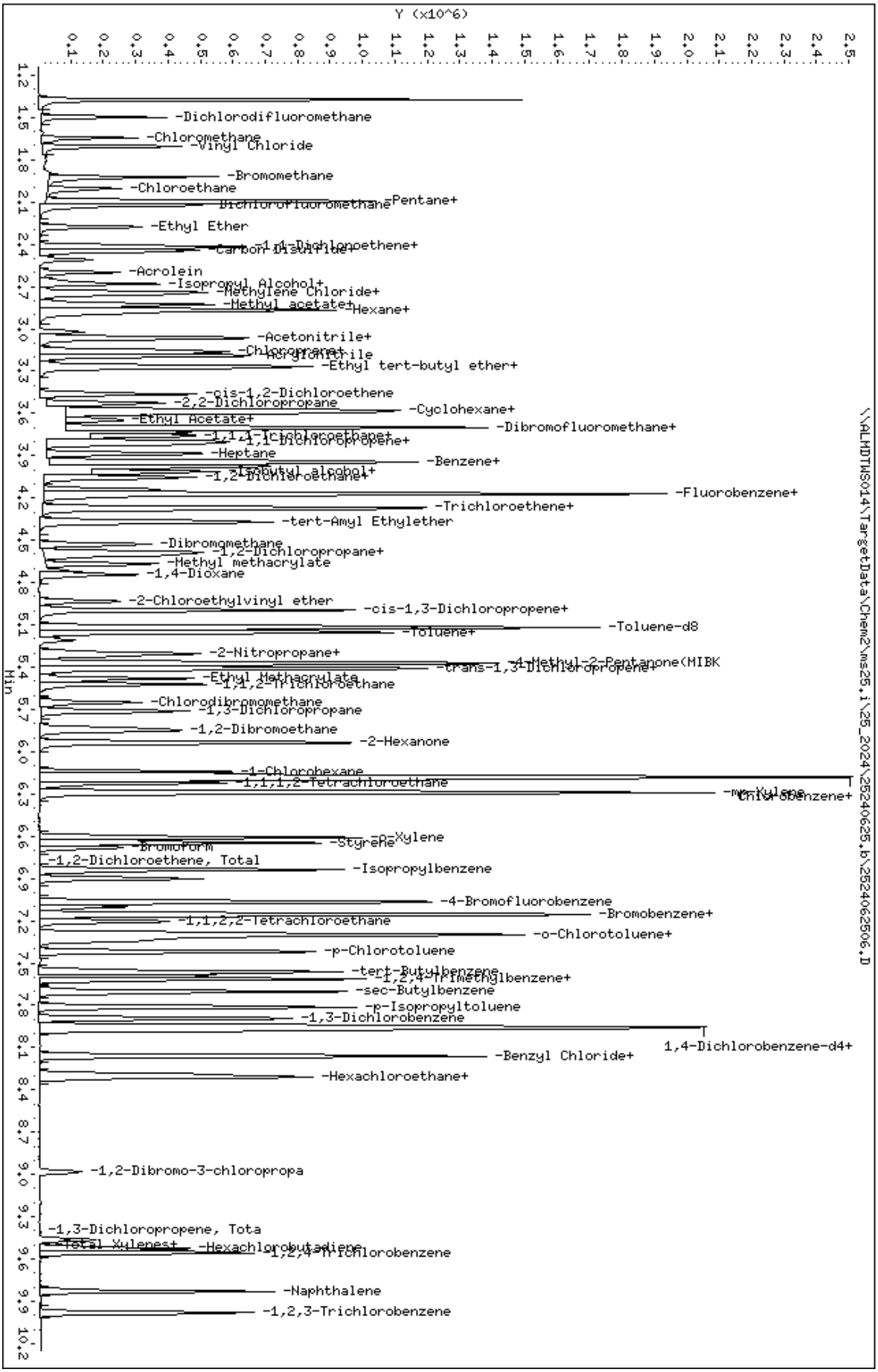
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | 2.872 | 2.872 | (0.689) | 466744 | 20.0000 | 18.0052 | |
| | 23 tert.- Butyl Alcohol | 59 | 2.894 | 2.889 | (0.694) | 93681 | 100.000 | 99.6811 | |
| | 24 Acetonitrile | 41 | 3.019 | 3.020 | (0.724) | 101641 | 100.000 | 96.5507 | |
| | 25 Diisopropyl ether | 45 | 3.063 | 3.063 | (0.734) | 437840 | 20.0000 | 19.3632 | |
| | 26 Chloroprene | 53 | 3.155 | 3.156 | (0.757) | 221317 | 20.0000 | 19.3055 | |
| | 27 1,1-Dichloroethane | 63 | 3.172 | 3.167 | (0.761) | 262971 | 20.0000 | 18.9452 | |
| | 28 Acrylonitrile | 53 | 3.194 | 3.194 | (0.766) | 357939 | 100.000 | 99.0143(M) | MP |
| | 29 Ethyl tert-butyl ether | 59 | 3.265 | 3.265 | (0.783) | 474249 | 20.0000 | 19.7473 | |
| | 30 n-Propanol | 41 | 3.265 | 3.260 | (0.783) | 78030 | 200.000 | 175.162 | |
| | 31 Vinyl Acetate | 86 | 3.275 | 3.276 | (0.785) | 38506 | 20.0000 | 16.5102(Q) | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.461 | 3.462 | (0.830) | 202733 | 20.0000 | 19.6245 | |
| | 33 2,2-Dichloropropane | 77 | 3.526 | 3.522 | (0.846) | 209285 | 20.0000 | 18.9176 | |
| | 34 Bromochloromethane | 128 | 3.576 | 3.576 | (0.857) | 89307 | 20.0000 | 20.0465(M) | I |
| | 35 Cyclohexane | 84 | 3.587 | 3.587 | (0.860) | 228148 | 20.0000 | 18.4057 | |
| | 36 Chloroform | 83 | 3.597 | 3.598 | (0.863) | 289206 | 20.0000 | 19.3002 | |
| | 37 Ethyl Acetate | 43 | 3.636 | 3.642 | (0.872) | 158992 | 20.0000 | 17.6402 | |
| | 38 Methyl acrylate | 55 | 3.652 | 3.653 | (0.876) | 161402 | 20.0000 | 19.4022 | |
| | 39 Carbon Tetrachloride | 117 | 3.696 | 3.696 | (0.886) | 178993 | 20.0000 | 16.5213(M) | MP |
| $ | 41 Dibromofluoromethane | 113 | 3.707 | 3.707 | (0.889) | 254218 | 30.0000 | 29.7958 | |
| | 40 Tetrahydrofuran | 42 | 3.696 | 3.696 | (0.886) | 239357 | 100.000 | 94.1190 | |
| | 42 1,1,1-Trichloroethane | 97 | 3.734 | 3.740 | (0.895) | 229321 | 20.0000 | 19.6617 | |
| | 43 2-Butanone | 72 | 3.761 | 3.767 | (0.902) | 119256 | 100.000 | 97.0025(M) | MP |
| | 44 1,1-Dichloropropene | 75 | 3.799 | 3.800 | (0.911) | 209130 | 20.0000 | 18.9558 | |
| | 45 1-Chlorobutane | 41 | 3.821 | 3.822 | (0.916) | 125975 | 20.0000 | 17.7561(M) | I |
| | 46 Heptane | 71 | 3.881 | 3.887 | (0.931) | 113785 | 20.0000 | 17.7521 | |
| | 47 Benzene | 78 | 3.941 | 3.942 | (0.945) | 633576 | 20.0000 | 18.6841 | |
| | 48 Propionitrile | 54 | 3.941 | 3.942 | (0.945) | 134551 | 100.000 | 98.2898 | |
| | 49 Methacrylonitrile | 67 | 3.952 | 3.953 | (0.948) | 80238 | 20.0000 | 19.5530 | |
| | 50 tert-Amyl methyl ether | 73 | 3.974 | 3.975 | (0.953) | 449684 | 20.0000 | 19.3976 | |
| | 54 Isobutyl alcohol | 42 | 3.990 | 3.980 | (0.957) | 34403 | 200.000 | 167.479(QM) | MP |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.012 | 4.013 | (0.962) | 270413 | 30.0000 | 30.0658(M) | MP |
| | 52 1,2-Dichloroethane | 62 | 4.056 | 4.056 | (0.973) | 198579 | 20.0000 | 18.6286 | |
| | 53 tert-Amyl Alcohol | 59 | 4.056 | 4.062 | (0.973) | 67407 | 100.000 | 93.4837 | |
| * | 55 Fluorobenzene | 96 | 4.170 | 4.171 | (1.000) | 1081327 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.176 | 4.171 | (1.001) | 376363 | 20.0000 | 17.0103 | |
| | 57 Trichloroethene | 95 | 4.269 | 4.269 | (1.024) | 154832 | 20.0000 | 18.0411 | |
| | 58 Methyl cyclohexane | 83 | 4.274 | 4.275 | (0.692) | 253987 | 20.0000 | 18.9162 | |
| | 59 tert-Amyl Ethylether | 59 | 4.367 | 4.373 | (1.047) | 354280 | 20.0000 | 17.7021 | |
| | 60 Dibromomethane | 93 | 4.525 | 4.526 | (1.085) | 107302 | 20.0000 | 19.7777 | |
| | 61 1,2-Dichloropropane | 63 | 4.585 | 4.586 | (1.099) | 156440 | 20.0000 | 19.1684 | |
| | 62 Bromodichloromethane | 83 | 4.607 | 4.607 | (1.105) | 189702 | 20.0000 | 16.9316 | |
| | 63 Methyl methacrylate | 41 | 4.667 | 4.662 | (1.119) | 123610 | 20.0000 | 19.1373 | |
| | 64 1,4-Dioxane | 88 | 4.716 | 4.722 | (1.131) | 59497 | 500.000 | 470.930(A) | |
| | 65 2-Chloroethylvinyl ether | 63 | 4.934 | 4.935 | (1.183) | 95250 | 20.0000 | 16.1993 | |
| | 66 cis-1,3-Dichloropropene | 75 | 4.994 | 4.995 | (0.809) | 247573 | 20.0000 | 17.8608 | |
| | 67 Octane | 85 | 4.994 | 5.000 | (0.809) | 99968 | 20.0000 | 19.6362 | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 1004639 | 30.0000 | 30.6546 | |
| | 69 Toluene | 92 | 5.153 | 5.153 | (0.835) | 377248 | 20.0000 | 18.1613 | |
| | 70 Chloroacetonitrile | 75 | 5.207 | 5.208 | (0.844) | 48573 | 100.000 | 93.8022 | |
| | 71 2-Nitropropane | 41 | 5.300 | 5.300 | (0.859) | 186383 | 100.000 | 83.0816 | |
| | 72 1,1-Dichloro-2-Propanone | 63 | 5.311 | 5.317 | (0.860) | 18693 | 100.000 | 86.1649(Q) | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.371 | 5.371 | (0.870) | 770302 | 100.000 | 94.5351 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.409 | 5.410 | (0.876) | 223814 | 20.0000 | 17.4534 | |
| | 74 Tetrachloroethene | 164 | 5.409 | 5.410 | (0.876) | 146028 | 20.0000 | 19.3061 | |

Data File: 2524062506.D Page 3
Report Date: 25-Jun-2024 19:32

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl Methacrylate | 69 | 5.480 | 5.481 | (0.888) | 223797 | 20.0000 | 18.0778 | |
| | 77 1,1,2-Trichloroethane | 83 | 5.524 | 5.524 | (0.895) | 126126 | 20.0000 | 19.7624 | |
| | 78 Chlorodibromomethane | 129 | 5.649 | 5.650 | (0.915) | 154197 | 20.0000 | 17.2869 | |
| | 79 1,3-Dichloropropane | 76 | 5.715 | 5.710 | (0.926) | 254532 | 20.0000 | 20.1855 | |
| | 80 1,2-Dibromoethane | 107 | 5.829 | 5.830 | (0.944) | 153645 | 20.0000 | 18.2360 | |
| | 81 2-Hexanone | 43 | 5.933 | 5.933 | (0.961) | 515146 | 100.000 | 92.2414 | |
| | 82 1-Chlorohexane | 91 | 6.146 | 6.146 | (0.996) | 207769 | 20.0000 | 19.0130 | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.174 | (1.000) | 413941 | 30.0000 | (M) | MP |
| | 84 Chlorobenzene | 112 | 6.184 | 6.184 | (1.002) | 413442 | 20.0000 | 19.5313 | |
| | 85 Ethylbenzene | 106 | 6.189 | 6.190 | (1.003) | 219414 | 20.0000 | 17.6413 | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | 6.222 | 6.223 | (1.008) | 142310 | 20.0000 | 18.0101 | |
| | 87 mp-Xylene | 106 | 6.287 | 6.288 | (1.019) | 535925 | 40.0000 | 35.9652 | |
| | 88 o-Xylene | 106 | 6.609 | 6.610 | (1.071) | 249220 | 20.0000 | 17.6917 | |
| | 89 Styrene | 104 | 6.648 | 6.648 | (0.836) | 391500 | 20.0000 | 17.3301(M) | MP |
| | 90 Bromoform | 173 | 6.680 | 6.686 | (0.840) | 102722 | 20.0000 | 16.1644 | |
| | 91 Isopropylbenzene | 105 | 6.839 | 6.839 | (0.860) | 566222 | 20.0000 | 17.8690 | |
| M | 100 1,2-Dichloroethene, Total | 61 | | | | 395276 | 40.0000 | 38.5226 | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 329556 | 30.0000 | 30.8412 | |
| | 93 Bromobenzene | 156 | 7.155 | 7.156 | (0.900) | 171981 | 20.0000 | 18.8323 | |
| | 94 n-Propylbenzene | 120 | 7.155 | 7.156 | (0.900) | 172929 | 20.0000 | 18.5182 | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | 7.204 | 7.205 | (0.906) | 181899 | 20.0000 | 20.0402 | |
| | 96 o-Chlorotoluene | 91 | 7.291 | 7.292 | (0.917) | 467074 | 20.0000 | 19.0107 | |
| | 97 1,3,5-Trimethylbenzene | 105 | 7.302 | 7.303 | (0.918) | 483177 | 20.0000 | 18.5913 | |
| | 98 1,2,3-Trichloropropane | 110 | 7.324 | 7.325 | (0.921) | 58202 | 20.0000 | 19.8811 | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | 7.346 | 7.341 | (0.924) | 47099 | 20.0000 | 17.1018(M) | MP |
| | 101 p-Chlorotoluene | 91 | 7.417 | 7.418 | (0.933) | 428598 | 20.0000 | 19.2591 | |
| | 102 tert-Butylbenzene | 134 | 7.564 | 7.559 | (0.951) | 123761 | 20.0000 | 19.9106 | |
| | 103 Pentachloroethane | 117 | 7.586 | 7.581 | (0.954) | 104294 | 20.0000 | 16.9034(M) | MP |
| | 104 1,2,4-Trimethylbenzene | 105 | 7.613 | 7.614 | (0.957) | 488792 | 20.0000 | 17.6631 | |
| | 105 sec-Butylbenzene | 105 | 7.701 | 7.707 | (0.968) | 625458 | 20.0000 | 19.4719 | |
| | 106 p-Isopropyltoluene | 134 | 7.815 | 7.816 | (0.983) | 142765 | 20.0000 | 19.4087 | |
| | 107 1,3-Dichlorobenzene | 146 | 7.892 | 7.892 | (0.992) | 294339 | 20.0000 | 19.1313 | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 386252 | 30.0000 | | |
| | 109 1,4-Dichlorobenzene | 146 | 7.963 | 7.963 | (1.001) | 300384 | 20.0000 | 18.7310 | |
| | 110 Benzyl Chloride | 126 | 8.159 | 8.160 | (1.026) | 59767 | 20.0000 | 15.8725(Q) | |
| | 111 n-Butylbenzene | 134 | 8.159 | 8.160 | (1.026) | 125006 | 20.0000 | 18.1853 | |
| | 112 Hexachloroethane | 117 | 8.290 | 8.285 | (1.043) | 85914 | 20.0000 | 15.8547 | |
| | 113 1,2-Dichlorobenzene | 146 | 8.312 | 8.311 | (1.045) | 283817 | 20.0000 | 19.3661 | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | 8.983 | 8.984 | (1.130) | 27852 | 20.0000 | 16.3262 | |
| | 115 Nitrobenzene | 77 | 9.463 | 9.464 | (1.190) | 74725 | 200.000 | 143.781 | |
| | 116 Hexachlorobutadiene | 225 | 9.523 | 9.524 | (1.198) | 82540 | 20.0000 | 17.1898 | |
| M | 120 1,3-Dichloropropene, Total | 75 | | | | 471387 | 40.0000 | 35.3142 | |
| | 117 1,2,4-Trichlorobenzene | 180 | 9.556 | 9.556 | (1.202) | 179576 | 20.0000 | 18.5029 | |
| M | 121 Total Xylenes | 106 | | | | 785145 | 60.0000 | 53.6568 | |
| | 118 Naphthalene | 128 | 9.829 | 9.829 | (1.236) | 463248 | 20.0000 | 16.4549 | |
| | 119 1,2,3-Trichlorobenzene | 180 | 9.981 | 9.982 | (1.255) | 178753 | 20.0000 | 16.5886 | |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.




Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\25240625006.D
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Client ID:
Sample Info: 1236;1;1;3;;;
Purge Volume: 5.0
Column phase: DB-VRX

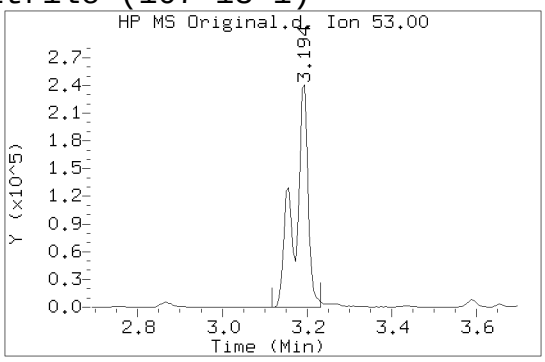
Instrument: ms25.i
Operator: ILY
Column diameter: 0.25

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062506.D
Inj Date : 25-JUN-2024 12:04
InstruID : ms25.i
LabSampID : 1236

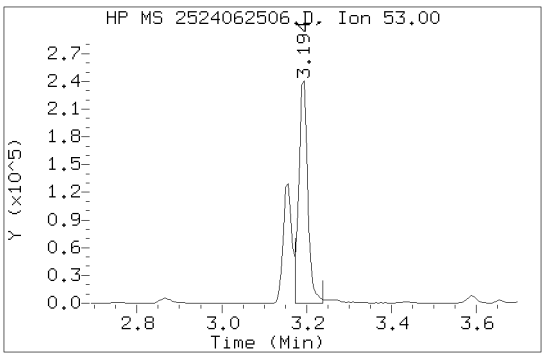
## Acrylonitrile (107-13-1)

Reason Code: MP

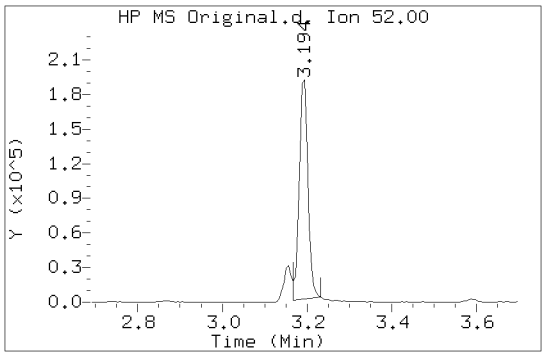
BEFORE
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53
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HEIGHT
240576
25-Jun-2024
18:30



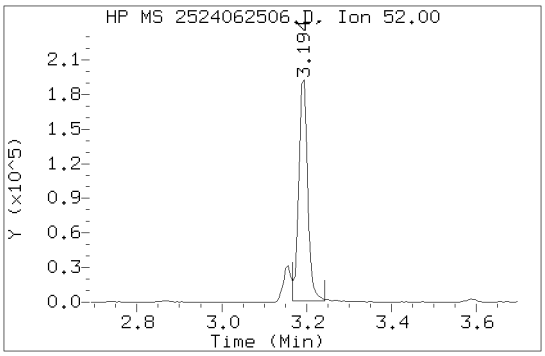

AFTER
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HEIGHT
240303
25-Jun-2024
19:31



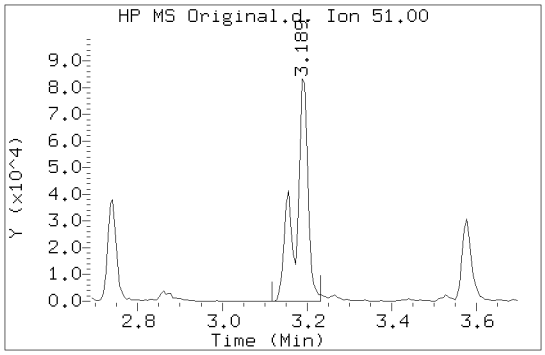

BEFORE
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HEIGHT
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25-Jun-2024
18:30



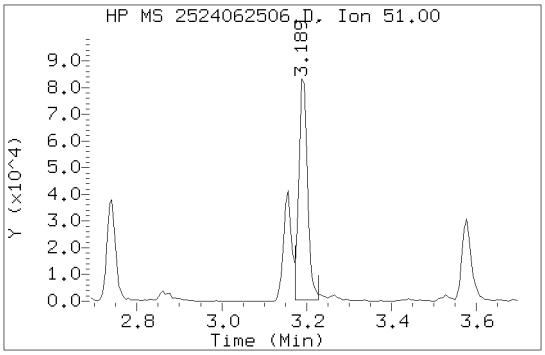

AFTER
MASS
52
AREA
282064
HEIGHT
191416
25-Jun-2024
19:31




BEFORE
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AREA
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HEIGHT
83248
25-Jun-2024
18:30



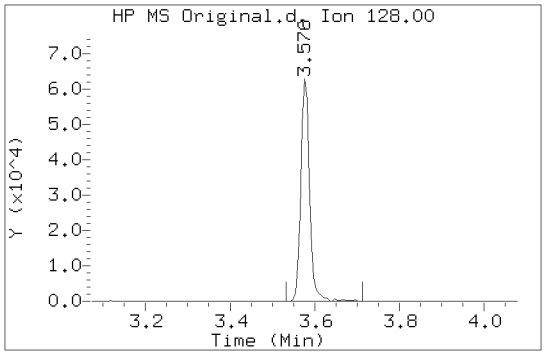

AFTER
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25-Jun-2024
19:31



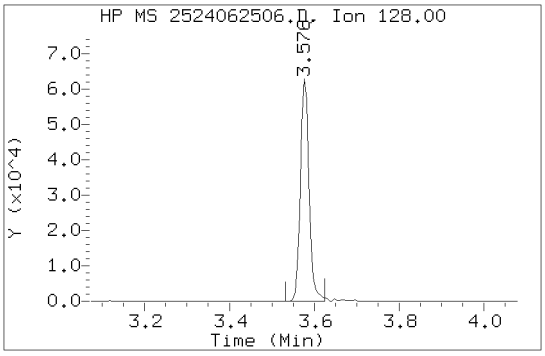

## Bromochloromethane (74-97-5)

Reason Code: I

BEFORE
MASS
128
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62864
25-Jun-2024
18:30




AFTER
MASS
128
AREA
89307
HEIGHT
62864
25-Jun-2024
19:31

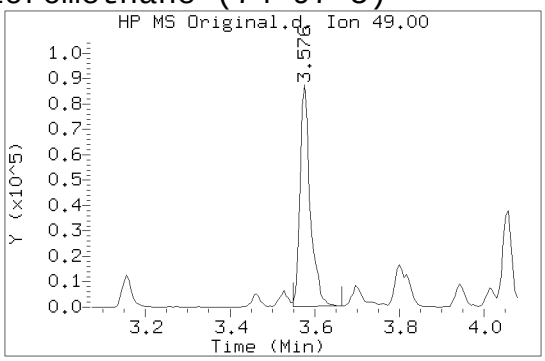


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Inj Date : 25-JUN-2024 12:04
InstruID : ms25.i
LabSampID : 1236

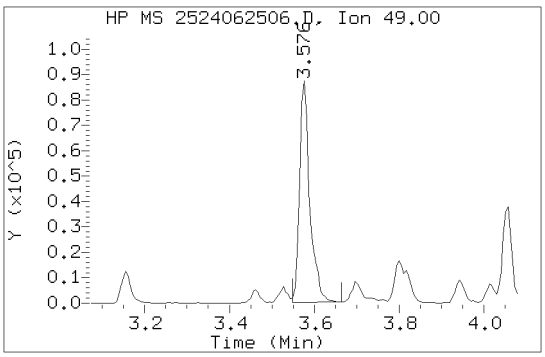
## Bromochloromethane (74-97-5)

Reason Code: I

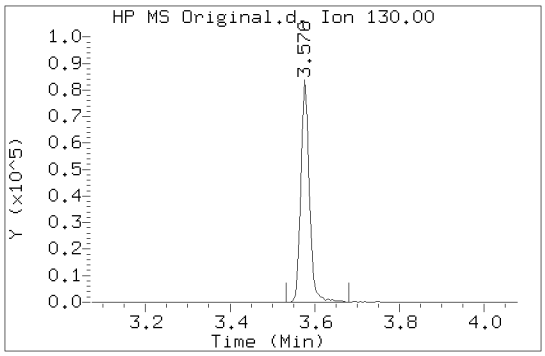
BEFORE
MASS
49
AREA
145936
HEIGHT
87229
25-Jun-2024
18:30



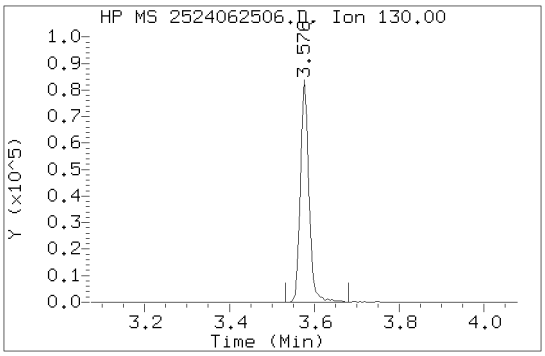

AFTER
MASS
49
AREA
145936
HEIGHT
87229
25-Jun-2024
19:31




BEFORE
MASS
130
AREA
116625
HEIGHT
83816
25-Jun-2024
18:30



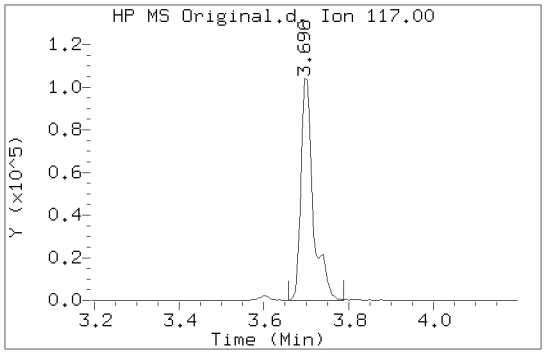

AFTER
MASS
130
AREA
116625
HEIGHT
83816
25-Jun-2024
19:31



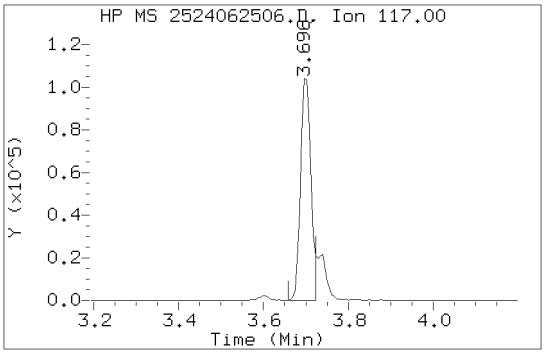

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

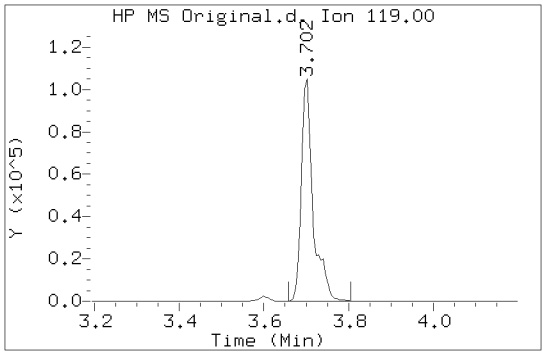
BEFORE
MASS
117
AREA
211149
HEIGHT
104040
25-Jun-2024
18:30



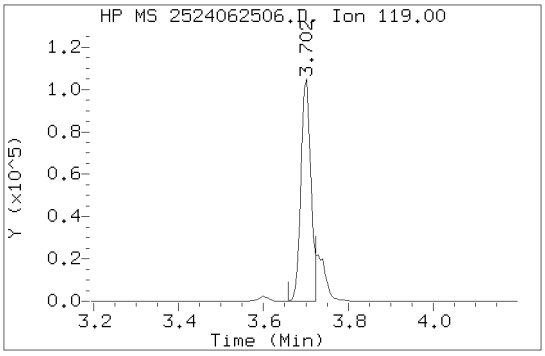

AFTER
MASS
117
AREA
178993
HEIGHT
104040
25-Jun-2024
19:31




BEFORE
MASS
119
AREA
203931
HEIGHT
105000
25-Jun-2024
18:30




AFTER
MASS
119
AREA
172558
HEIGHT
105000
25-Jun-2024
19:31

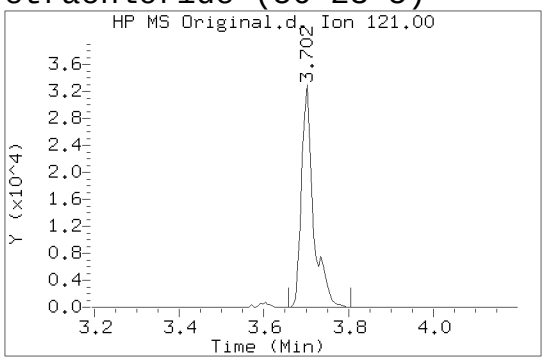


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Inj Date : 25-JUN-2024 12:04
InstruID : ms25.i
LabSampID : 1236

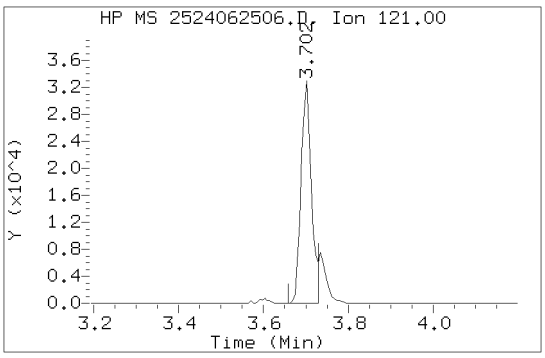
## Carbon Tetrachloride (56-23-5)

Reason Code: MP

**BEFORE**
MASS
121
AREA
64517
HEIGHT
32968
25-Jun-2024
18:30



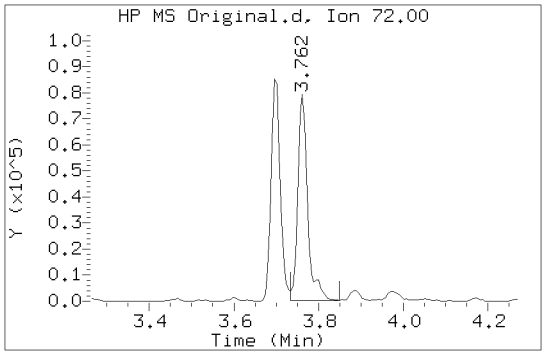

**AFTER**
MASS
121
AREA
55966
HEIGHT
32968
25-Jun-2024
19:31



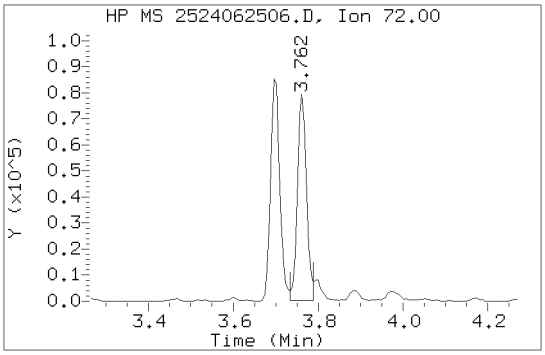

## 2-Butanone (78-93-3)

Reason Code: MP

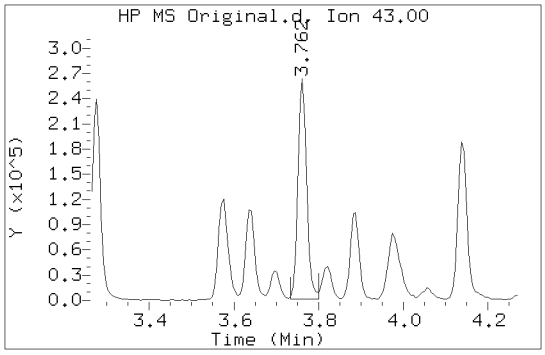
**BEFORE**
MASS
72
AREA
128471
HEIGHT
79252
25-Jun-2024
18:30



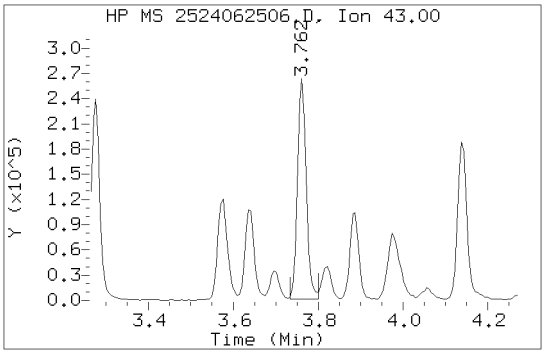

**AFTER**
MASS
72
AREA
119256
HEIGHT
79253
25-Jun-2024
19:31




**BEFORE**
MASS
43
AREA
376948
HEIGHT
262047
25-Jun-2024
18:30



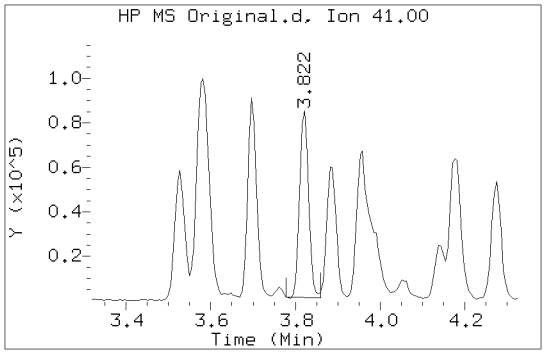

**AFTER**
MASS
43
AREA
376948
HEIGHT
262047
25-Jun-2024
19:31



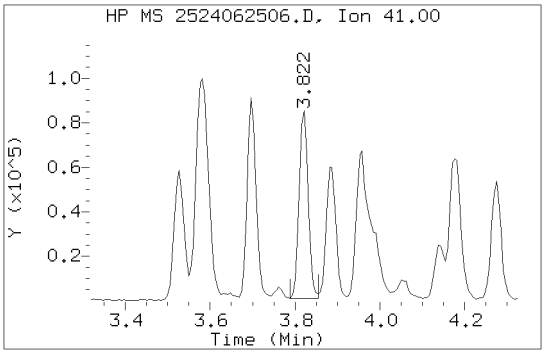

## 1-Chlorobutane (109-69-3)

Reason Code: I

**BEFORE**
MASS
41
AREA
124558
HEIGHT
83995
25-Jun-2024
18:30




**AFTER**
MASS
41
AREA
125975
HEIGHT
84503
25-Jun-2024
19:31

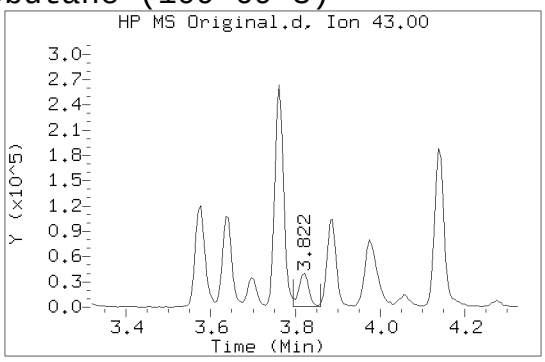


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Inj Date : 25-JUN-2024 12:04
InstruID : ms25.i
LabSampID : 1236

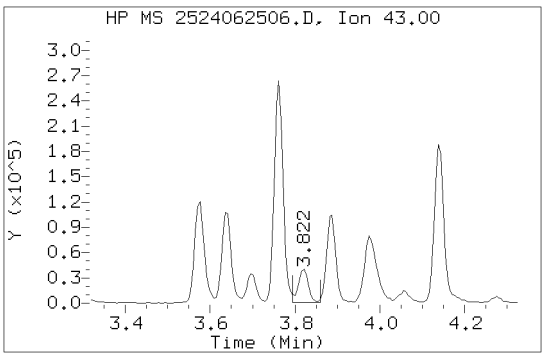
## 1-Chlorobutane (109-69-3)

Reason Code: I

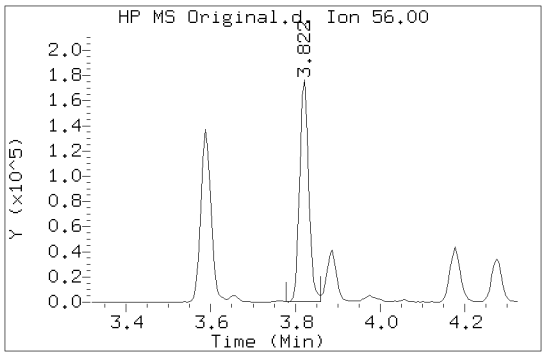
BEFORE
MASS
43
AREA
66729
HEIGHT
39675
25-Jun-2024
18:30



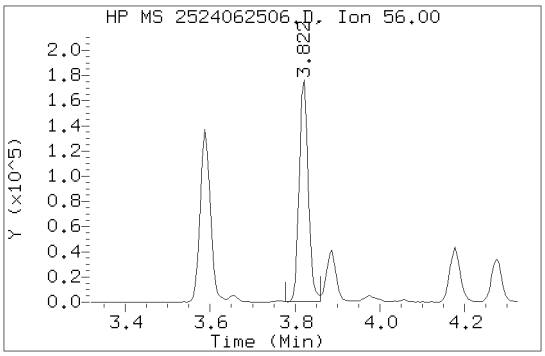

AFTER
MASS
43
AREA
66729
HEIGHT
39675
25-Jun-2024
19:31




BEFORE
MASS
56
AREA
263874
HEIGHT
176057
25-Jun-2024
18:30



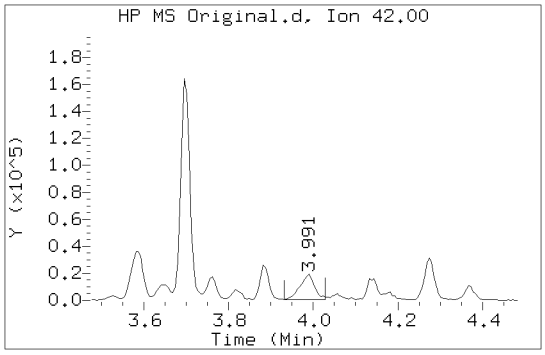

AFTER
MASS
56
AREA
263874
HEIGHT
176057
25-Jun-2024
19:31



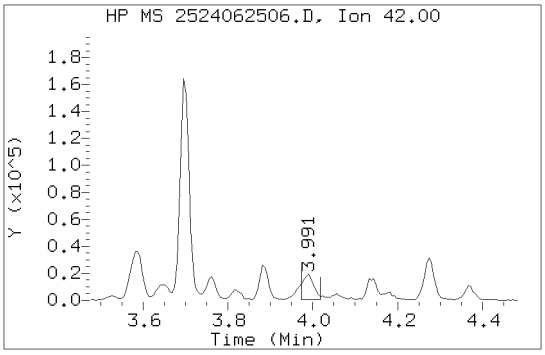

## Isobutyl alcohol (78-83-1)

Reason Code: MP

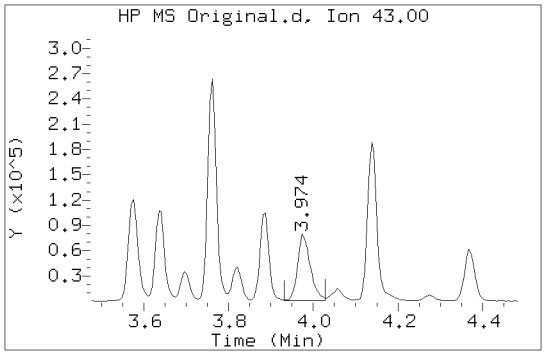
BEFORE
MASS
42
AREA
44994
HEIGHT
18890
25-Jun-2024
18:30



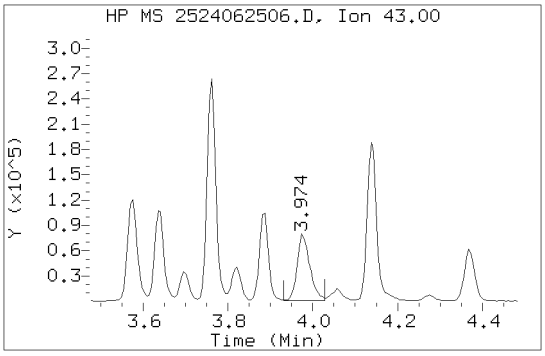

AFTER
MASS
42
AREA
34403
HEIGHT
19071
25-Jun-2024
19:31




BEFORE
MASS
43
AREA
162595
HEIGHT
78961
25-Jun-2024
18:30




AFTER
MASS
43
AREA
162595
HEIGHT
78961
25-Jun-2024
19:31



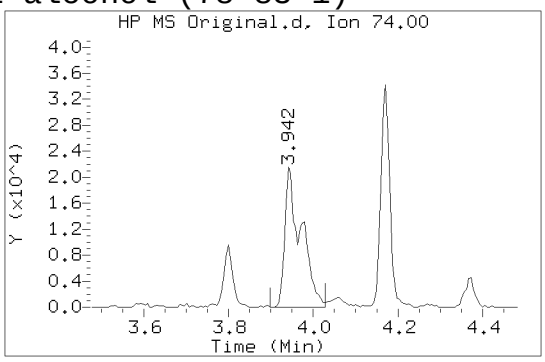
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InstruID : ms25.i
LabSampID : 1236

## Isobutyl alcohol (78-83-1)

Reason Code: MP

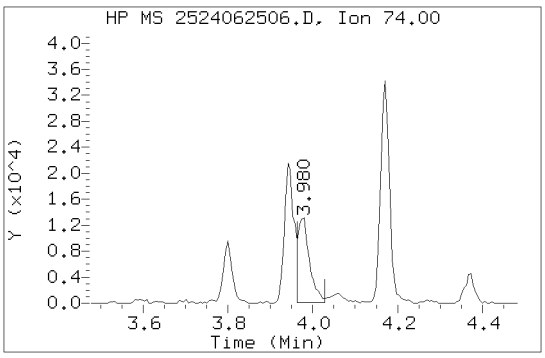
**BEFORE**

MASS
74
AREA
58007
HEIGHT
21560
25-Jun-2024
18:30




**AFTER**

MASS
74
AREA
25639
HEIGHT
13039
25-Jun-2024
19:31

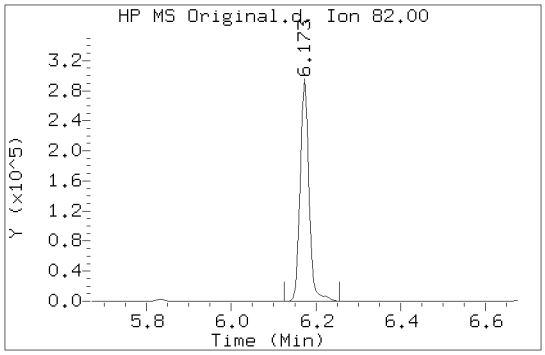



## Chlorobenzene-d5 (3114-55-4)

Reason Code: MP

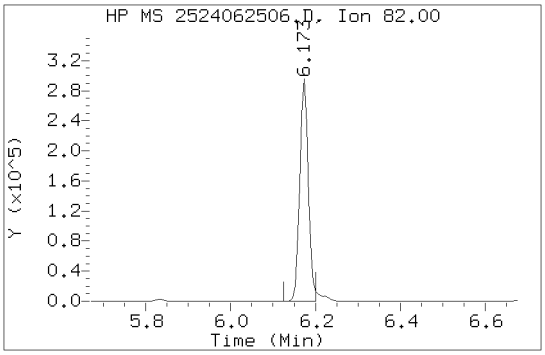
**BEFORE**

MASS
82
AREA
427444
HEIGHT
295680
25-Jun-2024
18:30



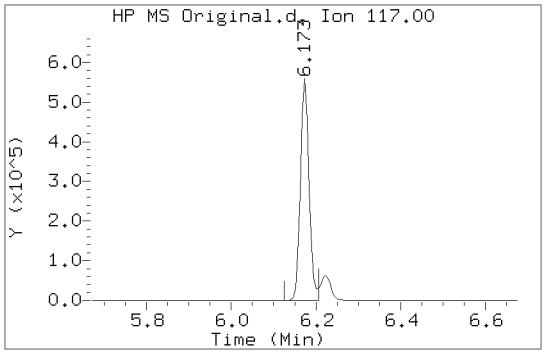

**AFTER**

MASS
82
AREA
413941
HEIGHT
295680
25-Jun-2024
19:31



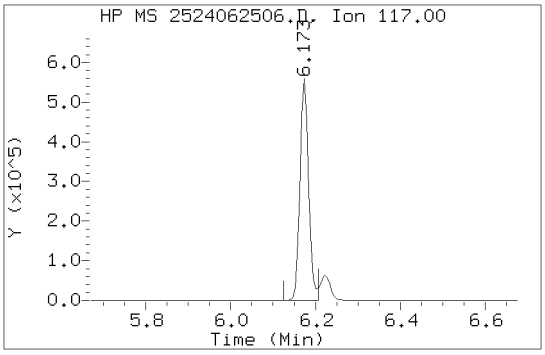

**BEFORE**

MASS
117
AREA
795410
HEIGHT
559168
25-Jun-2024
18:30



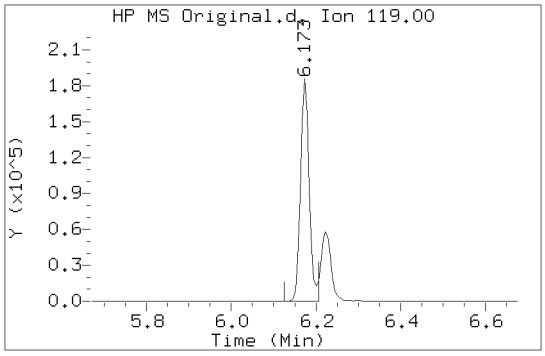

**AFTER**

MASS
117
AREA
795410
HEIGHT
559168
25-Jun-2024
19:31



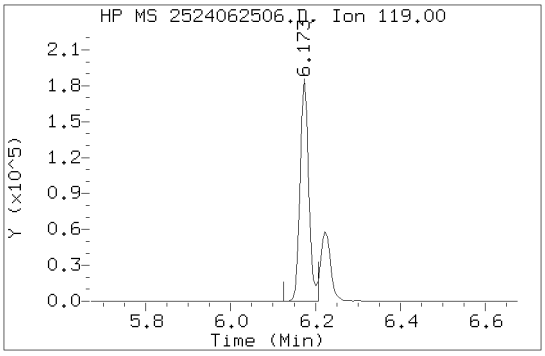

**BEFORE**

MASS
119
AREA
265514
HEIGHT
185728
25-Jun-2024
18:30




**AFTER**

MASS
119
AREA
265514
HEIGHT
185728
25-Jun-2024
19:31

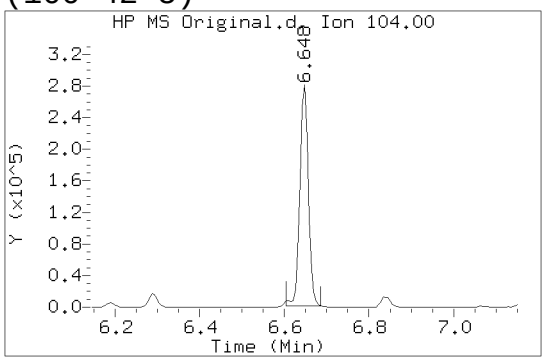


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LabSampID : 1236

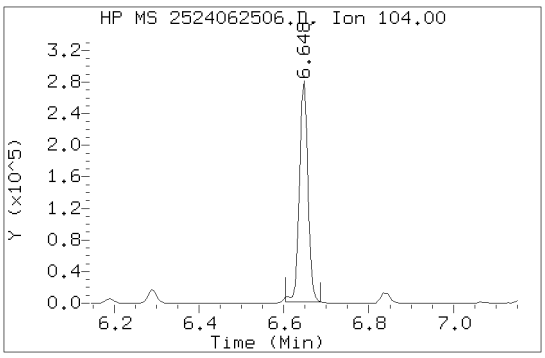
## Styrene (100-42-5)

Reason Code: MP

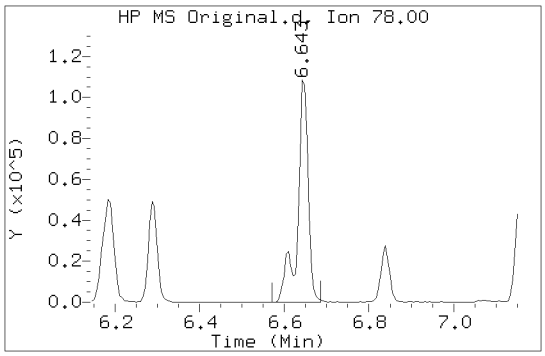
**BEFORE**
MASS
104
AREA
391500
HEIGHT
279792
25-Jun-2024
18:30



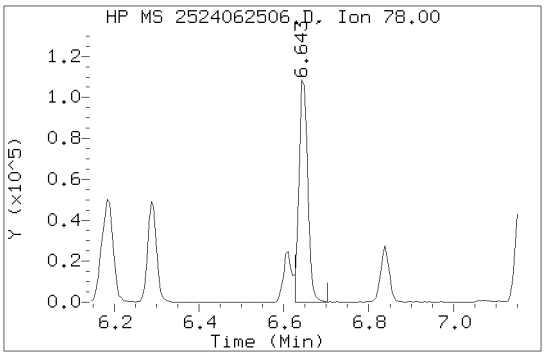

**AFTER**
MASS
104
AREA
391500
HEIGHT
279792
25-Jun-2024
19:31



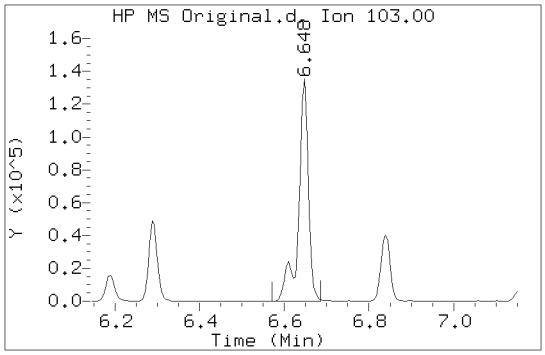

**BEFORE**
MASS
78
AREA
190610
HEIGHT
108552
25-Jun-2024
18:30



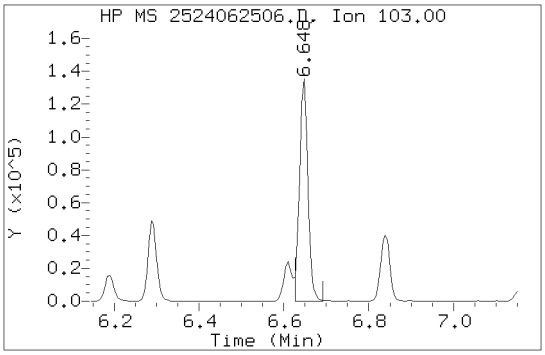

**AFTER**
MASS
78
AREA
157590
HEIGHT
108498
25-Jun-2024
19:31




**BEFORE**
MASS
103
AREA
220134
HEIGHT
135360
25-Jun-2024
18:30



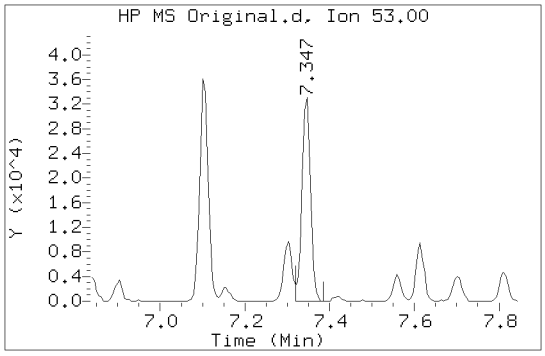

**AFTER**
MASS
103
AREA
187425
HEIGHT
135253
25-Jun-2024
19:31



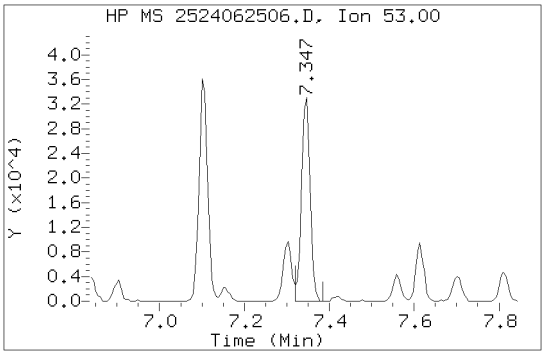

## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

**BEFORE**
MASS
53
AREA
47099
HEIGHT
33112
25-Jun-2024
18:30




**AFTER**
MASS
53
AREA
47099
HEIGHT
33112
25-Jun-2024
19:31

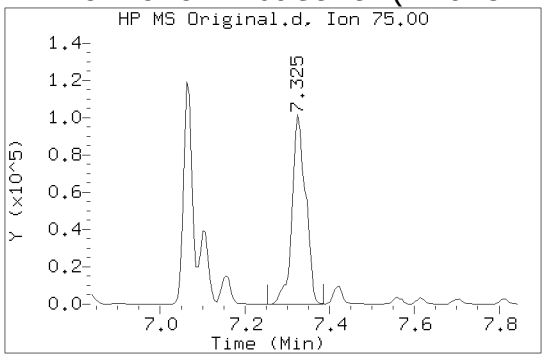


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LabSampID : 1236

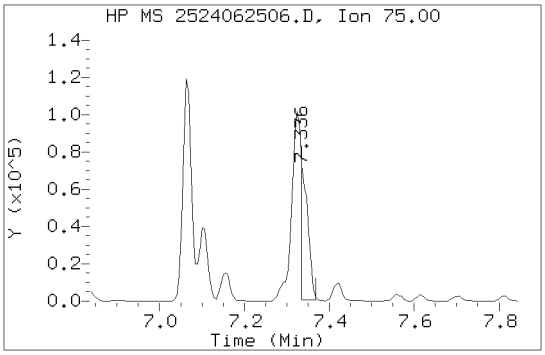
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Reason Code: MP

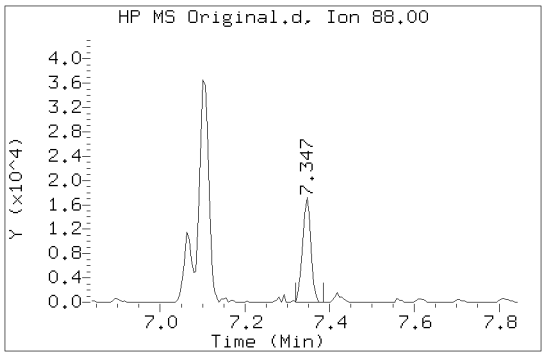
BEFORE
MASS
75
AREA
226916
HEIGHT
101592
25-Jun-2024
18:30



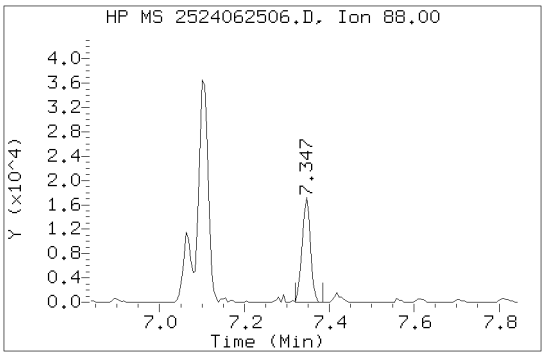

AFTER
MASS
75
AREA
82393
HEIGHT
72327
25-Jun-2024
19:31




BEFORE
MASS
88
AREA
23401
HEIGHT
17216
25-Jun-2024
18:30



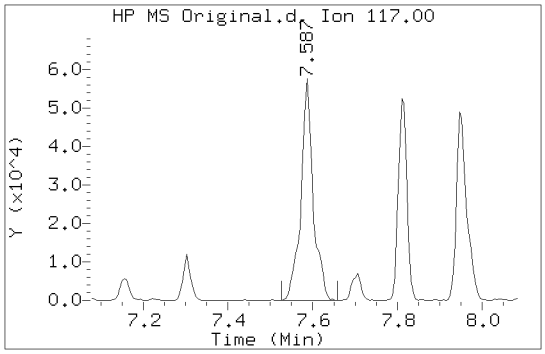

AFTER
MASS
88
AREA
23401
HEIGHT
17216
25-Jun-2024
19:31



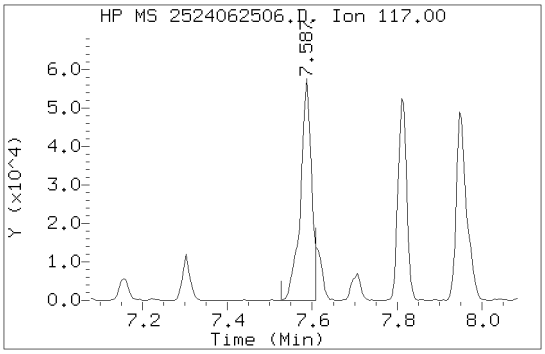

## Pentachloroethane (76-01-7)

Reason Code: MP

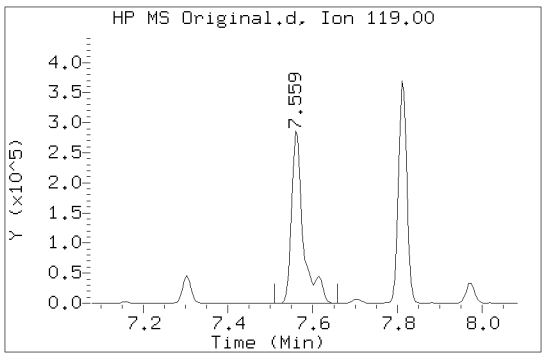
BEFORE
MASS
117
AREA
115930
HEIGHT
57624
25-Jun-2024
18:30



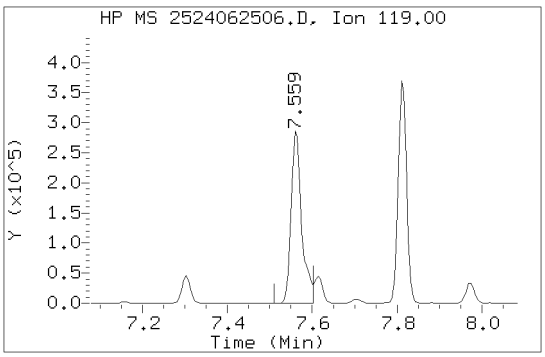

AFTER
MASS
117
AREA
104294
HEIGHT
57624
25-Jun-2024
19:31




BEFORE
MASS
119
AREA
557519
HEIGHT
285888
25-Jun-2024
18:30




AFTER
MASS
119
AREA
503478
HEIGHT
285888
25-Jun-2024
19:31



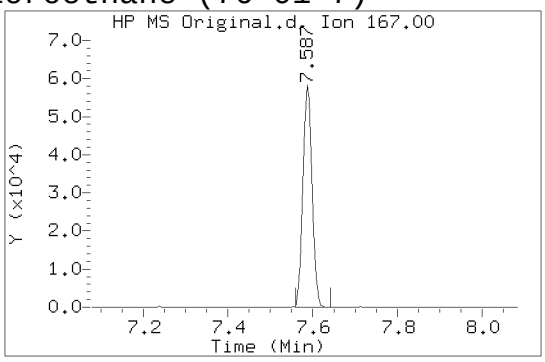
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Inj Date : 25-JUN-2024 12:04
InstruID : ms25.i
LabSampID : 1236

## Pentachloroethane (76-01-7)

Reason Code: MP

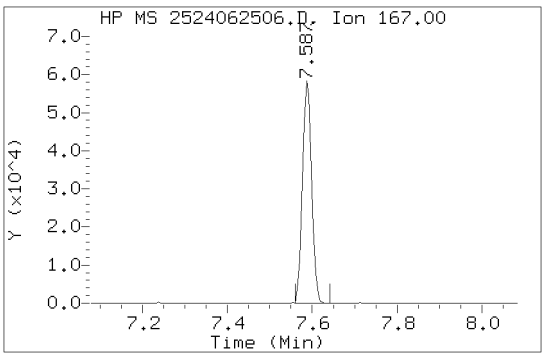
**BEFORE**

MASS
167
AREA
87791
HEIGHT
58336
25-Jun-2024
18:30




**AFTER**

MASS
167
AREA
87791
HEIGHT
58336
25-Jun-2024
19:31

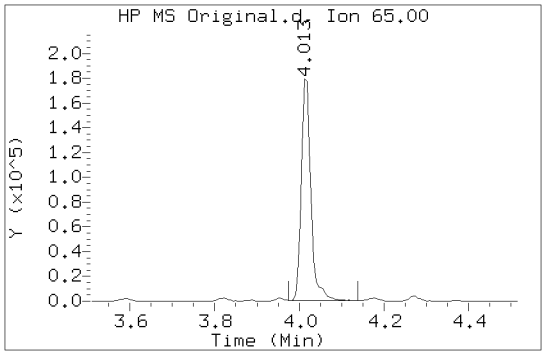



## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

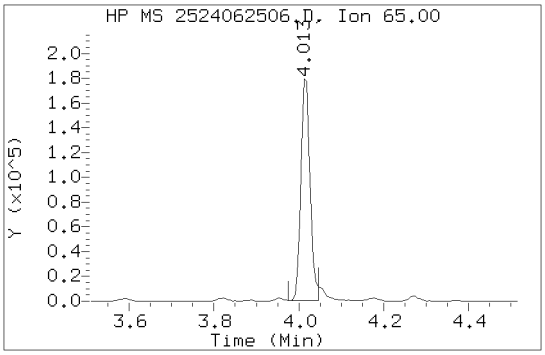
**BEFORE**

MASS
65
AREA
283179
HEIGHT
179074
25-Jun-2024
18:30



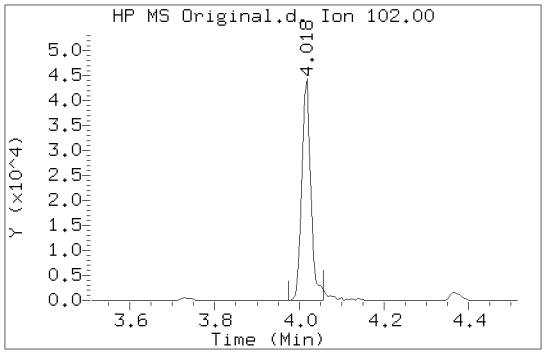

**AFTER**

MASS
65
AREA
270413
HEIGHT
179074
25-Jun-2024
19:31



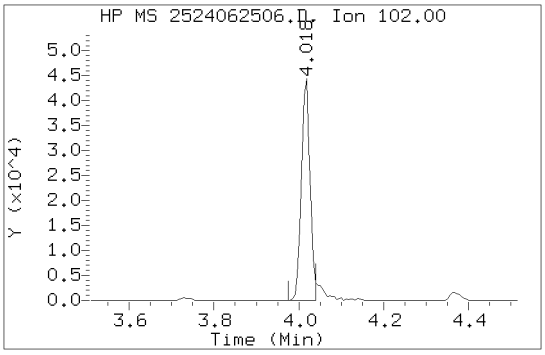

**BEFORE**

MASS
102
AREA
65943
HEIGHT
44392
25-Jun-2024
18:30



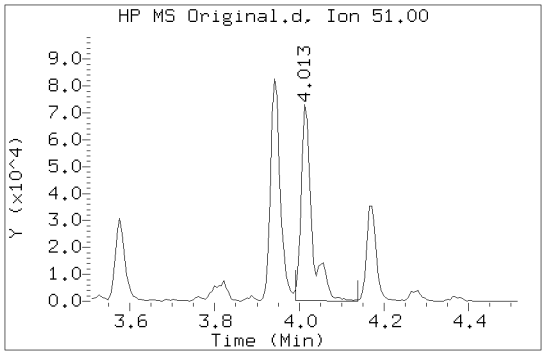

**AFTER**

MASS
102
AREA
63278
HEIGHT
44392
25-Jun-2024
19:31



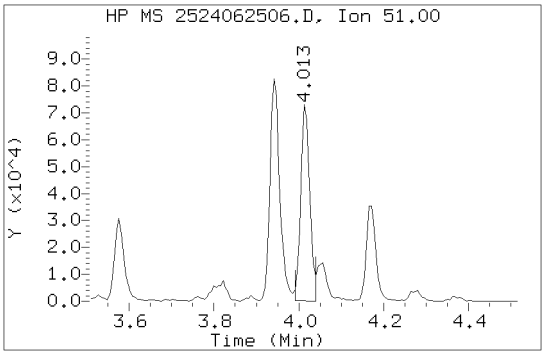

**BEFORE**

MASS
51
AREA
132627
HEIGHT
73037
25-Jun-2024
18:30




**AFTER**

MASS
51
AREA
109122
HEIGHT
73037
25-Jun-2024
19:31



# UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406250
Inj Date: 25-JUN-2024 12:04
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062507.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062507.D
Lab Smp Id: 1237
Inj Date : 25-JUN-2024 12:24
Operator : ILY Inst ID: ms25.i
Smp Info : 1237;;1;1;4;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\25-8260b09.m
Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Dichlorodifluoromethane | 85 | 1.497 | 1.497 | (0.359) | 626482 | 50.0000 | 49.5188 | |
| 2 | Chloromethane | 50 | 1.644 | 1.645 | (0.394) | 540092 | 50.0000 | 48.8810 | |
| 3 | Vinyl Chloride | 62 | 1.704 | 1.705 | (0.409) | 708017 | 50.0000 | 49.5047 | |
| 4 | Bromomethane | 94 | 1.923 | 1.923 | (0.461) | 348305 | 50.0000 | 50.8873 | |
| 5 | Chloroethane | 64 | 2.004 | 2.005 | (0.481) | 473353 | 50.0000 | 48.9920 | |
| 6 | Pentane | 41 | 2.092 | 2.092 | (0.502) | 429548 | 50.0000 | 48.1516 | |
| 7 | Trichlorofluoromethane | 101 | 2.097 | 2.103 | (0.503) | 967150 | 50.0000 | 49.3694 | |
| 8 | Dichlorofluoromethane | 67 | 2.124 | 2.125 | (0.509) | 977801 | 50.0000 | 53.9430 | |
| 9 | Ethyl Ether | 74 | 2.277 | 2.278 | (0.546) | 298493 | 50.0000 | 54.1514 | |
| 10 | 1,1-Dichloroethene | 61 | 2.414 | 2.409 | (0.579) | 575051 | 50.0000 | 52.2802 | |
| 11 | Freon 113 | 101 | 2.425 | 2.425 | (0.581) | 405953 | 50.0000 | 52.4723 | |
| 12 | Carbon Disulfide | 76 | 2.446 | 2.447 | (0.587) | 1276822 | 50.0000 | 53.8113 | |
| 13 | Iodomethane | 127 | 2.506 | 2.507 | (0.601) | 202377 | 50.0000 | 47.4853(M) | I |
| 14 | Acrolein | 56 | 2.599 | 2.600 | (0.623) | 464121 | 250.000 | 261.595(A) | |
| 15 | Isopropyl Alcohol | 45 | 2.654 | 2.654 | (0.636) | 143259 | 250.000 | 246.986(A) | |
| 16 | 3-Chloro-1-propene | 41 | 2.676 | 2.676 | (0.642) | 502818 | 50.0000 | 52.4523 | |
| 17 | Methylene Chloride | 84 | 2.741 | 2.741 | (0.657) | 478779 | 50.0000 | 53.2878 | |
| 18 | Acetone | 58 | 2.752 | 2.752 | (0.660) | 251793 | 250.000 | 252.945(A) | |
| 19 | Methyl acetate | 74 | 2.817 | 2.812 | (0.676) | 106383 | 50.0000 | 52.0435 | |
| 20 | trans-1,2-Dichloroethene | 61 | 2.828 | 2.829 | (0.678) | 585851 | 50.0000 | 54.3804 | |
| 21 | Hexane | 57 | 2.866 | 2.867 | (0.687) | 870351 | 50.0000 | 48.5594 | |

Data File: 2524062507.D
Report Date: 25-Jun-2024 19:32



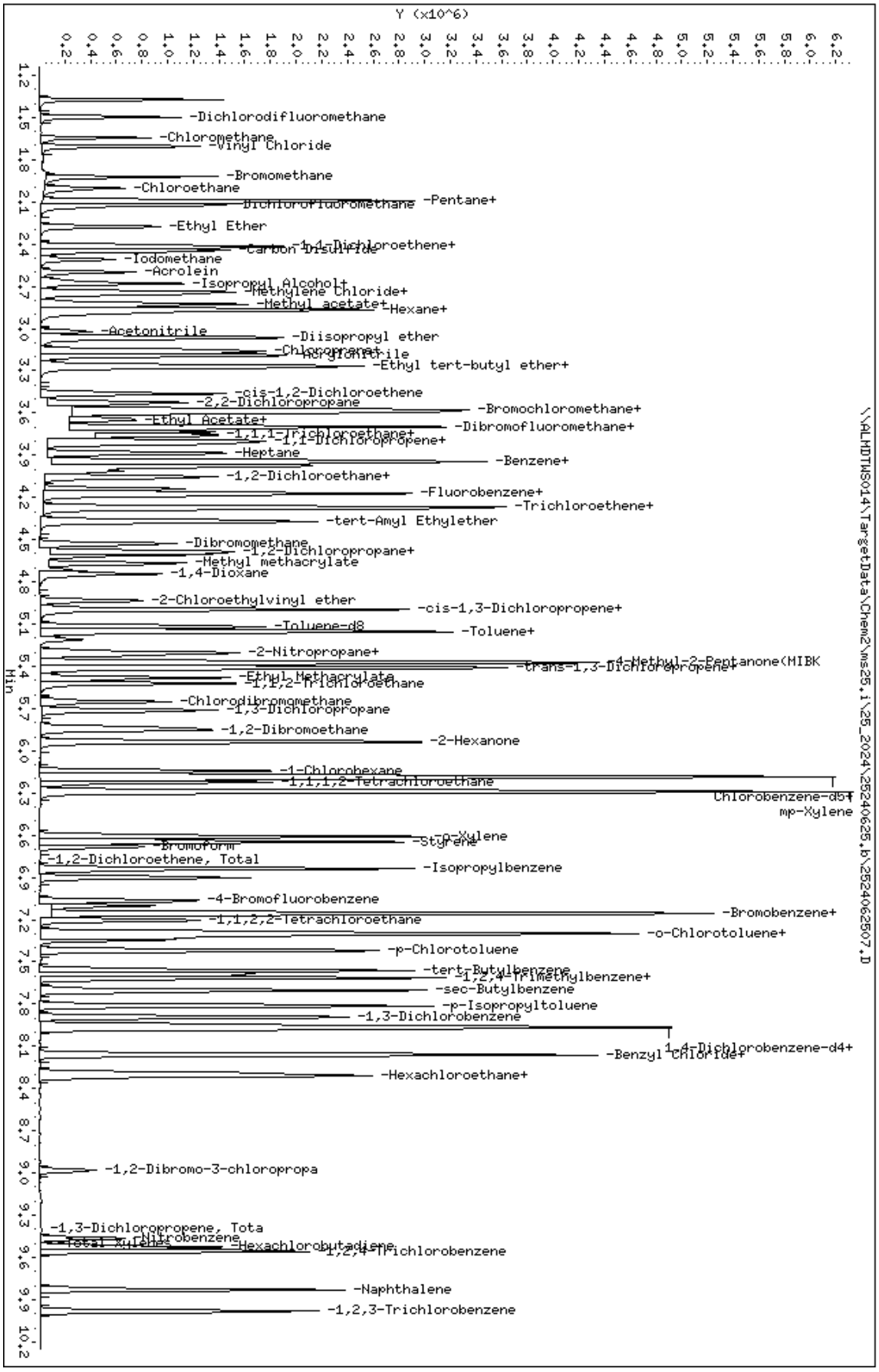
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | 2.872 | 2.872 | (0.689) | 1393184 | 50.0000 | 50.4055 | |
| | 23 tert.- Butyl Alcohol | 59 | 2.894 | 2.889 | (0.694) | 269513 | 250.000 | 271.210(A) | |
| | 24 Acetonitrile | 41 | 3.019 | 3.020 | (0.724) | 302780 | 250.000 | 272.006(AM) | I |
| | 25 Diisopropyl ether | 45 | 3.063 | 3.063 | (0.734) | 1308855 | 50.0000 | 54.7418 | |
| | 26 Chloroprene | 53 | 3.156 | 3.156 | (0.757) | 670182 | 50.0000 | 55.2871 | |
| | 27 1,1-Dichloroethane | 63 | 3.172 | 3.167 | (0.761) | 802466 | 50.0000 | 54.6742 | |
| | 28 Acrylonitrile | 53 | 3.194 | 3.194 | (0.766) | 1064988 | 250.000 | 278.611(AM) | MP |
| | 29 Ethyl tert-butyl ether | 59 | 3.265 | 3.265 | (0.783) | 1408293 | 50.0000 | 55.4575 | |
| | 30 n-Propanol | 41 | 3.265 | 3.260 | (0.783) | 237482 | 500.000 | 504.166(A) | |
| | 31 Vinyl Acetate | 86 | 3.276 | 3.276 | (0.785) | 126310 | 50.0000 | 50.4145 | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.461 | 3.462 | (0.830) | 591362 | 50.0000 | 54.1368 | |
| | 33 2,2-Dichloropropane | 77 | 3.527 | 3.522 | (0.846) | 621193 | 50.0000 | 53.1030 | |
| | 34 Bromochloromethane | 128 | 3.576 | 3.576 | (0.857) | 268442 | 50.0000 | 56.9861 | |
| | 35 Cyclohexane | 84 | 3.587 | 3.587 | (0.860) | 675442 | 50.0000 | 51.5333 | |
| | 36 Chloroform | 83 | 3.598 | 3.598 | (0.863) | 859409 | 50.0000 | 54.2399 | |
| | 37 Ethyl Acetate | 43 | 3.636 | 3.642 | (0.872) | 472909 | 50.0000 | 49.7769 | |
| | 38 Methyl acrylate | 55 | 3.652 | 3.653 | (0.876) | 476529 | 50.0000 | 54.1748 | |
| | 39 Carbon Tetrachloride | 117 | 3.701 | 3.696 | (0.887) | 556541 | 50.0000 | 47.7742(M) | MP |
| $ | 41 Dibromofluoromethane | 113 | 3.701 | 3.707 | (0.887) | 270997 | 30.0000 | 30.0385 | |
| | 40 Tetrahydrofuran | 42 | 3.696 | 3.696 | (0.886) | 715886 | 250.000 | 266.220(A) | |
| | 42 1,1,1-Trichloroethane | 97 | 3.734 | 3.740 | (0.895) | 676102 | 50.0000 | 54.8220 | |
| | 43 2-Butanone | 72 | 3.761 | 3.767 | (0.902) | 342451 | 250.000 | 263.431(AM) | MP |
| | 44 1,1-Dichloropropene | 75 | 3.800 | 3.800 | (0.911) | 631378 | 50.0000 | 54.1229 | |
| | 45 1-Chlorobutane | 41 | 3.821 | 3.822 | (0.916) | 375025 | 50.0000 | 49.9907(M) | I |
| | 46 Heptane | 71 | 3.887 | 3.887 | (0.932) | 333893 | 50.0000 | 49.2649 | |
| | 47 Benzene | 78 | 3.941 | 3.942 | (0.945) | 1864401 | 50.0000 | 51.9969 | |
| | 48 Propionitrile | 54 | 3.941 | 3.942 | (0.945) | 402346 | 250.000 | 277.963(A) | |
| | 49 Methacrylonitrile | 67 | 3.952 | 3.953 | (0.948) | 238979 | 50.0000 | 55.0754 | |
| | 50 tert-Amyl methyl ether | 73 | 3.974 | 3.975 | (0.953) | 1354755 | 50.0000 | 55.2670 | |
| | 54 Isobutyl alcohol | 42 | 3.991 | 3.980 | (0.957) | 96464 | 500.000 | 437.479(AM) | MP |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.012 | 4.013 | (0.962) | 275529 | 30.0000 | 28.9719(M) | MP |
| | 52 1,2-Dichloroethane | 62 | 4.056 | 4.056 | (0.973) | 601015 | 50.0000 | 53.3210 | |
| | 53 tert-Amyl Alcohol | 59 | 4.056 | 4.062 | (0.973) | 203990 | 250.000 | 267.550(A) | |
| * | 55 Fluorobenzene | 96 | 4.171 | 4.171 | (1.000) | 1143383 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.176 | 4.171 | (1.001) | 1061231 | 50.0000 | 47.8757 | |
| | 57 Trichloroethene | 95 | 4.269 | 4.269 | (1.024) | 484631 | 50.0000 | 53.4046 | |
| | 58 Methyl cyclohexane | 83 | 4.274 | 4.275 | (0.692) | 739867 | 50.0000 | 51.7277 | |
| | 59 tert-Amyl Ethylether | 59 | 4.367 | 4.373 | (1.047) | 1054026 | 50.0000 | 49.3327 | |
| | 60 Dibromomethane | 93 | 4.525 | 4.526 | (1.085) | 316536 | 50.0000 | 55.1767 | |
| | 61 1,2-Dichloropropane | 63 | 4.585 | 4.586 | (1.099) | 467339 | 50.0000 | 54.1545 | |
| | 62 Bromodichloromethane | 83 | 4.607 | 4.607 | (1.105) | 593498 | 50.0000 | 49.4511 | |
| | 63 Methyl methacrylate | 41 | 4.667 | 4.662 | (1.119) | 375084 | 50.0000 | 54.9186 | |
| | 64 1,4-Dioxane | 88 | 4.716 | 4.722 | (1.131) | 176416 | 1250.00 | 1320.58(A) | |
| | 65 2-Chloroethylvinyl ether | 63 | 4.934 | 4.935 | (1.183) | 300617 | 50.0000 | 47.6165 | |
| | 66 cis-1,3-Dichloropropene | 75 | 4.995 | 4.995 | (0.809) | 767185 | 50.0000 | 51.4196 | |
| | 67 Octane | 85 | 5.000 | 5.000 | (0.810) | 282195 | 50.0000 | 52.0345 | |
| $ | 68 Toluene-d8 | 98 | 5.115 | 5.120 | (0.829) | 1034239 | 30.0000 | 29.6246 | |
| | 69 Toluene | 92 | 5.153 | 5.153 | (0.835) | 1143510 | 50.0000 | 51.6780 | |
| | 70 Chloroacetonitrile | 75 | 5.207 | 5.208 | (0.844) | 159860 | 250.000 | 289.804(A) | |
| | 71 2-Nitropropane | 41 | 5.300 | 5.300 | (0.859) | 593939 | 250.000 | 244.811(A) | |
| | 72 1,1-Dichloro-2-Propanone | 63 | 5.316 | 5.317 | (0.861) | 56995 | 250.000 | 243.015(A) | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.371 | 5.371 | (0.870) | 2330999 | 250.000 | 266.689(A) | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.409 | 5.410 | (0.876) | 694418 | 50.0000 | 50.2673 | |
| | 74 Tetrachloroethene | 164 | 5.409 | 5.410 | (0.876) | 434379 | 50.0000 | 53.9104 | |

Data File: 2524062507.D Page 3
Report Date: 25-Jun-2024 19:32

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl Methacrylate | 69 | 5.480 | 5.481 | (0.888) | 687236 | 50.0000 | 51.5180 | |
| | 77 1,1,2-Trichloroethane | 83 | 5.524 | 5.524 | (0.895) | 377593 | 50.0000 | 55.5399(M) | I |
| | 78 Chlorodibromomethane | 129 | 5.649 | 5.650 | (0.915) | 487189 | 50.0000 | 50.5479 | |
| | 79 1,3-Dichloropropane | 76 | 5.715 | 5.710 | (0.926) | 754617 | 50.0000 | 56.1784 | |
| | 80 1,2-Dibromoethane | 107 | 5.829 | 5.830 | (0.944) | 464742 | 50.0000 | 51.3501 | |
| | 81 2-Hexanone | 43 | 5.933 | 5.933 | (0.961) | 1586898 | 250.000 | 264.643(A) | |
| | 82 1-Chlorohexane | 91 | 6.146 | 6.146 | (0.996) | 643857 | 50.0000 | 55.3101 | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.174 | (1.000) | 440953 | 30.0000 | | |
| | 84 Chlorobenzene | 112 | 6.184 | 6.184 | (1.002) | 1244553 | 50.0000 | 55.1920 | |
| | 85 Ethylbenzene | 106 | 6.189 | 6.190 | (1.003) | 661770 | 50.0000 | 50.1941 | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | 6.222 | 6.223 | (1.008) | 438151 | 50.0000 | 51.4526 | |
| | 87 mp-Xylene | 106 | 6.288 | 6.288 | (1.019) | 1603689 | 100.000 | 102.462 | |
| | 88 o-Xylene | 106 | 6.610 | 6.610 | (1.071) | 773279 | 50.0000 | 51.5309 | |
| | 89 Styrene | 104 | 6.648 | 6.648 | (0.836) | 1227060 | 50.0000 | 48.6117(M) | I |
| | 90 Bromoform | 173 | 6.681 | 6.686 | (0.840) | 330003 | 50.0000 | 46.3030 | |
| | 91 Isopropylbenzene | 105 | 6.839 | 6.839 | (0.860) | 1751429 | 50.0000 | 49.7675 | |
| M | 100 1,2-Dichloroethene, Total | 61 | | | | 1177213 | 100.000 | 108.517 | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 333940 | 30.0000 | 28.2793 | |
| | 93 Bromobenzene | 156 | 7.155 | 7.156 | (0.900) | 531635 | 50.0000 | 52.6787 | |
| | 94 n-Propylbenzene | 120 | 7.155 | 7.156 | (0.900) | 543408 | 50.0000 | 52.6568 | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | 7.204 | 7.205 | (0.906) | 552178 | 50.0000 | 55.0487 | |
| | 96 o-Chlorotoluene | 91 | 7.292 | 7.292 | (0.917) | 1435543 | 50.0000 | 52.8720 | |
| | 97 1,3,5-Trimethylbenzene | 105 | 7.303 | 7.303 | (0.918) | 1501540 | 50.0000 | 52.2803 | |
| | 98 1,2,3-Trichloropropane | 110 | 7.324 | 7.325 | (0.921) | 171874 | 50.0000 | 53.1264 | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | 7.346 | 7.341 | (0.924) | 149889 | 50.0000 | 48.7036(M) | MP |
| | 101 p-Chlorotoluene | 91 | 7.417 | 7.418 | (0.933) | 1318356 | 50.0000 | 53.6064 | |
| | 102 tert-Butylbenzene | 134 | 7.559 | 7.559 | (0.951) | 375749 | 50.0000 | 54.7011 | |
| | 103 Pentachloroethane | 117 | 7.586 | 7.581 | (0.954) | 332675 | 50.0000 | 48.2392(M) | MP |
| | 104 1,2,4-Trimethylbenzene | 105 | 7.614 | 7.614 | (0.957) | 1510193 | 50.0000 | 49.6560 | |
| | 105 sec-Butylbenzene | 105 | 7.701 | 7.707 | (0.968) | 1923591 | 50.0000 | 54.1902 | |
| | 106 p-Isopropyltoluene | 134 | 7.810 | 7.816 | (0.982) | 438683 | 50.0000 | 53.9663 | |
| | 107 1,3-Dichlorobenzene | 146 | 7.892 | 7.892 | (0.992) | 913731 | 50.0000 | 53.7418 | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 426848 | 30.0000 | | |
| | 109 1,4-Dichlorobenzene | 146 | 7.963 | 7.963 | (1.001) | 937340 | 50.0000 | 52.8905 | |
| | 110 Benzyl Chloride | 126 | 8.159 | 8.160 | (1.026) | 194577 | 50.0000 | 45.8459 | |
| | 111 n-Butylbenzene | 134 | 8.159 | 8.160 | (1.026) | 391628 | 50.0000 | 51.5539 | |
| | 112 Hexachloroethane | 117 | 8.290 | 8.285 | (1.043) | 284589 | 50.0000 | 46.7465 | |
| | 113 1,2-Dichlorobenzene | 146 | 8.312 | 8.311 | (1.045) | 869762 | 50.0000 | 53.7034 | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | 8.983 | 8.984 | (1.130) | 86909 | 50.0000 | 45.3439 | |
| | 115 Nitrobenzene | 77 | 9.463 | 9.464 | (1.190) | 289112 | 500.000 | 463.590(A) | |
| | 116 Hexachlorobutadiene | 225 | 9.529 | 9.524 | (1.198) | 257277 | 50.0000 | 48.0265 | |
| M | 120 1,3-Dichloropropene, Total | 75 | | | | 1461603 | 100.000 | 101.687 | |
| | 117 1,2,4-Trichlorobenzene | 180 | 9.556 | 9.556 | (1.202) | 580629 | 50.0000 | 54.1363 | |
| M | 121 Total Xylenes | 106 | | | | 2376968 | 150.000 | 153.993 | |
| | 118 Naphthalene | 128 | 9.829 | 9.829 | (1.236) | 1514181 | 50.0000 | 48.0426 | |
| | 119 1,2,3-Trichlorobenzene | 180 | 9.982 | 9.982 | (1.255) | 573042 | 50.0000 | 47.5666 | |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

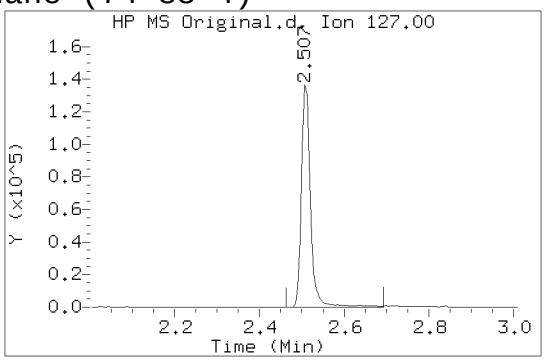

Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-Iodomethane
-Acrolein
-Methylene Chloride+
-Hexane+
-Acetonitrile
-Diisopropyl ether
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Dibromofluoromethane+
-Heptane
-Benzene+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-Ethyl Methacrylate
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-o-Xylene
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-1,1,2,2-Tetrachloroethane
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Nitrobenzene
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
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Date : 25-JUN-2024 12:24
Client ID:
Sample Info: 1237;;1;1;4;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: ILY
Column diameter: 0.25
Page 1

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062507.D
Inj Date : 25-JUN-2024 12:24
InstruID : ms25.i
LabSampID : 1237

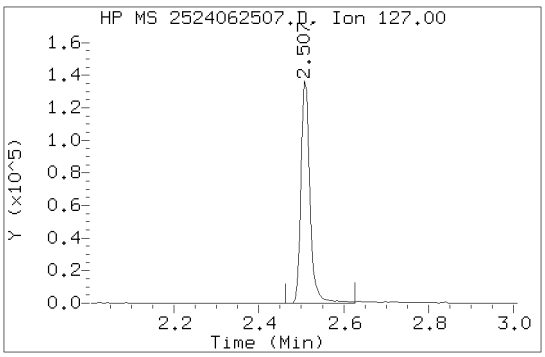
## Iodomethane (74-88-4)

Reason Code: I

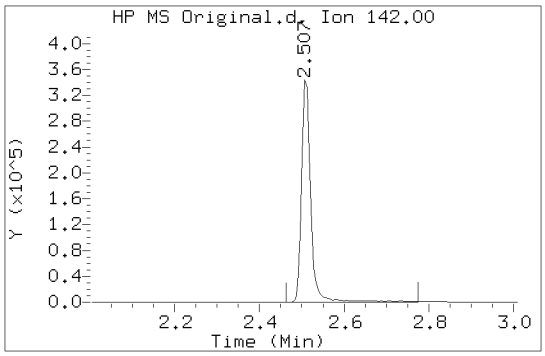
BEFORE
MASS
127
AREA
205476
HEIGHT
136512
25-Jun-2024
18:13



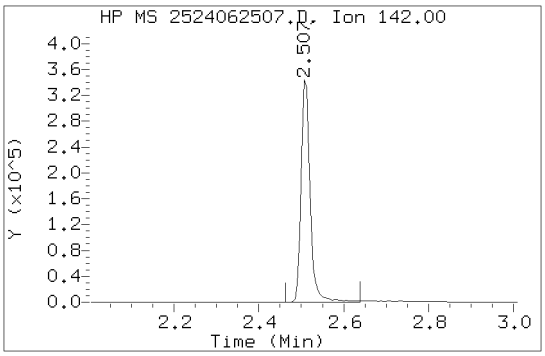

AFTER
MASS
127
AREA
202377
HEIGHT
136512
25-Jun-2024
19:31




BEFORE
MASS
142
AREA
523293
HEIGHT
343744
25-Jun-2024
18:13



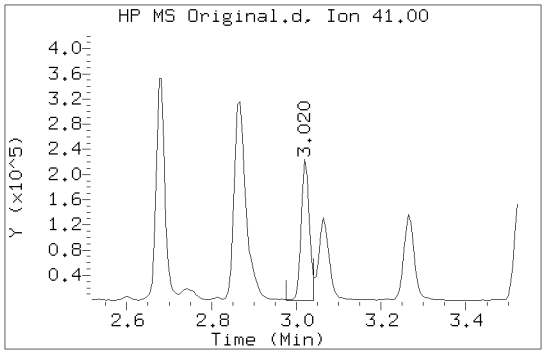

AFTER
MASS
142
AREA
511374
HEIGHT
343744
25-Jun-2024
19:31



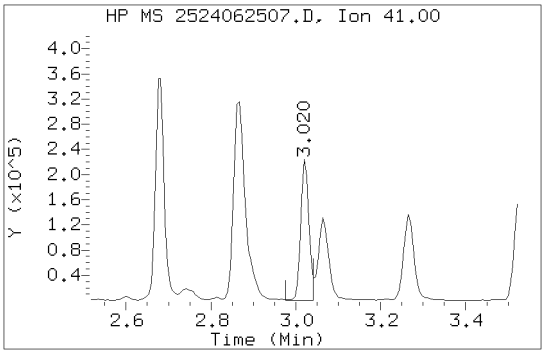

## Acetonitrile (75-05-8)

Reason Code: I

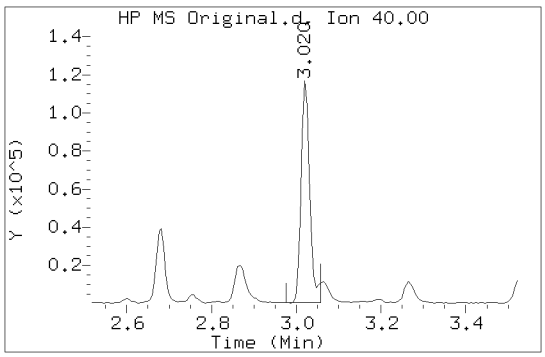
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MASS
41
AREA
302780
HEIGHT
223722
25-Jun-2024
18:13



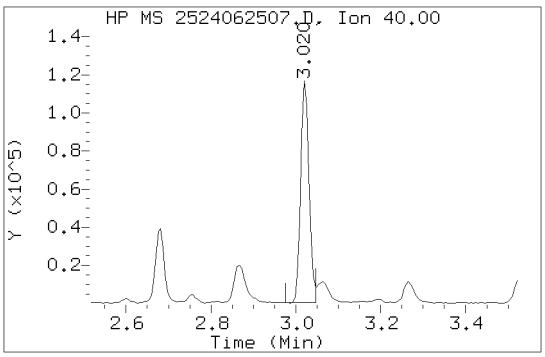

AFTER
MASS
41
AREA
302780
HEIGHT
223722
25-Jun-2024
19:31




BEFORE
MASS
40
AREA
166344
HEIGHT
116286
25-Jun-2024
18:13




AFTER
MASS
40
AREA
159980
HEIGHT
116286
25-Jun-2024
19:31

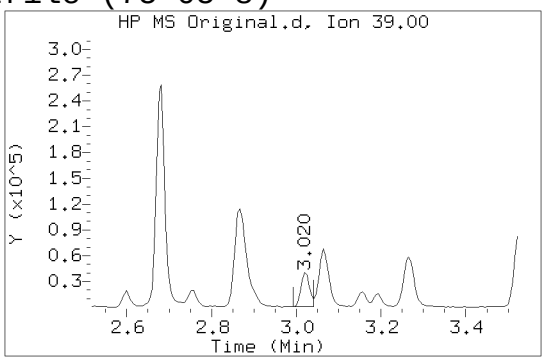


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InstruID : ms25.i
LabSampID : 1237

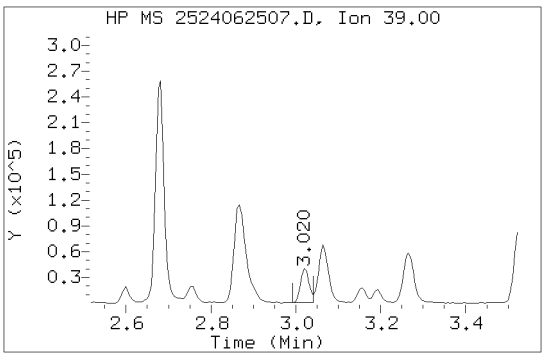
## Acetonitrile (75-05-8)

Reason Code: I

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39
AREA
57512
HEIGHT
40087
25-Jun-2024
18:13



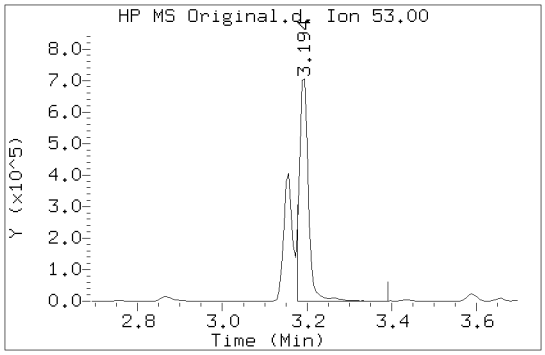

AFTER
MASS
39
AREA
57512
HEIGHT
40087
25-Jun-2024
19:31



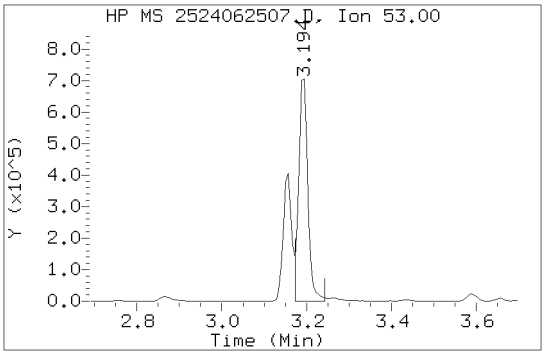

## Acrylonitrile (107-13-1)

Reason Code: MP

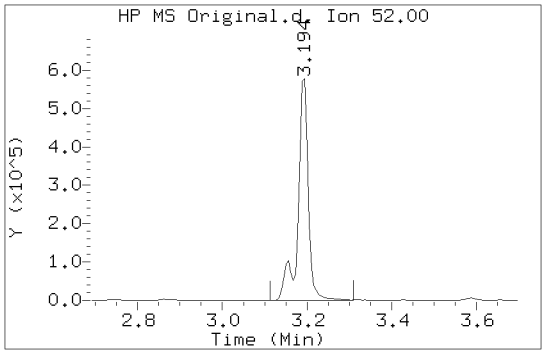
BEFORE
MASS
53
AREA
1045829
HEIGHT
704743
25-Jun-2024
18:13



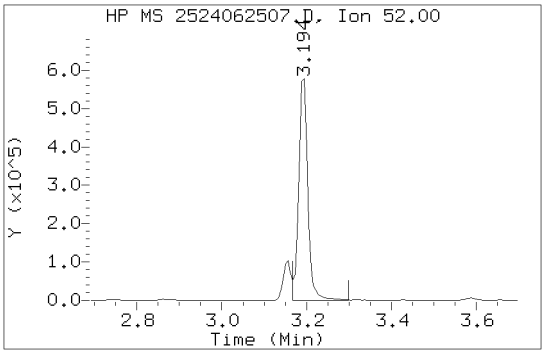

AFTER
MASS
53
AREA
1064988
HEIGHT
704002
25-Jun-2024
19:31



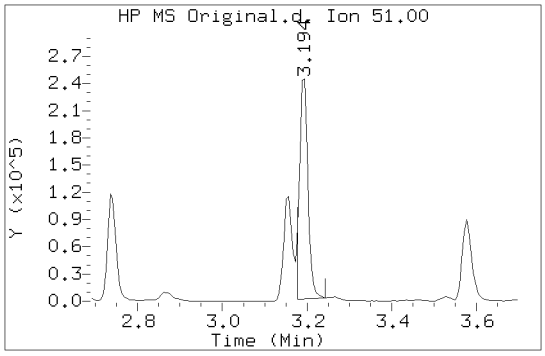

BEFORE
MASS
52
AREA
989130
HEIGHT
577664
25-Jun-2024
18:13



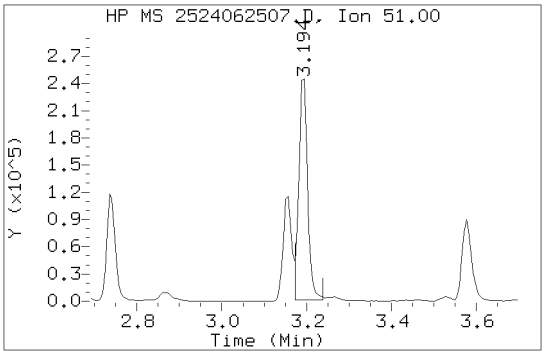

AFTER
MASS
52
AREA
866008
HEIGHT
577577
25-Jun-2024
19:31




BEFORE
MASS
51
AREA
335909
HEIGHT
242661
25-Jun-2024
18:13




AFTER
MASS
51
AREA
355694
HEIGHT
243801
25-Jun-2024
19:31



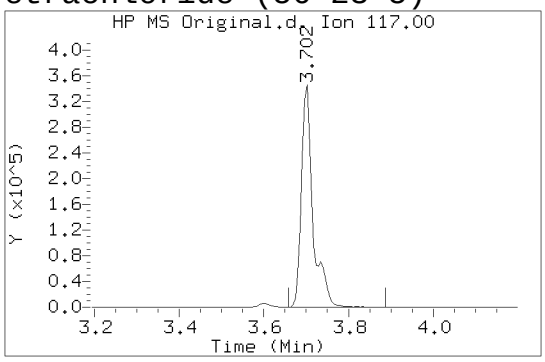
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Inj Date : 25-JUN-2024 12:24
InstruID : ms25.i
LabSampID : 1237

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

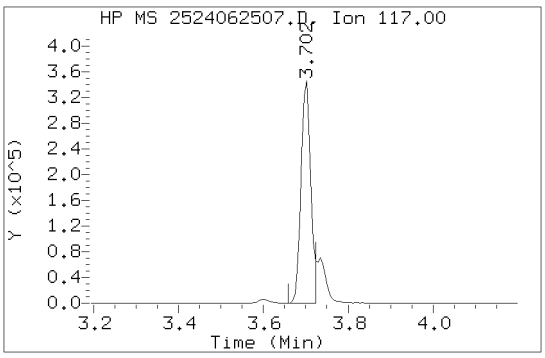
**BEFORE**

MASS
117
AREA
658697
HEIGHT
345856
25-Jun-2024
18:13



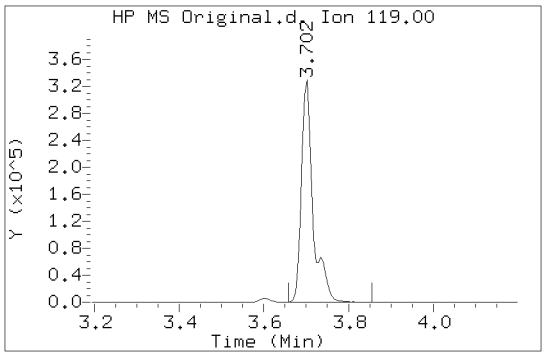

**AFTER**

MASS
117
AREA
556541
HEIGHT
345856
25-Jun-2024
19:31



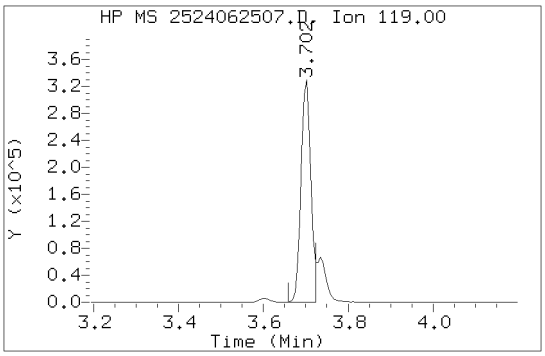

**BEFORE**

MASS
119
AREA
632625
HEIGHT
329472
25-Jun-2024
18:13



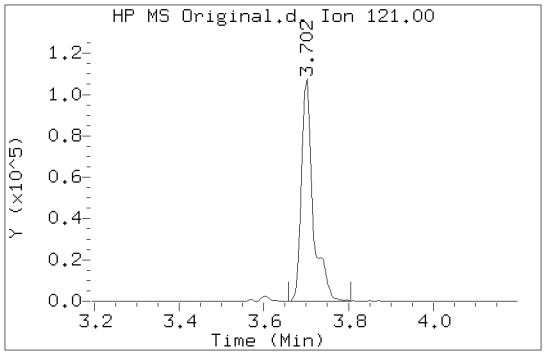

**AFTER**

MASS
119
AREA
535486
HEIGHT
329472
25-Jun-2024
19:31



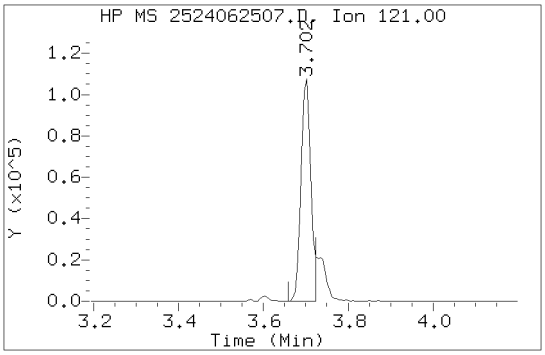

**BEFORE**

MASS
121
AREA
207030
HEIGHT
107576
25-Jun-2024
18:13




**AFTER**

MASS
121
AREA
175053
HEIGHT
107576
25-Jun-2024
19:31

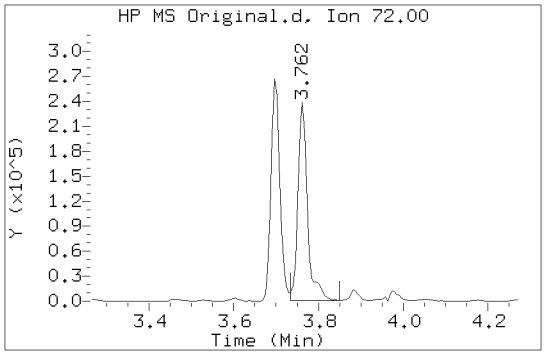



## 2-Butanone (78-93-3)

Reason Code: MP

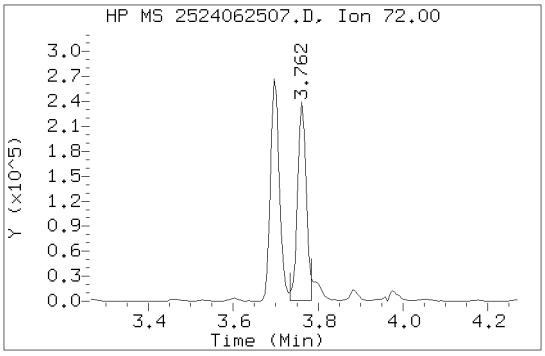
**BEFORE**

MASS
72
AREA
377066
HEIGHT
239051
25-Jun-2024
18:13




**AFTER**

MASS
72
AREA
342451
HEIGHT
239051
25-Jun-2024
19:31

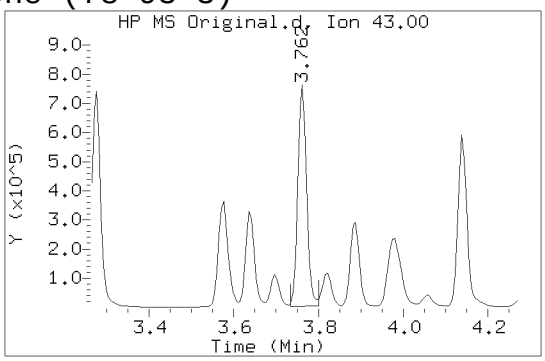


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LabSampID : 1237

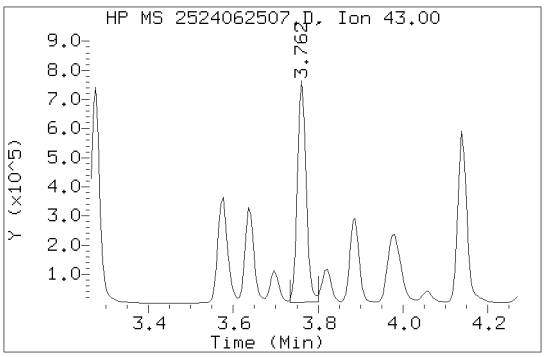
## 2-Butanone (78-93-3)

Reason Code: MP

BEFORE
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AREA
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HEIGHT
759909
25-Jun-2024
18:13



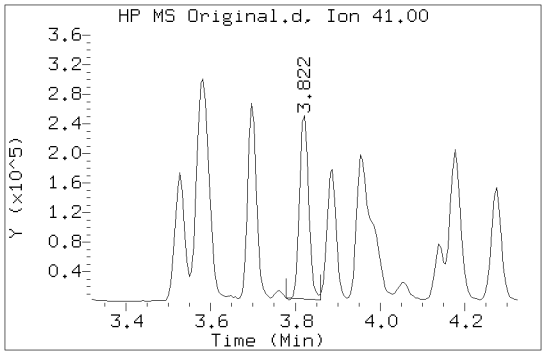

AFTER
MASS
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AREA
1100991
HEIGHT
759909
25-Jun-2024
19:31



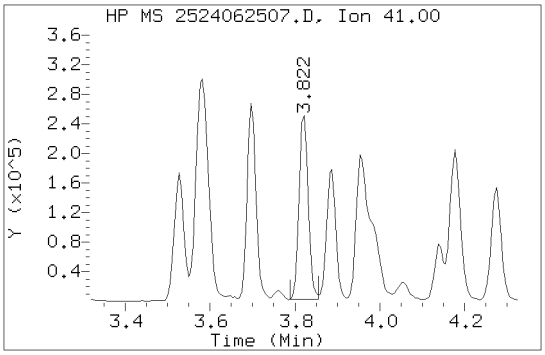

## 1-Chlorobutane (109-69-3)

Reason Code: I

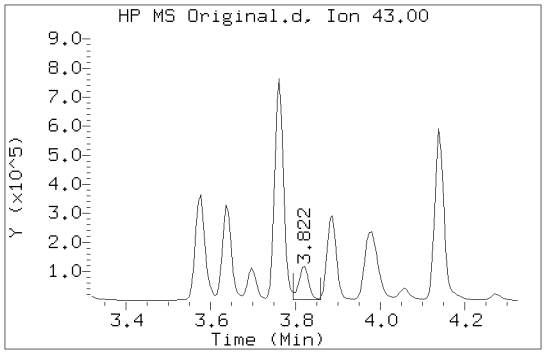
BEFORE
MASS
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AREA
374876
HEIGHT
248504
25-Jun-2024
18:13



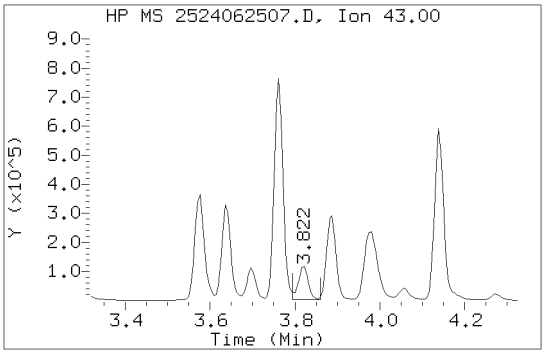

AFTER
MASS
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AREA
375025
HEIGHT
248948
25-Jun-2024
19:31



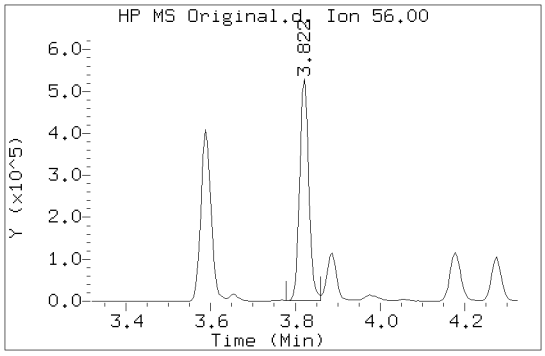

BEFORE
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AREA
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HEIGHT
115255
25-Jun-2024
18:13



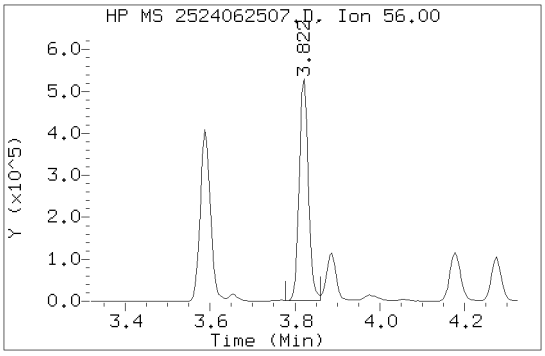

AFTER
MASS
43
AREA
195215
HEIGHT
115255
25-Jun-2024
19:31




BEFORE
MASS
56
AREA
796493
HEIGHT
529078
25-Jun-2024
18:13




AFTER
MASS
56
AREA
796493
HEIGHT
529078
25-Jun-2024
19:31

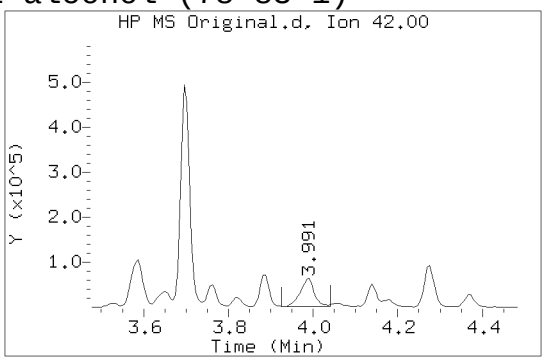


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Inj Date : 25-JUN-2024 12:24
InstruID : ms25.i
LabSampID : 1237

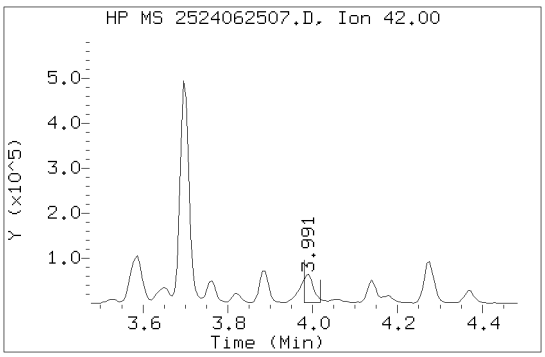
## Isobutyl alcohol (78-83-1)

Reason Code: MP

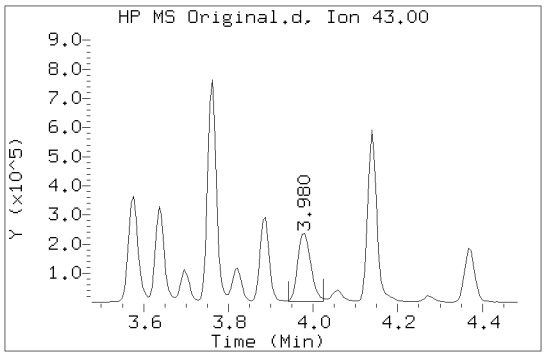
**BEFORE**
MASS
42
AREA
146510
HEIGHT
62573
25-Jun-2024
18:13



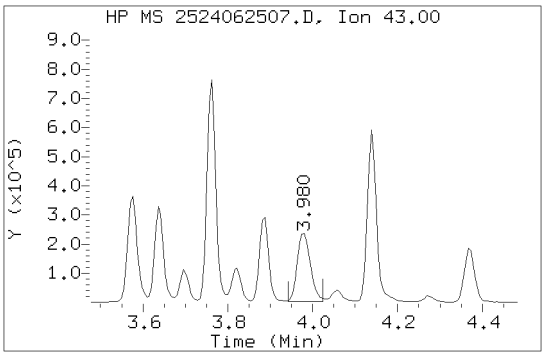

**AFTER**
MASS
42
AREA
96464
HEIGHT
61948
25-Jun-2024
19:31



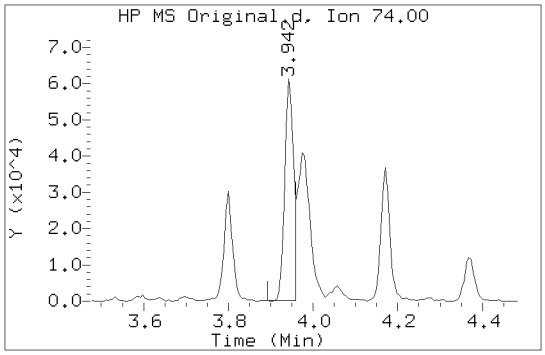

**BEFORE**
MASS
43
AREA
513535
HEIGHT
235532
25-Jun-2024
18:13



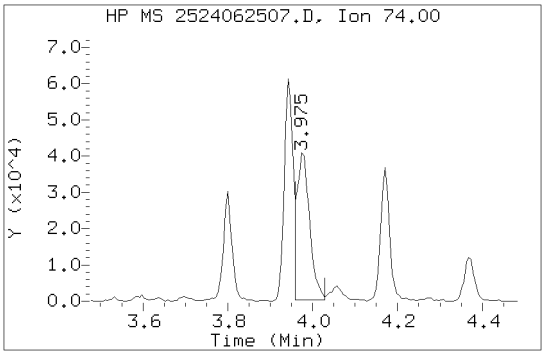

**AFTER**
MASS
43
AREA
513535
HEIGHT
235532
25-Jun-2024
19:31




**BEFORE**
MASS
74
AREA
89775
HEIGHT
61104
25-Jun-2024
18:13



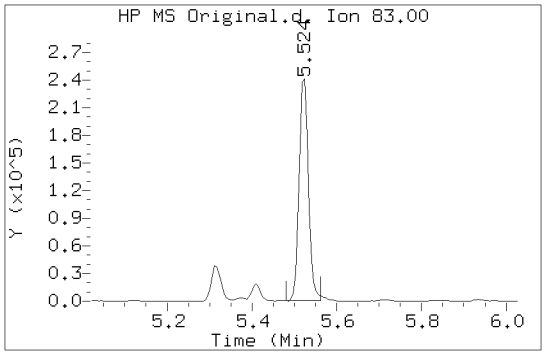

**AFTER**
MASS
74
AREA
88150
HEIGHT
40518
25-Jun-2024
19:31



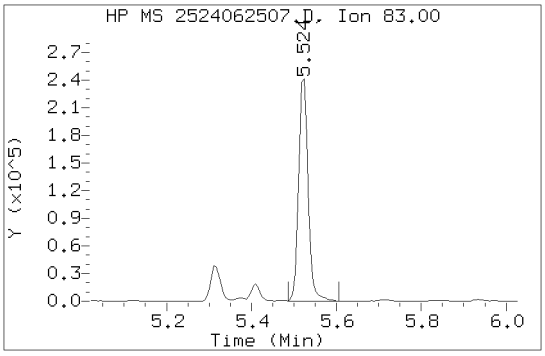

## 1,1,2-Trichloroethane (79-00-5)

Reason Code: I

**BEFORE**
MASS
83
AREA
370462
HEIGHT
240602
25-Jun-2024
18:13




**AFTER**
MASS
83
AREA
377593
HEIGHT
241170
25-Jun-2024
19:31

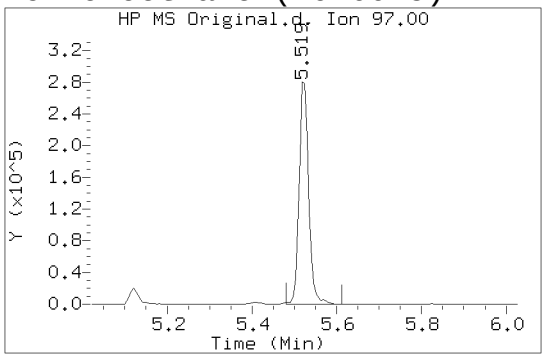


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Inj Date : 25-JUN-2024 12:24
InstruID : ms25.i
LabSampID : 1237

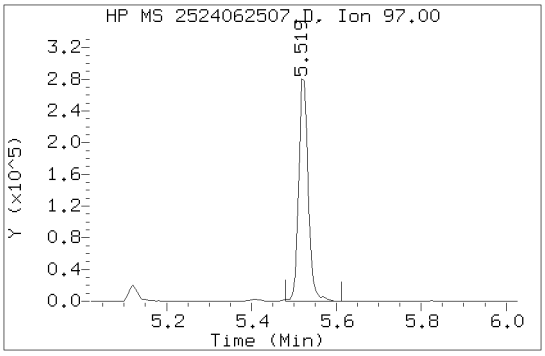
## 1,1,2-Trichloroethane (79-00-5)

Reason Code: I

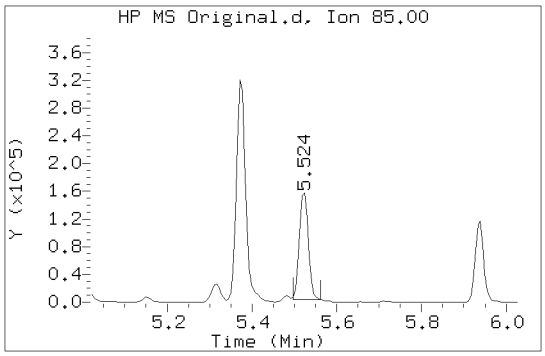
BEFORE
MASS
97
AREA
440302
HEIGHT
280320
25-Jun-2024
18:13



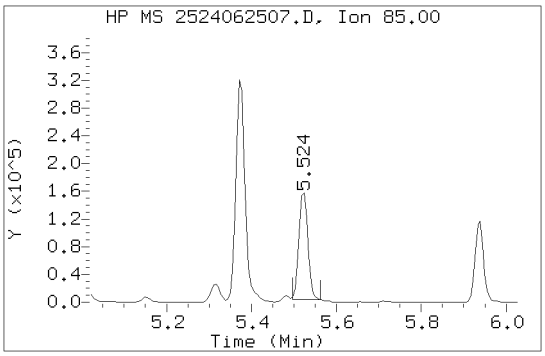

AFTER
MASS
97
AREA
440302
HEIGHT
280320
25-Jun-2024
19:31




BEFORE
MASS
85
AREA
231090
HEIGHT
154322
25-Jun-2024
18:13



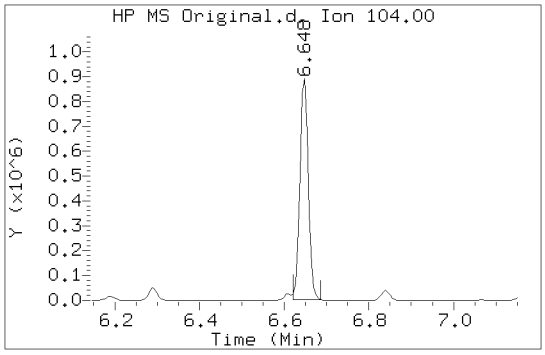

AFTER
MASS
85
AREA
231090
HEIGHT
154322
25-Jun-2024
19:31



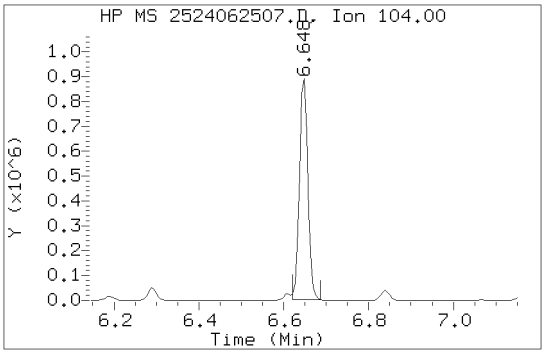

## Styrene (100-42-5)

Reason Code: I

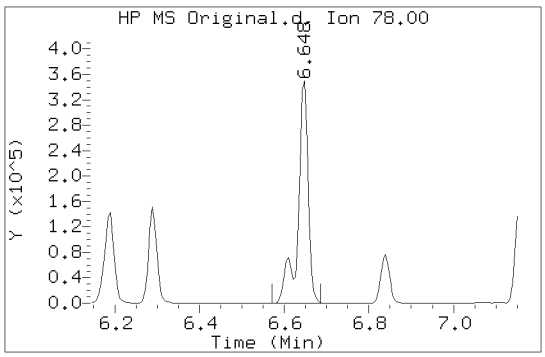
BEFORE
MASS
104
AREA
1227060
HEIGHT
888636
25-Jun-2024
18:13



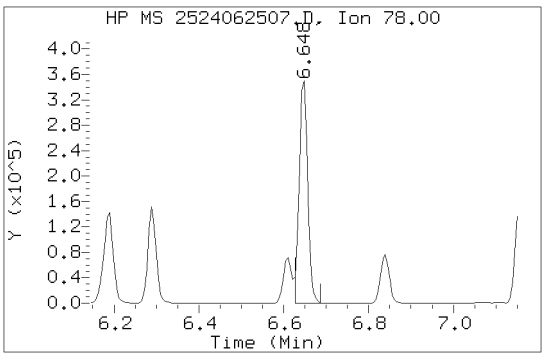

AFTER
MASS
104
AREA
1227060
HEIGHT
888636
25-Jun-2024
19:31




BEFORE
MASS
78
AREA
590646
HEIGHT
349696
25-Jun-2024
18:13




AFTER
MASS
78
AREA
490491
HEIGHT
349493
25-Jun-2024
19:31

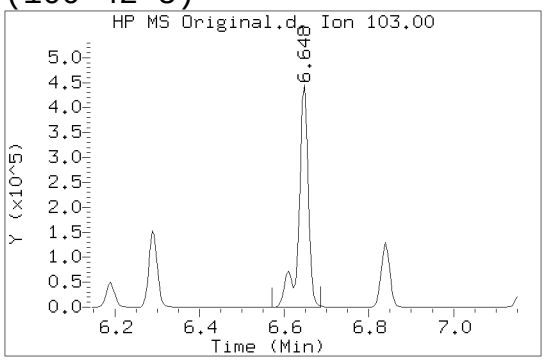


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Inj Date : 25-JUN-2024 12:24
InstruID : ms25.i
LabSampID : 1237

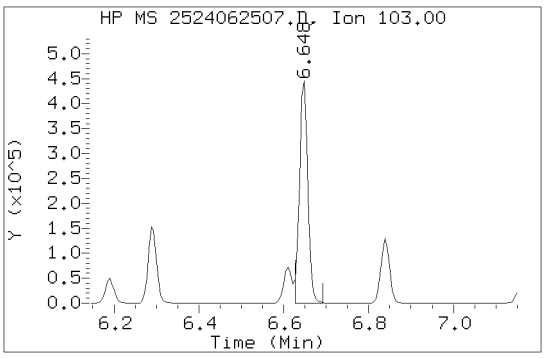
## Styrene (100-42-5)

Reason Code: I

BEFORE
MASS
103
AREA
706899
HEIGHT
445440
25-Jun-2024
18:13



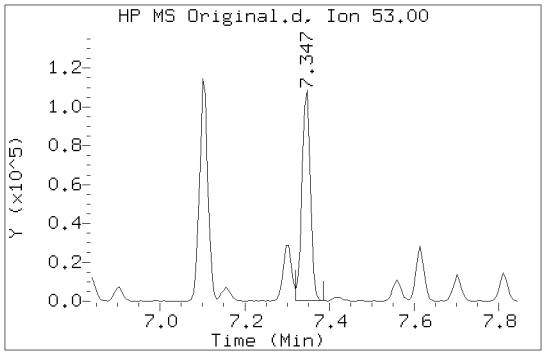

AFTER
MASS
103
AREA
608627
HEIGHT
445294
25-Jun-2024
19:31



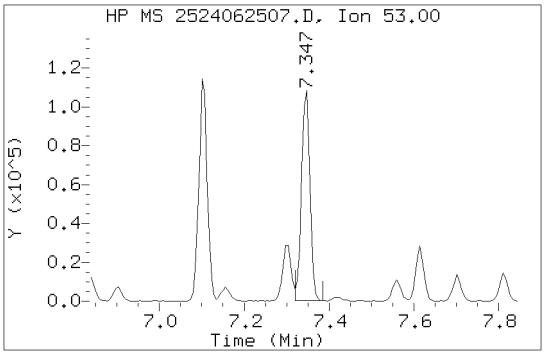

## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

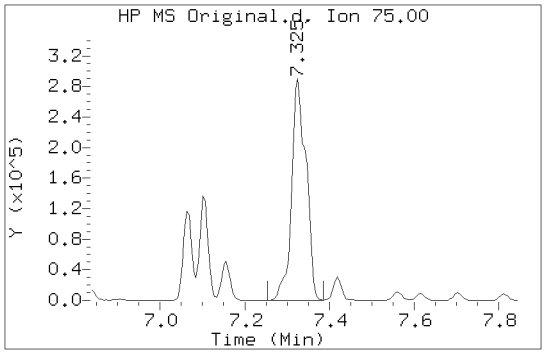
BEFORE
MASS
53
AREA
149889
HEIGHT
108236
25-Jun-2024
18:13



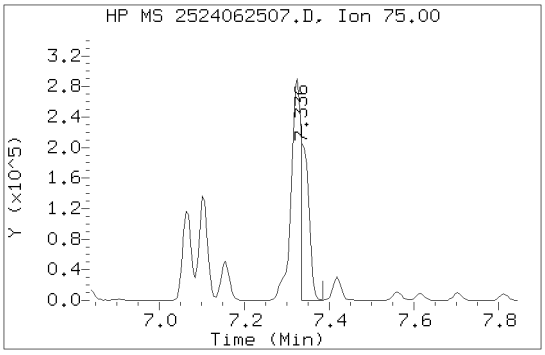

AFTER
MASS
53
AREA
149889
HEIGHT
108236
25-Jun-2024
19:31



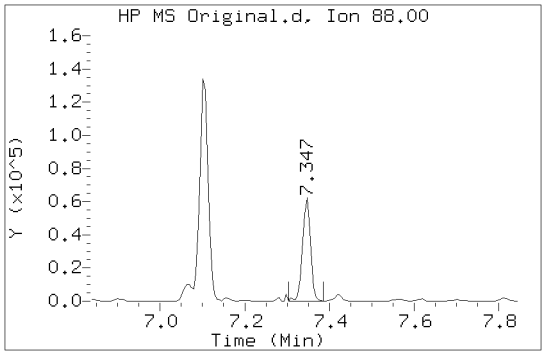

BEFORE
MASS
75
AREA
689042
HEIGHT
290112
25-Jun-2024
18:13



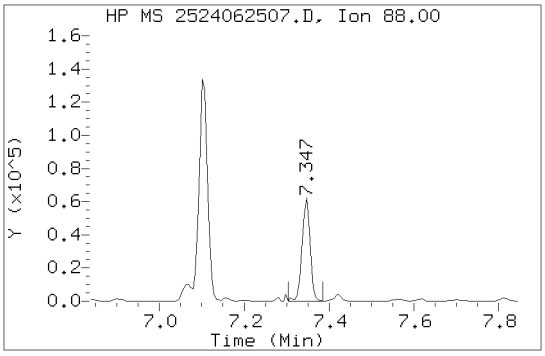

AFTER
MASS
75
AREA
264959
HEIGHT
205766
25-Jun-2024
19:31




BEFORE
MASS
88
AREA
82132
HEIGHT
62280
25-Jun-2024
18:13




AFTER
MASS
88
AREA
82132
HEIGHT
62280
25-Jun-2024
19:31

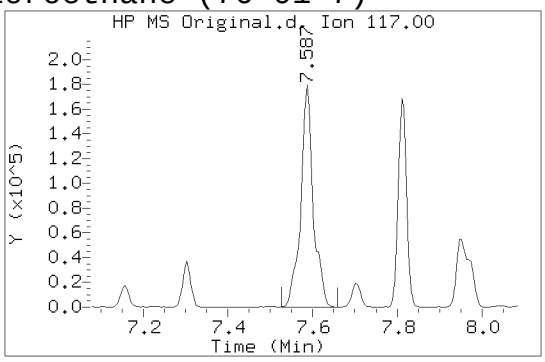


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LabSampID : 1237

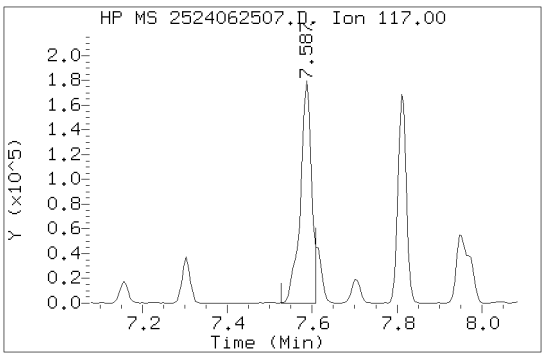
## Pentachloroethane (76-01-7)

Reason Code: MP

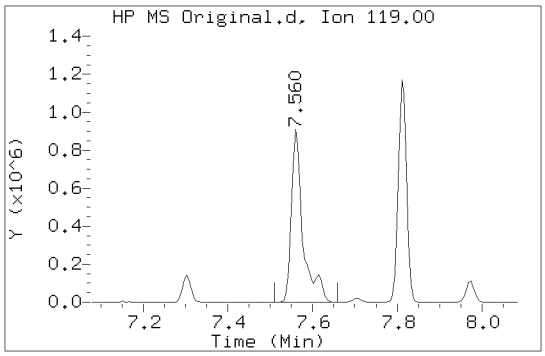
BEFORE
MASS
117
AREA
368716
HEIGHT
179648
25-Jun-2024
18:13



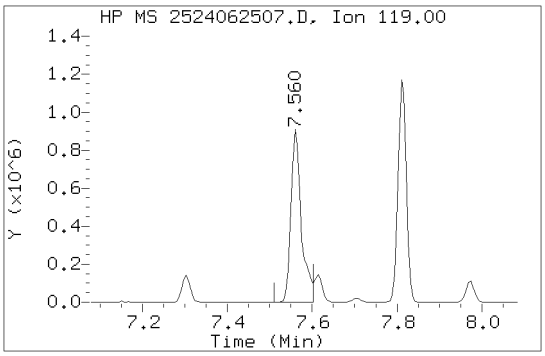

AFTER
MASS
117
AREA
332675
HEIGHT
179648
25-Jun-2024
19:31



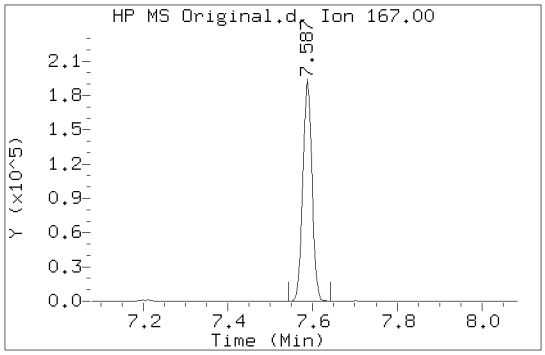

BEFORE
MASS
119
AREA
1737584
HEIGHT
911232
25-Jun-2024
18:13



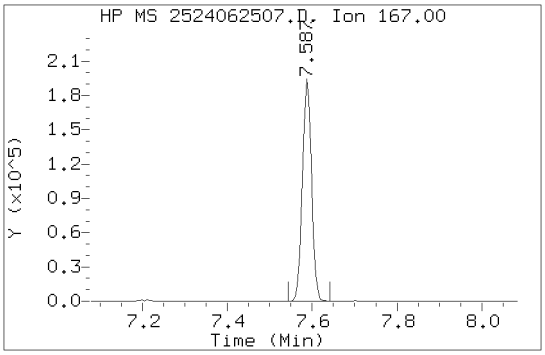

AFTER
MASS
119
AREA
1572296
HEIGHT
911232
25-Jun-2024
19:31




BEFORE
MASS
167
AREA
291176
HEIGHT
194496
25-Jun-2024
18:13



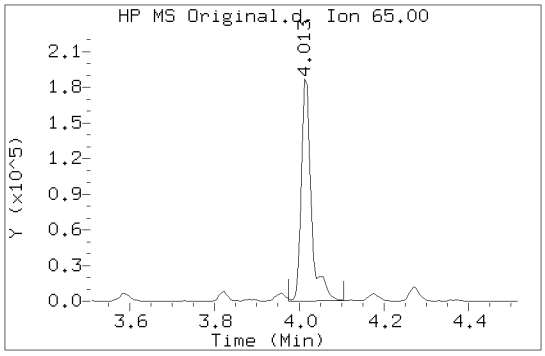

AFTER
MASS
167
AREA
291176
HEIGHT
194496
25-Jun-2024
19:31



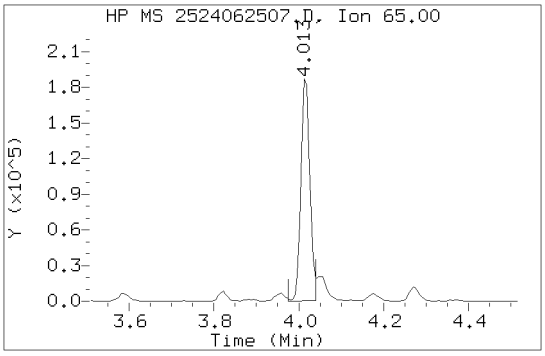

## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

BEFORE
MASS
65
AREA
306387
HEIGHT
186600
25-Jun-2024
18:13




AFTER
MASS
65
AREA
275529
HEIGHT
186601
25-Jun-2024
19:31

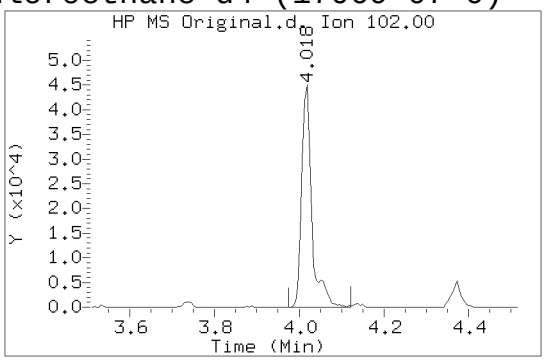


Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062507.D
Inj Date : 25-JUN-2024 12:24
InstruID : ms25.i
LabSampID : 1237

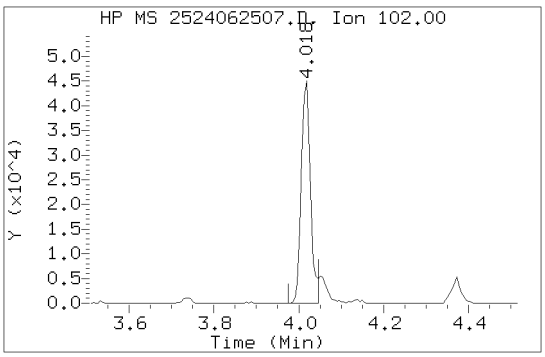
## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

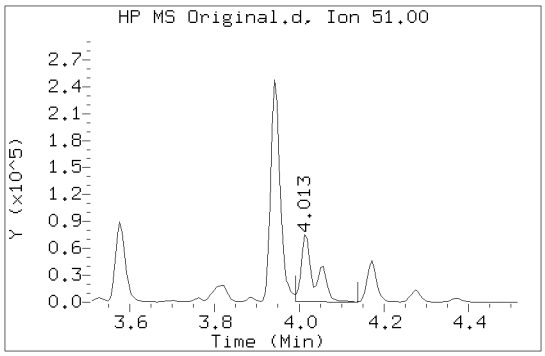
BEFORE
MASS
102
AREA
75637
HEIGHT
45032
25-Jun-2024
18:13



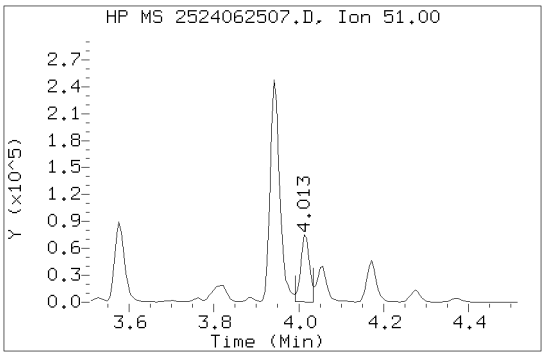

AFTER
MASS
102
AREA
68280
HEIGHT
45032
25-Jun-2024
19:31




BEFORE
MASS
51
AREA
175476
HEIGHT
75165
25-Jun-2024
18:13




AFTER
MASS
51
AREA
110484
HEIGHT
75164
25-Jun-2024
19:31



# UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406250
Inj Date: 25-JUN-2024 12:24
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062508.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062508.D
Lab Smp Id: 1238
Inj Date : 25-JUN-2024 12:45
Operator : ILY Inst ID: ms25.i
Smp Info : 1238;;1;1;5;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\25-8260b09.m
Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.497 | 1.497 | (0.359) | 1280711 | 100.000 | 108.035 | |
| 2 Chloromethane | 50 | 1.644 | 1.645 | (0.394) | 1078871 | 100.000 | 104.339 | |
| 3 Vinyl Chloride | 62 | 1.704 | 1.705 | (0.409) | 1417886 | 100.000 | 105.803 | |
| 4 Bromomethane | 94 | 1.922 | 1.923 | (0.461) | 683038 | 100.000 | 106.980 | |
| 5 Chloroethane | 64 | 2.004 | 2.005 | (0.481) | 939865 | 100.000 | 104.159 | |
| 6 Pentane | 41 | 2.091 | 2.092 | (0.502) | 877950 | 100.000 | 106.282 | |
| 7 Trichlorofluoromethane | 101 | 2.097 | 2.103 | (0.503) | 1936633 | 100.000 | 105.503 | |
| 8 Dichlorofluoromethane | 67 | 2.124 | 2.125 | (0.509) | 1909414 | 100.000 | 112.418 | |
| 9 Ethyl Ether | 74 | 2.277 | 2.278 | (0.546) | 577826 | 100.000 | 111.873 | |
| 10 1,1-Dichloroethene | 61 | 2.413 | 2.409 | (0.579) | 1162374 | 100.000 | 112.779 | |
| 11 Freon 113 | 101 | 2.424 | 2.425 | (0.581) | 828017 | 100.000 | 114.221 | |
| 12 Carbon Disulfide | 76 | 2.446 | 2.447 | (0.587) | 2554462 | 100.000 | 114.893 | |
| 13 Iodomethane | 127 | 2.512 | 2.507 | (0.602) | 423659 | 100.000 | 105.457(M) | MP |
| 14 Acrolein | 56 | 2.599 | 2.600 | (0.623) | 917167 | 500.000 | 551.695(A) | |
| 15 Isopropyl Alcohol | 45 | 2.653 | 2.654 | (0.636) | 289391 | 500.000 | 536.134(A) | |
| 16 3-Chloro-1-propene | 41 | 2.681 | 2.676 | (0.643) | 973704 | 100.000 | 108.215 | |
| 17 Methylene Chloride | 84 | 2.741 | 2.741 | (0.657) | 917372 | 100.000 | 108.966 | |
| 18 Acetone | 58 | 2.757 | 2.752 | (0.661) | 490337 | 500.000 | 525.690(A) | |
| 19 Methyl acetate | 74 | 2.812 | 2.812 | (0.674) | 195422 | 100.000 | 102.434 | |
| 20 trans-1,2-Dichloroethene | 61 | 2.828 | 2.829 | (0.678) | 1142895 | 100.000 | 113.218 | |
| 21 Hexane | 57 | 2.866 | 2.867 | (0.687) | 1762469 | 100.000 | 105.284 | |

Data File: 2524062508.D
Report Date: 25-Jun-2024 19:32



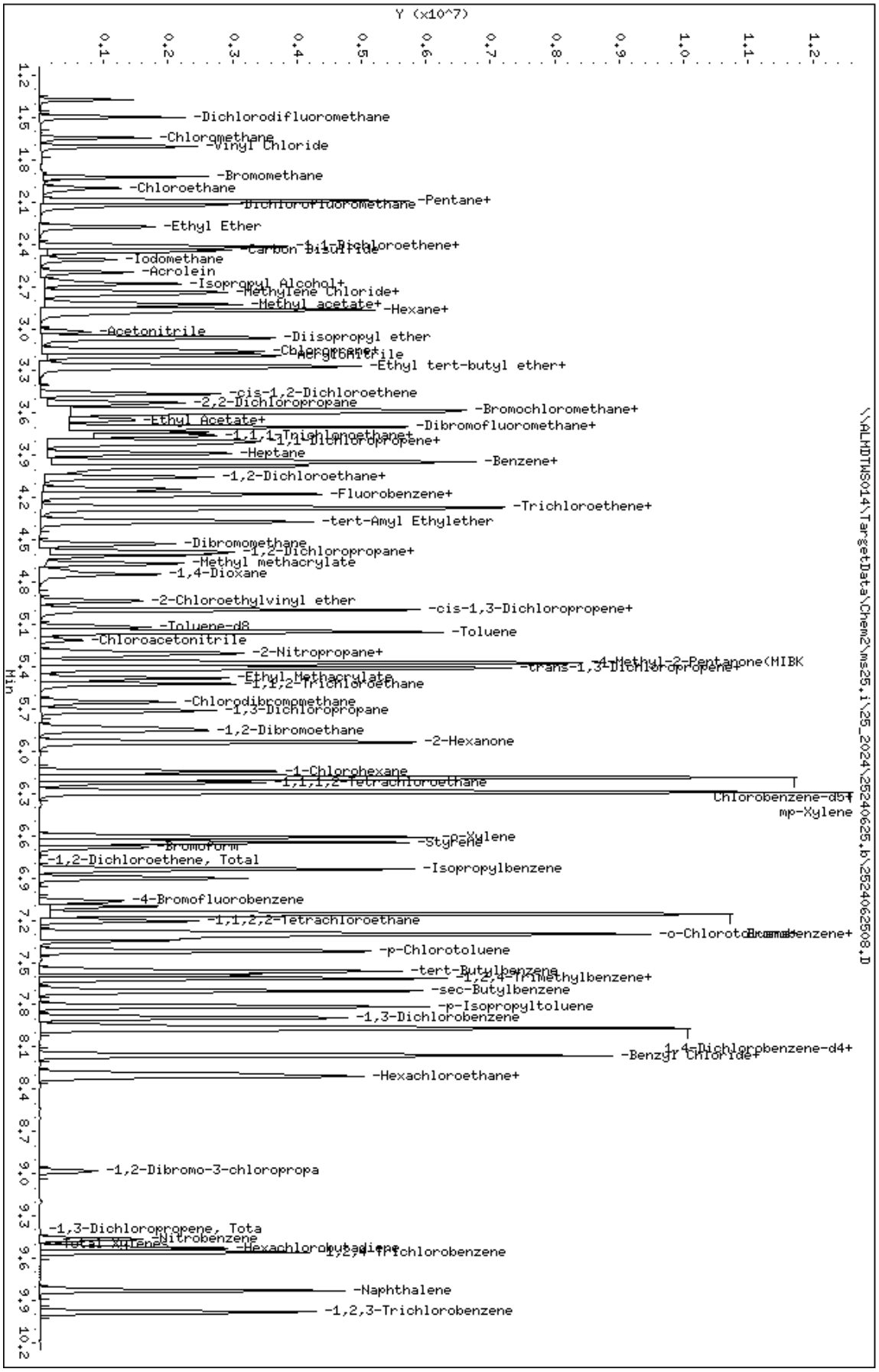
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | 2.872 | 2.872 | (0.689) | 2707334 | 100.000 | 104.288 | |
| | 23 tert.- Butyl Alcohol | 59 | 2.899 | 2.889 | (0.695) | 531352 | 500.000 | 570.639(A) | |
| | 24 Acetonitrile | 41 | 3.019 | 3.020 | (0.724) | 586835 | 500.000 | 562.628(A) | |
| | 25 Diisopropyl ether | 45 | 3.063 | 3.063 | (0.734) | 2528853 | 100.000 | 112.877 | |
| | 26 Chloroprene | 53 | 3.155 | 3.156 | (0.757) | 1314924 | 100.000 | 115.767 | |
| | 27 1,1-Dichloroethane | 63 | 3.172 | 3.167 | (0.761) | 1557064 | 100.000 | 113.218 | |
| | 28 Acrylonitrile | 53 | 3.194 | 3.194 | (0.766) | 2086695 | 500.000 | 582.594(AM) | MP |
| | 29 Ethyl tert-butyl ether | 59 | 3.265 | 3.265 | (0.783) | 2763916 | 100.000 | 116.157 | |
| | 30 n-Propanol | 41 | 3.265 | 3.260 | (0.783) | 457445 | 1000.00 | 1036.42(A) | |
| | 31 Vinyl Acetate | 86 | 3.275 | 3.276 | (0.785) | 244750 | 100.000 | 103.846 | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.461 | 3.462 | (0.830) | 1151450 | 100.000 | 112.496 | |
| | 33 2,2-Dichloropropane | 77 | 3.526 | 3.522 | (0.846) | 1243832 | 100.000 | 113.477 | |
| | 34 Bromochloromethane | 128 | 3.576 | 3.576 | (0.857) | 505828 | 100.000 | 114.597 | |
| | 35 Cyclohexane | 84 | 3.586 | 3.587 | (0.860) | 1388288 | 100.000 | 113.040 | |
| | 36 Chloroform | 83 | 3.597 | 3.598 | (0.863) | 1699897 | 100.000 | 114.497 | |
| | 37 Ethyl Acetate | 43 | 3.636 | 3.642 | (0.872) | 938737 | 100.000 | 105.546 | |
| | 38 Methyl acrylate | 55 | 3.652 | 3.653 | (0.876) | 947622 | 100.000 | 114.973 | |
| | 39 Carbon Tetrachloride | 117 | 3.701 | 3.696 | (0.887) | 1141242 | 100.000 | 104.056(M) | MP |
| $ | 41 Dibromofluoromethane | 113 | 3.706 | 3.707 | (0.889) | 259811 | 30.0000 | 30.7343 | |
| | 40 Tetrahydrofuran | 42 | 3.696 | 3.696 | (0.886) | 1387430 | 500.000 | 550.631(A) | |
| | 42 1,1,1-Trichloroethane | 97 | 3.734 | 3.740 | (0.895) | 1344421 | 100.000 | 116.341 | |
| | 43 2-Butanone | 72 | 3.761 | 3.767 | (0.902) | 680917 | 500.000 | 559.005(AM) | MP |
| | 44 1,1-Dichloropropene | 75 | 3.799 | 3.800 | (0.911) | 1236081 | 100.000 | 113.082 | |
| | 45 1-Chlorobutane | 41 | 3.821 | 3.822 | (0.916) | 750558 | 100.000 | 106.774(M) | I |
| | 46 Heptane | 71 | 3.887 | 3.887 | (0.932) | 692684 | 100.000 | 109.073 | |
| | 47 Benzene | 78 | 3.941 | 3.942 | (0.945) | 3618340 | 100.000 | 107.696 | |
| | 48 Propionitrile | 54 | 3.941 | 3.942 | (0.945) | 774353 | 500.000 | 570.925(A) | |
| | 49 Methacrylonitrile | 67 | 3.952 | 3.953 | (0.948) | 465553 | 100.000 | 114.504 | |
| | 50 tert-Amyl methyl ether | 73 | 3.974 | 3.975 | (0.953) | 2638153 | 100.000 | 114.857 | |
| | 54 Isobutyl alcohol | 42 | 3.990 | 3.980 | (0.957) | 211992 | 1000.00 | 1020.63(AQM) | MP |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.012 | 4.013 | (0.962) | 268195 | 30.0000 | 30.0964(M) | MP |
| | 52 1,2-Dichloroethane | 62 | 4.056 | 4.056 | (0.973) | 1135084 | 100.000 | 107.472 | |
| | 53 tert-Amyl Alcohol | 59 | 4.056 | 4.062 | (0.973) | 401168 | 500.000 | 561.534(A) | |
| * | 55 Fluorobenzene | 96 | 4.170 | 4.171 | (1.000) | 1071368 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.176 | 4.171 | (1.001) | 2168082 | 100.000 | 106.165 | |
| | 57 Trichloroethene | 95 | 4.268 | 4.269 | (1.024) | 928864 | 100.000 | 109.238 | |
| | 58 Methyl cyclohexane | 83 | 4.274 | 4.275 | (0.692) | 1513087 | 100.000 | 108.597 | |
| | 59 tert-Amyl Ethylether | 59 | 4.367 | 4.373 | (1.047) | 2075694 | 100.000 | 103.393 | |
| | 60 Dibromomethane | 93 | 4.525 | 4.526 | (1.085) | 615591 | 100.000 | 114.519 | |
| | 61 1,2-Dichloropropane | 63 | 4.585 | 4.586 | (1.099) | 916829 | 100.000 | 113.382 | |
| | 62 Bromodichloromethane | 83 | 4.607 | 4.607 | (1.105) | 1172803 | 100.000 | 103.923 | |
| | 63 Methyl methacrylate | 41 | 4.667 | 4.662 | (1.119) | 760558 | 100.000 | 118.844 | |
| | 64 1,4-Dioxane | 88 | 4.721 | 4.722 | (1.132) | 341622 | 2500.00 | 2729.14(A) | |
| | 65 2-Chloroethylvinyl ether | 63 | 4.934 | 4.935 | (1.183) | 612756 | 100.000 | 103.147 | |
| | 66 cis-1,3-Dichloropropene | 75 | 4.994 | 4.995 | (0.809) | 1499905 | 100.000 | 102.916 | |
| | 67 Octane | 85 | 5.000 | 5.000 | (0.810) | 586960 | 100.000 | 111.106 | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 1004893 | 30.0000 | 29.5486 | |
| | 69 Toluene | 92 | 5.152 | 5.153 | (0.835) | 2215702 | 100.000 | 102.793 | |
| | 70 Chloroacetonitrile | 75 | 5.212 | 5.208 | (0.844) | 313617 | 500.000 | 583.645(A) | |
| | 71 2-Nitropropane | 41 | 5.300 | 5.300 | (0.859) | 1224339 | 500.000 | 515.968(A) | |
| | 72 1,1-Dichloro-2-Propanone | 63 | 5.311 | 5.317 | (0.860) | 120735 | 500.000 | 526.185(AQ) | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.371 | 5.371 | (0.870) | 4540988 | 500.000 | 532.322(A) | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.409 | 5.410 | (0.876) | 1390540 | 100.000 | 103.018 | |
| | 74 Tetrachloroethene | 164 | 5.409 | 5.410 | (0.876) | 861759 | 100.000 | 109.793 | |

Data File: 2524062508.D Page 3
Report Date: 25-Jun-2024 19:32

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| 76 | Ethyl Methacrylate | 69 | 5.480 | 5.481 | (0.888) | 1354483 | 100.000 | 103.911 | |
| 77 | 1,1,2-Trichloroethane | 83 | 5.523 | 5.524 | (0.895) | 726717 | 100.000 | 109.731 | |
| 78 | Chlorodibromomethane | 129 | 5.649 | 5.650 | (0.915) | 980105 | 100.000 | 103.998 | |
| 79 | 1,3-Dichloropropane | 76 | 5.714 | 5.710 | (0.926) | 1471130 | 100.000 | 112.429 | |
| 80 | 1,2-Dibromoethane | 107 | 5.829 | 5.830 | (0.944) | 921715 | 100.000 | 104.304 | |
| 81 | 2-Hexanone | 43 | 5.933 | 5.933 | (0.961) | 3096661 | 500.000 | 529.025(A) | |
| 82 | 1-Chlorohexane | 91 | 6.146 | 6.146 | (0.996) | 1297909 | 100.000 | 114.457 | |
| * 83 | Chlorobenzene-d5 | 82 | 6.173 | 6.174 | (1.000) | 429544 | 30.0000 | | |
| 84 | Chlorobenzene | 112 | 6.184 | 6.184 | (1.002) | 2443576 | 100.000 | 111.243 | |
| 85 | Ethylbenzene | 106 | 6.189 | 6.190 | (1.003) | 1327438 | 100.000 | 103.500 | |
| 86 | 1,1,1,2-Tetrachloroethane | 131 | 6.222 | 6.223 | (1.008) | 867838 | 100.000 | 104.290 | |
| 87 | mp-Xylene | 106 | 6.287 | 6.288 | (1.019) | 3168696 | 200.000 | 208.645(A) | |
| 88 | o-Xylene | 106 | 6.609 | 6.610 | (1.071) | 1516109 | 100.000 | 103.716 | |
| 89 | Styrene | 104 | 6.648 | 6.648 | (0.836) | 2454318 | 100.000 | 102.297(M) | MP |
| 90 | Bromoform | 173 | 6.680 | 6.686 | (0.840) | 690099 | 100.000 | 101.763 | |
| 91 | Isopropylbenzene | 105 | 6.838 | 6.839 | (0.860) | 3465736 | 100.000 | 103.792 | |
| M 100 | 1,2-Dichloroethene, Total | 61 | | | | 2294345 | 200.000 | 225.714 | |
| $ 92 | 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 346523 | 30.0000 | 30.9724 | |
| 93 | Bromobenzene | 156 | 7.155 | 7.156 | (0.900) | 1061383 | 100.000 | 111.003 | |
| 94 | n-Propylbenzene | 120 | 7.155 | 7.156 | (0.900) | 1084898 | 100.000 | 110.958 | |
| 95 | 1,1,2,2-Tetrachloroethane | 83 | 7.204 | 7.205 | (0.906) | 1083239 | 100.000 | 113.982 | |
| 96 | o-Chlorotoluene | 91 | 7.291 | 7.292 | (0.917) | 2871759 | 100.000 | 111.635 | |
| 97 | 1,3,5-Trimethylbenzene | 105 | 7.302 | 7.303 | (0.918) | 3015928 | 100.000 | 110.832 | |
| 98 | 1,2,3-Trichloropropane | 110 | 7.324 | 7.325 | (0.921) | 340852 | 100.000 | 111.201 | |
| 99 | trans-1,4-Dichloro-2-butene | 53 | 7.346 | 7.341 | (0.924) | 297095 | 100.000 | 101.573(M) | MP |
| 101 | p-Chlorotoluene | 91 | 7.417 | 7.418 | (0.933) | 2569291 | 100.000 | 110.266 | |
| 102 | tert-Butylbenzene | 134 | 7.559 | 7.559 | (0.951) | 733804 | 100.000 | 112.751 | |
| 103 | Pentachloroethane | 117 | 7.586 | 7.581 | (0.954) | 667170 | 100.000 | 101.782(M) | MP |
| 104 | 1,2,4-Trimethylbenzene | 105 | 7.613 | 7.614 | (0.957) | 2964649 | 100.000 | 103.049 | |
| 105 | sec-Butylbenzene | 105 | 7.701 | 7.707 | (0.968) | 3807940 | 100.000 | 113.225 | |
| 106 | p-Isopropyltoluene | 134 | 7.815 | 7.816 | (0.983) | 882856 | 100.000 | 114.632 | |
| 107 | 1,3-Dichlorobenzene | 146 | 7.892 | 7.892 | (0.992) | 1788974 | 100.000 | 111.056 | |
| * 108 | 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 404418 | 30.0000 | (Q) | |
| 109 | 1,4-Dichlorobenzene | 146 | 7.963 | 7.963 | (1.001) | 1841285 | 100.000 | 109.659 | |
| 110 | Benzyl Chloride | 126 | 8.159 | 8.160 | (1.026) | 405519 | 100.000 | 100.284(Q) | |
| 111 | n-Butylbenzene | 134 | 8.159 | 8.160 | (1.026) | 788569 | 100.000 | 109.565 | |
| 112 | Hexachloroethane | 117 | 8.290 | 8.285 | (1.043) | 590317 | 100.000 | 101.880 | |
| 113 | 1,2-Dichlorobenzene | 146 | 8.312 | 8.311 | (1.045) | 1716708 | 100.000 | 111.877 | |
| 114 | 1,2-Dibromo-3-chloropropane | 75 | 8.983 | 8.984 | (1.130) | 187226 | 100.000 | 102.574 | |
| 115 | Nitrobenzene | 77 | 9.463 | 9.464 | (1.190) | 699975 | 1000.00 | 1037.49(A) | |
| 116 | Hexachlorobutadiene | 225 | 9.529 | 9.524 | (1.198) | 520622 | 100.000 | 102.290 | |
| M 120 | 1,3-Dichloropropene, Total | 75 | | | | 2890445 | 200.000 | 205.934 | |
| 117 | 1,2,4-Trichlorobenzene | 180 | 9.556 | 9.556 | (1.202) | 1183404 | 100.000 | 116.457 | |
| M 121 | Total Xylenes | 106 | | | | 4684805 | 300.000 | 312.362 | |
| 118 | Naphthalene | 128 | 9.829 | 9.829 | (1.236) | 3095315 | 100.000 | 103.286 | |
| 119 | 1,2,3-Trichlorobenzene | 180 | 9.981 | 9.982 | (1.255) | 1155326 | 100.000 | 100.890 | |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.


Y (x10^7)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
Min
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5
4.8
5.1
5.4
5.7
6.0
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
9.0
9.3
9.6
9.9
10.2
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-Carbon Disulfide
-Iodomethane
-Acrolein
-Isopropyl Alcohol+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile
-Diisopropyl ether
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Dibromofluoromethane+
-Heptane
-Benzene+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene
-Chloroacetonitrile
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
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-o-Xylene
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Nitrobenzene
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
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Operator: ILY
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Page 1

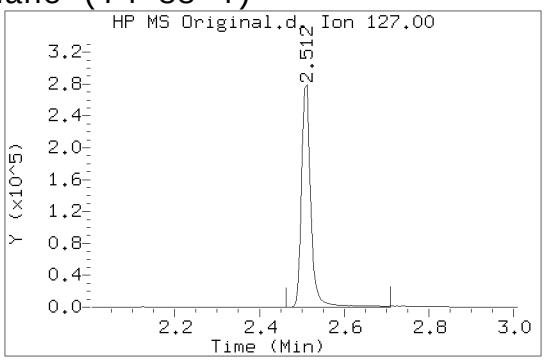
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LabSampID : 1238

## Iodomethane (74-88-4)

Reason Code: MP

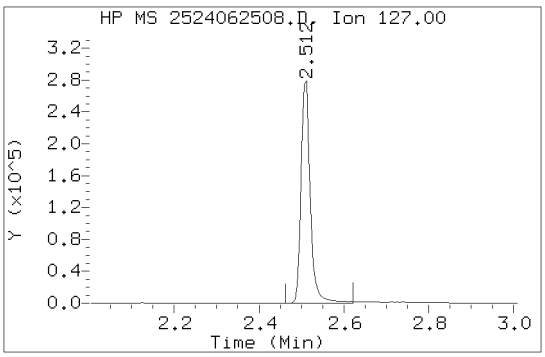
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25-Jun-2024
18:20



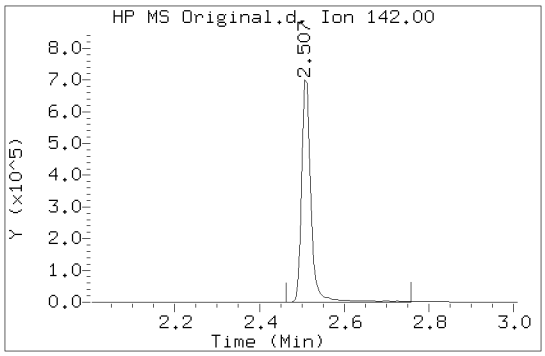

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25-Jun-2024
19:31



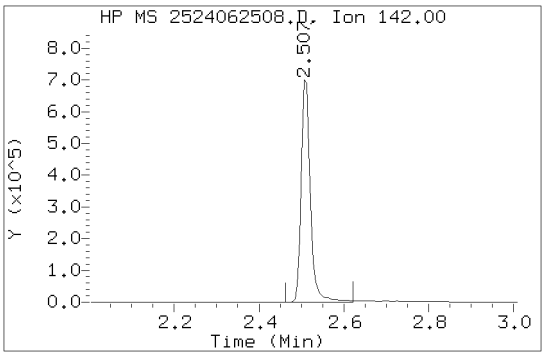

**BEFORE**

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HEIGHT
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25-Jun-2024
18:20




**AFTER**

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25-Jun-2024
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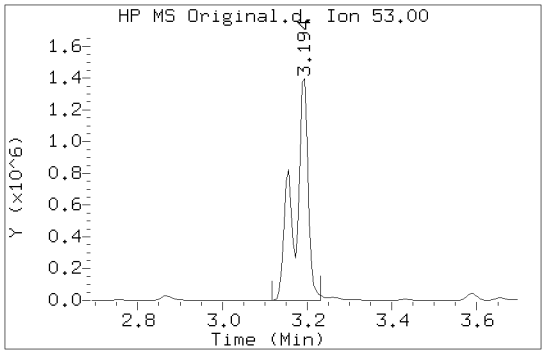



## Acrylonitrile (107-13-1)

Reason Code: MP

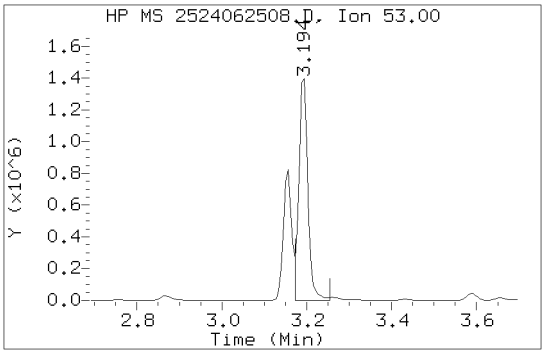
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25-Jun-2024
18:20



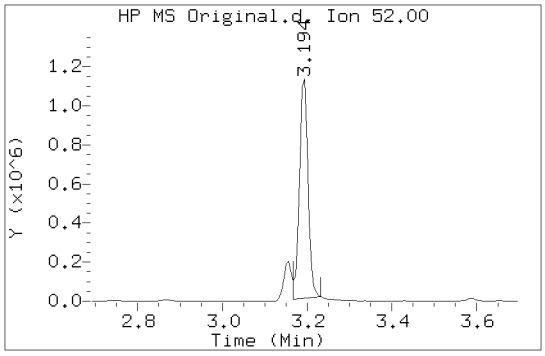

**AFTER**

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25-Jun-2024
19:31



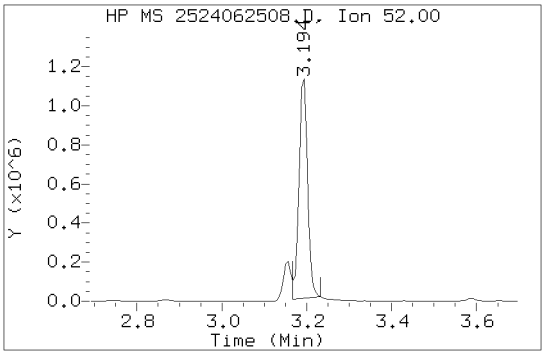

**BEFORE**

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HEIGHT
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25-Jun-2024
18:20




**AFTER**

MASS
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AREA
1590847
HEIGHT
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25-Jun-2024
19:31



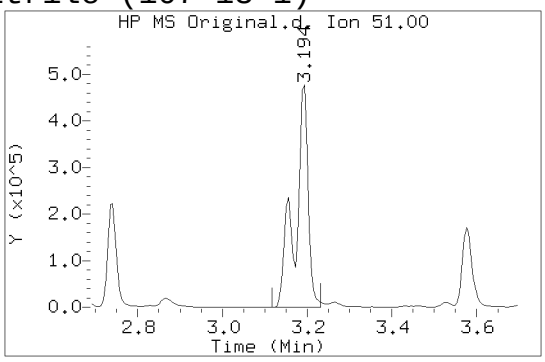
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LabSampID : 1238

## Acrylonitrile (107-13-1)

Reason Code: MP

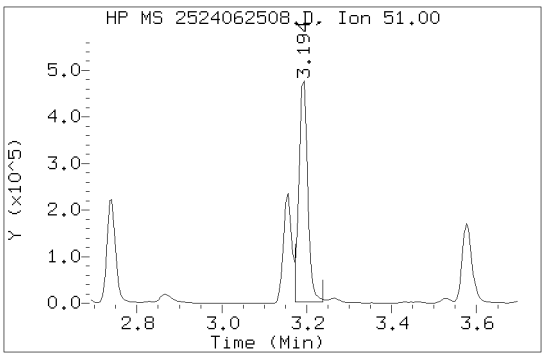
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HEIGHT
477632
25-Jun-2024
18:20




**AFTER**

MASS
51
AREA
691823
HEIGHT
474483
25-Jun-2024
19:31

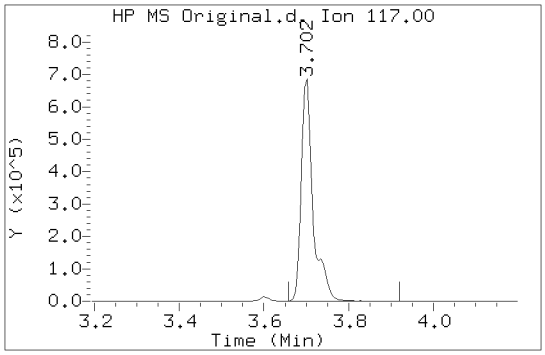



## Carbon Tetrachloride (56-23-5)

Reason Code: MP

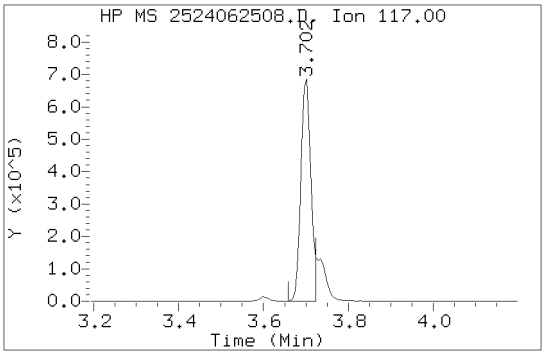
**BEFORE**

MASS
117
AREA
1340898
HEIGHT
685952
25-Jun-2024
18:20



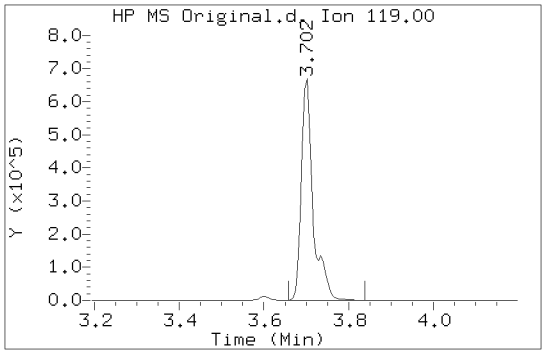

**AFTER**

MASS
117
AREA
1141242
HEIGHT
685952
25-Jun-2024
19:31



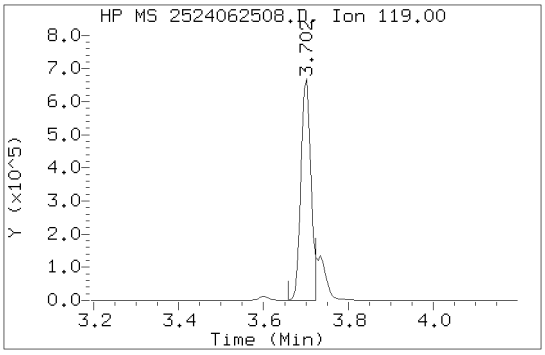

**BEFORE**

MASS
119
AREA
1300214
HEIGHT
669237
25-Jun-2024
18:20



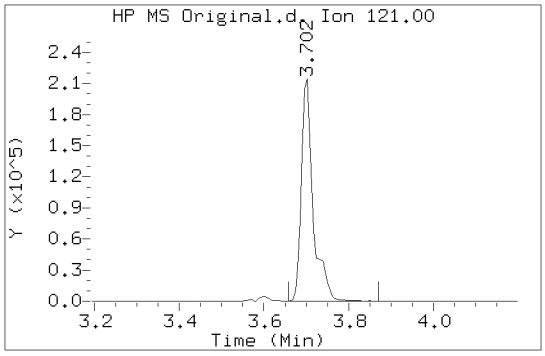

**AFTER**

MASS
119
AREA
1108054
HEIGHT
669237
25-Jun-2024
19:31



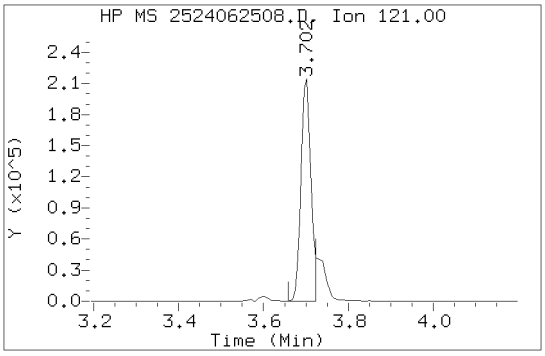

**BEFORE**

MASS
121
AREA
416014
HEIGHT
214464
25-Jun-2024
18:20




**AFTER**

MASS
121
AREA
352724
HEIGHT
214464
25-Jun-2024
19:31

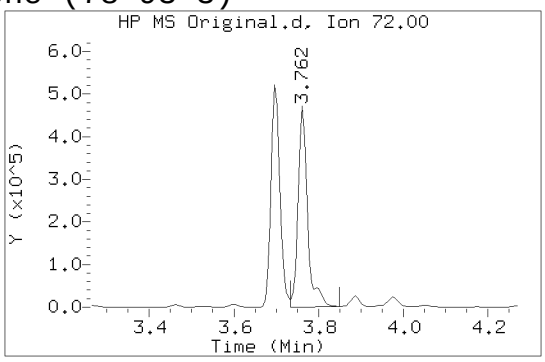


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Inj Date : 25-JUN-2024 12:45
InstruID : ms25.i
LabSampID : 1238

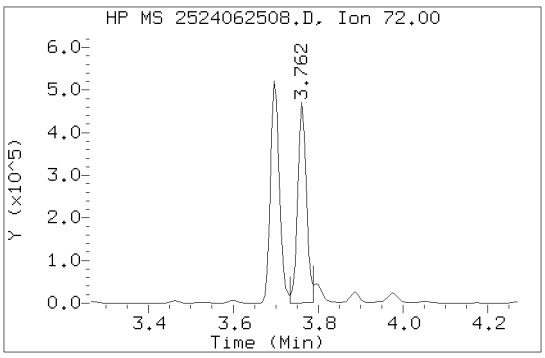
## 2-Butanone (78-93-3)

Reason Code: MP

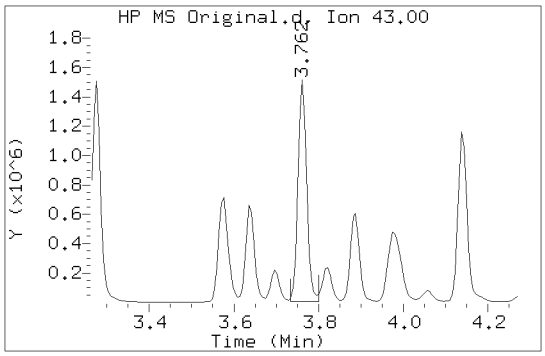
BEFORE
MASS
72
AREA
734461
HEIGHT
471672
25-Jun-2024
18:20



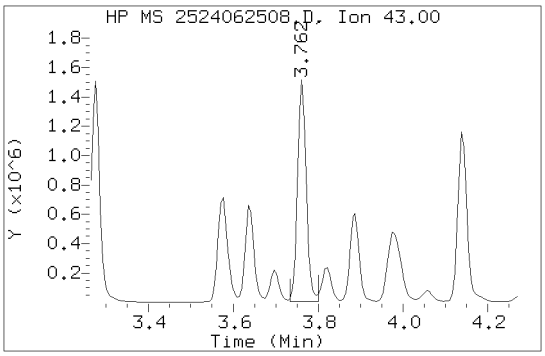

AFTER
MASS
72
AREA
680917
HEIGHT
471673
25-Jun-2024
19:31




BEFORE
MASS
43
AREA
2163935
HEIGHT
1509778
25-Jun-2024
18:20



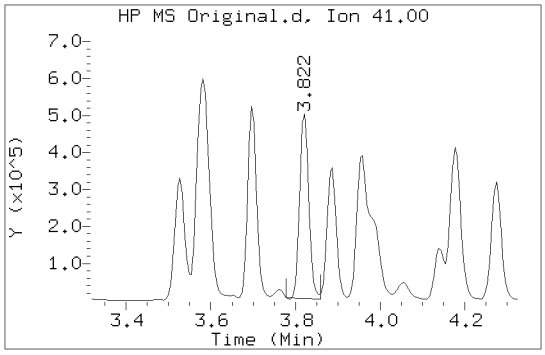

AFTER
MASS
43
AREA
2163935
HEIGHT
1509778
25-Jun-2024
19:31



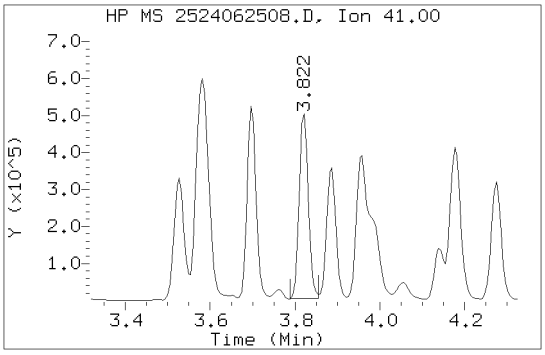

## 1-Chlorobutane (109-69-3)

Reason Code: I

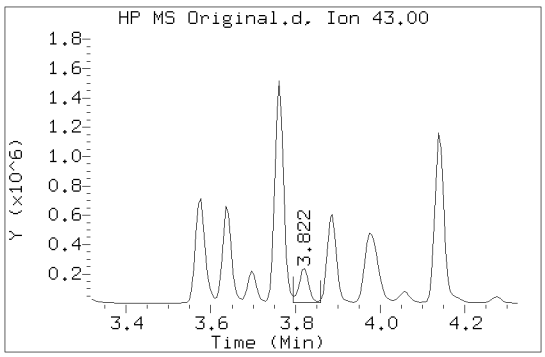
BEFORE
MASS
41
AREA
752135
HEIGHT
498573
25-Jun-2024
18:20



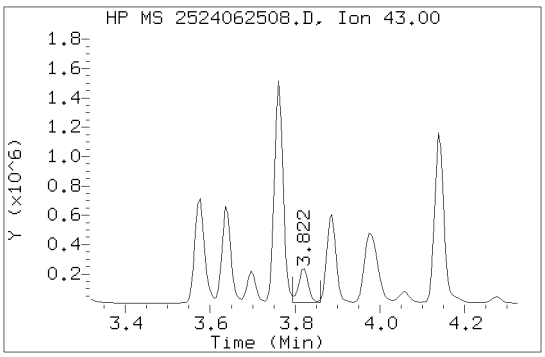

AFTER
MASS
41
AREA
750558
HEIGHT
499132
25-Jun-2024
19:31




BEFORE
MASS
43
AREA
385549
HEIGHT
231936
25-Jun-2024
18:20




AFTER
MASS
43
AREA
385549
HEIGHT
231936
25-Jun-2024
19:31

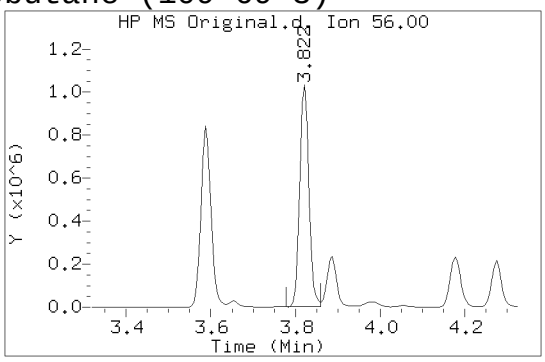


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Inj Date : 25-JUN-2024 12:45
InstruID : ms25.i
LabSampID : 1238

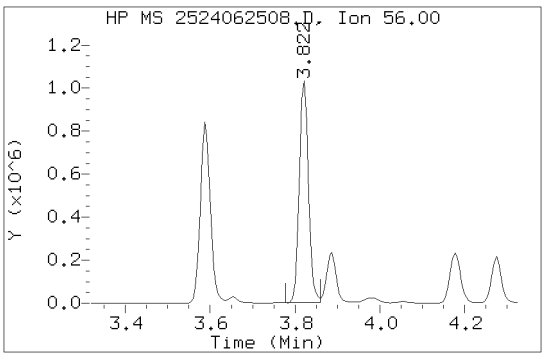
## 1-Chlorobutane (109-69-3)

Reason Code: I

BEFORE
MASS
56
AREA
1562097
HEIGHT
1032203
25-Jun-2024
18:20



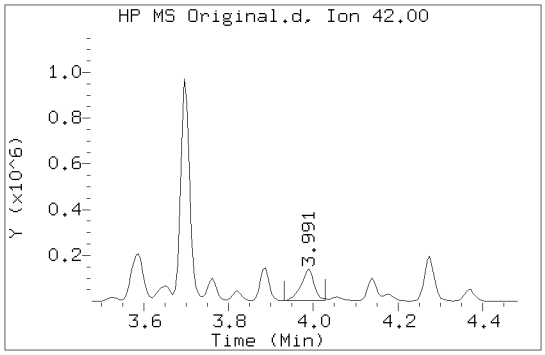

AFTER
MASS
56
AREA
1562097
HEIGHT
1032203
25-Jun-2024
19:31



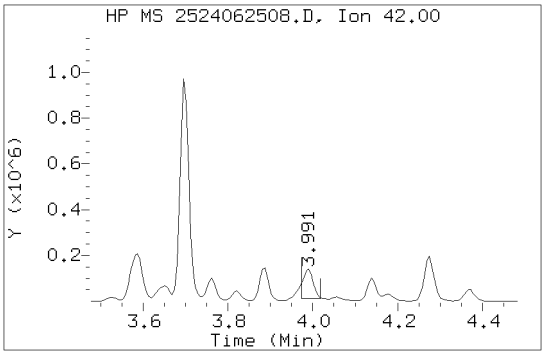

## Isobutyl alcohol (78-83-1)

Reason Code: MP

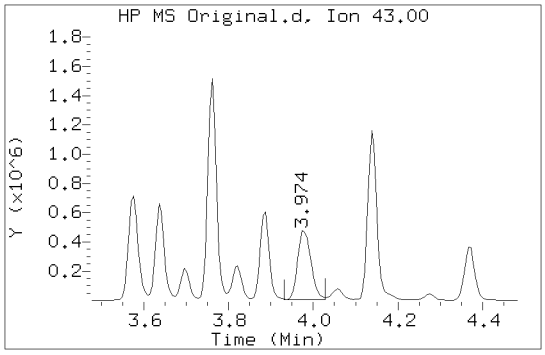
BEFORE
MASS
42
AREA
300551
HEIGHT
138328
25-Jun-2024
18:20



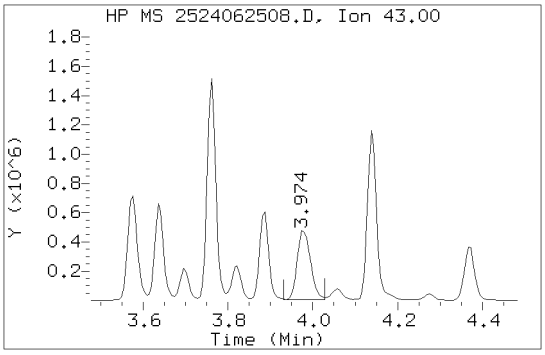

AFTER
MASS
42
AREA
211992
HEIGHT
129362
25-Jun-2024
19:31



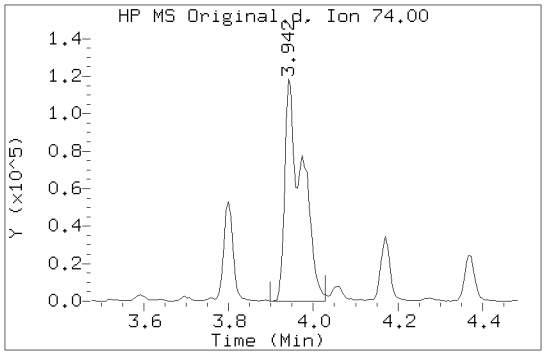

BEFORE
MASS
43
AREA
1050595
HEIGHT
473179
25-Jun-2024
18:20



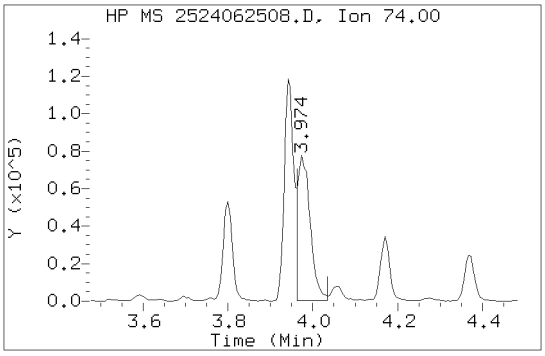

AFTER
MASS
43
AREA
1050595
HEIGHT
473179
25-Jun-2024
19:31




BEFORE
MASS
74
AREA
340688
HEIGHT
118552
25-Jun-2024
18:20




AFTER
MASS
74
AREA
161903
HEIGHT
77595
25-Jun-2024
19:31

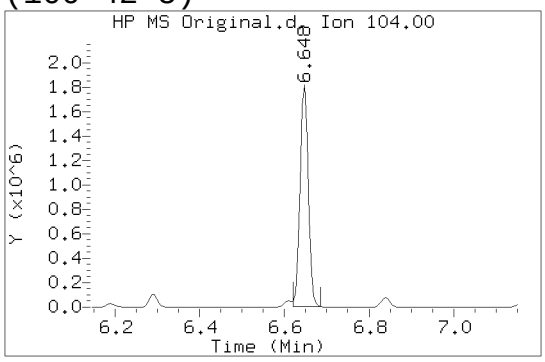


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Inj Date : 25-JUN-2024 12:45
InstruID : ms25.i
LabSampID : 1238

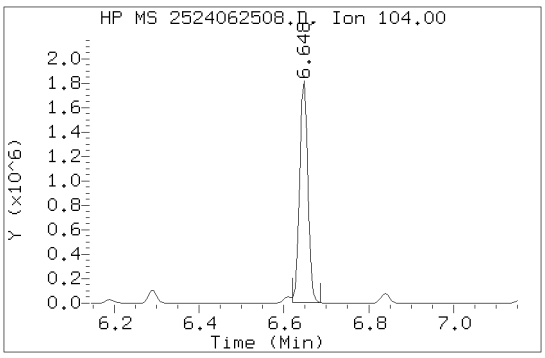
## Styrene (100-42-5)

Reason Code: MP

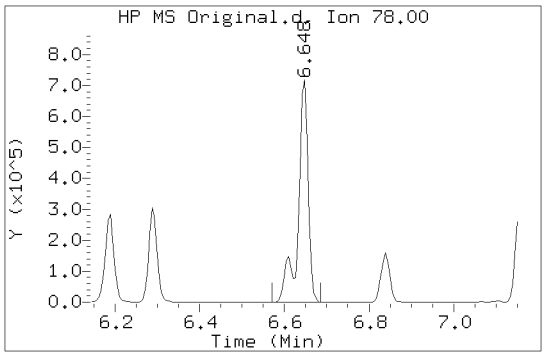
**BEFORE**
MASS
104
AREA
2454318
HEIGHT
1813453
25-Jun-2024
18:20



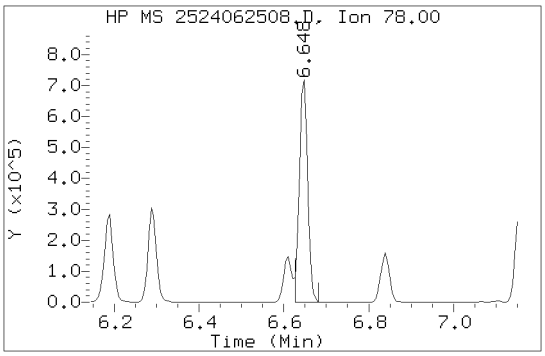

**AFTER**
MASS
104
AREA
2454318
HEIGHT
1813453
25-Jun-2024
19:31



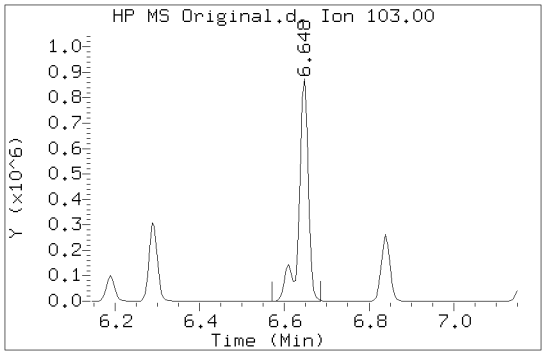

**BEFORE**
MASS
78
AREA
1183141
HEIGHT
718080
25-Jun-2024
18:20



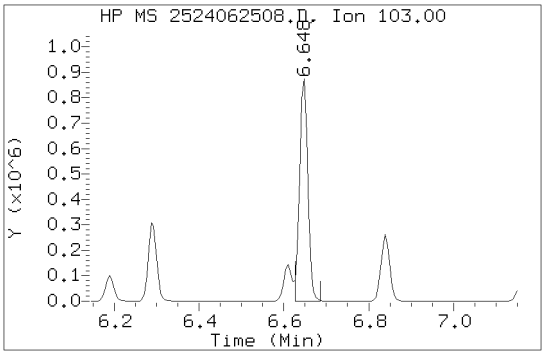

**AFTER**
MASS
78
AREA
987505
HEIGHT
717971
25-Jun-2024
19:31




**BEFORE**
MASS
103
AREA
1383231
HEIGHT
873920
25-Jun-2024
18:20



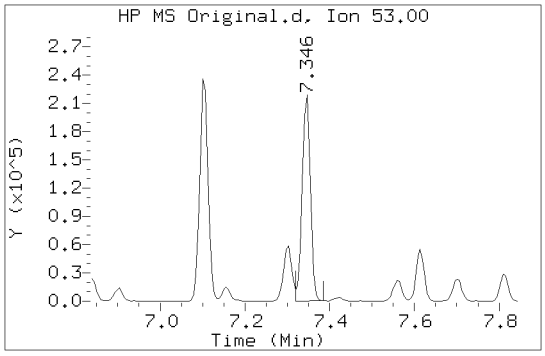

**AFTER**
MASS
103
AREA
1190788
HEIGHT
873756
25-Jun-2024
19:31



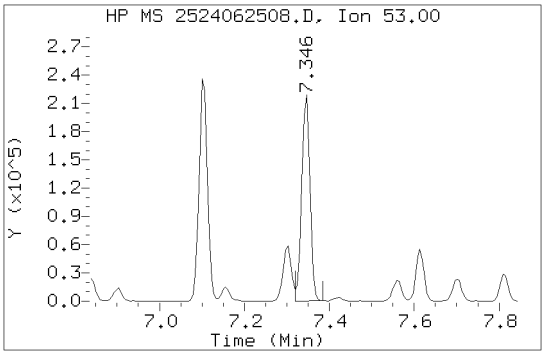

## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

**BEFORE**
MASS
53
AREA
297095
HEIGHT
218507
25-Jun-2024
18:20




**AFTER**
MASS
53
AREA
297095
HEIGHT
218507
25-Jun-2024
19:31

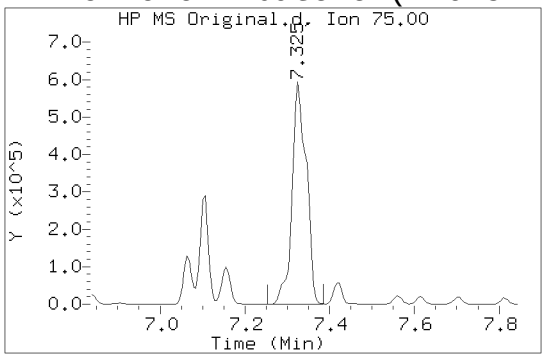


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Inj Date : 25-JUN-2024 12:45
InstruID : ms25.i
LabSampID : 1238

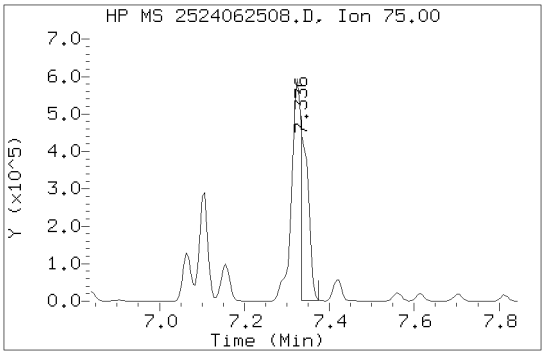
## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

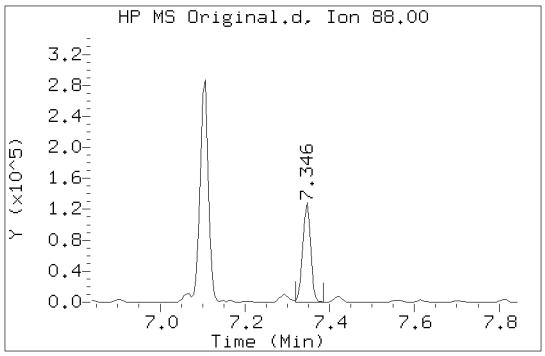
BEFORE
MASS
75
AREA
1390402
HEIGHT
593542
25-Jun-2024
18:20



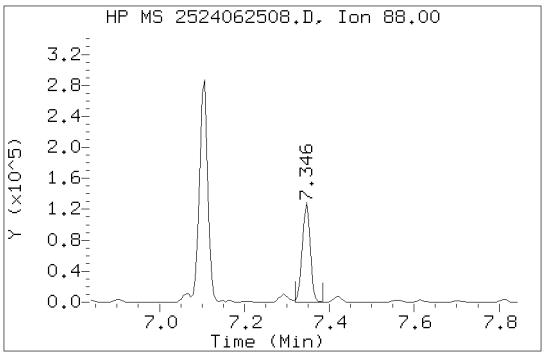

AFTER
MASS
75
AREA
555149
HEIGHT
441254
25-Jun-2024
19:31




BEFORE
MASS
88
AREA
167684
HEIGHT
128214
25-Jun-2024
18:20



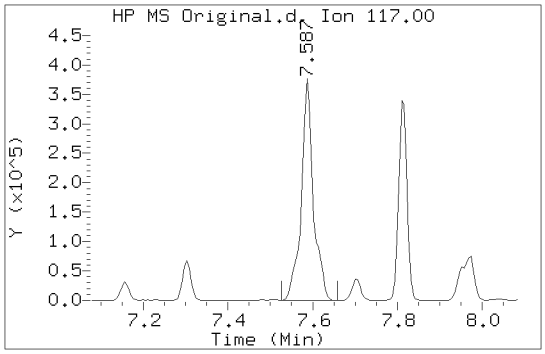

AFTER
MASS
88
AREA
167684
HEIGHT
128214
25-Jun-2024
19:31



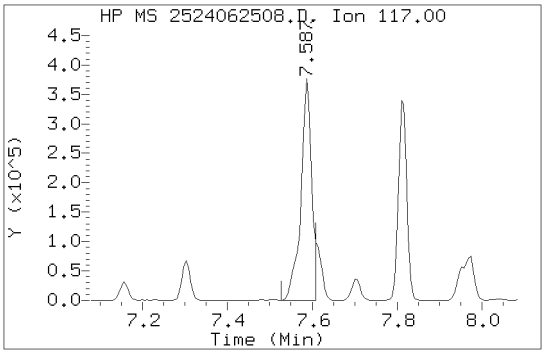

## Pentachloroethane (76-01-7)

Reason Code: MP

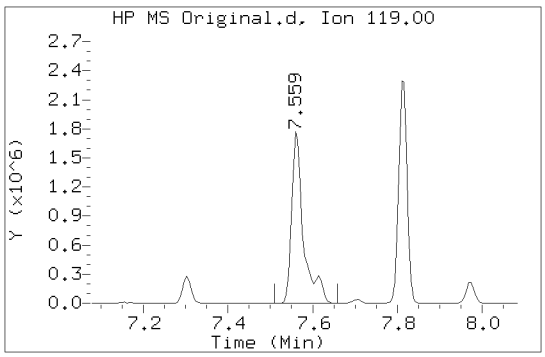
BEFORE
MASS
117
AREA
743627
HEIGHT
376640
25-Jun-2024
18:20



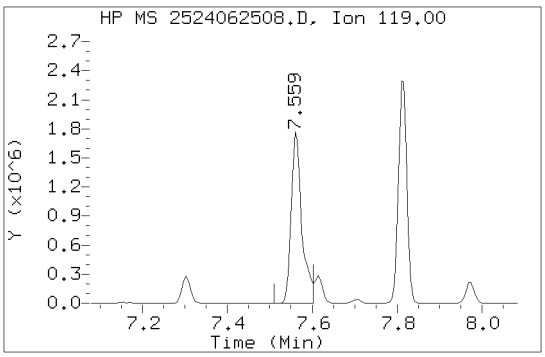

AFTER
MASS
117
AREA
667170
HEIGHT
376640
25-Jun-2024
19:31




BEFORE
MASS
119
AREA
3454111
HEIGHT
1771520
25-Jun-2024
18:20




AFTER
MASS
119
AREA
3121942
HEIGHT
1771520
25-Jun-2024
19:31



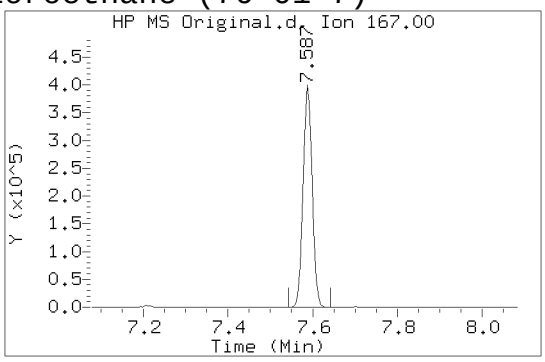
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Inj Date : 25-JUN-2024 12:45
InstruID : ms25.i
LabSampID : 1238

## Pentachloroethane (76-01-7)

Reason Code: MP

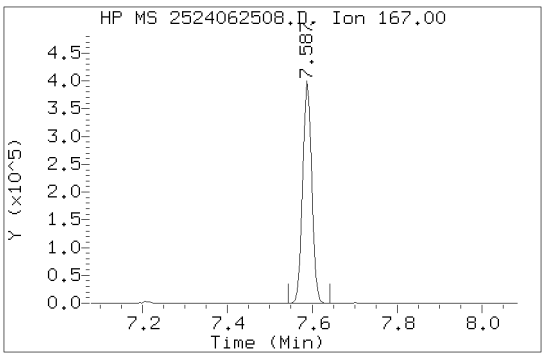
BEFORE

MASS
167
AREA
595116
HEIGHT
400000
25-Jun-2024
18:20




AFTER

MASS
167
AREA
595116
HEIGHT
400000
25-Jun-2024
19:31

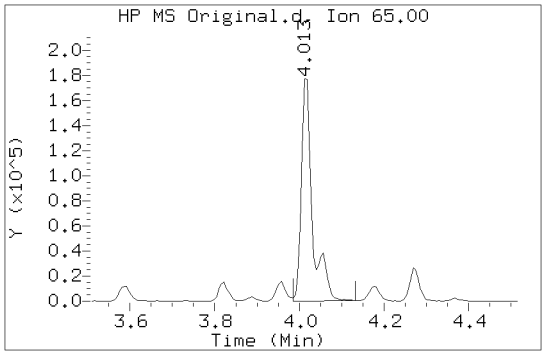



## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

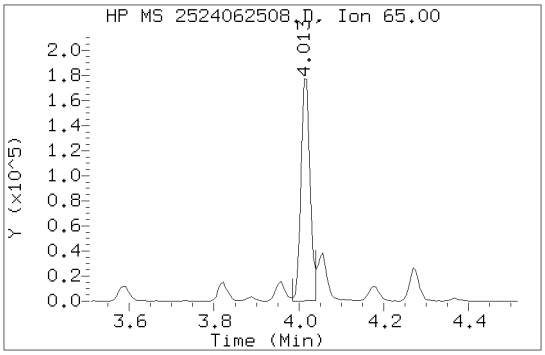
BEFORE

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65
AREA
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HEIGHT
176958
25-Jun-2024
18:20



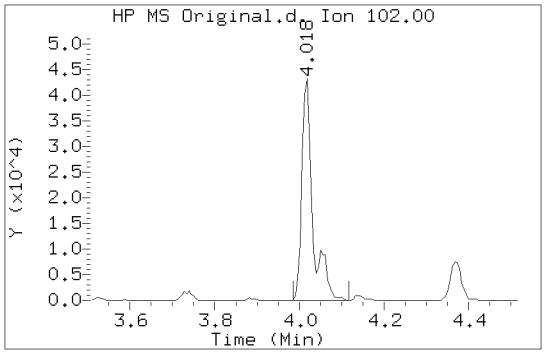

AFTER

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25-Jun-2024
19:31



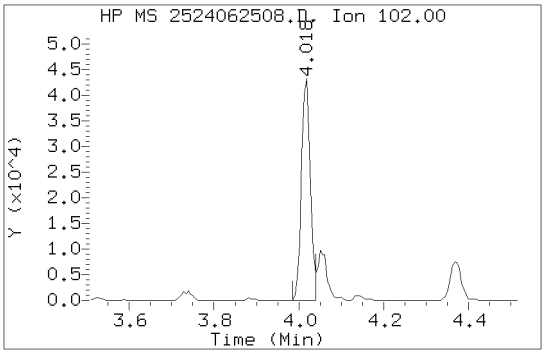

BEFORE

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25-Jun-2024
18:20



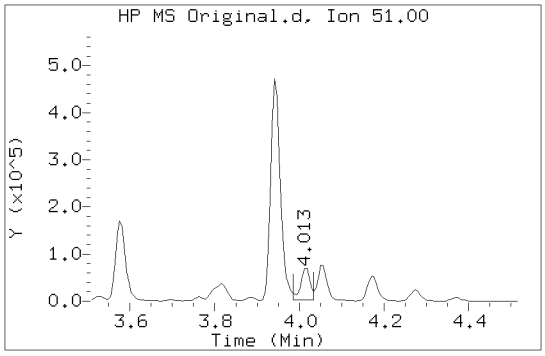

AFTER

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25-Jun-2024
19:31



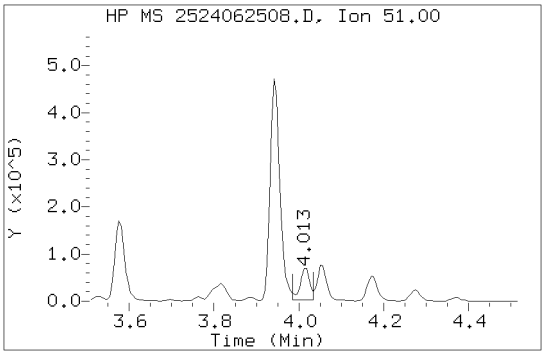

BEFORE

MASS
51
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HEIGHT
67511
25-Jun-2024
18:20




AFTER

MASS
51
AREA
112491
HEIGHT
67511
25-Jun-2024
19:31



# UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406250
Inj Date: 25-JUN-2024 12:45
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062509.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062509.D
Lab Smp Id: 1239
Inj Date : 25-JUN-2024 13:05
Operator : ILY Inst ID: ms25.i
Smp Info : 1239;;1;1;6;;;
Misc Info :
Comment :
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Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.497 | 1.497 | (0.359) | 2533343 | 200.000 | 200.661(A) | |
| 2 Chloromethane | 50 | 1.644 | 1.645 | (0.394) | 2190978 | 200.000 | 199.066 | |
| 3 Vinyl Chloride | 62 | 1.704 | 1.705 | (0.409) | 2763717 | 200.000 | 193.643 | |
| 4 Bromomethane | 94 | 1.922 | 1.923 | (0.461) | 1305713 | 200.000 | 192.375 | |
| 5 Chloroethane | 64 | 1.999 | 2.005 | (0.479) | 1905246 | 200.000 | 198.539 | |
| 6 Pentane | 41 | 2.086 | 2.092 | (0.500) | 1732989 | 200.000 | 197.891 | |
| 7 Trichlorofluoromethane | 101 | 2.097 | 2.103 | (0.503) | 3760616 | 200.000 | 192.366 | |
| 8 Dichlorofluoromethane | 67 | 2.124 | 2.125 | (0.509) | 3794751 | 200.000 | 209.785(A) | |
| 9 Ethyl Ether | 74 | 2.277 | 2.278 | (0.546) | 1181973 | 200.000 | 214.877(A) | |
| 10 1,1-Dichloroethene | 61 | 2.413 | 2.409 | (0.579) | 2327421 | 200.000 | 212.037(A) | |
| 11 Freon 113 | 101 | 2.424 | 2.425 | (0.581) | 1639523 | 200.000 | 212.363(A) | |
| 12 Carbon Disulfide | 76 | 2.446 | 2.447 | (0.587) | 5113780 | 200.000 | 215.969(A) | |
| 13 Iodomethane | 127 | 2.506 | 2.507 | (0.601) | 874390 | 200.000 | 203.891(AM) | MP |
| 14 Acrolein | 56 | 2.599 | 2.600 | (0.623) | 1855433 | 1000.00 | 1047.97(A) | |
| 15 Isopropyl Alcohol | 45 | 2.653 | 2.654 | (0.636) | 563852 | 1000.00 | 983.496(A) | |
| 16 3-Chloro-1-propene | 41 | 2.681 | 2.676 | (0.643) | 1831594 | 200.000 | 191.003 | |
| 17 Methylene Chloride | 84 | 2.741 | 2.741 | (0.657) | 1850713 | 200.000 | 206.413(A) | |
| 18 Acetone | 58 | 2.757 | 2.752 | (0.661) | 957192 | 1000.00 | 963.579(A) | |
| 19 Methyl acetate | 74 | 2.812 | 2.812 | (0.674) | 401646 | 200.000 | 198.075 | |
| 20 trans-1,2-Dichloroethene | 61 | 2.828 | 2.829 | (0.678) | 2259733 | 200.000 | 210.193(A) | |
| 21 Hexane | 57 | 2.861 | 2.867 | (0.686) | 3534639 | 200.000 | 198.521 | |

Data File: 2524062509.D
Report Date: 25-Jun-2024 19:32



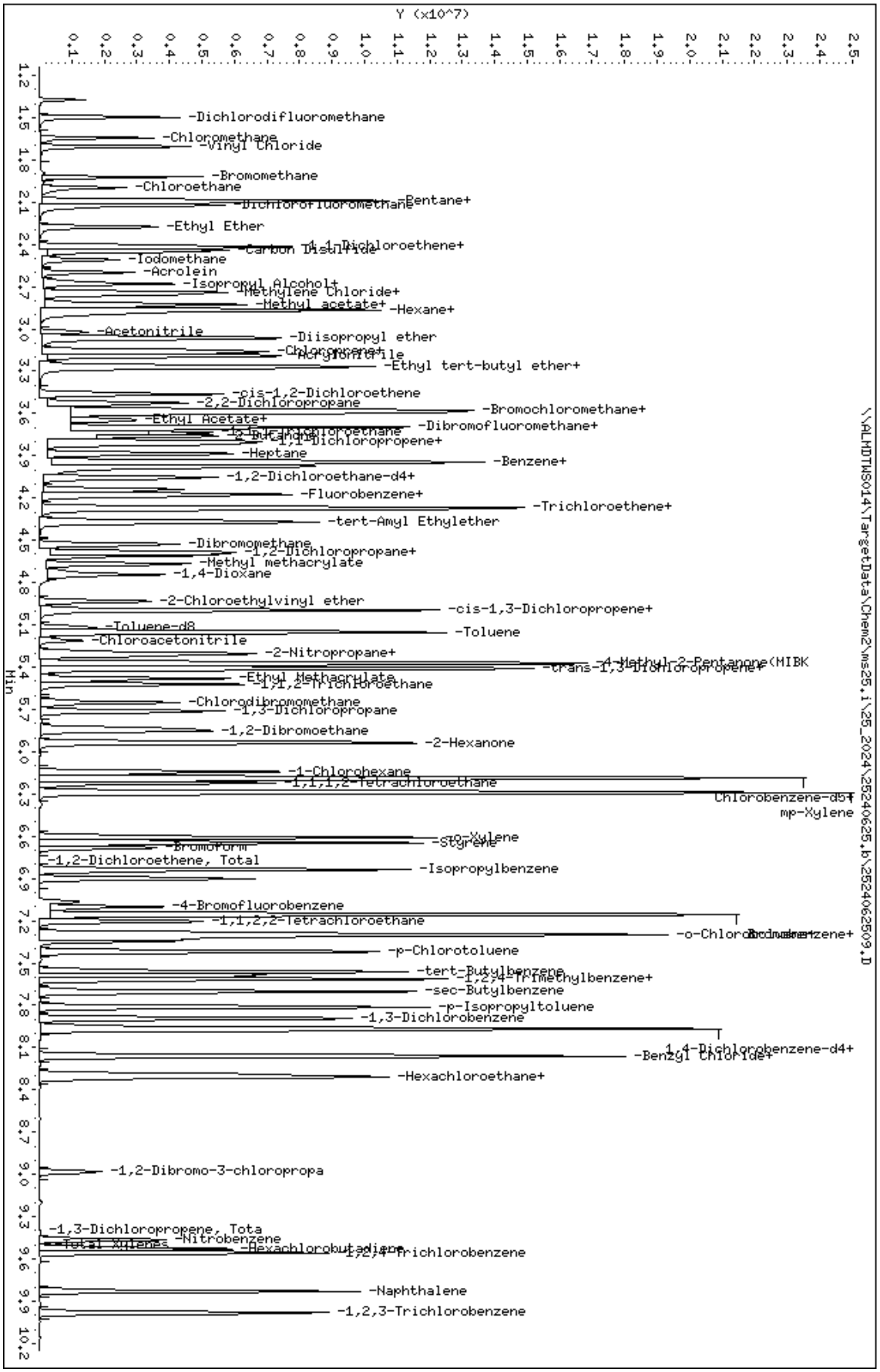
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | 2.872 | 2.872 | (0.689) | 5465615 | 200.000 | 197.482 | |
| | 23 tert.- Butyl Alcohol | 59 | 2.899 | 2.889 | (0.695) | 1044247 | 1000.00 | 1053.02(A) | |
| | 24 Acetonitrile | 41 | 3.019 | 3.020 | (0.724) | 1144489 | 1000.00 | 1030.32(A) | |
| | 25 Diisopropyl ether | 45 | 3.063 | 3.063 | (0.734) | 5106206 | 200.000 | 214.009(A) | |
| | 26 Chloroprene | 53 | 3.155 | 3.156 | (0.757) | 2690763 | 200.000 | 222.440(A) | |
| | 27 1,1-Dichloroethane | 63 | 3.172 | 3.167 | (0.761) | 3152575 | 200.000 | 215.242(A) | |
| | 28 Acrylonitrile | 53 | 3.194 | 3.194 | (0.766) | 4150745 | 1000.00 | 1088.14(AM) | MP |
| | 29 Ethyl tert-butyl ether | 59 | 3.265 | 3.265 | (0.783) | 5631765 | 200.000 | 222.238(A) | |
| | 30 n-Propanol | 41 | 3.265 | 3.260 | (0.783) | 934630 | 2000.00 | 1988.33(A) | |
| | 31 Vinyl Acetate | 86 | 3.276 | 3.276 | (0.785) | 502264 | 200.000 | 199.748(Q) | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.461 | 3.462 | (0.830) | 2317342 | 200.000 | 212.587(A) | |
| | 33 2,2-Dichloropropane | 77 | 3.526 | 3.522 | (0.846) | 2483153 | 200.000 | 212.717(A) | |
| | 34 Bromochloromethane | 128 | 3.576 | 3.576 | (0.857) | 1007796 | 200.000 | 214.387(A) | |
| | 35 Cyclohexane | 84 | 3.587 | 3.587 | (0.860) | 2805001 | 200.000 | 214.457(A) | |
| | 36 Chloroform | 83 | 3.597 | 3.598 | (0.863) | 3402674 | 200.000 | 215.202(A) | |
| | 37 Ethyl Acetate | 43 | 3.636 | 3.642 | (0.872) | 1869543 | 200.000 | 197.447 | |
| | 38 Methyl acrylate | 55 | 3.652 | 3.653 | (0.876) | 1893330 | 200.000 | 215.695(A) | |
| | 39 Carbon Tetrachloride | 117 | 3.701 | 3.696 | (0.887) | 2364065 | 200.000 | 202.004(AM) | MP |
| $ | 41 Dibromofluoromethane | 113 | 3.707 | 3.707 | (0.889) | 269793 | 30.0000 | 29.9675 | |
| | 40 Tetrahydrofuran | 42 | 3.696 | 3.696 | (0.886) | 2809741 | 1000.00 | 1047.05(A) | |
| | 42 1,1,1-Trichloroethane | 97 | 3.734 | 3.740 | (0.895) | 2730421 | 200.000 | 221.860(A) | |
| | 43 2-Butanone | 72 | 3.761 | 3.767 | (0.902) | 1355775 | 1000.00 | 1045.11(AM) | MP |
| | 44 1,1-Dichloropropene | 75 | 3.799 | 3.800 | (0.911) | 2490484 | 200.000 | 213.935(A) | |
| | 45 1-Chlorobutane | 41 | 3.821 | 3.822 | (0.916) | 1497481 | 200.000 | 200.031(A) | |
| | 46 Heptane | 71 | 3.887 | 3.887 | (0.932) | 1359947 | 200.000 | 201.075(A) | |
| | 47 Benzene | 78 | 3.941 | 3.942 | (0.945) | 7285794 | 200.000 | 203.620(A) | |
| | 48 Propionitrile | 54 | 3.941 | 3.942 | (0.945) | 1569623 | 1000.00 | 1086.65(A) | |
| | 49 Methacrylonitrile | 67 | 3.952 | 3.953 | (0.948) | 949015 | 200.000 | 219.168(A) | |
| | 50 tert-Amyl methyl ether | 73 | 3.974 | 3.975 | (0.953) | 5347492 | 200.000 | 218.606(A) | |
| | 54 Isobutyl alcohol | 42 | 3.990 | 3.980 | (0.957) | 461252 | 2000.00 | 2080.98(AQM) | MP |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.018 | 4.013 | (0.963) | 264730 | 30.0000 | 27.8946(Q) | |
| | 52 1,2-Dichloroethane | 62 | 4.056 | 4.056 | (0.973) | 2293019 | 200.000 | 203.858(A) | |
| | 53 tert-Amyl Alcohol | 59 | 4.056 | 4.062 | (0.973) | 828700 | 1000.00 | 1089.18(A) | |
| * | 55 Fluorobenzene | 96 | 4.170 | 4.171 | (1.000) | 1140999 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.176 | 4.171 | (1.001) | 4304948 | 200.000 | 199.241 | |
| | 57 Trichloroethene | 95 | 4.269 | 4.269 | (1.024) | 1911167 | 200.000 | 211.044(A) | |
| | 58 Methyl cyclohexane | 83 | 4.274 | 4.275 | (0.692) | 3083558 | 200.000 | 207.342(A) | |
| | 59 tert-Amyl Ethylether | 59 | 4.367 | 4.373 | (1.047) | 4280148 | 200.000 | 199.943 | |
| | 60 Dibromomethane | 93 | 4.525 | 4.526 | (1.085) | 1261550 | 200.000 | 220.365(A) | |
| | 61 1,2-Dichloropropane | 63 | 4.585 | 4.586 | (1.099) | 1865089 | 200.000 | 216.575(A) | |
| | 62 Bromodichloromethane | 83 | 4.607 | 4.607 | (1.105) | 2408792 | 200.000 | 200.112(A) | |
| | 63 Methyl methacrylate | 41 | 4.667 | 4.662 | (1.119) | 1542068 | 200.000 | 226.257(A) | |
| | 64 1,4-Dioxane | 88 | 4.721 | 4.722 | (1.132) | 654248 | 5000.00 | 4907.67(A) | |
| | 65 2-Chloroethylvinyl ether | 63 | 4.934 | 4.935 | (1.183) | 1290655 | 200.000 | 203.639(A) | |
| | 66 cis-1,3-Dichloropropene | 75 | 4.994 | 4.995 | (0.809) | 3091062 | 200.000 | 198.443 | |
| | 67 Octane | 85 | 5.000 | 5.000 | (0.810) | 1164839 | 200.000 | 206.573(A) | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 1004821 | 30.0000 | 27.6813 | |
| | 69 Toluene | 92 | 5.153 | 5.153 | (0.835) | 4497848 | 200.000 | 195.496 | |
| | 70 Chloroacetonitrile | 75 | 5.213 | 5.208 | (0.844) | 605378 | 1000.00 | 1055.50(A) | |
| | 71 2-Nitropropane | 41 | 5.300 | 5.300 | (0.859) | 2564073 | 1000.00 | 1010.56(A) | |
| | 72 1,1-Dichloro-2-Propanone | 63 | 5.316 | 5.317 | (0.861) | 244954 | 1000.00 | 998.419(AQ) | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.371 | 5.371 | (0.870) | 8734882 | 1000.00 | 958.508(A) | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.409 | 5.410 | (0.876) | 2883334 | 200.000 | 199.848 | |
| | 74 Tetrachloroethene | 164 | 5.409 | 5.410 | (0.876) | 1746614 | 200.000 | 208.481(A) | |

Data File: 2524062509.D Page 3
Report Date: 25-Jun-2024 19:32

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl Methacrylate | 69 | 5.480 | 5.481 | (0.888) | 2747208 | 200.000 | 197.168 | |
| | 77 1,1,2-Trichloroethane | 83 | 5.524 | 5.524 | (0.895) | 1455486 | 200.000 | 205.900(A) | |
| | 78 Chlorodibromomethane | 129 | 5.649 | 5.650 | (0.915) | 2002816 | 200.000 | 198.766 | |
| | 79 1,3-Dichloropropane | 76 | 5.715 | 5.710 | (0.926) | 2931716 | 200.000 | 209.909(A) | |
| | 80 1,2-Dibromoethane | 107 | 5.829 | 5.830 | (0.944) | 1854429 | 200.000 | 196.399 | |
| | 81 2-Hexanone | 43 | 5.938 | 5.933 | (0.962) | 6043549 | 1000.00 | 966.370(A) | |
| | 82 1-Chlorohexane | 91 | 6.146 | 6.146 | (0.996) | 2598392 | 200.000 | 214.677(A) | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.174 | (1.000) | 458486 | 30.0000 | | |
| | 84 Chlorobenzene | 112 | 6.184 | 6.184 | (1.002) | 4976299 | 200.000 | 212.244(A) | |
| | 85 Ethylbenzene | 106 | 6.189 | 6.190 | (1.003) | 2724522 | 200.000 | 199.145 | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | 6.222 | 6.223 | (1.008) | 1749666 | 200.000 | 196.705 | |
| | 87 mp-Xylene | 106 | 6.287 | 6.288 | (1.019) | 6367993 | 400.000 | 393.536(A) | |
| | 88 o-Xylene | 106 | 6.609 | 6.610 | (1.071) | 3066270 | 200.000 | 196.521 | |
| | 89 Styrene | 104 | 6.648 | 6.648 | (0.836) | 4976988 | 200.000 | 202.321(AM) | MP |
| | 90 Bromoform | 173 | 6.680 | 6.686 | (0.840) | 1437569 | 200.000 | 206.673(A) | |
| | 91 Isopropylbenzene | 105 | 6.839 | 6.839 | (0.860) | 6796201 | 200.000 | 198.663 | |
| M | 100 1,2-Dichloroethene, Total | 61 | | | | 4577075 | 400.000 | 422.780 | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 328983 | 30.0000 | 28.7193 | |
| | 93 Bromobenzene | 156 | 7.155 | 7.156 | (0.900) | 2134822 | 200.000 | 218.064(A) | |
| | 94 n-Propylbenzene | 120 | 7.155 | 7.156 | (0.900) | 2189906 | 200.000 | 218.753(A) | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | 7.204 | 7.205 | (0.906) | 2194263 | 200.000 | 225.506(A) | |
| | 96 o-Chlorotoluene | 91 | 7.291 | 7.292 | (0.917) | 5793534 | 200.000 | 219.965(A) | |
| | 97 1,3,5-Trimethylbenzene | 105 | 7.302 | 7.303 | (0.918) | 5987392 | 200.000 | 214.902(A) | |
| | 98 1,2,3-Trichloropropane | 110 | 7.324 | 7.325 | (0.921) | 681141 | 200.000 | 217.039(A) | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | 7.346 | 7.341 | (0.924) | 609147 | 200.000 | 203.114(AM) | MP |
| | 101 p-Chlorotoluene | 91 | 7.417 | 7.418 | (0.933) | 5152023 | 200.000 | 215.954(A) | |
| | 102 tert-Butylbenzene | 134 | 7.559 | 7.559 | (0.951) | 1465252 | 200.000 | 219.893(A) | |
| | 103 Pentachloroethane | 117 | 7.586 | 7.581 | (0.954) | 1367796 | 200.000 | 203.511(AM) | MP |
| | 104 1,2,4-Trimethylbenzene | 105 | 7.613 | 7.614 | (0.957) | 5884390 | 200.000 | 199.913 | |
| | 105 sec-Butylbenzene | 105 | 7.701 | 7.707 | (0.968) | 7352965 | 200.000 | 213.536(A) | |
| | 106 p-Isopropyltoluene | 134 | 7.815 | 7.816 | (0.983) | 1743745 | 200.000 | 221.134(A) | |
| | 107 1,3-Dichlorobenzene | 146 | 7.892 | 7.892 | (0.992) | 3602650 | 200.000 | 218.432(A) | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 414069 | 30.0000 | (Q) | |
| | 109 1,4-Dichlorobenzene | 146 | 7.963 | 7.963 | (1.001) | 3762667 | 200.000 | 218.865(A) | |
| | 110 Benzyl Chloride | 126 | 8.159 | 8.160 | (1.026) | 867235 | 200.000 | 208.955(AQ) | |
| | 111 n-Butylbenzene | 134 | 8.159 | 8.160 | (1.026) | 1593183 | 200.000 | 216.199(A) | |
| | 112 Hexachloroethane | 117 | 8.290 | 8.285 | (1.043) | 1225691 | 200.000 | 206.207(A) | |
| | 113 1,2-Dichlorobenzene | 146 | 8.312 | 8.311 | (1.045) | 3512145 | 200.000 | 223.550(A) | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | 8.983 | 8.984 | (1.130) | 386483 | 200.000 | 206.383(A) | |
| | 115 Nitrobenzene | 77 | 9.463 | 9.464 | (1.190) | 1663438 | 2000.00 | 1994.71(A) | |
| | 116 Hexachlorobutadiene | 225 | 9.529 | 9.524 | (1.198) | 1058167 | 200.000 | 202.812(A) | |
| M | 120 1,3-Dichloropropene, Total | 75 | | | | 5974396 | 400.000 | 398.291 | |
| | 117 1,2,4-Trichlorobenzene | 180 | 9.556 | 9.556 | (1.202) | 2422661 | 200.000 | 232.854(A) | |
| M | 121 Total Xylenes | 106 | | | | 9434263 | 600.000 | 590.057 | |
| | 118 Naphthalene | 128 | 9.829 | 9.829 | (1.236) | 6235557 | 200.000 | 202.911(A) | |
| | 119 1,2,3-Trichlorobenzene | 180 | 9.981 | 9.982 | (1.255) | 2411703 | 200.000 | 205.392(A) | |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.




Data File: \\ALMDTWS014\TargetData\Chem2\ms25,i\25_2024\2524062509,b\2524062509.D
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Client ID:
Sample Info: 1239;;1;16;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: ILY
Column diameter: 0.25
Page 1

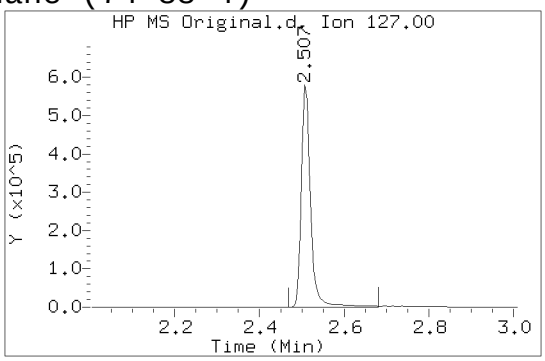
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Inj Date : 25-JUN-2024 13:05
InstruID : ms25.i
LabSampID : 1239

## Iodomethane (74-88-4)

Reason Code: MP

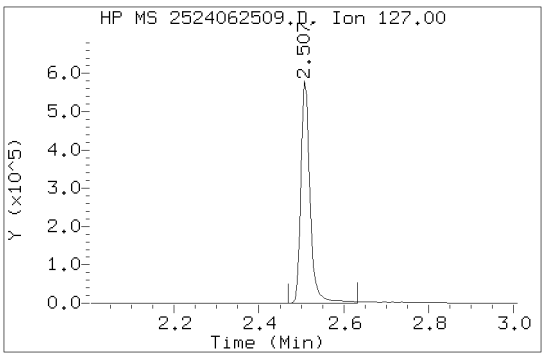
**BEFORE**

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AREA
884363
HEIGHT
580224
25-Jun-2024
18:25



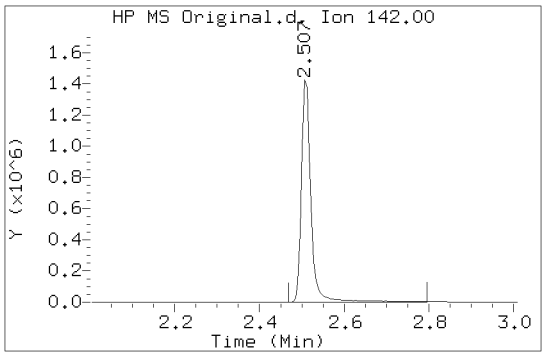

**AFTER**

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HEIGHT
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25-Jun-2024
19:31



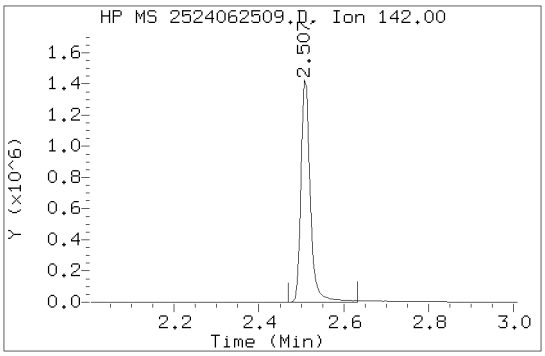

**BEFORE**

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1425920
25-Jun-2024
18:25




**AFTER**

MASS
142
AREA
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HEIGHT
1425920
25-Jun-2024
19:31

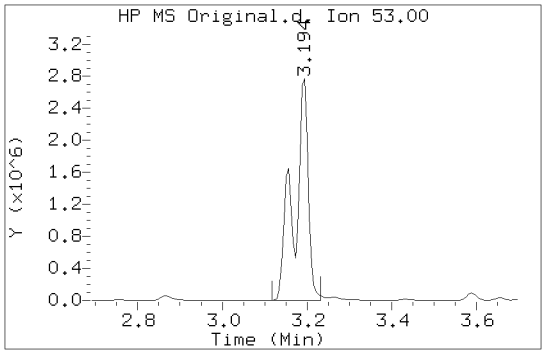



## Acrylonitrile (107-13-1)

Reason Code: MP

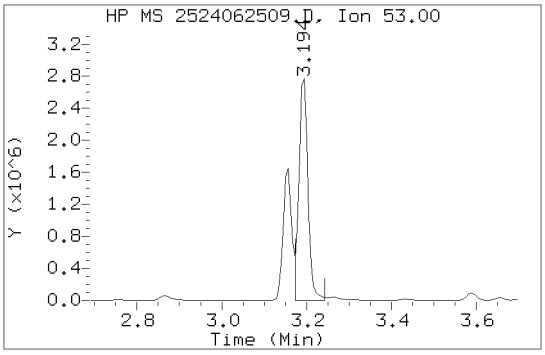
**BEFORE**

MASS
53
AREA
6354563
HEIGHT
2769907
25-Jun-2024
18:25



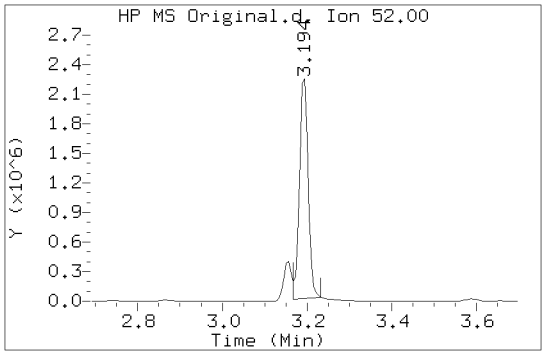

**AFTER**

MASS
53
AREA
4150745
HEIGHT
2769098
25-Jun-2024
19:31



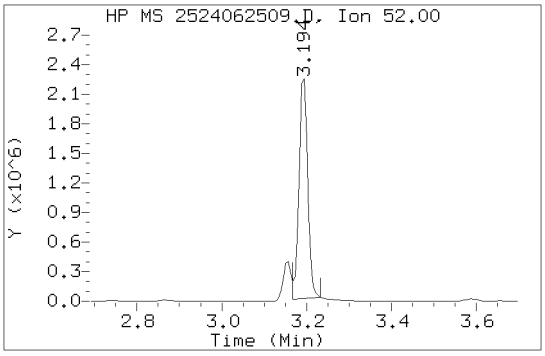

**BEFORE**

MASS
52
AREA
3216697
HEIGHT
2229568
25-Jun-2024
18:25




**AFTER**

MASS
52
AREA
3216697
HEIGHT
2229568
25-Jun-2024
19:31



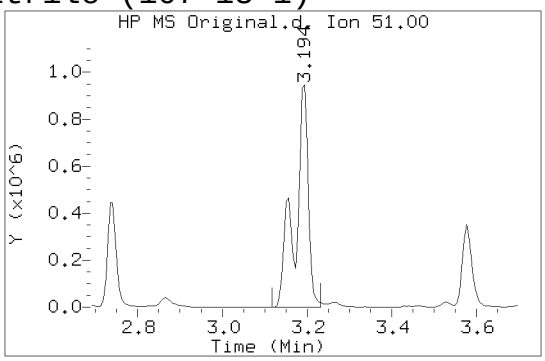
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Inj Date : 25-JUN-2024 13:05
InstruID : ms25.i
LabSampID : 1239

## Acrylonitrile (107-13-1)

Reason Code: MP

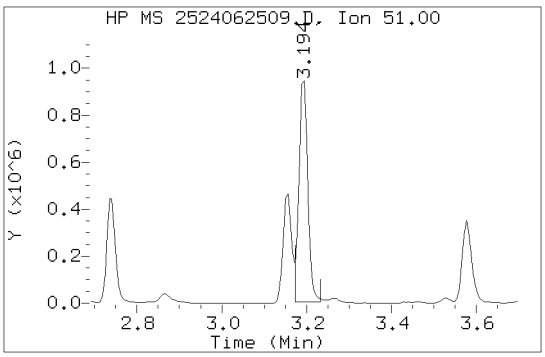
**BEFORE**

MASS
51
AREA
2049581
HEIGHT
945935
25-Jun-2024
18:25




**AFTER**

MASS
51
AREA
1391216
HEIGHT
941577
25-Jun-2024
19:31

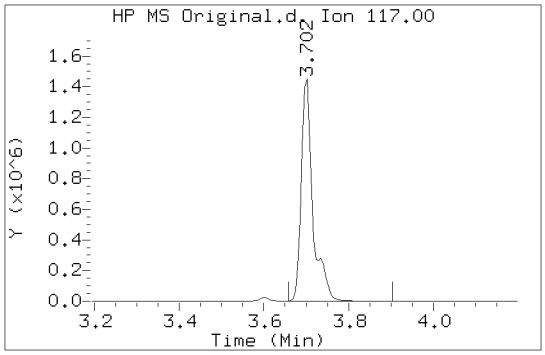



## Carbon Tetrachloride (56-23-5)

Reason Code: MP

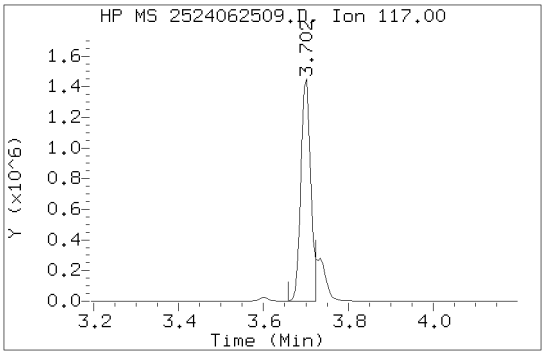
**BEFORE**

MASS
117
AREA
2775522
HEIGHT
1451008
25-Jun-2024
18:25



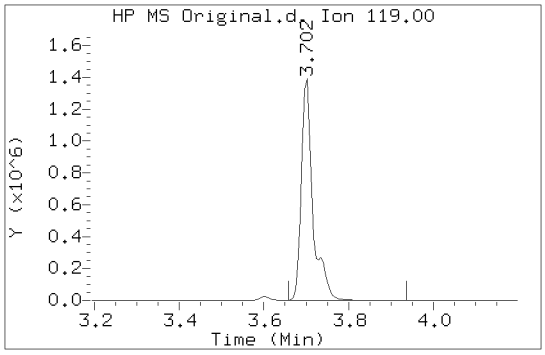

**AFTER**

MASS
117
AREA
2364065
HEIGHT
1451008
25-Jun-2024
19:31



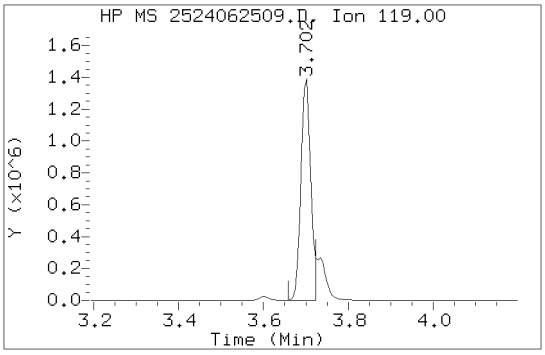

**BEFORE**

MASS
119
AREA
2660083
HEIGHT
1391104
25-Jun-2024
18:25



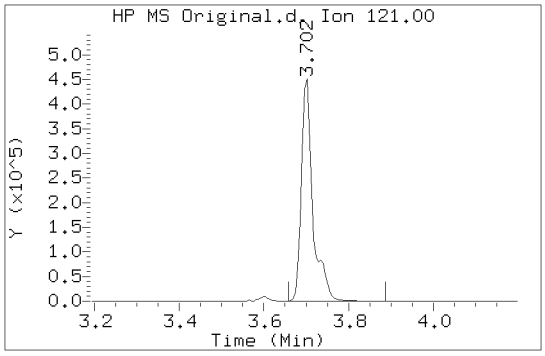

**AFTER**

MASS
119
AREA
2260916
HEIGHT
1391104
25-Jun-2024
19:31



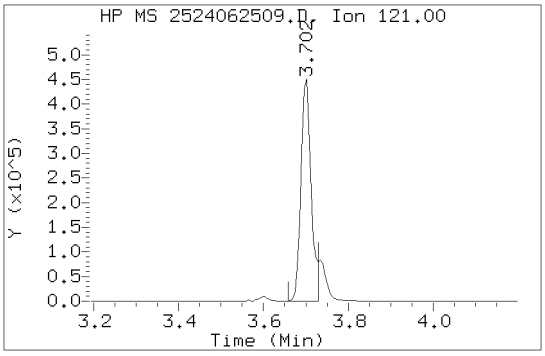

**BEFORE**

MASS
121
AREA
857041
HEIGHT
451264
25-Jun-2024
18:25




**AFTER**

MASS
121
AREA
757273
HEIGHT
451264
25-Jun-2024
19:31

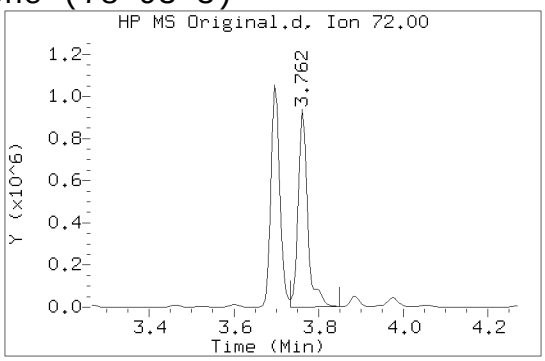


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Inj Date : 25-JUN-2024 13:05
InstruID : ms25.i
LabSampID : 1239

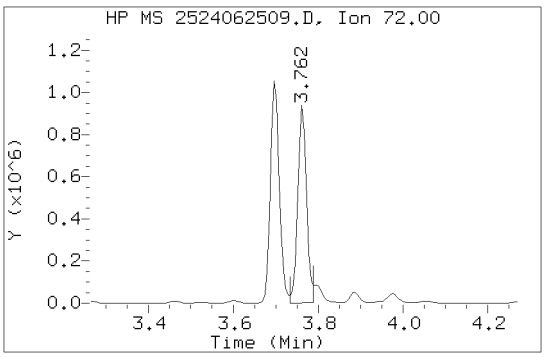
## 2-Butanone (78-93-3)

Reason Code: MP

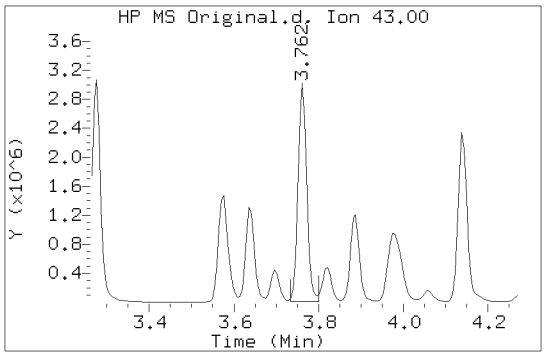
BEFORE
MASS
72
AREA
1460527
HEIGHT
938761
25-Jun-2024
18:25



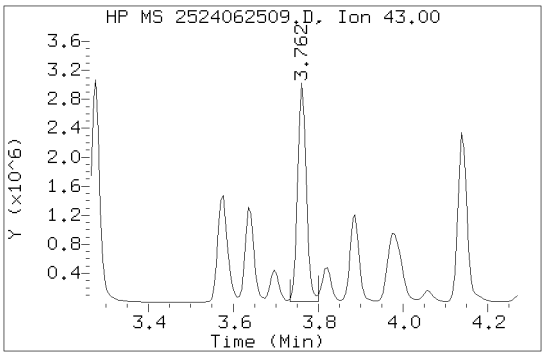

AFTER
MASS
72
AREA
1355775
HEIGHT
938762
25-Jun-2024
19:31




BEFORE
MASS
43
AREA
4299038
HEIGHT
3010929
25-Jun-2024
18:25



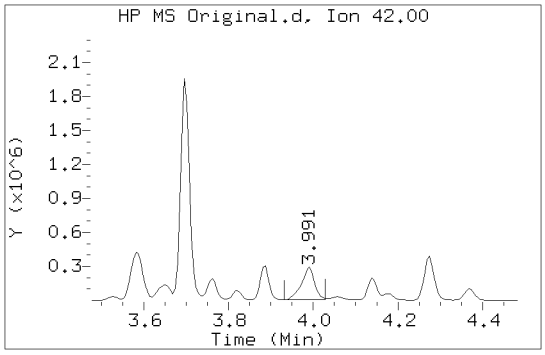

AFTER
MASS
43
AREA
4299038
HEIGHT
3010929
25-Jun-2024
19:31



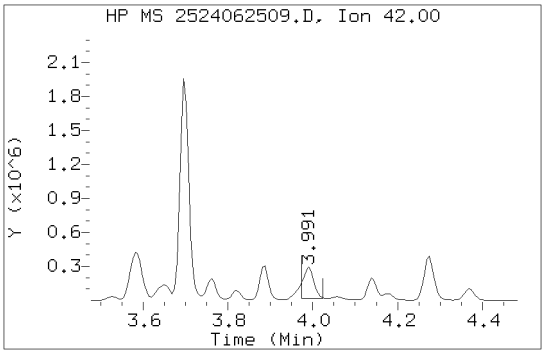

## Isobutyl alcohol (78-83-1)

Reason Code: MP

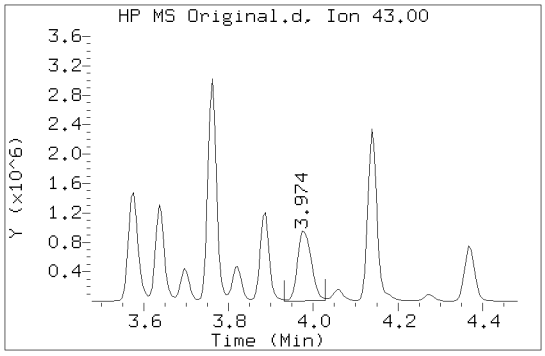
BEFORE
MASS
42
AREA
620025
HEIGHT
289160
25-Jun-2024
18:25



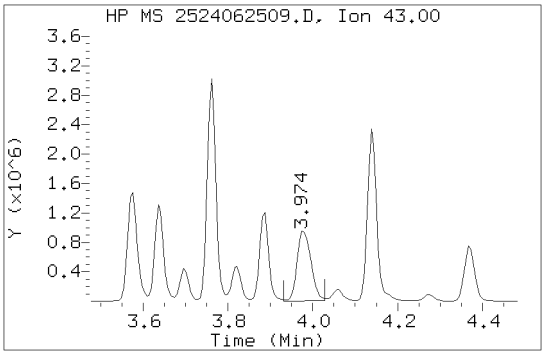

AFTER
MASS
42
AREA
461252
HEIGHT
275900
25-Jun-2024
19:31




BEFORE
MASS
43
AREA
2173621
HEIGHT
947154
25-Jun-2024
18:25




AFTER
MASS
43
AREA
2173621
HEIGHT
947154
25-Jun-2024
19:31

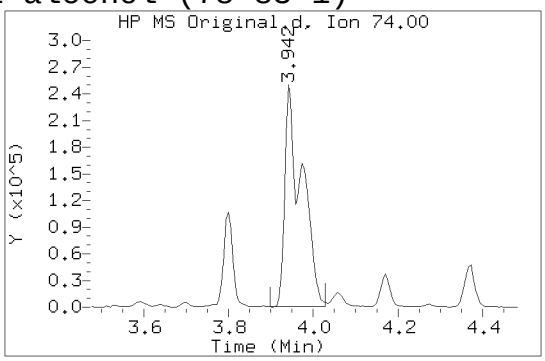


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LabSampID : 1239

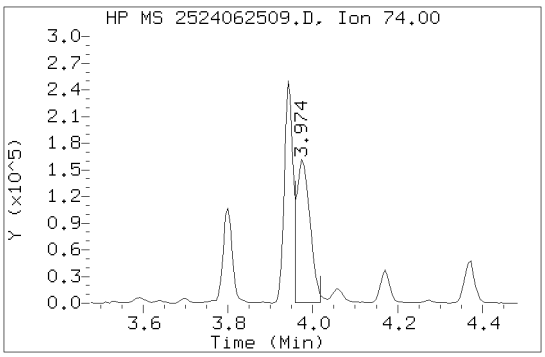
## Isobutyl alcohol (78-83-1)

Reason Code: MP

**BEFORE**
MASS
74
AREA
698483
HEIGHT
249770
25-Jun-2024
18:25



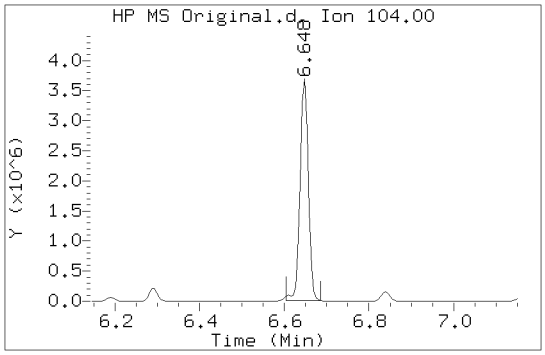

**AFTER**
MASS
74
AREA
366826
HEIGHT
160765
25-Jun-2024
19:31



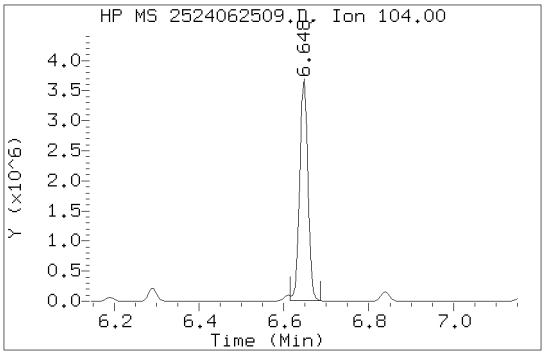

## Styrene (100-42-5)

Reason Code: MP

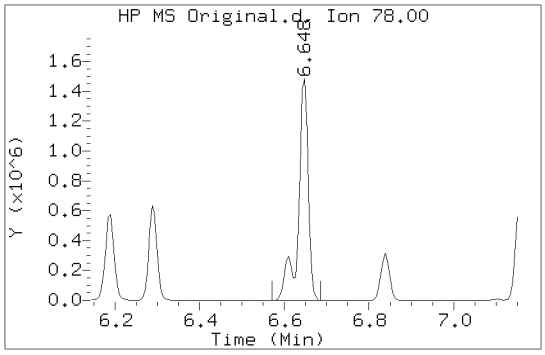
**BEFORE**
MASS
104
AREA
5036598
HEIGHT
3687716
25-Jun-2024
18:25



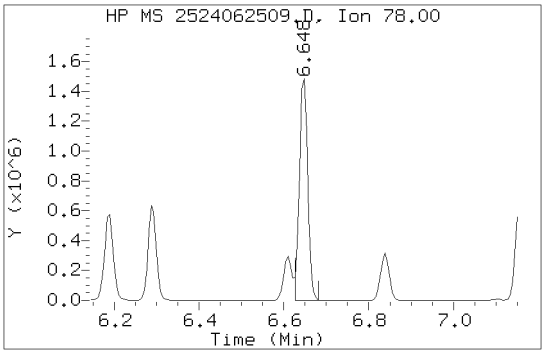

**AFTER**
MASS
104
AREA
4976988
HEIGHT
3687196
25-Jun-2024
19:31



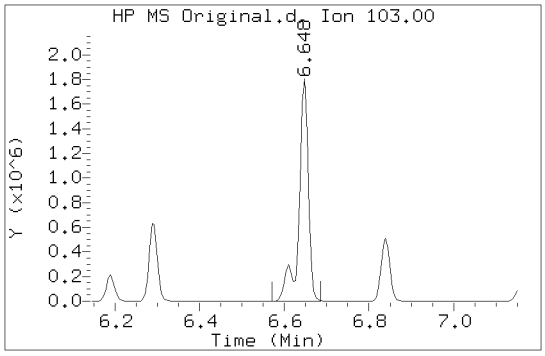

**BEFORE**
MASS
78
AREA
2443065
HEIGHT
1484288
25-Jun-2024
18:25



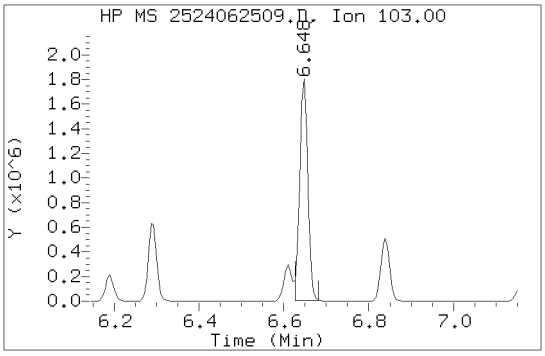

**AFTER**
MASS
78
AREA
2039990
HEIGHT
1482254
25-Jun-2024
19:31




**BEFORE**
MASS
103
AREA
2821329
HEIGHT
1805092
25-Jun-2024
18:25




**AFTER**
MASS
103
AREA
2410115
HEIGHT
1799232
25-Jun-2024
19:31

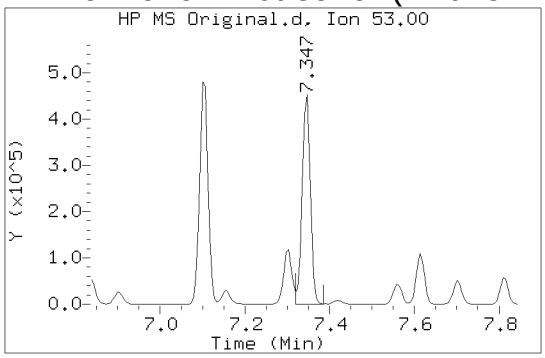


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LabSampID : 1239

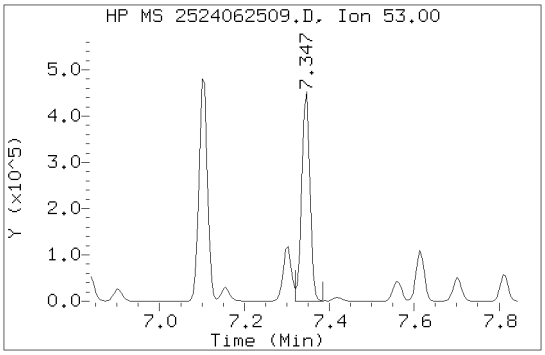
## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

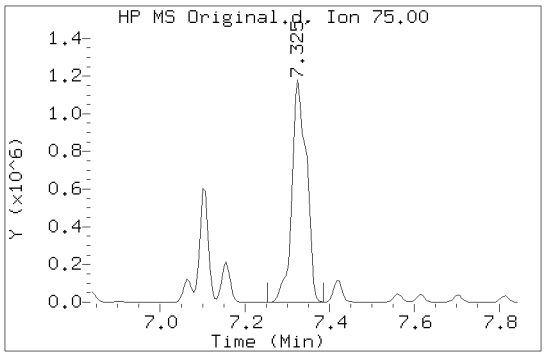
**BEFORE**
MASS
53
AREA
609147
HEIGHT
452181
25-Jun-2024
18:25



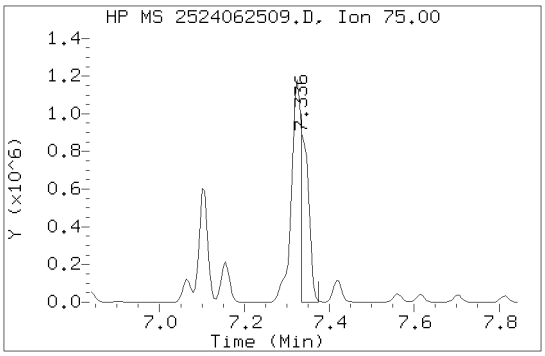

**AFTER**
MASS
53
AREA
609147
HEIGHT
452181
25-Jun-2024
19:31



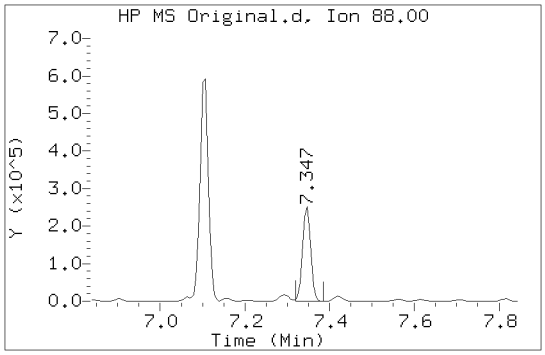

**BEFORE**
MASS
75
AREA
2825803
HEIGHT
1179648
25-Jun-2024
18:25



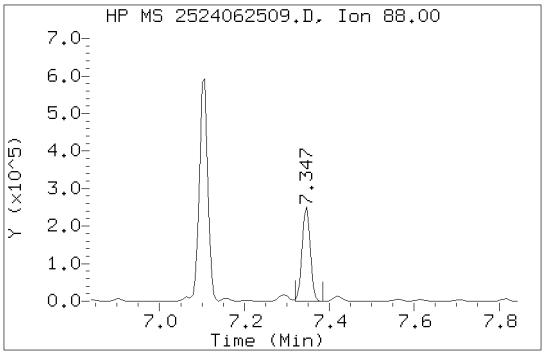

**AFTER**
MASS
75
AREA
1139497
HEIGHT
895370
25-Jun-2024
19:31




**BEFORE**
MASS
88
AREA
337074
HEIGHT
250889
25-Jun-2024
18:25



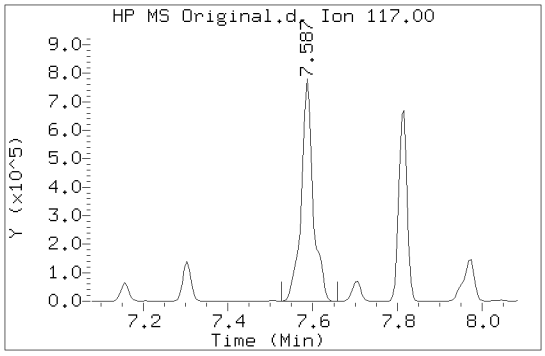

**AFTER**
MASS
88
AREA
337074
HEIGHT
250889
25-Jun-2024
19:31



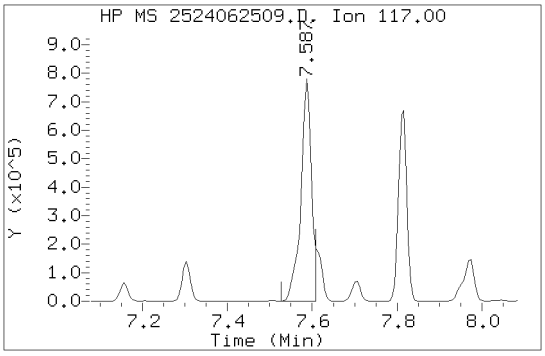

## Pentachloroethane (76-01-7)

Reason Code: MP

**BEFORE**
MASS
117
AREA
1519811
HEIGHT
780016
25-Jun-2024
18:25




**AFTER**
MASS
117
AREA
1367796
HEIGHT
780016
25-Jun-2024
19:31



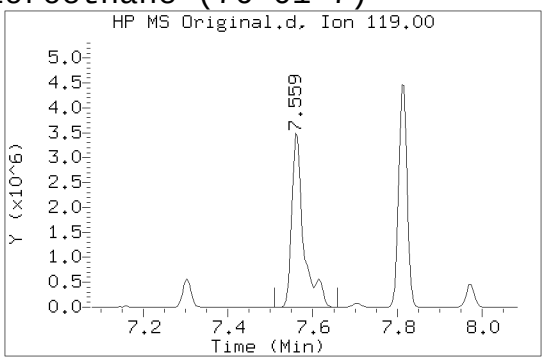
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Inj Date : 25-JUN-2024 13:05
InstruID : ms25.i
LabSampID : 1239

## Pentachloroethane (76-01-7)

Reason Code: MP

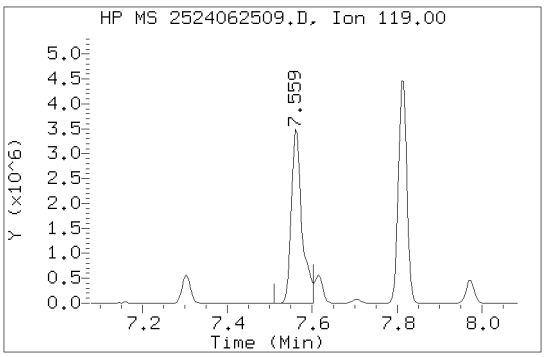
**BEFORE**

MASS
119
AREA
6869922
HEIGHT
3499520
25-Jun-2024
18:25



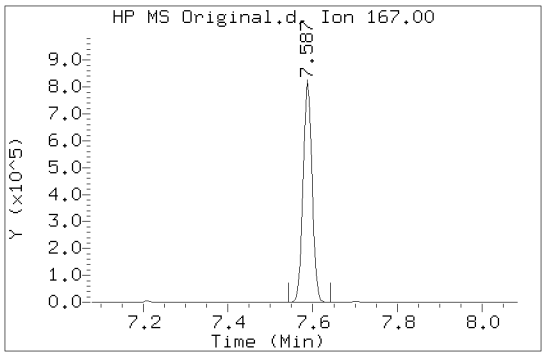

**AFTER**

MASS
119
AREA
6197946
HEIGHT
3499520
25-Jun-2024
19:31



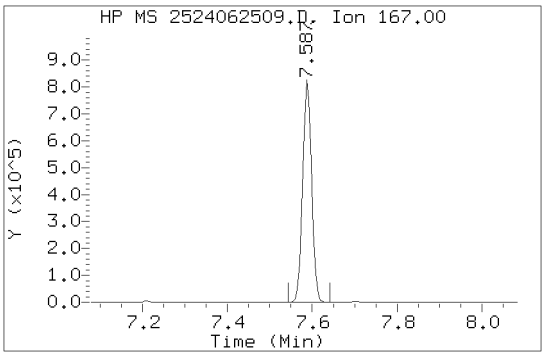

**BEFORE**

MASS
167
AREA
1212018
HEIGHT
826368
25-Jun-2024
18:25




**AFTER**

MASS
167
AREA
1212018
HEIGHT
826368
25-Jun-2024
19:31



# UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406250
Inj Date: 25-JUN-2024 13:05
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062515ICVQ.D Page 1
Report Date: 25-Jun-2024 19:30

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062515ICV
Lab Smp Id: ICVQ
Inj Date : 25-JUN-2024 15:08
Operator : ILY Inst ID: ms25.i
Smp Info : ICVQ;;1;3;;ICVQ;1;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\25-8260b09.m
Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 15 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.497 | 1.497 | (0.359) | 251951 | 20.6685 | 20.6685 | |
| 2 Chloromethane | 50 | 1.644 | 1.645 | (0.394) | 208848 | 19.5473 | 19.5473 | |
| 3 Vinyl Chloride | 62 | 1.704 | 1.705 | (0.409) | 280887 | 20.3829 | 20.3829 | |
| 4 Bromomethane | 94 | 1.922 | 1.923 | (0.461) | 135606 | 20.2997 | 20.2997 | |
| 5 Chloroethane | 64 | 1.999 | 2.005 | (0.479) | 198690 | 21.1689 | 21.1689 | |
| 6 Pentane | 41 | 2.086 | 2.092 | (0.500) | 183202 | 20.7239 | 20.7239 | |
| 7 Trichlorofluoromethane | 101 | 2.092 | 2.103 | (0.502) | 384907 | 20.3916 | 20.3916 | |
| 8 Dichlorofluoromethane | 67 | 2.124 | 2.125 | (0.509) | 405133 | 23.1960 | 23.1960 | |
| 9 Ethyl Ether | 74 | 2.277 | 2.278 | (0.546) | 114503 | 21.5588 | 21.5588 | |
| 10 1,1-Dichloroethene | 61 | 2.413 | 2.409 | (0.579) | 241984 | 22.8323 | 22.8323 | |
| 12 Carbon Disulfide | 76 | 2.446 | 2.447 | (0.587) | 495835 | 21.6876 | 21.6876 | |
| 11 Freon 113 | 101 | 2.424 | 2.425 | (0.581) | 170212 | 22.8337 | 22.8337 | |
| 13 Iodomethane | 127 | 2.506 | 2.507 | (0.601) | 67585 | 16.7923 | 16.7923 | |
| 14 Acrolein | 56 | 2.599 | 2.600 | (0.623) | 272564 | 159.440 | 159.440 | |
| 16 3-Chloro-1-propene | 41 | 2.675 | 2.676 | (0.642) | 210672 | 22.9067 | 22.9067 | |
| 15 Isopropyl Alcohol | 45 | 2.654 | 2.654 | (0.636) | 58549 | 102.932 | 102.932 | |
| 17 Methylene Chloride | 84 | 2.735 | 2.741 | (0.656) | 192795 | 22.2700 | 22.2700 | |
| 18 Acetone | 58 | 2.757 | 2.752 | (0.661) | 103013 | 107.400 | 107.400 | |
| 19 Methyl acetate | 74 | 2.812 | 2.812 | (0.674) | 42205 | 21.1799 | 21.1799(Q) | |
| 20 trans-1,2-Dichloroethene | 61 | 2.828 | 2.829 | (0.678) | 238437 | 22.9700 | 22.9700 | |
| 21 Hexane | 57 | 2.861 | 2.867 | (0.686) | 364566 | 20.9440 | 20.9440 | |

Data File: 2524062515ICVQ.D
Report Date: 25-Jun-2024 19:30



| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | 2.872 | 2.872 | (0.689) | 547401 | 20.6913 | 20.6913 | |
| | 23 tert.- Butyl Alcohol | 59 | 2.899 | 2.889 | (0.695) | 107488 | 112.258 | 112.258 | |
| | 24 Acetonitrile | 41 | 3.019 | 3.020 | (0.724) | 118663 | 110.637 | 110.637 | |
| | 25 Diisopropyl ether | 45 | 3.063 | 3.063 | (0.734) | 518577 | 22.5098 | 22.5098 | |
| | 26 Chloroprene | 53 | 3.156 | 3.156 | (0.757) | 267398 | 22.8940 | 22.8940 | |
| | 27 1,1-Dichloroethane | 63 | 3.166 | 3.167 | (0.759) | 319400 | 22.5851 | 22.5851 | |
| | 28 Acrylonitrile | 53 | 3.194 | 3.194 | (0.766) | 419174 | 113.810 | 113.810(M) | MP |
| | 30 n-Propanol | 41 | 3.265 | 3.260 | (0.783) | 94386 | 207.961 | 207.961 | |
| | 29 Ethyl tert-butyl ether | 59 | 3.265 | 3.265 | (0.783) | 568234 | 23.2234 | 23.2234 | |
| | 31 Vinyl acetate | 86 | 3.276 | 3.276 | (0.785) | 45058 | 18.9056 | 18.9056(Q) | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.461 | 3.462 | (0.830) | 237502 | 22.5651 | 22.5651 | |
| | 33 2,2-Dichloropropane | 77 | 3.527 | 3.522 | (0.846) | 231583 | 20.5462 | 20.5462 | |
| M | 100 1,2-Dichloroethene, Total | 61 | | | | 475939 | 45.5351 | 45.5351 | |
| | 34 Bromochloromethane | 128 | 3.576 | 3.576 | (0.857) | 106286 | 23.4167 | 23.4167 | |
| | 35 Cyclohexane | 84 | 3.587 | 3.587 | (0.860) | 285137 | 22.5780 | 22.5780 | |
| | 36 Chloroform | 83 | 3.597 | 3.598 | (0.863) | 348031 | 22.7965 | 22.7965 | |
| | 37 Ethyl acetate | 43 | 3.636 | 3.642 | (0.872) | 183312 | 19.9738 | 19.9738 | |
| | 38 Methyl acrylate | 55 | 3.652 | 3.653 | (0.876) | 191793 | 22.6294 | 22.6294 | |
| | 39 Carbon Tetrachloride | 117 | 3.701 | 3.696 | (0.887) | 217824 | 19.6529 | 19.6529(M) | MP |
| | 40 Tetrahydrofuran | 42 | 3.696 | 3.696 | (0.886) | 275680 | 106.398 | 106.398 | |
| $ | 41 Dibromofluoromethane | 113 | 3.701 | 3.707 | (0.887) | 256125 | 29.4644 | 29.4644 | |
| | 42 1,1,1-Trichloroethane | 97 | 3.734 | 3.740 | (0.895) | 280959 | 23.6438 | 23.6438 | |
| | 43 2-Butanone | 72 | 3.761 | 3.767 | (0.902) | 137862 | 110.064 | 110.064(M) | MP |
| | 44 1,1-Dichloropropene | 75 | 3.799 | 3.800 | (0.911) | 251179 | 22.3464 | 22.3464 | |
| | 45 1-Chlorobutane | 41 | 3.821 | 3.822 | (0.916) | 155097 | 21.4567 | 21.4567 | |
| | 46 Heptane | 71 | 3.887 | 3.887 | (0.932) | 136483 | 20.8997 | 20.8997 | |
| | 48 Propionitrile | 54 | 3.941 | 3.942 | (0.945) | 155474 | 111.475 | 111.475 | |
| | 47 Benzene | 78 | 3.941 | 3.942 | (0.945) | 744196 | 21.5406 | 21.5406 | |
| | 49 Methacrylonitrile | 67 | 3.952 | 3.953 | (0.948) | 92810 | 22.1985 | 22.1985 | |
| | 50 tert-amyl methyl Ether | 73 | 3.974 | 3.975 | (0.953) | 542174 | 22.9549 | 22.9549 | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.018 | 4.013 | (0.963) | 262361 | 28.6313 | 28.6313(M) | MP |
| | 54 Isobutyl alcohol | 42 | 3.990 | 3.980 | (0.957) | 34211 | 163.562 | 163.562(QM) | MP |
| | 52 1,2-Dichloroethane | 62 | 4.056 | 4.056 | (0.973) | 236551 | 21.7806 | 21.7806 | |
| | 53 tert-Amyl Alcohol | 59 | 4.056 | 4.062 | (0.973) | 83872 | 114.168 | 114.168 | |
| * | 55 Fluorobenzene | 96 | 4.170 | 4.171 | (1.000) | 1101692 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.176 | 4.171 | (1.001) | 452639 | 20.3518 | 20.3518 | |
| | 57 Trichloroethene | 95 | 4.269 | 4.269 | (1.024) | 190652 | 21.8042 | 21.8042 | |
| | 58 Methyl cyclohexane | 83 | 4.274 | 4.275 | (0.692) | 304774 | 21.9417 | 21.9417 | |
| | 59 tert-Amyl Ethylether | 59 | 4.367 | 4.373 | (1.047) | 402469 | 19.7081 | 19.7081 | |
| | 60 Dibromomethane | 93 | 4.525 | 4.526 | (1.085) | 123469 | 22.3369 | 22.3369 | |
| | 61 1,2-Dichloropropane | 63 | 4.585 | 4.586 | (1.099) | 186337 | 22.4096 | 22.4096 | |
| | 62 Bromodichloromethane | 83 | 4.607 | 4.607 | (1.105) | 233572 | 20.3931 | 20.3931 | |
| | 63 Methyl methacrylate | 41 | 4.667 | 4.662 | (1.119) | 144674 | 21.9843 | 21.9843 | |
| | 65 2-Chloroethylvinyl ether | 63 | 4.934 | 4.935 | (1.183) | 120010 | 19.9453 | 19.9453 | |
| | 66 cis-1,3-Dichloropropene | 75 | 4.994 | 4.995 | (0.809) | 281300 | 19.5895 | 19.5895 | |
| | 67 Octane | 85 | 5.000 | 5.000 | (0.810) | 115653 | 21.9595 | 21.9595 | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 988189 | 29.1471 | 29.1471 | |
| | 69 Toluene | 92 | 5.153 | 5.153 | (0.835) | 450960 | 20.9859 | 20.9859 | |
| | 70 Chloroacetonitrile | 75 | 5.213 | 5.208 | (0.844) | 62587 | 116.835 | 116.835 | |
| | 71 2-Nitropropane | 41 | 5.300 | 5.300 | (0.859) | 216627 | 93.1119 | 93.1119 | |
| | 72 1,1-Dichloro-2-propanone | 63 | 5.316 | 5.317 | (0.861) | 21848 | 97.0977 | 97.0977(Q) | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.371 | 5.371 | (0.870) | 928220 | 109.950 | 109.950 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.409 | 5.410 | (0.876) | 266554 | 20.0483 | 20.0483 | |
| | 74 Tetrachloroethene | 164 | 5.409 | 5.410 | (0.876) | 172484 | 22.0433 | 22.0433 | |

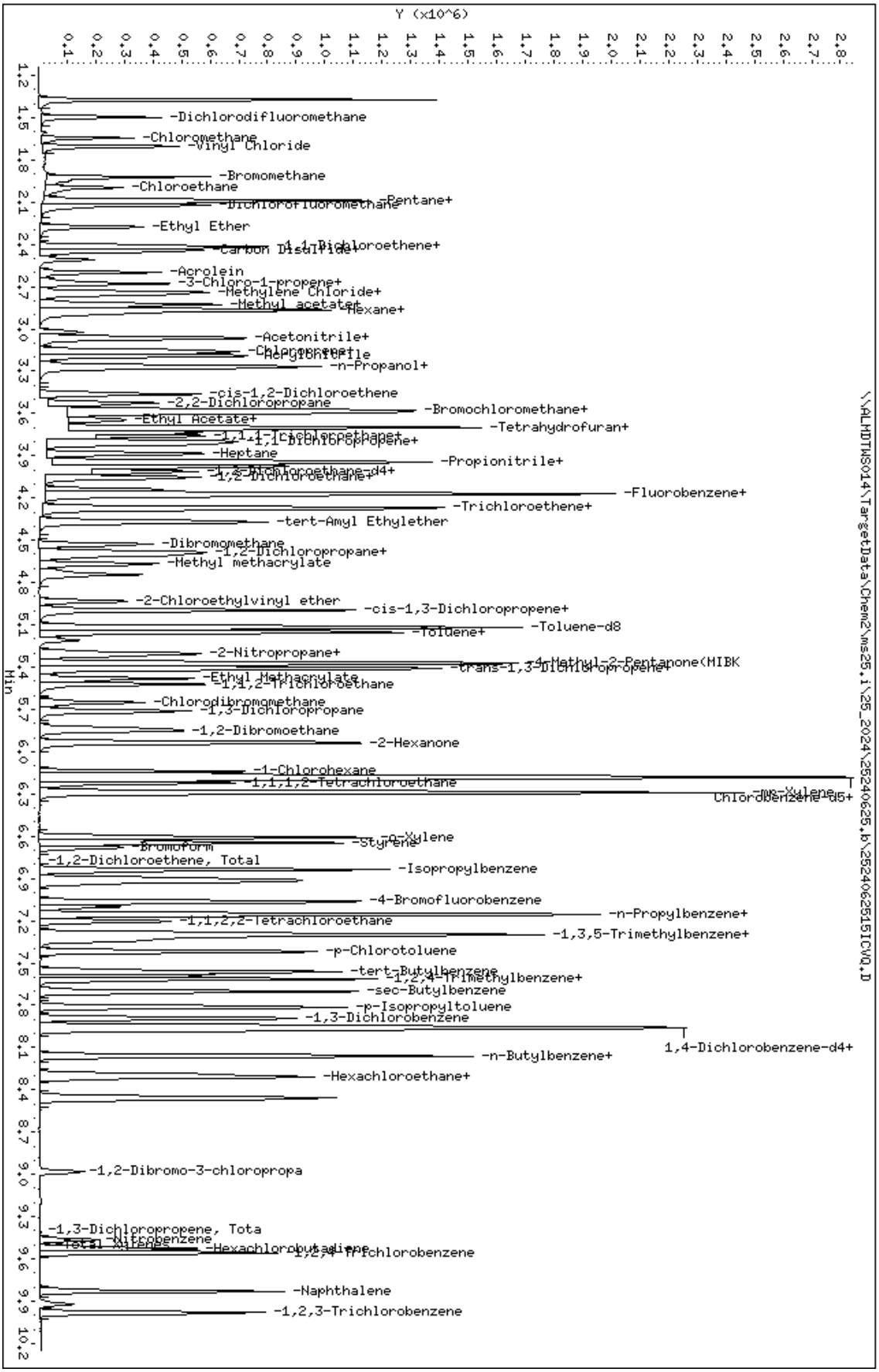
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Report Date: 25-Jun-2024 19:30



| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 76 Ethyl methacrylate | 69 | 5.480 | 5.481 | (0.888) | 253851 | 19.7911 | 19.7911 | |
| 77 1,1,2-Trichloroethane | 83 | 5.518 | 5.524 | (0.894) | 147105 | 22.2809 | 22.2809 | |
| 78 Chlorodibromomethane | 129 | 5.649 | 5.650 | (0.915) | 179731 | 19.4308 | 19.4308 | |
| 79 1,3-Dichloropropane | 76 | 5.715 | 5.710 | (0.926) | 297226 | 22.7852 | 22.7852 | |
| 80 1,2-Dibromoethane | 107 | 5.829 | 5.830 | (0.944) | 175686 | 20.1319 | 20.1319 | |
| 81 2-Hexanone | 43 | 5.933 | 5.933 | (0.961) | 623906 | 107.801 | 107.801 | |
| 82 1-Chlorohexane | 91 | 6.140 | 6.146 | (0.995) | 255005 | 22.5573 | 22.5573 | |
| * 83 Chlorobenzene-d5 | 82 | 6.173 | 6.174 | (1.000) | 428222 | 30.0000 | | |
| 85 Ethylbenzene | 106 | 6.189 | 6.190 | (1.003) | 268551 | 20.8965 | 20.8965 | |
| 84 Chlorobenzene | 112 | 6.184 | 6.184 | (1.002) | 479812 | 21.9107 | 21.9107 | |
| 86 1,1,1,2-Tetrachloroethane | 131 | 6.222 | 6.223 | (1.008) | 165593 | 20.2181 | 20.2181 | |
| 87 mp-Xylene | 106 | 6.288 | 6.288 | (1.019) | 633583 | 41.2141 | 41.2141 | |
| M 120 1,3-Dichloropropene, Total | 75 | | | | 547854 | 39.6378 | 39.6378 | |
| 88 o-Xylene | 106 | 6.609 | 6.610 | (1.071) | 296259 | 20.3295 | 20.3295 | |
| 89 Styrene | 104 | 6.648 | 6.648 | (0.836) | 476196 | 21.1423 | 21.1423 | |
| 90 Bromoform | 173 | 6.680 | 6.686 | (0.840) | 117468 | 18.5434 | 18.5434 | |
| 91 Isopropylbenzene | 105 | 6.839 | 6.839 | (0.860) | 748030 | 23.7053 | 23.7053 | |
| $ 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 306965 | 28.9025 | 28.9025 | |
| M 121 TOTAL XYLENES | 106 | | | | 929842 | 61.5436 | 61.5436 | |
| 94 n-Propylbenzene | 120 | 7.155 | 7.156 | (0.900) | 202709 | 21.8398 | 21.8398 | |
| 93 Bromobenzene | 156 | 7.155 | 7.156 | (0.900) | 194158 | 21.3906 | 21.3906 | |
| 95 1,1,2,2-Tetrachloroethane | 83 | 7.204 | 7.205 | (0.906) | 202733 | 22.4719 | 22.4719 | |
| 97 1,3,5-Trimethylbenzene | 105 | 7.302 | 7.303 | (0.918) | 558673 | 21.6275 | 21.6275 | |
| 96 o-Chlorotoluene | 91 | 7.291 | 7.292 | (0.917) | 534310 | 21.8801 | 21.8801 | |
| 98 1,2,3-Trichloropropane | 110 | 7.324 | 7.325 | (0.921) | 64224 | 22.0722 | 22.0722 | |
| 99 trans-1,4-Dichloro-2-butene | 53 | 7.346 | 7.341 | (0.924) | 54164 | 19.7417 | 19.7417(Q) | |
| 101 p-Chlorotoluene | 91 | 7.417 | 7.418 | (0.933) | 488613 | 22.0900 | 22.0900 | |
| 102 tert-Butylbenzene | 134 | 7.559 | 7.559 | (0.951) | 140218 | 22.6960 | 22.6960 | |
| 103 Pentachloroethane | 117 | 7.586 | 7.581 | (0.954) | 109789 | 17.8854 | 17.8854(QM) | MP |
| 104 1,2,4-Trimethylbenzene | 105 | 7.613 | 7.614 | (0.957) | 566890 | 20.6358 | 20.6358 | |
| 105 sec-Butylbenzene | 105 | 7.701 | 7.707 | (0.968) | 727916 | 22.8001 | 22.8001 | |
| 106 p-Isopropyltoluene | 134 | 7.815 | 7.816 | (0.983) | 160341 | 21.9313 | 21.9313 | |
| 107 1,3-Dichlorobenzene | 146 | 7.892 | 7.892 | (0.992) | 341074 | 22.3044 | 22.3044 | |
| * 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 383907 | 30.0000 | | |
| 109 1,4-Dichlorobenzene | 146 | 7.963 | 7.963 | (1.001) | 348388 | 21.8570 | 21.8570 | |
| 111 n-Butylbenzene | 134 | 8.159 | 8.160 | (1.026) | 146071 | 21.3796 | 21.3796(Q) | |
| 110 Benzyl Chloride | 126 | 8.159 | 8.160 | (1.026) | 60049 | 16.0397 | 16.0397(Q) | |
| 112 Hexachloroethane | 117 | 8.290 | 8.285 | (1.043) | 100711 | 18.6291 | 18.6291 | |
| 113 1,2-Dichlorobenzene | 146 | 8.312 | 8.311 | (1.045) | 325146 | 22.3217 | 22.3217 | |
| 114 1,2-Dibromo-3-chloropropane | 75 | 8.978 | 8.984 | (1.129) | 31004 | 18.2352 | 18.2352 | |
| 115 Nitrobenzene | 77 | 9.463 | 9.464 | (1.190) | 86105 | 165.714 | 165.714 | |
| 116 Hexachlorobutadiene | 225 | 9.529 | 9.524 | (1.198) | 100478 | 20.9968 | 20.9968 | |
| 117 1,2,4-Trichlorobenzene | 180 | 9.556 | 9.556 | (1.202) | 225852 | 23.4132 | 23.4132 | |
| 118 Naphthalene | 128 | 9.829 | 9.829 | (1.236) | 556398 | 19.8177 | 19.8177 | |
| 119 1,2,3-Trichlorobenzene | 180 | 9.982 | 9.982 | (1.255) | 207382 | 19.3142 | 19.3142 | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

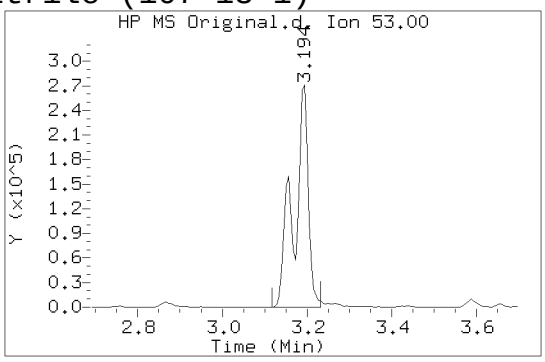

Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-Carbon Disulfide+
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Hexane+
-Acetonitrile+
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Tetrahydrofuran+
-Ethyl Acetate+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene+
-Toluene-d8
-2-Nitropropane+
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
-m,p-Xylene
-o-Xylene
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,1,2,2-Tetrachloroethane
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Nitrobenzene
-Total Xylenes
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
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Client ID:
Sample Info: ICVQ;;1;3;;ICVQ;1;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: ILY
Column diameter: 0.25
Page 1

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Inj Date : 25-JUN-2024 15:08
InstruID : ms25.i
LabSampID : ICVQ

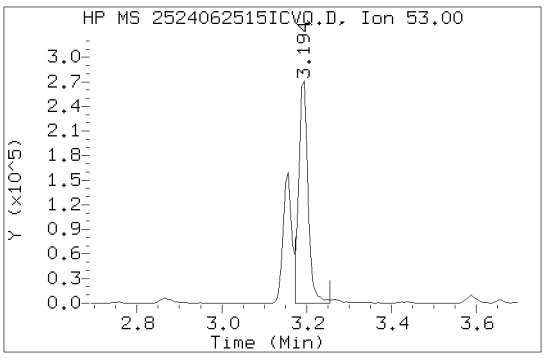
## Acrylonitrile (107-13-1)

Reason Code: MP

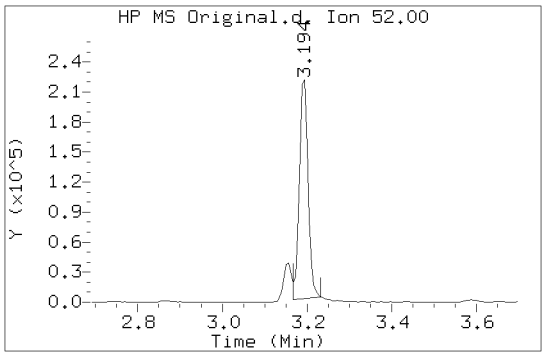
BEFORE
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53
AREA
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HEIGHT
271232
25-Jun-2024
19:15



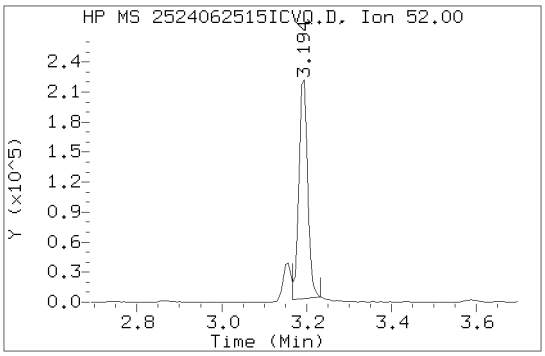

AFTER
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25-Jun-2024
19:30



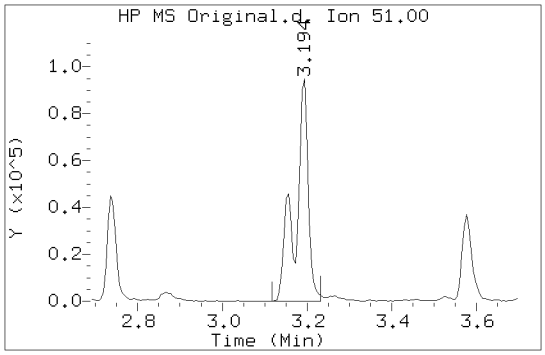

BEFORE
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HEIGHT
218548
25-Jun-2024
19:15



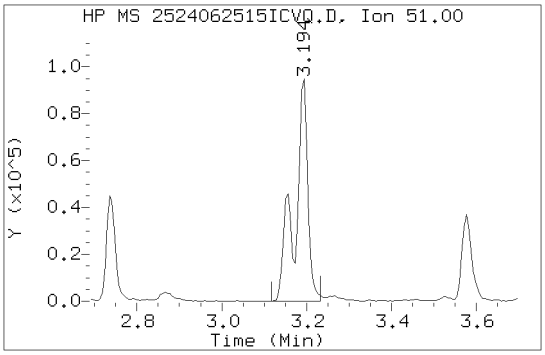

AFTER
MASS
52
AREA
316707
HEIGHT
218548
25-Jun-2024
19:30




BEFORE
MASS
51
AREA
202318
HEIGHT
94832
25-Jun-2024
19:15



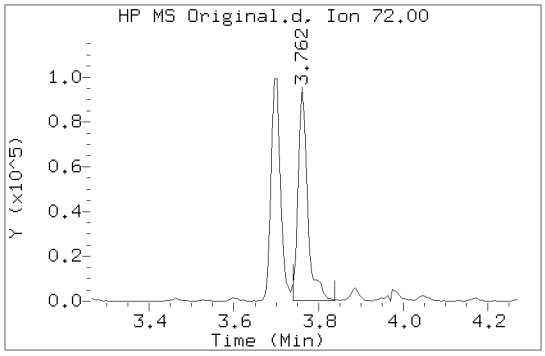

AFTER
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HEIGHT
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25-Jun-2024
19:30



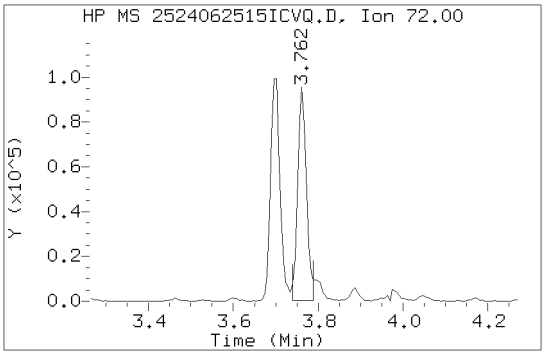

## 2-Butanone (78-93-3)

Reason Code: MP

BEFORE
MASS
72
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HEIGHT
95221
25-Jun-2024
19:15




AFTER
MASS
72
AREA
137862
HEIGHT
95221
25-Jun-2024
19:30



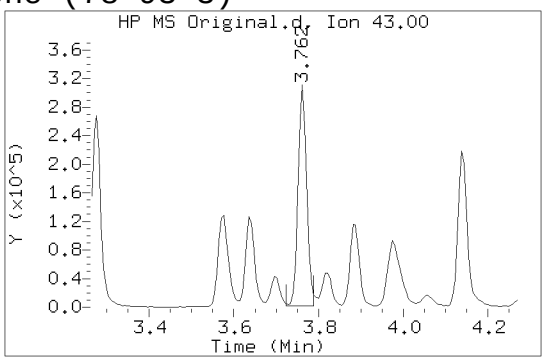
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Inj Date : 25-JUN-2024 15:08
InstruID : ms25.i
LabSampID : ICVQ

## 2-Butanone (78-93-3)

Reason Code: MP

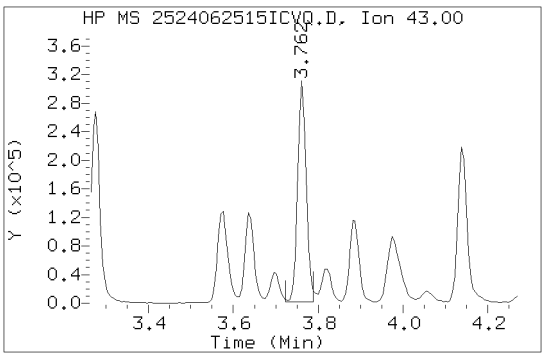
**BEFORE**

MASS
43
AREA
438170
HEIGHT
309348
25-Jun-2024
19:15




**AFTER**

MASS
43
AREA
438170
HEIGHT
309348
25-Jun-2024
19:30

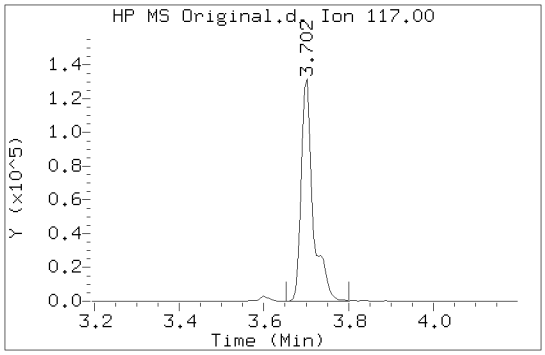



## Carbon Tetrachloride (56-23-5)

Reason Code: MP

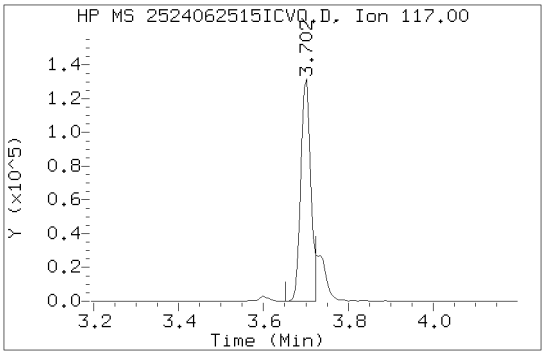
**BEFORE**

MASS
117
AREA
258670
HEIGHT
131712
25-Jun-2024
19:15



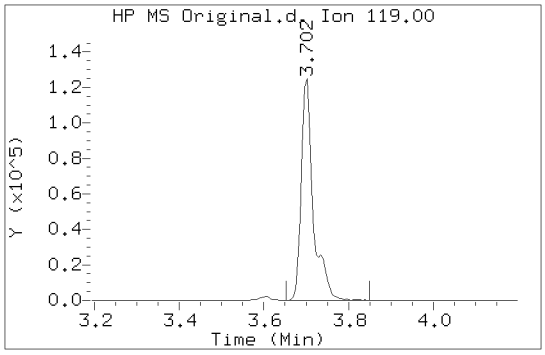

**AFTER**

MASS
117
AREA
217824
HEIGHT
131712
25-Jun-2024
19:30



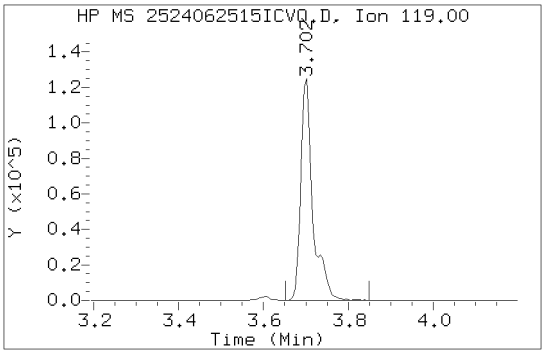

**BEFORE**

MASS
119
AREA
248093
HEIGHT
124944
25-Jun-2024
19:15



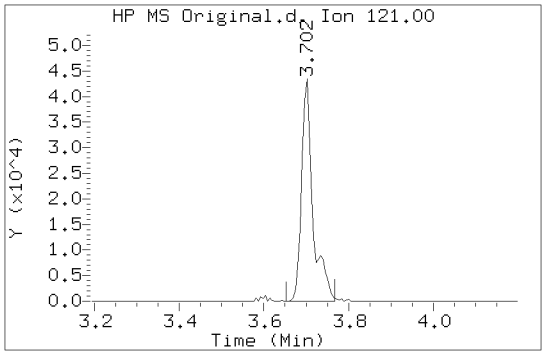

**AFTER**

MASS
119
AREA
248093
HEIGHT
124944
25-Jun-2024
19:30



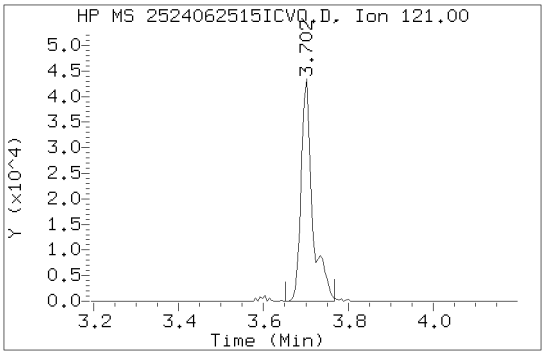

**BEFORE**

MASS
121
AREA
81141
HEIGHT
43440
25-Jun-2024
19:15




**AFTER**

MASS
121
AREA
81141
HEIGHT
43440
25-Jun-2024
19:30

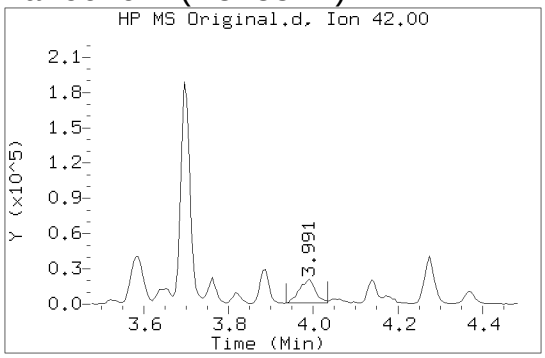


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Inj Date : 25-JUN-2024 15:08
InstruID : ms25.i
LabSampID : ICVQ

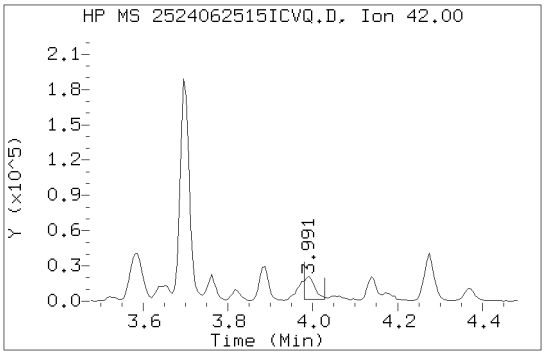
## Isobutyl alcohol (78-83-1)

Reason Code: MP

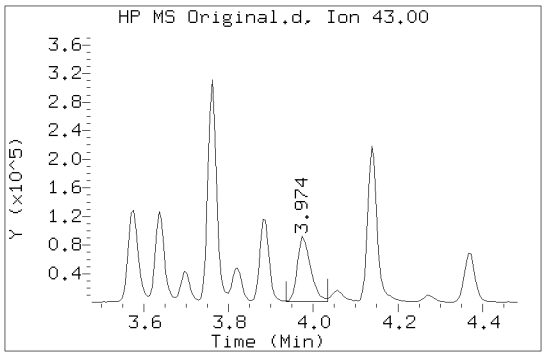
BEFORE
MASS
42
AREA
52636
HEIGHT
20290
25-Jun-2024
19:15



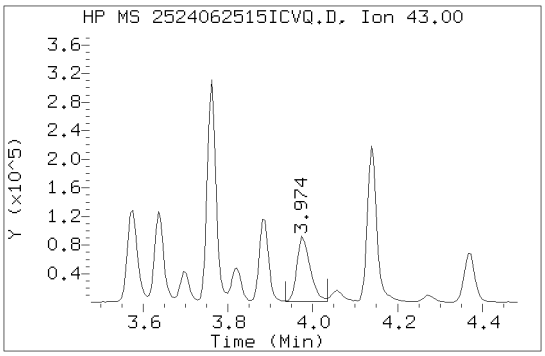

AFTER
MASS
42
AREA
34211
HEIGHT
19874
25-Jun-2024
19:30



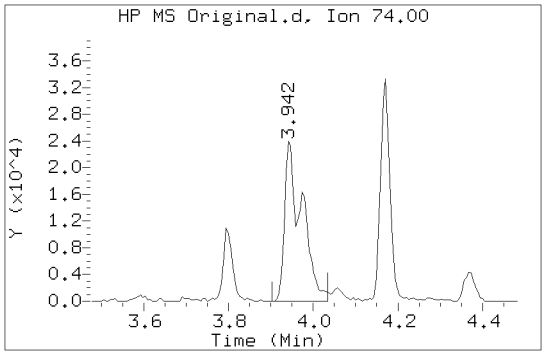

BEFORE
MASS
43
AREA
201412
HEIGHT
92297
25-Jun-2024
19:15



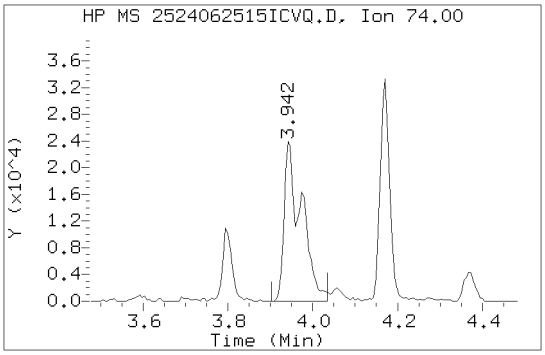

AFTER
MASS
43
AREA
201412
HEIGHT
92297
25-Jun-2024
19:30




BEFORE
MASS
74
AREA
68348
HEIGHT
23944
25-Jun-2024
19:15



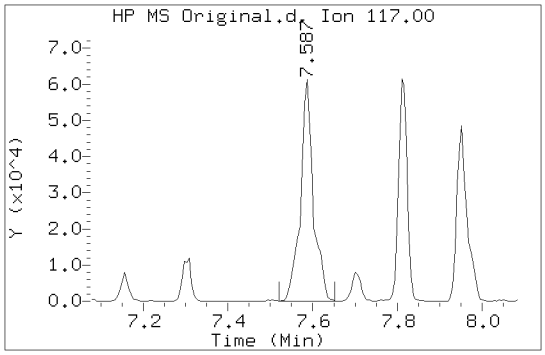

AFTER
MASS
74
AREA
68348
HEIGHT
23944
25-Jun-2024
19:30



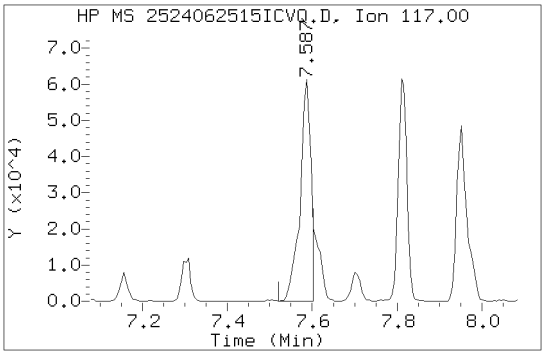

## Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
MASS
117
AREA
129320
HEIGHT
61344
25-Jun-2024
19:15




AFTER
MASS
117
AREA
109789
HEIGHT
61344
25-Jun-2024
19:30

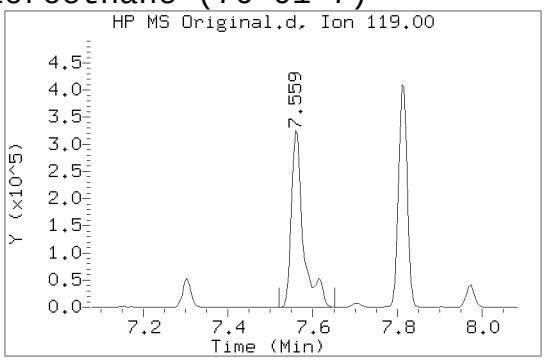


Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062515ICV
Inj Date : 25-JUN-2024 15:08
InstruID : ms25.i
LabSampID : ICVQ

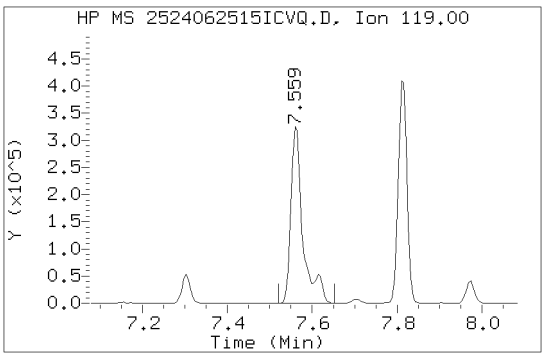
## Pentachloroethane (76-01-7)

Reason Code: MP

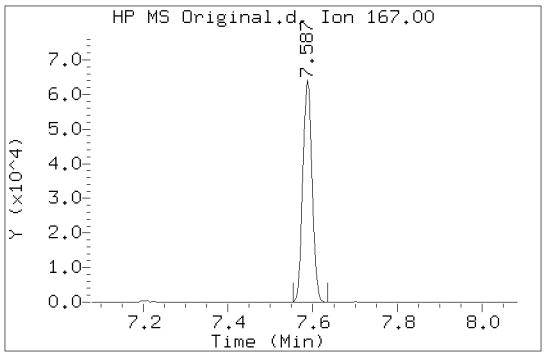
BEFORE
MASS
119
AREA
643920
HEIGHT
325696
25-Jun-2024
19:15



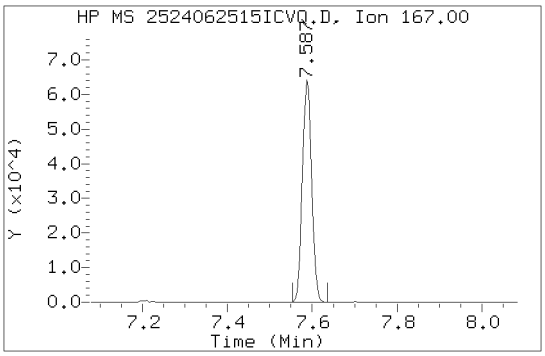

AFTER
MASS
119
AREA
643920
HEIGHT
325696
25-Jun-2024
19:30




BEFORE
MASS
167
AREA
98097
HEIGHT
64208
25-Jun-2024
19:15



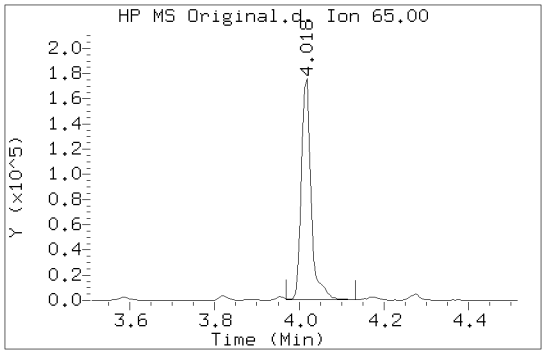

AFTER
MASS
167
AREA
98097
HEIGHT
64208
25-Jun-2024
19:30



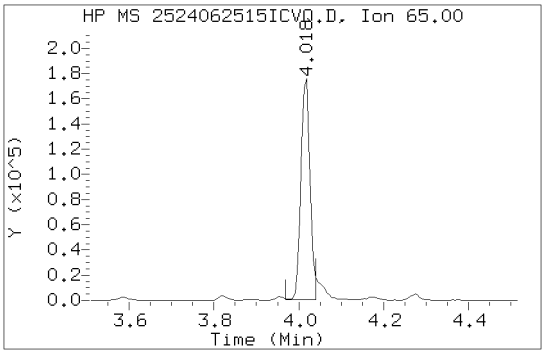

## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

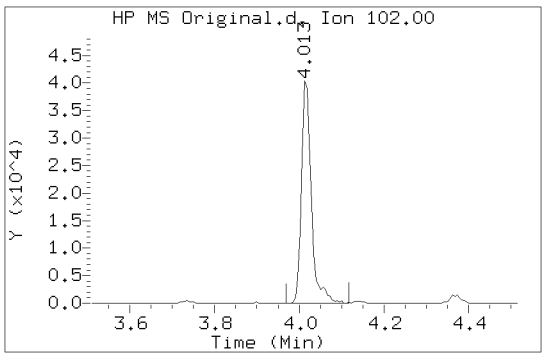
BEFORE
MASS
65
AREA
281156
HEIGHT
175231
25-Jun-2024
19:15



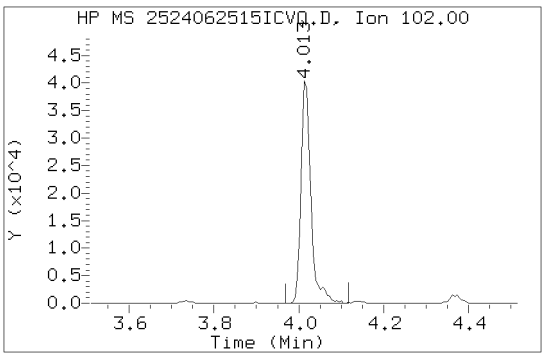

AFTER
MASS
65
AREA
262361
HEIGHT
175231
25-Jun-2024
19:30




BEFORE
MASS
102
AREA
66020
HEIGHT
40384
25-Jun-2024
19:15




AFTER
MASS
102
AREA
66020
HEIGHT
40384
25-Jun-2024
19:30



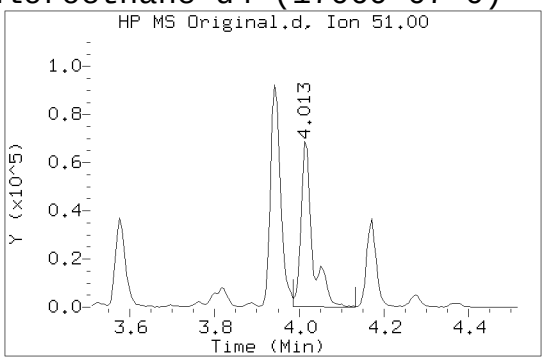
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Inj Date : 25-JUN-2024 15:08
InstruID : ms25.i
LabSampID : ICVQ

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

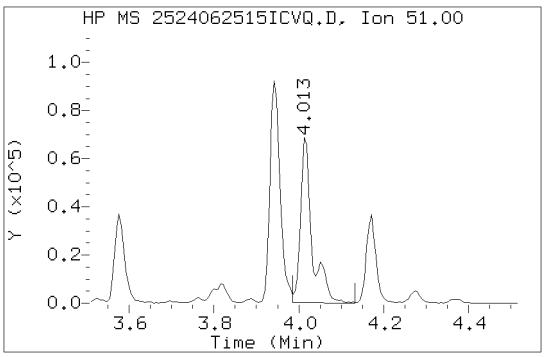
BEFORE

MASS
51
AREA
131671
HEIGHT
68658
25-Jun-2024
19:15




AFTER

MASS
51
AREA
131671
HEIGHT
68658
25-Jun-2024
19:30



# UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:30
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406251
Inj Date: 25-JUN-2024 15:08
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062532.D Page 1
Report Date: 25-Jun-2024 21:56

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062532.D
Lab Smp Id: 1801
Inj Date : 25-JUN-2024 20:54
Operator : ILY Inst ID: ms25.i
Smp Info : 1801;;1;;;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\25-8260b09.m
Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 31 QC Sample: ENDCCV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.497 | 1.497 | (0.359) | 525294 | 45.8314 | 45.8314 | |
| 2 Chloromethane | 50 | 1.644 | 1.645 | (0.394) | 479677 | 47.9181 | 47.9181 | |
| 3 Vinyl Chloride | 62 | 1.704 | 1.705 | (0.409) | 607277 | 46.8693 | 46.8693 | |
| 4 Bromomethane | 94 | 1.922 | 1.923 | (0.461) | 329775 | 53.2020 | 53.2020 | |
| 5 Chloroethane | 64 | 2.004 | 2.005 | (0.481) | 405653 | 46.3273 | 46.3273 | |
| 6 Pentane | 41 | 2.092 | 2.092 | (0.502) | 324450 | 39.9703 | 39.9703 | |
| 7 Trichlorofluoromethane | 101 | 2.097 | 2.103 | (0.503) | 810436 | 45.6648 | 45.6648 | |
| 8 Dichlorofluoromethane | 67 | 2.124 | 2.125 | (0.509) | 867118 | 52.8033 | 52.8033 | |
| 9 Ethyl Ether | 74 | 2.277 | 2.278 | (0.546) | 272722 | 54.6128 | 54.6128 | |
| 10 1,1-Dichloroethene | 61 | 2.414 | 2.409 | (0.579) | 508553 | 51.0347 | 51.0347 | |
| 12 Carbon Disulfide | 76 | 2.446 | 2.447 | (0.587) | 1095807 | 50.9771 | 50.9771 | |
| 11 Freon 113 | 101 | 2.424 | 2.425 | (0.581) | 337214 | 48.1126 | 48.1126 | |
| 13 Iodomethane | 127 | 2.506 | 2.507 | (0.601) | 181958 | 47.1306 | 47.1306 | |
| 14 Acrolein | 56 | 2.599 | 2.600 | (0.623) | 408273 | 254.008 | 254.008 | |
| 16 3-Chloro-1-propene | 41 | 2.681 | 2.676 | (0.643) | 437614 | 50.3967 | 50.3967 | |
| 15 Isopropyl Alcohol | 45 | 2.654 | 2.654 | (0.636) | 131858 | 250.983 | 250.983 | |
| 17 Methylene Chloride | 84 | 2.741 | 2.741 | (0.657) | 438346 | 53.8528 | 53.8528 | |
| 18 Acetone | 58 | 2.757 | 2.752 | (0.661) | 224851 | 249.331 | 249.331 | |
| 19 Methyl acetate | 74 | 2.817 | 2.812 | (0.676) | 101212 | 54.6756 | 54.6756 | |
| 20 trans-1,2-Dichloroethene | 61 | 2.828 | 2.829 | (0.678) | 518305 | 53.1055 | 53.1055 | |
| 21 Hexane | 57 | 2.866 | 2.867 | (0.687) | 711782 | 43.8068 | 43.8068 | |

Data File: 2524062532.D
Report Date: 25-Jun-2024 21:56



| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | 2.872 | 2.872 | (0.689) | 1267674 | 50.6252 | 50.6252 | |
| | 23 tert.- Butyl Alcohol | 59 | 2.894 | 2.889 | (0.694) | 246956 | 274.312 | 274.312 | |
| | 24 Acetonitrile | 41 | 3.019 | 3.020 | (0.724) | 280006 | 277.663 | 277.663 | |
| | 25 Diisopropyl ether | 45 | 3.063 | 3.063 | (0.734) | 1203908 | 55.5801 | 55.5801 | |
| | 26 Chloroprene | 53 | 3.156 | 3.156 | (0.757) | 591465 | 53.8591 | 53.8591 | |
| | 27 1,1-Dichloroethane | 63 | 3.172 | 3.167 | (0.761) | 713253 | 53.6411 | 53.6411 | |
| | 28 Acrylonitrile | 53 | 3.188 | 3.194 | (0.765) | 981416 | 283.404 | 283.404(M) | MP |
| | 30 n-Propanol | 41 | 3.265 | 3.260 | (0.783) | 218709 | 512.517 | 512.517 | |
| | 29 Ethyl tert-butyl ether | 59 | 3.265 | 3.265 | (0.783) | 1299982 | 56.5071 | 56.5071 | |
| | 31 Vinyl acetate | 86 | 3.276 | 3.276 | (0.785) | 105989 | 46.7240 | 46.7240(Q) | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.461 | 3.462 | (0.830) | 531630 | 53.7214 | 53.7214 | |
| | 33 2,2-Dichloropropane | 77 | 3.527 | 3.522 | (0.846) | 446069 | 42.0914 | 42.0914 | |
| M | 100 1,2-Dichloroethene, Total | 61 | | | | 1049935 | 106.827 | 106.827 | |
| | 34 Bromochloromethane | 128 | 3.576 | 3.576 | (0.857) | 242746 | 56.8813 | 56.8813 | |
| | 35 Cyclohexane | 84 | 3.587 | 3.587 | (0.860) | 585418 | 49.3020 | 49.3020 | |
| | 36 Chloroform | 83 | 3.603 | 3.598 | (0.864) | 784870 | 54.6784 | 54.6784 | |
| | 37 Ethyl acetate | 43 | 3.636 | 3.642 | (0.872) | 429365 | 49.8859 | 49.8859 | |
| | 38 Methyl acrylate | 55 | 3.652 | 3.653 | (0.876) | 441224 | 55.3689 | 55.3689 | |
| | 39 Carbon Tetrachloride | 117 | 3.701 | 3.696 | (0.887) | 499575 | 47.3403 | 47.3403(M) | MP |
| | 40 Tetrahydrofuran | 42 | 3.696 | 3.696 | (0.886) | 658634 | 270.358 | 270.358 | |
| $ | 41 Dibromofluoromethane | 113 | 3.707 | 3.707 | (0.889) | 238727 | 29.2088 | 29.2088 | |
| | 42 1,1,1-Trichloroethane | 97 | 3.734 | 3.740 | (0.895) | 596876 | 53.4226 | 53.4226 | |
| | 43 2-Butanone | 72 | 3.761 | 3.767 | (0.902) | 313984 | 266.609 | 266.609(M) | MP |
| | 44 1,1-Dichloropropene | 75 | 3.799 | 3.800 | (0.911) | 538663 | 50.9692 | 50.9692 | |
| | 45 1-Chlorobutane | 41 | 3.821 | 3.822 | (0.916) | 338956 | 49.8736 | 49.8736 | |
| | 46 Heptane | 71 | 3.887 | 3.887 | (0.932) | 241675 | 39.3605 | 39.3605 | |
| | 48 Propionitrile | 54 | 3.941 | 3.942 | (0.945) | 370497 | 282.534 | 282.534 | |
| | 47 Benzene | 78 | 3.941 | 3.942 | (0.945) | 1660781 | 51.1268 | 51.1268 | |
| | 49 Methacrylonitrile | 67 | 3.952 | 3.953 | (0.948) | 216882 | 55.1721 | 55.1721 | |
| | 50 tert-amyl methyl Ether | 73 | 3.974 | 3.975 | (0.953) | 1268373 | 57.1151 | 57.1151 | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.018 | 4.013 | (0.963) | 252196 | 29.2716 | 29.2716(QM) | MP |
| | 54 Isobutyl alcohol | 42 | 3.990 | 3.980 | (0.957) | 112290 | 560.978 | 560.978(QM) | MP |
| | 52 1,2-Dichloroethane | 62 | 4.056 | 4.056 | (0.973) | 541498 | 53.0284 | 53.0284 | |
| | 53 tert-Amyl Alcohol | 59 | 4.056 | 4.062 | (0.973) | 181059 | 262.129 | 262.129 | |
| * | 55 Fluorobenzene | 96 | 4.170 | 4.171 | (1.000) | 1035841 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.176 | 4.171 | (1.001) | 892825 | 44.3524 | 44.3524 | |
| | 57 Trichloroethene | 95 | 4.269 | 4.269 | (1.024) | 414129 | 50.3734 | 50.3734 | |
| | 58 Methyl cyclohexane | 83 | 4.274 | 4.275 | (0.692) | 612081 | 48.8072 | 48.8072 | |
| | 59 tert-Amyl Ethylether | 59 | 4.367 | 4.373 | (1.047) | 970569 | 50.1385 | 50.1385 | |
| | 60 Dibromomethane | 93 | 4.525 | 4.526 | (1.085) | 288229 | 55.4586 | 55.4586 | |
| | 61 1,2-Dichloropropane | 63 | 4.585 | 4.586 | (1.099) | 427891 | 54.7311 | 54.7311 | |
| | 62 Bromodichloromethane | 83 | 4.607 | 4.607 | (1.105) | 537769 | 49.4596 | 49.4596 | |
| | 63 Methyl methacrylate | 41 | 4.667 | 4.662 | (1.119) | 355887 | 57.5178 | 57.5178 | |
| | 65 2-Chloroethylvinyl ether | 63 | 4.934 | 4.935 | (1.183) | 273371 | 47.7950 | 47.7950 | |
| | 66 cis-1,3-Dichloropropene | 75 | 4.994 | 4.995 | (0.809) | 665996 | 50.9131 | 50.9131 | |
| | 67 Octane | 85 | 5.000 | 5.000 | (0.810) | 199779 | 42.0144 | 42.0144 | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 933963 | 30.5118 | 30.5118 | |
| | 69 Toluene | 92 | 5.153 | 5.153 | (0.835) | 1004603 | 51.7805 | 51.7805 | |
| | 70 Chloroacetonitrile | 75 | 5.213 | 5.208 | (0.844) | 135807 | 280.797 | 280.797 | |
| | 71 2-Nitropropane | 41 | 5.300 | 5.300 | (0.859) | 543687 | 255.508 | 255.508 | |
| | 72 1,1-Dichloro-2-propanone | 63 | 5.316 | 5.317 | (0.861) | 52704 | 256.192 | 256.192(Q) | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.371 | 5.371 | (0.870) | 2153105 | 280.899 | 280.899 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.409 | 5.410 | (0.876) | 612827 | 50.5932 | 50.5932 | |
| | 74 Tetrachloroethene | 164 | 5.409 | 5.410 | (0.876) | 399230 | 56.5110 | 56.5110 | |

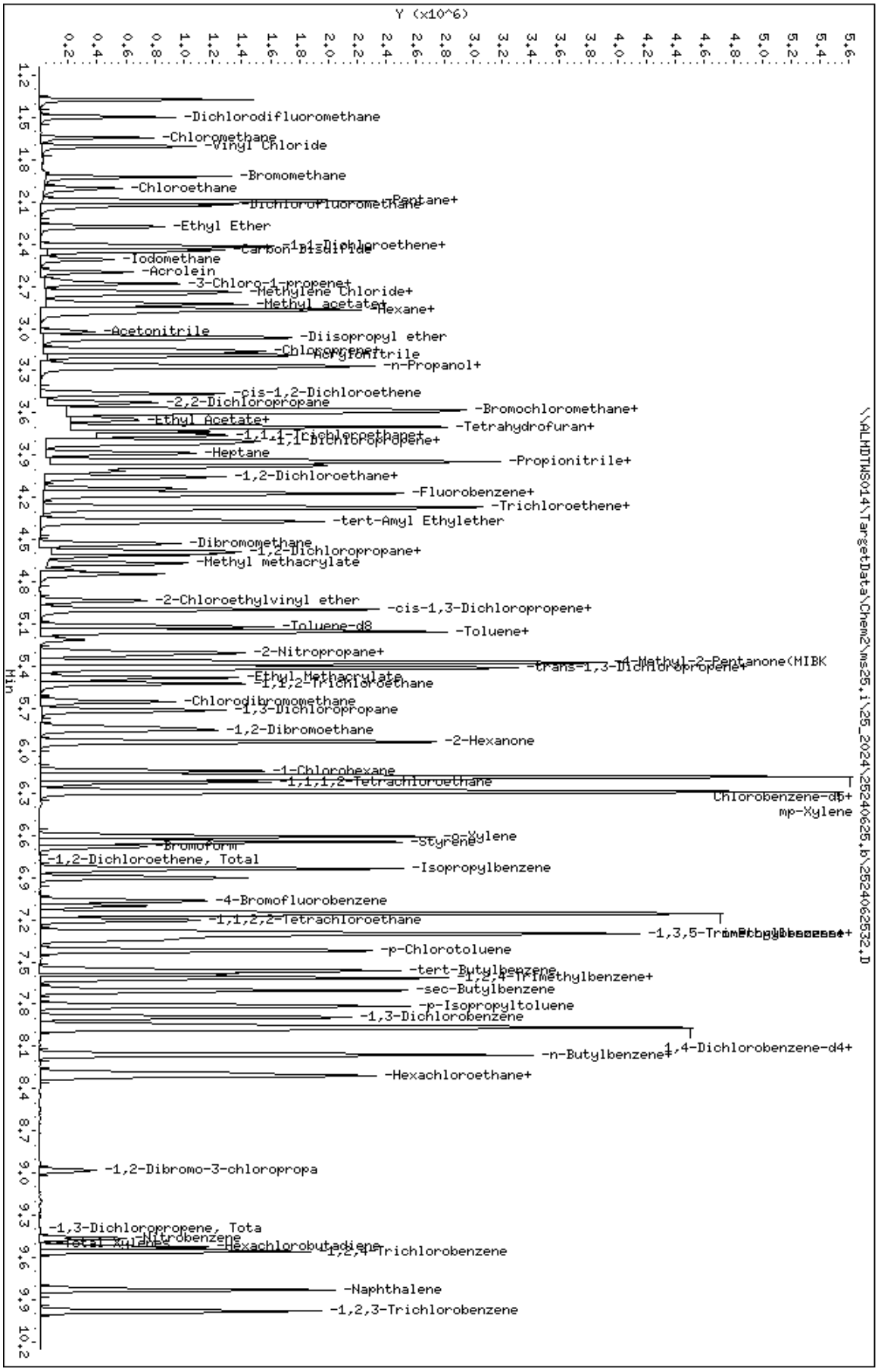
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Report Date: 25-Jun-2024 21:56



| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl methacrylate | 69 | 5.480 | 5.481 | (0.888) | 626868 | 53.5835 | 53.5835 | |
| | 77 1,1,2-Trichloroethane | 83 | 5.524 | 5.524 | (0.895) | 339266 | 56.9151 | 56.9151 | |
| | 78 Chlorodibromomethane | 129 | 5.649 | 5.650 | (0.915) | 440113 | 52.0694 | 52.0694 | |
| | 79 1,3-Dichloropropane | 76 | 5.715 | 5.710 | (0.926) | 686667 | 58.3036 | 58.3036 | |
| | 80 1,2-Dibromoethane | 107 | 5.829 | 5.830 | (0.944) | 422049 | 53.1777 | 53.1777 | |
| | 81 2-Hexanone | 43 | 5.933 | 5.933 | (0.961) | 1441053 | 274.053 | 274.053 | |
| | 82 1-Chlorohexane | 91 | 6.146 | 6.146 | (0.996) | 526774 | 51.6113 | 51.6113 | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.174 | (1.000) | 386622 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | 6.189 | 6.190 | (1.003) | 584392 | 50.5549 | 50.5549 | |
| | 84 Chlorobenzene | 112 | 6.184 | 6.184 | (1.002) | 1118023 | 56.5483 | 56.5483 | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | 6.222 | 6.223 | (1.008) | 390118 | 52.2450 | 52.2450 | |
| | 87 mp-Xylene | 106 | 6.288 | 6.288 | (1.019) | 1403951 | 102.305 | 102.305 | |
| M | 120 1,3-Dichloropropene, Total | 75 | | | | 1278823 | 101.506 | 101.506 | |
| | 88 o-Xylene | 106 | 6.610 | 6.610 | (1.071) | 674772 | 51.2855 | 51.2855 | |
| | 89 Styrene | 104 | 6.648 | 6.648 | (0.836) | 1109684 | 52.2144 | 52.2144 | |
| | 90 Bromoform | 173 | 6.680 | 6.686 | (0.840) | 300814 | 50.1219 | 50.1219 | |
| | 91 Isopropylbenzene | 105 | 6.839 | 6.839 | (0.860) | 1511311 | 51.0241 | 51.0241 | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 310618 | 31.2554 | 31.2554 | |
| M | 121 TOTAL XYLENES | 106 | | | | 2078723 | 153.590 | 153.590 | |
| | 94 n-Propylbenzene | 120 | 7.155 | 7.156 | (0.900) | 467813 | 53.8641 | 53.8641 | |
| | 93 Bromobenzene | 156 | 7.155 | 7.156 | (0.900) | 475757 | 56.0151 | 56.0151 | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | 7.204 | 7.205 | (0.906) | 494856 | 58.6199 | 58.6199 | |
| | 97 1,3,5-Trimethylbenzene | 105 | 7.302 | 7.303 | (0.918) | 1315592 | 54.4278 | 54.4278 | |
| | 96 o-Chlorotoluene | 91 | 7.292 | 7.292 | (0.917) | 1282789 | 56.1388 | 56.1388 | |
| | 98 1,2,3-Trichloropropane | 110 | 7.324 | 7.325 | (0.921) | 154034 | 56.5737 | 56.5737 | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | 7.346 | 7.341 | (0.924) | 124784 | 48.1811 | 48.1811(Q) | |
| | 101 p-Chlorotoluene | 91 | 7.417 | 7.418 | (0.933) | 1158317 | 55.9641 | 55.9641 | |
| | 102 tert-Butylbenzene | 134 | 7.564 | 7.559 | (0.951) | 322322 | 55.7554 | 55.7554 | |
| | 103 Pentachloroethane | 117 | 7.586 | 7.581 | (0.954) | 268063 | 46.1989 | 46.1989(QM) | MP |
| | 104 1,2,4-Trimethylbenzene | 105 | 7.614 | 7.614 | (0.957) | 1320277 | 51.5885 | 51.5885 | |
| | 105 sec-Butylbenzene | 105 | 7.701 | 7.707 | (0.968) | 1665313 | 55.7445 | 55.7445 | |
| | 106 p-Isopropyltoluene | 134 | 7.815 | 7.816 | (0.983) | 370347 | 54.1351 | 54.1351 | |
| | 107 1,3-Dichlorobenzene | 146 | 7.892 | 7.892 | (0.992) | 799382 | 55.8659 | 55.8659 | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 359232 | 30.0000 | | |
| | 109 1,4-Dichlorobenzene | 146 | 7.963 | 7.963 | (1.001) | 813676 | 54.5545 | 54.5545 | |
| | 111 n-Butylbenzene | 134 | 8.159 | 8.160 | (1.026) | 324917 | 50.8228 | 50.8228(Q) | |
| | 110 Benzyl Chloride | 126 | 8.159 | 8.160 | (1.026) | 121588 | 34.1616 | 34.1616(Q) | |
| | 112 Hexachloroethane | 117 | 8.290 | 8.285 | (1.043) | 246708 | 48.1401 | 48.1401 | |
| | 113 1,2-Dichlorobenzene | 146 | 8.312 | 8.311 | (1.045) | 780850 | 57.2885 | 57.2885 | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | 8.983 | 8.984 | (1.130) | 82002 | 50.7864 | 50.7864 | |
| | 115 Nitrobenzene | 77 | 9.463 | 9.464 | (1.190) | 250676 | 476.139 | 476.139 | |
| | 116 Hexachlorobutadiene | 225 | 9.529 | 9.524 | (1.198) | 204556 | 45.3862 | 45.3862 | |
| | 117 1,2,4-Trichlorobenzene | 180 | 9.556 | 9.556 | (1.202) | 503609 | 55.7932 | 55.7932 | |
| | 118 Naphthalene | 128 | 9.829 | 9.829 | (1.236) | 1345077 | 50.6923 | 50.6923 | |
| | 119 1,2,3-Trichlorobenzene | 180 | 9.982 | 9.982 | (1.255) | 498818 | 49.1889 | 49.1889 | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.




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Client ID:
Sample Info: 1801;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: ILY
Column diameter: 0.25

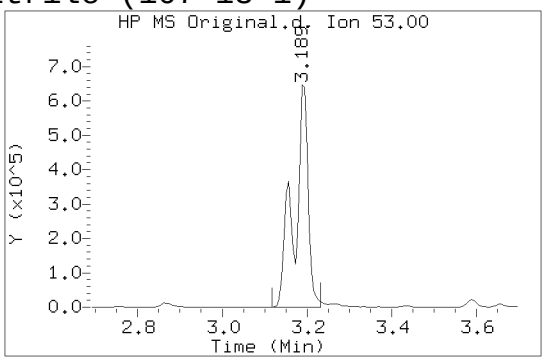
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InstruID : ms25.i
LabSampID : 1801

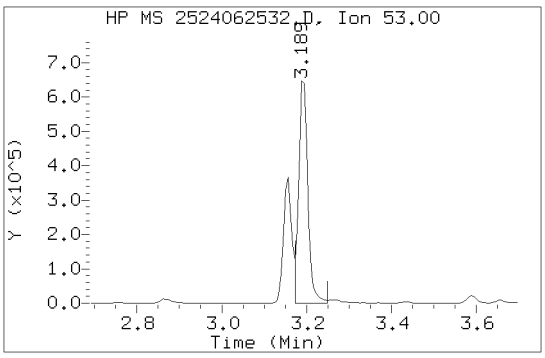
## Acrylonitrile (107-13-1)

Reason Code: MP

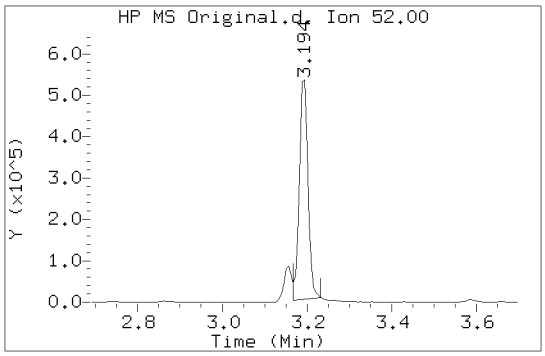
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25-Jun-2024
21:54



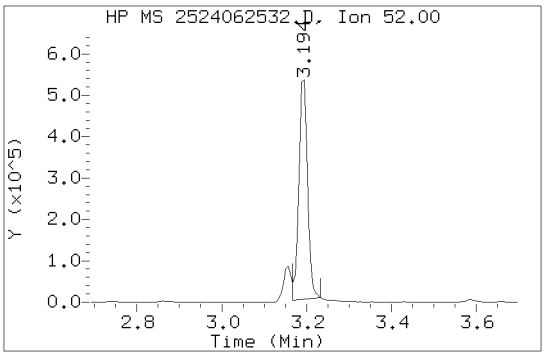

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25-Jun-2024
21:56



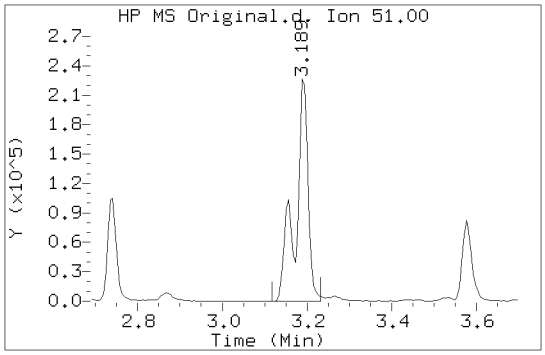

**BEFORE**
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25-Jun-2024
21:54



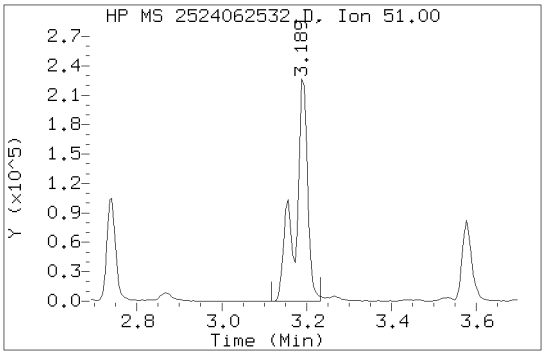

**AFTER**
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25-Jun-2024
21:56




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25-Jun-2024
21:54



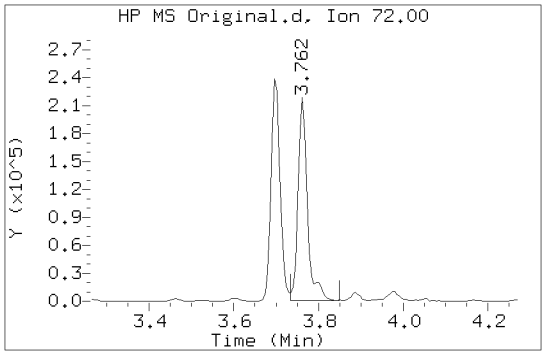

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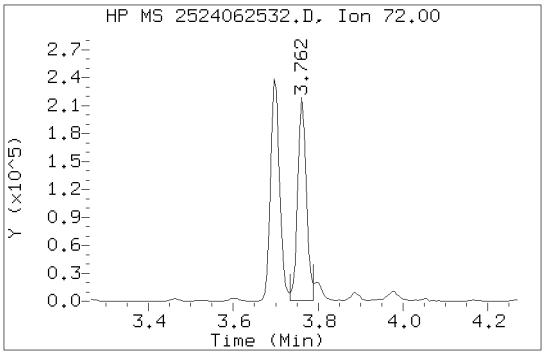

## 2-Butanone (78-93-3)

Reason Code: MP

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**AFTER**
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25-Jun-2024
21:56

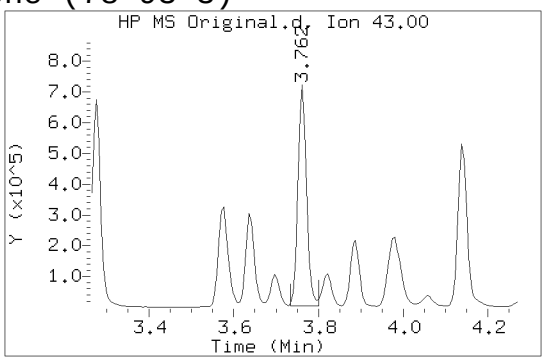


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LabSampID : 1801

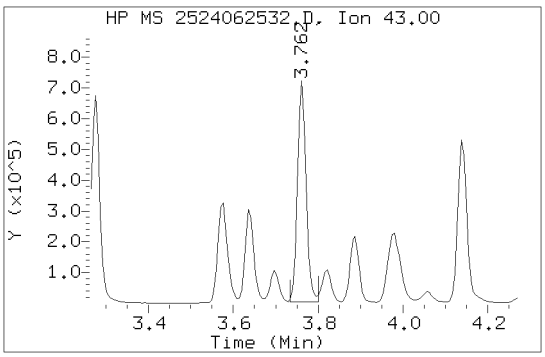
## 2-Butanone (78-93-3)

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25-Jun-2024
21:54



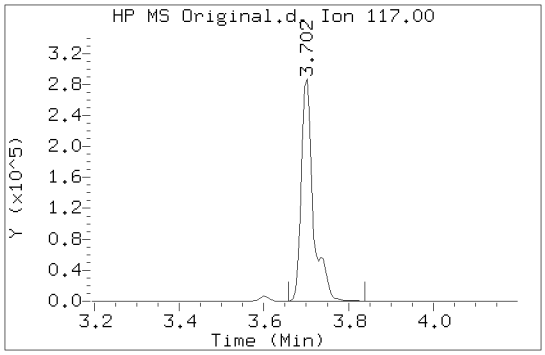

AFTER
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25-Jun-2024
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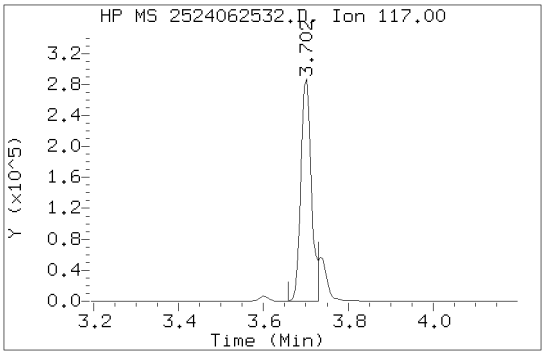

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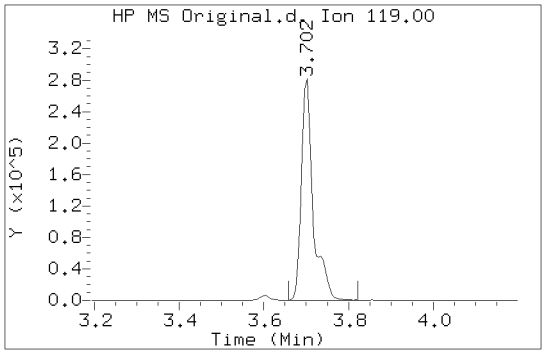
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HEIGHT
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25-Jun-2024
21:54



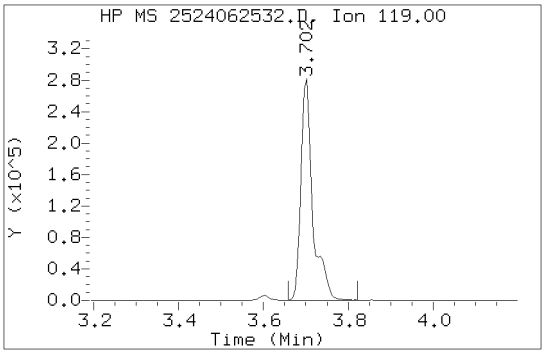

AFTER
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25-Jun-2024
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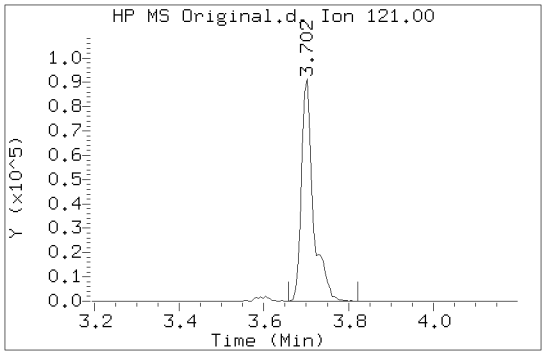

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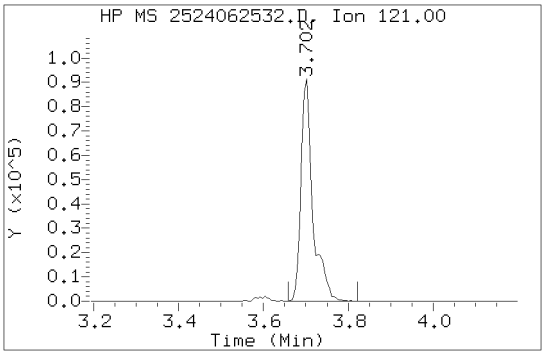

AFTER
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25-Jun-2024
21:56




BEFORE
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178729
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25-Jun-2024
21:54




AFTER
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25-Jun-2024
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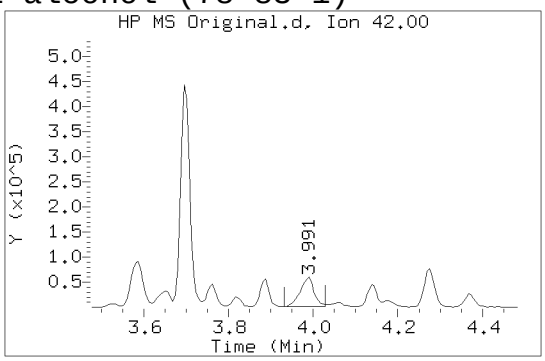


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LabSampID : 1801

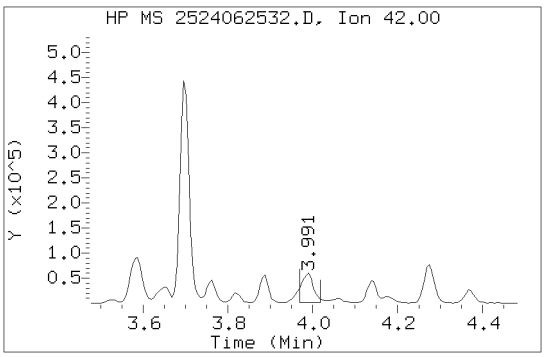
## Isobutyl alcohol (78-83-1)

Reason Code: MP

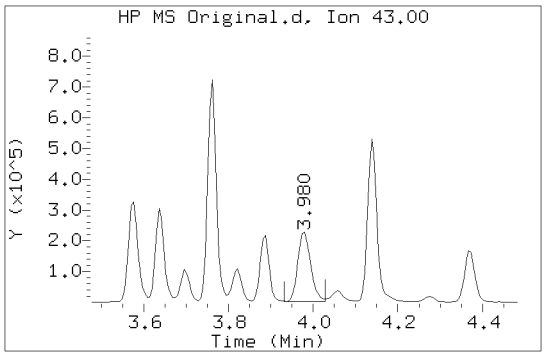
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25-Jun-2024
21:54



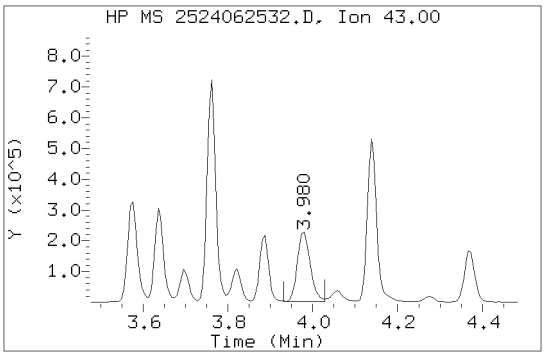

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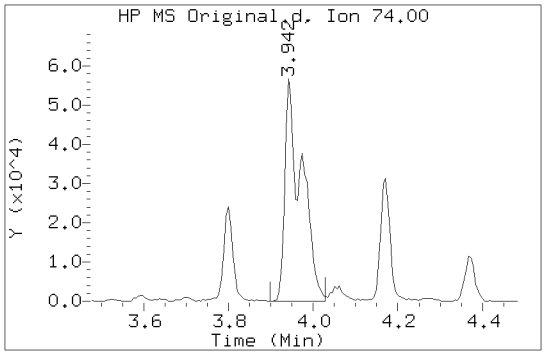

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25-Jun-2024
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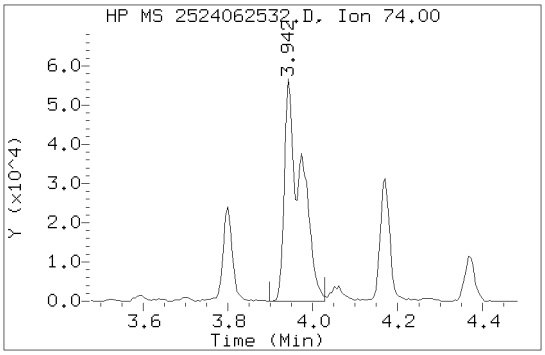

**AFTER**
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25-Jun-2024
21:56




**BEFORE**
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25-Jun-2024
21:54



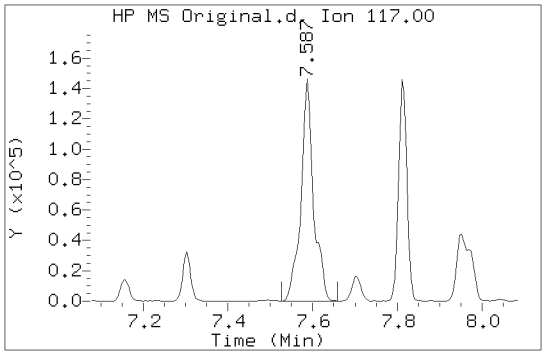

**AFTER**
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25-Jun-2024
21:56



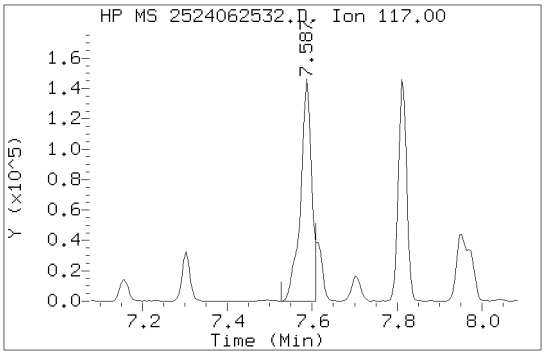

## Pentachloroethane (76-01-7)

Reason Code: MP

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25-Jun-2024
21:54




**AFTER**
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25-Jun-2024
21:56

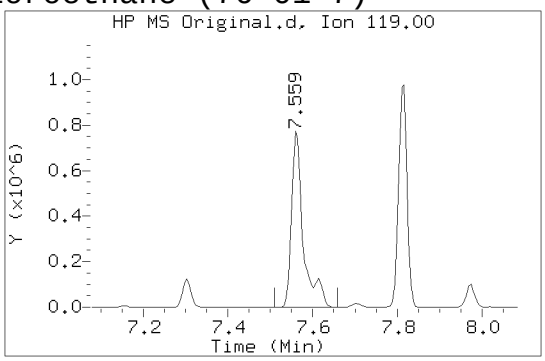


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Inj Date : 25-JUN-2024 20:54
InstruID : ms25.i
LabSampID : 1801

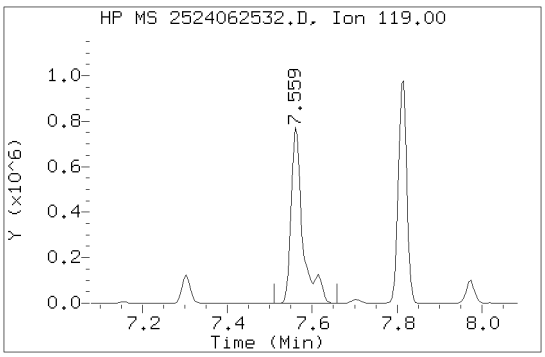
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Reason Code: MP

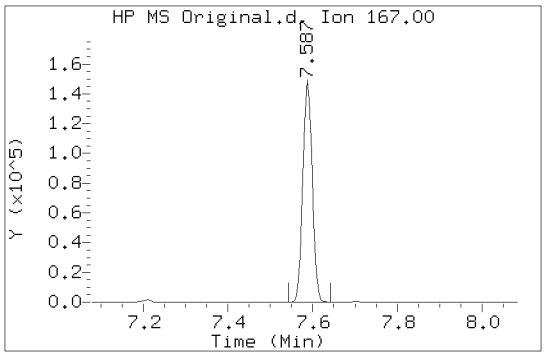
BEFORE
MASS
119
AREA
1497973
HEIGHT
773632
25-Jun-2024
21:54



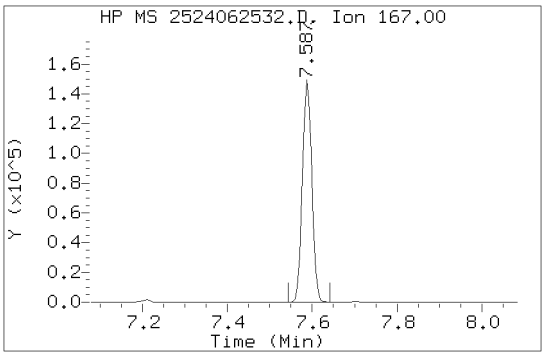

AFTER
MASS
119
AREA
1497973
HEIGHT
773632
25-Jun-2024
21:56




BEFORE
MASS
167
AREA
231107
HEIGHT
149376
25-Jun-2024
21:54



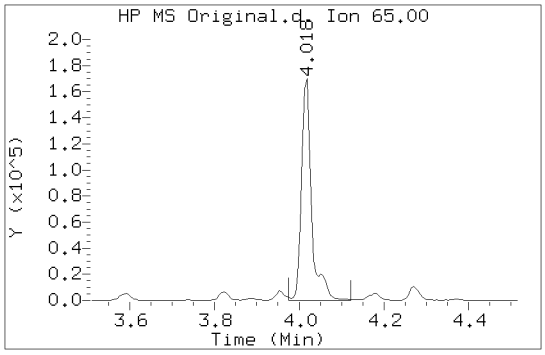

AFTER
MASS
167
AREA
231107
HEIGHT
149376
25-Jun-2024
21:56



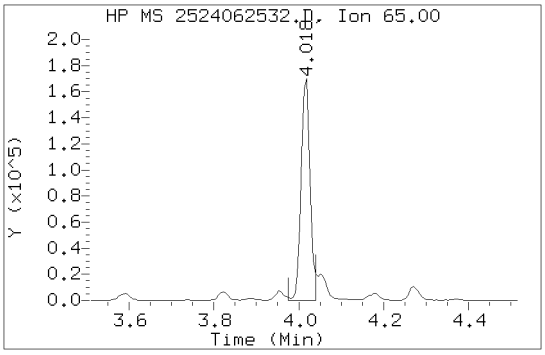

## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

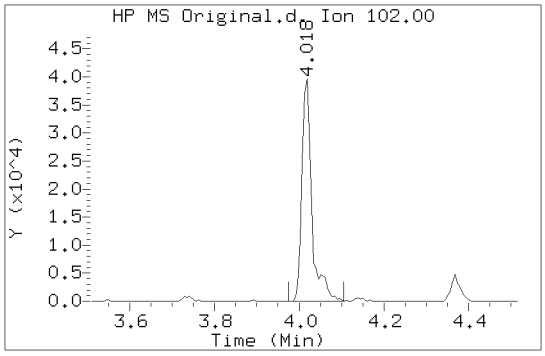
BEFORE
MASS
65
AREA
283959
HEIGHT
169984
25-Jun-2024
21:54



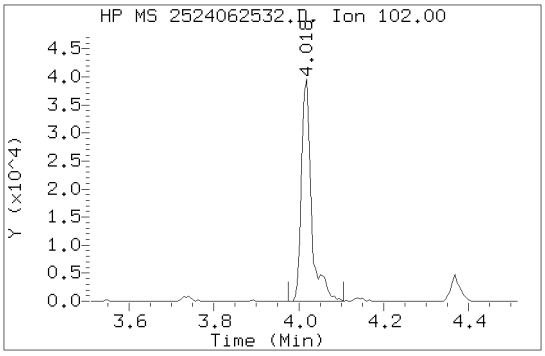

AFTER
MASS
65
AREA
252196
HEIGHT
169984
25-Jun-2024
21:56




BEFORE
MASS
102
AREA
65426
HEIGHT
39640
25-Jun-2024
21:54




AFTER
MASS
102
AREA
65426
HEIGHT
39640
25-Jun-2024
21:56



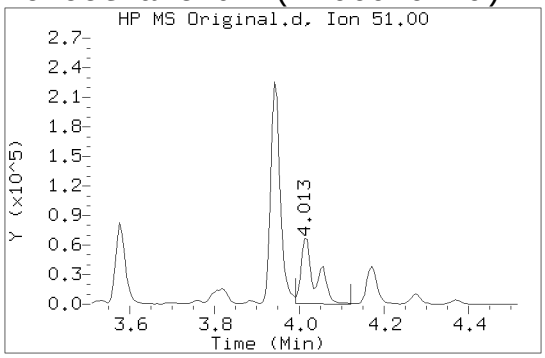
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Inj Date : 25-JUN-2024 20:54
InstruID : ms25.i
LabSampID : 1801

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

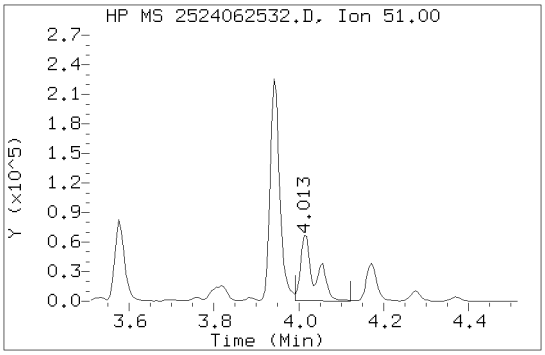
BEFORE

MASS
51
AREA
162769
HEIGHT
66260
25-Jun-2024
21:54




AFTER

MASS
51
AREA
162769
HEIGHT
66260
25-Jun-2024
21:56



# UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 21:56
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406253
Inj Date: 25-JUN-2024 20:54
Operator: ILY

There were no Unassigned peaks in this sample!

right solutions.
right partner.

# Raw Data 25240627A

## Volatiles by EPA 8260D

Workorder

**3366027**

Client

ALS Houston

Project

AHH131|HS24061196

07/09/2024

www.alsglobal.com

Data File: 2524062750.D Page 1
Report Date: 27-Jun-2024 18:51

ALS Environmental Services

BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062750.D
Lab Smp Id: 1000
Inj Date : 27-JUN-2024 18:40
Operator : BST Inst ID: ms25.i
Smp Info : 1000
Misc Info :
Comment :
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Meth Date : 13-Sep-2023 15:55 bsimms Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAMDTW7018

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

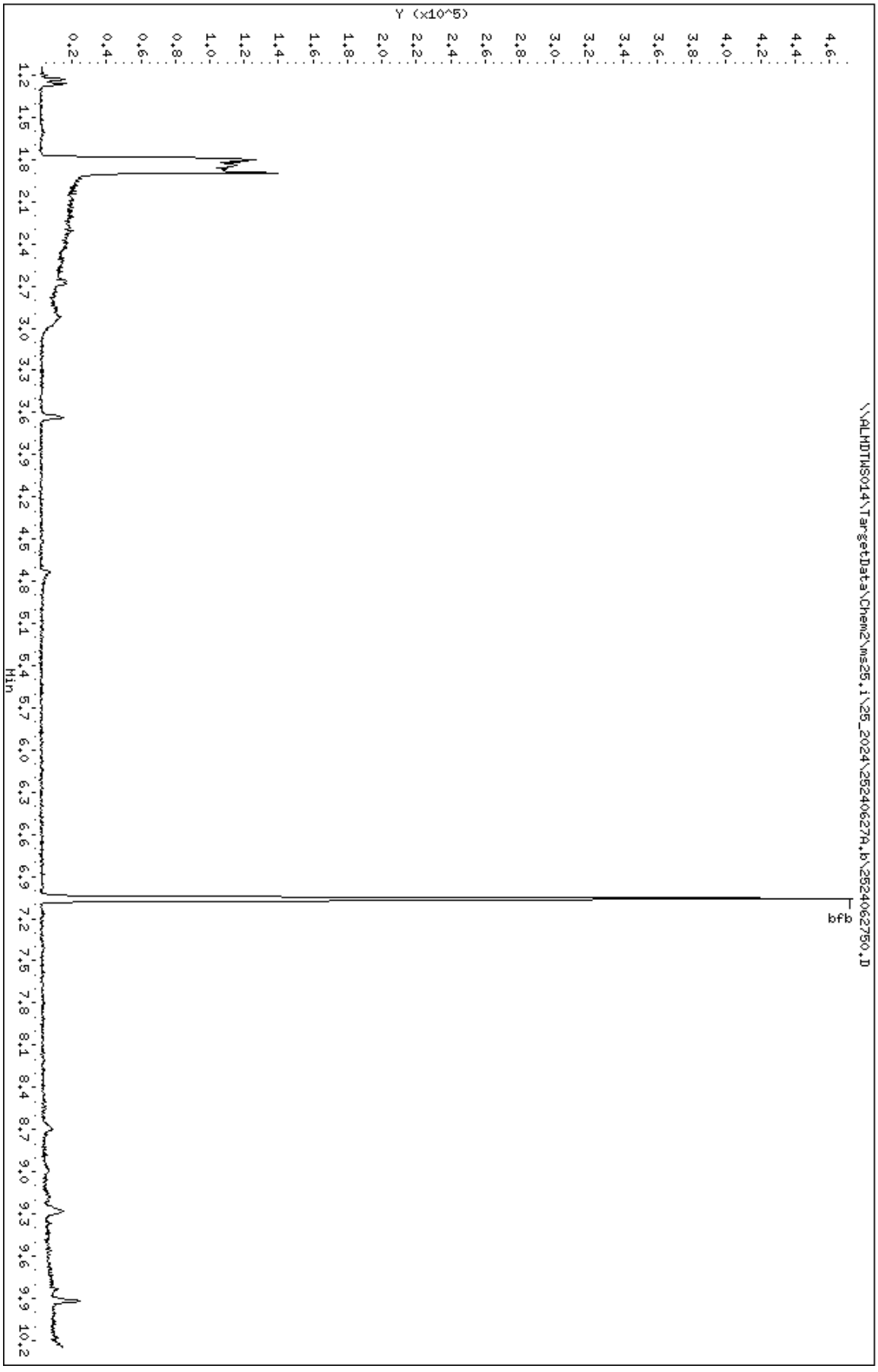
| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vf | 1.000 | Volumetric correction factor |
| Vi | 1.000 | Injection Volume |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | REL RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 bfb | | | | | | CAS #: 460-00-4 | | |
| 7.057 | 8.129 | ( 0.000) | 95 | 84656 | | | 0.00- 100.00 | 100.00 |
| 7.057 | 8.129 | ( 0.000) | 50 | 14893 | | | 15.00- 40.00 | 17.59 |
| 7.057 | 8.129 | ( 0.000) | 75 | 39856 | | | 30.00- 60.00 | 47.08 |
| 7.057 | 8.129 | ( 0.000) | 96 | 5539 | | | 5.00- 9.00 | 6.54 |
| 7.057 | 8.129 | ( 0.000) | 173 | 358 | | | 0.00- 2.00 | 0.48 |
| 7.057 | 8.129 | ( 0.000) | 174 | 73832 | | | 50.00- 0.00 | 87.21 |
| 7.057 | 8.129 | ( 0.000) | 175 | 6023 | | | 5.00- 9.00 | 8.16 |
| 7.057 | 8.129 | ( 0.000) | 176 | 71456 | | | 95.00- 101.00 | 96.78 |
| 7.057 | 8.129 | ( 0.000) | 177 | 4419 | | | 5.00- 9.00 | 6.18 |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 17.59 |
| 75 | 30.00 - 60.00% of mass 95 | 47.08 |
| 96 | 5.00 - 9.00% of mass 95 | 6.54 |
| 173 | Less than 2.00% of mass 174 | 0.42 ( 0.48) |
| 174 | Greater than 50.00% of mass 95 | 87.21 |
| 175 | 5.00 - 9.00% of mass 174 | 7.11 ( 8.16) |
| 176 | 95.00 - 101.00% of mass 174 | 84.41 ( 96.78) |
| 177 | 5.00 - 9.00% of mass 176 | 5.22 ( 6.18) |

Data File: 2524062750.D
Spectrum: Avg. Scans 1084-1086 ( 7.06), Background Scan 1077
Location of Maximum: 95.00
Number of points: 83

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 547 | 63.00 | 3107 | 88.00 | 3052 | 130.00 | 223 |
| 37.00 | 3684 | 64.00 | 119 | 91.00 | 331 | 135.00 | 237 |
| 38.00 | 3112 | 65.00 | 58 | 92.00 | 2388 | 137.00 | 232 |
| 39.00 | 1422 | 67.00 | 222 | 93.00 | 3371 | 141.00 | 840 |
| 41.00 | 257 | 68.00 | 8426 | 94.00 | 9223 | 142.00 | 127 |
| 43.00 | 175 | 69.00 | 8579 | 95.00 | 84656 | 143.00 | 911 |
| 44.00 | 272 | 70.00 | 593 | 96.00 | 5539 | 146.00 | 201 |
| 45.00 | 686 | 71.00 | 60 | 97.00 | 333 | 148.00 | 109 |
| 47.00 | 964 | 72.00 | 619 | 104.00 | 495 | 152.00 | 63 |
| 48.00 | 309 | 73.00 | 3454 | 105.00 | 147 | 154.00 | 50 |
| 49.00 | 3469 | 74.00 | 13701 | 106.00 | 440 | 155.00 | 137 |
| 50.00 | 14893 | 75.00 | 39856 | 107.00 | 69 | 170.00 | 58 |
| 51.00 | 4788 | 76.00 | 3261 | 111.00 | 132 | 171.00 | 105 |
| 52.00 | 182 | 77.00 | 671 | 115.00 | 180 | 172.00 | 90 |
| 55.00 | 295 | 78.00 | 463 | 116.00 | 153 | 173.00 | 358 |
| 56.00 | 1331 | 79.00 | 2840 | 117.00 | 416 | 174.00 | 73832 |
| 57.00 | 2378 | 80.00 | 752 | 118.00 | 485 | 175.00 | 6023 |
| 58.00 | 61 | 81.00 | 3008 | 119.00 | 462 | 176.00 | 71456 |
| 60.00 | 821 | 82.00 | 711 | 127.00 | 53 | 177.00 | 4419 |
| 61.00 | 3701 | 86.00 | 73 | 128.00 | 250 | 178.00 | 50 |
| 62.00 | 3396 | 87.00 | 3552 | 129.00 | 214 | | |


Data File: \\ALHDTWS014\TargetData\Chem2\ms25,i\25_2024\252406270,b\252406275O.D
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Client ID:
Sample Info: 1000
Volume Injected (uL): 1.0
Column phase: DB624
Instrument: ms25,i
Operator: BST
Column diameter: 0.53
Page 1
Y (x10^5)
Min
bfb
\\ALHDTWS014\TargetData\Chem2\ms25,i\25_2024\252406270,b\252406275O.D

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062750.D
Inj Date  : 27-JUN-2024 18:40
InstruID  : ms25.i
LabSampID : 1000

NO MANUAL INTEGRATIONS

Data File: 2524062751.D Page 1
Report Date: 28-Jun-2024 15:11

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062751.D
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Inj Date : 27-JUN-2024 19:08
Operator : BST Inst ID: ms25.i
Smp Info : 1800;;1;2;4;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: NAMDTW7018

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.497 | 1.497 | (0.359) | 588569 | 50.0000 | 44.9699 | |
| 2 Chloromethane | 50 | 1.644 | 1.644 | (0.394) | 581144 | 50.0000 | 50.8463 | |
| 3 Vinyl Chloride | 62 | 1.704 | 1.704 | (0.409) | 704104 | 50.0000 | 47.5886 | |
| 4 Bromomethane | 94 | 1.923 | 1.923 | (0.461) | 382386 | 50.0000 | 54.0296 | |
| 5 Chloroethane | 64 | 2.004 | 2.004 | (0.481) | 501176 | 50.0000 | 50.1482 | |
| 6 Pentane | 41 | 2.092 | 2.092 | (0.502) | 378864 | 50.0000 | 40.8970 | |
| 7 Trichlorofluoromethane | 101 | 2.097 | 2.097 | (0.503) | 915619 | 50.0000 | 45.1796 | |
| 8 Dichlorofluoromethane | 67 | 2.124 | 2.124 | (0.509) | 996250 | 50.0000 | 53.1271 | |
| 9 Ethyl Ether | 74 | 2.277 | 2.277 | (0.546) | 307704 | 50.0000 | 53.9600 | |
| 10 1,1-Dichloroethene | 61 | 2.414 | 2.414 | (0.579) | 573103 | 50.0000 | 50.3648 | |
| 12 Carbon Disulfide | 76 | 2.446 | 2.446 | (0.587) | 1282798 | 50.0000 | 52.2594 | |
| 11 Freon 113 | 101 | 2.424 | 2.424 | (0.581) | 369140 | 50.0000 | 46.1221 | |
| 13 Iodomethane | 127 | 2.506 | 2.506 | (0.601) | 230606 | 50.0000 | 52.2517 | |
| 14 Acrolein | 56 | 2.599 | 2.599 | (0.623) | 484639 | 250.000 | 264.046 | |
| 16 3-Chloro-1-propene | 41 | 2.681 | 2.681 | (0.643) | 501820 | 50.0000 | 50.6078 | |
| 15 Isopropyl Alcohol | 45 | 2.654 | 2.654 | (0.636) | 142316 | 250.000 | 237.048 | |
| 17 Methylene Chloride | 84 | 2.741 | 2.741 | (0.657) | 493568 | 50.0000 | 53.1010 | |
| 18 Acetone | 58 | 2.752 | 2.752 | (0.660) | 249065 | 250.000 | 241.857 | |
| 19 Methyl acetate | 74 | 2.812 | 2.812 | (0.674) | 105189 | 50.0000 | 49.7239 | |
| 20 trans-1,2-Dichloroethene | 61 | 2.828 | 2.828 | (0.678) | 600454 | 50.0000 | 53.8763 | |
| 21 Hexane | 57 | 2.866 | 2.866 | (0.687) | 832329 | 50.0000 | 44.8665 | |

Data File: 2524062751.D
Report Date: 28-Jun-2024 15:11



| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 22 Methyl t-Butyl Ether | 73 | 2.872 | 2.872 | (0.689) | 1430746 | 50.0000 | 50.0392 | |
| 23 tert.- Butyl Alcohol | 59 | 2.894 | 2.894 | (0.694) | 263773 | 250.000 | 256.578 | |
| 24 Acetonitrile | 41 | 3.019 | 3.019 | (0.724) | 295243 | 250.000 | 256.386 | |
| 25 Diisopropyl ether | 45 | 3.063 | 3.063 | (0.734) | 1370185 | 50.0000 | 55.3949 | |
| 26 Chloroprene | 53 | 3.156 | 3.156 | (0.757) | 672544 | 50.0000 | 53.6309 | |
| 27 1,1-Dichloroethane | 63 | 3.167 | 3.167 | (0.759) | 840524 | 50.0000 | 55.3565 | |
| 28 Acrylonitrile | 53 | 3.188 | 3.188 | (0.765) | 1045484 | 250.000 | 264.384 | |
| 30 n-Propanol | 41 | 3.265 | 3.265 | (0.783) | 241949 | 500.000 | 496.512 | |
| 29 Ethyl tert-butyl ether | 59 | 3.265 | 3.265 | (0.783) | 1464185 | 50.0000 | 55.7348 | |
| 31 Vinyl acetate | 86 | 3.276 | 3.276 | (0.785) | 126277 | 50.0000 | 48.7326 | |
| 32 cis-1,2-Dichloroethene | 61 | 3.461 | 3.461 | (0.830) | 606484 | 50.0000 | 53.6688 | |
| 33 2,2-Dichloropropane | 77 | 3.527 | 3.527 | (0.846) | 682559 | 50.0000 | 56.4022 | |
| M 100 1,2-Dichloroethene, Total | 61 | | | | 1206938 | 100.000 | 107.545 | |
| 34 Bromochloromethane | 128 | 3.576 | 3.576 | (0.857) | 266890 | 50.0000 | 54.7664 | |
| 35 Cyclohexane | 84 | 3.587 | 3.587 | (0.860) | 606745 | 50.0000 | 44.7476 | |
| 36 Chloroform | 83 | 3.603 | 3.603 | (0.864) | 878396 | 50.0000 | 53.5887 | |
| 37 Ethyl acetate | 43 | 3.636 | 3.636 | (0.872) | 473894 | 50.0000 | 48.2137 | |
| 38 Methyl acrylate | 55 | 3.652 | 3.652 | (0.876) | 475301 | 50.0000 | 52.2324 | |
| 39 Carbon Tetrachloride | 117 | 3.701 | 3.701 | (0.887) | 539288 | 50.0000 | 44.7750(M) | MP |
| 40 Tetrahydrofuran | 42 | 3.696 | 3.696 | (0.886) | 699107 | 250.000 | 251.306 | |
| $ 41 Dibromofluoromethane | 113 | 3.707 | 3.707 | (0.889) | 260546 | 30.0000 | 27.9165 | |
| 42 1,1,1-Trichloroethane | 97 | 3.734 | 3.734 | (0.895) | 676290 | 50.0000 | 53.0077 | |
| 43 2-Butanone | 72 | 3.761 | 3.761 | (0.902) | 347634 | 250.000 | 258.496(M) | MP |
| 44 1,1-Dichloropropene | 75 | 3.800 | 3.800 | (0.911) | 620944 | 50.0000 | 51.4526 | |
| 45 1-Chlorobutane | 41 | 3.821 | 3.821 | (0.916) | 373520 | 50.0000 | 48.1289 | |
| 46 Heptane | 71 | 3.887 | 3.887 | (0.932) | 314750 | 50.0000 | 44.8910 | |
| 48 Propionitrile | 54 | 3.941 | 3.941 | (0.945) | 394071 | 250.000 | 263.163 | |
| 47 Benzene | 78 | 3.941 | 3.941 | (0.945) | 1911810 | 50.0000 | 51.5402 | |
| 49 Methacrylonitrile | 67 | 3.952 | 3.952 | (0.948) | 233568 | 50.0000 | 52.0324 | |
| 50 tert-amyl methyl Ether | 73 | 3.974 | 3.974 | (0.953) | 1368515 | 50.0000 | 53.9657 | |
| $ 51 1,2-Dichloroethane-d4 | 65 | 4.012 | 4.012 | (0.962) | 280289 | 30.0000 | 28.4892(M) | MP |
| 54 Isobutyl alcohol | 42 | 3.990 | 3.990 | (0.957) | 114015 | 500.000 | 499.251(M) | MP |
| 52 1,2-Dichloroethane | 62 | 4.056 | 4.056 | (0.973) | 609034 | 50.0000 | 52.2297 | |
| 53 tert-Amyl Alcohol | 59 | 4.056 | 4.056 | (0.973) | 198002 | 250.000 | 251.032 | |
| * 55 Fluorobenzene | 96 | 4.171 | 4.171 | (1.000) | 1182847 | 30.0000 | | |
| 56 Diisobutylene | 57 | 4.176 | 4.176 | (1.001) | 930710 | 50.0000 | 40.3569 | |
| 57 Trichloroethene | 95 | 4.269 | 4.269 | (1.024) | 482145 | 50.0000 | 51.3580 | |
| 58 Methyl cyclohexane | 83 | 4.274 | 4.274 | (0.692) | 652020 | 50.0000 | 43.5964 | |
| 59 tert-Amyl Ethylether | 59 | 4.367 | 4.367 | (1.047) | 1119442 | 50.0000 | 50.6394 | |
| 60 Dibromomethane | 93 | 4.525 | 4.525 | (1.085) | 318195 | 50.0000 | 53.6153 | |
| 61 1,2-Dichloropropane | 63 | 4.585 | 4.585 | (1.099) | 480355 | 50.0000 | 53.8057 | |
| 62 Bromodichloromethane | 83 | 4.607 | 4.607 | (1.105) | 592350 | 50.0000 | 47.7204 | |
| 63 Methyl methacrylate | 41 | 4.667 | 4.667 | (1.119) | 381183 | 50.0000 | 53.9496 | |
| 65 2-Chloroethylvinyl ether | 63 | 4.934 | 4.934 | (1.183) | 316167 | 50.0000 | 48.4025 | |
| 66 cis-1,3-Dichloropropene | 75 | 4.994 | 4.994 | (0.809) | 790316 | 50.0000 | 50.6623 | |
| 67 Octane | 85 | 5.000 | 5.000 | (0.810) | 298231 | 50.0000 | 52.5914 | |
| $ 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 1011539 | 30.0000 | 27.7099 | |
| 69 Toluene | 92 | 5.153 | 5.153 | (0.835) | 1145504 | 50.0000 | 49.5088 | |
| 70 Chloroacetonitrile | 75 | 5.213 | 5.213 | (0.844) | 148835 | 250.000 | 258.041 | |
| 71 2-Nitropropane | 41 | 5.300 | 5.300 | (0.859) | 590049 | 250.000 | 232.687 | |
| 72 1,1-Dichloro-2-propanone | 63 | 5.316 | 5.316 | (0.861) | 55916 | 250.000 | 228.128 | |
| 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.371 | 5.371 | (0.870) | 2342413 | 250.000 | 256.338 | |
| 75 trans-1,3-Dichloropropene | 75 | 5.409 | 5.409 | (0.876) | 707367 | 50.0000 | 48.9776 | |
| 74 Tetrachloroethene | 164 | 5.409 | 5.409 | (0.876) | 407949 | 50.0000 | 48.4205 | |

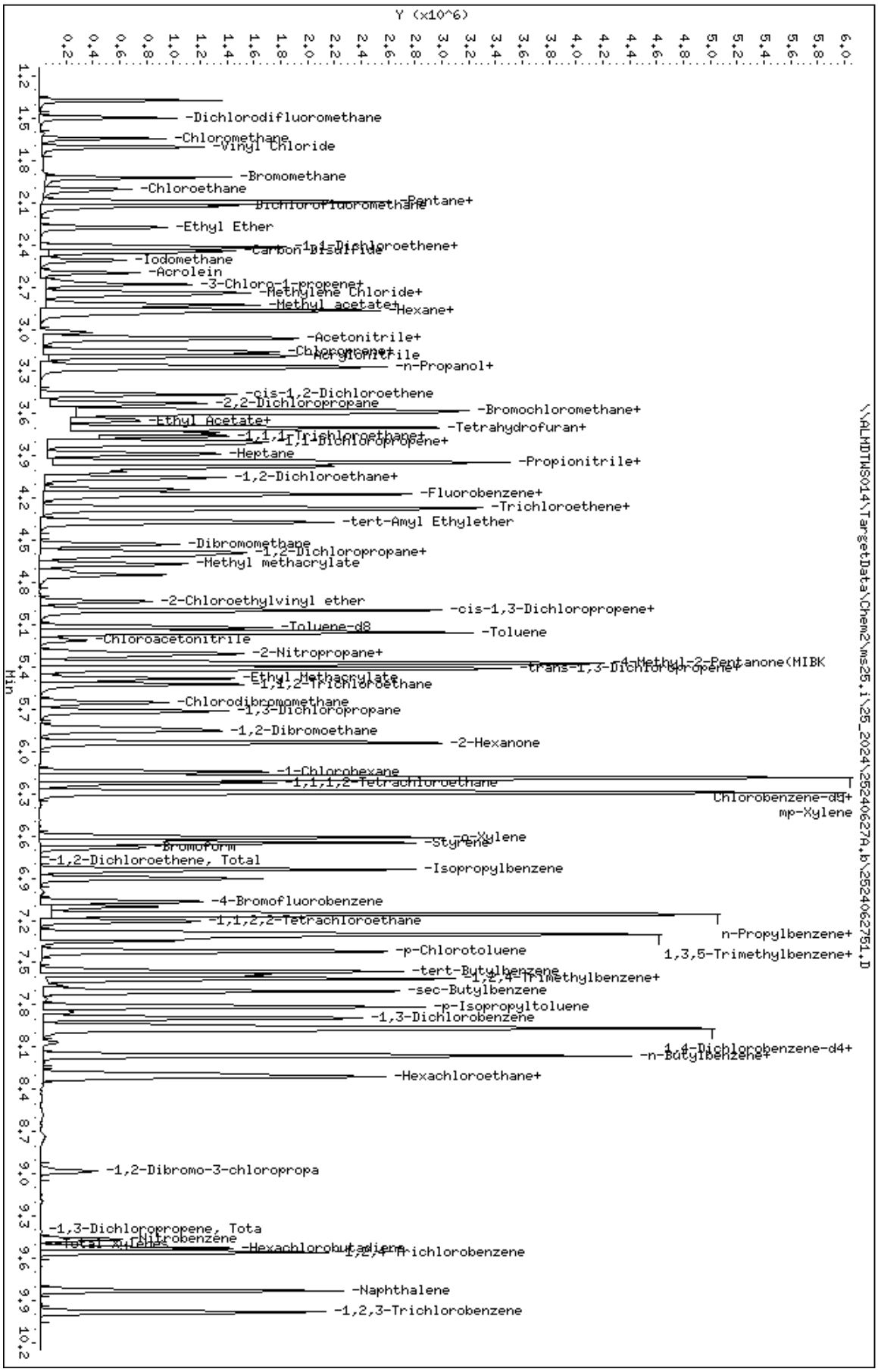
Data File: 2524062751.D
Report Date: 28-Jun-2024 15:11



| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 76 Ethyl methacrylate | 69 | 5.480 | 5.480 | (0.888) | 697481 | 50.0000 | 50.0133 | |
| 77 1,1,2-Trichloroethane | 83 | 5.524 | 5.524 | (0.895) | 376928 | 50.0000 | 53.0224 | |
| 78 Chlorodibromomethane | 129 | 5.649 | 5.649 | (0.915) | 477567 | 50.0000 | 47.4101 | |
| 79 1,3-Dichloropropane | 76 | 5.715 | 5.715 | (0.926) | 757440 | 50.0000 | 53.9276 | |
| 80 1,2-Dibromoethane | 107 | 5.829 | 5.829 | (0.944) | 463543 | 50.0000 | 48.9931 | |
| 81 2-Hexanone | 43 | 5.933 | 5.933 | (0.961) | 1590243 | 250.000 | 253.672 | |
| 82 1-Chlorohexane | 91 | 6.146 | 6.146 | (0.996) | 581809 | 50.0000 | 47.7986 | |
| * 83 Chlorobenzene-d5 | 82 | 6.173 | 6.173 | (1.000) | 461076 | 30.0000 | | |
| 85 Ethylbenzene | 106 | 6.189 | 6.189 | (1.003) | 659872 | 50.0000 | 47.8595 | |
| 84 Chlorobenzene | 112 | 6.189 | 6.189 | (1.003) | 1243855 | 50.0000 | 52.7536 | |
| 86 1,1,1,2-Tetrachloroethane | 131 | 6.222 | 6.222 | (1.008) | 429719 | 50.0000 | 48.2798 | |
| 87 mp-Xylene | 106 | 6.293 | 6.293 | (1.019) | 1576528 | 100.000 | 96.2834 | |
| M 120 1,3-Dichloropropene, Total | 75 | | | | 1497683 | 100.000 | 99.6399 | |
| 88 o-Xylene | 106 | 6.610 | 6.610 | (1.071) | 758113 | 50.0000 | 48.3154 | |
| 89 Styrene | 104 | 6.648 | 6.648 | (0.836) | 1222722 | 50.0000 | 51.5078 | |
| 90 Bromoform | 173 | 6.681 | 6.681 | (0.840) | 316614 | 50.0000 | 47.2468 | |
| 91 Isopropylbenzene | 105 | 6.839 | 6.839 | (0.860) | 1669910 | 50.0000 | 50.4718 | |
| $ 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 318666 | 30.0000 | 28.7048 | |
| M 121 TOTAL XYLENES | 106 | | | | 2334641 | 150.000 | 144.599 | |
| 94 n-Propylbenzene | 120 | 7.155 | 7.155 | (0.900) | 518810 | 50.0000 | 53.4757 | |
| 93 Bromobenzene | 156 | 7.155 | 7.155 | (0.900) | 527661 | 50.0000 | 55.6155 | |
| 95 1,1,2,2-Tetrachloroethane | 83 | 7.204 | 7.204 | (0.906) | 535948 | 50.0000 | 56.8343 | |
| 97 1,3,5-Trimethylbenzene | 105 | 7.303 | 7.303 | (0.918) | 1458558 | 50.0000 | 54.0187 | |
| 96 o-Chlorotoluene | 91 | 7.292 | 7.292 | (0.917) | 1417977 | 50.0000 | 55.5518 | |
| 98 1,2,3-Trichloropropane | 110 | 7.324 | 7.324 | (0.921) | 166786 | 50.0000 | 54.8377 | |
| 99 trans-1,4-Dichloro-2-butene | 53 | 7.346 | 7.346 | (0.924) | 147920 | 50.0000 | 51.1111 | |
| 101 p-Chlorotoluene | 91 | 7.417 | 7.417 | (0.933) | 1307636 | 50.0000 | 56.5574 | |
| 102 tert-Butylbenzene | 134 | 7.564 | 7.564 | (0.951) | 347354 | 50.0000 | 53.7886 | |
| 103 Pentachloroethane | 117 | 7.586 | 7.586 | (0.954) | 330634 | 50.0000 | 50.9805(M) | MP |
| 104 1,2,4-Trimethylbenzene | 105 | 7.614 | 7.614 | (0.957) | 1475466 | 50.0000 | 51.6105 | |
| 105 sec-Butylbenzene | 105 | 7.701 | 7.701 | (0.968) | 1776358 | 50.0000 | 53.2302 | |
| 106 p-Isopropyltoluene | 134 | 7.815 | 7.815 | (0.983) | 407936 | 50.0000 | 53.3806 | |
| 107 1,3-Dichlorobenzene | 146 | 7.892 | 7.892 | (0.992) | 895935 | 50.0000 | 56.0518 | |
| * 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 401286 | 30.0000 | | |
| 109 1,4-Dichlorobenzene | 146 | 7.963 | 7.963 | (1.001) | 914825 | 50.0000 | 54.9083 | |
| 111 n-Butylbenzene | 134 | 8.159 | 8.159 | (1.026) | 373809 | 50.0000 | 52.3428 | |
| 110 Benzyl Chloride | 126 | 8.159 | 8.159 | (1.026) | 212106 | 50.0000 | 53.0847 | |
| 112 Hexachloroethane | 117 | 8.290 | 8.290 | (1.043) | 261521 | 50.0000 | 45.7025 | |
| 113 1,2-Dichlorobenzene | 146 | 8.312 | 8.312 | (1.045) | 859950 | 50.0000 | 56.4799 | |
| 114 1,2-Dibromo-3-chloropropane | 75 | 8.983 | 8.983 | (1.130) | 84879 | 50.0000 | 47.0896 | |
| 115 Nitrobenzene | 77 | 9.463 | 9.463 | (1.190) | 269001 | 500.000 | 459.305 | |
| 116 Hexachlorobutadiene | 225 | 9.529 | 9.529 | (1.198) | 254055 | 50.0000 | 50.4334 | |
| 117 1,2,4-Trichlorobenzene | 180 | 9.556 | 9.556 | (1.202) | 580898 | 50.0000 | 57.6115 | |
| 118 Naphthalene | 128 | 9.829 | 9.829 | (1.236) | 1490052 | 50.0000 | 50.2736 | |
| 119 1,2,3-Trichlorobenzene | 180 | 9.982 | 9.982 | (1.255) | 565968 | 50.0000 | 49.9572 | |

QC Flag Legend

M - Compound response manually integrated.

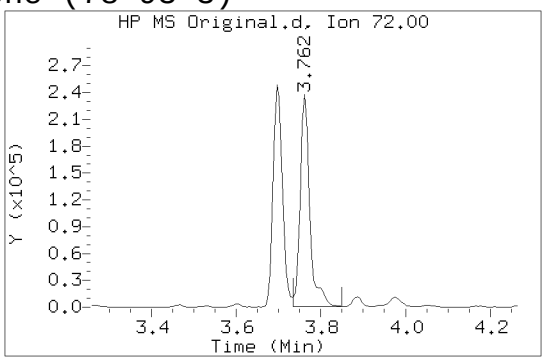

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Client ID:
Sample Info: 1800;1;2;4;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: BST
Column diameter: 0.25
Page 1
Y (x10^6)
Min
\\ALHDTWS014\TargetData\Chem2\ms25,i\25_2024\252406270,b\252406275t.D
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-Carbon Disulfide
-Iodomethane
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Acrylonitrile
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Tetrahydrofuran+
-1,1,1-Trichloroethane+
-1,1-Dichloropropene+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene
-Chloroacetonitrile
-2-Nitropropane+
-trans-1,3-Dichloropropene+
-4-Methyl-2-Pentanone(MIBK
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-o-Xylene
-Bromoform
-Styrene
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane
n-Propylbenzene+
-p-Chlorotoluene
1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Nitrobenzene
-Total Xylenes
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene

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Inj Date : 27-JUN-2024 19:08
InstruID : ms25.i
LabSampID : 1800

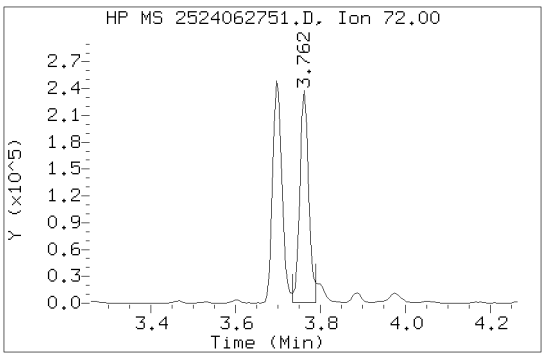
## 2-Butanone (78-93-3)

Reason Code: MP

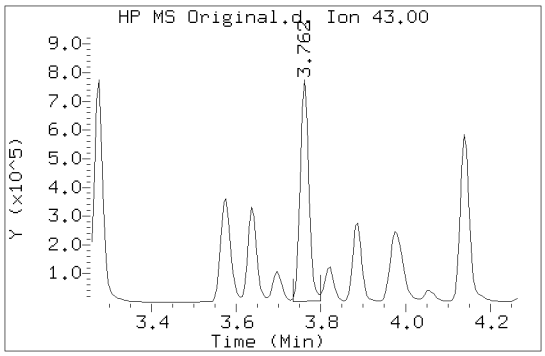
BEFORE
MASS
72
AREA
374415
HEIGHT
237528
27-Jun-2024
19:21



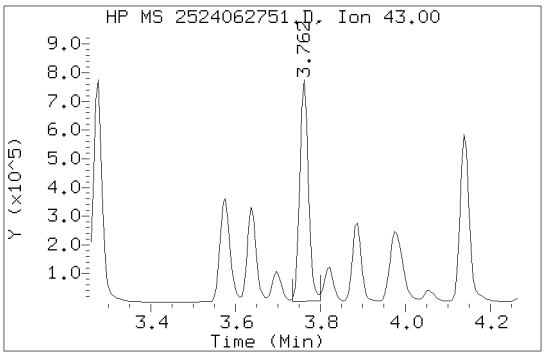

AFTER
MASS
72
AREA
347634
HEIGHT
237529
28-Jun-2024
15:11




BEFORE
MASS
43
AREA
1106678
HEIGHT
770651
27-Jun-2024
19:21



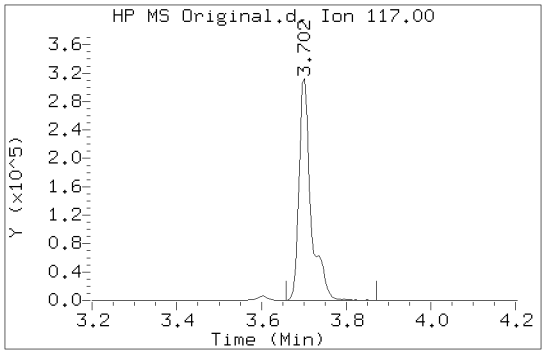

AFTER
MASS
43
AREA
1106678
HEIGHT
770651
28-Jun-2024
15:11



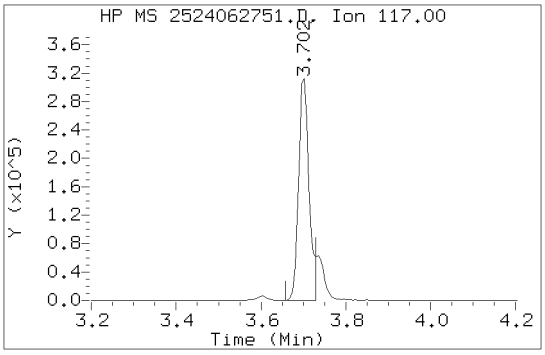

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

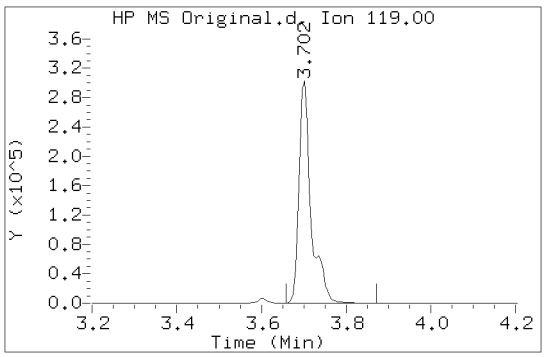
BEFORE
MASS
117
AREA
618164
HEIGHT
312256
27-Jun-2024
19:21



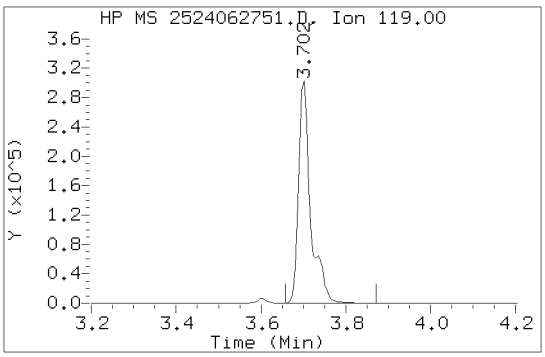

AFTER
MASS
117
AREA
539288
HEIGHT
312256
28-Jun-2024
15:11




BEFORE
MASS
119
AREA
601600
HEIGHT
302720
27-Jun-2024
19:21




AFTER
MASS
119
AREA
601600
HEIGHT
302720
28-Jun-2024
15:11

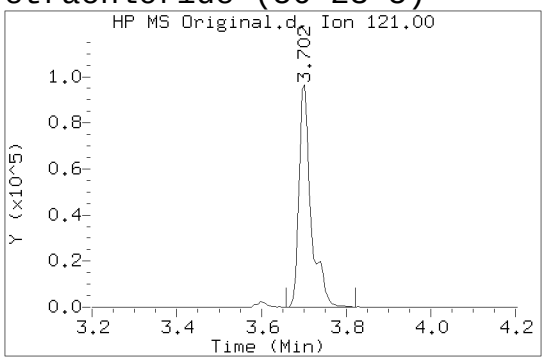


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InstruID : ms25.i
LabSampID : 1800

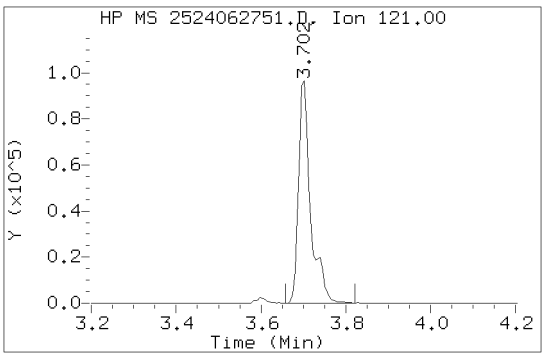
## Carbon Tetrachloride (56-23-5)

Reason Code: MP

**BEFORE**
MASS
121
AREA
191581
HEIGHT
96480
27-Jun-2024
19:21



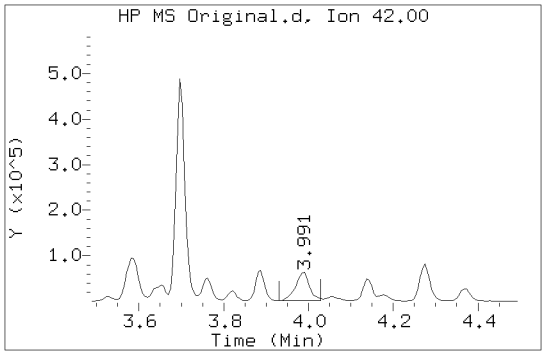

**AFTER**
MASS
121
AREA
191581
HEIGHT
96480
28-Jun-2024
15:11



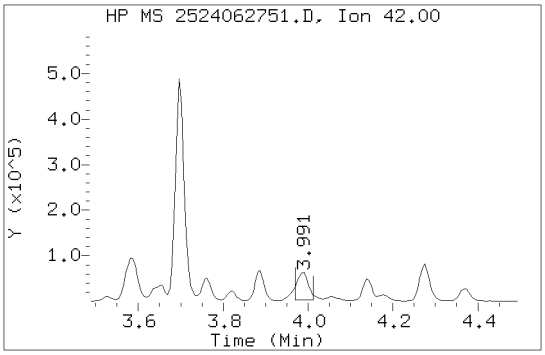

## Isobutyl alcohol (78-83-1)

Reason Code: MP

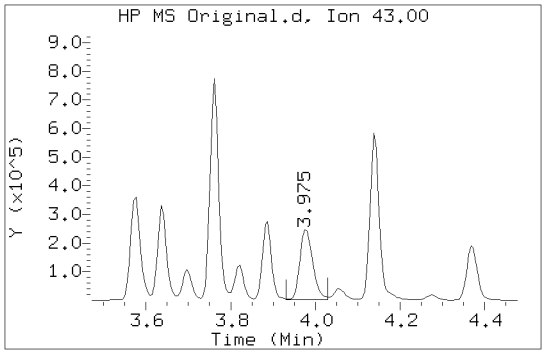
**BEFORE**
MASS
127
AREA
230284
HEIGHT
149248
27-Jun-2024
19:21



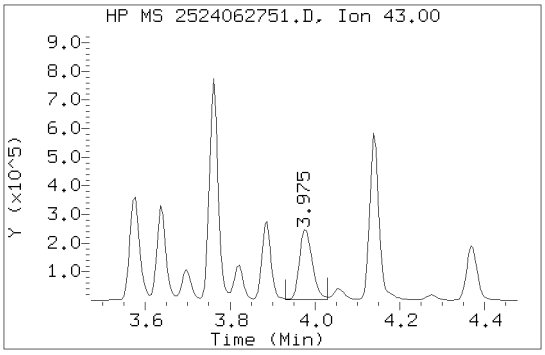

**AFTER**
MASS
42
AREA
114015
HEIGHT
60638
28-Jun-2024
15:11




**BEFORE**
MASS
142
AREA
564809
HEIGHT
376704
27-Jun-2024
19:21



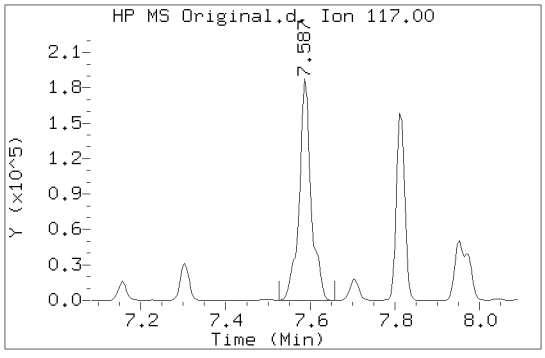

**AFTER**
MASS
43
AREA
526312
HEIGHT
245195
28-Jun-2024
15:11



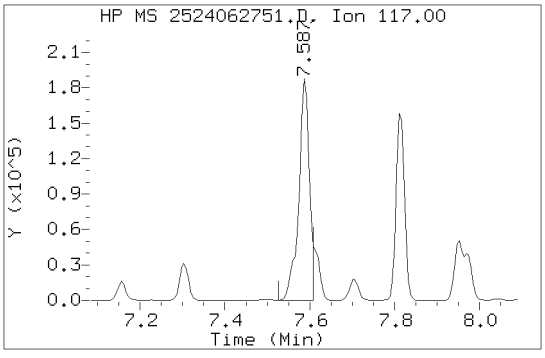

## Pentachloroethane (76-01-7)

Reason Code: MP

**BEFORE**
MASS
85
AREA
298231
HEIGHT
207424
27-Jun-2024
19:21




**AFTER**
MASS
117
AREA
330634
HEIGHT
187712
28-Jun-2024
15:11

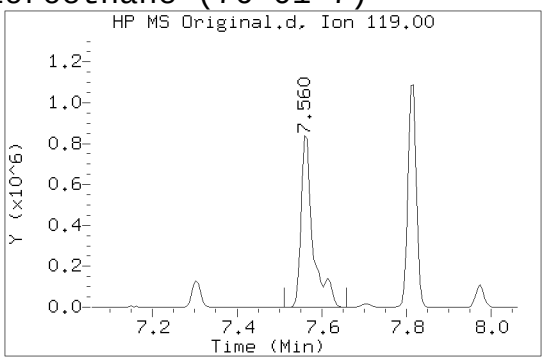


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Inj Date : 27-JUN-2024 19:08
InstruID : ms25.i
LabSampID : 1800

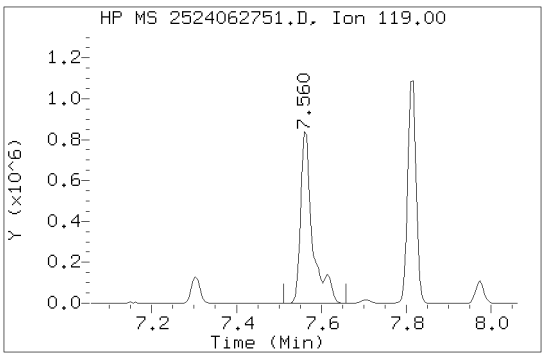
## Pentachloroethane (76-01-7)

Reason Code: MP

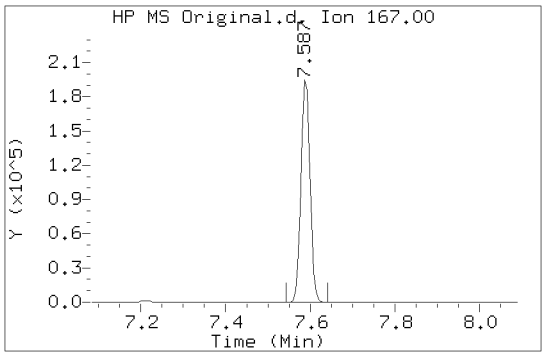
BEFORE
MASS
57
AREA
225042
HEIGHT
153897
27-Jun-2024
19:21



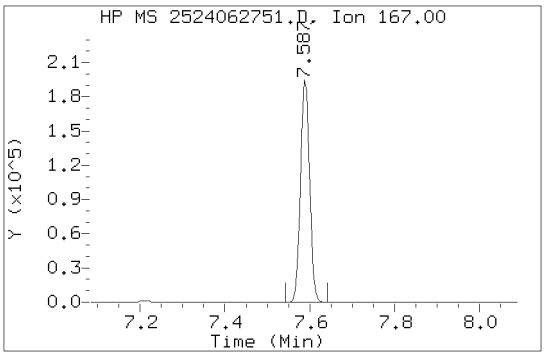

AFTER
MASS
119
AREA
1643192
HEIGHT
838146
28-Jun-2024
15:11




BEFORE
MASS
43
AREA
485837
HEIGHT
330933
27-Jun-2024
19:21



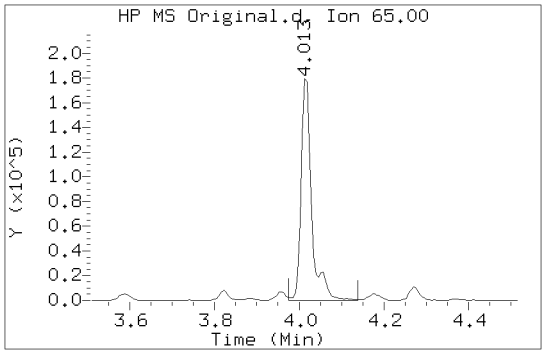

AFTER
MASS
167
AREA
291502
HEIGHT
194752
28-Jun-2024
15:11



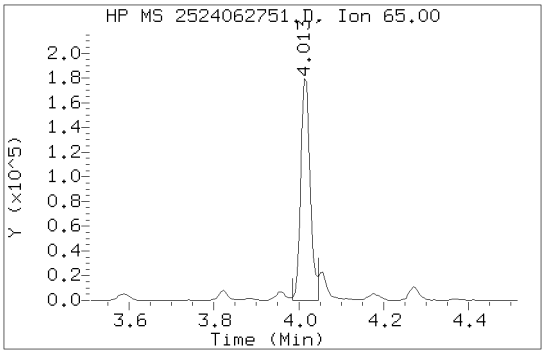

## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

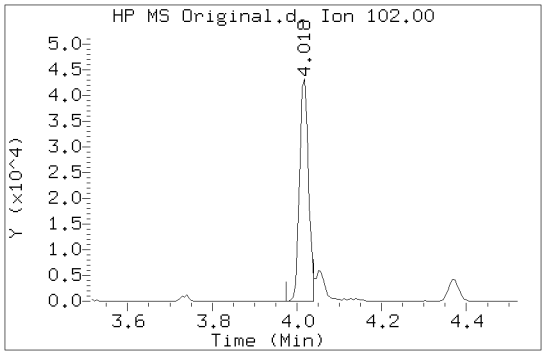
BEFORE
MASS
113
AREA
260546
HEIGHT
163712
27-Jun-2024
19:21



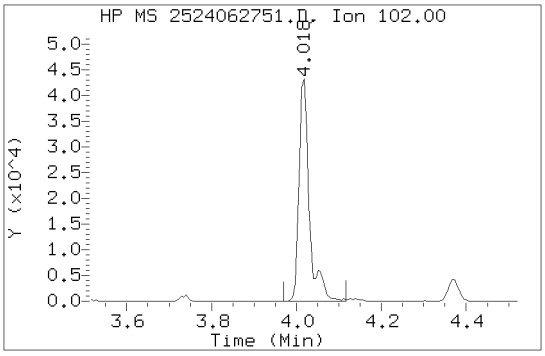

AFTER
MASS
65
AREA
280289
HEIGHT
179456
28-Jun-2024
15:11




BEFORE
MASS
111
AREA
264563
HEIGHT
168448
27-Jun-2024
19:21




AFTER
MASS
102
AREA
73629
HEIGHT
43256
28-Jun-2024
15:11



# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:11
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 27-JUN-2024 19:08
Operator: BST

There were no Unassigned peaks in this sample!

Data File: 2524062752.D Page 1
Report Date: 28-Jun-2024 15:11

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062752.D
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Inj Date : 27-JUN-2024 19:49
Operator : BST Inst ID: ms25.i
Smp Info : 3845609;;1;3;;LCS;1;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.497 | 1.497 | (0.359) | 210599 | 16.1968 | 16.1968 | |
| 2 Chloromethane | 50 | 1.644 | 1.644 | (0.394) | 196791 | 17.2544 | 17.2544 | |
| 3 Vinyl Chloride | 62 | 1.704 | 1.704 | (0.409) | 245892 | 16.7285 | 16.7285 | |
| 4 Bromomethane | 94 | 1.922 | 1.923 | (0.461) | 116316 | 16.2380 | 16.2380 | |
| 5 Chloroethane | 64 | 1.999 | 2.004 | (0.479) | 180595 | 17.9932 | 17.9932 | |
| 6 Pentane | 41 | 2.086 | 2.092 | (0.500) | 153643 | 16.0680 | 16.0680 | |
| 7 Trichlorofluoromethane | 101 | 2.097 | 2.097 | (0.503) | 341961 | 16.9845 | 16.9845 | |
| 8 Dichlorofluoromethane | 67 | 2.124 | 2.124 | (0.509) | 361688 | 19.4146 | 19.4146 | |
| 9 Ethyl Ether | 74 | 2.277 | 2.277 | (0.546) | 112307 | 19.8241 | 19.8241 | |
| 10 1,1-Dichloroethene | 61 | 2.413 | 2.414 | (0.579) | 219421 | 19.4098 | 19.4098 | |
| 12 Carbon Disulfide | 76 | 2.446 | 2.446 | (0.587) | 462977 | 18.9851 | 18.9851 | |
| 11 Freon 113 | 101 | 2.424 | 2.424 | (0.581) | 153545 | 19.3109 | 19.3109 | |
| 13 Iodomethane | 127 | 2.506 | 2.506 | (0.601) | 71861 | 16.7407 | 16.7407 | |
| 14 Acrolein | 56 | 2.599 | 2.599 | (0.623) | 287946 | 157.914 | 157.914 | |
| 16 3-Chloro-1-propene | 41 | 2.681 | 2.681 | (0.643) | 195950 | 19.9971 | 19.9971 | |
| 15 Isopropyl Alcohol | 45 | 2.654 | 2.654 | (0.636) | 56898 | 93.4967 | 93.4967 | |
| 17 Methylene Chloride | 84 | 2.741 | 2.741 | (0.657) | 182832 | 19.7996 | 19.7996 | |
| 18 Acetone | 58 | 2.757 | 2.752 | (0.661) | 114583 | 111.999 | 111.999 | |
| 19 Methyl acetate | 74 | 2.812 | 2.812 | (0.674) | 42355 | 19.9021 | 19.9021 | |
| 20 trans-1,2-Dichloroethene | 61 | 2.828 | 2.828 | (0.678) | 221501 | 20.0052 | 20.0052 | |
| 21 Hexane | 57 | 2.866 | 2.866 | (0.687) | 347075 | 18.6618 | 18.6618 | |
| 22 Methyl t-Butyl Ether | 73 | 2.872 | 2.872 | (0.689) | 547870 | 19.4294 | 19.4294 | |

Data File: 2524062752.D Page 2
Report Date: 28-Jun-2024 15:11

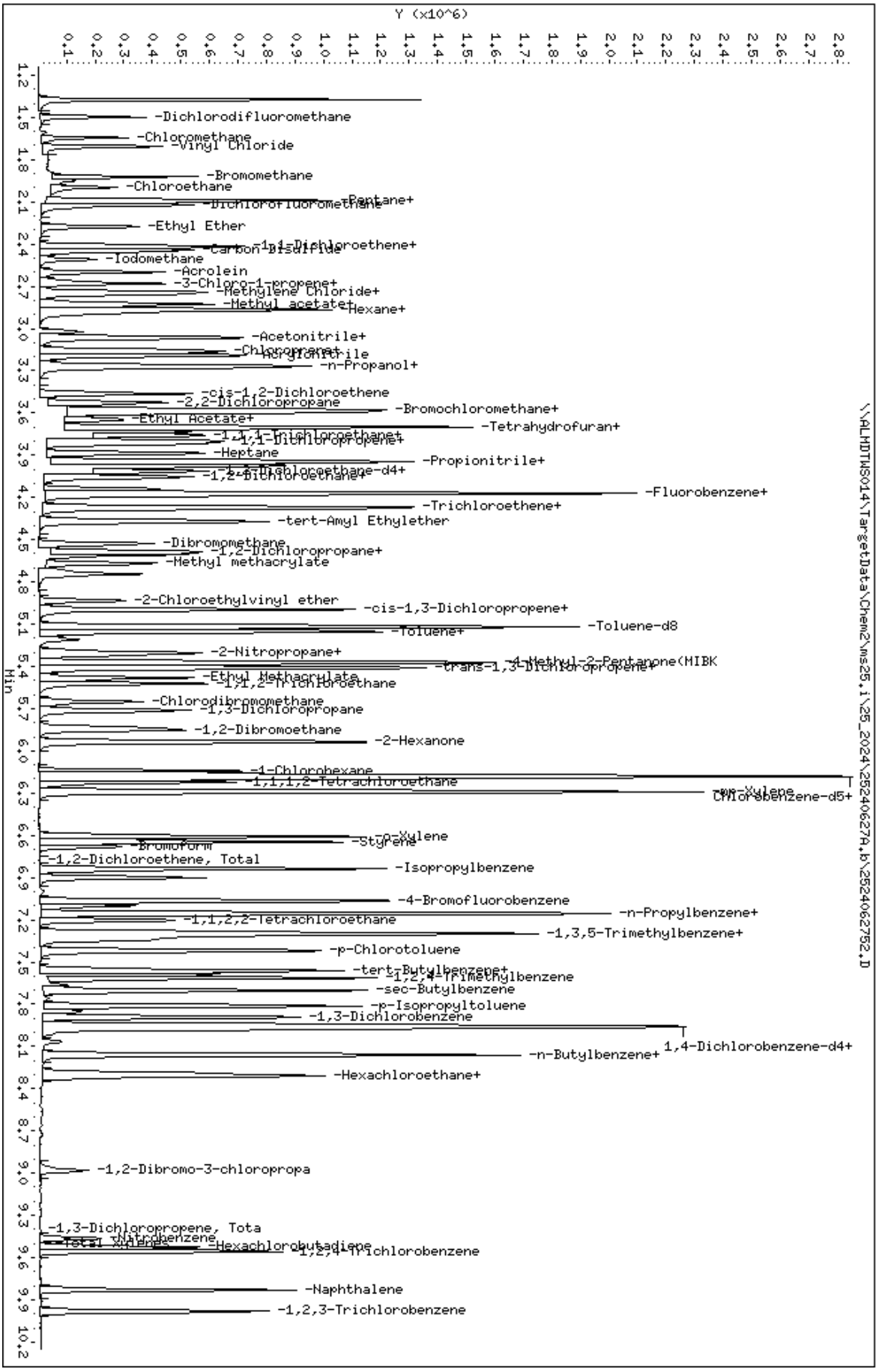
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 23 tert.- Butyl Alcohol | 59 | 2.899 | 2.894 | (0.695) | 95827 | 93.8265 | 93.8265 | |
| | 24 Acetonitrile | 41 | 3.019 | 3.019 | (0.724) | 118893 | 103.925 | 103.925 | |
| | 25 Diisopropyl ether | 45 | 3.063 | 3.063 | (0.734) | 512191 | 20.8435 | 20.8435 | |
| | 26 Chloroprene | 53 | 3.156 | 3.156 | (0.757) | 250419 | 20.1006 | 20.1006 | |
| | 27 1,1-Dichloroethane | 63 | 3.172 | 3.167 | (0.761) | 297644 | 19.7317 | 19.7317 | |
| | 28 Acrylonitrile | 53 | 3.188 | 3.188 | (0.765) | 405848 | 103.307 | 103.307 | |
| | 30 n-Propanol | 41 | 3.265 | 3.265 | (0.783) | 94595 | 195.399 | 195.399(a) | |
| | 29 Ethyl tert-butyl ether | 59 | 3.265 | 3.265 | (0.783) | 558896 | 21.4146 | 21.4146 | |
| | 31 Vinyl acetate | 86 | 3.276 | 3.276 | (0.785) | 44462 | 17.5185 | 17.5185 | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.461 | 3.461 | (0.830) | 229143 | 20.4106 | 20.4106 | |
| | 33 2,2-Dichloropropane | 77 | 3.527 | 3.527 | (0.846) | 252513 | 21.0033 | 21.0033 | |
| M | 100 1,2-Dichloroethene, Total | 61 | | | | 450644 | 40.4158 | 40.4158 | |
| | 34 Bromochloromethane | 128 | 3.576 | 3.576 | (0.857) | 101916 | 21.0510 | 21.0510 | |
| | 35 Cyclohexane | 84 | 3.587 | 3.587 | (0.860) | 257444 | 19.1115 | 19.1115 | |
| | 36 Chloroform | 83 | 3.603 | 3.603 | (0.864) | 327473 | 20.1097 | 20.1097 | |
| | 37 Ethyl acetate | 43 | 3.636 | 3.636 | (0.872) | 170210 | 17.3763 | 17.3763 | |
| | 38 Methyl acrylate | 55 | 3.652 | 3.652 | (0.876) | 187509 | 20.7415 | 20.7415 | |
| | 39 Carbon Tetrachloride | 117 | 3.701 | 3.701 | (0.887) | 205024 | 17.3911 | 17.3911(M) | MP |
| | 40 Tetrahydrofuran | 42 | 3.696 | 3.696 | (0.886) | 265077 | 95.9135 | 95.9135 | |
| $ | 41 Dibromofluoromethane | 113 | 3.707 | 3.707 | (0.889) | 276598 | 29.8314 | 29.8314 | |
| | 42 1,1,1-Trichloroethane | 97 | 3.734 | 3.734 | (0.895) | 256350 | 20.2249 | 20.2249 | |
| | 43 2-Butanone | 72 | 3.761 | 3.761 | (0.902) | 140144 | 104.895 | 104.895(M) | MP |
| | 44 1,1-Dichloropropene | 75 | 3.799 | 3.800 | (0.911) | 229127 | 19.1108 | 19.1108 | |
| | 45 1-Chlorobutane | 41 | 3.821 | 3.821 | (0.916) | 146381 | 18.9856 | 18.9856 | |
| | 46 Heptane | 71 | 3.887 | 3.887 | (0.932) | 130504 | 18.7355 | 18.7355 | |
| | 48 Propionitrile | 54 | 3.941 | 3.941 | (0.945) | 161169 | 108.338 | 108.338 | |
| | 47 Benzene | 78 | 3.941 | 3.941 | (0.945) | 707865 | 19.2088 | 19.2088 | |
| | 49 Methacrylonitrile | 67 | 3.952 | 3.952 | (0.948) | 94004 | 21.0792 | 21.0792 | |
| | 50 tert-amyl methyl Ether | 73 | 3.974 | 3.974 | (0.953) | 546539 | 21.6939 | 21.6939 | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.018 | 4.012 | (0.963) | 299523 | 30.6444 | 30.6444(M) | MP |
| | 54 Isobutyl alcohol | 42 | 3.990 | 3.990 | (0.957) | 39338 | 176.010 | 176.010(QM) | MP |
| | 52 1,2-Dichloroethane | 62 | 4.050 | 4.056 | (0.971) | 231523 | 19.9856 | 19.9856 | |
| | 53 tert-Amyl Alcohol | 59 | 4.056 | 4.056 | (0.973) | 79253 | 101.140 | 101.140 | |
| * | 55 Fluorobenzene | 96 | 4.170 | 4.171 | (1.000) | 1175116 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.176 | 4.176 | (1.001) | 417716 | 17.4047 | 17.4047 | |
| | 57 Trichloroethene | 95 | 4.269 | 4.269 | (1.024) | 177868 | 19.0711 | 19.0711 | |
| | 58 Methyl cyclohexane | 83 | 4.274 | 4.274 | (0.692) | 277560 | 19.1146 | 19.1146 | |
| | 59 tert-Amyl Ethylether | 59 | 4.367 | 4.367 | (1.047) | 402165 | 18.4793 | 18.4793 | |
| | 60 Dibromomethane | 93 | 4.525 | 4.525 | (1.085) | 121352 | 20.5821 | 20.5821 | |
| | 61 1,2-Dichloropropane | 63 | 4.585 | 4.585 | (1.099) | 179033 | 20.1858 | 20.1858 | |
| | 62 Bromodichloromethane | 83 | 4.607 | 4.607 | (1.105) | 230394 | 18.8836 | 18.8836 | |
| | 63 Methyl methacrylate | 41 | 4.667 | 4.667 | (1.119) | 147090 | 20.9549 | 20.9549 | |
| | 65 2-Chloroethylvinyl ether | 63 | 4.934 | 4.934 | (1.183) | 114599 | 17.8948 | 17.8948 | |
| | 66 cis-1,3-Dichloropropene | 75 | 4.994 | 4.994 | (0.809) | 282492 | 18.8292 | 18.8292 | |
| | 67 Octane | 85 | 5.000 | 5.000 | (0.810) | 112847 | 20.4961 | 20.4961 | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 1093913 | 30.8641 | 30.8641 | |
| | 69 Toluene | 92 | 5.153 | 5.153 | (0.835) | 430622 | 19.1691 | 19.1691 | |
| | 70 Chloroacetonitrile | 75 | 5.213 | 5.213 | (0.844) | 57274 | 102.273 | 102.273 | |
| | 71 2-Nitropropane | 41 | 5.300 | 5.300 | (0.859) | 215683 | 88.7687 | 88.7687 | |
| | 72 1,1-Dichloro-2-propanone | 63 | 5.316 | 5.316 | (0.861) | 22091 | 93.9771 | 93.9771(Q) | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.371 | 5.371 | (0.870) | 898489 | 101.881 | 101.881 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.409 | 5.409 | (0.876) | 270070 | 19.4397 | 19.4397 | |
| | 74 Tetrachloroethene | 164 | 5.409 | 5.409 | (0.876) | 160204 | 19.5847 | 19.5847 | |
| | 76 Ethyl methacrylate | 69 | 5.480 | 5.480 | (0.888) | 253728 | 18.9363 | 18.9363 | |

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| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 77 1,1,2-Trichloroethane | 83 | 5.524 | 5.524 | (0.895) | 146100 | 21.1676 | 21.1676 | |
| | 78 Chlorodibromomethane | 129 | 5.649 | 5.649 | (0.915) | 178885 | 18.5170 | 18.5170 | |
| | 79 1,3-Dichloropropane | 76 | 5.715 | 5.715 | (0.926) | 293438 | 21.5178 | 21.5178 | |
| | 80 1,2-Dibromoethane | 107 | 5.829 | 5.829 | (0.944) | 174597 | 19.1498 | 19.1498 | |
| | 81 2-Hexanone | 43 | 5.933 | 5.933 | (0.961) | 624608 | 103.282 | 103.282 | |
| | 82 1-Chlorohexane | 91 | 6.146 | 6.146 | (0.996) | 244624 | 20.6992 | 20.6992 | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.173 | (1.000) | 447665 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | 6.189 | 6.189 | (1.003) | 257990 | 19.1920 | 19.1920 | |
| | 84 Chlorobenzene | 112 | 6.184 | 6.189 | (1.002) | 467997 | 20.4430 | 20.4430 | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | 6.222 | 6.222 | (1.008) | 164223 | 19.1964 | 19.1964 | |
| | 87 mp-Xylene | 106 | 6.288 | 6.293 | (1.019) | 604847 | 37.5672 | 37.5672 | |
| M | 120 1,3-Dichloropropene, Total | 75 | | | | 552562 | 38.2688 | 38.2688 | |
| | 88 o-Xylene | 106 | 6.609 | 6.610 | (1.071) | 291218 | 19.1157 | 19.1157 | |
| | 89 Styrene | 104 | 6.648 | 6.648 | (0.836) | 461152 | 19.8807 | 19.8807 | |
| | 90 Bromoform | 173 | 6.680 | 6.681 | (0.840) | 116915 | 17.9174 | 17.9174 | |
| | 91 Isopropylbenzene | 105 | 6.839 | 6.839 | (0.860) | 728797 | 22.4137 | 22.4137 | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 335418 | 30.6384 | 30.6384 | |
| M | 121 TOTAL XYLENES | 106 | | | | 896065 | 56.6828 | 56.6828 | |
| | 94 n-Propylbenzene | 120 | 7.155 | 7.155 | (0.900) | 202507 | 21.1665 | 21.1665 | |
| | 93 Bromobenzene | 156 | 7.155 | 7.155 | (0.900) | 201849 | 21.5739 | 21.5739 | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | 7.204 | 7.204 | (0.906) | 209415 | 22.5194 | 22.5194 | |
| | 97 1,3,5-Trimethylbenzene | 105 | 7.302 | 7.303 | (0.918) | 565243 | 21.2284 | 21.2284 | |
| | 96 o-Chlorotoluene | 91 | 7.292 | 7.292 | (0.917) | 546947 | 21.7287 | 21.7287 | |
| | 98 1,2,3-Trichloropropane | 110 | 7.324 | 7.324 | (0.921) | 65691 | 21.9021 | 21.9021 | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | 7.346 | 7.346 | (0.924) | 57915 | 20.4677 | 20.4677 | |
| | 101 p-Chlorotoluene | 91 | 7.417 | 7.417 | (0.933) | 503708 | 22.0924 | 22.0924 | |
| | 102 tert-Butylbenzene | 134 | 7.559 | 7.564 | (0.951) | 138262 | 21.7111 | 21.7111 | |
| | 103 Pentachloroethane | 117 | 7.586 | 7.586 | (0.954) | 120221 | 18.9818 | 18.9818(QM) | MP |
| | 104 1,2,4-Trimethylbenzene | 105 | 7.613 | 7.614 | (0.957) | 567526 | 20.0376 | 20.0376 | |
| | 105 sec-Butylbenzene | 105 | 7.701 | 7.701 | (0.968) | 719760 | 21.8714 | 21.8714 | |
| | 106 p-Isopropyltoluene | 134 | 7.810 | 7.815 | (0.982) | 161914 | 21.4850 | 21.4850 | |
| | 107 1,3-Dichlorobenzene | 146 | 7.892 | 7.892 | (0.992) | 341037 | 21.6359 | 21.6359 | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 395725 | 30.0000 | | |
| | 109 1,4-Dichlorobenzene | 146 | 7.963 | 7.963 | (1.001) | 353139 | 21.4935 | 21.4935 | |
| | 111 n-Butylbenzene | 134 | 8.159 | 8.159 | (1.026) | 148594 | 21.0994 | 21.0994(Q) | |
| | 110 Benzyl Chloride | 126 | 8.159 | 8.159 | (1.026) | 74590 | 19.2324 | 19.2324(Q) | |
| | 112 Hexachloroethane | 117 | 8.290 | 8.290 | (1.043) | 96164 | 17.2854 | 17.2854 | |
| | 113 1,2-Dichlorobenzene | 146 | 8.312 | 8.312 | (1.045) | 329853 | 21.9686 | 21.9686 | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | 8.983 | 8.983 | (1.130) | 33216 | 18.9364 | 18.9364 | |
| | 115 Nitrobenzene | 77 | 9.463 | 9.463 | (1.190) | 92155 | 171.783 | 171.783 | |
| | 116 Hexachlorobutadiene | 225 | 9.523 | 9.529 | (1.198) | 99472 | 20.1757 | 20.1757 | |
| | 117 1,2,4-Trichlorobenzene | 180 | 9.556 | 9.556 | (1.202) | 237043 | 23.8395 | 23.8395 | |
| | 118 Naphthalene | 128 | 9.829 | 9.829 | (1.236) | 578236 | 19.9778 | 19.9778 | |
| | 119 1,2,3-Trichlorobenzene | 180 | 9.982 | 9.982 | (1.255) | 213566 | 19.2964 | 19.2964 | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

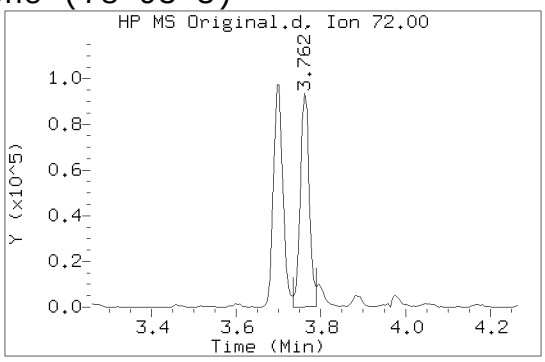

Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Pentane+
-Ethyl Ether
-Carbon disulfide
-Iodomethane
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Methyl acetate
-Hexane+
-Acetonitrile+
-Acrylonitrile
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Tetrahydrofuran+
-1,1,1-Trichloroethane+
-1,1-Dichloropropene+
-Heptane
-Propionitrile+
-1,2-Dichloroethane-d4+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
-m,p-Xylene
Chlorobenzene-d5+
-o-Xylene
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,1,2,2-Tetrachloroethane
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
Chlorobenzene
-Total Xylenes
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
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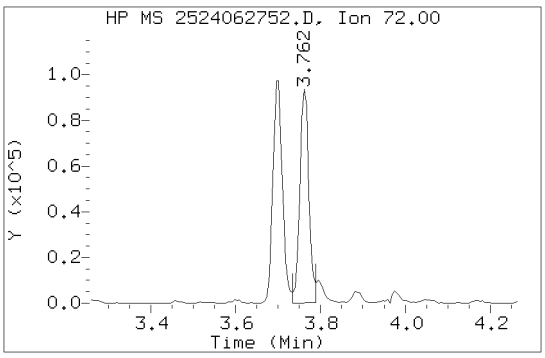
## 2-Butanone (78-93-3)

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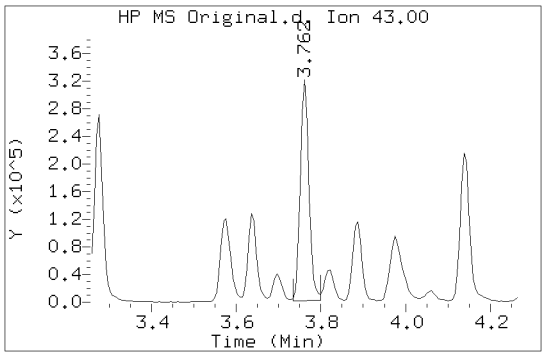
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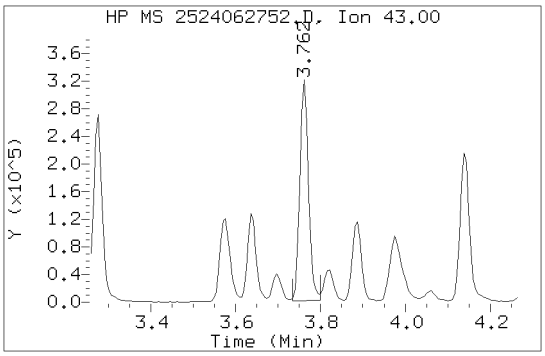

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BEFORE
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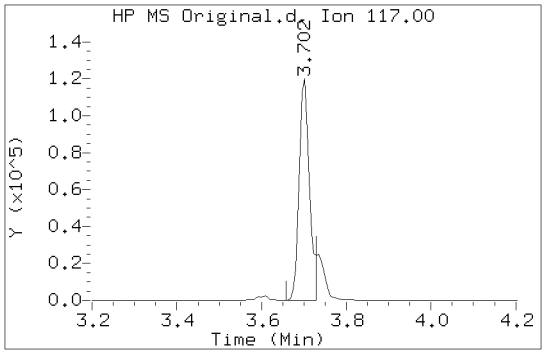

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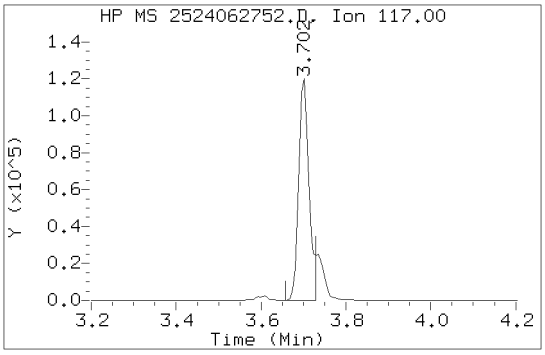

## Carbon Tetrachloride (56-23-5)

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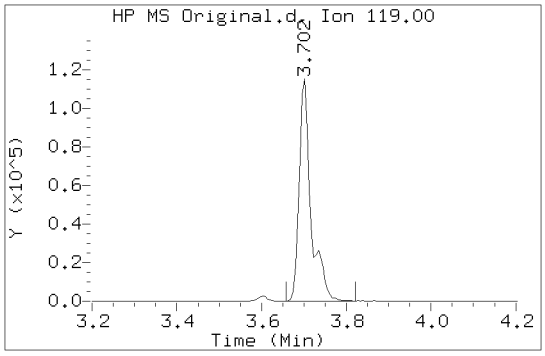
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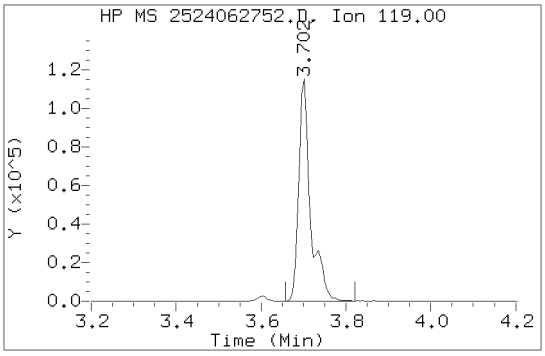

AFTER
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HEIGHT
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15:11




BEFORE
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HEIGHT
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27-Jun-2024
20:03




AFTER
MASS
119
AREA
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HEIGHT
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28-Jun-2024
15:11



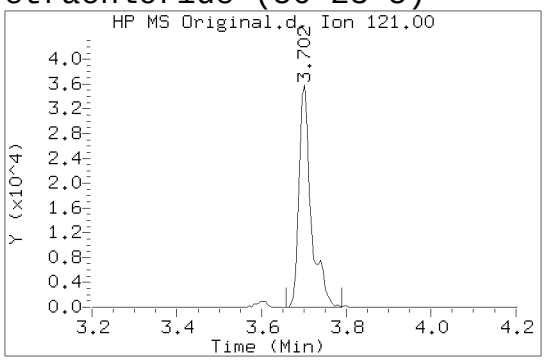
Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062752.D
Inj Date : 27-JUN-2024 19:49
InstruID : ms25.i
LabSampID : 3845609

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

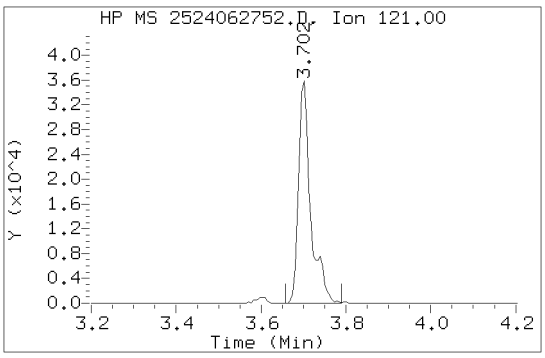
**BEFORE**

MASS
121
AREA
71636
HEIGHT
35856
27-Jun-2024
20:03




**AFTER**

MASS
121
AREA
71636
HEIGHT
35856
28-Jun-2024
15:11

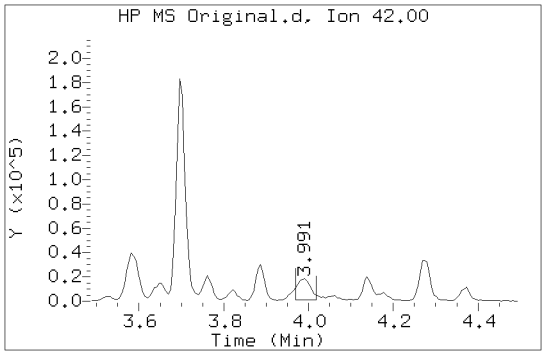



## Isobutyl alcohol (78-83-1)

Reason Code: MP

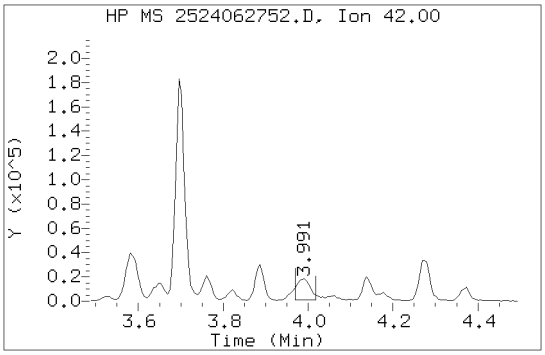
**BEFORE**

MASS
42
AREA
39338
HEIGHT
17351
27-Jun-2024
20:03



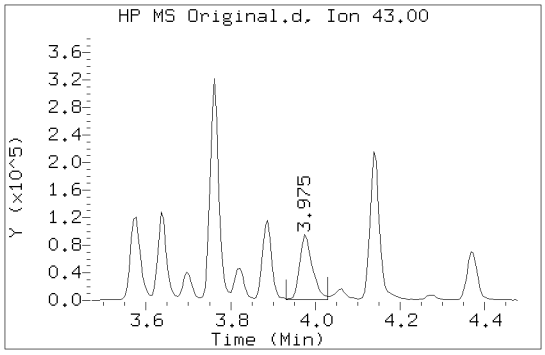

**AFTER**

MASS
42
AREA
39338
HEIGHT
17351
28-Jun-2024
15:11



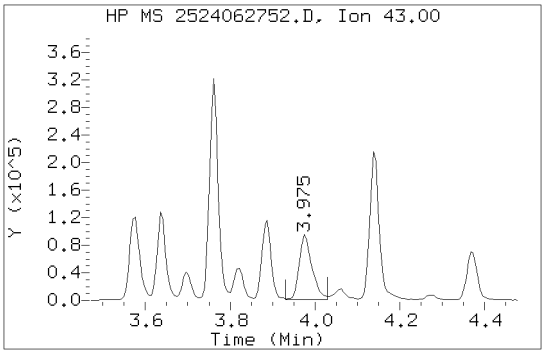

**BEFORE**

MASS
43
AREA
195671
HEIGHT
94477
27-Jun-2024
20:03



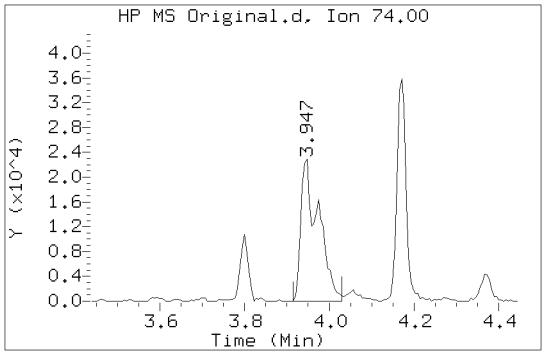

**AFTER**

MASS
43
AREA
195671
HEIGHT
94477
28-Jun-2024
15:11



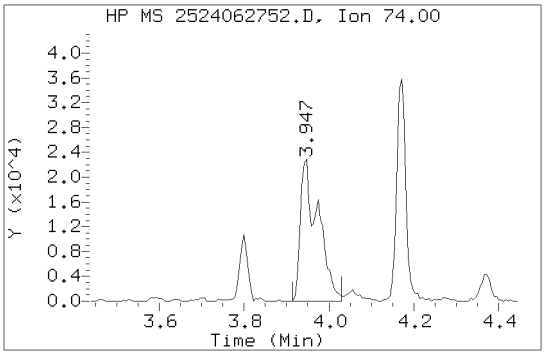

**BEFORE**

MASS
74
AREA
66614
HEIGHT
22904
27-Jun-2024
20:03




**AFTER**

MASS
74
AREA
66614
HEIGHT
22904
28-Jun-2024
15:11

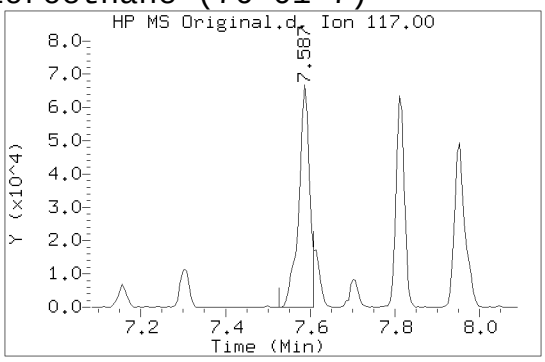


Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062752.D
Inj Date : 27-JUN-2024 19:49
InstruID : ms25.i
LabSampID : 3845609

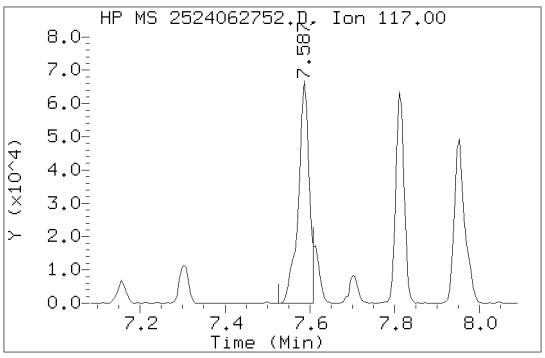
## Pentachloroethane (76-01-7)

Reason Code: MP

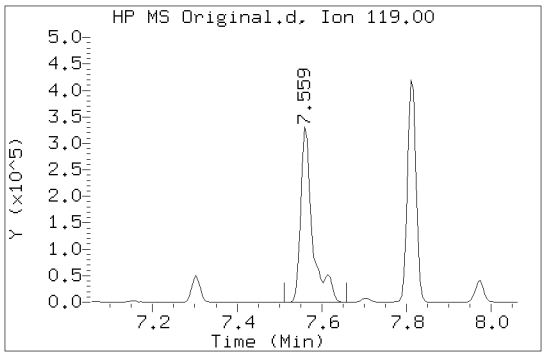
BEFORE
MASS
117
AREA
120221
HEIGHT
66776
27-Jun-2024
20:03



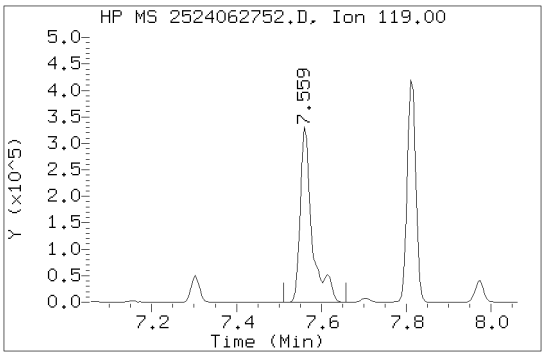

AFTER
MASS
117
AREA
120221
HEIGHT
66776
28-Jun-2024
15:11



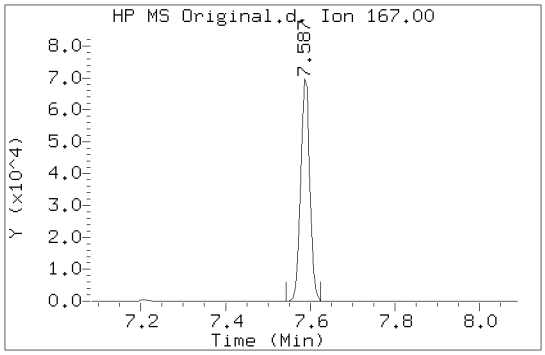

BEFORE
MASS
119
AREA
644668
HEIGHT
331648
27-Jun-2024
20:03



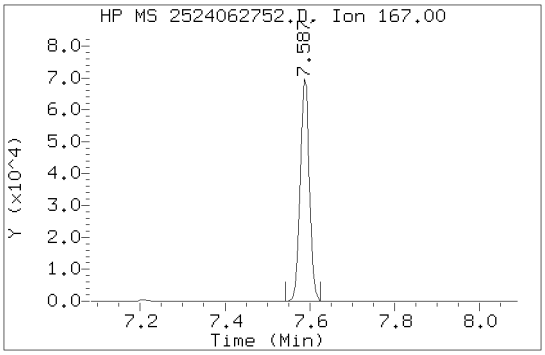

AFTER
MASS
119
AREA
644668
HEIGHT
331648
28-Jun-2024
15:11




BEFORE
MASS
167
AREA
104312
HEIGHT
69680
27-Jun-2024
20:03



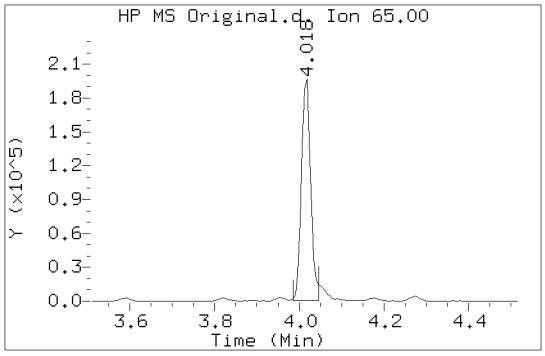

AFTER
MASS
167
AREA
104312
HEIGHT
69680
28-Jun-2024
15:11



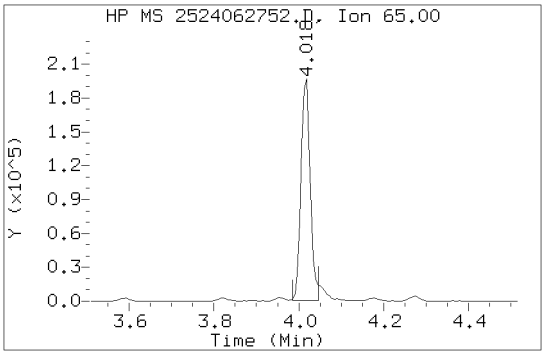

## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

BEFORE
MASS
65
AREA
299523
HEIGHT
196453
27-Jun-2024
20:03




AFTER
MASS
65
AREA
299523
HEIGHT
196453
28-Jun-2024
15:11



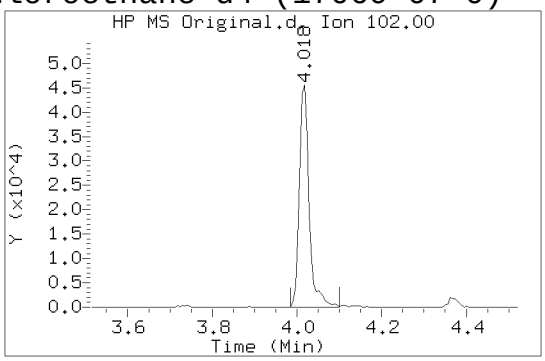
Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062752.D
Inj Date : 27-JUN-2024 19:49
InstruID : ms25.i
LabSampID : 3845609

## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

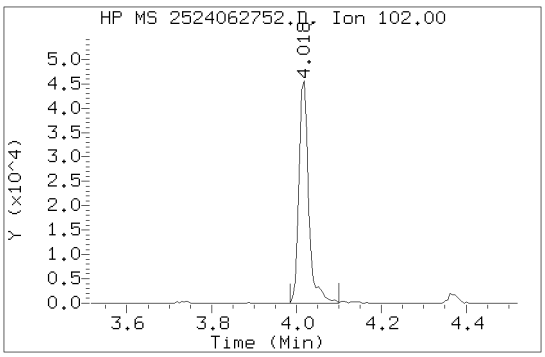
BEFORE

MASS
102
AREA
73332
HEIGHT
45600
27-Jun-2024
20:03



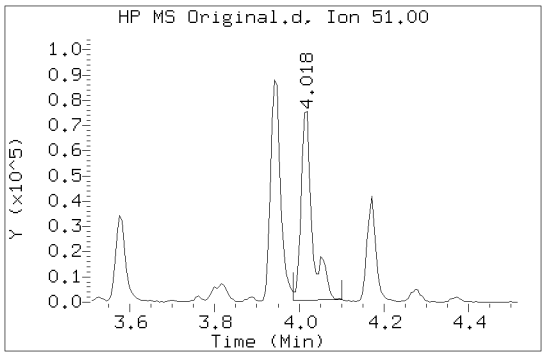

AFTER

MASS
102
AREA
73332
HEIGHT
45600
28-Jun-2024
15:11



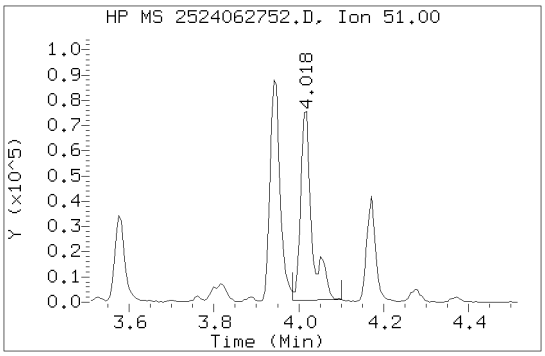

BEFORE

MASS
51
AREA
139010
HEIGHT
74860
27-Jun-2024
20:03




AFTER

MASS
51
AREA
139010
HEIGHT
74860
28-Jun-2024
15:11



# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:11
Client ID: LCS for HBN 1235666
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 27-JUN-2024 19:49
Operator: BST

There were no Unassigned peaks in this sample!

Data File: 2524062755.D Page 1
Report Date: 28-Jun-2024 15:12

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062755.D
Lab Smp Id: 3845608 Client Smp ID: MB for HBN 1235666
Inj Date : 27-JUN-2024 21:10
Operator : BST Inst ID: ms25.i
Smp Info : 3845608;;1;3;;MB;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | | |
| 2 Chloromethane | 50 | Compound Not Detected. | | | | | | |
| 3 Vinyl Chloride | 62 | Compound Not Detected. | | | | | | |
| 4 Bromomethane | 94 | Compound Not Detected. | | | | | | |
| 5 Chloroethane | 64 | Compound Not Detected. | | | | | | |
| 6 Pentane | 41 | Compound Not Detected. | | | | | | |
| 7 Trichlorofluoromethane | 101 | Compound Not Detected. | | | | | | |
| 8 Dichlorofluoromethane | 67 | Compound Not Detected. | | | | | | |
| 9 Ethyl Ether | 74 | Compound Not Detected. | | | | | | |
| 10 1,1-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 12 Carbon Disulfide | 76 | Compound Not Detected. | | | | | | |
| 11 Freon 113 | 101 | Compound Not Detected. | | | | | | |
| 13 Iodomethane | 127 | Compound Not Detected. | | | | | | |
| 14 Acrolein | 56 | Compound Not Detected. | | | | | | |
| 16 3-Chloro-1-propene | 41 | Compound Not Detected. | | | | | | |
| 15 Isopropyl Alcohol | 45 | Compound Not Detected. | | | | | | |
| 17 Methylene Chloride | 84 | Compound Not Detected. | | | | | | |
| 18 Acetone | 58 | Compound Not Detected. | | | | | | |
| 19 Methyl acetate | 74 | Compound Not Detected. | | | | | | |
| 20 trans-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 21 Hexane | 57 | Compound Not Detected. | | | | | | |
| 22 Methyl t-Butyl Ether | 73 | Compound Not Detected. | | | | | | |

Data File: 2524062755.D Page 2
Report Date: 28-Jun-2024 15:12

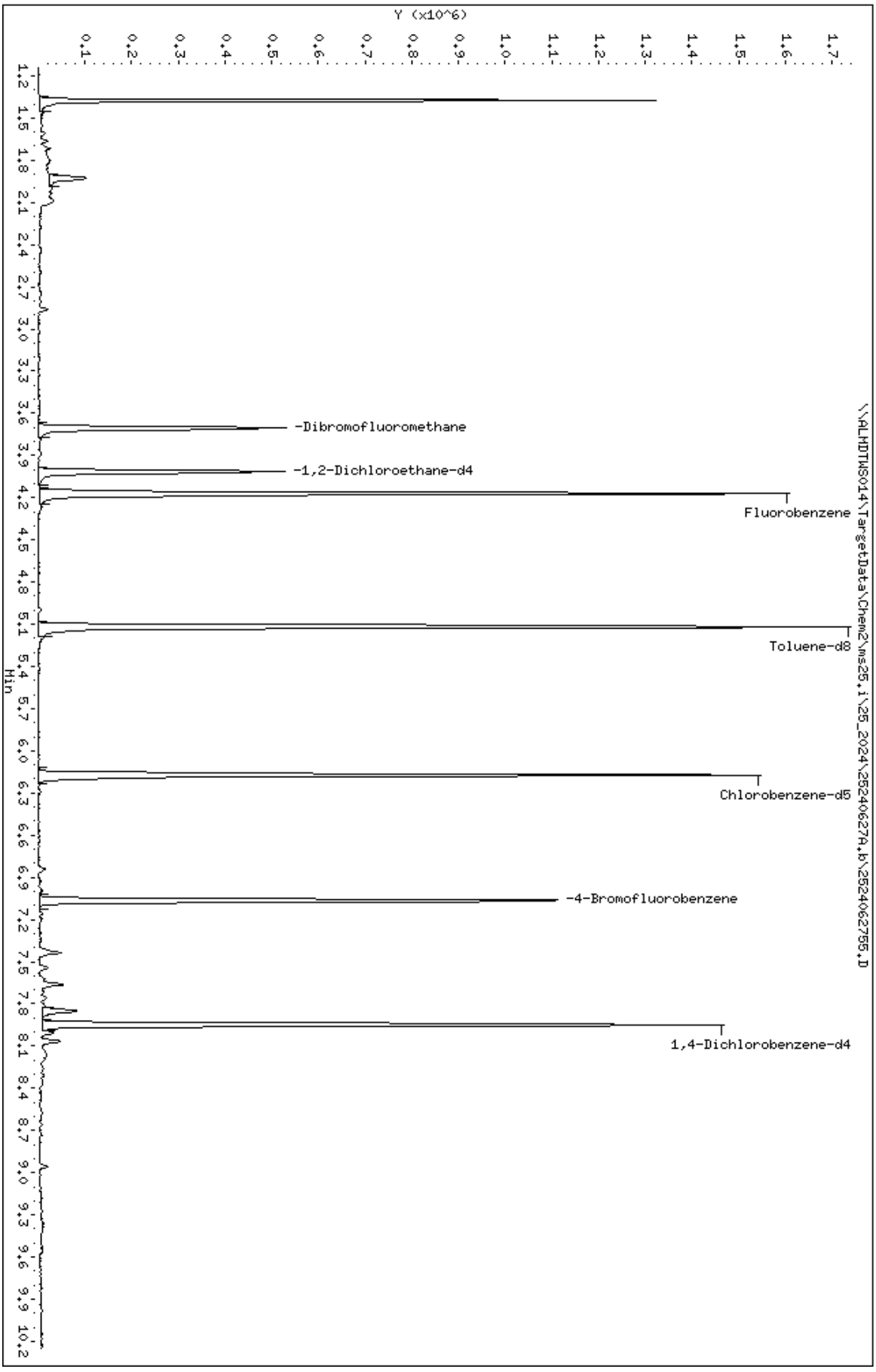
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 23 tert.- Butyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| | 24 Acetonitrile | 41 | Compound Not Detected. | | | | | | |
| | 25 Diisopropyl ether | 45 | Compound Not Detected. | | | | | | |
| | 26 Chloroprene | 53 | Compound Not Detected. | | | | | | |
| | 27 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | | |
| | 28 Acrylonitrile | 53 | Compound Not Detected. | | | | | | |
| | 30 n-Propanol | 41 | Compound Not Detected. | | | | | | |
| | 29 Ethyl tert-butyl ether | 59 | Compound Not Detected. | | | | | | |
| | 31 Vinyl acetate | 86 | Compound Not Detected. | | | | | | |
| | 32 cis-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| | 33 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | | |
| M | 100 1,2-Dichloroethene, Total | 61 | Compound Not Detected. | | | | | | |
| | 34 Bromochloromethane | 128 | Compound Not Detected. | | | | | | |
| | 35 Cyclohexane | 84 | Compound Not Detected. | | | | | | |
| | 36 Chloroform | 83 | Compound Not Detected. | | | | | | |
| | 37 Ethyl acetate | 43 | Compound Not Detected. | | | | | | |
| | 38 Methyl acrylate | 55 | Compound Not Detected. | | | | | | |
| | 39 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | | |
| | 40 Tetrahydrofuran | 42 | Compound Not Detected. | | | | | | |
| $ | 41 Dibromofluoromethane | 113 | 3.706 | 3.707 | (0.889) | 253615 | 27.5793 | 27.5793 | |
| | 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | | |
| | 43 2-Butanone | 72 | Compound Not Detected. | | | | | | |
| | 44 1,1-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 45 1-Chlorobutane | 41 | Compound Not Detected. | | | | | | |
| | 46 Heptane | 71 | Compound Not Detected. | | | | | | |
| | 48 Propionitrile | 54 | Compound Not Detected. | | | | | | |
| | 47 Benzene | 78 | Compound Not Detected. | | | | | | |
| | 49 Methacrylonitrile | 67 | Compound Not Detected. | | | | | | |
| | 50 tert-amyl methyl Ether | 73 | Compound Not Detected. | | | | | | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.017 | 4.012 | (0.963) | 289921 | 29.9078 | 29.9078 | |
| | 54 Isobutyl alcohol | 42 | Compound Not Detected. | | | | | | |
| | 52 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | | |
| | 53 tert-Amyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| * | 55 Fluorobenzene | 96 | 4.170 | 4.171 | (1.000) | 1165460 | 30.0000 | | |
| | 56 Diisobutylene | 57 | Compound Not Detected. | | | | | | |
| | 57 Trichloroethene | 95 | Compound Not Detected. | | | | | | |
| | 58 Methyl cyclohexane | 83 | Compound Not Detected. | | | | | | |
| | 59 tert-Amyl Ethylether | 59 | Compound Not Detected. | | | | | | |
| | 60 Dibromomethane | 93 | Compound Not Detected. | | | | | | |
| | 61 1,2-Dichloropropane | 63 | Compound Not Detected. | | | | | | |
| | 62 Bromodichloromethane | 83 | Compound Not Detected. | | | | | | |
| | 63 Methyl methacrylate | 41 | Compound Not Detected. | | | | | | |
| | 65 2-Chloroethylvinyl ether | 63 | Compound Not Detected. | | | | | | |
| | 66 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 67 Octane | 85 | Compound Not Detected. | | | | | | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 1000510 | 30.1513 | 30.1513 | |
| | 69 Toluene | 92 | Compound Not Detected. | | | | | | |
| | 70 Chloroacetonitrile | 75 | Compound Not Detected. | | | | | | |
| | 71 2-Nitropropane | 41 | Compound Not Detected. | | | | | | |
| | 72 1,1-Dichloro-2-propanone | 63 | Compound Not Detected. | | | | | | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | Compound Not Detected. | | | | | | |
| | 75 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 74 Tetrachloroethene | 164 | Compound Not Detected. | | | | | | |
| | 76 Ethyl methacrylate | 69 | Compound Not Detected. | | | | | | |

Data File: 2524062755.D Page 3
Report Date: 28-Jun-2024 15:12

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 1,1,2-Trichloroethane | 83 | Compound Not Detected. | | | | | | |
| 78 | Chlorodibromomethane | 129 | Compound Not Detected. | | | | | | |
| 79 | 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | | |
| 80 | 1,2-Dibromoethane | 107 | Compound Not Detected. | | | | | | |
| 81 | 2-Hexanone | 43 | Compound Not Detected. | | | | | | |
| 82 | 1-Chlorohexane | 91 | Compound Not Detected. | | | | | | |
| * 83 | Chlorobenzene-d5 | 82 | 6.173 | 6.173 | (1.000) | 419122 | 30.0000 | | |
| 85 | Ethylbenzene | 106 | Compound Not Detected. | | | | | | |
| 84 | Chlorobenzene | 112 | Compound Not Detected. | | | | | | |
| 86 | 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | | |
| 87 | mp-Xylene | 106 | Compound Not Detected. | | | | | | |
| M 120 | 1,3-Dichloropropene, Total | 75 | Compound Not Detected. | | | | | | |
| 88 | o-Xylene | 106 | Compound Not Detected. | | | | | | |
| 89 | Styrene | 104 | Compound Not Detected. | | | | | | |
| 90 | Bromoform | 173 | Compound Not Detected. | | | | | | |
| 91 | Isopropylbenzene | 105 | Compound Not Detected. | | | | | | |
| $ 92 | 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 301165 | 29.7315 | 29.7315 | |
| M 121 | TOTAL XYLENES | 106 | Compound Not Detected. | | | | | | |
| 94 | n-Propylbenzene | 120 | Compound Not Detected. | | | | | | |
| 93 | Bromobenzene | 156 | Compound Not Detected. | | | | | | |
| 95 | 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | | |
| 97 | 1,3,5-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| 96 | o-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| 98 | 1,2,3-Trichloropropane | 110 | Compound Not Detected. | | | | | | |
| 99 | trans-1,4-Dichloro-2-butene | 53 | Compound Not Detected. | | | | | | |
| 101 | p-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| 102 | tert-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| 103 | Pentachloroethane | 117 | Compound Not Detected. | | | | | | |
| 104 | 1,2,4-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| 105 | sec-Butylbenzene | 105 | Compound Not Detected. | | | | | | |
| 106 | p-Isopropyltoluene | 134 | Compound Not Detected. | | | | | | |
| 107 | 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| * 108 | 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 366151 | 30.0000 | | (Q) |
| 109 | 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| 111 | n-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| 110 | Benzyl Chloride | 126 | Compound Not Detected. | | | | | | |
| 112 | Hexachloroethane | 117 | Compound Not Detected. | | | | | | |
| 113 | 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| 114 | 1,2-Dibromo-3-chloropropane | 75 | Compound Not Detected. | | | | | | |
| 115 | Nitrobenzene | 77 | Compound Not Detected. | | | | | | |
| 116 | Hexachlorobutadiene | 225 | Compound Not Detected. | | | | | | |
| 117 | 1,2,4-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |
| 118 | Naphthalene | 128 | Compound Not Detected. | | | | | | |
| 119 | 1,2,3-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.


Data File: \\ALHDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25240627S5.D
Date : 27-JUN-2024 21:10
Client ID: MB for HBN 1235666
Sample Info: 3845608;;1;3;;MB;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25.i
Operator: BST
Column diameter: 0.25
Page 1
Y (x10^6)
\\ALHDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25240627S5.D
-Dibromofluoromethane
-1,2-Dichloroethane-d4
Fluorobenzene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
Min

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062755.D
Inj Date  : 27-JUN-2024 21:10
InstruID  : ms25.i
LabSampID : 3845608

NO MANUAL INTEGRATIONS

# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:12
Client ID: MB for HBN 1235666
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 27-JUN-2024 21:10
Operator: BST

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
Chloroethane
1,2-Dichloroethane
Heptane
2-Nitropropane
Benzyl Chloride
1-Chlorohexane
Ethyl methacrylate
Methacrylonitrile

Data File: 2524062757.D Page 1
Report Date: 28-Jun-2024 15:13

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062757.D
Lab Smp Id: 3366027011 Client Smp ID: HS24061196-11
Inj Date : 27-JUN-2024 21:53
Operator : BST Inst ID: ms25.i
Smp Info : 3366027011;;1;;;;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | | |
| 2 Chloromethane | 50 | Compound Not Detected. | | | | | | |
| 3 Vinyl Chloride | 62 | Compound Not Detected. | | | | | | |
| 4 Bromomethane | 94 | Compound Not Detected. | | | | | | |
| 5 Chloroethane | 64 | Compound Not Detected. | | | | | | |
| 6 Pentane | 41 | Compound Not Detected. | | | | | | |
| 7 Trichlorofluoromethane | 101 | 2.097 | 2.097 | (0.503) | 55281 | 2.82148 | 2.82148 | |
| 8 Dichlorofluoromethane | 67 | Compound Not Detected. | | | | | | |
| 9 Ethyl Ether | 74 | Compound Not Detected. | | | | | | |
| 10 1,1-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 12 Carbon Disulfide | 76 | Compound Not Detected. | | | | | | |
| 11 Freon 113 | 101 | Compound Not Detected. | | | | | | |
| 13 Iodomethane | 127 | Compound Not Detected. | | | | | | |
| 14 Acrolein | 56 | Compound Not Detected. | | | | | | |
| 16 3-Chloro-1-propene | 41 | Compound Not Detected. | | | | | | |
| 15 Isopropyl Alcohol | 45 | Compound Not Detected. | | | | | | |
| 17 Methylene Chloride | 84 | Compound Not Detected. | | | | | | |
| 18 Acetone | 58 | Compound Not Detected. | | | | | | |
| 19 Methyl acetate | 74 | Compound Not Detected. | | | | | | |
| 20 trans-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 21 Hexane | 57 | Compound Not Detected. | | | | | | |

Data File: 2524062757.D Page 2
Report Date: 28-Jun-2024 15:13

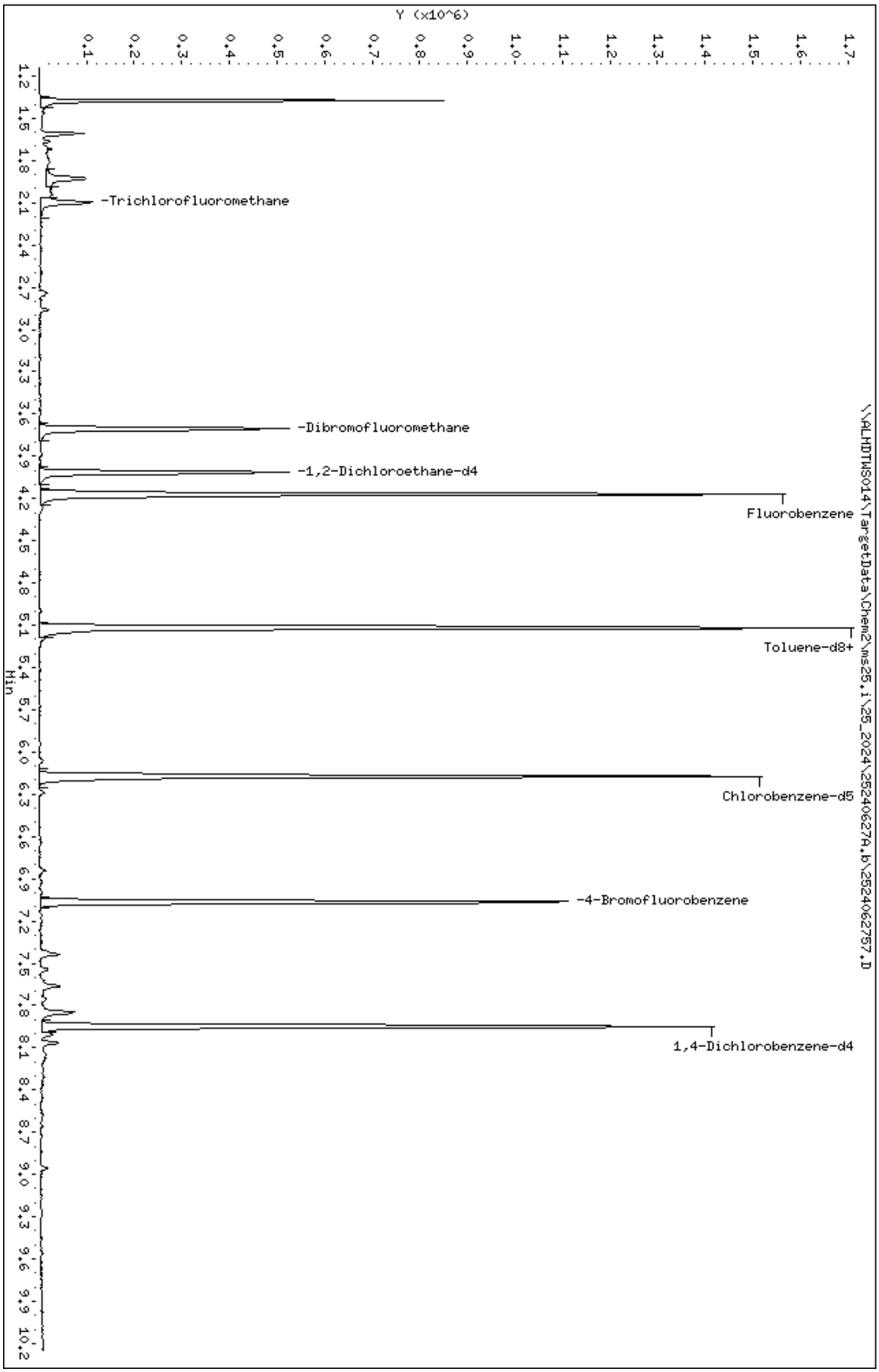
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | Compound Not Detected. | | | | | | |
| | 23 tert.- Butyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| | 24 Acetonitrile | 41 | Compound Not Detected. | | | | | | |
| | 25 Diisopropyl ether | 45 | Compound Not Detected. | | | | | | |
| | 26 Chloroprene | 53 | Compound Not Detected. | | | | | | |
| | 27 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | | |
| | 28 Acrylonitrile | 53 | Compound Not Detected. | | | | | | |
| | 30 n-Propanol | 41 | Compound Not Detected. | | | | | | |
| | 29 Ethyl tert-butyl ether | 59 | Compound Not Detected. | | | | | | |
| | 31 Vinyl acetate | 86 | Compound Not Detected. | | | | | | |
| | 32 cis-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| | 33 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | | |
| M | 100 1,2-Dichloroethene, Total | 61 | Compound Not Detected. | | | | | | |
| | 34 Bromochloromethane | 128 | Compound Not Detected. | | | | | | |
| | 35 Cyclohexane | 84 | Compound Not Detected. | | | | | | |
| | 36 Chloroform | 83 | Compound Not Detected. | | | | | | |
| | 37 Ethyl acetate | 43 | Compound Not Detected. | | | | | | |
| | 38 Methyl acrylate | 55 | Compound Not Detected. | | | | | | |
| | 39 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | | |
| | 40 Tetrahydrofuran | 42 | Compound Not Detected. | | | | | | |
| $ | 41 Dibromofluoromethane | 113 | 3.707 | 3.707 | (0.889) | 241789 | 26.7971 | 26.7971 | |
| | 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | | |
| | 43 2-Butanone | 72 | Compound Not Detected. | | | | | | |
| | 44 1,1-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 45 1-Chlorobutane | 41 | Compound Not Detected. | | | | | | |
| | 46 Heptane | 71 | Compound Not Detected. | | | | | | |
| | 48 Propionitrile | 54 | Compound Not Detected. | | | | | | |
| | 47 Benzene | 78 | Compound Not Detected. | | | | | | |
| | 49 Methacrylonitrile | 67 | Compound Not Detected. | | | | | | |
| | 50 tert-amyl methyl Ether | 73 | Compound Not Detected. | | | | | | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.018 | 4.012 | (0.963) | 288714 | 30.3540 | 30.3540 | |
| | 54 Isobutyl alcohol | 42 | Compound Not Detected. | | | | | | |
| | 52 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | | |
| | 53 tert-Amyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| * | 55 Fluorobenzene | 96 | 4.170 | 4.171 | (1.000) | 1143548 | 30.0000 | | |
| | 56 Diisobutylene | 57 | Compound Not Detected. | | | | | | |
| | 57 Trichloroethene | 95 | Compound Not Detected. | | | | | | |
| | 58 Methyl cyclohexane | 83 | Compound Not Detected. | | | | | | |
| | 59 tert-Amyl Ethylether | 59 | Compound Not Detected. | | | | | | |
| | 60 Dibromomethane | 93 | Compound Not Detected. | | | | | | |
| | 61 1,2-Dichloropropane | 63 | Compound Not Detected. | | | | | | |
| | 62 Bromodichloromethane | 83 | Compound Not Detected. | | | | | | |
| | 63 Methyl methacrylate | 41 | Compound Not Detected. | | | | | | |
| | 65 2-Chloroethylvinyl ether | 63 | Compound Not Detected. | | | | | | |
| | 66 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 67 Octane | 85 | Compound Not Detected. | | | | | | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 991222 | 30.9290 | 30.9290 | |
| | 69 Toluene | 92 | 5.153 | 5.153 | (0.835) | 5468 | 0.26919 | 0.269190(a) | |
| | 70 Chloroacetonitrile | 75 | Compound Not Detected. | | | | | | |
| | 71 2-Nitropropane | 41 | Compound Not Detected. | | | | | | |
| | 72 1,1-Dichloro-2-propanone | 63 | Compound Not Detected. | | | | | | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | Compound Not Detected. | | | | | | |
| | 75 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 74 Tetrachloroethene | 164 | Compound Not Detected. | | | | | | |

Data File: 2524062757.D Page 3
Report Date: 28-Jun-2024 15:13

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl methacrylate | 69 | Compound Not Detected. | | | | | | |
| | 77 1,1,2-Trichloroethane | 83 | Compound Not Detected. | | | | | | |
| | 78 Chlorodibromomethane | 129 | Compound Not Detected. | | | | | | |
| | 79 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | | |
| | 80 1,2-Dibromoethane | 107 | Compound Not Detected. | | | | | | |
| | 81 2-Hexanone | 43 | Compound Not Detected. | | | | | | |
| | 82 1-Chlorohexane | 91 | Compound Not Detected. | | | | | | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.173 | (1.000) | 404789 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | Compound Not Detected. | | | | | | |
| | 84 Chlorobenzene | 112 | Compound Not Detected. | | | | | | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | | |
| | 87 mp-Xylene | 106 | Compound Not Detected. | | | | | | |
| M | 120 1,3-Dichloropropene, Total | 75 | Compound Not Detected. | | | | | | |
| | 88 o-Xylene | 106 | Compound Not Detected. | | | | | | |
| | 89 Styrene | 104 | Compound Not Detected. | | | | | | |
| | 90 Bromoform | 173 | Compound Not Detected. | | | | | | |
| | 91 Isopropylbenzene | 105 | Compound Not Detected. | | | | | | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 291363 | 29.6585 | 29.6585 | |
| M | 121 TOTAL XYLENES | 106 | Compound Not Detected. | | | | | | |
| | 94 n-Propylbenzene | 120 | Compound Not Detected. | | | | | | |
| | 93 Bromobenzene | 156 | Compound Not Detected. | | | | | | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | | |
| | 97 1,3,5-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 96 o-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 98 1,2,3-Trichloropropane | 110 | Compound Not Detected. | | | | | | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | Compound Not Detected. | | | | | | |
| | 101 p-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 102 tert-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 103 Pentachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 104 1,2,4-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 105 sec-Butylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 106 p-Isopropyltoluene | 134 | Compound Not Detected. | | | | | | |
| | 107 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 355106 | 30.0000 | | (Q) |
| | 109 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 111 n-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 110 Benzyl Chloride | 126 | Compound Not Detected. | | | | | | |
| | 112 Hexachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 113 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | Compound Not Detected. | | | | | | |
| | 115 Nitrobenzene | 77 | Compound Not Detected. | | | | | | |
| | 116 Hexachlorobutadiene | 225 | Compound Not Detected. | | | | | | |
| | 117 1,2,4-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |
| | 118 Naphthalene | 128 | Compound Not Detected. | | | | | | |
| | 119 1,2,3-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.




Data File: \\ALMDTWS014\TargetData\Chem2\ms25,i\25_2024\25240627A,b\25240627S7.D
Date : 27-JUN-2024 21:53
Client ID: HS24061196-11
Sample Info: 33660270111;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25,i
Operator: BST
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062757.D Page 2

Date : 27-JUN-2024 21:53

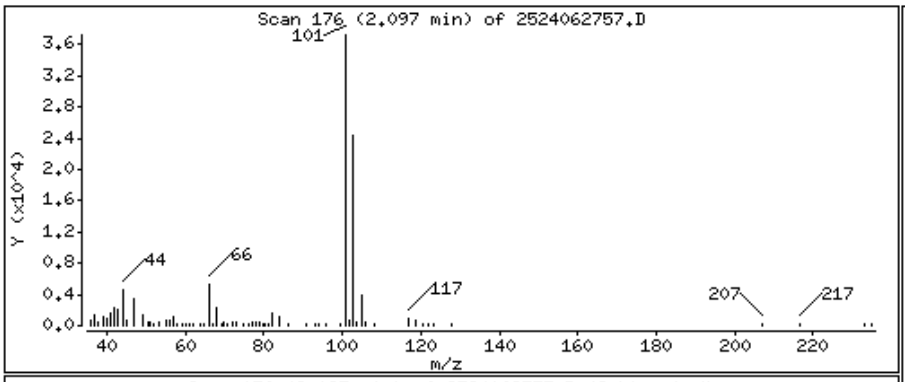
Client ID: HS24061196-11 Instrument: ms25.i

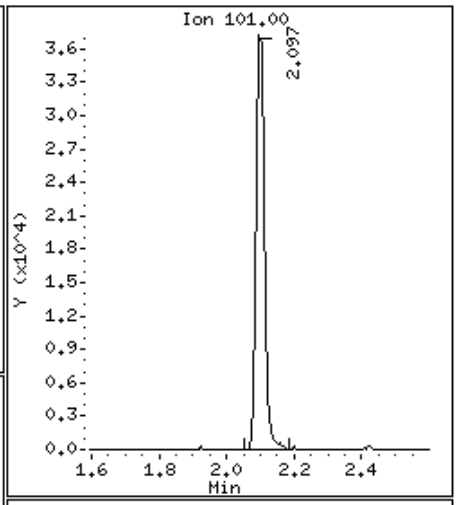
Sample Info: 3366027011;;1;;;;;

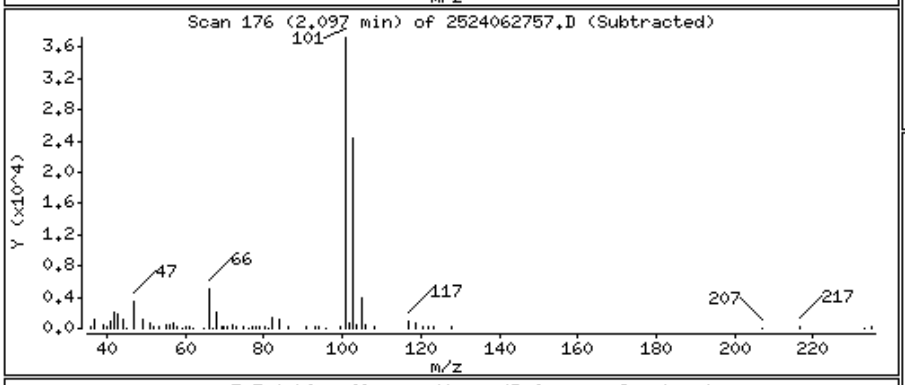
Purge Volume: 5.0 Operator: BST

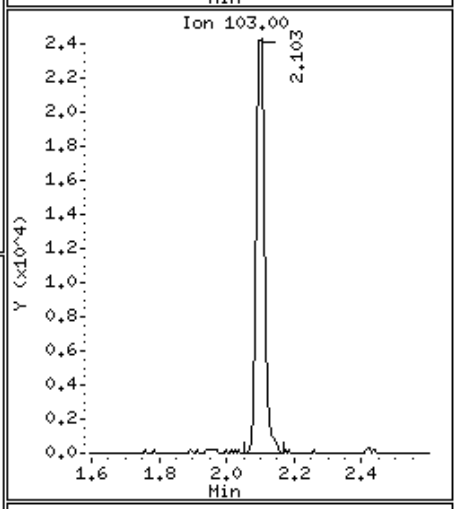
Column phase: DB-VRX Column diameter: 0.25

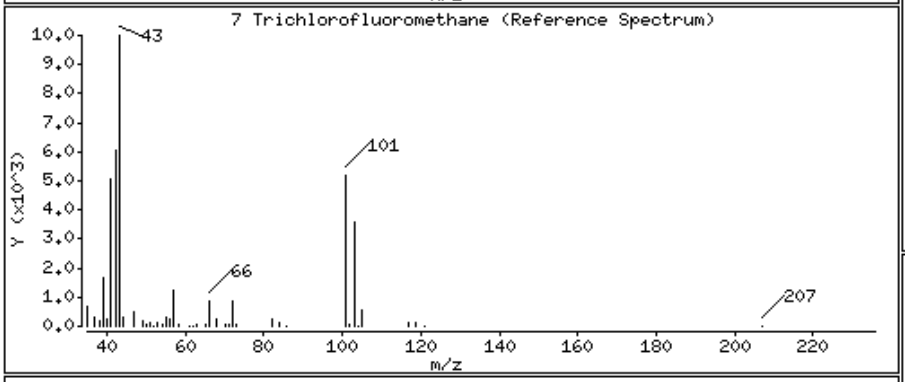
7 Trichlorofluoromethane Concentration: 2.82148 ug/L

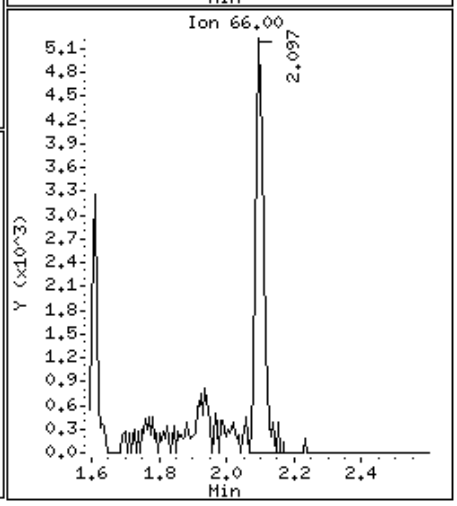


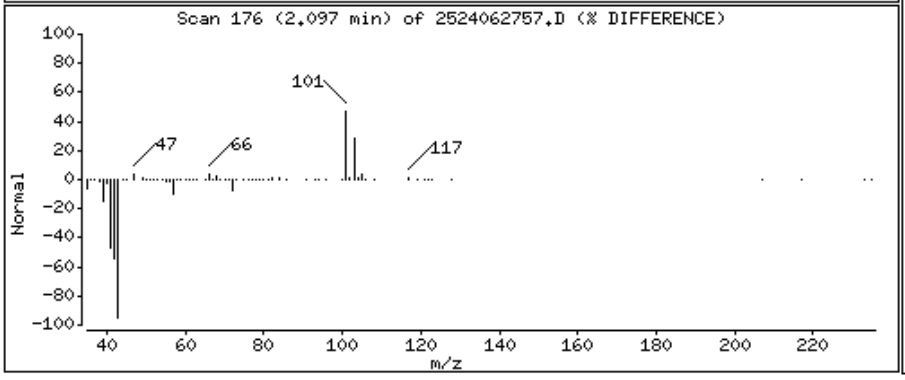



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062757.D Page 3

Date : 27-JUN-2024 21:53

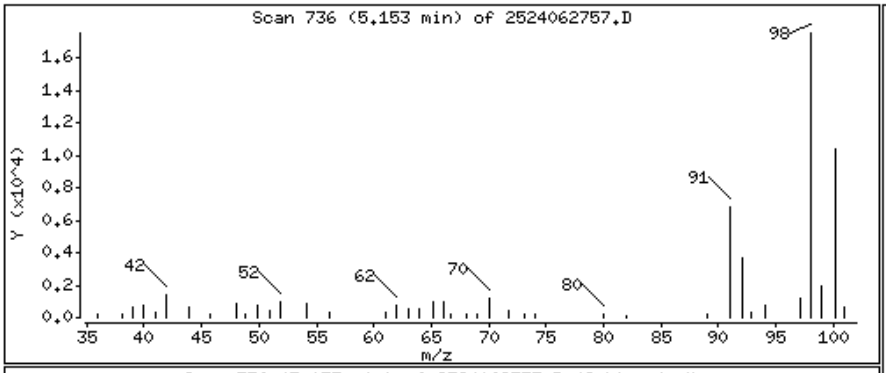
Client ID: HS24061196-11 Instrument: ms25.i

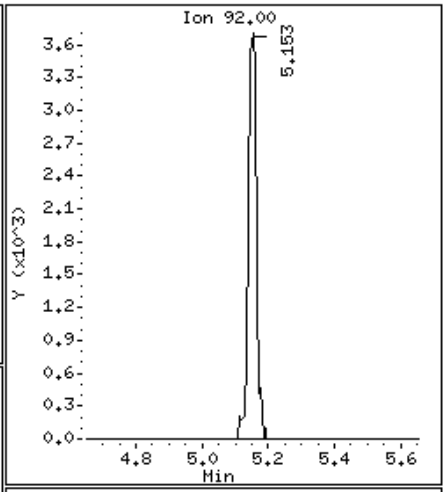
Sample Info: 3366027011;;1;;;;;

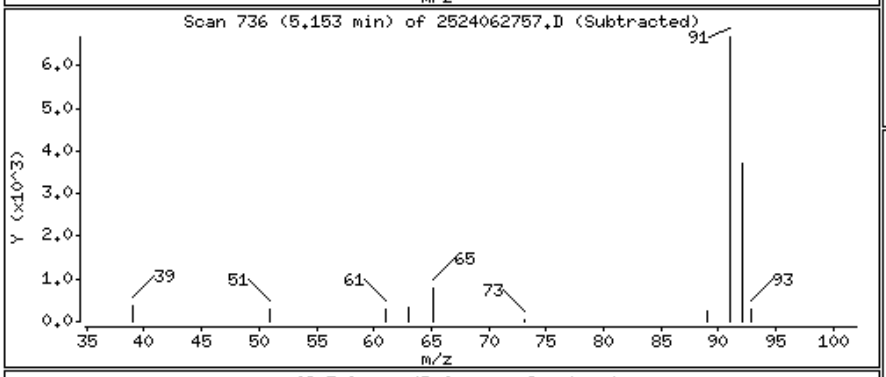
Purge Volume: 5.0 Operator: BST

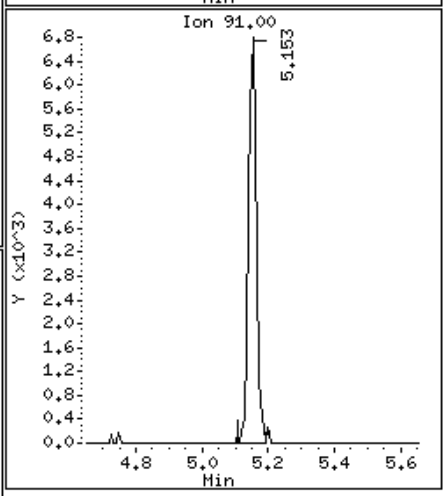
Column phase: DB-VRX Column diameter: 0.25

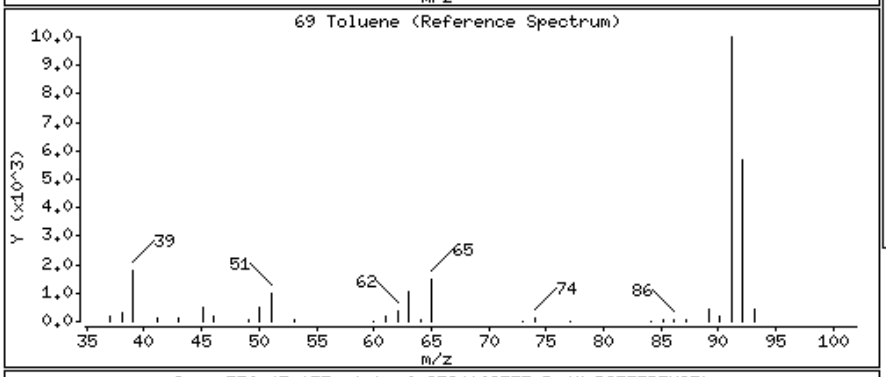
69 Toluene Concentration: 0.269190 ug/L

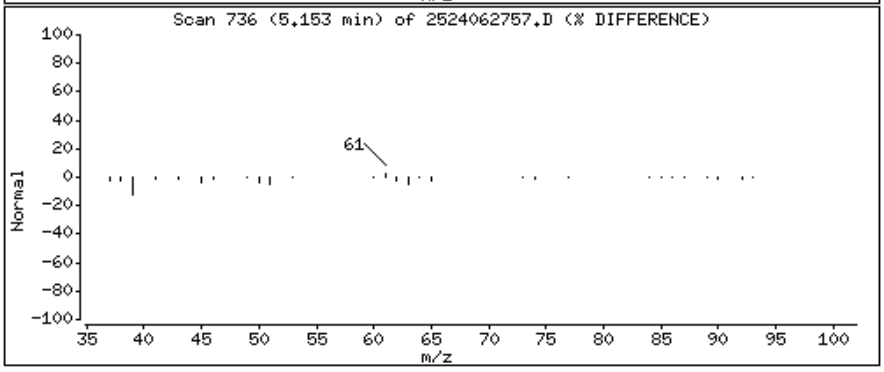


Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062757.D
Inj Date  : 27-JUN-2024 21:53
InstruID  : ms25.i
LabSampID : 3366027011

NO MANUAL INTEGRATIONS

# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:14
Client ID: HS24061196-11
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 27-JUN-2024 21:53
Operator: BST

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

| | |
|---|---|
| Acetonitrile | Benzyl Chloride |
| Chloroethane | 1-Chlorohexane |
| 1,1-Dichloro-2-propanone | 1,2-Dichloroethane |
| Ethyl methacrylate | Heptane |
| Methacrylonitrile | 2-Nitropropane |

Data File: 2524062766.D Page 1
Report Date: 28-Jun-2024 15:23

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062766.D
Lab Smp Id: 3366027001 Client Smp ID: HS24061196-01
Inj Date : 28-JUN-2024 00:56
Operator : BST Inst ID: ms25.i
Smp Info : 3366027001;;1;;;;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | | |
| 2 Chloromethane | 50 | Compound Not Detected. | | | | | | |
| 3 Vinyl Chloride | 62 | 1.704 | 1.704 | (0.409) | 4316 | 0.32919 | 0.329190(aQ) | |
| 4 Bromomethane | 94 | Compound Not Detected. | | | | | | |
| 5 Chloroethane | 64 | Compound Not Detected. | | | | | | |
| 6 Pentane | 41 | Compound Not Detected. | | | | | | |
| 7 Trichlorofluoromethane | 101 | Compound Not Detected. | | | | | | |
| 8 Dichlorofluoromethane | 67 | Compound Not Detected. | | | | | | |
| 9 Ethyl Ether | 74 | Compound Not Detected. | | | | | | |
| 10 1,1-Dichloroethene | 61 | 2.414 | 2.414 | (0.579) | 54826 | 5.43727 | 5.43727(H) | |
| 12 Carbon Disulfide | 76 | Compound Not Detected. | | | | | | |
| 11 Freon 113 | 101 | 2.424 | 2.424 | (0.581) | 7096945 | 1000.67 | 1000.67(A) | |
| 13 Iodomethane | 127 | Compound Not Detected. | | | | | | |
| 14 Acrolein | 56 | Compound Not Detected. | | | | | | |
| 16 3-Chloro-1-propene | 41 | Compound Not Detected. | | | | | | |
| 15 Isopropyl Alcohol | 45 | Compound Not Detected. | | | | | | |
| 17 Methylene Chloride | 84 | Compound Not Detected. | | | | | | |
| 18 Acetone | 58 | Compound Not Detected. | | | | | | |
| 19 Methyl acetate | 74 | Compound Not Detected. | | | | | | |
| 20 trans-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 21 Hexane | 57 | Compound Not Detected. | | | | | | |

Data File: 2524062766.D Page 2
Report Date: 28-Jun-2024 15:23

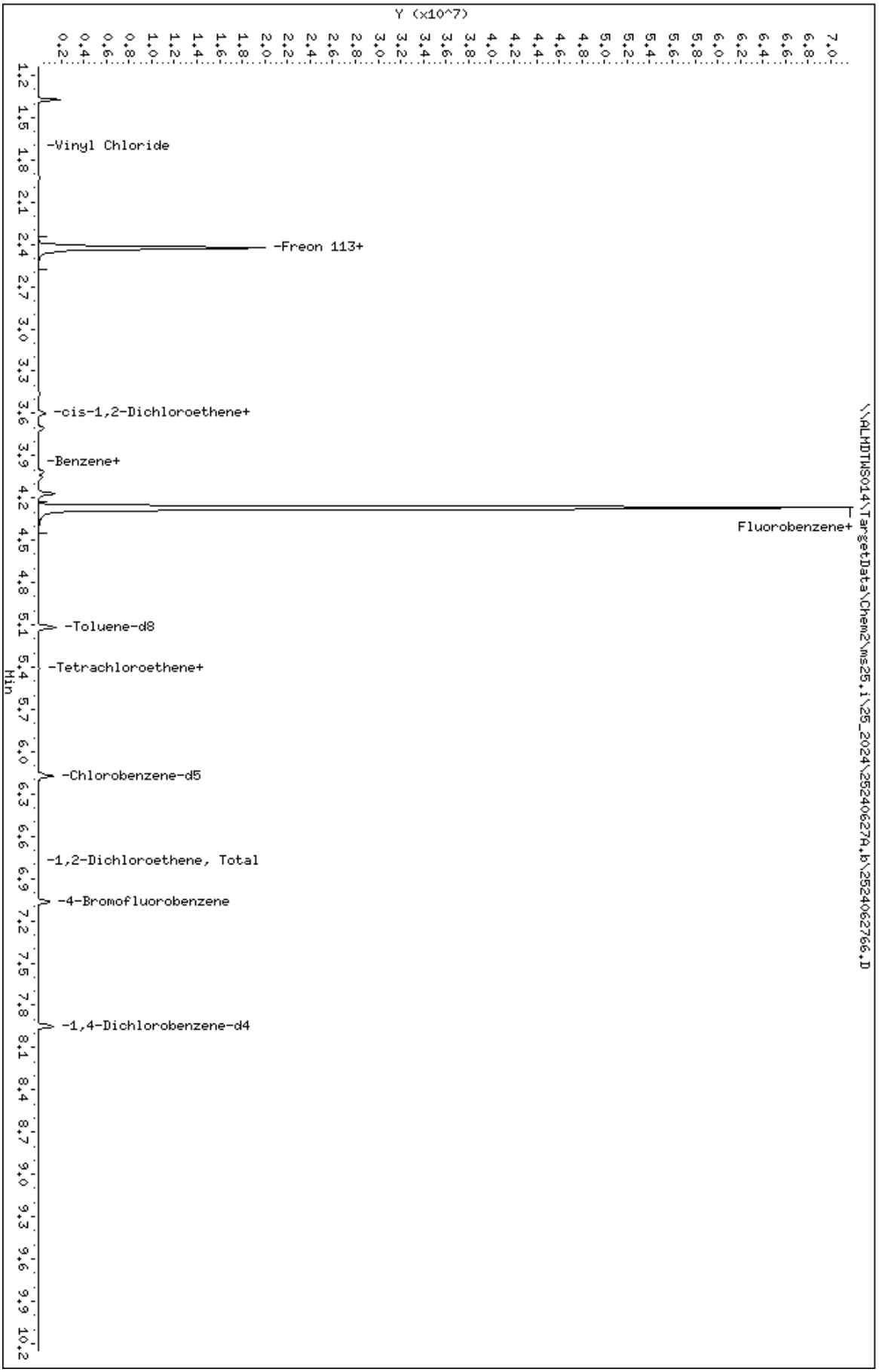
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | Compound Not Detected. | | | | | | |
| | 23 tert.- Butyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| | 24 Acetonitrile | 41 | Compound Not Detected. | | | | | | |
| | 25 Diisopropyl ether | 45 | Compound Not Detected. | | | | | | |
| | 26 Chloroprene | 53 | Compound Not Detected. | | | | | | |
| | 27 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | | |
| | 28 Acrylonitrile | 53 | Compound Not Detected. | | | | | | |
| | 30 n-Propanol | 41 | Compound Not Detected. | | | | | | |
| | 29 Ethyl tert-butyl ether | 59 | Compound Not Detected. | | | | | | |
| | 31 Vinyl acetate | 86 | Compound Not Detected. | | | | | | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.461 | 3.461 | (0.830) | 57340 | 5.72611 | 5.72611 | |
| | 33 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | | |
| M | 100 1,2-Dichloroethene, Total | 61 | | | | 57340 | 5.72611 | 5.72611 | |
| | 34 Bromochloromethane | 128 | Compound Not Detected. | | | | | | |
| | 35 Cyclohexane | 84 | Compound Not Detected. | | | | | | |
| | 36 Chloroform | 83 | 3.598 | 3.603 | (0.863) | 359871 | 24.7759 | 24.7759 | |
| | 37 Ethyl acetate | 43 | Compound Not Detected. | | | | | | |
| | 38 Methyl acrylate | 55 | Compound Not Detected. | | | | | | |
| | 39 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | | |
| | 40 Tetrahydrofuran | 42 | Compound Not Detected. | | | | | | |
| $ | 41 Dibromofluoromethane | 113 | 3.701 | 3.707 | (0.887) | 233146 | 28.1906 | 28.1906 | |
| | 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | | |
| | 43 2-Butanone | 72 | Compound Not Detected. | | | | | | |
| | 44 1,1-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 45 1-Chlorobutane | 41 | Compound Not Detected. | | | | | | |
| | 46 Heptane | 71 | Compound Not Detected. | | | | | | |
| | 48 Propionitrile | 54 | Compound Not Detected. | | | | | | |
| | 47 Benzene | 78 | 3.941 | 3.941 | (0.945) | 23816 | 0.72455 | 0.724552(a) | |
| | 49 Methacrylonitrile | 67 | Compound Not Detected. | | | | | | |
| | 50 tert-amyl methyl Ether | 73 | Compound Not Detected. | | | | | | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.012 | 4.012 | (0.962) | 276430 | 31.7072 | 31.7072 | |
| | 54 Isobutyl alcohol | 42 | Compound Not Detected. | | | | | | |
| | 52 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | | |
| | 53 tert-Amyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| * | 55 Fluorobenzene | 96 | 4.170 | 4.171 | (1.000) | 1048163 | 30.0000 | | |
| | 56 Diisobutylene | 57 | Compound Not Detected. | | | | | | |
| | 57 Trichloroethene | 95 | 4.263 | 4.269 | (1.022) | 15496627 | 1862.81 | 1862.81(A) | |
| | 58 Methyl cyclohexane | 83 | 4.269 | 4.274 | (0.692) | 262870 | 21.5248 | 21.5248(Q) | |
| | 59 tert-Amyl Ethylether | 59 | Compound Not Detected. | | | | | | |
| | 60 Dibromomethane | 93 | Compound Not Detected. | | | | | | |
| | 61 1,2-Dichloropropane | 63 | Compound Not Detected. | | | | | | |
| | 62 Bromodichloromethane | 83 | Compound Not Detected. | | | | | | |
| | 63 Methyl methacrylate | 41 | Compound Not Detected. | | | | | | |
| | 65 2-Chloroethylvinyl ether | 63 | Compound Not Detected. | | | | | | |
| | 66 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 67 Octane | 85 | Compound Not Detected. | | | | | | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 878826 | 29.4824 | 29.4824 | |
| | 69 Toluene | 92 | Compound Not Detected. | | | | | | |
| | 70 Chloroacetonitrile | 75 | Compound Not Detected. | | | | | | |
| | 71 2-Nitropropane | 41 | Compound Not Detected. | | | | | | |
| | 72 1,1-Dichloro-2-propanone | 63 | Compound Not Detected. | | | | | | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | Compound Not Detected. | | | | | | |
| | 75 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 74 Tetrachloroethene | 164 | 5.409 | 5.409 | (0.876) | 14313 | 2.08048 | 2.08048 | |
| | 76 Ethyl methacrylate | 69 | Compound Not Detected. | | | | | | |

Data File: 2524062766.D Page 3
Report Date: 28-Jun-2024 15:23

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 77 1,1,2-Trichloroethane | 83 | 5.524 | 5.524 | (0.895) | 3312 | 0.57056 | 0.570558(a) | |
| | 78 Chlorodibromomethane | 129 | Compound Not Detected. | | | | | | |
| | 79 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | | |
| | 80 1,2-Dibromoethane | 107 | Compound Not Detected. | | | | | | |
| | 81 2-Hexanone | 43 | Compound Not Detected. | | | | | | |
| | 82 1-Chlorohexane | 91 | Compound Not Detected. | | | | | | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.173 | (1.000) | 376499 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | Compound Not Detected. | | | | | | |
| | 84 Chlorobenzene | 112 | Compound Not Detected. | | | | | | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | | |
| | 87 mp-Xylene | 106 | Compound Not Detected. | | | | | | |
| M | 120 1,3-Dichloropropene, Total | 75 | Compound Not Detected. | | | | | | |
| | 88 o-Xylene | 106 | Compound Not Detected. | | | | | | |
| | 89 Styrene | 104 | Compound Not Detected. | | | | | | |
| | 90 Bromoform | 173 | Compound Not Detected. | | | | | | |
| | 91 Isopropylbenzene | 105 | Compound Not Detected. | | | | | | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 268976 | 29.4454 | 29.4454 | |
| M | 121 TOTAL XYLENES | 106 | Compound Not Detected. | | | | | | |
| | 94 n-Propylbenzene | 120 | Compound Not Detected. | | | | | | |
| | 93 Bromobenzene | 156 | Compound Not Detected. | | | | | | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | | |
| | 97 1,3,5-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 96 o-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 98 1,2,3-Trichloropropane | 110 | Compound Not Detected. | | | | | | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | Compound Not Detected. | | | | | | |
| | 101 p-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 102 tert-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 103 Pentachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 104 1,2,4-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 105 sec-Butylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 106 p-Isopropyltoluene | 134 | Compound Not Detected. | | | | | | |
| | 107 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 330194 | 30.0000 | (Q) | |
| | 109 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 111 n-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 110 Benzyl Chloride | 126 | Compound Not Detected. | | | | | | |
| | 112 Hexachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 113 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | Compound Not Detected. | | | | | | |
| | 115 Nitrobenzene | 77 | Compound Not Detected. | | | | | | |
| | 116 Hexachlorobutadiene | 225 | Compound Not Detected. | | | | | | |
| | 117 1,2,4-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |
| | 118 Naphthalene | 128 | Compound Not Detected. | | | | | | |
| | 119 1,2,3-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.




Data File: \\ALMDTMS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25240627G6.D
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Sample Info: 33660270011;1;;;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25.i
Operator: BST
Column diameter: 0.25
Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062766.D Page 2

Date : 28-JUN-2024 00:56

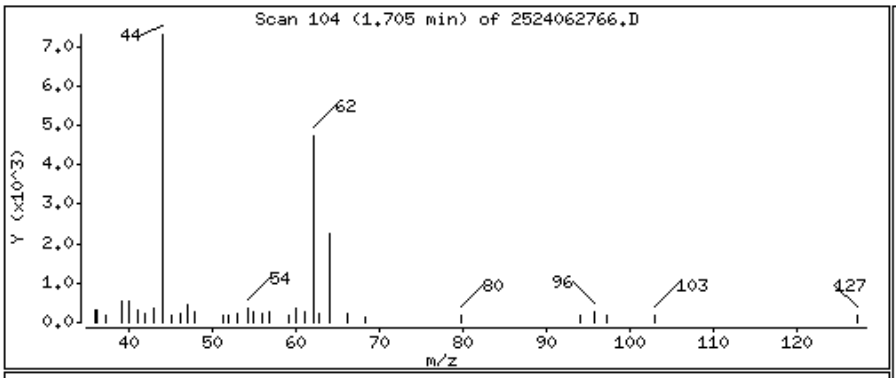
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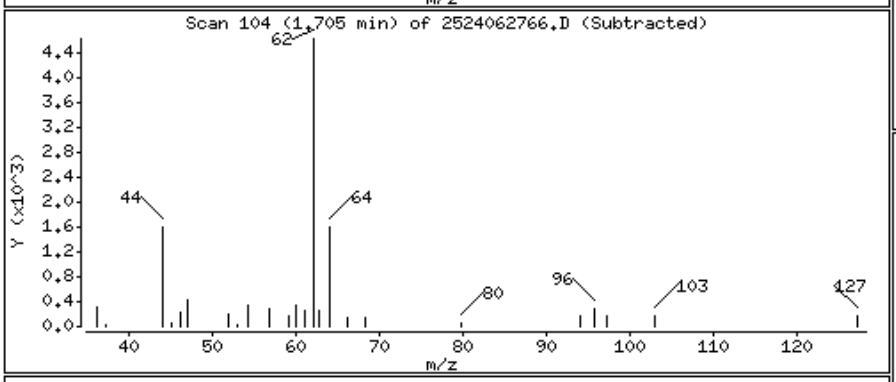
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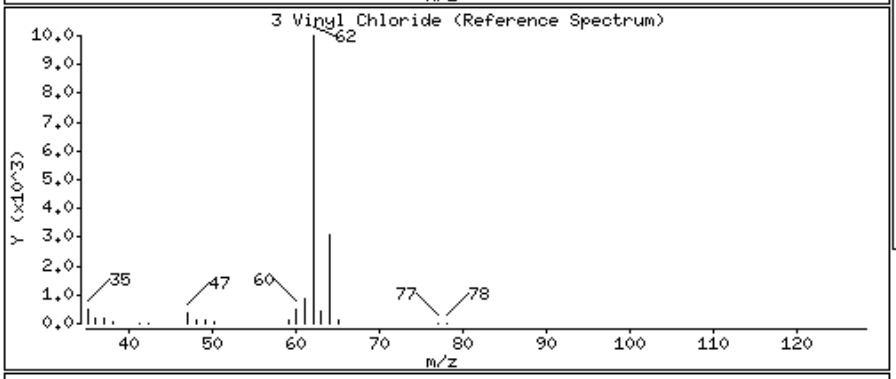
Purge Volume: 5.0 Operator: BST

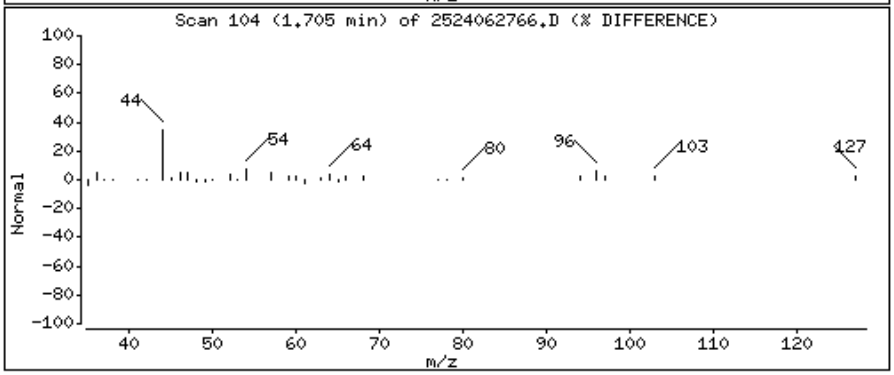
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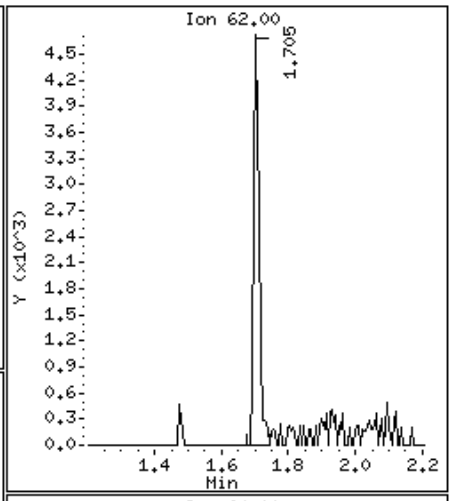
3 Vinyl Chloride Concentration: 0.329190 ug/L

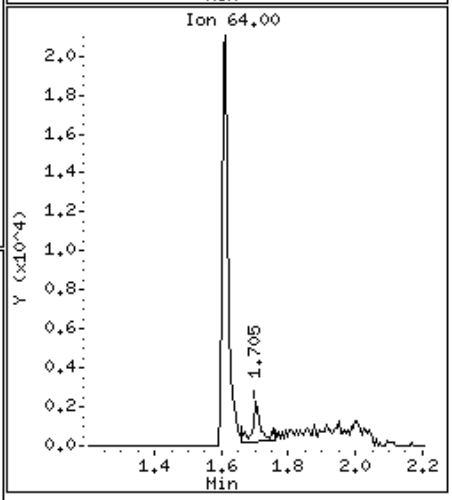


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Date : 28-JUN-2024 00:56

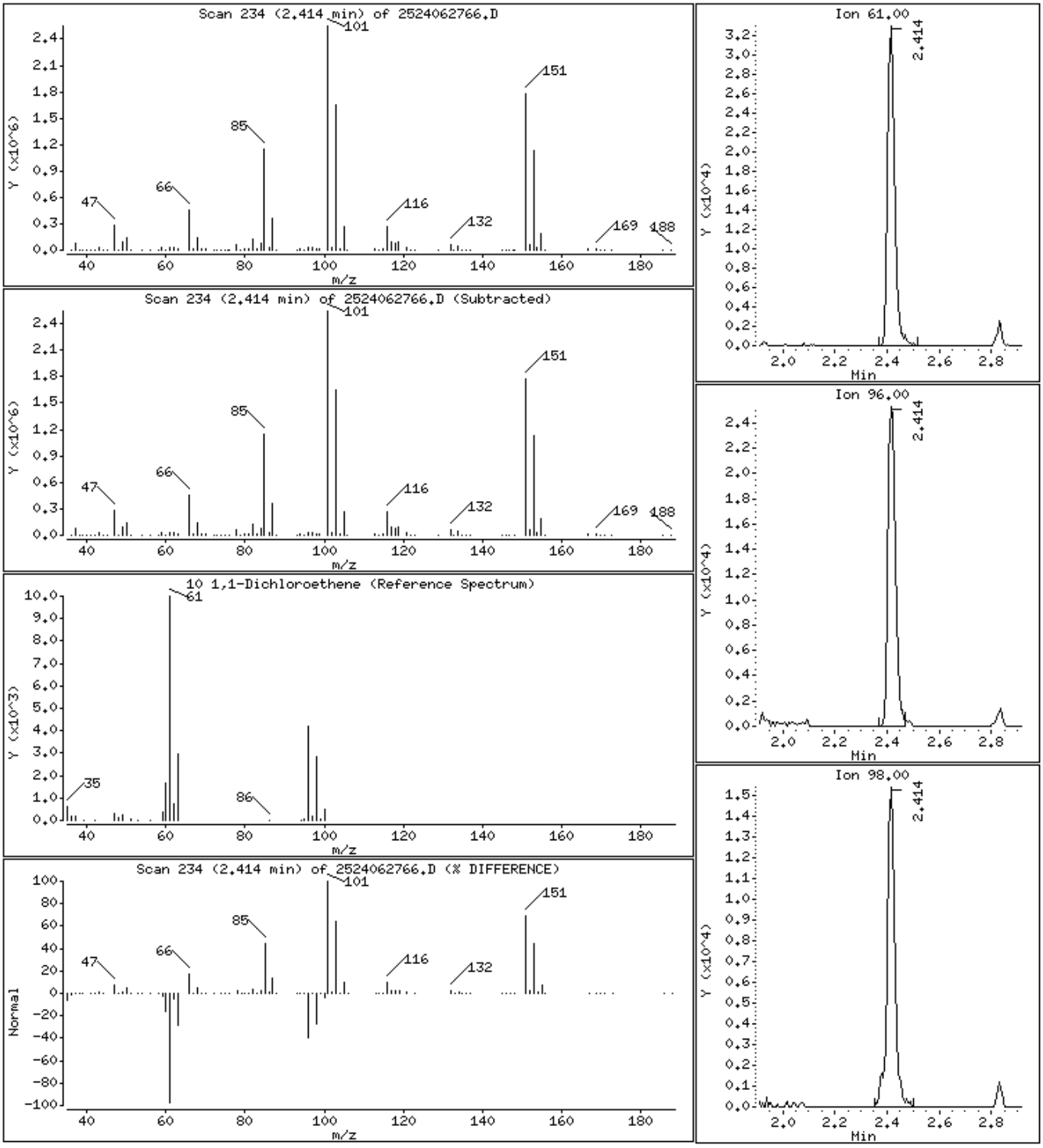
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Sample Info: 3366027001;;1;;;;;

Purge Volume: 5.0 Operator: BST

Column phase: DB-VRX Column diameter: 0.25

10 1,1-Dichloroethene Concentration: 5.43727 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062766.D Page 4

Date : 28-JUN-2024 00:56

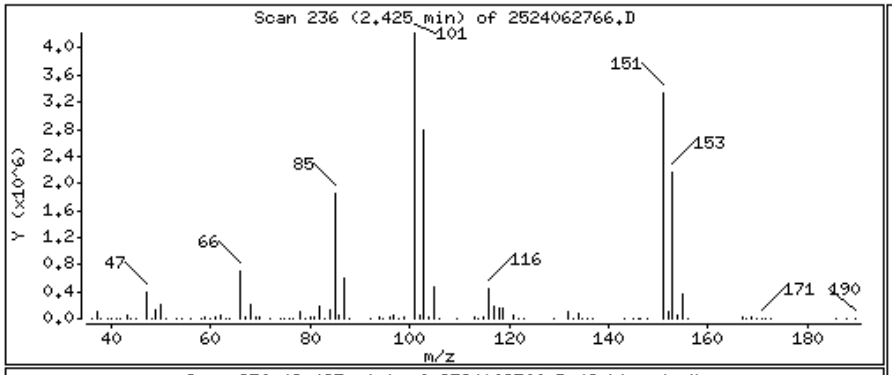
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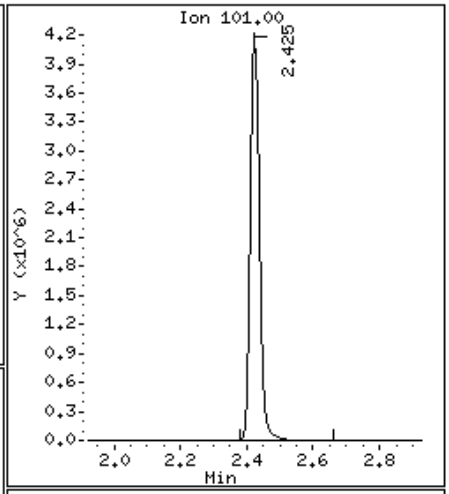
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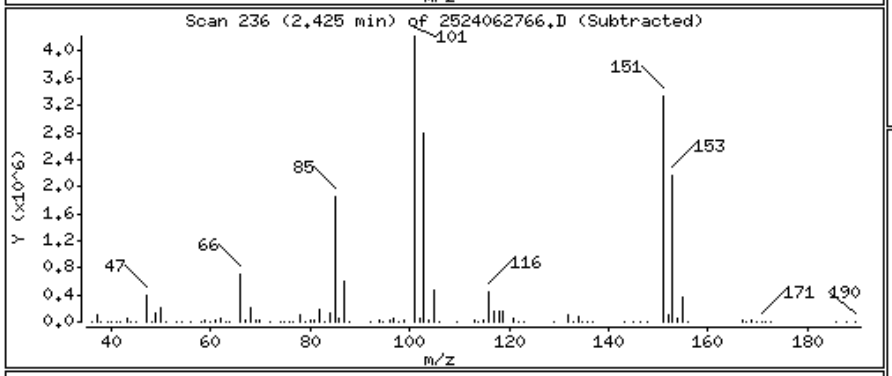
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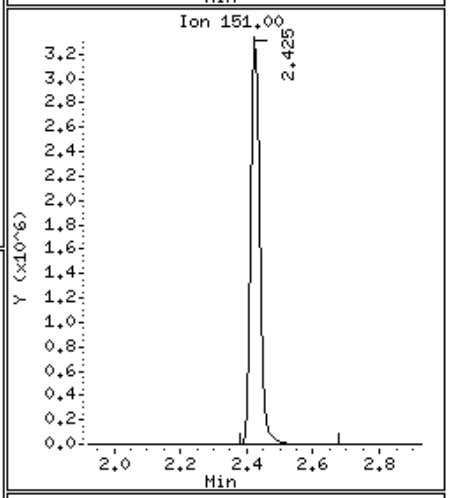
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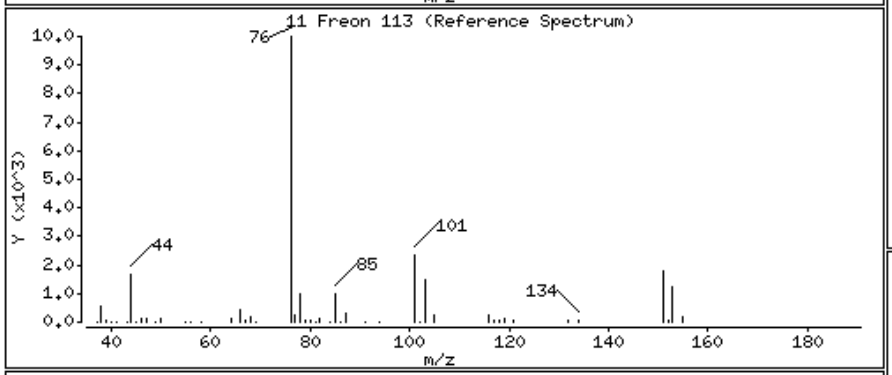
11 Freon 113 Concentration: 1000.67 ug/L

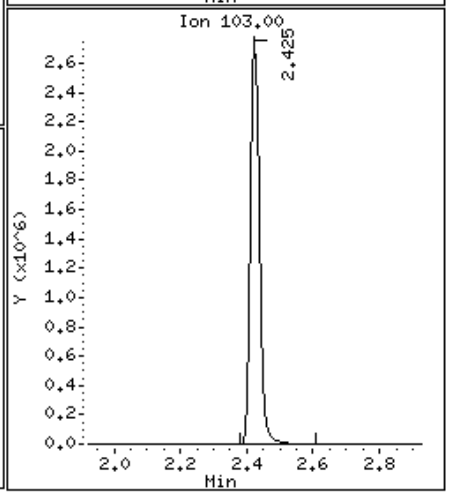


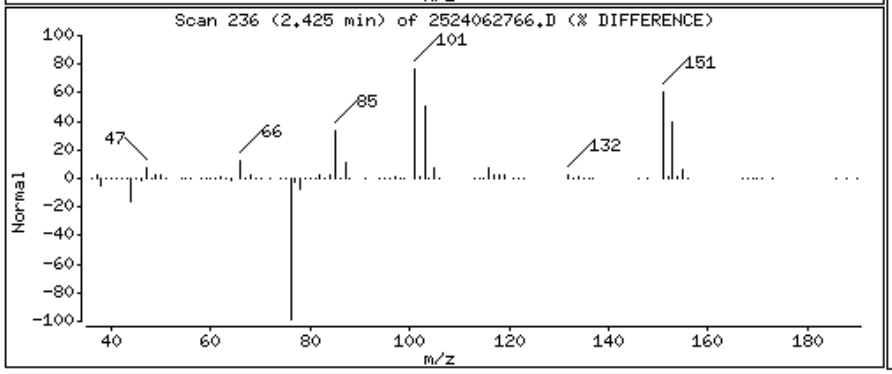



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Date : 28-JUN-2024 00:56

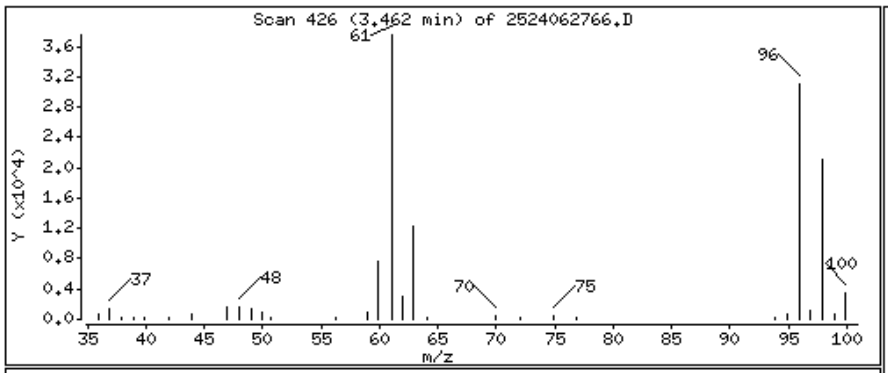
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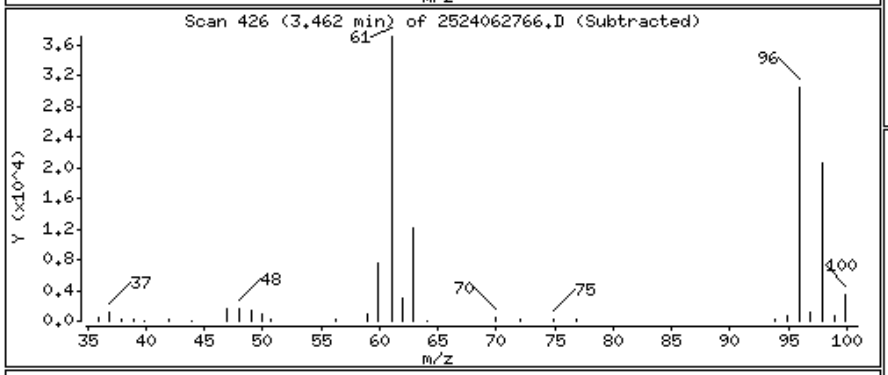
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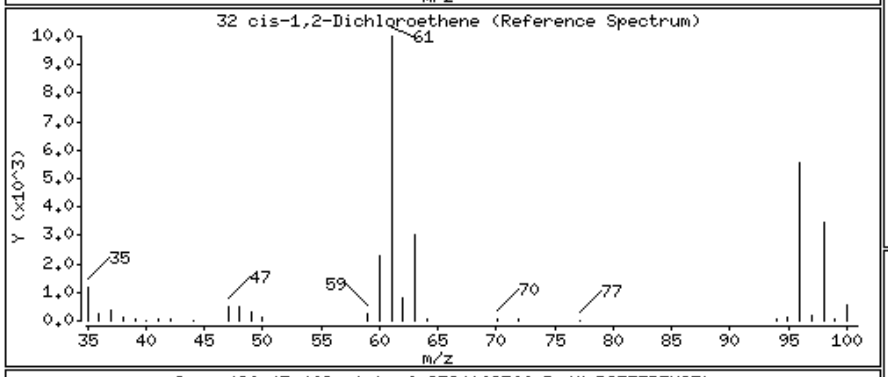
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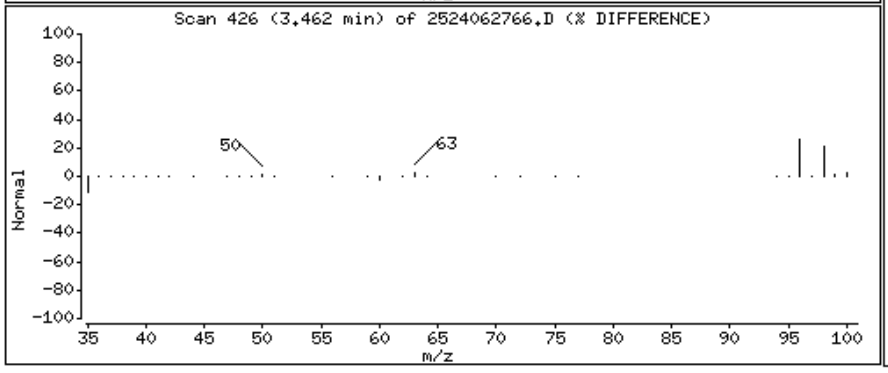
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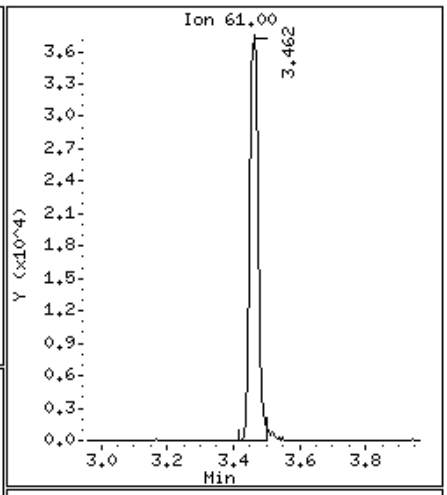
32 cis-1,2-Dichloroethene Concentration: 5.72611 ug/L

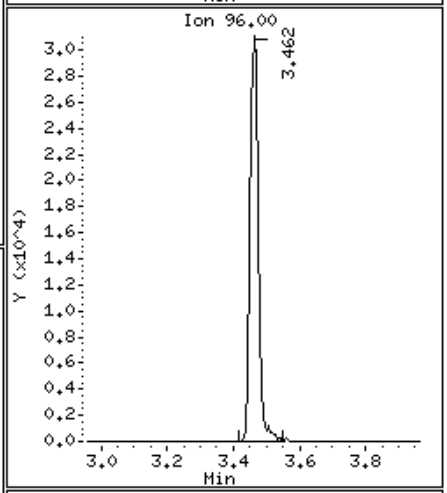


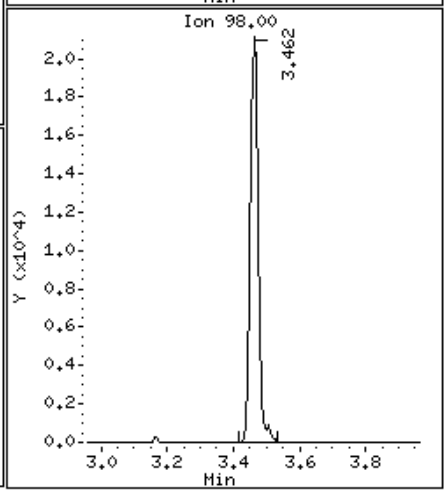



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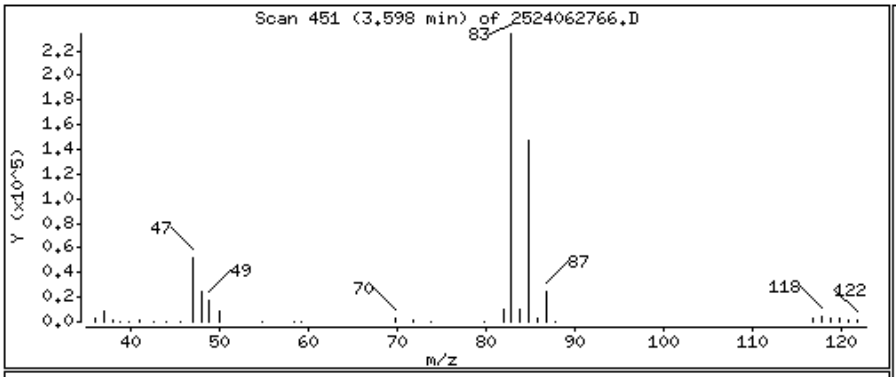
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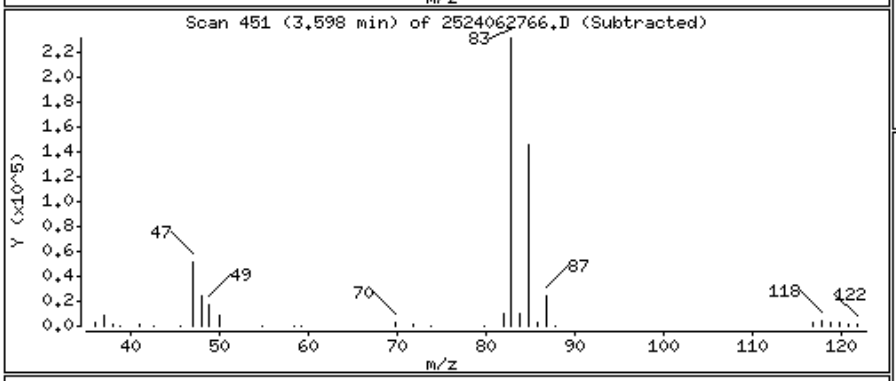
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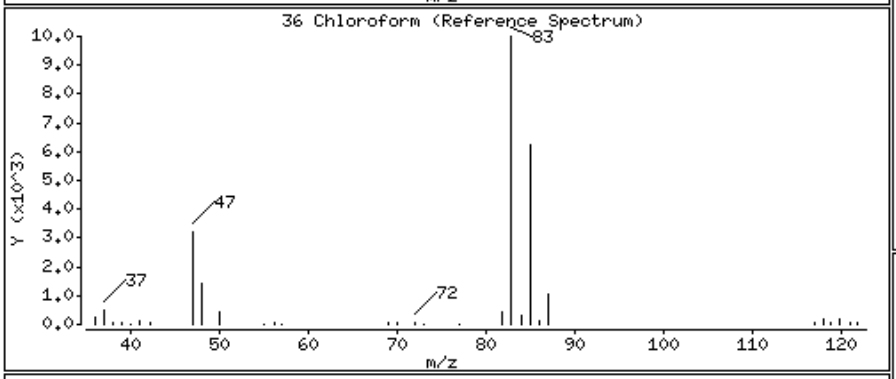
Purge Volume: 5.0 Operator: BST

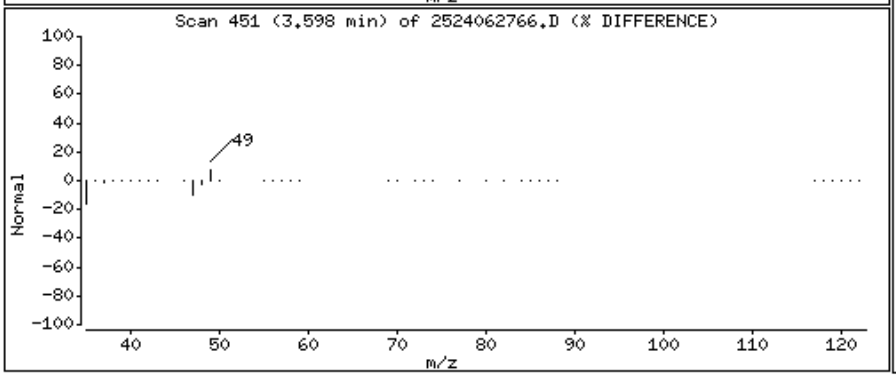
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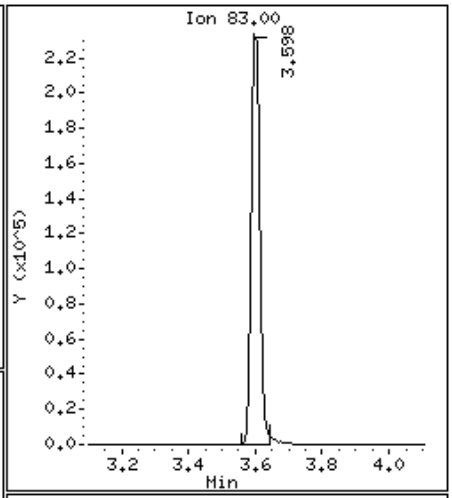
36 Chloroform Concentration: 24.7759 ug/L

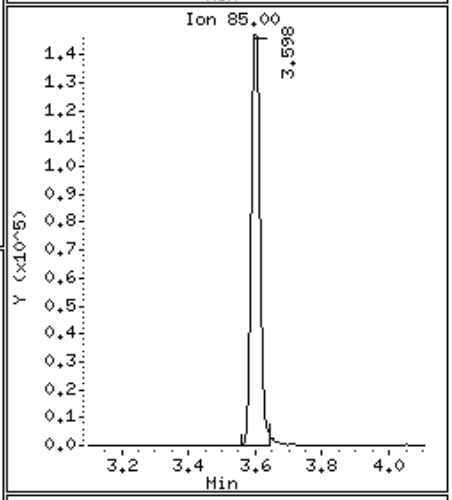


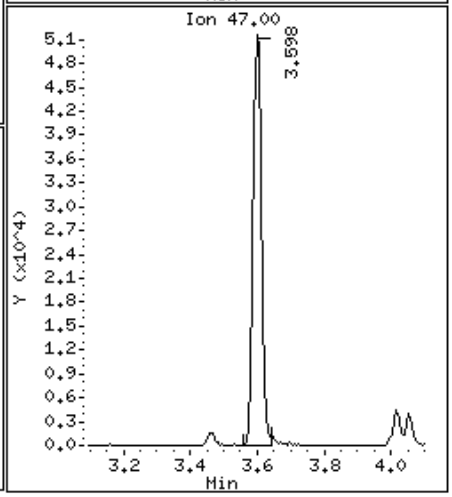



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062766.D Page 7

Date : 28-JUN-2024 00:56

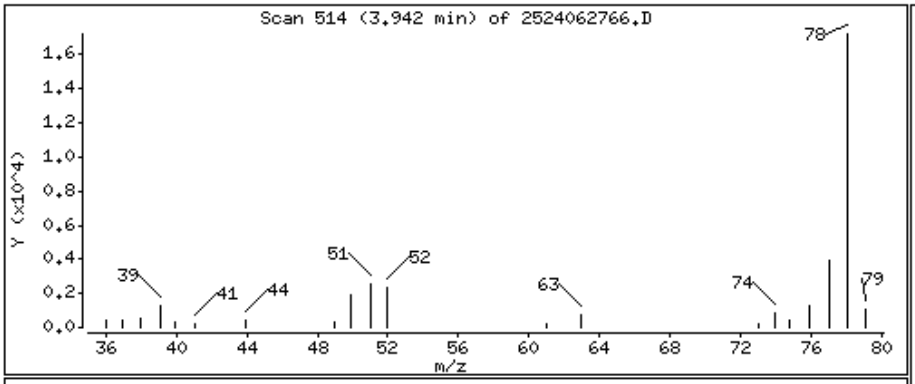
Client ID: HS24061196-01 Instrument: ms25.i

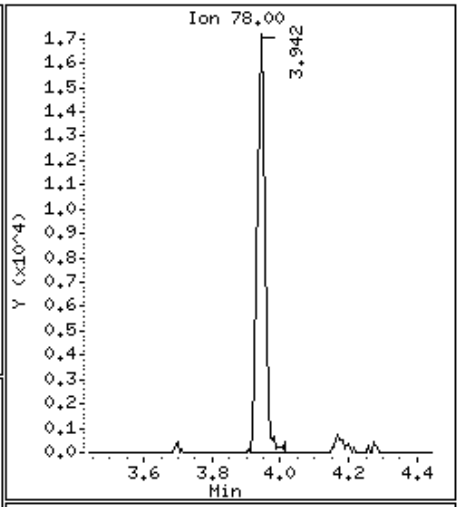
Sample Info: 3366027001;;1;;;;;

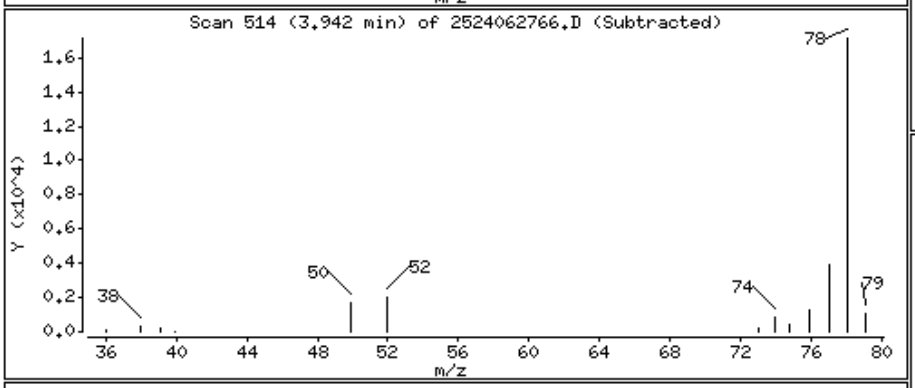
Purge Volume: 5.0 Operator: BST

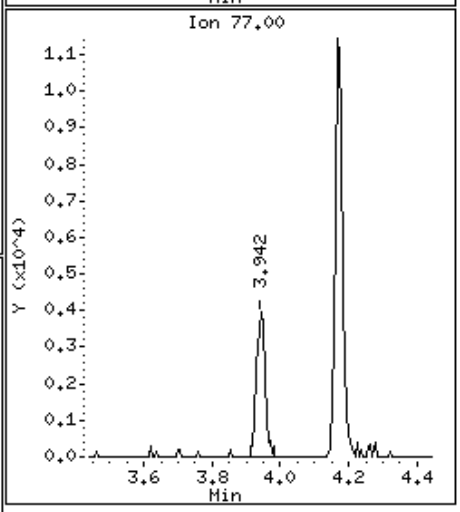
Column phase: DB-VRX Column diameter: 0.25

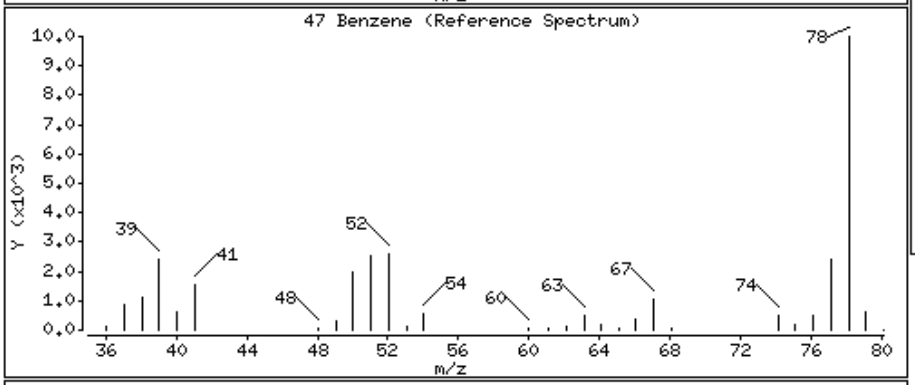
47 Benzene Concentration: 0.724552 ug/L

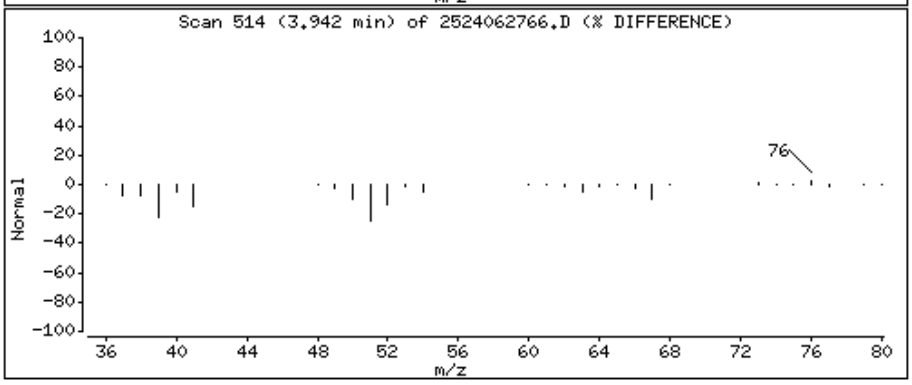


Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062766.D Page 8

Date : 28-JUN-2024 00:56

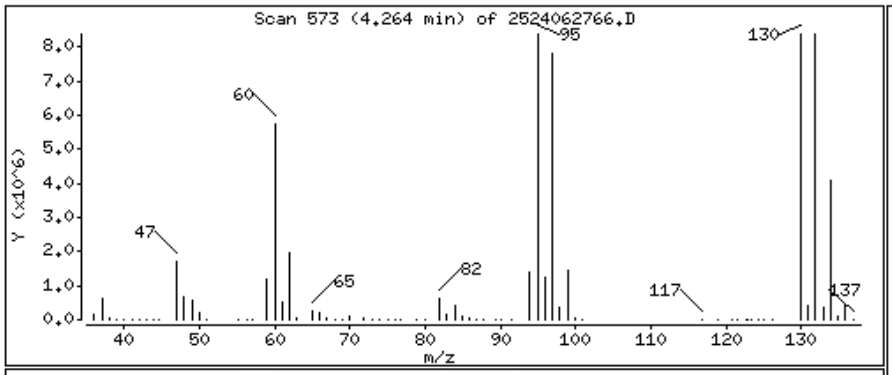
Client ID: HS24061196-01 Instrument: ms25.i

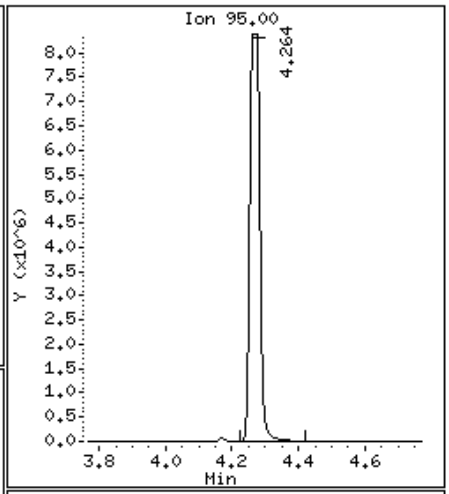
Sample Info: 3366027001;;1;;;;;

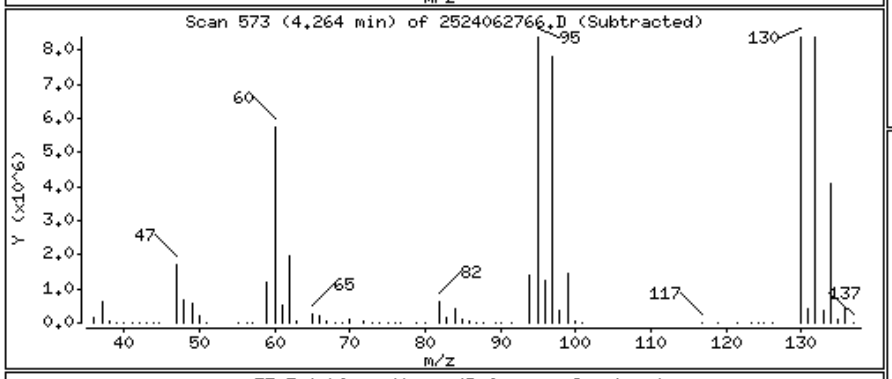
Purge Volume: 5.0 Operator: BST

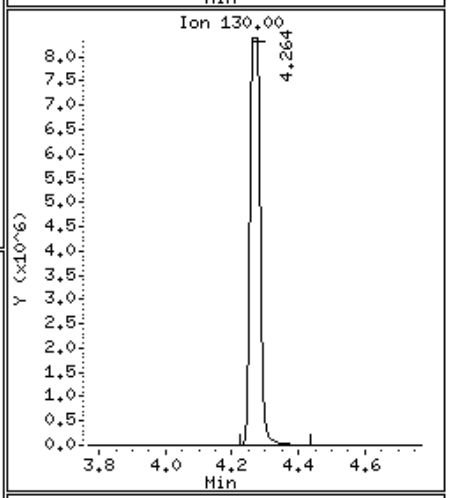
Column phase: DB-VRX Column diameter: 0.25

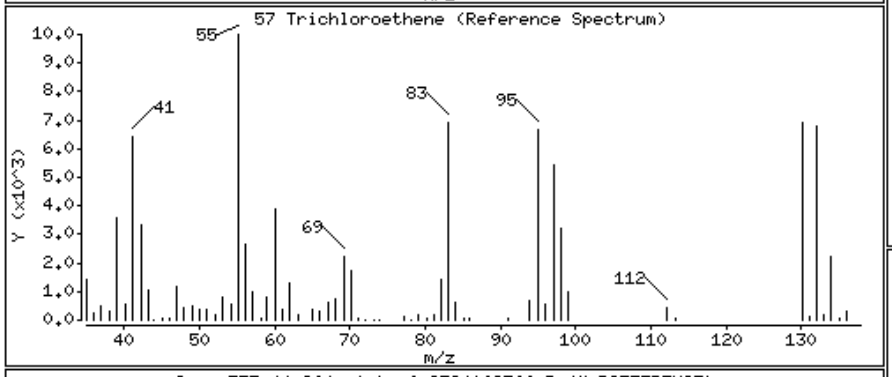
57 Trichloroethene Concentration: 1862.81 ug/L

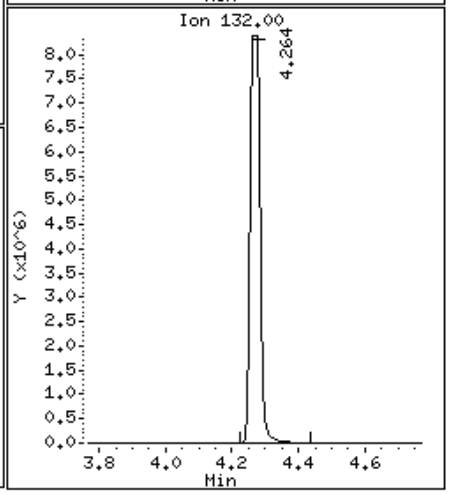


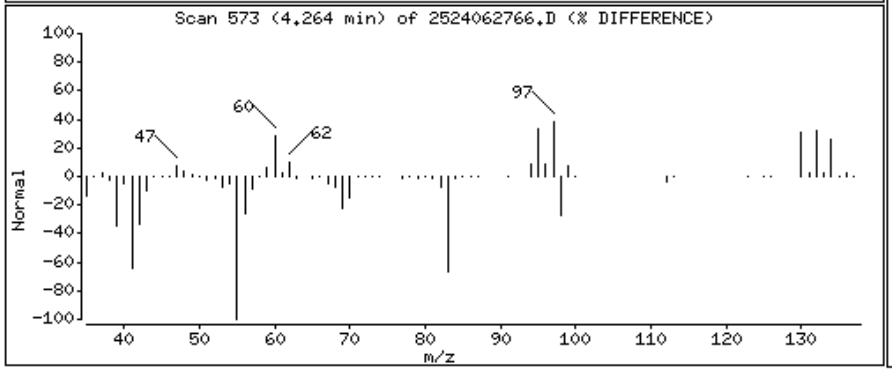



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062766.D Page 9

Date : 28-JUN-2024 00:56

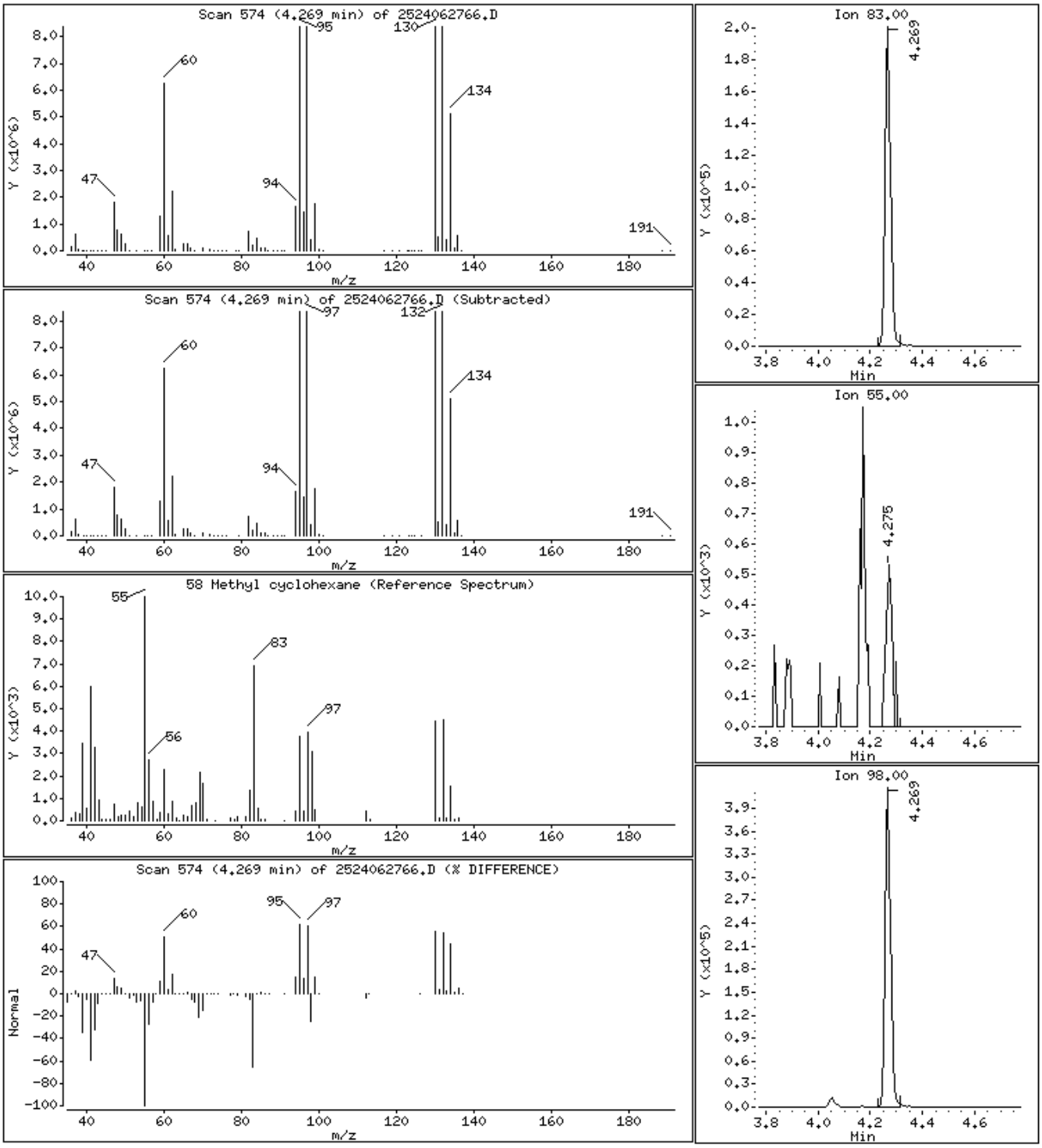
Client ID: HS24061196-01 Instrument: ms25.i

Sample Info: 3366027001;;1;;;;;

Purge Volume: 5.0 Operator: BST

Column phase: DB-VRX Column diameter: 0.25

58 Methyl cyclohexane Concentration: 21.5248 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062766.D Page 10

Date : 28-JUN-2024 00:56

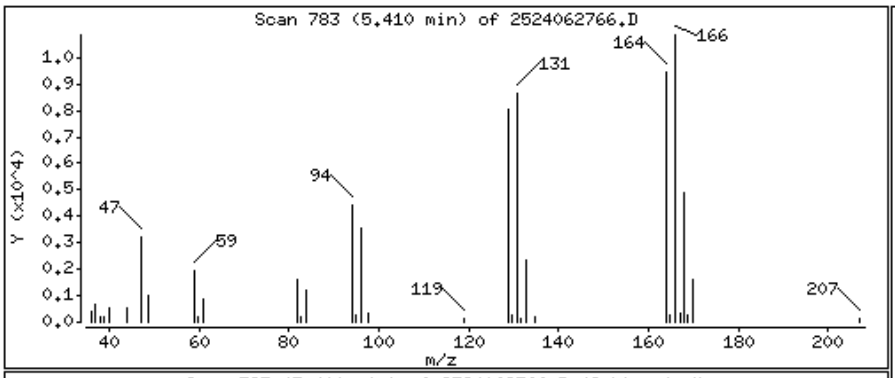
Client ID: HS24061196-01 Instrument: ms25.i

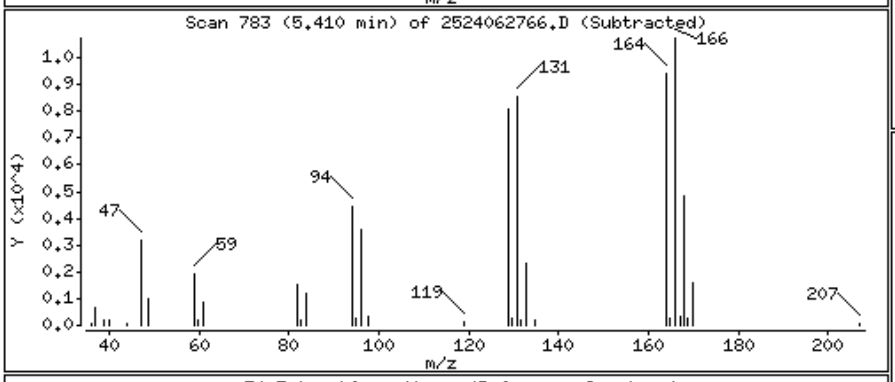
Sample Info: 3366027001;;1;;;;;

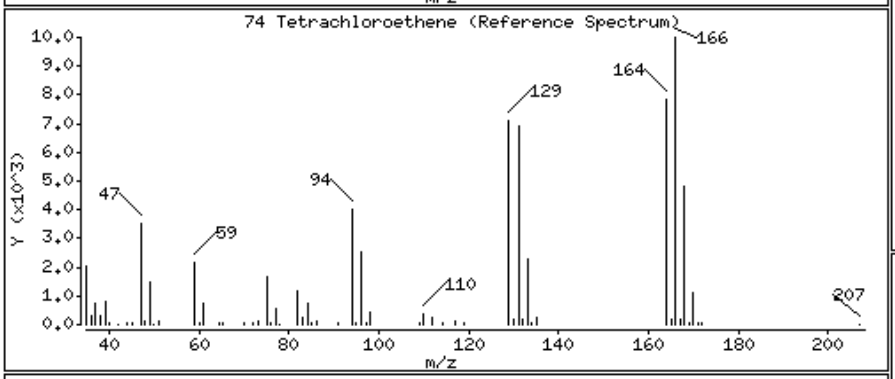
Purge Volume: 5.0 Operator: BST

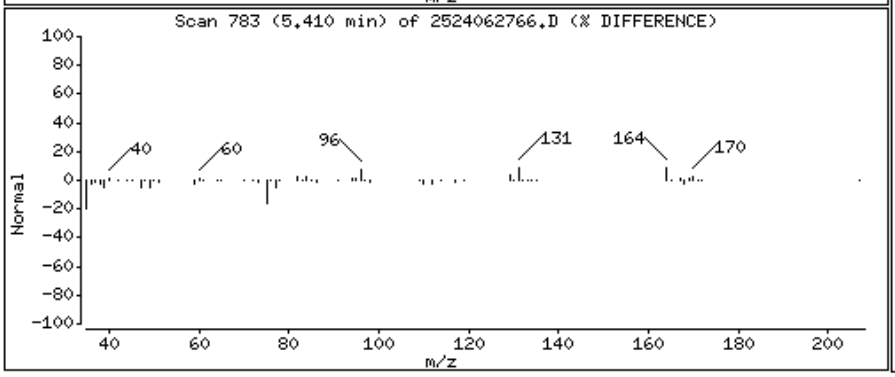
Column phase: DB-VRX Column diameter: 0.25

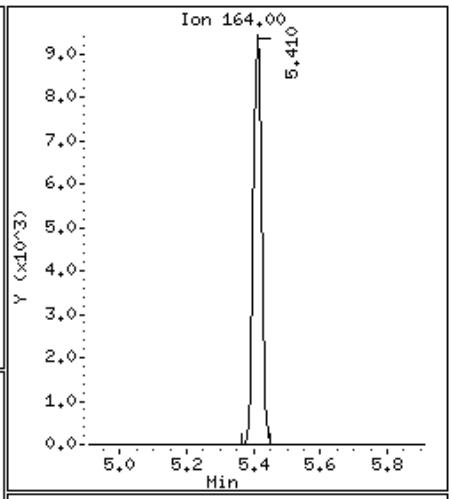
74 Tetrachloroethene Concentration: 2.08048 ug/L

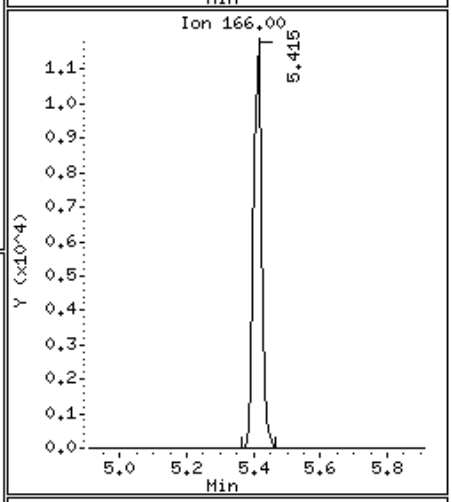


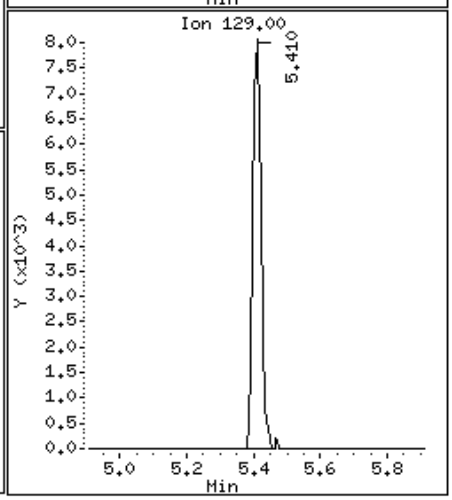



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062766.D Page 11

Date : 28-JUN-2024 00:56

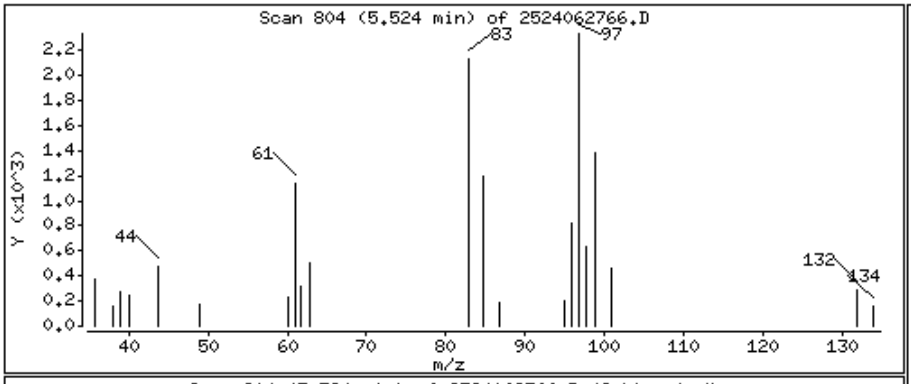
Client ID: HS24061196-01 Instrument: ms25.i

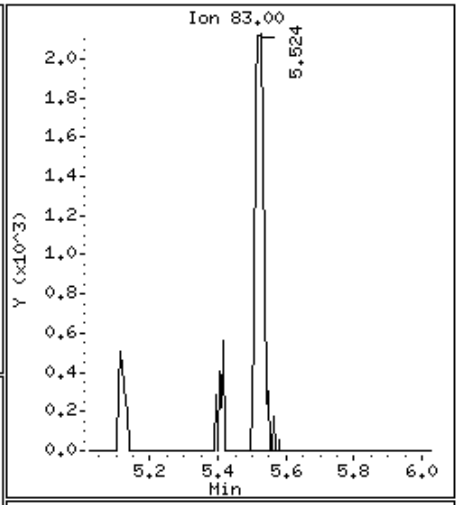
Sample Info: 3366027001;;1;;;;;

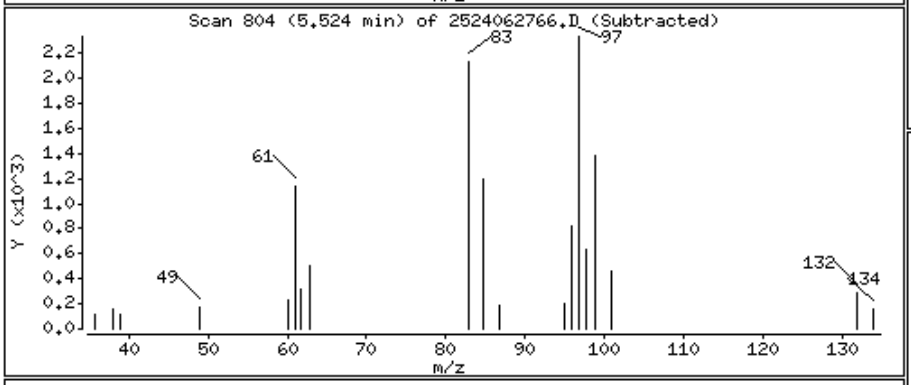
Purge Volume: 5.0 Operator: BST

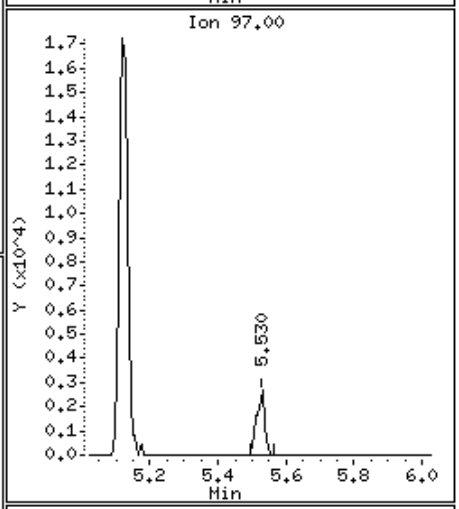
Column phase: DB-VRX Column diameter: 0.25

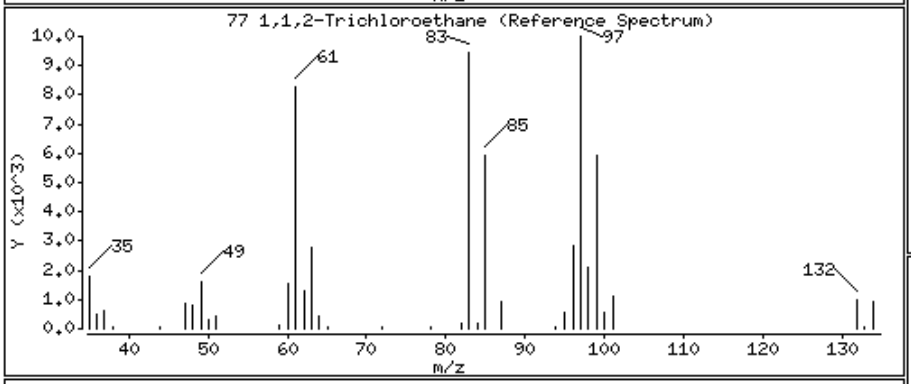
77 1,1,2-Trichloroethane Concentration: 0.570558 ug/L

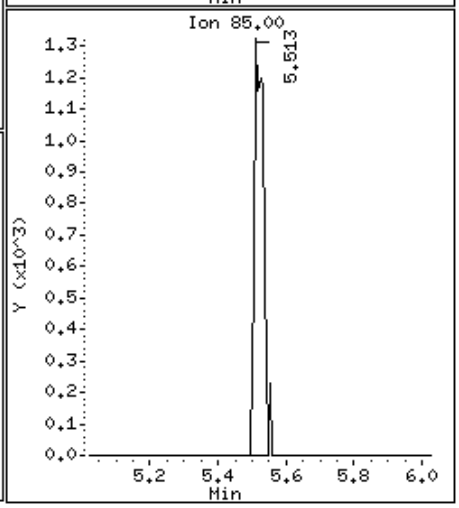


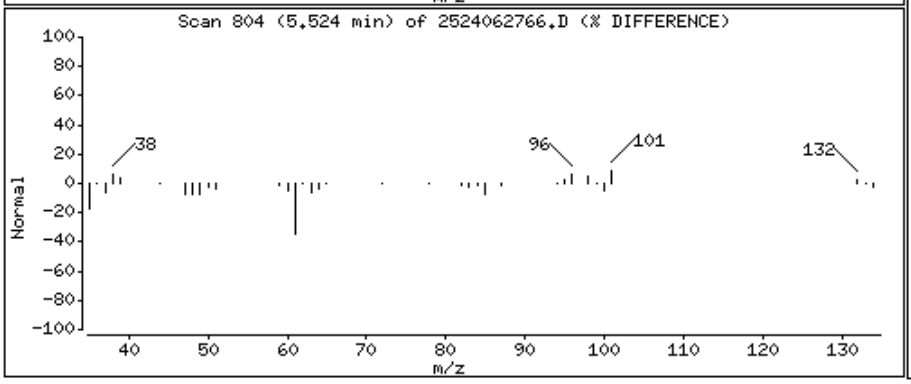



Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062766.D
Inj Date  : 28-JUN-2024 00:56
InstruID  : ms25.i
LabSampID : 3366027001

NO MANUAL INTEGRATIONS

# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:23
Client ID: HS24061196-01
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 28-JUN-2024 00:56
Operator: BST

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetone
Acetonitrile
tert-amyl methyl Ether
tert-Amyl Alcohol
tert-Amyl Ethylether
Bromodichloromethane
tert.- Butyl Alcohol
Carbon Tetrachloride
3-Chloro-1-propene
trans-1,2-Dichloroethene
Dichlorofluoromethane
Ethyl Ether
Ethyl methacrylate
Heptane
Isobutyl alcohol
Methacrylonitrile
Methyl acetate
Methylene Chloride
2-Nitropropane
Trichlorofluoromethane
Vinyl acetate

Data File: 2524062768.D Page 1
Report Date: 28-Jun-2024 15:25

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062768.D
Lab Smp Id: 3366027003 Client Smp ID: HS24061196-03
Inj Date : 28-JUN-2024 01:37
Operator : BST Inst ID: ms25.i
Smp Info : 3366027003;;1;;;;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | | |
| 2 Chloromethane | 50 | 1.644 | 1.644 | (0.394) | 4587 | 0.34209 | 0.342090(a) | |
| 3 Vinyl Chloride | 62 | Compound Not Detected. | | | | | | |
| 4 Bromomethane | 94 | Compound Not Detected. | | | | | | |
| 5 Chloroethane | 64 | Compound Not Detected. | | | | | | |
| 6 Pentane | 41 | Compound Not Detected. | | | | | | |
| 7 Trichlorofluoromethane | 101 | Compound Not Detected. | | | | | | |
| 8 Dichlorofluoromethane | 67 | Compound Not Detected. | | | | | | |
| 9 Ethyl Ether | 74 | Compound Not Detected. | | | | | | |
| 10 1,1-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 12 Carbon Disulfide | 76 | Compound Not Detected. | | | | | | |
| 11 Freon 113 | 101 | 2.424 | 2.424 | (0.581) | 5710 | 0.81349 | 0.813491(a) | |
| 13 Iodomethane | 127 | Compound Not Detected. | | | | | | |
| 14 Acrolein | 56 | Compound Not Detected. | | | | | | |
| 16 3-Chloro-1-propene | 41 | Compound Not Detected. | | | | | | |
| 15 Isopropyl Alcohol | 45 | Compound Not Detected. | | | | | | |
| 17 Methylene Chloride | 84 | Compound Not Detected. | | | | | | |
| 18 Acetone | 58 | Compound Not Detected. | | | | | | |
| 19 Methyl acetate | 74 | Compound Not Detected. | | | | | | |
| 20 trans-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 21 Hexane | 57 | Compound Not Detected. | | | | | | |

Data File: 2524062768.D Page 2
Report Date: 28-Jun-2024 15:25

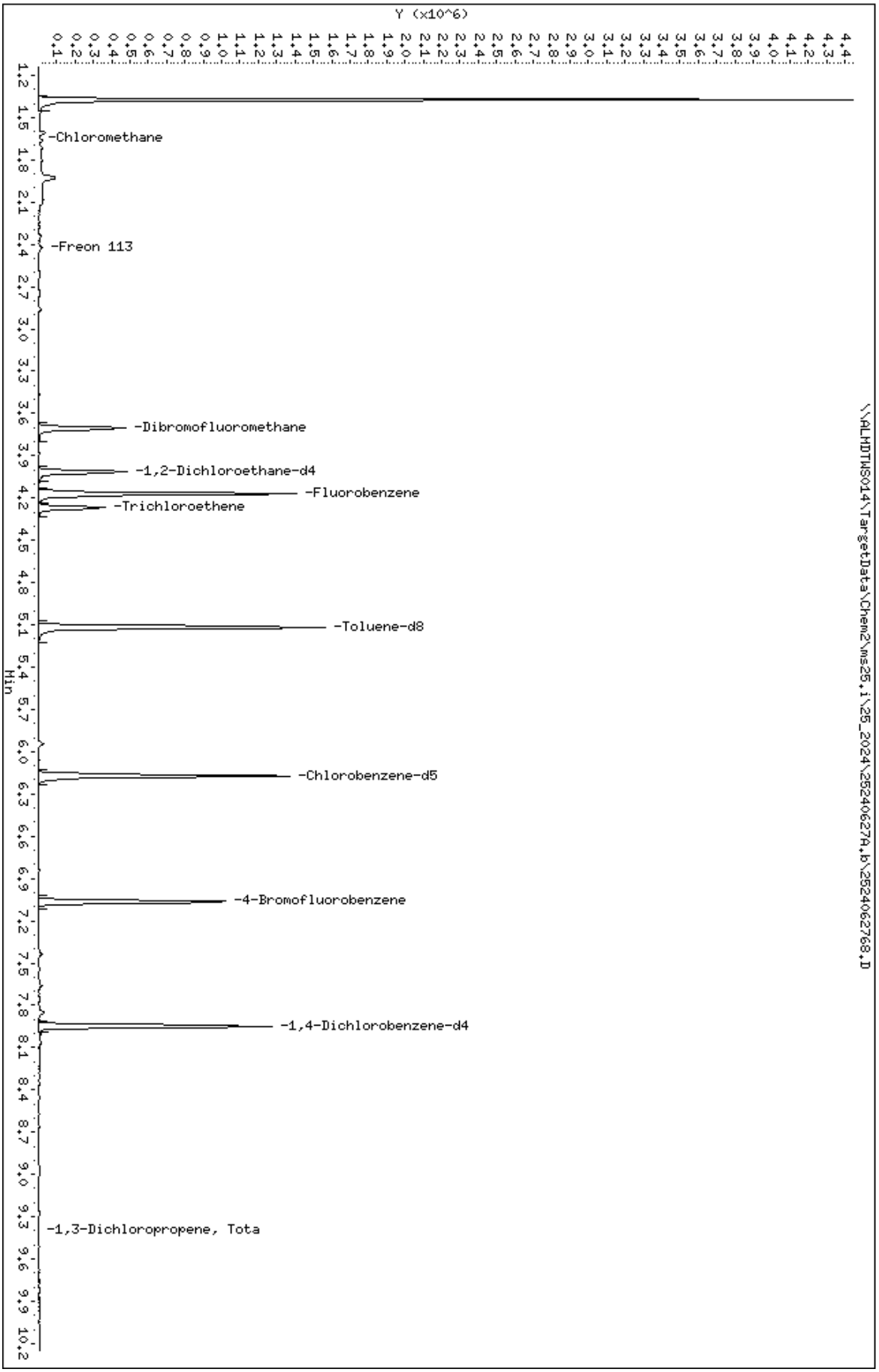
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | Compound Not Detected. | | | | | | |
| | 23 tert.- Butyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| | 24 Acetonitrile | 41 | Compound Not Detected. | | | | | | |
| | 25 Diisopropyl ether | 45 | Compound Not Detected. | | | | | | |
| | 26 Chloroprene | 53 | Compound Not Detected. | | | | | | |
| | 27 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | | |
| | 28 Acrylonitrile | 53 | Compound Not Detected. | | | | | | |
| | 30 n-Propanol | 41 | Compound Not Detected. | | | | | | |
| | 29 Ethyl tert-butyl ether | 59 | Compound Not Detected. | | | | | | |
| | 31 Vinyl acetate | 86 | Compound Not Detected. | | | | | | |
| | 32 cis-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| | 33 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | | |
| M | 100 1,2-Dichloroethene, Total | 61 | Compound Not Detected. | | | | | | |
| | 34 Bromochloromethane | 128 | Compound Not Detected. | | | | | | |
| | 35 Cyclohexane | 84 | Compound Not Detected. | | | | | | |
| | 36 Chloroform | 83 | Compound Not Detected. | | | | | | |
| | 37 Ethyl acetate | 43 | Compound Not Detected. | | | | | | |
| | 38 Methyl acrylate | 55 | Compound Not Detected. | | | | | | |
| | 39 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | | |
| | 40 Tetrahydrofuran | 42 | Compound Not Detected. | | | | | | |
| $ | 41 Dibromofluoromethane | 113 | 3.707 | 3.707 | (0.889) | 226713 | 27.6982 | 27.6982 | |
| | 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | | |
| | 43 2-Butanone | 72 | Compound Not Detected. | | | | | | |
| | 44 1,1-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 45 1-Chlorobutane | 41 | Compound Not Detected. | | | | | | |
| | 46 Heptane | 71 | Compound Not Detected. | | | | | | |
| | 48 Propionitrile | 54 | Compound Not Detected. | | | | | | |
| | 47 Benzene | 78 | Compound Not Detected. | | | | | | |
| | 49 Methacrylonitrile | 67 | Compound Not Detected. | | | | | | |
| | 50 tert-amyl methyl Ether | 73 | Compound Not Detected. | | | | | | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.012 | 4.012 | (0.962) | 266584 | 30.8963 | 30.8963 | |
| | 54 Isobutyl alcohol | 42 | Compound Not Detected. | | | | | | |
| | 52 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | | |
| | 53 tert-Amyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| * | 55 Fluorobenzene | 96 | 4.171 | 4.171 | (1.000) | 1037361 | 30.0000 | | |
| | 56 Diisobutylene | 57 | Compound Not Detected. | | | | | | |
| | 57 Trichloroethene | 95 | 4.269 | 4.269 | (1.024) | 92121 | 11.1889 | 11.1889 | |
| | 58 Methyl cyclohexane | 83 | Compound Not Detected. | | | | | | |
| | 59 tert-Amyl Ethylether | 59 | Compound Not Detected. | | | | | | |
| | 60 Dibromomethane | 93 | Compound Not Detected. | | | | | | |
| | 61 1,2-Dichloropropane | 63 | Compound Not Detected. | | | | | | |
| | 62 Bromodichloromethane | 83 | Compound Not Detected. | | | | | | |
| | 63 Methyl methacrylate | 41 | Compound Not Detected. | | | | | | |
| | 65 2-Chloroethylvinyl ether | 63 | Compound Not Detected. | | | | | | |
| | 66 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 67 Octane | 85 | Compound Not Detected. | | | | | | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 908044 | 30.8940 | 30.8940 | |
| | 69 Toluene | 92 | Compound Not Detected. | | | | | | |
| | 70 Chloroacetonitrile | 75 | Compound Not Detected. | | | | | | |
| | 71 2-Nitropropane | 41 | Compound Not Detected. | | | | | | |
| | 72 1,1-Dichloro-2-propanone | 63 | Compound Not Detected. | | | | | | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | Compound Not Detected. | | | | | | |
| | 75 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 74 Tetrachloroethene | 164 | Compound Not Detected. | | | | | | |

Data File: 2524062768.D Page 3
Report Date: 28-Jun-2024 15:25

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl methacrylate | 69 | Compound Not Detected. | | | | | | |
| | 77 1,1,2-Trichloroethane | 83 | Compound Not Detected. | | | | | | |
| | 78 Chlorodibromomethane | 129 | Compound Not Detected. | | | | | | |
| | 79 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | | |
| | 80 1,2-Dibromoethane | 107 | Compound Not Detected. | | | | | | |
| | 81 2-Hexanone | 43 | Compound Not Detected. | | | | | | |
| | 82 1-Chlorohexane | 91 | Compound Not Detected. | | | | | | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.173 | (1.000) | 371242 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | Compound Not Detected. | | | | | | |
| | 84 Chlorobenzene | 112 | Compound Not Detected. | | | | | | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | | |
| | 87 mp-Xylene | 106 | Compound Not Detected. | | | | | | |
| M | 120 1,3-Dichloropropene, Total | 75 | Compound Not Detected. | | | | | | |
| | 88 o-Xylene | 106 | Compound Not Detected. | | | | | | |
| | 89 Styrene | 104 | Compound Not Detected. | | | | | | |
| | 90 Bromoform | 173 | Compound Not Detected. | | | | | | |
| | 91 Isopropylbenzene | 105 | Compound Not Detected. | | | | | | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 263161 | 30.5042 | 30.5042 | |
| M | 121 TOTAL XYLENES | 106 | Compound Not Detected. | | | | | | |
| | 94 n-Propylbenzene | 120 | Compound Not Detected. | | | | | | |
| | 93 Bromobenzene | 156 | Compound Not Detected. | | | | | | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | | |
| | 97 1,3,5-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 96 o-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 98 1,2,3-Trichloropropane | 110 | Compound Not Detected. | | | | | | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | Compound Not Detected. | | | | | | |
| | 101 p-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 102 tert-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 103 Pentachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 104 1,2,4-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 105 sec-Butylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 106 p-Isopropyltoluene | 134 | Compound Not Detected. | | | | | | |
| | 107 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 311842 | 30.0000 | | (Q) |
| | 109 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 111 n-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 110 Benzyl Chloride | 126 | Compound Not Detected. | | | | | | |
| | 112 Hexachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 113 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | Compound Not Detected. | | | | | | |
| | 115 Nitrobenzene | 77 | Compound Not Detected. | | | | | | |
| | 116 Hexachlorobutadiene | 225 | Compound Not Detected. | | | | | | |
| | 117 1,2,4-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |
| | 118 Naphthalene | 128 | Compound Not Detected. | | | | | | |
| | 119 1,2,3-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.




Data File: \\ALMDTWS014\TargetData\Chem2\ms25,i\25_2024\25240627A,b\25240627&8,D
Date : 28-JUN-2024 01:37
Client ID: HS24061196-03
Sample Info: 3366027003;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25,i
Operator: BST
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062768.D Page 2

Date : 28-JUN-2024 01:37

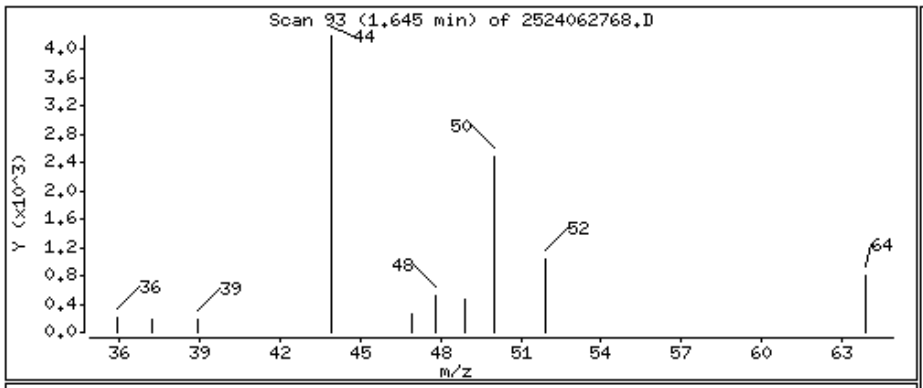
Client ID: HS24061196-03 Instrument: ms25.i

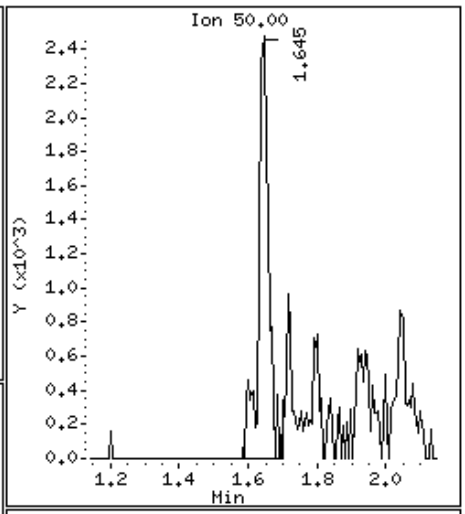
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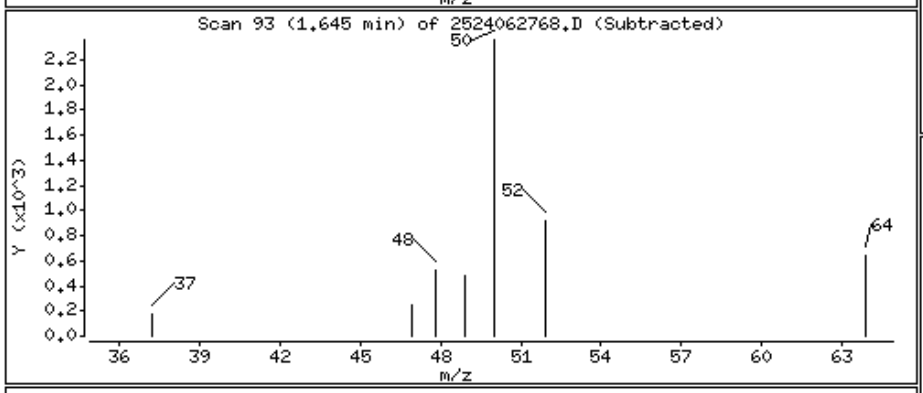
Purge Volume: 5.0 Operator: BST

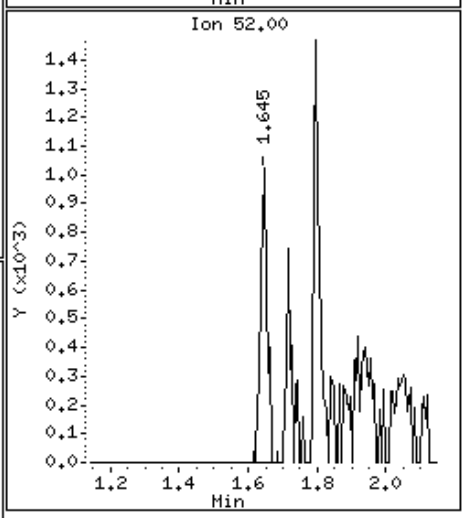
Column phase: DB-VRX Column diameter: 0.25

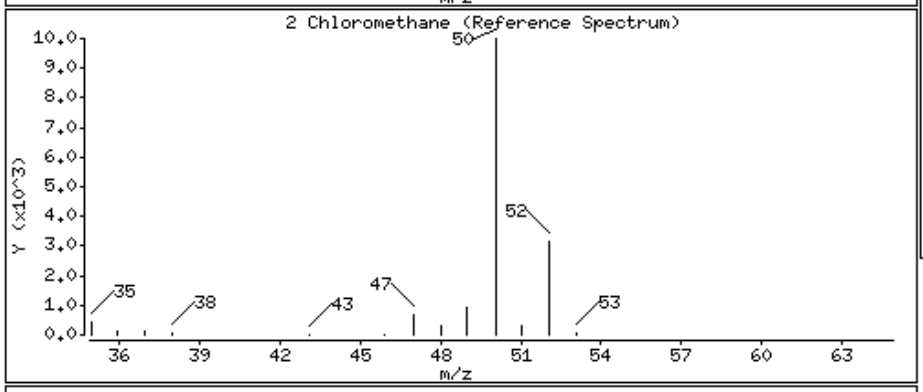
2 Chloromethane Concentration: 0.342090 ug/L

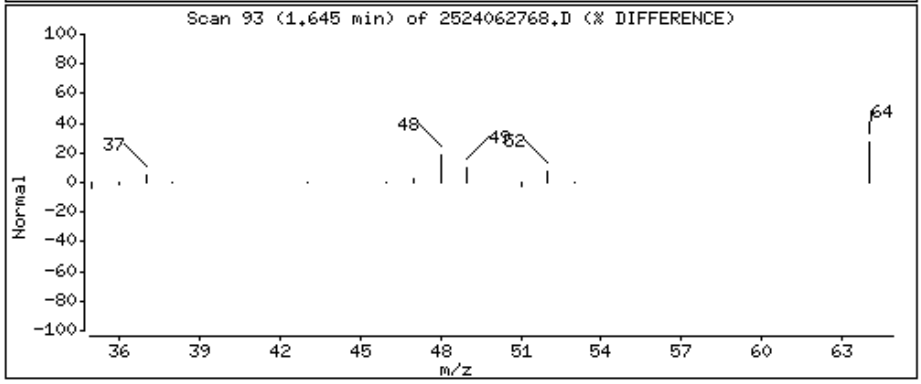


Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062768.D Page 3

Date : 28-JUN-2024 01:37

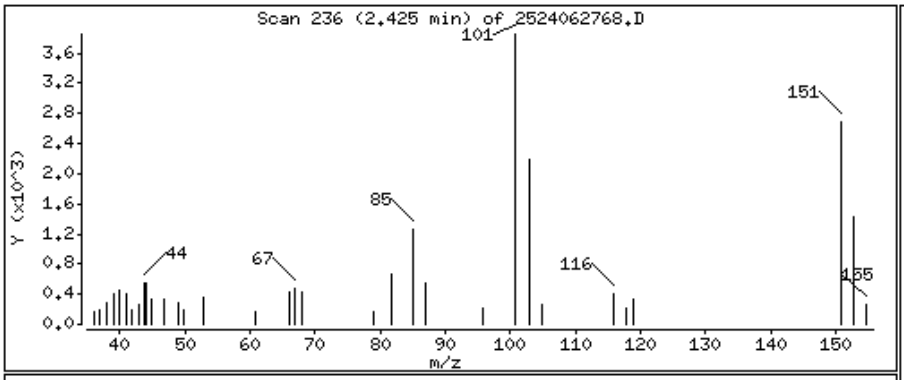
Client ID: HS24061196-03 Instrument: ms25.i

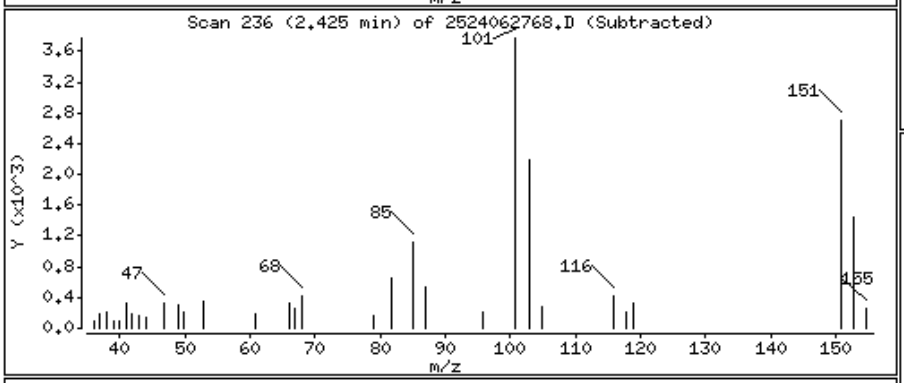
Sample Info: 3366027003;;1;;;;;

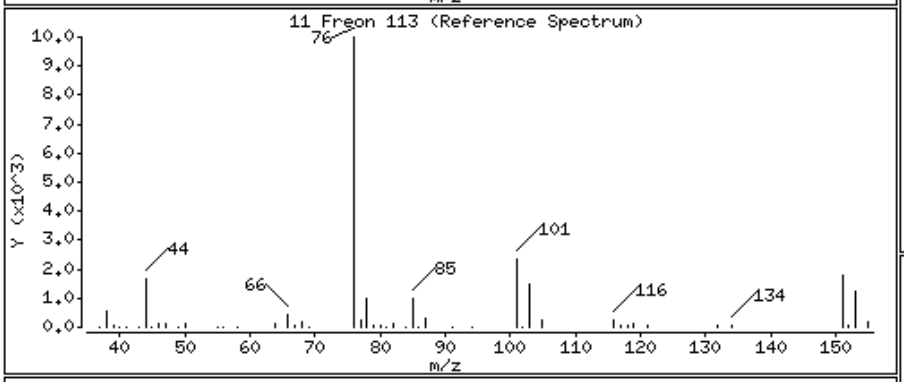
Purge Volume: 5.0 Operator: BST

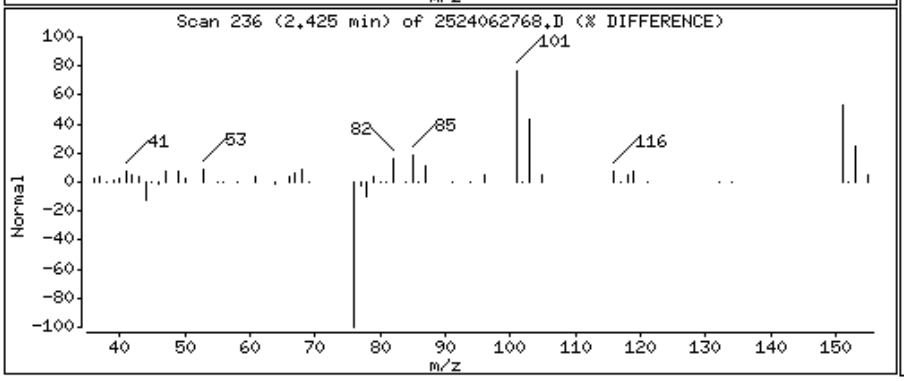
Column phase: DB-VRX Column diameter: 0.25

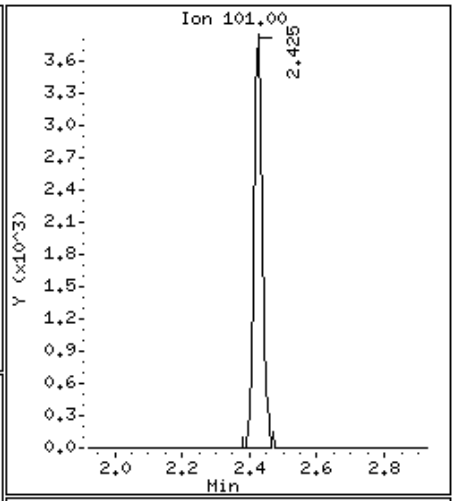
11 Freon 113 Concentration: 0.813491 ug/L

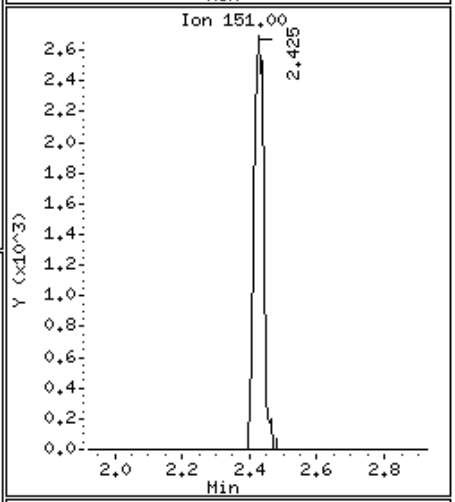


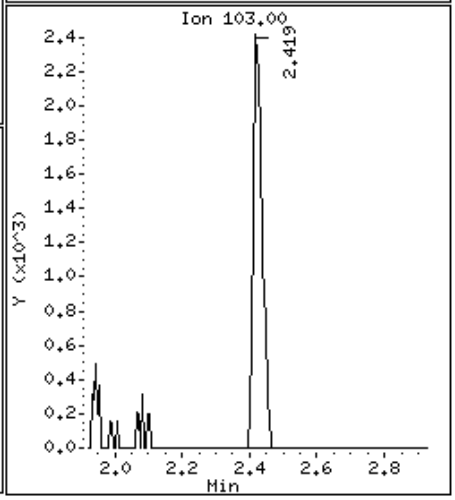



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062768.D Page 4

Date : 28-JUN-2024 01:37

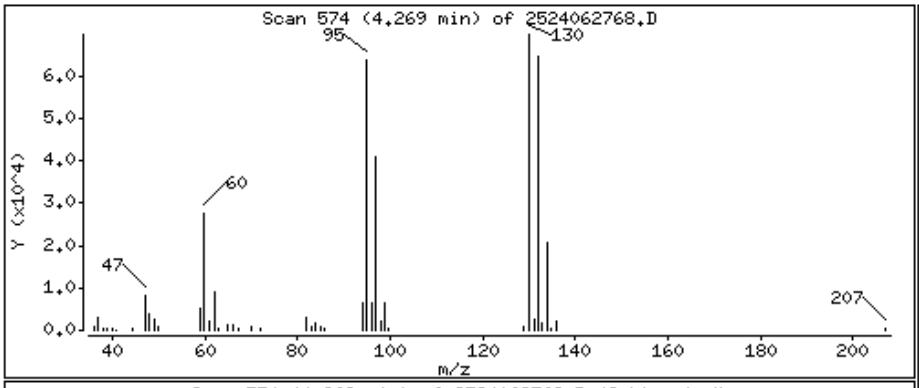
Client ID: HS24061196-03 Instrument: ms25.i

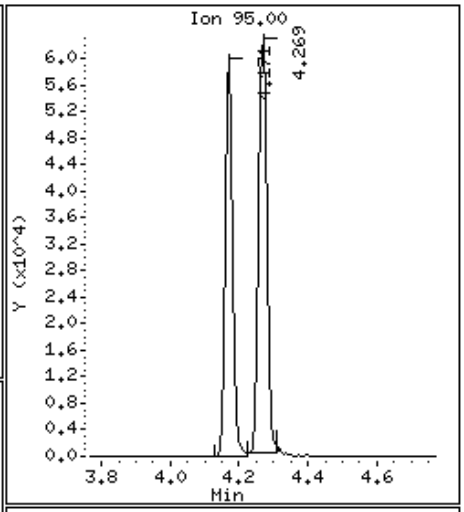
Sample Info: 3366027003;;1;;;;;

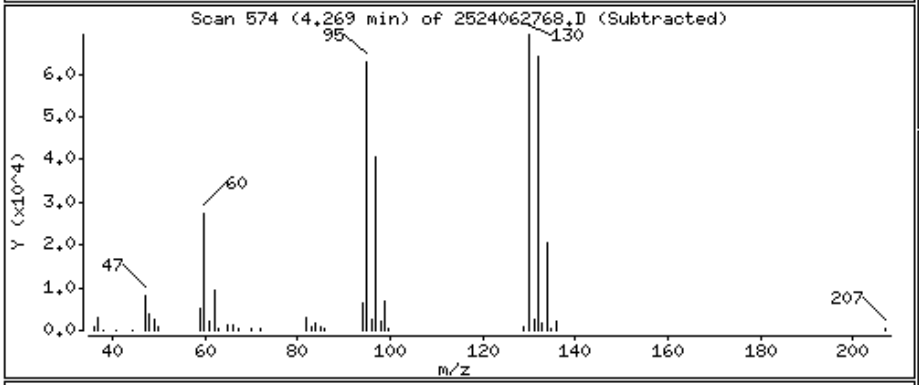
Purge Volume: 5.0 Operator: BST

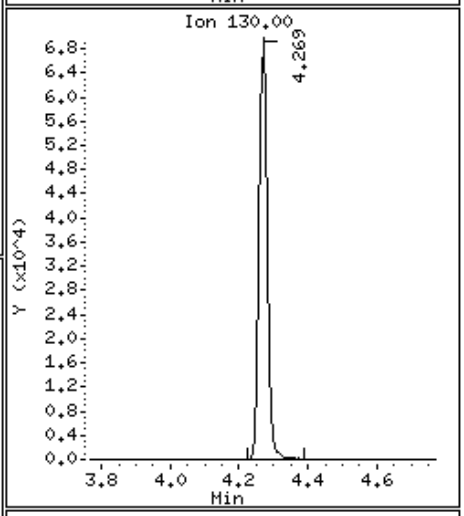
Column phase: DB-VRX Column diameter: 0.25

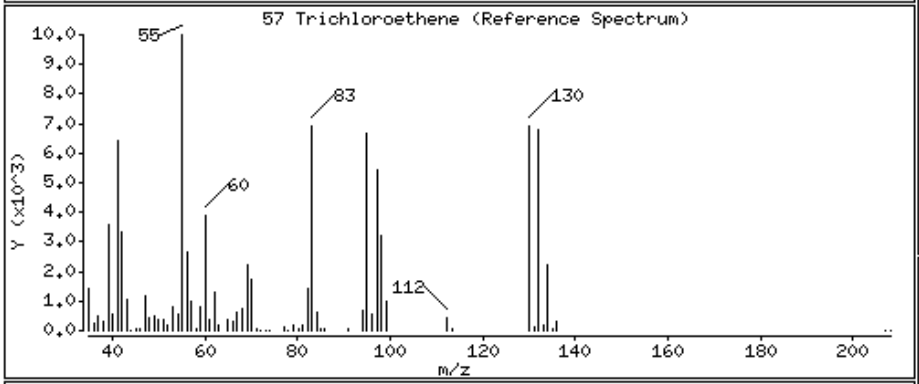
57 Trichloroethene Concentration: 11.1889 ug/L

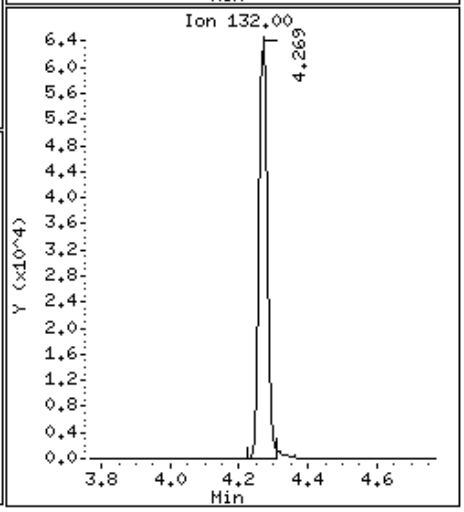


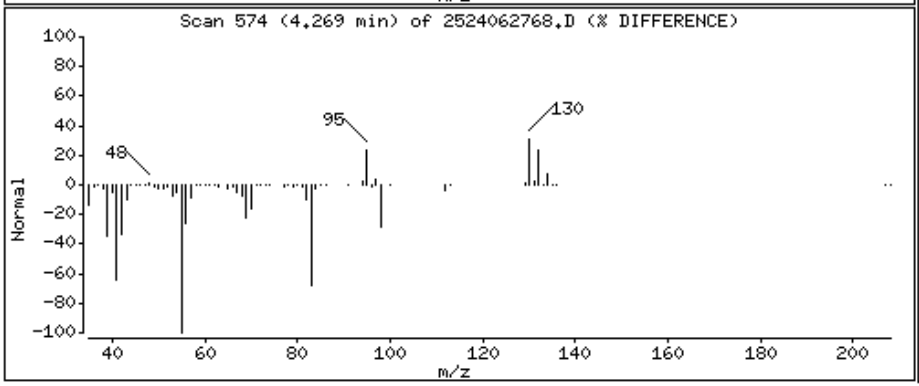



Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062768.D
Inj Date  : 28-JUN-2024 01:37
InstruID  : ms25.i
LabSampID : 3366027003

NO MANUAL INTEGRATIONS

# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:25
Client ID: HS24061196-03
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 28-JUN-2024 01:37
Operator: BST

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
Chloroethane
trans-1,3-Dichloropropene
Heptane
Methacrylonitrile
Trichlorofluoromethane
tert-Amyl Alcohol
1,2-Dichloroethane
Ethyl methacrylate
Isopropyl Alcohol
2-Nitropropane

Data File: 2524062769.D Page 1
Report Date: 28-Jun-2024 15:25

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062769.D
Lab Smp Id: 3366027004 Client Smp ID: HS24061196-04
Inj Date : 28-JUN-2024 01:58
Operator : BST Inst ID: ms25.i
Smp Info : 3366027004;;1;;;;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | | |
| 2 Chloromethane | 50 | Compound Not Detected. | | | | | | |
| 3 Vinyl Chloride | 62 | Compound Not Detected. | | | | | | |
| 4 Bromomethane | 94 | Compound Not Detected. | | | | | | |
| 5 Chloroethane | 64 | Compound Not Detected. | | | | | | |
| 6 Pentane | 41 | Compound Not Detected. | | | | | | |
| 7 Trichlorofluoromethane | 101 | Compound Not Detected. | | | | | | |
| 8 Dichlorofluoromethane | 67 | Compound Not Detected. | | | | | | |
| 9 Ethyl Ether | 74 | Compound Not Detected. | | | | | | |
| 10 1,1-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 12 Carbon Disulfide | 76 | Compound Not Detected. | | | | | | |
| 11 Freon 113 | 101 | 2.424 | 2.424 | (0.581) | 41264 | 6.15587 | 6.15587 | |
| 13 Iodomethane | 127 | Compound Not Detected. | | | | | | |
| 14 Acrolein | 56 | Compound Not Detected. | | | | | | |
| 16 3-Chloro-1-propene | 41 | Compound Not Detected. | | | | | | |
| 15 Isopropyl Alcohol | 45 | Compound Not Detected. | | | | | | |
| 17 Methylene Chloride | 84 | Compound Not Detected. | | | | | | |
| 18 Acetone | 58 | Compound Not Detected. | | | | | | |
| 19 Methyl acetate | 74 | Compound Not Detected. | | | | | | |
| 20 trans-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 21 Hexane | 57 | Compound Not Detected. | | | | | | |

Data File: 2524062769.D Page 2
Report Date: 28-Jun-2024 15:25

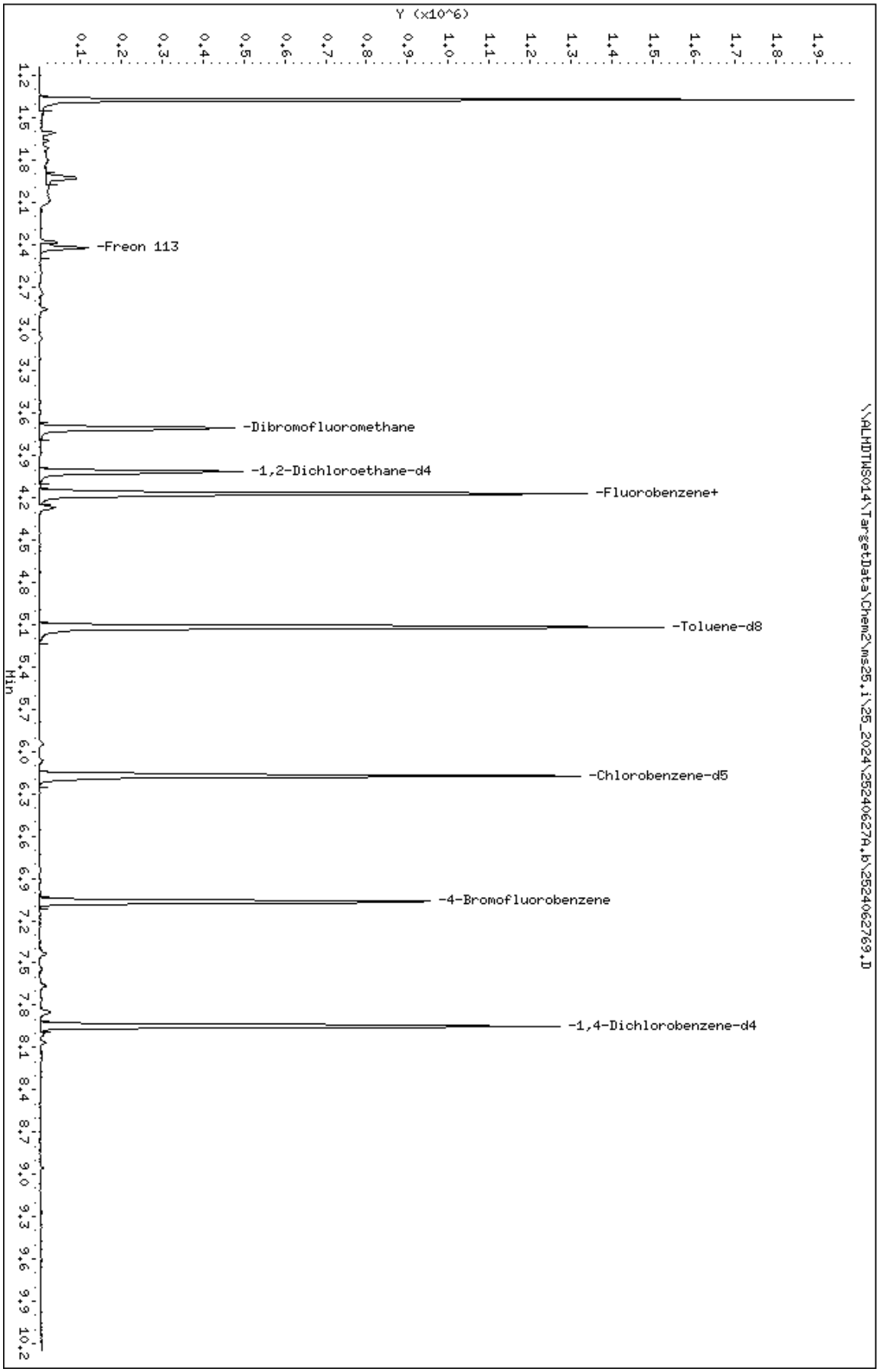
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | Compound Not Detected. | | | | | | |
| | 23 tert.- Butyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| | 24 Acetonitrile | 41 | Compound Not Detected. | | | | | | |
| | 25 Diisopropyl ether | 45 | Compound Not Detected. | | | | | | |
| | 26 Chloroprene | 53 | Compound Not Detected. | | | | | | |
| | 27 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | | |
| | 28 Acrylonitrile | 53 | Compound Not Detected. | | | | | | |
| | 30 n-Propanol | 41 | Compound Not Detected. | | | | | | |
| | 29 Ethyl tert-butyl ether | 59 | Compound Not Detected. | | | | | | |
| | 31 Vinyl acetate | 86 | Compound Not Detected. | | | | | | |
| | 32 cis-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| | 33 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | | |
| M | 100 1,2-Dichloroethene, Total | 61 | Compound Not Detected. | | | | | | |
| | 34 Bromochloromethane | 128 | Compound Not Detected. | | | | | | |
| | 35 Cyclohexane | 84 | Compound Not Detected. | | | | | | |
| | 36 Chloroform | 83 | Compound Not Detected. | | | | | | |
| | 37 Ethyl acetate | 43 | Compound Not Detected. | | | | | | |
| | 38 Methyl acrylate | 55 | Compound Not Detected. | | | | | | |
| | 39 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | | |
| | 40 Tetrahydrofuran | 42 | Compound Not Detected. | | | | | | |
| $ | 41 Dibromofluoromethane | 113 | 3.707 | 3.707 | (0.889) | 229714 | 29.3876 | 29.3876 | |
| | 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | | |
| | 43 2-Butanone | 72 | Compound Not Detected. | | | | | | |
| | 44 1,1-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 45 1-Chlorobutane | 41 | Compound Not Detected. | | | | | | |
| | 46 Heptane | 71 | Compound Not Detected. | | | | | | |
| | 48 Propionitrile | 54 | Compound Not Detected. | | | | | | |
| | 47 Benzene | 78 | Compound Not Detected. | | | | | | |
| | 49 Methacrylonitrile | 67 | Compound Not Detected. | | | | | | |
| | 50 tert-amyl methyl Ether | 73 | Compound Not Detected. | | | | | | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.012 | 4.012 | (0.962) | 270279 | 32.8009 | 32.8009 | |
| | 54 Isobutyl alcohol | 42 | Compound Not Detected. | | | | | | |
| | 52 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | | |
| | 53 tert-Amyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| * | 55 Fluorobenzene | 96 | 4.171 | 4.171 | (1.000) | 990668 | 30.0000 | | |
| | 56 Diisobutylene | 57 | Compound Not Detected. | | | | | | |
| | 57 Trichloroethene | 95 | 4.269 | 4.269 | (1.024) | 8883 | 1.12977 | 1.12977(H) | |
| | 58 Methyl cyclohexane | 83 | Compound Not Detected. | | | | | | |
| | 59 tert-Amyl Ethylether | 59 | Compound Not Detected. | | | | | | |
| | 60 Dibromomethane | 93 | Compound Not Detected. | | | | | | |
| | 61 1,2-Dichloropropane | 63 | Compound Not Detected. | | | | | | |
| | 62 Bromodichloromethane | 83 | Compound Not Detected. | | | | | | |
| | 63 Methyl methacrylate | 41 | Compound Not Detected. | | | | | | |
| | 65 2-Chloroethylvinyl ether | 63 | Compound Not Detected. | | | | | | |
| | 66 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 67 Octane | 85 | Compound Not Detected. | | | | | | |
| $ | 68 Toluene-d8 | 98 | 5.115 | 5.120 | (0.829) | 881950 | 30.5256 | 30.5256 | |
| | 69 Toluene | 92 | Compound Not Detected. | | | | | | |
| | 70 Chloroacetonitrile | 75 | Compound Not Detected. | | | | | | |
| | 71 2-Nitropropane | 41 | Compound Not Detected. | | | | | | |
| | 72 1,1-Dichloro-2-propanone | 63 | Compound Not Detected. | | | | | | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | Compound Not Detected. | | | | | | |
| | 75 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 74 Tetrachloroethene | 164 | Compound Not Detected. | | | | | | |

Data File: 2524062769.D Page 3
Report Date: 28-Jun-2024 15:25

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl methacrylate | 69 | Compound Not Detected. | | | | | | |
| | 77 1,1,2-Trichloroethane | 83 | Compound Not Detected. | | | | | | |
| | 78 Chlorodibromomethane | 129 | Compound Not Detected. | | | | | | |
| | 79 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | | |
| | 80 1,2-Dibromoethane | 107 | Compound Not Detected. | | | | | | |
| | 81 2-Hexanone | 43 | Compound Not Detected. | | | | | | |
| | 82 1-Chlorohexane | 91 | Compound Not Detected. | | | | | | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.173 | (1.000) | 364926 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | Compound Not Detected. | | | | | | |
| | 84 Chlorobenzene | 112 | Compound Not Detected. | | | | | | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | | |
| | 87 mp-Xylene | 106 | Compound Not Detected. | | | | | | |
| M | 120 1,3-Dichloropropene, Total | 75 | Compound Not Detected. | | | | | | |
| | 88 o-Xylene | 106 | Compound Not Detected. | | | | | | |
| | 89 Styrene | 104 | Compound Not Detected. | | | | | | |
| | 90 Bromoform | 173 | Compound Not Detected. | | | | | | |
| | 91 Isopropylbenzene | 105 | Compound Not Detected. | | | | | | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 247792 | 29.1135 | 29.1135 | |
| M | 121 TOTAL XYLENES | 106 | Compound Not Detected. | | | | | | |
| | 94 n-Propylbenzene | 120 | Compound Not Detected. | | | | | | |
| | 93 Bromobenzene | 156 | Compound Not Detected. | | | | | | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | | |
| | 97 1,3,5-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 96 o-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 98 1,2,3-Trichloropropane | 110 | Compound Not Detected. | | | | | | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | Compound Not Detected. | | | | | | |
| | 101 p-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 102 tert-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 103 Pentachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 104 1,2,4-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 105 sec-Butylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 106 p-Isopropyltoluene | 134 | Compound Not Detected. | | | | | | |
| | 107 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.946 | 7.952 | (1.000) | 307656 | 30.0000 | | (Q) |
| | 109 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 111 n-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 110 Benzyl Chloride | 126 | Compound Not Detected. | | | | | | |
| | 112 Hexachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 113 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | Compound Not Detected. | | | | | | |
| | 115 Nitrobenzene | 77 | Compound Not Detected. | | | | | | |
| | 116 Hexachlorobutadiene | 225 | Compound Not Detected. | | | | | | |
| | 117 1,2,4-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |
| | 118 Naphthalene | 128 | Compound Not Detected. | | | | | | |
| | 119 1,2,3-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.




Data File: \\ALHDTWS014\TargetData\Chem2\ms25,i\25_2024\25240627A,b\2524062769,D
Date : 28-JUN-2024 01:58
Client ID: HS2406l196-04
Sample Info: 33660270041;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25,i
Operator: BST
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062769.D Page 2

Date : 28-JUN-2024 01:58

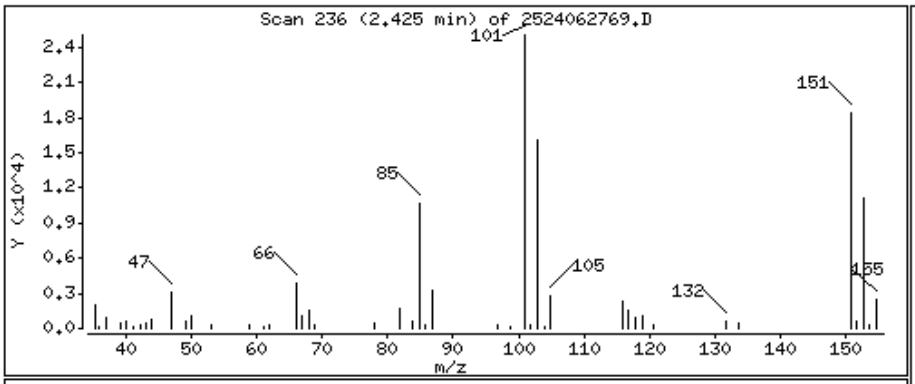
Client ID: HS24061196-04 Instrument: ms25.i

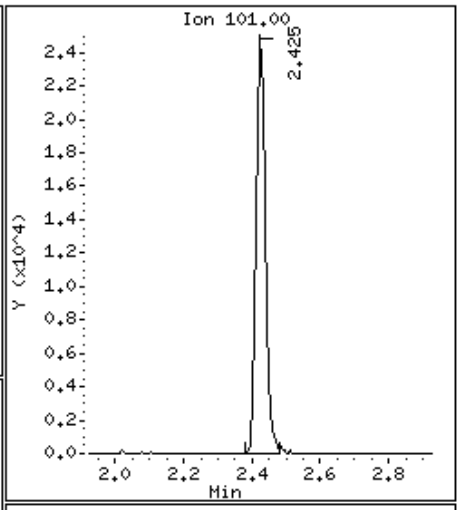
Sample Info: 3366027004;;1;;;;;

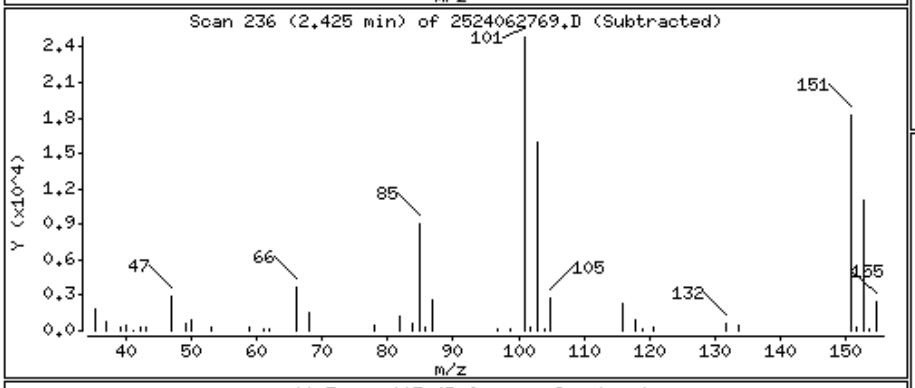
Purge Volume: 5.0 Operator: BST

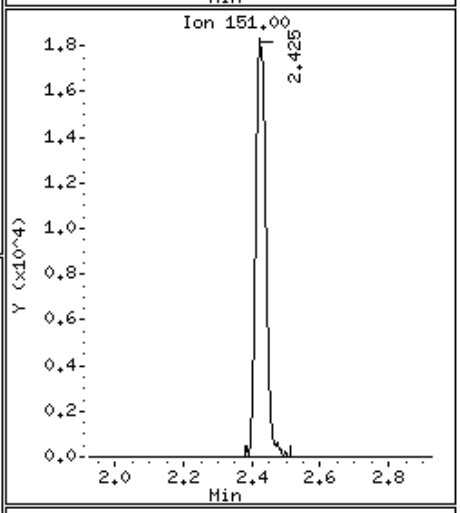
Column phase: DB-VRX Column diameter: 0.25

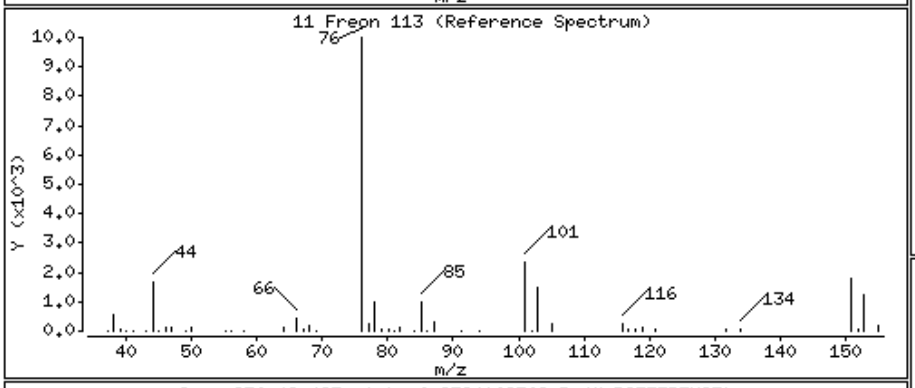
11 Freon 113 Concentration: 6.15587 ug/L

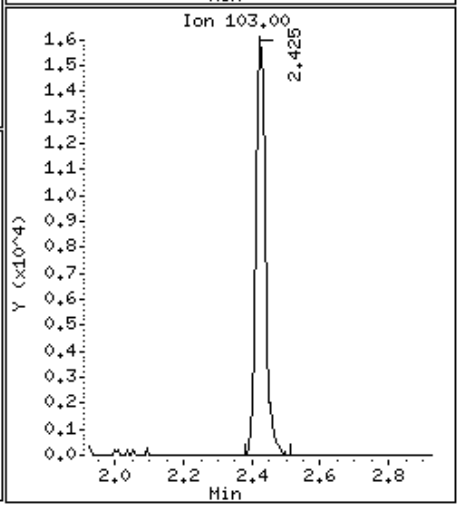


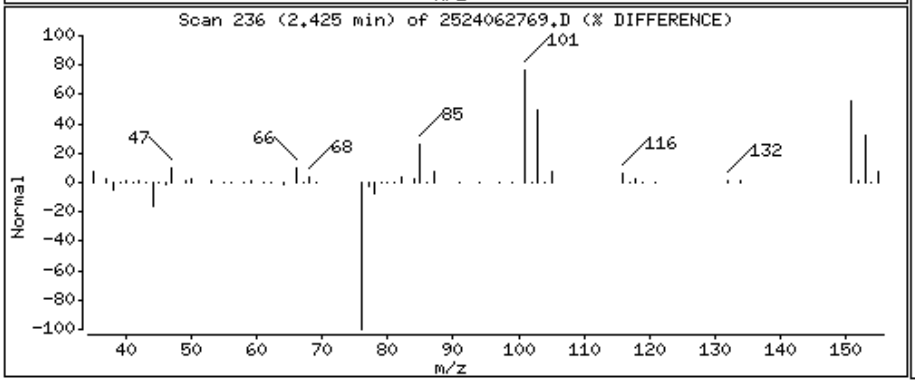



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062769.D Page 3

Date : 28-JUN-2024 01:58

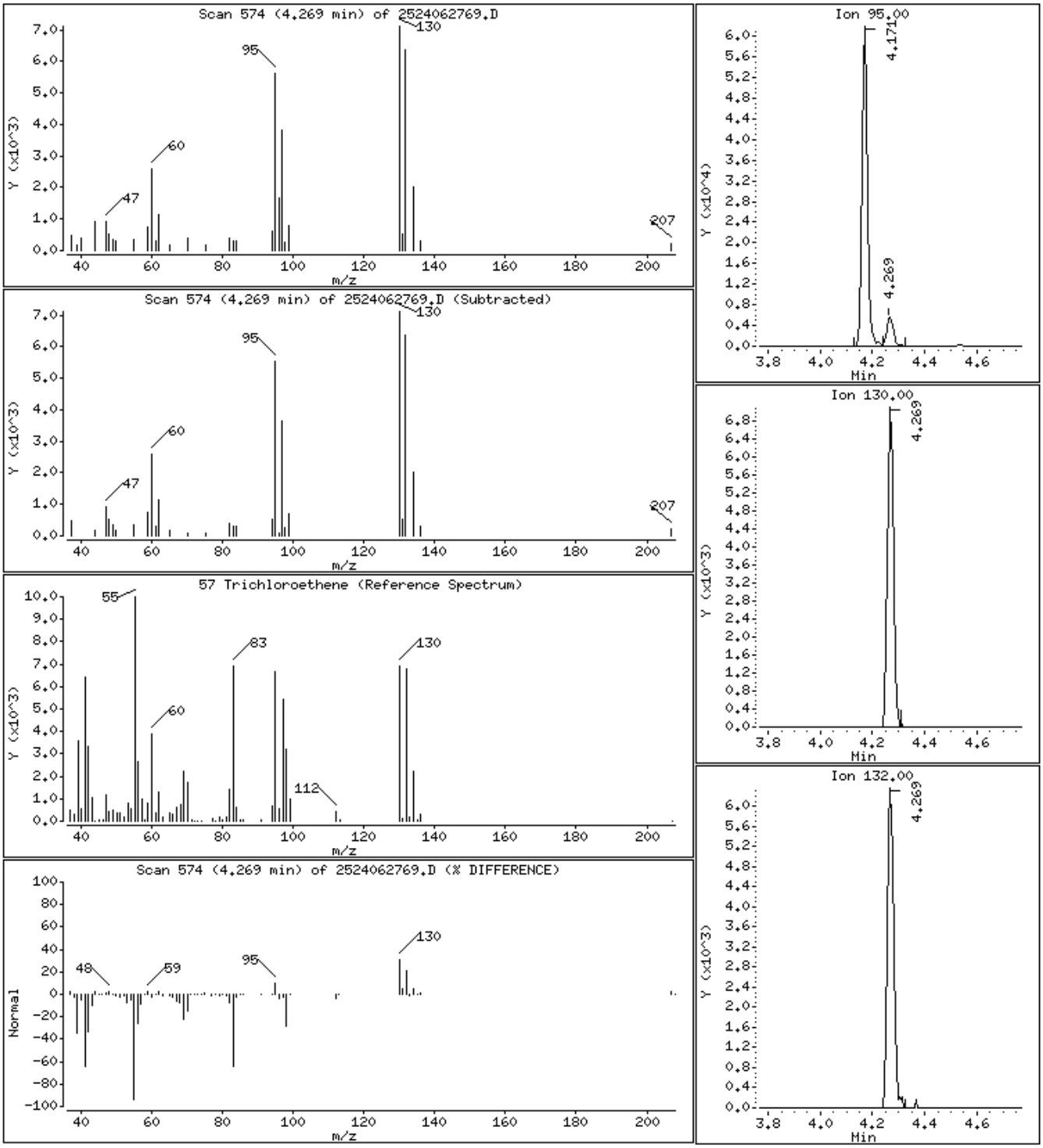
Client ID: HS24061196-04 Instrument: ms25.i

Sample Info: 3366027004;;1;;;;;

Purge Volume: 5.0 Operator: BST

Column phase: DB-VRX Column diameter: 0.25

57 Trichloroethene Concentration: 1.12977 ug/L



Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062769.D
Inj Date  : 28-JUN-2024 01:58
InstruID  : ms25.i
LabSampID : 3366027004

NO MANUAL INTEGRATIONS

# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:25
Client ID: HS24061196-04
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 28-JUN-2024 01:58
Operator: BST

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1,2-Dichloroethane
Ethyl methacrylate
Trichlorofluoromethane
Chloroethane
Dichlorofluoromethane
2-Nitropropane

Data File: 2524062770.D Page 1
Report Date: 28-Jun-2024 15:28

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062770.D
Lab Smp Id: 3366027005 Client Smp ID: HS24061196-05
Inj Date : 28-JUN-2024 02:18
Operator : BST Inst ID: ms25.i
Smp Info : 3366027005;;1;;;;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | | |
| 2 Chloromethane | 50 | Compound Not Detected. | | | | | | |
| 3 Vinyl Chloride | 62 | Compound Not Detected. | | | | | | |
| 4 Bromomethane | 94 | Compound Not Detected. | | | | | | |
| 5 Chloroethane | 64 | Compound Not Detected. | | | | | | |
| 6 Pentane | 41 | Compound Not Detected. | | | | | | |
| 7 Trichlorofluoromethane | 101 | Compound Not Detected. | | | | | | |
| 8 Dichlorofluoromethane | 67 | Compound Not Detected. | | | | | | |
| 9 Ethyl Ether | 74 | Compound Not Detected. | | | | | | |
| 10 1,1-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 12 Carbon Disulfide | 76 | Compound Not Detected. | | | | | | |
| 11 Freon 113 | 101 | 2.419 | 2.424 | (0.580) | 3511 | 0.50214 | 0.502137(a) | |
| 13 Iodomethane | 127 | Compound Not Detected. | | | | | | |
| 14 Acrolein | 56 | Compound Not Detected. | | | | | | |
| 16 3-Chloro-1-propene | 41 | Compound Not Detected. | | | | | | |
| 15 Isopropyl Alcohol | 45 | Compound Not Detected. | | | | | | |
| 17 Methylene Chloride | 84 | Compound Not Detected. | | | | | | |
| 18 Acetone | 58 | Compound Not Detected. | | | | | | |
| 19 Methyl acetate | 74 | Compound Not Detected. | | | | | | |
| 20 trans-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 21 Hexane | 57 | Compound Not Detected. | | | | | | |

Data File: 2524062770.D Page 2
Report Date: 28-Jun-2024 15:28

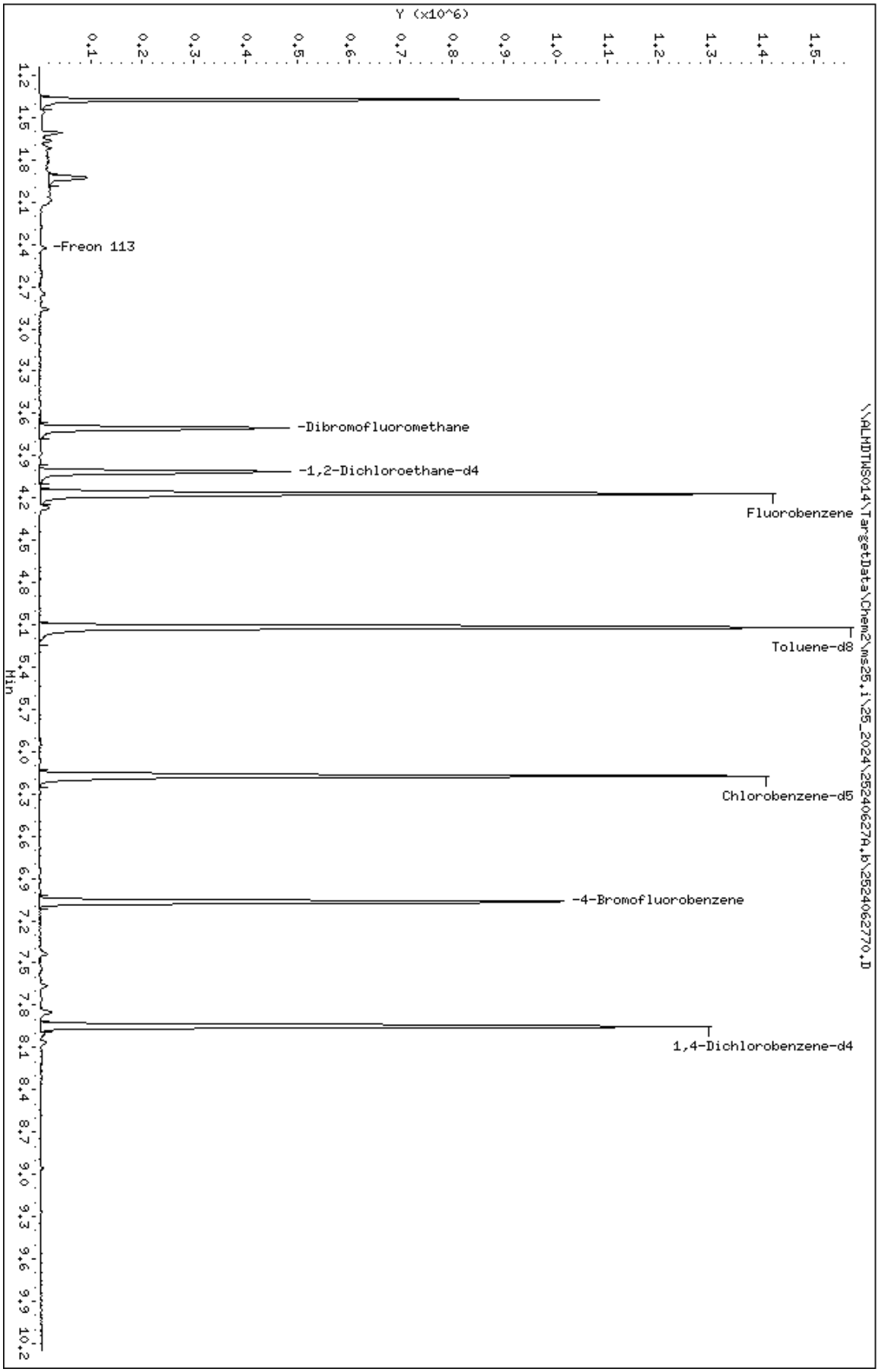
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | Compound Not Detected. | | | | | | |
| | 23 tert.- Butyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| | 24 Acetonitrile | 41 | Compound Not Detected. | | | | | | |
| | 25 Diisopropyl ether | 45 | Compound Not Detected. | | | | | | |
| | 26 Chloroprene | 53 | Compound Not Detected. | | | | | | |
| | 27 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | | |
| | 28 Acrylonitrile | 53 | Compound Not Detected. | | | | | | |
| | 30 n-Propanol | 41 | Compound Not Detected. | | | | | | |
| | 29 Ethyl tert-butyl ether | 59 | Compound Not Detected. | | | | | | |
| | 31 Vinyl acetate | 86 | Compound Not Detected. | | | | | | |
| | 32 cis-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| | 33 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | | |
| M | 100 1,2-Dichloroethene, Total | 61 | Compound Not Detected. | | | | | | |
| | 34 Bromochloromethane | 128 | Compound Not Detected. | | | | | | |
| | 35 Cyclohexane | 84 | Compound Not Detected. | | | | | | |
| | 36 Chloroform | 83 | Compound Not Detected. | | | | | | |
| | 37 Ethyl acetate | 43 | Compound Not Detected. | | | | | | |
| | 38 Methyl acrylate | 55 | Compound Not Detected. | | | | | | |
| | 39 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | | |
| | 40 Tetrahydrofuran | 42 | Compound Not Detected. | | | | | | |
| $ | 41 Dibromofluoromethane | 113 | 3.707 | 3.707 | (0.889) | 233152 | 28.5949 | 28.5949 | |
| | 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | | |
| | 43 2-Butanone | 72 | Compound Not Detected. | | | | | | |
| | 44 1,1-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 45 1-Chlorobutane | 41 | Compound Not Detected. | | | | | | |
| | 46 Heptane | 71 | Compound Not Detected. | | | | | | |
| | 48 Propionitrile | 54 | Compound Not Detected. | | | | | | |
| | 47 Benzene | 78 | Compound Not Detected. | | | | | | |
| | 49 Methacrylonitrile | 67 | Compound Not Detected. | | | | | | |
| | 50 tert-amyl methyl Ether | 73 | Compound Not Detected. | | | | | | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.018 | 4.012 | (0.963) | 267576 | 31.1311 | 31.1311 | |
| | 54 Isobutyl alcohol | 42 | Compound Not Detected. | | | | | | |
| | 52 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | | |
| | 53 tert-Amyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| * | 55 Fluorobenzene | 96 | 4.171 | 4.171 | (1.000) | 1033369 | 30.0000 | | |
| | 56 Diisobutylene | 57 | Compound Not Detected. | | | | | | |
| | 57 Trichloroethene | 95 | Compound Not Detected. | | | | | | |
| | 58 Methyl cyclohexane | 83 | Compound Not Detected. | | | | | | |
| | 59 tert-Amyl Ethylether | 59 | Compound Not Detected. | | | | | | |
| | 60 Dibromomethane | 93 | Compound Not Detected. | | | | | | |
| | 61 1,2-Dichloropropane | 63 | Compound Not Detected. | | | | | | |
| | 62 Bromodichloromethane | 83 | Compound Not Detected. | | | | | | |
| | 63 Methyl methacrylate | 41 | Compound Not Detected. | | | | | | |
| | 65 2-Chloroethylvinyl ether | 63 | Compound Not Detected. | | | | | | |
| | 66 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 67 Octane | 85 | Compound Not Detected. | | | | | | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 921242 | 30.8455 | 30.8455 | |
| | 69 Toluene | 92 | Compound Not Detected. | | | | | | |
| | 70 Chloroacetonitrile | 75 | Compound Not Detected. | | | | | | |
| | 71 2-Nitropropane | 41 | Compound Not Detected. | | | | | | |
| | 72 1,1-Dichloro-2-propanone | 63 | Compound Not Detected. | | | | | | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | Compound Not Detected. | | | | | | |
| | 75 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 74 Tetrachloroethene | 164 | Compound Not Detected. | | | | | | |

Data File: 2524062770.D Page 3
Report Date: 28-Jun-2024 15:28

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl methacrylate | 69 | Compound Not Detected. | | | | | | |
| | 77 1,1,2-Trichloroethane | 83 | Compound Not Detected. | | | | | | |
| | 78 Chlorodibromomethane | 129 | Compound Not Detected. | | | | | | |
| | 79 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | | |
| | 80 1,2-Dibromoethane | 107 | Compound Not Detected. | | | | | | |
| | 81 2-Hexanone | 43 | Compound Not Detected. | | | | | | |
| | 82 1-Chlorohexane | 91 | Compound Not Detected. | | | | | | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.173 | (1.000) | 377230 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | Compound Not Detected. | | | | | | |
| | 84 Chlorobenzene | 112 | Compound Not Detected. | | | | | | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | | |
| | 87 mp-Xylene | 106 | Compound Not Detected. | | | | | | |
| M | 120 1,3-Dichloropropene, Total | 75 | Compound Not Detected. | | | | | | |
| | 88 o-Xylene | 106 | Compound Not Detected. | | | | | | |
| | 89 Styrene | 104 | Compound Not Detected. | | | | | | |
| | 90 Bromoform | 173 | Compound Not Detected. | | | | | | |
| | 91 Isopropylbenzene | 105 | Compound Not Detected. | | | | | | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 265044 | 29.4998 | 29.4998 | |
| M | 121 TOTAL XYLENES | 106 | Compound Not Detected. | | | | | | |
| | 94 n-Propylbenzene | 120 | Compound Not Detected. | | | | | | |
| | 93 Bromobenzene | 156 | Compound Not Detected. | | | | | | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | | |
| | 97 1,3,5-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 96 o-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 98 1,2,3-Trichloropropane | 110 | Compound Not Detected. | | | | | | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | Compound Not Detected. | | | | | | |
| | 101 p-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 102 tert-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 103 Pentachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 104 1,2,4-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 105 sec-Butylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 106 p-Isopropyltoluene | 134 | Compound Not Detected. | | | | | | |
| | 107 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 324767 | 30.0000 | | (Q) |
| | 109 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 111 n-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 110 Benzyl Chloride | 126 | Compound Not Detected. | | | | | | |
| | 112 Hexachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 113 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | Compound Not Detected. | | | | | | |
| | 115 Nitrobenzene | 77 | Compound Not Detected. | | | | | | |
| | 116 Hexachlorobutadiene | 225 | Compound Not Detected. | | | | | | |
| | 117 1,2,4-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |
| | 118 Naphthalene | 128 | Compound Not Detected. | | | | | | |
| | 119 1,2,3-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.




Data File: \\ALMDTWS014\TargetData\Chem2\ms25,i\25_2024\25240627A,b\2524062770.D
Date : 28-JUN-2024 02:18
Client ID: HS24061196-05
Sample Info: 33660270051;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: BST
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062770.D Page 2

Date : 28-JUN-2024 02:18

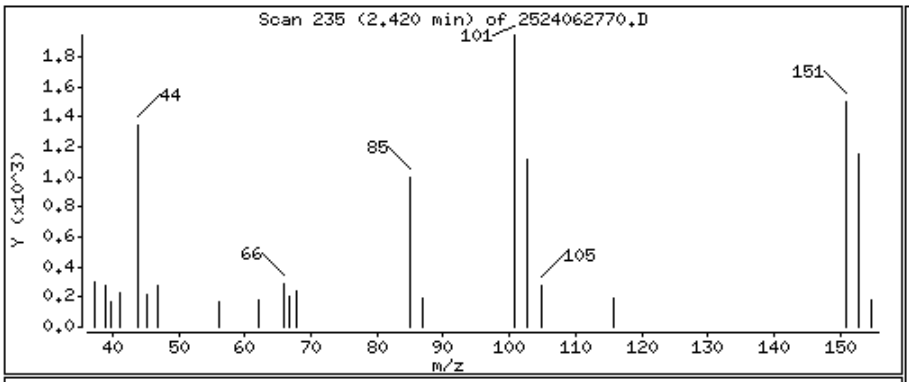
Client ID: HS24061196-05 Instrument: ms25.i

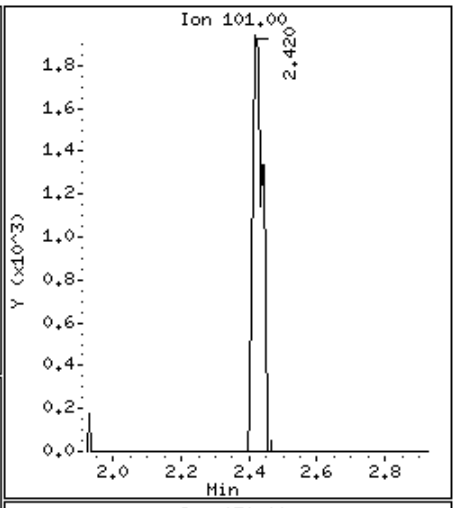
Sample Info: 3366027005;;1;;;;;

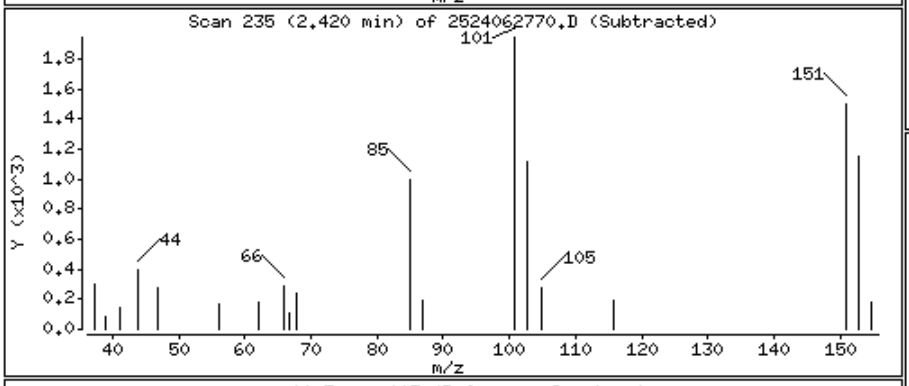
Purge Volume: 5.0 Operator: BST

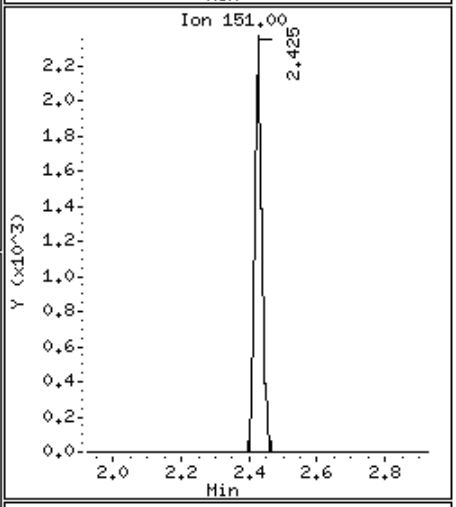
Column phase: DB-VRX Column diameter: 0.25

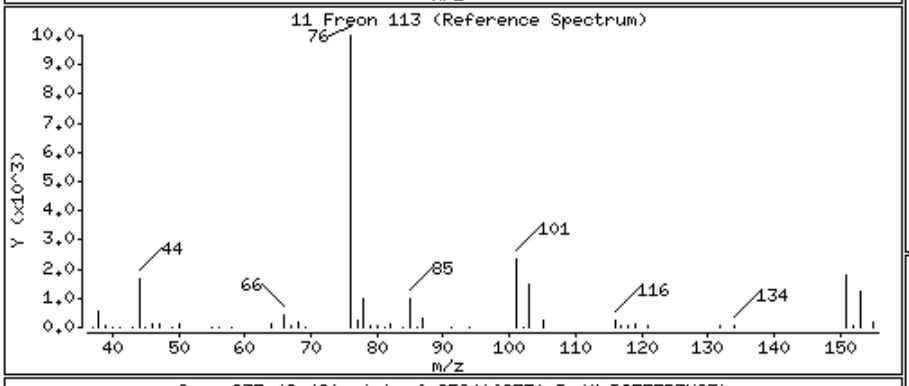
11 Freon 113 Concentration: 0.502137 ug/L

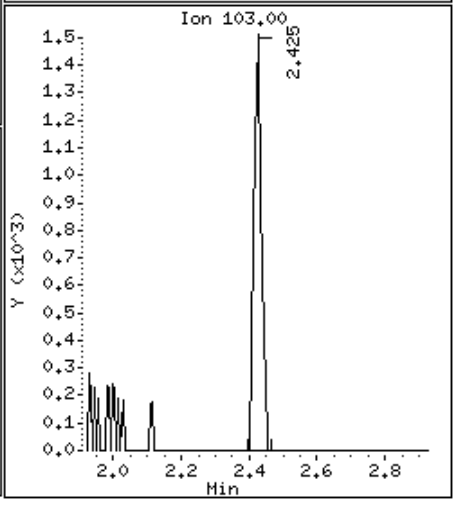


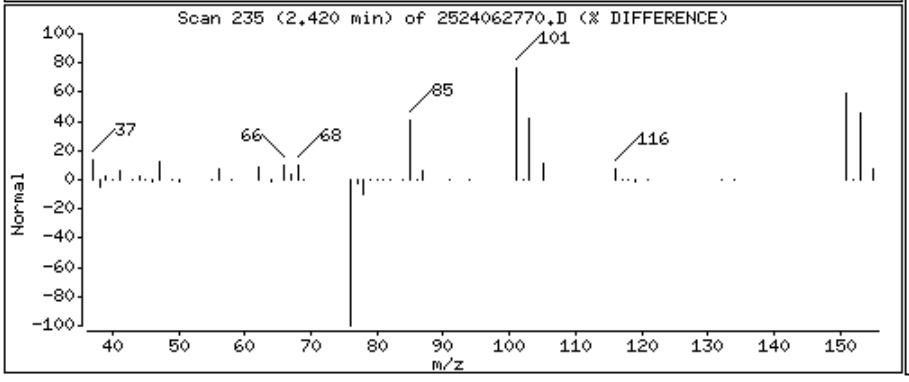



Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062770.D
Inj Date  : 28-JUN-2024 02:18
InstruID  : ms25.i
LabSampID : 3366027005

NO MANUAL INTEGRATIONS

# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:28
Client ID: HS24061196-05
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 28-JUN-2024 02:18
Operator: BST

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1,2-Dichloroethane
Heptane
2-Nitropropane
Chloroethane
Ethyl methacrylate
Methacrylonitrile

Data File: 2524062771.D Page 1
Report Date: 28-Jun-2024 15:28

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062771.D
Lab Smp Id: 3366027006 Client Smp ID: HS24061196-06
Inj Date : 28-JUN-2024 02:38
Operator : BST Inst ID: ms25.i
Smp Info : 3366027006;;1;;;;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | | |
| 2 Chloromethane | 50 | Compound Not Detected. | | | | | | |
| 3 Vinyl Chloride | 62 | Compound Not Detected. | | | | | | |
| 4 Bromomethane | 94 | Compound Not Detected. | | | | | | |
| 5 Chloroethane | 64 | Compound Not Detected. | | | | | | |
| 6 Pentane | 41 | Compound Not Detected. | | | | | | |
| 7 Trichlorofluoromethane | 101 | Compound Not Detected. | | | | | | |
| 8 Dichlorofluoromethane | 67 | Compound Not Detected. | | | | | | |
| 9 Ethyl Ether | 74 | Compound Not Detected. | | | | | | |
| 10 1,1-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 12 Carbon Disulfide | 76 | Compound Not Detected. | | | | | | |
| 11 Freon 113 | 101 | 2.419 | 2.424 | (0.580) | 3038 | 0.45707 | 0.457069(a) | |
| 13 Iodomethane | 127 | Compound Not Detected. | | | | | | |
| 14 Acrolein | 56 | Compound Not Detected. | | | | | | |
| 16 3-Chloro-1-propene | 41 | Compound Not Detected. | | | | | | |
| 15 Isopropyl Alcohol | 45 | Compound Not Detected. | | | | | | |
| 17 Methylene Chloride | 84 | Compound Not Detected. | | | | | | |
| 18 Acetone | 58 | Compound Not Detected. | | | | | | |
| 19 Methyl acetate | 74 | Compound Not Detected. | | | | | | |
| 20 trans-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 21 Hexane | 57 | Compound Not Detected. | | | | | | |

Data File: 2524062771.D Page 2
Report Date: 28-Jun-2024 15:28

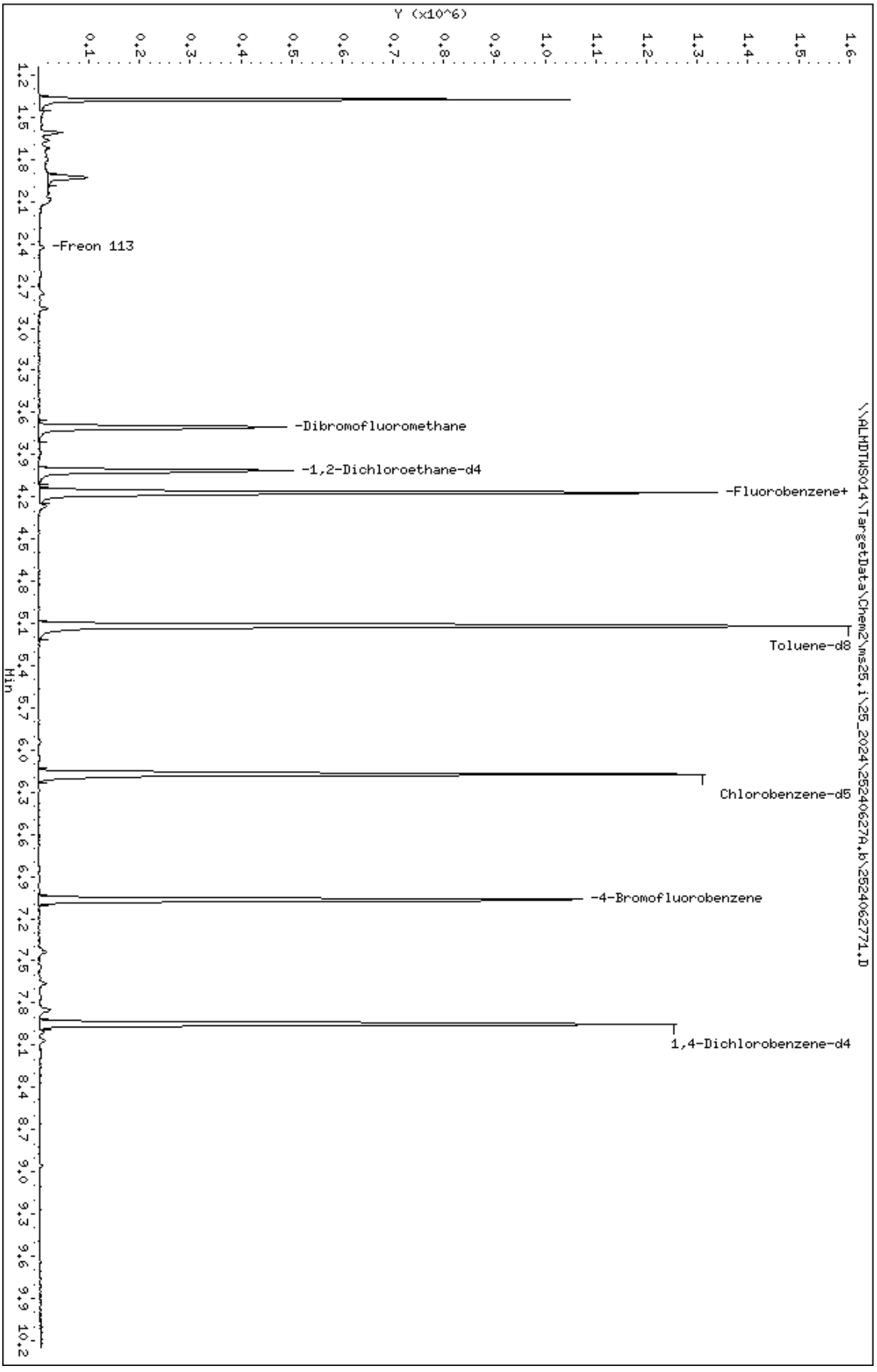
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | Compound Not Detected. | | | | | | |
| | 23 tert.- Butyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| | 24 Acetonitrile | 41 | Compound Not Detected. | | | | | | |
| | 25 Diisopropyl ether | 45 | Compound Not Detected. | | | | | | |
| | 26 Chloroprene | 53 | Compound Not Detected. | | | | | | |
| | 27 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | | |
| | 28 Acrylonitrile | 53 | Compound Not Detected. | | | | | | |
| | 30 n-Propanol | 41 | Compound Not Detected. | | | | | | |
| | 29 Ethyl tert-butyl ether | 59 | Compound Not Detected. | | | | | | |
| | 31 Vinyl acetate | 86 | Compound Not Detected. | | | | | | |
| | 32 cis-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| | 33 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | | |
| M | 100 1,2-Dichloroethene, Total | 61 | Compound Not Detected. | | | | | | |
| | 34 Bromochloromethane | 128 | Compound Not Detected. | | | | | | |
| | 35 Cyclohexane | 84 | Compound Not Detected. | | | | | | |
| | 36 Chloroform | 83 | Compound Not Detected. | | | | | | |
| | 37 Ethyl acetate | 43 | Compound Not Detected. | | | | | | |
| | 38 Methyl acrylate | 55 | Compound Not Detected. | | | | | | |
| | 39 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | | |
| | 40 Tetrahydrofuran | 42 | Compound Not Detected. | | | | | | |
| $ | 41 Dibromofluoromethane | 113 | 3.707 | 3.707 | (0.889) | 231476 | 29.8647 | 29.8647 | |
| | 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | | |
| | 43 2-Butanone | 72 | Compound Not Detected. | | | | | | |
| | 44 1,1-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 45 1-Chlorobutane | 41 | Compound Not Detected. | | | | | | |
| | 46 Heptane | 71 | Compound Not Detected. | | | | | | |
| | 48 Propionitrile | 54 | Compound Not Detected. | | | | | | |
| | 47 Benzene | 78 | Compound Not Detected. | | | | | | |
| | 49 Methacrylonitrile | 67 | Compound Not Detected. | | | | | | |
| | 50 tert-amyl methyl Ether | 73 | Compound Not Detected. | | | | | | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.012 | 4.012 | (0.962) | 269992 | 33.0446 | 33.0446 | |
| | 54 Isobutyl alcohol | 42 | Compound Not Detected. | | | | | | |
| | 52 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | | |
| | 53 tert-Amyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| * | 55 Fluorobenzene | 96 | 4.171 | 4.171 | (1.000) | 982319 | 30.0000 | | |
| | 56 Diisobutylene | 57 | Compound Not Detected. | | | | | | |
| | 57 Trichloroethene | 95 | 4.269 | 4.269 | (1.024) | 5092 | 0.65312 | 0.653123(aQ) | |
| | 58 Methyl cyclohexane | 83 | Compound Not Detected. | | | | | | |
| | 59 tert-Amyl Ethylether | 59 | Compound Not Detected. | | | | | | |
| | 60 Dibromomethane | 93 | Compound Not Detected. | | | | | | |
| | 61 1,2-Dichloropropane | 63 | Compound Not Detected. | | | | | | |
| | 62 Bromodichloromethane | 83 | Compound Not Detected. | | | | | | |
| | 63 Methyl methacrylate | 41 | Compound Not Detected. | | | | | | |
| | 65 2-Chloroethylvinyl ether | 63 | Compound Not Detected. | | | | | | |
| | 66 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 67 Octane | 85 | Compound Not Detected. | | | | | | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 925638 | 32.3068 | 32.3068 | |
| | 69 Toluene | 92 | Compound Not Detected. | | | | | | |
| | 70 Chloroacetonitrile | 75 | Compound Not Detected. | | | | | | |
| | 71 2-Nitropropane | 41 | Compound Not Detected. | | | | | | |
| | 72 1,1-Dichloro-2-propanone | 63 | Compound Not Detected. | | | | | | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | Compound Not Detected. | | | | | | |
| | 75 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 74 Tetrachloroethene | 164 | Compound Not Detected. | | | | | | |

Data File: 2524062771.D Page 3
Report Date: 28-Jun-2024 15:28

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl methacrylate | 69 | Compound Not Detected. | | | | | | |
| | 77 1,1,2-Trichloroethane | 83 | Compound Not Detected. | | | | | | |
| | 78 Chlorodibromomethane | 129 | Compound Not Detected. | | | | | | |
| | 79 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | | |
| | 80 1,2-Dibromoethane | 107 | Compound Not Detected. | | | | | | |
| | 81 2-Hexanone | 43 | Compound Not Detected. | | | | | | |
| | 82 1-Chlorohexane | 91 | Compound Not Detected. | | | | | | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.173 | (1.000) | 361886 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | Compound Not Detected. | | | | | | |
| | 84 Chlorobenzene | 112 | Compound Not Detected. | | | | | | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | | |
| | 87 mp-Xylene | 106 | Compound Not Detected. | | | | | | |
| M | 120 1,3-Dichloropropene, Total | 75 | Compound Not Detected. | | | | | | |
| | 88 o-Xylene | 106 | Compound Not Detected. | | | | | | |
| | 89 Styrene | 104 | Compound Not Detected. | | | | | | |
| | 90 Bromoform | 173 | Compound Not Detected. | | | | | | |
| | 91 Isopropylbenzene | 105 | Compound Not Detected. | | | | | | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 271933 | 31.7180 | 31.7180 | |
| M | 121 TOTAL XYLENES | 106 | Compound Not Detected. | | | | | | |
| | 94 n-Propylbenzene | 120 | Compound Not Detected. | | | | | | |
| | 93 Bromobenzene | 156 | Compound Not Detected. | | | | | | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | | |
| | 97 1,3,5-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 96 o-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 98 1,2,3-Trichloropropane | 110 | Compound Not Detected. | | | | | | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | Compound Not Detected. | | | | | | |
| | 101 p-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 102 tert-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 103 Pentachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 104 1,2,4-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 105 sec-Butylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 106 p-Isopropyltoluene | 134 | Compound Not Detected. | | | | | | |
| | 107 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 309905 | 30.0000 | | (Q) |
| | 109 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 111 n-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 110 Benzyl Chloride | 126 | Compound Not Detected. | | | | | | |
| | 112 Hexachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 113 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | Compound Not Detected. | | | | | | |
| | 115 Nitrobenzene | 77 | Compound Not Detected. | | | | | | |
| | 116 Hexachlorobutadiene | 225 | Compound Not Detected. | | | | | | |
| | 117 1,2,4-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |
| | 118 Naphthalene | 128 | Compound Not Detected. | | | | | | |
| | 119 1,2,3-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.




Data File: \\ALMDTWS014\TargetData\Chem2\ms25,i\25_2024\25240627A,b\2524062771.D
Date : 28-JUN-2024 02:38
Client ID: HS24061196-06
Sample Info: 33660270061;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25,i
Operator: BST
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062771.D Page 2

Date : 28-JUN-2024 02:38

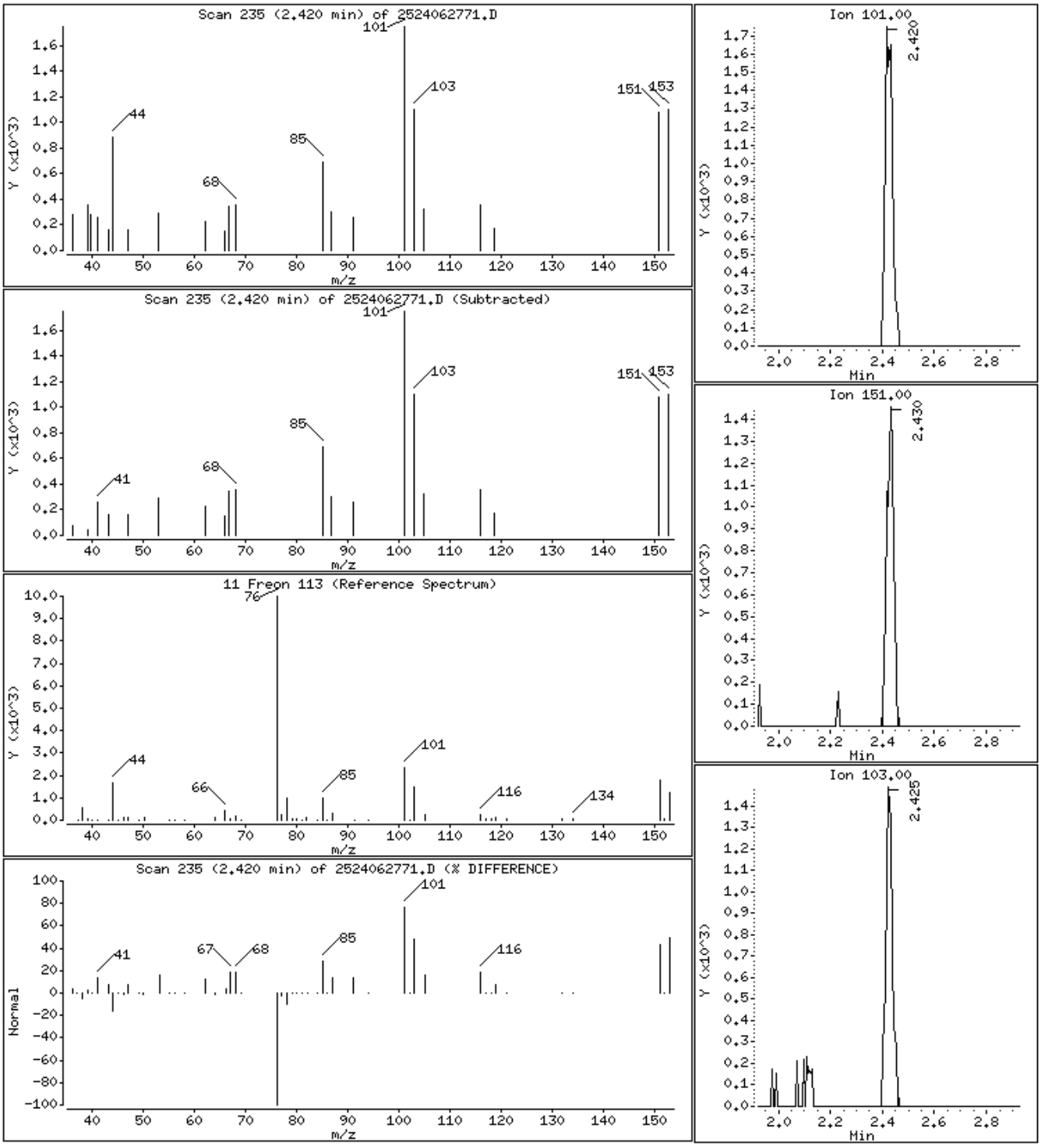
Client ID: HS24061196-06 Instrument: ms25.i

Sample Info: 3366027006;;1;;;;;

Purge Volume: 5.0 Operator: BST

Column phase: DB-VRX Column diameter: 0.25

11 Freon 113 Concentration: 0.457069 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062771.D Page 3

Date : 28-JUN-2024 02:38

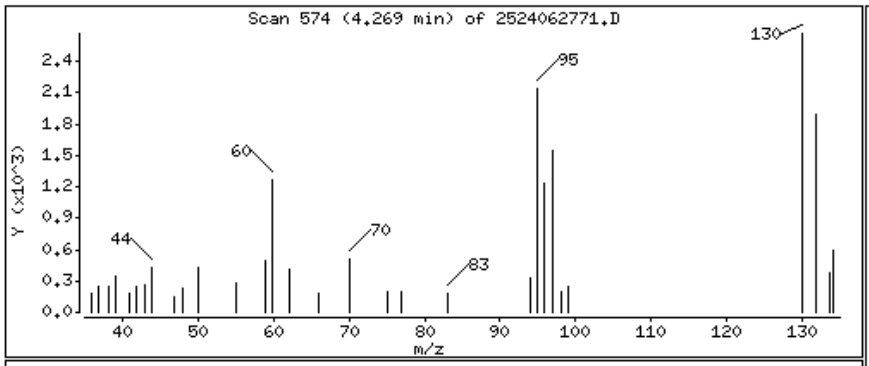
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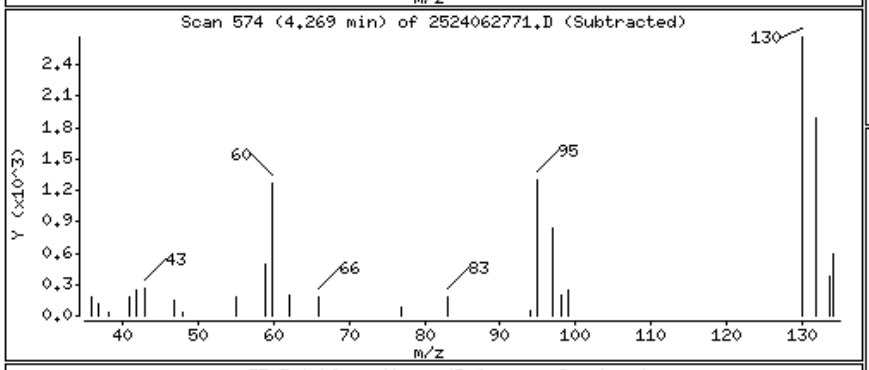
Sample Info: 3366027006;;1;;;;;

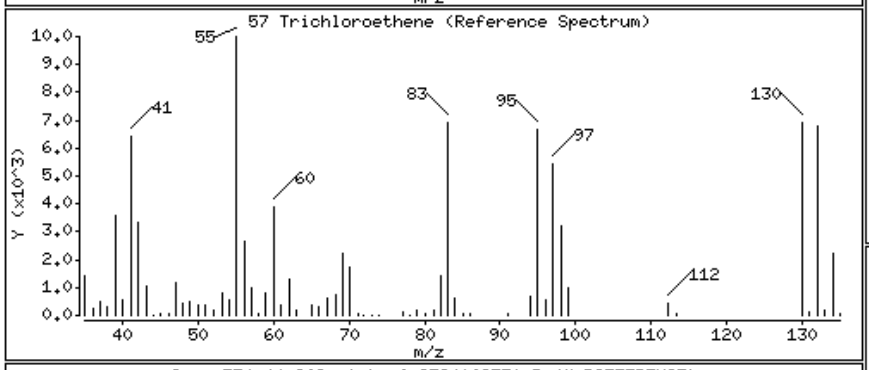
Purge Volume: 5.0 Operator: BST

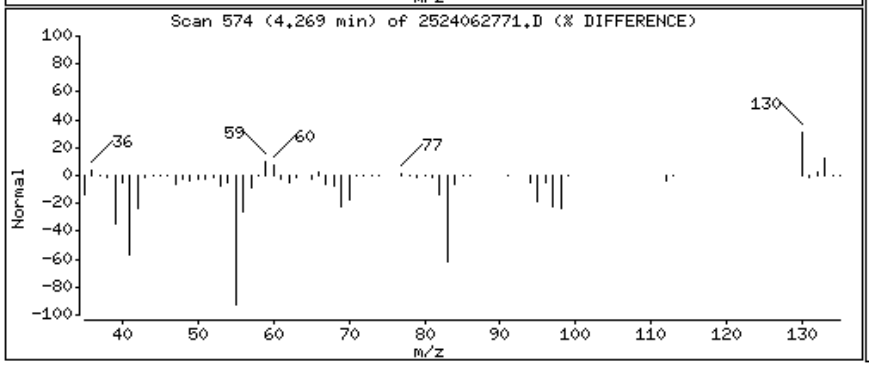
Column phase: DB-VRX Column diameter: 0.25

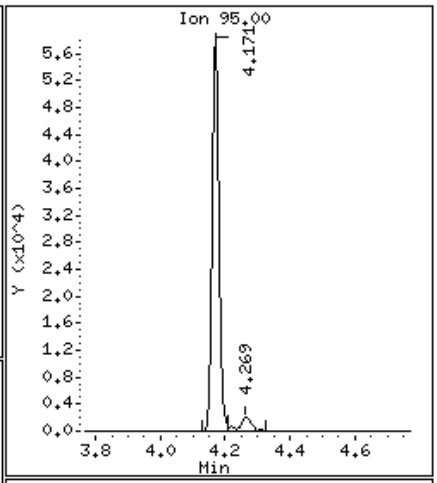
57 Trichloroethene Concentration: 0.653123 ug/L

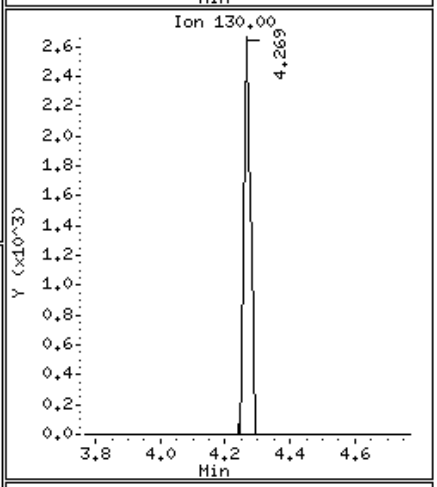


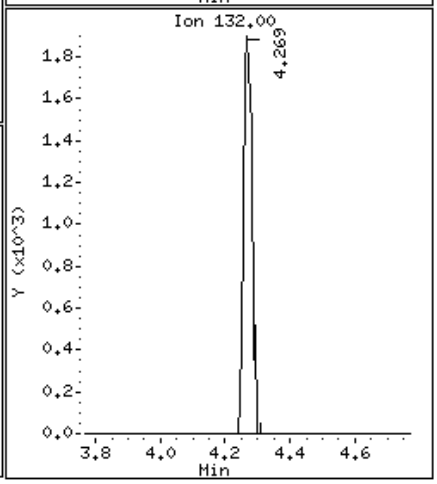



Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062771.D
Inj Date  : 28-JUN-2024 02:38
InstruID  : ms25.i
LabSampID : 3366027006

NO MANUAL INTEGRATIONS

# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:28
Client ID: HS24061196-06
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 28-JUN-2024 02:38
Operator: BST

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1,2-Dichloroethane
Methacrylonitrile
Chloroethane
Ethyl methacrylate
2-Nitropropane

Data File: 2524062772.D Page 1
Report Date: 28-Jun-2024 15:29

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062772.D
Lab Smp Id: 3366027007 Client Smp ID: HS24061196-07
Inj Date : 28-JUN-2024 02:59
Operator : BST Inst ID: ms25.i
Smp Info : 3366027007;;1;;;;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | | |
| 2 Chloromethane | 50 | Compound Not Detected. | | | | | | |
| 3 Vinyl Chloride | 62 | Compound Not Detected. | | | | | | |
| 4 Bromomethane | 94 | Compound Not Detected. | | | | | | |
| 5 Chloroethane | 64 | Compound Not Detected. | | | | | | |
| 6 Pentane | 41 | Compound Not Detected. | | | | | | |
| 7 Trichlorofluoromethane | 101 | Compound Not Detected. | | | | | | |
| 8 Dichlorofluoromethane | 67 | Compound Not Detected. | | | | | | |
| 9 Ethyl Ether | 74 | Compound Not Detected. | | | | | | |
| 10 1,1-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 12 Carbon Disulfide | 76 | Compound Not Detected. | | | | | | |
| 11 Freon 113 | 101 | 2.424 | 2.424 | (0.581) | 2481 | 0.34969 | 0.349690(a) | |
| 13 Iodomethane | 127 | Compound Not Detected. | | | | | | |
| 14 Acrolein | 56 | Compound Not Detected. | | | | | | |
| 16 3-Chloro-1-propene | 41 | Compound Not Detected. | | | | | | |
| 15 Isopropyl Alcohol | 45 | Compound Not Detected. | | | | | | |
| 17 Methylene Chloride | 84 | Compound Not Detected. | | | | | | |
| 18 Acetone | 58 | Compound Not Detected. | | | | | | |
| 19 Methyl acetate | 74 | Compound Not Detected. | | | | | | |
| 20 trans-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 21 Hexane | 57 | Compound Not Detected. | | | | | | |

Data File: 2524062772.D Page 2
Report Date: 28-Jun-2024 15:29

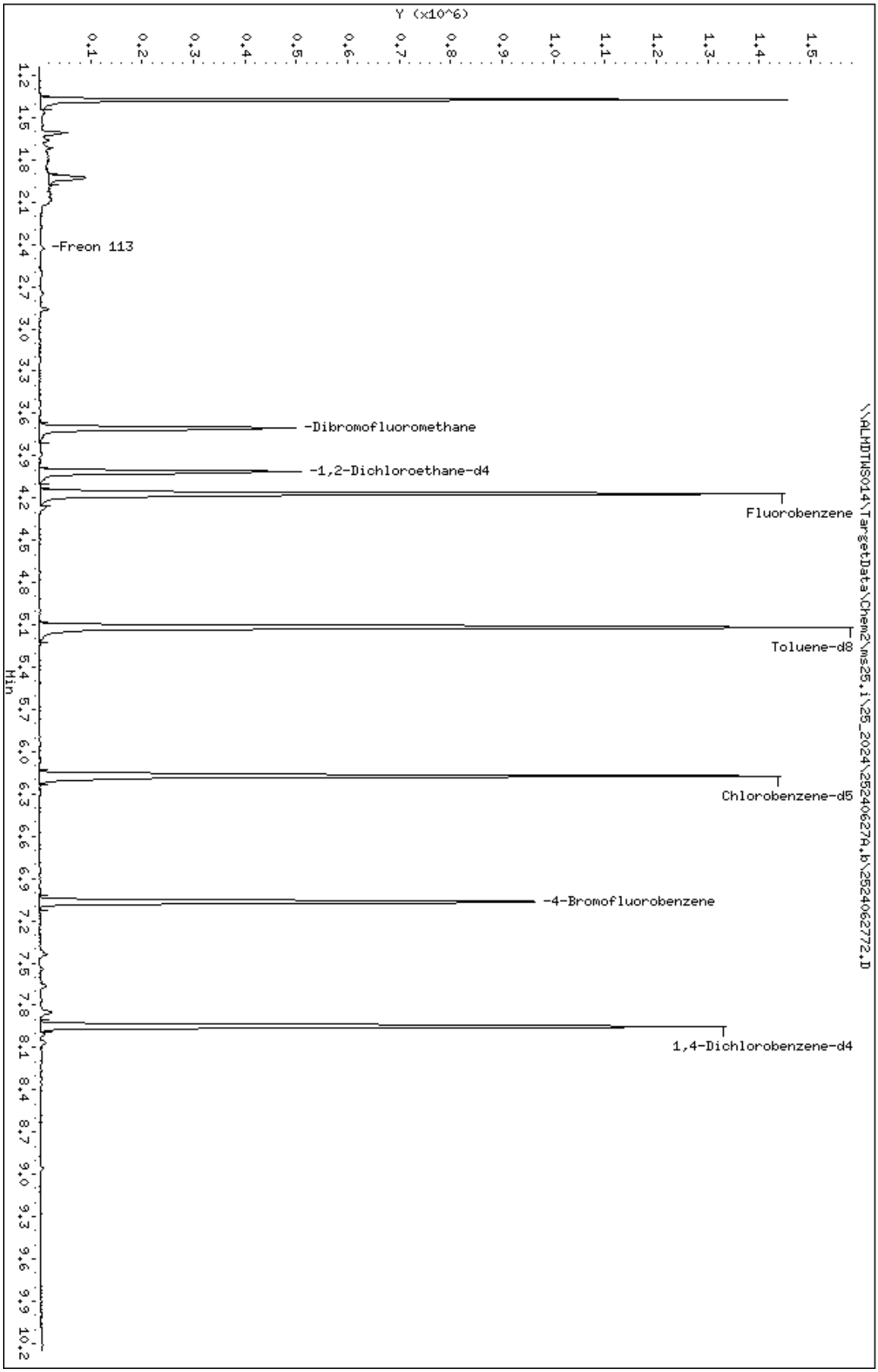
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | Compound Not Detected. | | | | | | |
| | 23 tert.- Butyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| | 24 Acetonitrile | 41 | Compound Not Detected. | | | | | | |
| | 25 Diisopropyl ether | 45 | Compound Not Detected. | | | | | | |
| | 26 Chloroprene | 53 | Compound Not Detected. | | | | | | |
| | 27 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | | |
| | 28 Acrylonitrile | 53 | Compound Not Detected. | | | | | | |
| | 30 n-Propanol | 41 | Compound Not Detected. | | | | | | |
| | 29 Ethyl tert-butyl ether | 59 | Compound Not Detected. | | | | | | |
| | 31 Vinyl acetate | 86 | Compound Not Detected. | | | | | | |
| | 32 cis-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| | 33 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | | |
| M | 100 1,2-Dichloroethene, Total | 61 | Compound Not Detected. | | | | | | |
| | 34 Bromochloromethane | 128 | Compound Not Detected. | | | | | | |
| | 35 Cyclohexane | 84 | Compound Not Detected. | | | | | | |
| | 36 Chloroform | 83 | Compound Not Detected. | | | | | | |
| | 37 Ethyl acetate | 43 | Compound Not Detected. | | | | | | |
| | 38 Methyl acrylate | 55 | Compound Not Detected. | | | | | | |
| | 39 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | | |
| | 40 Tetrahydrofuran | 42 | Compound Not Detected. | | | | | | |
| $ | 41 Dibromofluoromethane | 113 | 3.706 | 3.707 | (0.889) | 237133 | 28.6620 | 28.6620 | |
| | 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | | |
| | 43 2-Butanone | 72 | Compound Not Detected. | | | | | | |
| | 44 1,1-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 45 1-Chlorobutane | 41 | Compound Not Detected. | | | | | | |
| | 46 Heptane | 71 | Compound Not Detected. | | | | | | |
| | 48 Propionitrile | 54 | Compound Not Detected. | | | | | | |
| | 47 Benzene | 78 | Compound Not Detected. | | | | | | |
| | 49 Methacrylonitrile | 67 | Compound Not Detected. | | | | | | |
| | 50 tert-amyl methyl Ether | 73 | Compound Not Detected. | | | | | | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.012 | 4.012 | (0.962) | 275743 | 31.6167 | 31.6167 | |
| | 54 Isobutyl alcohol | 42 | Compound Not Detected. | | | | | | |
| | 52 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | | |
| | 53 tert-Amyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| * | 55 Fluorobenzene | 96 | 4.170 | 4.171 | (1.000) | 1048553 | 30.0000 | | |
| | 56 Diisobutylene | 57 | Compound Not Detected. | | | | | | |
| | 57 Trichloroethene | 95 | Compound Not Detected. | | | | | | |
| | 58 Methyl cyclohexane | 83 | Compound Not Detected. | | | | | | |
| | 59 tert-Amyl Ethylether | 59 | Compound Not Detected. | | | | | | |
| | 60 Dibromomethane | 93 | Compound Not Detected. | | | | | | |
| | 61 1,2-Dichloropropane | 63 | Compound Not Detected. | | | | | | |
| | 62 Bromodichloromethane | 83 | Compound Not Detected. | | | | | | |
| | 63 Methyl methacrylate | 41 | Compound Not Detected. | | | | | | |
| | 65 2-Chloroethylvinyl ether | 63 | Compound Not Detected. | | | | | | |
| | 66 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 67 Octane | 85 | Compound Not Detected. | | | | | | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 914460 | 29.6313 | 29.6313 | |
| | 69 Toluene | 92 | Compound Not Detected. | | | | | | |
| | 70 Chloroacetonitrile | 75 | Compound Not Detected. | | | | | | |
| | 71 2-Nitropropane | 41 | Compound Not Detected. | | | | | | |
| | 72 1,1-Dichloro-2-propanone | 63 | Compound Not Detected. | | | | | | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | Compound Not Detected. | | | | | | |
| | 75 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 74 Tetrachloroethene | 164 | Compound Not Detected. | | | | | | |

Data File: 2524062772.D Page 3
Report Date: 28-Jun-2024 15:29

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl methacrylate | 69 | Compound Not Detected. | | | | | | |
| | 77 1,1,2-Trichloroethane | 83 | Compound Not Detected. | | | | | | |
| | 78 Chlorodibromomethane | 129 | Compound Not Detected. | | | | | | |
| | 79 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | | |
| | 80 1,2-Dibromoethane | 107 | Compound Not Detected. | | | | | | |
| | 81 2-Hexanone | 43 | Compound Not Detected. | | | | | | |
| | 82 1-Chlorohexane | 91 | Compound Not Detected. | | | | | | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.173 | (1.000) | 389797 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | Compound Not Detected. | | | | | | |
| | 84 Chlorobenzene | 112 | Compound Not Detected. | | | | | | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | | |
| | 87 mp-Xylene | 106 | Compound Not Detected. | | | | | | |
| M | 120 1,3-Dichloropropene, Total | 75 | Compound Not Detected. | | | | | | |
| | 88 o-Xylene | 106 | Compound Not Detected. | | | | | | |
| | 89 Styrene | 104 | Compound Not Detected. | | | | | | |
| | 90 Bromoform | 173 | Compound Not Detected. | | | | | | |
| | 91 Isopropylbenzene | 105 | Compound Not Detected. | | | | | | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 247960 | 27.0647 | 27.0647 | |
| M | 121 TOTAL XYLENES | 106 | Compound Not Detected. | | | | | | |
| | 94 n-Propylbenzene | 120 | Compound Not Detected. | | | | | | |
| | 93 Bromobenzene | 156 | Compound Not Detected. | | | | | | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | | |
| | 97 1,3,5-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 96 o-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 98 1,2,3-Trichloropropane | 110 | Compound Not Detected. | | | | | | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | Compound Not Detected. | | | | | | |
| | 101 p-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 102 tert-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 103 Pentachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 104 1,2,4-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 105 sec-Butylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 106 p-Isopropyltoluene | 134 | Compound Not Detected. | | | | | | |
| | 107 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 331170 | 30.0000 | | (Q) |
| | 109 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 111 n-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 110 Benzyl Chloride | 126 | Compound Not Detected. | | | | | | |
| | 112 Hexachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 113 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | Compound Not Detected. | | | | | | |
| | 115 Nitrobenzene | 77 | Compound Not Detected. | | | | | | |
| | 116 Hexachlorobutadiene | 225 | Compound Not Detected. | | | | | | |
| | 117 1,2,4-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |
| | 118 Naphthalene | 128 | Compound Not Detected. | | | | | | |
| | 119 1,2,3-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.


Data File: \\ALHDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25240627?2.D
Date : 28-JUN-2024 02:59
Client ID: HS24061196-07
Sample Info: 33660270071;11;;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25.i
Operator: BST
Column diameter: 0.25
Page 1
Y (x10^6)
-Freon 113
-Dibromofluoromethane
-1,2-Dichloroethane-d4
Fluorobenzene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\ALHDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25240627?2.D
Min

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062772.D Page 2

Date : 28-JUN-2024 02:59

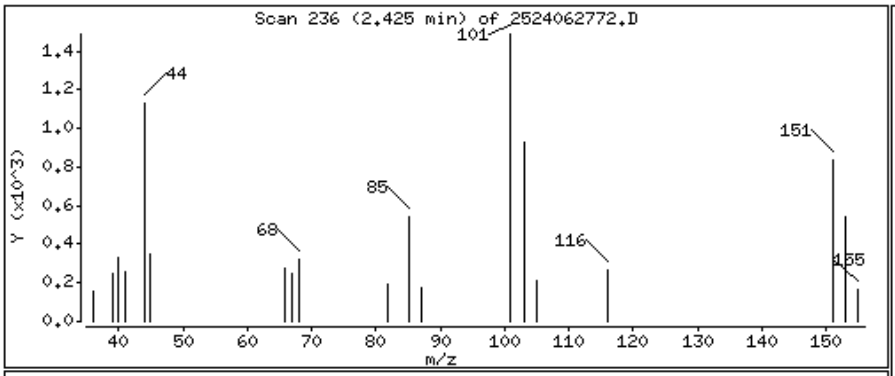
Client ID: HS24061196-07 Instrument: ms25.i

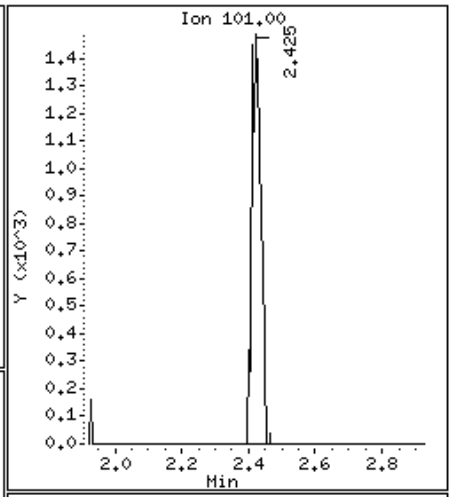
Sample Info: 3366027007;;1;;;;;

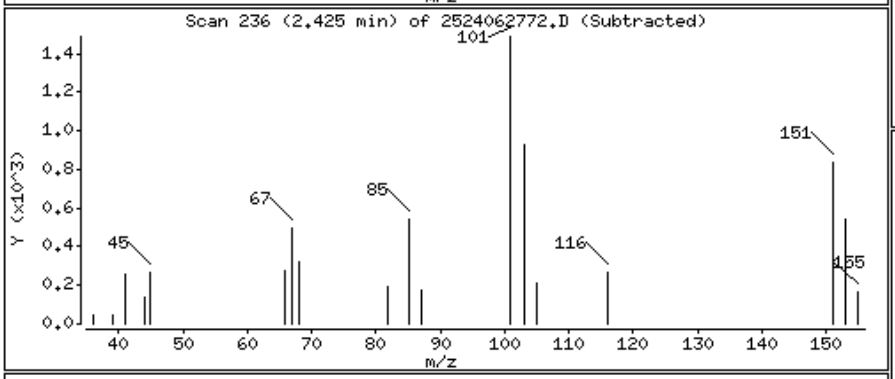
Purge Volume: 5.0 Operator: BST

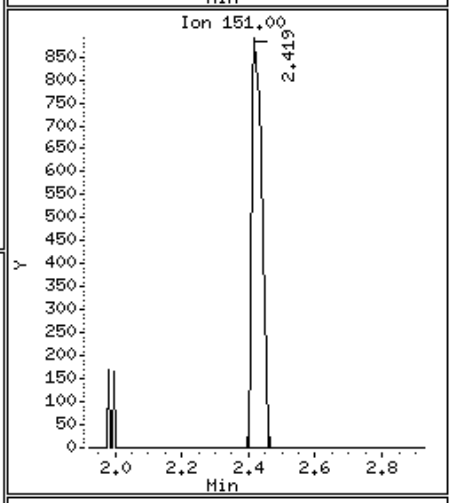
Column phase: DB-VRX Column diameter: 0.25

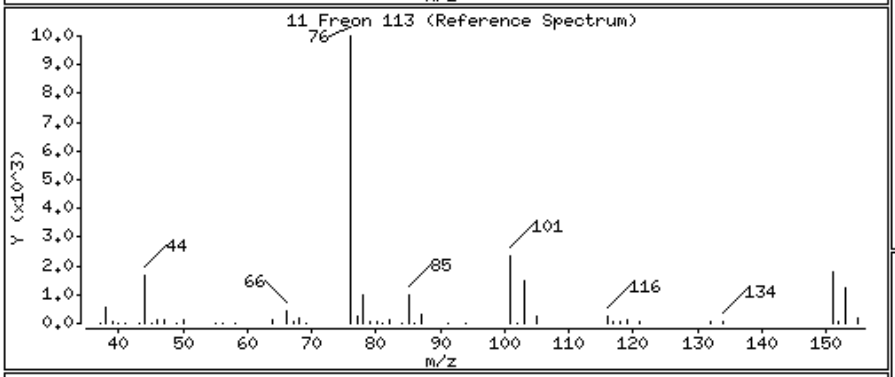
11 Freon 113 Concentration: 0.349690 ug/L

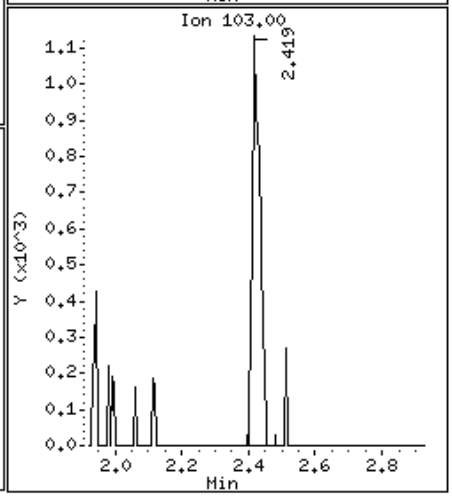


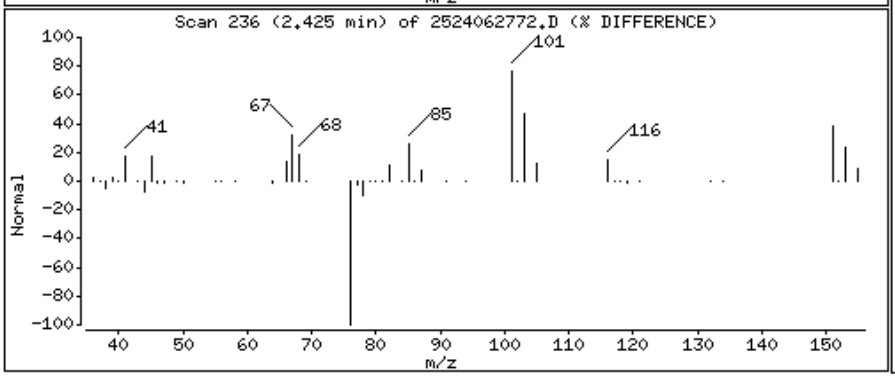



Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062772.D
Inj Date  : 28-JUN-2024 02:59
InstruID  : ms25.i
LabSampID : 3366027007

NO MANUAL INTEGRATIONS

# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:29
Client ID: HS24061196-07
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 28-JUN-2024 02:59
Operator: BST

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1,2-Dichloroethane
Heptane
2-Nitropropane
Chloroethane
Ethyl methacrylate
Methacrylonitrile
Trichloroethene

Data File: 2524062773.D Page 1
Report Date: 28-Jun-2024 15:30

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062773.D
Lab Smp Id: 3366027008 Client Smp ID: HS24061196-08
Inj Date : 28-JUN-2024 03:19
Operator : BST Inst ID: ms25.i
Smp Info : 3366027008;;1;;;;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | | |
| 2 Chloromethane | 50 | Compound Not Detected. | | | | | | |
| 3 Vinyl Chloride | 62 | Compound Not Detected. | | | | | | |
| 4 Bromomethane | 94 | Compound Not Detected. | | | | | | |
| 5 Chloroethane | 64 | Compound Not Detected. | | | | | | |
| 6 Pentane | 41 | Compound Not Detected. | | | | | | |
| 7 Trichlorofluoromethane | 101 | Compound Not Detected. | | | | | | |
| 8 Dichlorofluoromethane | 67 | Compound Not Detected. | | | | | | |
| 9 Ethyl Ether | 74 | Compound Not Detected. | | | | | | |
| 10 1,1-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 12 Carbon Disulfide | 76 | Compound Not Detected. | | | | | | |
| 11 Freon 113 | 101 | 2.419 | 2.424 | (0.580) | 1900 | 0.28339 | 0.283389(a) | |
| 13 Iodomethane | 127 | Compound Not Detected. | | | | | | |
| 14 Acrolein | 56 | Compound Not Detected. | | | | | | |
| 16 3-Chloro-1-propene | 41 | Compound Not Detected. | | | | | | |
| 15 Isopropyl Alcohol | 45 | Compound Not Detected. | | | | | | |
| 17 Methylene Chloride | 84 | Compound Not Detected. | | | | | | |
| 18 Acetone | 58 | Compound Not Detected. | | | | | | |
| 19 Methyl acetate | 74 | Compound Not Detected. | | | | | | |
| 20 trans-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 21 Hexane | 57 | Compound Not Detected. | | | | | | |

Data File: 2524062773.D Page 2
Report Date: 28-Jun-2024 15:30

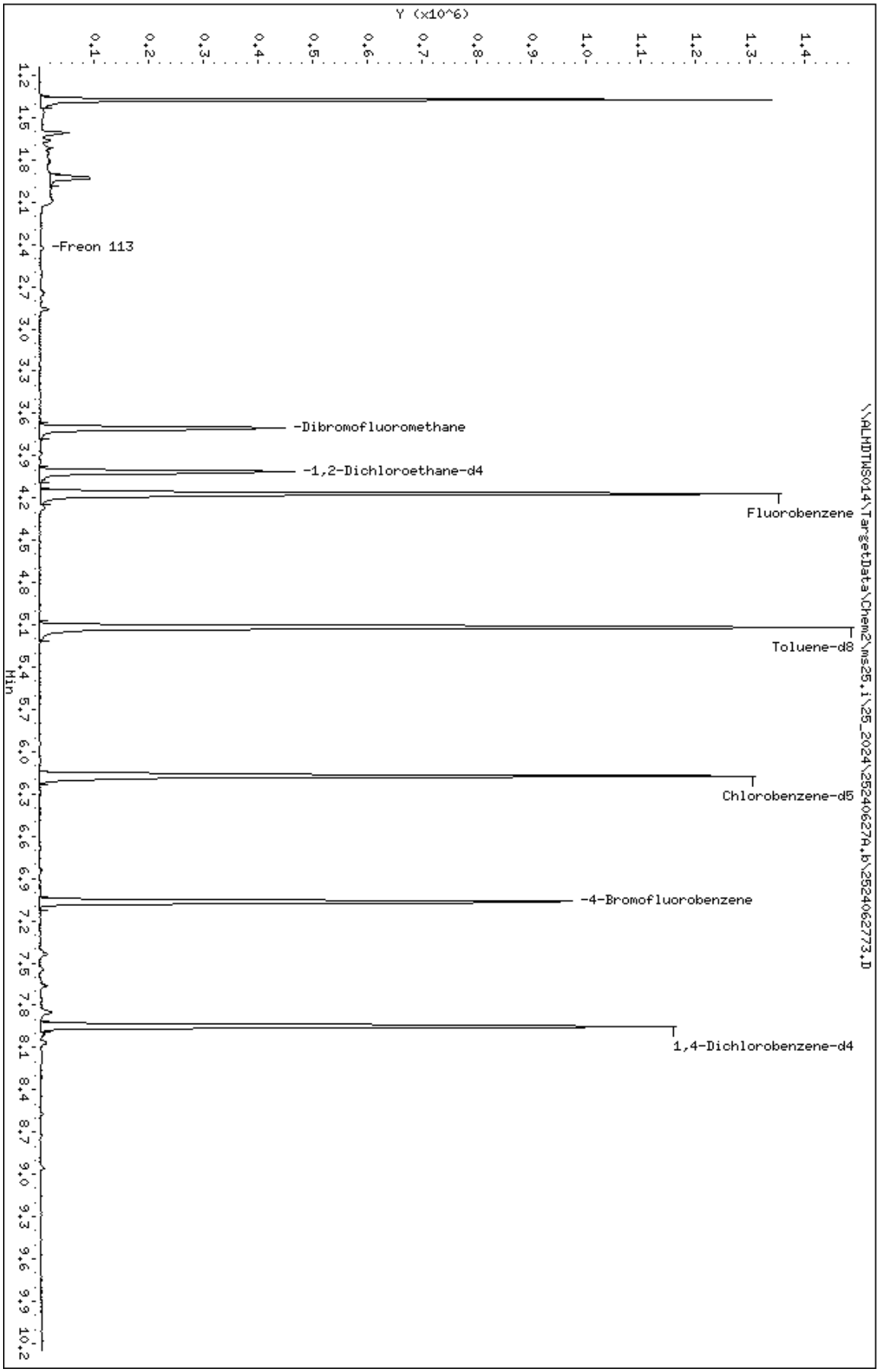
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | Compound Not Detected. | | | | | | |
| | 23 tert.- Butyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| | 24 Acetonitrile | 41 | Compound Not Detected. | | | | | | |
| | 25 Diisopropyl ether | 45 | Compound Not Detected. | | | | | | |
| | 26 Chloroprene | 53 | Compound Not Detected. | | | | | | |
| | 27 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | | |
| | 28 Acrylonitrile | 53 | Compound Not Detected. | | | | | | |
| | 30 n-Propanol | 41 | Compound Not Detected. | | | | | | |
| | 29 Ethyl tert-butyl ether | 59 | Compound Not Detected. | | | | | | |
| | 31 Vinyl acetate | 86 | Compound Not Detected. | | | | | | |
| | 32 cis-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| | 33 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | | |
| M | 100 1,2-Dichloroethene, Total | 61 | Compound Not Detected. | | | | | | |
| | 34 Bromochloromethane | 128 | Compound Not Detected. | | | | | | |
| | 35 Cyclohexane | 84 | Compound Not Detected. | | | | | | |
| | 36 Chloroform | 83 | Compound Not Detected. | | | | | | |
| | 37 Ethyl acetate | 43 | Compound Not Detected. | | | | | | |
| | 38 Methyl acrylate | 55 | Compound Not Detected. | | | | | | |
| | 39 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | | |
| | 40 Tetrahydrofuran | 42 | Compound Not Detected. | | | | | | |
| $ | 41 Dibromofluoromethane | 113 | 3.707 | 3.707 | (0.889) | 222661 | 28.4795 | 28.4795 | |
| | 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | | |
| | 43 2-Butanone | 72 | Compound Not Detected. | | | | | | |
| | 44 1,1-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 45 1-Chlorobutane | 41 | Compound Not Detected. | | | | | | |
| | 46 Heptane | 71 | Compound Not Detected. | | | | | | |
| | 48 Propionitrile | 54 | Compound Not Detected. | | | | | | |
| | 47 Benzene | 78 | Compound Not Detected. | | | | | | |
| | 49 Methacrylonitrile | 67 | Compound Not Detected. | | | | | | |
| | 50 tert-amyl methyl Ether | 73 | Compound Not Detected. | | | | | | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.012 | 4.012 | (0.962) | 254562 | 30.8872 | 30.8872 | |
| | 54 Isobutyl alcohol | 42 | Compound Not Detected. | | | | | | |
| | 52 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | | |
| | 53 tert-Amyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| * | 55 Fluorobenzene | 96 | 4.170 | 4.171 | (1.000) | 990871 | 30.0000 | | |
| | 56 Diisobutylene | 57 | Compound Not Detected. | | | | | | |
| | 57 Trichloroethene | 95 | Compound Not Detected. | | | | | | |
| | 58 Methyl cyclohexane | 83 | Compound Not Detected. | | | | | | |
| | 59 tert-Amyl Ethylether | 59 | Compound Not Detected. | | | | | | |
| | 60 Dibromomethane | 93 | Compound Not Detected. | | | | | | |
| | 61 1,2-Dichloropropane | 63 | Compound Not Detected. | | | | | | |
| | 62 Bromodichloromethane | 83 | Compound Not Detected. | | | | | | |
| | 63 Methyl methacrylate | 41 | Compound Not Detected. | | | | | | |
| | 65 2-Chloroethylvinyl ether | 63 | Compound Not Detected. | | | | | | |
| | 66 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 67 Octane | 85 | Compound Not Detected. | | | | | | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 862610 | 30.4908 | 30.4908 | |
| | 69 Toluene | 92 | Compound Not Detected. | | | | | | |
| | 70 Chloroacetonitrile | 75 | Compound Not Detected. | | | | | | |
| | 71 2-Nitropropane | 41 | Compound Not Detected. | | | | | | |
| | 72 1,1-Dichloro-2-propanone | 63 | Compound Not Detected. | | | | | | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | Compound Not Detected. | | | | | | |
| | 75 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 74 Tetrachloroethene | 164 | Compound Not Detected. | | | | | | |

Data File: 2524062773.D Page 3
Report Date: 28-Jun-2024 15:30

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl methacrylate | 69 | Compound Not Detected. | | | | | | |
| | 77 1,1,2-Trichloroethane | 83 | Compound Not Detected. | | | | | | |
| | 78 Chlorodibromomethane | 129 | Compound Not Detected. | | | | | | |
| | 79 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | | |
| | 80 1,2-Dibromoethane | 107 | Compound Not Detected. | | | | | | |
| | 81 2-Hexanone | 43 | Compound Not Detected. | | | | | | |
| | 82 1-Chlorohexane | 91 | Compound Not Detected. | | | | | | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.173 | (1.000) | 357330 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | Compound Not Detected. | | | | | | |
| | 84 Chlorobenzene | 112 | Compound Not Detected. | | | | | | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | | |
| | 87 mp-Xylene | 106 | Compound Not Detected. | | | | | | |
| M | 120 1,3-Dichloropropene, Total | 75 | Compound Not Detected. | | | | | | |
| | 88 o-Xylene | 106 | Compound Not Detected. | | | | | | |
| | 89 Styrene | 104 | Compound Not Detected. | | | | | | |
| | 90 Bromoform | 173 | Compound Not Detected. | | | | | | |
| | 91 Isopropylbenzene | 105 | Compound Not Detected. | | | | | | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 250759 | 30.8130 | 30.8130 | |
| M | 121 TOTAL XYLENES | 106 | Compound Not Detected. | | | | | | |
| | 94 n-Propylbenzene | 120 | Compound Not Detected. | | | | | | |
| | 93 Bromobenzene | 156 | Compound Not Detected. | | | | | | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | | |
| | 97 1,3,5-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 96 o-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 98 1,2,3-Trichloropropane | 110 | Compound Not Detected. | | | | | | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | Compound Not Detected. | | | | | | |
| | 101 p-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 102 tert-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 103 Pentachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 104 1,2,4-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 105 sec-Butylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 106 p-Isopropyltoluene | 134 | Compound Not Detected. | | | | | | |
| | 107 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 294168 | 30.0000 | (Q) | |
| | 109 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 111 n-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 110 Benzyl Chloride | 126 | Compound Not Detected. | | | | | | |
| | 112 Hexachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 113 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | Compound Not Detected. | | | | | | |
| | 115 Nitrobenzene | 77 | Compound Not Detected. | | | | | | |
| | 116 Hexachlorobutadiene | 225 | Compound Not Detected. | | | | | | |
| | 117 1,2,4-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |
| | 118 Naphthalene | 128 | Compound Not Detected. | | | | | | |
| | 119 1,2,3-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.


Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\252406270A.b\2524062773.D
Date : 28-JUN-2024 03:19
Client ID: HS24061196-08
Sample Info: 3366027008;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25.i
Operator: BST
Column diameter: 0.25
Page 1
Y (x10^6)
-Freon 113
-Dibromofluoromethane
-1,2-Dichloroethane-d4
Fluorobenzene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\252406270A.b\2524062773.D
Min

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062773.D Page 2

Date : 28-JUN-2024 03:19

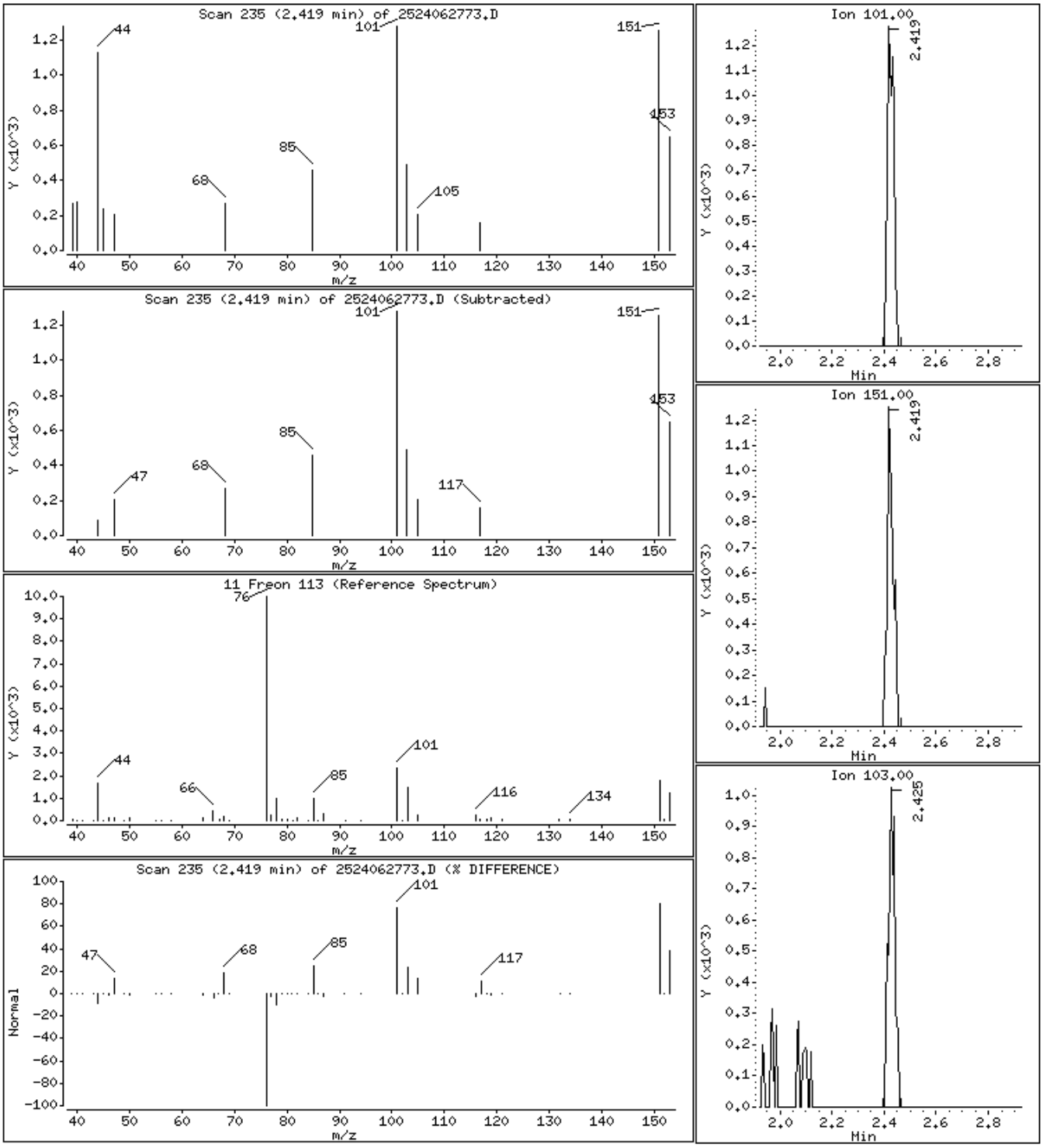
Client ID: HS24061196-08 Instrument: ms25.i

Sample Info: 3366027008;;1;;;;;

Purge Volume: 5.0 Operator: BST

Column phase: DB-VRX Column diameter: 0.25

11 Freon 113 Concentration: 0.283389 ug/L



Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062773.D
Inj Date  : 28-JUN-2024 03:19
InstruID  : ms25.i
LabSampID : 3366027008

NO MANUAL INTEGRATIONS

# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:30
Client ID: HS24061196-08
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 28-JUN-2024 03:19
Operator: BST

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1,2-Dichloroethane
Heptane
2-Nitropropane
Chloroethane
Ethyl methacrylate
Methacrylonitrile
Trichloroethene

Data File: 2524062774.D Page 1
Report Date: 28-Jun-2024 15:31

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062774.D
Lab Smp Id: 3366027009 Client Smp ID: HS24061196-09
Inj Date : 28-JUN-2024 03:40
Operator : BST Inst ID: ms25.i
Smp Info : 3366027009;;1;;;;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | | |
| 2 Chloromethane | 50 | Compound Not Detected. | | | | | | |
| 3 Vinyl Chloride | 62 | Compound Not Detected. | | | | | | |
| 4 Bromomethane | 94 | Compound Not Detected. | | | | | | |
| 5 Chloroethane | 64 | Compound Not Detected. | | | | | | |
| 6 Pentane | 41 | Compound Not Detected. | | | | | | |
| 7 Trichlorofluoromethane | 101 | Compound Not Detected. | | | | | | |
| 8 Dichlorofluoromethane | 67 | Compound Not Detected. | | | | | | |
| 9 Ethyl Ether | 74 | Compound Not Detected. | | | | | | |
| 10 1,1-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 12 Carbon Disulfide | 76 | Compound Not Detected. | | | | | | |
| 11 Freon 113 | 101 | 2.424 | 2.424 | (0.581) | 2039 | 0.30191 | 0.301907(a) | |
| 13 Iodomethane | 127 | Compound Not Detected. | | | | | | |
| 14 Acrolein | 56 | Compound Not Detected. | | | | | | |
| 16 3-Chloro-1-propene | 41 | Compound Not Detected. | | | | | | |
| 15 Isopropyl Alcohol | 45 | Compound Not Detected. | | | | | | |
| 17 Methylene Chloride | 84 | Compound Not Detected. | | | | | | |
| 18 Acetone | 58 | Compound Not Detected. | | | | | | |
| 19 Methyl acetate | 74 | Compound Not Detected. | | | | | | |
| 20 trans-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 21 Hexane | 57 | Compound Not Detected. | | | | | | |

Data File: 2524062774.D Page 2
Report Date: 28-Jun-2024 15:31

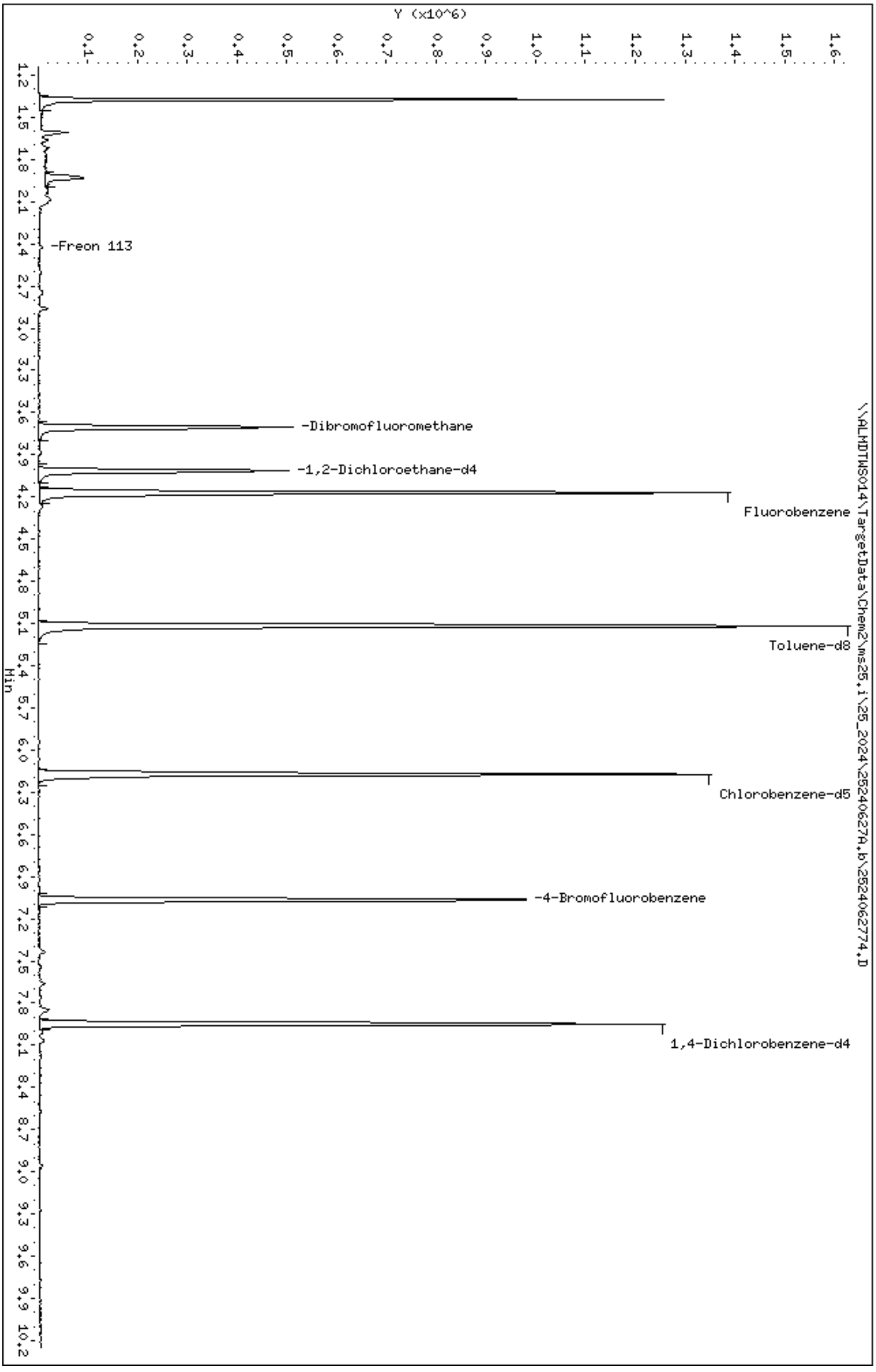
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | Compound Not Detected. | | | | | | |
| | 23 tert.- Butyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| | 24 Acetonitrile | 41 | Compound Not Detected. | | | | | | |
| | 25 Diisopropyl ether | 45 | Compound Not Detected. | | | | | | |
| | 26 Chloroprene | 53 | Compound Not Detected. | | | | | | |
| | 27 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | | |
| | 28 Acrylonitrile | 53 | Compound Not Detected. | | | | | | |
| | 30 n-Propanol | 41 | Compound Not Detected. | | | | | | |
| | 29 Ethyl tert-butyl ether | 59 | Compound Not Detected. | | | | | | |
| | 31 Vinyl acetate | 86 | Compound Not Detected. | | | | | | |
| | 32 cis-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| | 33 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | | |
| M | 100 1,2-Dichloroethene, Total | 61 | Compound Not Detected. | | | | | | |
| | 34 Bromochloromethane | 128 | Compound Not Detected. | | | | | | |
| | 35 Cyclohexane | 84 | Compound Not Detected. | | | | | | |
| | 36 Chloroform | 83 | Compound Not Detected. | | | | | | |
| | 37 Ethyl acetate | 43 | Compound Not Detected. | | | | | | |
| | 38 Methyl acrylate | 55 | Compound Not Detected. | | | | | | |
| | 39 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | | |
| | 40 Tetrahydrofuran | 42 | Compound Not Detected. | | | | | | |
| $ | 41 Dibromofluoromethane | 113 | 3.707 | 3.707 | (0.889) | 232631 | 29.5381 | 29.5381 | |
| | 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | | |
| | 43 2-Butanone | 72 | Compound Not Detected. | | | | | | |
| | 44 1,1-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 45 1-Chlorobutane | 41 | Compound Not Detected. | | | | | | |
| | 46 Heptane | 71 | Compound Not Detected. | | | | | | |
| | 48 Propionitrile | 54 | Compound Not Detected. | | | | | | |
| | 47 Benzene | 78 | Compound Not Detected. | | | | | | |
| | 49 Methacrylonitrile | 67 | Compound Not Detected. | | | | | | |
| | 50 tert-amyl methyl Ether | 73 | Compound Not Detected. | | | | | | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.018 | 4.012 | (0.963) | 269812 | 32.4992 | 32.4992 | |
| | 54 Isobutyl alcohol | 42 | Compound Not Detected. | | | | | | |
| | 52 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | | |
| | 53 tert-Amyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| * | 55 Fluorobenzene | 96 | 4.170 | 4.171 | (1.000) | 998138 | 30.0000 | | |
| | 56 Diisobutylene | 57 | Compound Not Detected. | | | | | | |
| | 57 Trichloroethene | 95 | Compound Not Detected. | | | | | | |
| | 58 Methyl cyclohexane | 83 | Compound Not Detected. | | | | | | |
| | 59 tert-Amyl Ethylether | 59 | Compound Not Detected. | | | | | | |
| | 60 Dibromomethane | 93 | Compound Not Detected. | | | | | | |
| | 61 1,2-Dichloropropane | 63 | Compound Not Detected. | | | | | | |
| | 62 Bromodichloromethane | 83 | Compound Not Detected. | | | | | | |
| | 63 Methyl methacrylate | 41 | Compound Not Detected. | | | | | | |
| | 65 2-Chloroethylvinyl ether | 63 | Compound Not Detected. | | | | | | |
| | 66 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 67 Octane | 85 | Compound Not Detected. | | | | | | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 943769 | 32.4879 | 32.4879 | |
| | 69 Toluene | 92 | Compound Not Detected. | | | | | | |
| | 70 Chloroacetonitrile | 75 | Compound Not Detected. | | | | | | |
| | 71 2-Nitropropane | 41 | Compound Not Detected. | | | | | | |
| | 72 1,1-Dichloro-2-propanone | 63 | Compound Not Detected. | | | | | | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | Compound Not Detected. | | | | | | |
| | 75 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 74 Tetrachloroethene | 164 | Compound Not Detected. | | | | | | |

Data File: 2524062774.D Page 3
Report Date: 28-Jun-2024 15:31

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl methacrylate | 69 | Compound Not Detected. | | | | | | |
| | 77 1,1,2-Trichloroethane | 83 | Compound Not Detected. | | | | | | |
| | 78 Chlorodibromomethane | 129 | Compound Not Detected. | | | | | | |
| | 79 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | | |
| | 80 1,2-Dibromoethane | 107 | Compound Not Detected. | | | | | | |
| | 81 2-Hexanone | 43 | Compound Not Detected. | | | | | | |
| | 82 1-Chlorohexane | 91 | Compound Not Detected. | | | | | | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.173 | (1.000) | 366918 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | Compound Not Detected. | | | | | | |
| | 84 Chlorobenzene | 112 | Compound Not Detected. | | | | | | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | | |
| | 87 mp-Xylene | 106 | Compound Not Detected. | | | | | | |
| M | 120 1,3-Dichloropropene, Total | 75 | Compound Not Detected. | | | | | | |
| | 88 o-Xylene | 106 | Compound Not Detected. | | | | | | |
| | 89 Styrene | 104 | Compound Not Detected. | | | | | | |
| | 90 Bromoform | 173 | Compound Not Detected. | | | | | | |
| | 91 Isopropylbenzene | 105 | Compound Not Detected. | | | | | | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 257814 | 30.1498 | 30.1498 | |
| M | 121 TOTAL XYLENES | 106 | Compound Not Detected. | | | | | | |
| | 94 n-Propylbenzene | 120 | Compound Not Detected. | | | | | | |
| | 93 Bromobenzene | 156 | Compound Not Detected. | | | | | | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | | |
| | 97 1,3,5-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 96 o-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 98 1,2,3-Trichloropropane | 110 | Compound Not Detected. | | | | | | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | Compound Not Detected. | | | | | | |
| | 101 p-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 102 tert-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 103 Pentachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 104 1,2,4-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 105 sec-Butylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 106 p-Isopropyltoluene | 134 | Compound Not Detected. | | | | | | |
| | 107 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 309097 | 30.0000 | | (Q) |
| | 109 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 111 n-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 110 Benzyl Chloride | 126 | Compound Not Detected. | | | | | | |
| | 112 Hexachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 113 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | Compound Not Detected. | | | | | | |
| | 115 Nitrobenzene | 77 | Compound Not Detected. | | | | | | |
| | 116 Hexachlorobutadiene | 225 | Compound Not Detected. | | | | | | |
| | 117 1,2,4-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |
| | 118 Naphthalene | 128 | Compound Not Detected. | | | | | | |
| | 119 1,2,3-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.


Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25240627#4.D
Date : 28-JUN-2024 03:40
Client ID: HS24061196-09
Sample Info: 336602700911111111
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25.i
Operator: BST
Column diameter: 0.25
Page 1
Y (x10^6)
Min
-Freon 113
-Dibromofluoromethane
-1,2-Dichloroethane-d4
Fluorobenzene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25240627#4.D

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062774.D Page 2

Date : 28-JUN-2024 03:40

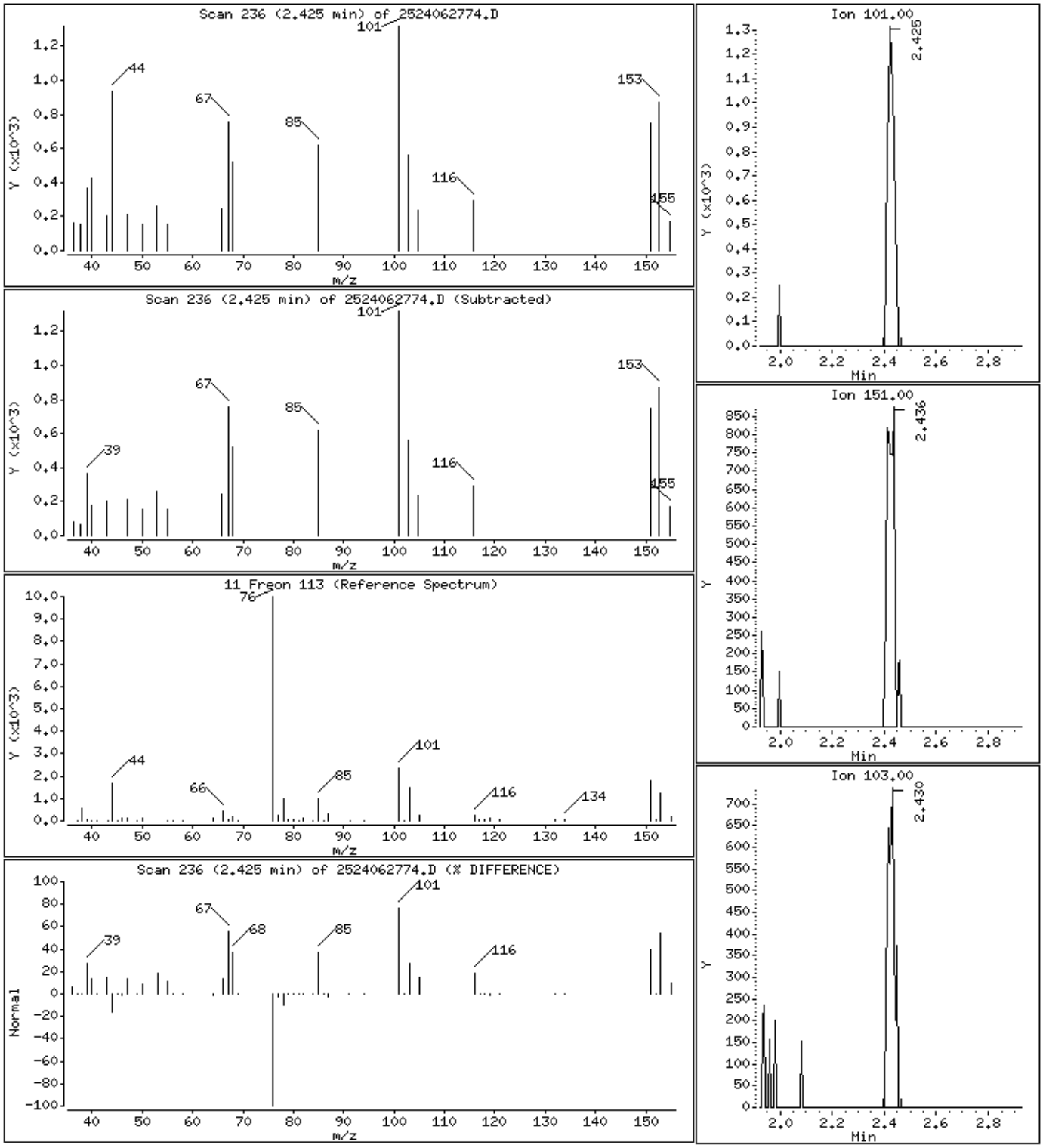
Client ID: HS24061196-09 Instrument: ms25.i

Sample Info: 3366027009;;1;;;;;

Purge Volume: 5.0 Operator: BST

Column phase: DB-VRX Column diameter: 0.25

11 Freon 113 Concentration: 0.301907 ug/L



Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062774.D
Inj Date  : 28-JUN-2024 03:40
InstruID  : ms25.i
LabSampID : 3366027009

NO MANUAL INTEGRATIONS

# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:31
Client ID: HS24061196-09
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 28-JUN-2024 03:40
Operator: BST

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1,2-Dichloroethane
Heptane
Chloroethane
Ethyl methacrylate
2-Nitropropane

Data File: 2524062779.D Page 1
Report Date: 28-Jun-2024 15:35

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062779.D
Lab Smp Id: 1801
Inj Date : 28-JUN-2024 05:22
Operator : BST Inst ID: ms25.i
Smp Info : 1801;;1;2;4;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 28 QC Sample: ENDCCV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.497 | 1.497 | (0.359) | 399271 | 33.4229 | 33.4229 | |
| 2 Chloromethane | 50 | 1.644 | 1.644 | (0.394) | 489400 | 46.9037 | 46.9037 | |
| 3 Vinyl Chloride | 62 | 1.704 | 1.704 | (0.409) | 545002 | 40.3566 | 40.3566 | |
| 4 Bromomethane | 94 | 1.922 | 1.923 | (0.461) | 331395 | 51.2788 | 51.2788 | |
| 5 Chloroethane | 64 | 2.004 | 2.004 | (0.481) | 404867 | 44.3488 | 44.3488 | |
| 6 Pentane | 41 | 2.091 | 2.092 | (0.502) | 266947 | 31.3293 | 31.3293 | |
| 7 Trichlorofluoromethane | 101 | 2.097 | 2.097 | (0.503) | 659824 | 35.6702 | 35.6702 | |
| 8 Dichlorofluoromethane | 67 | 2.124 | 2.124 | (0.509) | 816394 | 47.6978 | 47.6978 | |
| 9 Ethyl Ether | 74 | 2.277 | 2.277 | (0.546) | 256522 | 49.2850 | 49.2850 | |
| 10 1,1-Dichloroethene | 61 | 2.413 | 2.414 | (0.579) | 458600 | 44.1549 | 44.1549 | |
| 12 Carbon Disulfide | 76 | 2.446 | 2.446 | (0.587) | 980778 | 43.7751 | 43.7751 | |
| 11 Freon 113 | 101 | 2.424 | 2.424 | (0.581) | 279616 | 38.2764 | 38.2764 | |
| 13 Iodomethane | 127 | 2.506 | 2.506 | (0.601) | 180760 | 44.9450 | 44.9450 | |
| 14 Acrolein | 56 | 2.599 | 2.599 | (0.623) | 393470 | 234.868 | 234.868 | |
| 16 3-Chloro-1-propene | 41 | 2.675 | 2.681 | (0.642) | 416718 | 46.0586 | 46.0586 | |
| 15 Isopropyl Alcohol | 45 | 2.653 | 2.654 | (0.636) | 128973 | 235.337 | 235.337 | |
| 17 Methylene Chloride | 84 | 2.741 | 2.741 | (0.657) | 409617 | 48.2819 | 48.2819 | |
| 18 Acetone | 58 | 2.757 | 2.752 | (0.661) | 223068 | 237.319 | 237.319 | |
| 19 Methyl acetate | 74 | 2.812 | 2.812 | (0.674) | 92678 | 47.9832 | 47.9832 | |
| 20 trans-1,2-Dichloroethene | 61 | 2.828 | 2.828 | (0.678) | 478481 | 47.0364 | 47.0364 | |
| 21 Hexane | 57 | 2.866 | 2.866 | (0.687) | 628457 | 37.0647 | 37.0647 | |

Data File: 2524062779.D
Report Date: 28-Jun-2024 15:35



| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 22 Methyl t-Butyl Ether | 73 | 2.872 | 2.872 | (0.689) | 1208890 | 46.3389 | 46.3389 | |
| 23 tert.- Butyl Alcohol | 59 | 2.894 | 2.894 | (0.694) | 233217 | 248.542 | 248.542 | |
| 24 Acetonitrile | 41 | 3.019 | 3.019 | (0.724) | 278413 | 264.884 | 264.884 | |
| 25 Diisopropyl ether | 45 | 3.063 | 3.063 | (0.734) | 1159940 | 51.3780 | 51.3780 | |
| 26 Chloroprene | 53 | 3.155 | 3.156 | (0.757) | 556285 | 48.6007 | 48.6007 | |
| 27 1,1-Dichloroethane | 63 | 3.166 | 3.167 | (0.759) | 688968 | 49.7128 | 49.7128 | |
| 28 Acrylonitrile | 53 | 3.188 | 3.188 | (0.765) | 935240 | 259.114 | 259.114 | |
| 30 n-Propanol | 41 | 3.265 | 3.265 | (0.783) | 214518 | 482.303 | 482.303(Q) | |
| 29 Ethyl tert-butyl ether | 59 | 3.265 | 3.265 | (0.783) | 1237969 | 51.6287 | 51.6287 | |
| 31 Vinyl acetate | 86 | 3.275 | 3.276 | (0.785) | 100433 | 42.5134 | 42.5134(Q) | |
| 32 cis-1,2-Dichloroethene | 61 | 3.461 | 3.461 | (0.830) | 515059 | 49.9356 | 49.9356 | |
| 33 2,2-Dichloropropane | 77 | 3.526 | 3.527 | (0.846) | 474473 | 42.9554 | 42.9554 | |
| M 100 1,2-Dichloroethene, Total | 61 | | | | 993540 | 96.9720 | 96.9720 | |
| 34 Bromochloromethane | 128 | 3.576 | 3.576 | (0.857) | 226131 | 50.8385 | 50.8385 | |
| 35 Cyclohexane | 84 | 3.586 | 3.587 | (0.860) | 482811 | 39.0114 | 39.0114 | |
| 36 Chloroform | 83 | 3.597 | 3.603 | (0.863) | 723283 | 48.3439 | 48.3439 | |
| 37 Ethyl acetate | 43 | 3.636 | 3.636 | (0.872) | 421217 | 46.9489 | 46.9489 | |
| 38 Methyl acrylate | 55 | 3.652 | 3.652 | (0.876) | 425933 | 51.2818 | 51.2818 | |
| 39 Carbon Tetrachloride | 117 | 3.701 | 3.701 | (0.887) | 414123 | 37.7360 | 37.7360(M) | MP |
| 40 Tetrahydrofuran | 42 | 3.696 | 3.696 | (0.886) | 646404 | 254.574 | 254.574 | |
| $ 41 Dibromofluoromethane | 113 | 3.701 | 3.707 | (0.887) | 255978 | 30.0490 | 30.0490 | |
| 42 1,1,1-Trichloroethane | 97 | 3.734 | 3.734 | (0.895) | 545542 | 46.8473 | 46.8473 | |
| 43 2-Butanone | 72 | 3.761 | 3.761 | (0.902) | 306494 | 249.692 | 249.692(M) | MP |
| 44 1,1-Dichloropropene | 75 | 3.799 | 3.800 | (0.911) | 490323 | 44.5131 | 44.5131 | |
| 45 1-Chlorobutane | 41 | 3.821 | 3.821 | (0.916) | 307921 | 43.4692 | 43.4692 | |
| 46 Heptane | 71 | 3.887 | 3.887 | (0.932) | 186866 | 29.1995 | 29.1995 | |
| 48 Propionitrile | 54 | 3.941 | 3.941 | (0.945) | 353204 | 258.420 | 258.420 | |
| 47 Benzene | 78 | 3.941 | 3.941 | (0.945) | 1588480 | 46.9174 | 46.9174 | |
| 49 Methacrylonitrile | 67 | 3.952 | 3.952 | (0.948) | 210264 | 51.3188 | 51.3188 | |
| 50 tert-amyl methyl Ether | 73 | 3.974 | 3.974 | (0.953) | 1165487 | 50.3532 | 50.3532 | |
| $ 51 1,2-Dichloroethane-d4 | 65 | 4.018 | 4.012 | (0.963) | 273654 | 30.4738 | 30.4738(M) | MP |
| 54 Isobutyl alcohol | 42 | 3.985 | 3.990 | (0.956) | 130364 | 624.396 | 624.396(Q) | |
| 52 1,2-Dichloroethane | 62 | 4.056 | 4.056 | (0.973) | 520545 | 48.9086 | 48.9086 | |
| 53 tert-Amyl Alcohol | 59 | 4.056 | 4.056 | (0.973) | 176634 | 245.349 | 245.349 | |
| * 55 Fluorobenzene | 96 | 4.170 | 4.171 | (1.000) | 1079637 | 30.0000 | | |
| 56 Diisobutylene | 57 | 4.176 | 4.176 | (1.001) | 723568 | 34.1506 | 34.1506 | |
| 57 Trichloroethene | 95 | 4.269 | 4.269 | (1.024) | 396984 | 46.3292 | 46.3292 | |
| 58 Methyl cyclohexane | 83 | 4.274 | 4.274 | (0.692) | 500929 | 36.1400 | 36.1400 | |
| 59 tert-Amyl Ethylether | 59 | 4.367 | 4.367 | (1.047) | 921891 | 45.7152 | 45.7152 | |
| 60 Dibromomethane | 93 | 4.525 | 4.525 | (1.085) | 276123 | 50.9741 | 50.9741 | |
| 61 1,2-Dichloropropane | 63 | 4.585 | 4.585 | (1.099) | 411580 | 50.5092 | 50.5092 | |
| 62 Bromodichloromethane | 83 | 4.607 | 4.607 | (1.105) | 507890 | 44.8477 | 44.8477 | |
| 63 Methyl methacrylate | 41 | 4.667 | 4.667 | (1.119) | 336983 | 52.2532 | 52.2532 | |
| 65 2-Chloroethylvinyl ether | 63 | 4.934 | 4.934 | (1.183) | 266927 | 44.7986 | 44.7986 | |
| 66 cis-1,3-Dichloropropene | 75 | 4.994 | 4.994 | (0.809) | 649677 | 44.9688 | 44.9688 | |
| 67 Octane | 85 | 5.000 | 5.000 | (0.810) | 145420 | 27.6700 | 27.6700 | |
| $ 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 994604 | 29.3984 | 29.3984 | |
| 69 Toluene | 92 | 5.152 | 5.153 | (0.835) | 938051 | 43.7456 | 43.7456 | |
| 70 Chloroacetonitrile | 75 | 5.212 | 5.213 | (0.844) | 133038 | 248.875 | 248.875 | |
| 71 2-Nitropropane | 41 | 5.300 | 5.300 | (0.859) | 521199 | 221.861 | 221.861 | |
| 72 1,1-Dichloro-2-propanone | 63 | 5.311 | 5.316 | (0.860) | 48798 | 214.930 | 214.930(Q) | |
| 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.371 | 5.371 | (0.870) | 2086958 | 246.464 | 246.464 | |
| 75 trans-1,3-Dichloropropene | 75 | 5.409 | 5.409 | (0.876) | 594333 | 44.4299 | 44.4299 | |
| 74 Tetrachloroethene | 164 | 5.409 | 5.409 | (0.876) | 344538 | 44.1248 | 44.1248 | |

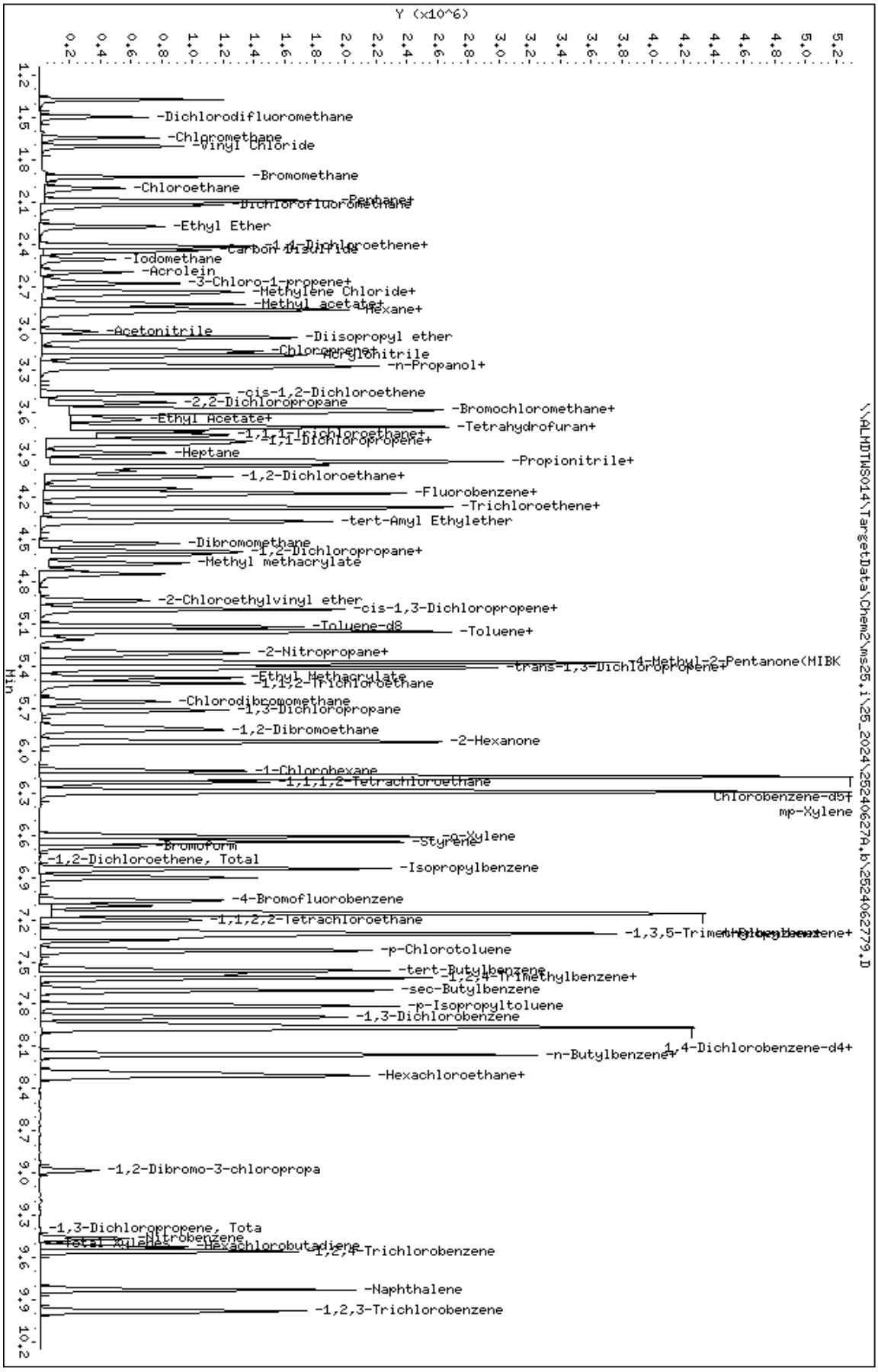
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Report Date: 28-Jun-2024 15:35



| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl methacrylate | 69 | 5.480 | 5.480 | (0.888) | 600337 | 46.4709 | 46.4709 | |
| | 77 1,1,2-Trichloroethane | 83 | 5.524 | 5.524 | (0.895) | 321610 | 48.8150 | 48.8150 | |
| | 78 Chlorodibromomethane | 129 | 5.649 | 5.649 | (0.915) | 410000 | 43.9452 | 43.9452 | |
| | 79 1,3-Dichloropropane | 76 | 5.714 | 5.715 | (0.926) | 656409 | 50.4266 | 50.4266 | |
| | 80 1,2-Dibromoethane | 107 | 5.829 | 5.829 | (0.944) | 402259 | 45.8896 | 45.8896 | |
| | 81 2-Hexanone | 43 | 5.933 | 5.933 | (0.961) | 1410332 | 242.795 | 242.795 | |
| | 82 1-Chlorohexane | 91 | 6.146 | 6.146 | (0.996) | 467311 | 41.4251 | 41.4251 | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.173 | (1.000) | 427317 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | 6.189 | 6.189 | (1.003) | 547608 | 42.8409 | 42.8409 | |
| | 84 Chlorobenzene | 112 | 6.184 | 6.189 | (1.002) | 1051242 | 48.1069 | 48.1069 | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | 6.222 | 6.222 | (1.008) | 368552 | 44.7026 | 44.7026 | |
| | 87 mp-Xylene | 106 | 6.287 | 6.293 | (1.019) | 1307279 | 86.0636 | 86.0636 | |
| M | 120 1,3-Dichloropropene, Total | 75 | | | | 1244010 | 89.3987 | 89.3987 | |
| | 88 o-Xylene | 106 | 6.609 | 6.610 | (1.071) | 633950 | 43.5942 | 43.5942 | |
| | 89 Styrene | 104 | 6.648 | 6.648 | (0.836) | 1060787 | 48.6088 | 48.6088 | |
| | 90 Bromoform | 173 | 6.680 | 6.681 | (0.840) | 276678 | 44.9141 | 44.9141 | |
| | 91 Isopropylbenzene | 105 | 6.839 | 6.839 | (0.860) | 1377979 | 45.3029 | 45.3029 | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 309541 | 30.3200 | 30.3200 | |
| M | 121 TOTAL XYLENES | 106 | | | | 1941229 | 129.658 | 129.658 | |
| | 94 n-Propylbenzene | 120 | 7.155 | 7.155 | (0.900) | 429247 | 48.1113 | 48.1113 | |
| | 93 Bromobenzene | 156 | 7.155 | 7.155 | (0.900) | 446482 | 51.1725 | 51.1725 | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | 7.204 | 7.204 | (0.906) | 473571 | 54.6091 | 54.6091 | |
| | 97 1,3,5-Trimethylbenzene | 105 | 7.302 | 7.303 | (0.918) | 1218828 | 49.0857 | 49.0857 | |
| | 96 o-Chlorotoluene | 91 | 7.291 | 7.292 | (0.917) | 1186011 | 50.5254 | 50.5254 | |
| | 98 1,2,3-Trichloropropane | 110 | 7.324 | 7.324 | (0.921) | 151040 | 54.0012 | 54.0012 | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | 7.346 | 7.346 | (0.924) | 125903 | 47.3276 | 47.3276 | |
| | 101 p-Chlorotoluene | 91 | 7.417 | 7.417 | (0.933) | 1085653 | 51.0606 | 51.0606 | |
| | 102 tert-Butylbenzene | 134 | 7.559 | 7.564 | (0.951) | 296071 | 49.8547 | 49.8547 | |
| | 103 Pentachloroethane | 117 | 7.586 | 7.586 | (0.954) | 264377 | 44.3656 | 44.3656(QM) | MP |
| | 104 1,2,4-Trimethylbenzene | 105 | 7.613 | 7.614 | (0.957) | 1227749 | 46.6849 | 46.6849 | |
| | 105 sec-Butylbenzene | 105 | 7.701 | 7.701 | (0.968) | 1452337 | 47.3246 | 47.3246 | |
| | 106 p-Isopropyltoluene | 134 | 7.815 | 7.815 | (0.983) | 332522 | 47.3155 | 47.3155 | |
| | 107 1,3-Dichlorobenzene | 146 | 7.892 | 7.892 | (0.992) | 752798 | 51.2135 | 51.2135 | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 369030 | 30.0000 | | |
| | 109 1,4-Dichlorobenzene | 146 | 7.963 | 7.963 | (1.001) | 768976 | 50.1886 | 50.1886 | |
| | 111 n-Butylbenzene | 134 | 8.159 | 8.159 | (1.026) | 289703 | 44.1116 | 44.1116(Q) | |
| | 110 Benzyl Chloride | 126 | 8.159 | 8.159 | (1.026) | 144203 | 39.3673 | 39.3673(Q) | |
| | 112 Hexachloroethane | 117 | 8.290 | 8.290 | (1.043) | 221302 | 42.0854 | 42.0854 | |
| | 113 1,2-Dichlorobenzene | 146 | 8.312 | 8.312 | (1.045) | 724803 | 51.7646 | 51.7646 | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | 8.983 | 8.983 | (1.130) | 76056 | 45.8935 | 45.8935 | |
| | 115 Nitrobenzene | 77 | 9.463 | 9.463 | (1.190) | 243875 | 453.457 | 453.457 | |
| | 116 Hexachlorobutadiene | 225 | 9.523 | 9.529 | (1.198) | 166575 | 36.0300 | 36.0300 | |
| | 117 1,2,4-Trichlorobenzene | 180 | 9.556 | 9.556 | (1.202) | 461751 | 49.7977 | 49.7977 | |
| | 118 Naphthalene | 128 | 9.829 | 9.829 | (1.236) | 1273408 | 46.7422 | 46.7422 | |
| | 119 1,2,3-Trichlorobenzene | 180 | 9.981 | 9.982 | (1.255) | 460297 | 44.2149 | 44.2149 | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

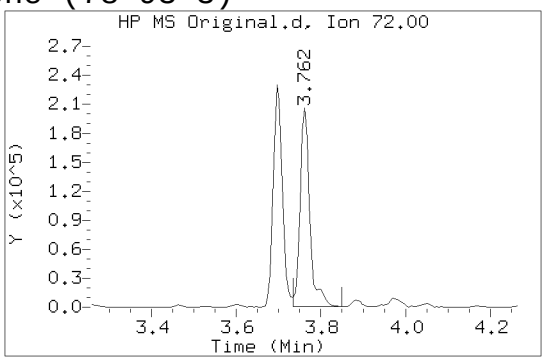

Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Ethyl Ether
-Iodomethane
-Acrolein
-Methylene Chloride+
-Hexane+
-Acetonitrile
-Diisopropyl ether
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Tetrahydrofuran+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-Chlorobenzene-d5+
mp-Xylene
-o-Xylene
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-p-Chlorotoluene
-tert-Butylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Nitrobenzene
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
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Page 1

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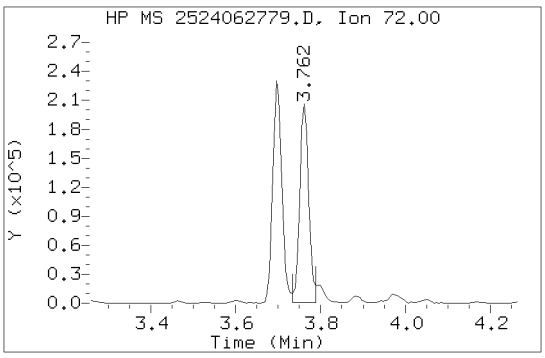
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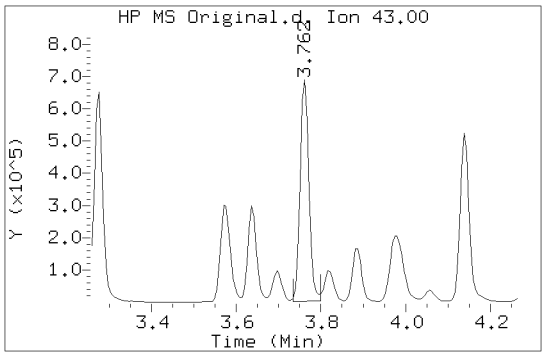
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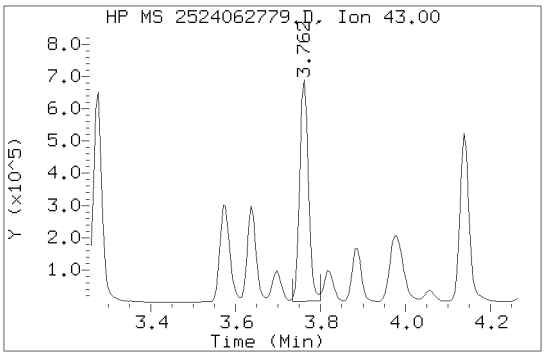

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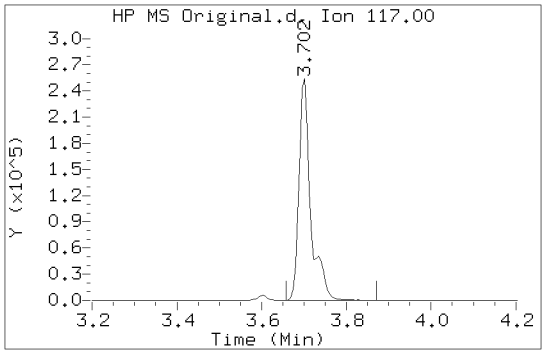

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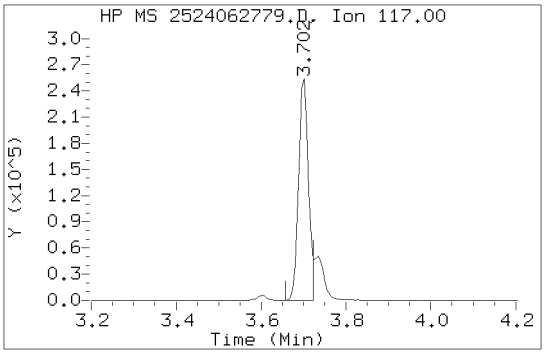

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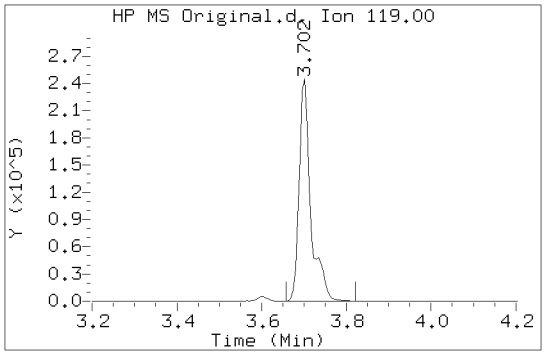
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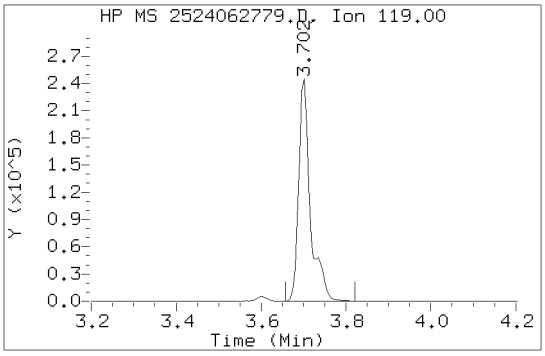

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BEFORE
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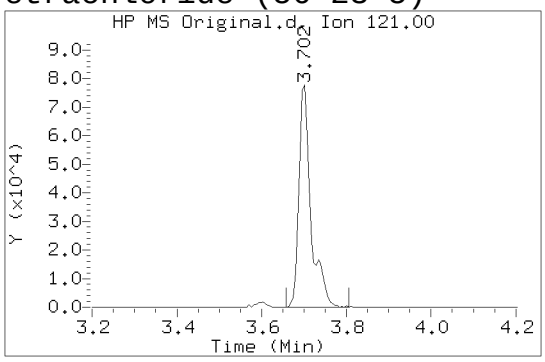
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## Carbon Tetrachloride (56-23-5)

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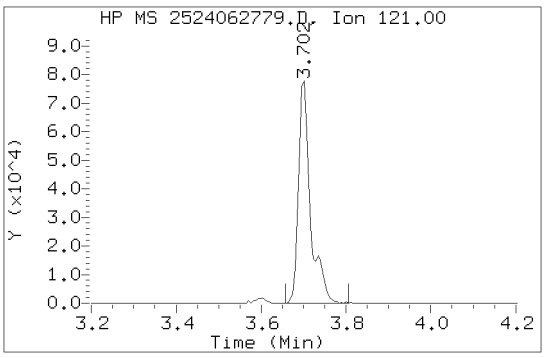
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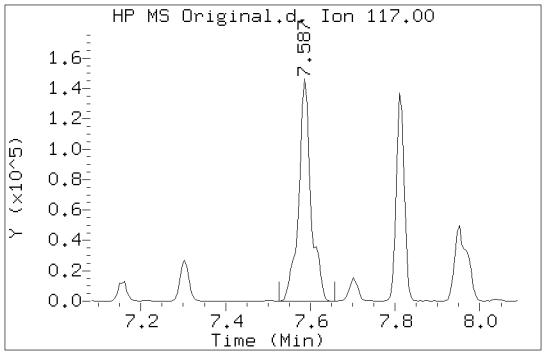



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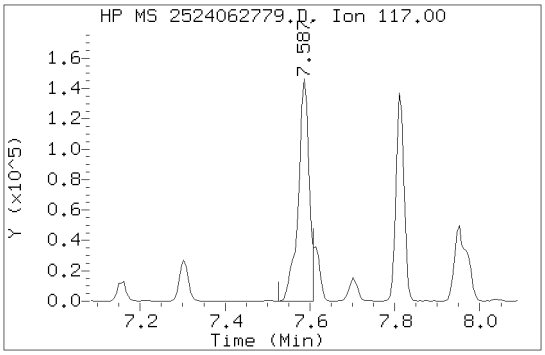
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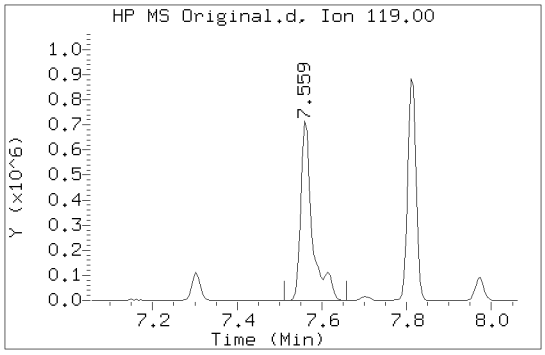

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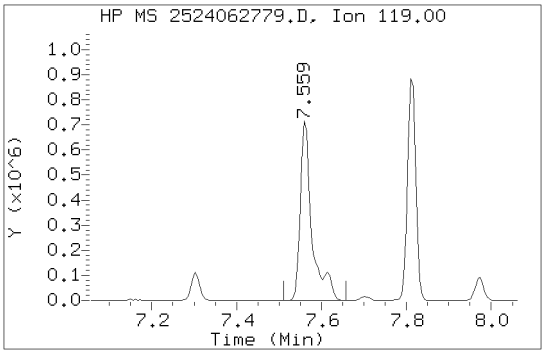

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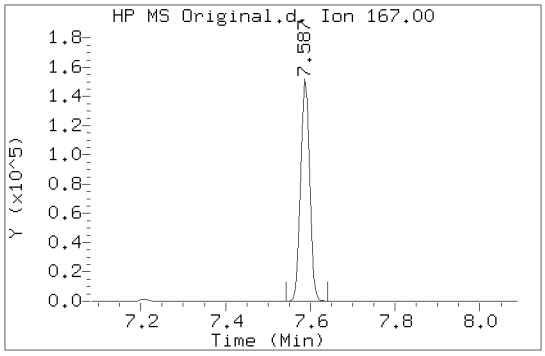

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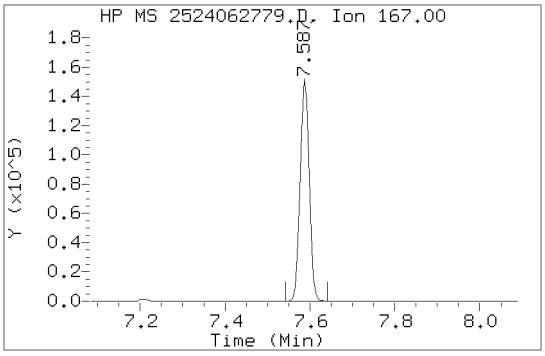

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**AFTER**

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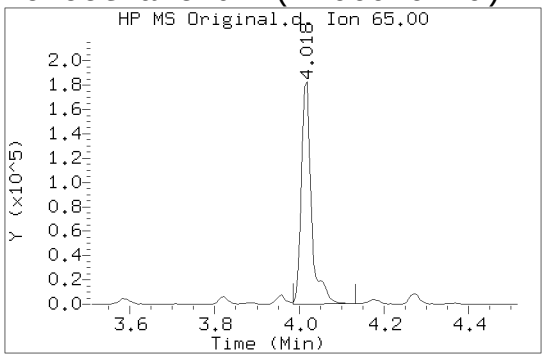


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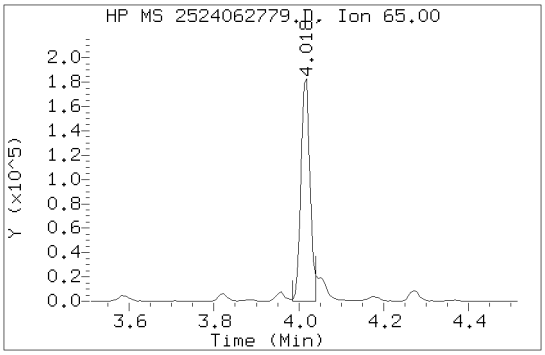
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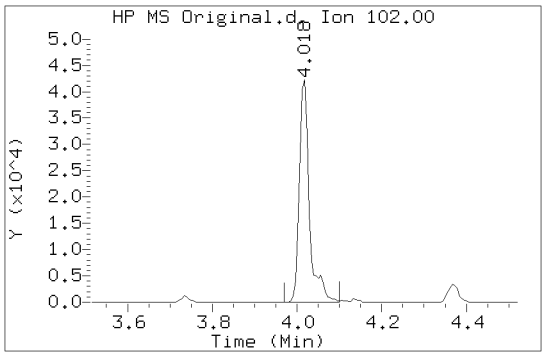
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28-Jun-2024
09:12



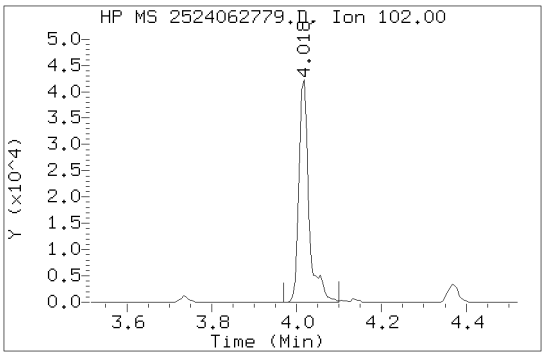

AFTER
MASS
65
AREA
273654
HEIGHT
182459
28-Jun-2024
15:35



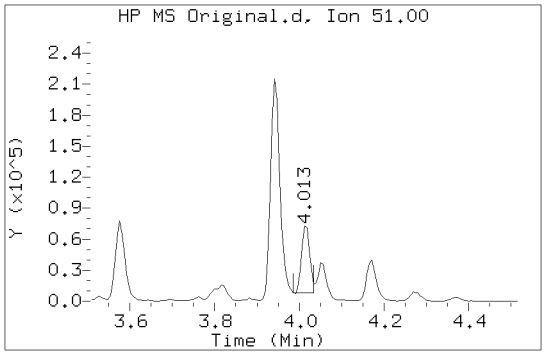

BEFORE
MASS
102
AREA
70459
HEIGHT
42240
28-Jun-2024
09:12



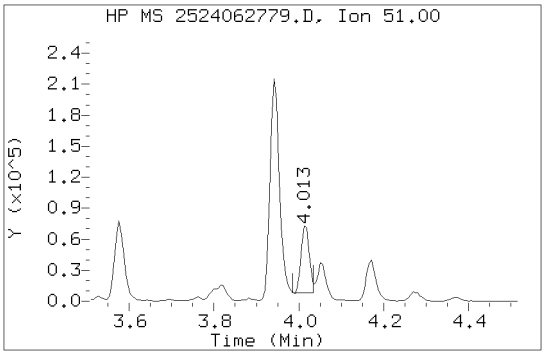

AFTER
MASS
102
AREA
70459
HEIGHT
42240
28-Jun-2024
15:35




BEFORE
MASS
51
AREA
88271
HEIGHT
64987
28-Jun-2024
09:12




AFTER
MASS
51
AREA
88271
HEIGHT
64987
28-Jun-2024
15:35



# UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:35
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 28-JUN-2024 05:22
Operator: BST

There were no Unassigned peaks in this sample!

right solutions.
right partner.

# Raw Data 25240628

## Volatiles by EPA 8260D

Workorder

**3366027**

Client

ALS Houston

Project

AHH131|HS24061196

07/09/2024

www.alsglobal.com

Data File: 2524062800.D Page 1
Report Date: 28-Jun-2024 09:14

ALS Environmental Services

BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062800.D
Lab Smp Id: 1000
Inj Date : 28-JUN-2024 09:00
Operator : TMP Inst ID: ms25.i
Smp Info : 1000
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\bfb288.m
Meth Date : 13-Sep-2023 15:55 bsimms Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAMDTW7026

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vf | 1.000 | Volumetric correction factor |
| Vi | 1.000 | Injection Volume |
| Cpnd Variable | | Local Compound Variable |

| RT | EXP RT | REL RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 bfb | | | | | | CAS #: 460-00-4 | | |
| 7.057 | 8.129 | ( 0.000) | 95 | 93616 | | | 0.00- 100.00 | 100.00 |
| 7.057 | 8.129 | ( 0.000) | 50 | 17312 | | | 15.00- 40.00 | 18.49 |
| 7.057 | 8.129 | ( 0.000) | 75 | 44616 | | | 30.00- 60.00 | 47.66 |
| 7.057 | 8.129 | ( 0.000) | 96 | 6656 | | | 5.00- 9.00 | 7.11 |
| 7.057 | 8.129 | ( 0.000) | 173 | 365 | | | 0.00- 2.00 | 0.45 |
| 7.057 | 8.129 | ( 0.000) | 174 | 80744 | | | 50.00- 0.00 | 86.25 |
| 7.057 | 8.129 | ( 0.000) | 175 | 6388 | | | 5.00- 9.00 | 7.91 |
| 7.057 | 8.129 | ( 0.000) | 176 | 79000 | | | 95.00- 101.00 | 97.84 |
| 7.057 | 8.129 | ( 0.000) | 177 | 5283 | | | 5.00- 9.00 | 6.69 |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 18.49 |
| 75 | 30.00 - 60.00% of mass 95 | 47.66 |
| 96 | 5.00 - 9.00% of mass 95 | 7.11 |
| 173 | Less than 2.00% of mass 174 | 0.39 ( 0.45) |
| 174 | Greater than 50.00% of mass 95 | 86.25 |
| 175 | 5.00 - 9.00% of mass 174 | 6.82 ( 7.91) |
| 176 | 95.00 - 101.00% of mass 174 | 84.39 ( 97.84) |
| 177 | 5.00 - 9.00% of mass 176 | 5.64 ( 6.69) |

Data File: 2524062800.D
Spectrum: Avg. Scans 1084-1086 ( 7.06), Background Scan 1077
Location of Maximum: 95.00
Number of points: 84

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 757 | 63.00 | 3165 | 93.00 | 4170 | 141.00 | 929 |
| 37.00 | 4461 | 64.00 | 307 | 94.00 | 11214 | 142.00 | 64 |
| 38.00 | 3788 | 67.00 | 394 | 95.00 | 93616 | 143.00 | 860 |
| 39.00 | 1350 | 68.00 | 9611 | 96.00 | 6656 | 146.00 | 108 |
| 42.00 | 64 | 69.00 | 9495 | 97.00 | 376 | 148.00 | 287 |
| 43.00 | 135 | 70.00 | 902 | 103.00 | 209 | 155.00 | 209 |
| 44.00 | 493 | 72.00 | 433 | 104.00 | 339 | 156.00 | 89 |
| 45.00 | 600 | 73.00 | 3819 | 105.00 | 167 | 157.00 | 96 |
| 46.00 | 53 | 74.00 | 15201 | 106.00 | 474 | 161.00 | 187 |
| 47.00 | 1205 | 75.00 | 44616 | 107.00 | 63 | 171.00 | 160 |
| 48.00 | 559 | 76.00 | 3932 | 115.00 | 114 | 172.00 | 225 |
| 49.00 | 3803 | 77.00 | 634 | 116.00 | 339 | 173.00 | 365 |
| 50.00 | 17312 | 78.00 | 468 | 117.00 | 539 | 174.00 | 80744 |
| 51.00 | 5693 | 79.00 | 3121 | 118.00 | 435 | 175.00 | 6388 |
| 52.00 | 388 | 80.00 | 840 | 119.00 | 441 | 176.00 | 79000 |
| 55.00 | 368 | 81.00 | 2972 | 128.00 | 495 | 177.00 | 5283 |
| 56.00 | 1499 | 82.00 | 658 | 129.00 | 95 | 178.00 | 62 |
| 57.00 | 2555 | 83.00 | 130 | 130.00 | 381 | 211.00 | 195 |
| 58.00 | 53 | 87.00 | 4011 | 131.00 | 126 | | |
| 60.00 | 1008 | 88.00 | 4363 | 135.00 | 67 | | |
| 61.00 | 4464 | 91.00 | 335 | 137.00 | 264 | | |
| 62.00 | 3919 | 92.00 | 2757 | 140.00 | 52 | | |

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062800.D



Date : 28-JUN-2024 09:00

Client ID:

Instrument: ms25.i

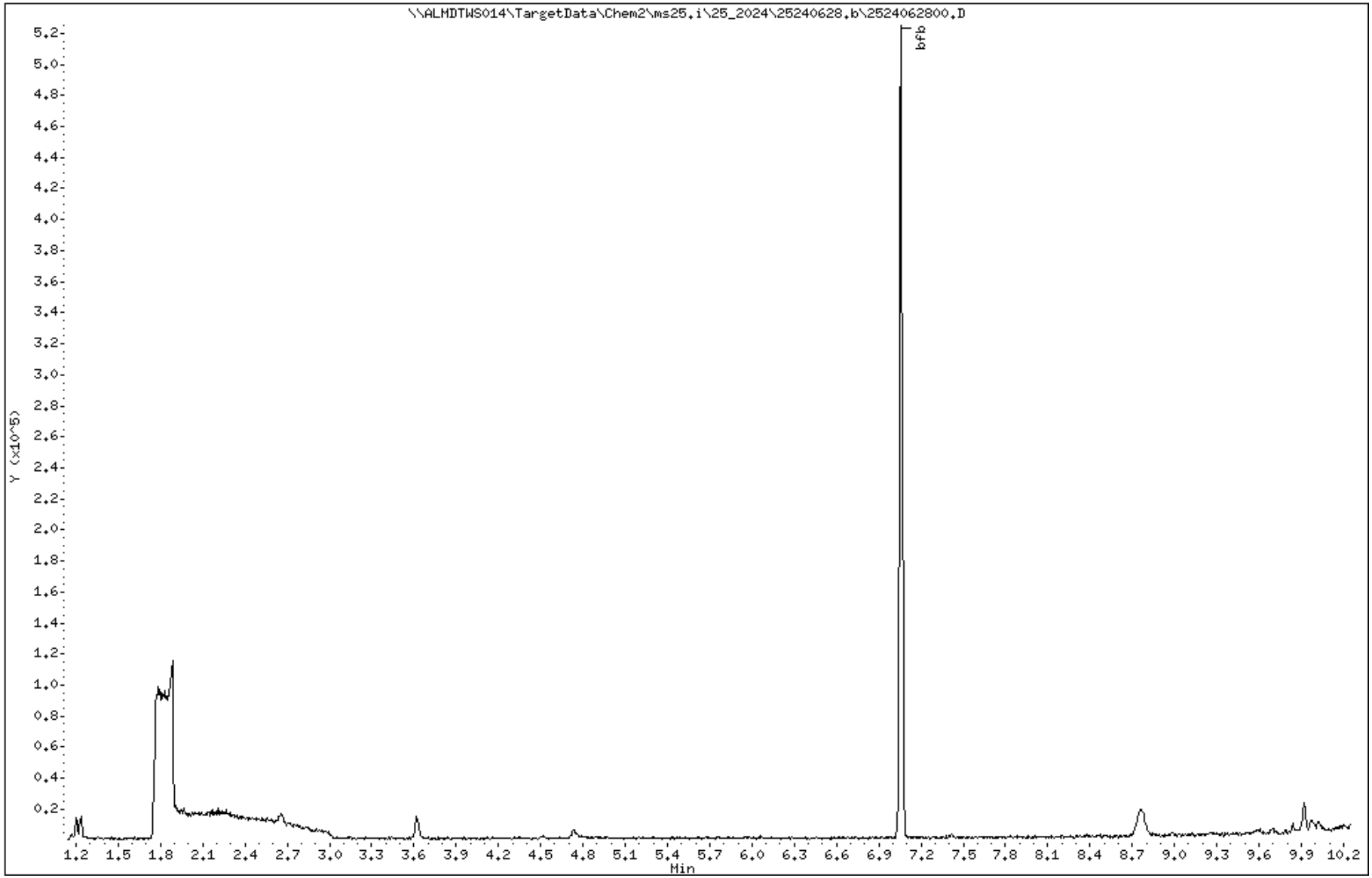
Sample Info: 1000

Volume Injected (uL): 1.0

Operator: TMP

Column phase: DB624

Column diameter: 0.53



Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062800.D
Inj Date  : 28-JUN-2024 09:00
InstruID  : ms25.i
LabSampID : 1000

NO MANUAL INTEGRATIONS

Data File: 2524062801.D Page 1
Report Date: 30-Jun-2024 14:58

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062801.D
Lab Smp Id: 1800
Inj Date : 28-JUN-2024 09:53
Operator : TMP Inst ID: ms25.i
Smp Info : 1800;;1;2;4;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: NAMDTW7026

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.497 | 1.497 | (0.359) | 522975 | 50.0000 | 45.5603 | |
| 2 Chloromethane | 50 | 1.644 | 1.644 | (0.394) | 498166 | 50.0000 | 49.6944 | |
| 3 Vinyl Chloride | 62 | 1.704 | 1.704 | (0.409) | 622041 | 50.0000 | 47.9365 | |
| 4 Bromomethane | 94 | 1.922 | 1.922 | (0.461) | 330884 | 50.0000 | 53.3014 | |
| 5 Chloroethane | 64 | 2.004 | 2.004 | (0.481) | 418408 | 50.0000 | 47.7213 | |
| 6 Pentane | 41 | 2.092 | 2.092 | (0.502) | 346589 | 50.0000 | 42.7039 | |
| 7 Trichlorofluoromethane | 101 | 2.097 | 2.097 | (0.503) | 836914 | 50.0000 | 47.0857 | |
| 8 Dichlorofluoromethane | 67 | 2.124 | 2.124 | (0.509) | 838647 | 50.0000 | 50.9927 | |
| 9 Ethyl Ether | 74 | 2.277 | 2.277 | (0.546) | 259287 | 50.0000 | 51.8443 | |
| 10 1,1-Dichloroethene | 61 | 2.414 | 2.414 | (0.579) | 486093 | 50.0000 | 48.7074 | |
| 12 Carbon Disulfide | 76 | 2.446 | 2.446 | (0.587) | 1060410 | 50.0000 | 49.2562 | |
| 11 Freon 113 | 101 | 2.424 | 2.424 | (0.581) | 336781 | 50.0000 | 47.9785 | |
| 13 Iodomethane | 127 | 2.506 | 2.506 | (0.601) | 190868 | 50.0000 | 49.3398 | |
| 14 Acrolein | 56 | 2.599 | 2.599 | (0.623) | 394338 | 250.000 | 244.969 | |
| 16 3-Chloro-1-propene | 41 | 2.681 | 2.681 | (0.643) | 423514 | 50.0000 | 48.7054 | |
| 15 Isopropyl Alcohol | 45 | 2.654 | 2.654 | (0.636) | 136872 | 250.000 | 260.250 | |
| 17 Methylene Chloride | 84 | 2.741 | 2.741 | (0.657) | 415804 | 50.0000 | 51.0065 | |
| 18 Acetone | 58 | 2.752 | 2.752 | (0.660) | 216587 | 250.000 | 239.805 | |
| 19 Methyl acetate | 74 | 2.817 | 2.817 | (0.676) | 87587 | 50.0000 | 47.1866 | |
| 20 trans-1,2-Dichloroethene | 61 | 2.828 | 2.828 | (0.678) | 503858 | 50.0000 | 51.5475 | |
| 21 Hexane | 57 | 2.866 | 2.866 | (0.687) | 766982 | 50.0000 | 47.1553 | |

Data File: 2524062801.D Page 2
Report Date: 30-Jun-2024 14:58

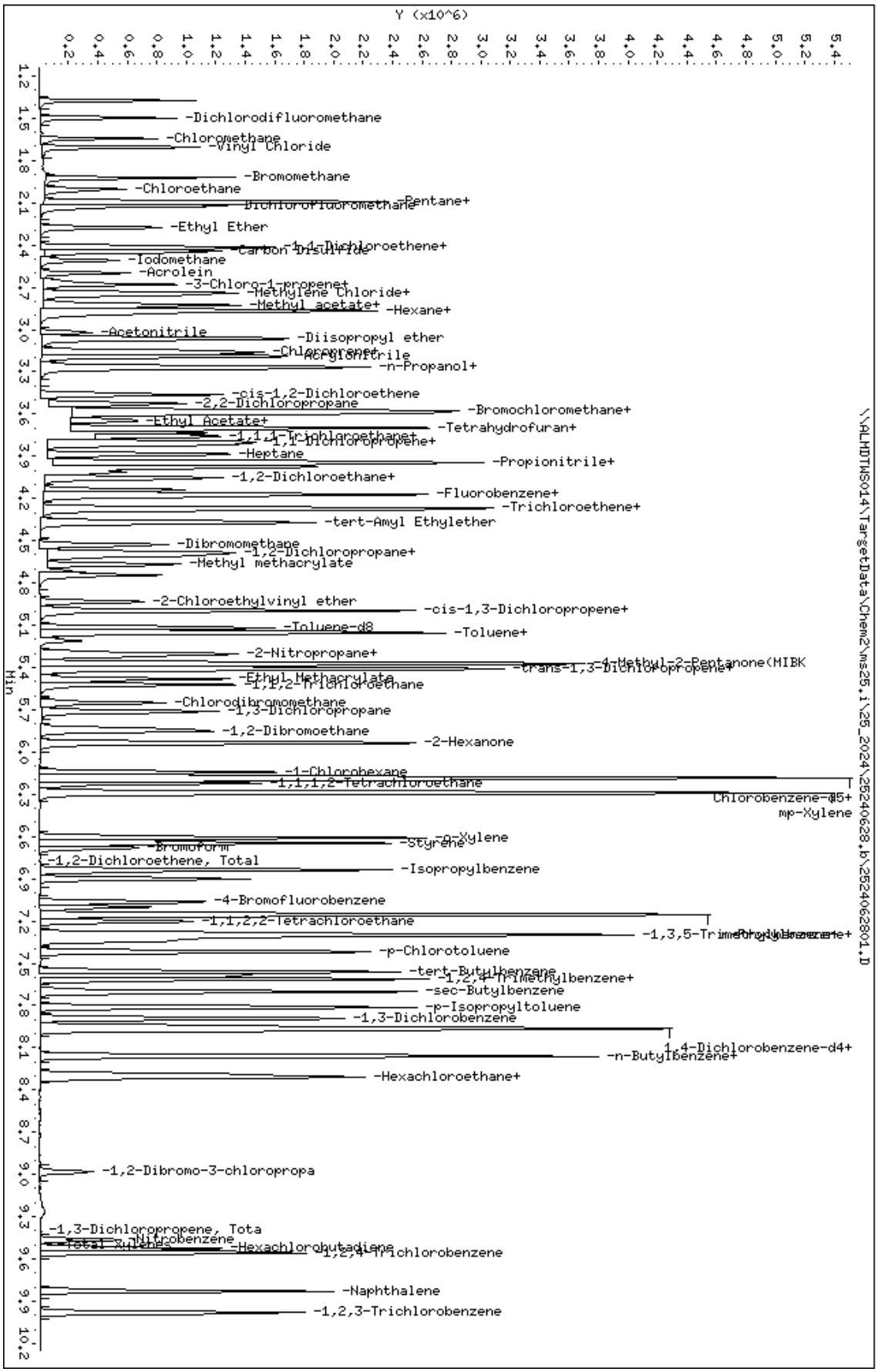
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | 2.872 | 2.872 | (0.689) | 1224730 | 50.0000 | 48.8448 | |
| | 23 tert.- Butyl Alcohol | 59 | 2.894 | 2.894 | (0.694) | 229444 | 250.000 | 254.476 | |
| | 24 Acetonitrile | 41 | 3.019 | 3.019 | (0.724) | 269805 | 250.000 | 267.144 | |
| | 25 Diisopropyl ether | 45 | 3.063 | 3.063 | (0.734) | 1162416 | 50.0000 | 53.5838 | |
| | 26 Chloroprene | 53 | 3.156 | 3.156 | (0.757) | 586187 | 50.0000 | 53.2981 | |
| | 27 1,1-Dichloroethane | 63 | 3.167 | 3.167 | (0.759) | 696701 | 50.0000 | 52.3174 | |
| | 28 Acrylonitrile | 53 | 3.188 | 3.188 | (0.765) | 943483 | 250.000 | 272.040(M) | MP |
| | 30 n-Propanol | 41 | 3.265 | 3.265 | (0.783) | 212630 | 500.000 | 497.521 | |
| | 29 Ethyl tert-butyl ether | 59 | 3.265 | 3.265 | (0.783) | 1250326 | 50.0000 | 54.2669 | |
| | 31 Vinyl acetate | 86 | 3.276 | 3.276 | (0.785) | 105996 | 50.0000 | 46.6572 | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.461 | 3.461 | (0.830) | 515189 | 50.0000 | 51.9816 | |
| | 33 2,2-Dichloropropane | 77 | 3.527 | 3.527 | (0.846) | 541182 | 50.0000 | 50.9894 | |
| M | 100 1,2-Dichloroethene, Total | 61 | | | | 1019047 | 100.000 | 103.529 | |
| | 34 Bromochloromethane | 128 | 3.576 | 3.576 | (0.857) | 225522 | 50.0000 | 52.7657 | |
| | 35 Cyclohexane | 84 | 3.592 | 3.592 | (0.861) | 575162 | 50.0000 | 48.3654 | |
| | 36 Chloroform | 83 | 3.598 | 3.598 | (0.863) | 727311 | 50.0000 | 50.5922 | |
| | 37 Ethyl acetate | 43 | 3.636 | 3.636 | (0.872) | 414353 | 50.0000 | 48.0661 | |
| | 38 Methyl acrylate | 55 | 3.652 | 3.652 | (0.876) | 418844 | 50.0000 | 52.4813 | |
| | 39 Carbon Tetrachloride | 117 | 3.701 | 3.701 | (0.887) | 456704 | 50.0000 | 43.2489(M) | MP |
| | 40 Tetrahydrofuran | 42 | 3.696 | 3.696 | (0.886) | 628267 | 250.000 | 257.505 | |
| $ | 41 Dibromofluoromethane | 113 | 3.707 | 3.707 | (0.889) | 239748 | 30.0000 | 29.2895 | |
| | 42 1,1,1-Trichloroethane | 97 | 3.734 | 3.734 | (0.895) | 573212 | 50.0000 | 51.2274 | |
| | 43 2-Butanone | 72 | 3.761 | 3.761 | (0.902) | 293285 | 250.000 | 248.658(M) | MP |
| | 44 1,1-Dichloropropene | 75 | 3.799 | 3.799 | (0.911) | 536580 | 50.0000 | 50.6957 | |
| | 45 1-Chlorobutane | 41 | 3.821 | 3.821 | (0.916) | 331584 | 50.0000 | 48.7154 | |
| | 46 Heptane | 71 | 3.887 | 3.887 | (0.932) | 293493 | 50.0000 | 47.7279 | |
| | 48 Propionitrile | 54 | 3.941 | 3.941 | (0.945) | 357280 | 250.000 | 272.044 | |
| | 47 Benzene | 78 | 3.941 | 3.941 | (0.945) | 1602139 | 50.0000 | 49.2473 | |
| | 49 Methacrylonitrile | 67 | 3.952 | 3.952 | (0.948) | 206876 | 50.0000 | 52.5475 | |
| | 50 tert-amyl methyl Ether | 73 | 3.974 | 3.974 | (0.953) | 1204105 | 50.0000 | 54.1395 | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.012 | 4.012 | (0.962) | 250186 | 30.0000 | 28.9946(M) | MP |
| | 54 Isobutyl alcohol | 42 | 3.985 | 3.985 | (0.956) | 103812 | 500.000 | 518.152(M) | MP |
| | 52 1,2-Dichloroethane | 62 | 4.056 | 4.056 | (0.973) | 524527 | 50.0000 | 51.2891 | |
| | 53 tert-Amyl Alcohol | 59 | 4.056 | 4.056 | (0.973) | 178309 | 250.000 | 257.759 | |
| * | 55 Fluorobenzene | 96 | 4.171 | 4.171 | (1.000) | 1037403 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.176 | 4.176 | (1.001) | 931592 | 50.0000 | 46.2717 | |
| | 57 Trichloroethene | 95 | 4.269 | 4.269 | (1.024) | 415600 | 50.0000 | 50.4763 | |
| | 58 Methyl cyclohexane | 83 | 4.274 | 4.274 | (0.692) | 635200 | 50.0000 | 49.5114 | |
| | 59 tert-Amyl Ethylether | 59 | 4.367 | 4.367 | (1.047) | 942938 | 50.0000 | 48.6456 | |
| | 60 Dibromomethane | 93 | 4.525 | 4.525 | (1.085) | 273495 | 50.0000 | 52.5444 | |
| | 61 1,2-Dichloropropane | 63 | 4.585 | 4.585 | (1.099) | 410545 | 50.0000 | 52.4333 | |
| | 62 Bromodichloromethane | 83 | 4.607 | 4.607 | (1.105) | 507307 | 50.0000 | 46.6069 | |
| | 63 Methyl methacrylate | 41 | 4.667 | 4.667 | (1.119) | 335986 | 50.0000 | 54.2196 | |
| | 65 2-Chloroethylvinyl ether | 63 | 4.934 | 4.934 | (1.183) | 267474 | 50.0000 | 46.7021 | |
| | 66 cis-1,3-Dichloropropene | 75 | 4.994 | 4.994 | (0.809) | 664624 | 50.0000 | 49.6722 | |
| | 67 Octane | 85 | 5.000 | 5.000 | (0.810) | 247791 | 50.0000 | 50.9393 | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 930097 | 30.0000 | 29.7020 | |
| | 69 Toluene | 92 | 5.153 | 5.153 | (0.835) | 963088 | 50.0000 | 48.5241 | |
| | 70 Chloroacetonitrile | 75 | 5.213 | 5.213 | (0.844) | 129683 | 250.000 | 262.103 | |
| | 71 2-Nitropropane | 41 | 5.300 | 5.300 | (0.859) | 513583 | 250.000 | 236.074 | |
| | 72 1,1-Dichloro-2-propanone | 63 | 5.316 | 5.316 | (0.861) | 50536 | 250.000 | 240.249 | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.371 | 5.371 | (0.870) | 2038160 | 250.000 | 259.997 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.409 | 5.409 | (0.876) | 602124 | 50.0000 | 48.6031 | |
| | 74 Tetrachloroethene | 164 | 5.409 | 5.409 | (0.876) | 359744 | 50.0000 | 49.7763 | |

Data File: 2524062801.D Page 3
Report Date: 30-Jun-2024 14:58

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl methacrylate | 69 | 5.480 | 5.480 | (0.888) | 596730 | 50.0000 | 49.8820 | |
| | 77 1,1,2-Trichloroethane | 83 | 5.524 | 5.524 | (0.895) | 326226 | 50.0000 | 53.4964 | |
| | 78 Chlorodibromomethane | 129 | 5.649 | 5.649 | (0.915) | 407883 | 50.0000 | 47.2055 | |
| | 79 1,3-Dichloropropane | 76 | 5.715 | 5.715 | (0.926) | 655351 | 50.0000 | 54.3929 | |
| | 80 1,2-Dibromoethane | 107 | 5.829 | 5.829 | (0.944) | 393954 | 50.0000 | 48.5417 | |
| | 81 2-Hexanone | 43 | 5.933 | 5.933 | (0.961) | 1377785 | 250.000 | 256.199 | |
| | 82 1-Chlorohexane | 91 | 6.146 | 6.146 | (0.996) | 543321 | 50.0000 | 52.0351 | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.173 | (1.000) | 395519 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | 6.189 | 6.189 | (1.003) | 560990 | 50.0000 | 47.4305 | |
| | 84 Chlorobenzene | 112 | 6.184 | 6.184 | (1.002) | 1057594 | 50.0000 | 52.2886 | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | 6.222 | 6.222 | (1.008) | 364641 | 50.0000 | 47.7621 | |
| | 87 mp-Xylene | 106 | 6.288 | 6.288 | (1.019) | 1360923 | 100.000 | 96.8971 | |
| M | 120 1,3-Dichloropropene, Total | 75 | | | | 1266748 | 100.000 | 98.2753 | |
| | 88 o-Xylene | 106 | 6.610 | 6.610 | (1.071) | 649037 | 50.0000 | 48.2199 | |
| | 89 Styrene | 104 | 6.648 | 6.648 | (0.836) | 1053521 | 50.0000 | 49.2274 | |
| | 90 Bromoform | 173 | 6.680 | 6.680 | (0.840) | 272520 | 50.0000 | 45.1129 | |
| | 91 Isopropylbenzene | 105 | 6.839 | 6.839 | (0.860) | 1476432 | 50.0000 | 49.4875 | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 293145 | 30.0000 | 29.2822 | |
| M | 121 TOTAL XYLENES | 106 | | | | 2009960 | 150.000 | 145.117 | |
| | 94 n-Propylbenzene | 120 | 7.155 | 7.155 | (0.900) | 454683 | 50.0000 | 51.9708 | |
| | 93 Bromobenzene | 156 | 7.155 | 7.155 | (0.900) | 443340 | 50.0000 | 51.8179 | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | 7.204 | 7.204 | (0.906) | 464231 | 50.0000 | 54.5914 | |
| | 97 1,3,5-Trimethylbenzene | 105 | 7.303 | 7.303 | (0.918) | 1283166 | 50.0000 | 52.6994 | |
| | 96 o-Chlorotoluene | 91 | 7.292 | 7.292 | (0.917) | 1235746 | 50.0000 | 53.6860 | |
| | 98 1,2,3-Trichloropropane | 110 | 7.324 | 7.324 | (0.921) | 146032 | 50.0000 | 53.2439 | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | 7.346 | 7.346 | (0.924) | 127893 | 50.0000 | 49.0166 | |
| | 101 p-Chlorotoluene | 91 | 7.417 | 7.417 | (0.933) | 1121063 | 50.0000 | 53.7694 | |
| | 102 tert-Butylbenzene | 134 | 7.559 | 7.559 | (0.951) | 311370 | 50.0000 | 53.4684 | |
| | 103 Pentachloroethane | 117 | 7.586 | 7.586 | (0.954) | 280902 | 50.0000 | 48.0471(M) | |
| | 104 1,2,4-Trimethylbenzene | 105 | 7.614 | 7.614 | (0.957) | 1277802 | 50.0000 | 49.5590 | |
| | 105 sec-Butylbenzene | 105 | 7.701 | 7.701 | (0.968) | 1633565 | 50.0000 | 54.2833 | |
| | 106 p-Isopropyltoluene | 134 | 7.815 | 7.815 | (0.983) | 372062 | 50.0000 | 53.9895 | |
| | 107 1,3-Dichlorobenzene | 146 | 7.892 | 7.892 | (0.992) | 760008 | 50.0000 | 52.7271 | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 361869 | 30.0000 | | |
| | 109 1,4-Dichlorobenzene | 146 | 7.963 | 7.963 | (1.001) | 778069 | 50.0000 | 51.7870 | |
| | 111 n-Butylbenzene | 134 | 8.159 | 8.159 | (1.026) | 338298 | 50.0000 | 52.5303 | |
| | 110 Benzyl Chloride | 126 | 8.159 | 8.159 | (1.026) | 165312 | 50.0000 | 45.9437 | |
| | 112 Hexachloroethane | 117 | 8.290 | 8.290 | (1.043) | 230172 | 50.0000 | 44.6148 | |
| | 113 1,2-Dichlorobenzene | 146 | 8.312 | 8.312 | (1.045) | 726959 | 50.0000 | 52.9460 | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | 8.983 | 8.983 | (1.130) | 76019 | 50.0000 | 46.7709 | |
| | 115 Nitrobenzene | 77 | 9.463 | 9.463 | (1.190) | 234976 | 500.000 | 446.343 | |
| | 116 Hexachlorobutadiene | 225 | 9.529 | 9.529 | (1.198) | 216275 | 50.0000 | 47.6242 | |
| | 117 1,2,4-Trichlorobenzene | 180 | 9.556 | 9.556 | (1.202) | 495994 | 50.0000 | 54.5492 | |
| | 118 Naphthalene | 128 | 9.829 | 9.829 | (1.236) | 1264368 | 50.0000 | 47.3247 | |
| | 119 1,2,3-Trichlorobenzene | 180 | 9.982 | 9.982 | (1.255) | 475468 | 50.0000 | 46.5604 | |

QC Flag Legend

M - Compound response manually integrated.




Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062801.D
Date : 28-JUN-2024 09:53
Client ID:
Sample Info: 1800;1;2;4;;;
Purge Volume: 5.0
Column phase: DB-VRX

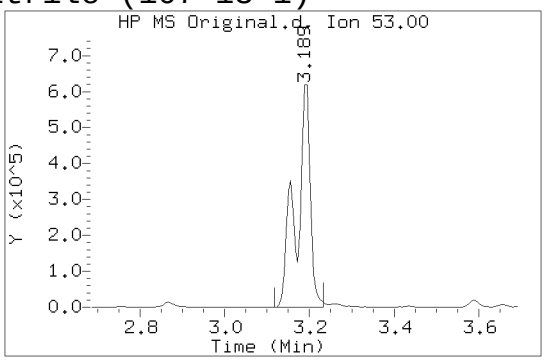
Instrument: ms25.i
Operator: THP
Column diameter: 0.25

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Inj Date : 28-JUN-2024 09:53
InstruID : ms25.i
LabSampID : 1800

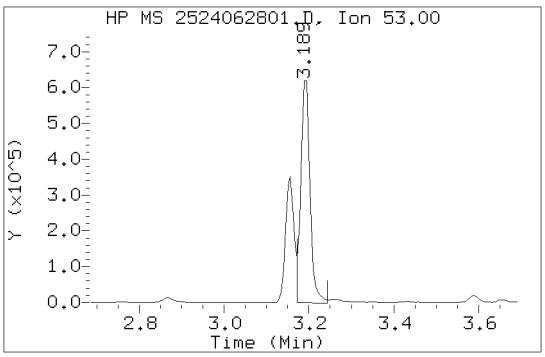
## Acrylonitrile (107-13-1)

Reason Code: MP

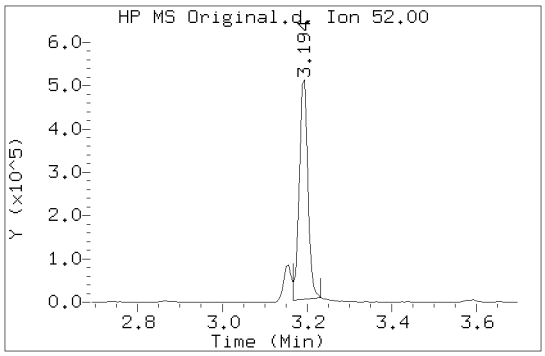
**BEFORE**
MASS
53
AREA
1403014
HEIGHT
618157
28-Jun-2024
10:05



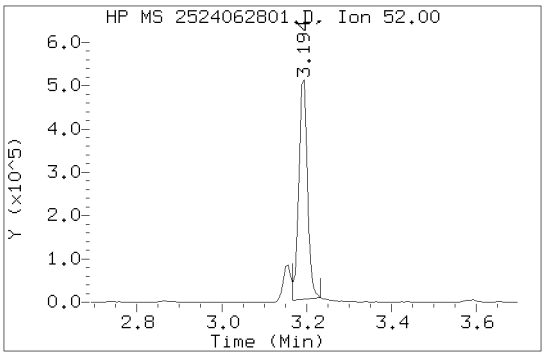

**AFTER**
MASS
53
AREA
943483
HEIGHT
618959
30-Jun-2024
14:58



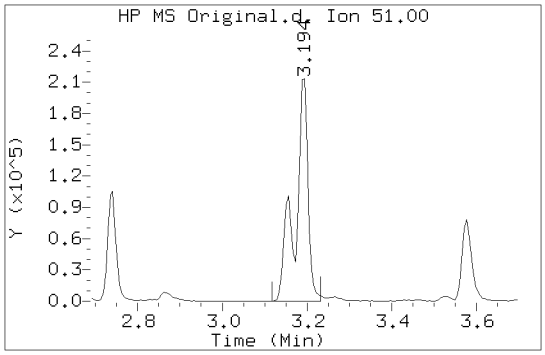

**BEFORE**
MASS
52
AREA
720824
HEIGHT
506241
28-Jun-2024
10:05



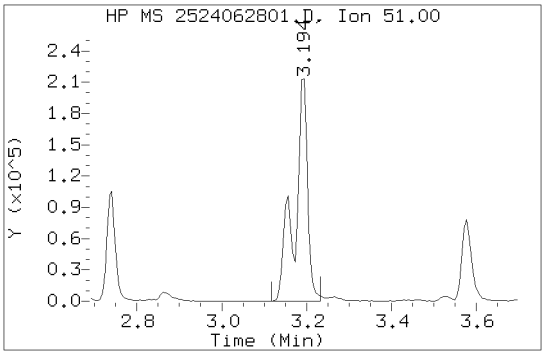

**AFTER**
MASS
52
AREA
720824
HEIGHT
506241
30-Jun-2024
14:58




**BEFORE**
MASS
51
AREA
454071
HEIGHT
213120
28-Jun-2024
10:05



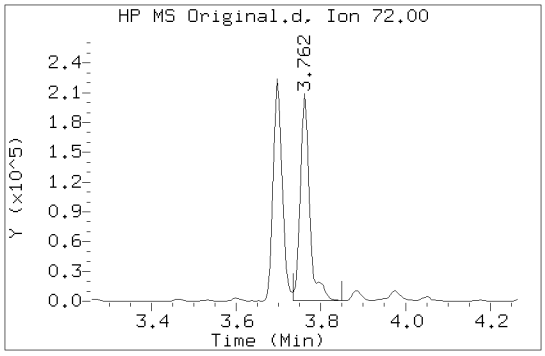

**AFTER**
MASS
51
AREA
454071
HEIGHT
213120
30-Jun-2024
14:58



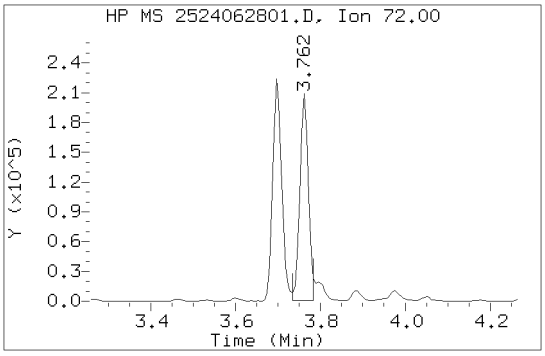

## 2-Butanone (78-93-3)

Reason Code: MP

**BEFORE**
MASS
72
AREA
322492
HEIGHT
208632
28-Jun-2024
10:05




**AFTER**
MASS
72
AREA
293285
HEIGHT
208633
30-Jun-2024
14:58

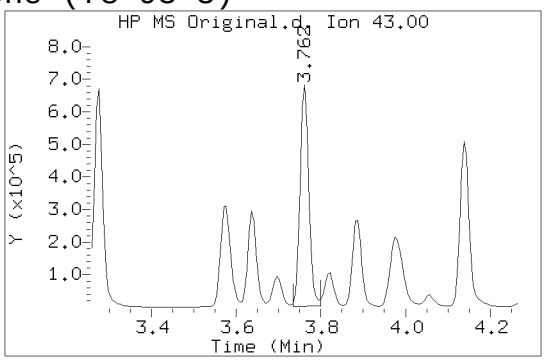


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Inj Date : 28-JUN-2024 09:53
InstruID : ms25.i
LabSampID : 1800

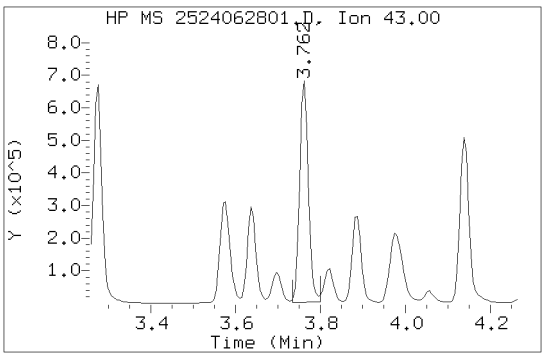
## 2-Butanone (78-93-3)

Reason Code: MP

BEFORE
MASS
43
AREA
975340
HEIGHT
679462
28-Jun-2024
10:05



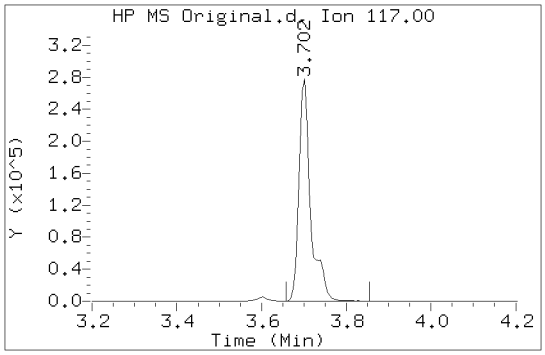

AFTER
MASS
43
AREA
975340
HEIGHT
679462
30-Jun-2024
14:58



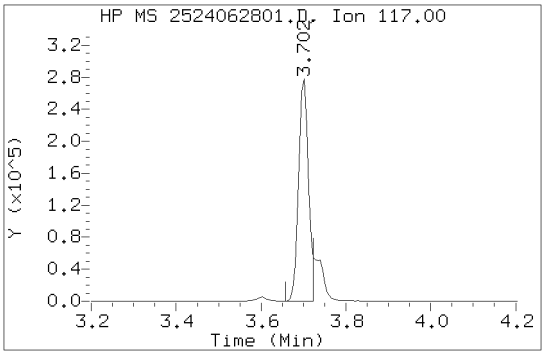

## Carbon Tetrachloride (56-23-5)

Reason Code: MP

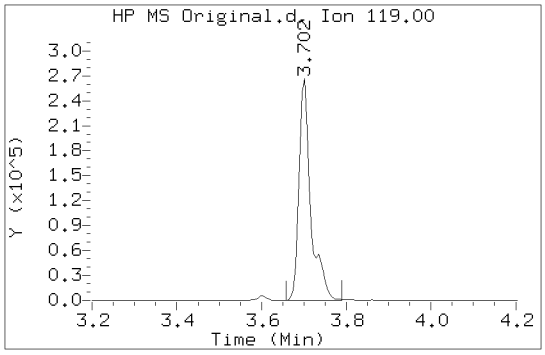
BEFORE
MASS
117
AREA
535489
HEIGHT
277786
28-Jun-2024
10:05



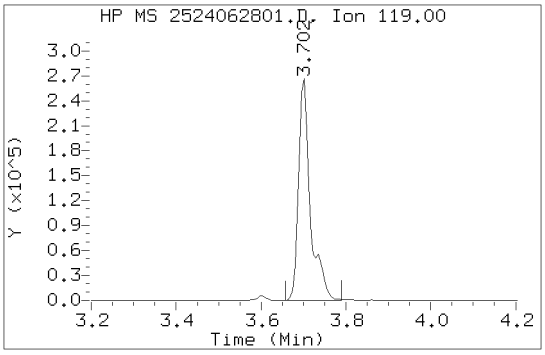

AFTER
MASS
117
AREA
456704
HEIGHT
277786
30-Jun-2024
14:58



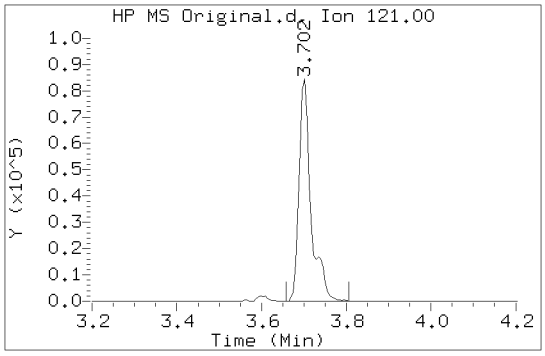

BEFORE
MASS
119
AREA
517595
HEIGHT
266560
28-Jun-2024
10:05



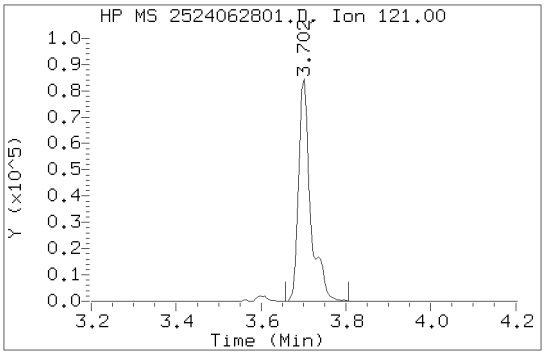

AFTER
MASS
119
AREA
517595
HEIGHT
266560
30-Jun-2024
14:58




BEFORE
MASS
121
AREA
166401
HEIGHT
84520
28-Jun-2024
10:05




AFTER
MASS
121
AREA
166401
HEIGHT
84520
30-Jun-2024
14:58

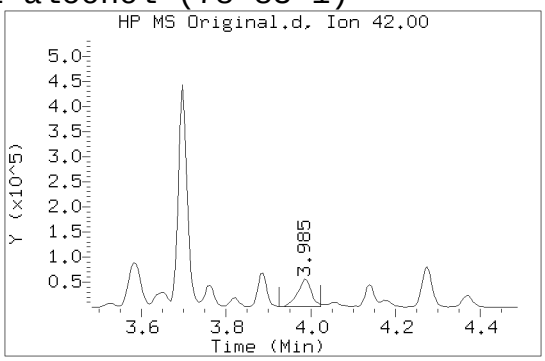


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InstruID : ms25.i
LabSampID : 1800

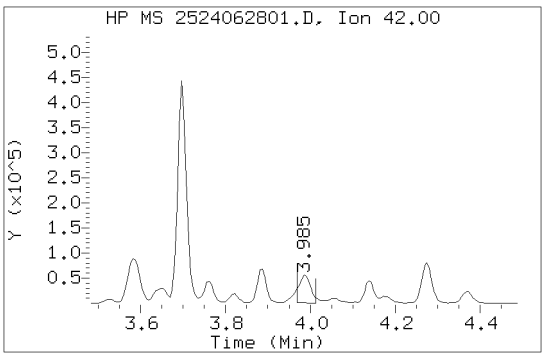
## Isobutyl alcohol (78-83-1)

Reason Code: MP

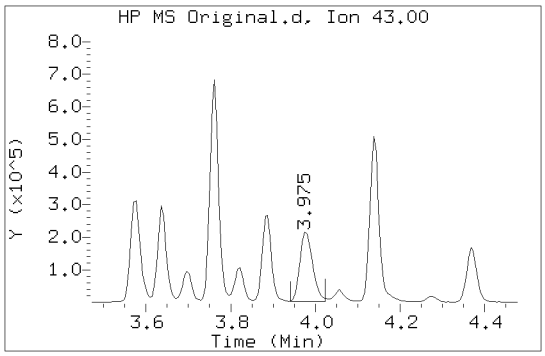
**BEFORE**
MASS
42
AREA
121733
HEIGHT
55301
28-Jun-2024
10:05



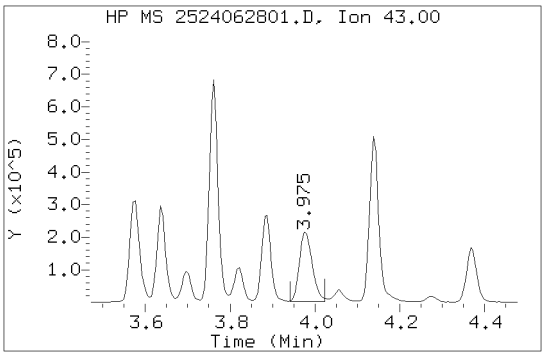

**AFTER**
MASS
42
AREA
103812
HEIGHT
55939
30-Jun-2024
14:58



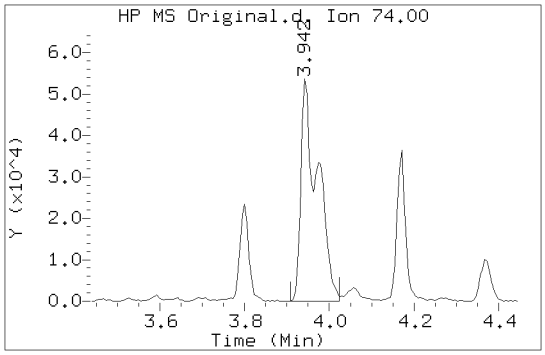

**BEFORE**
MASS
43
AREA
453991
HEIGHT
214247
28-Jun-2024
10:05



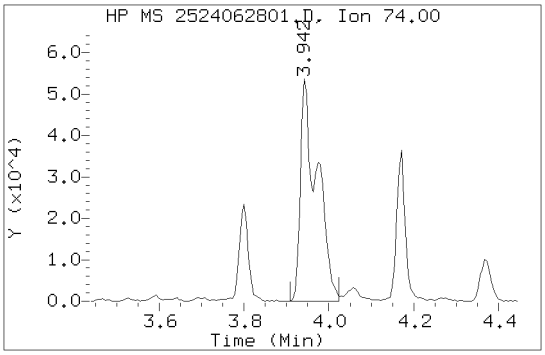

**AFTER**
MASS
43
AREA
453991
HEIGHT
214247
30-Jun-2024
14:58




**BEFORE**
MASS
74
AREA
146437
HEIGHT
53648
28-Jun-2024
10:05



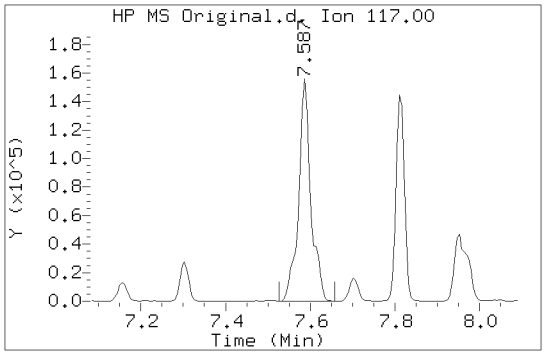

**AFTER**
MASS
74
AREA
146437
HEIGHT
53648
30-Jun-2024
14:58



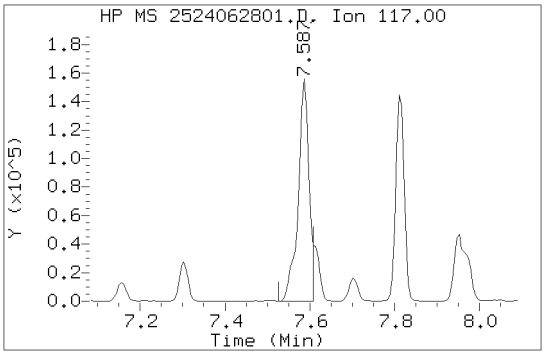

## Pentachloroethane (76-01-7)

Reason Code:

**BEFORE**
MASS
117
AREA
312328
HEIGHT
155840
28-Jun-2024
10:05




**AFTER**
MASS
117
AREA
280902
HEIGHT
155840
30-Jun-2024
14:58

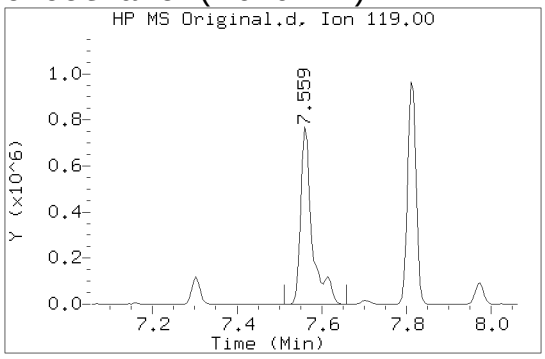


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Inj Date : 28-JUN-2024 09:53
InstruID : ms25.i
LabSampID : 1800

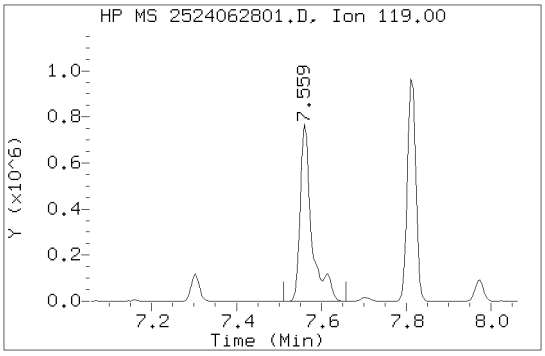
## Pentachloroethane (76-01-7)

Reason Code:

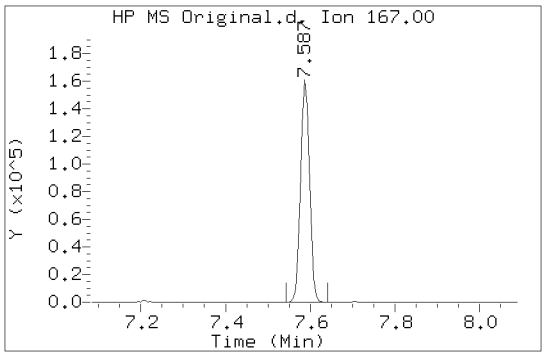
BEFORE
MASS
119
AREA
1459316
HEIGHT
769984
28-Jun-2024
10:05



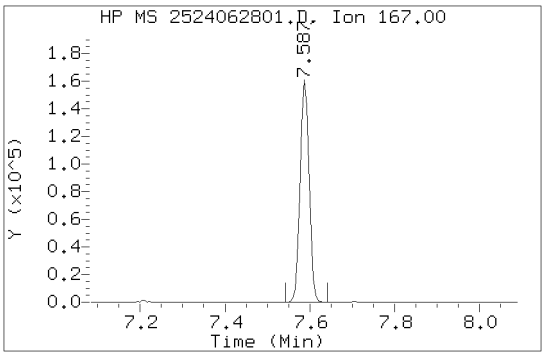

AFTER
MASS
119
AREA
1459316
HEIGHT
769984
30-Jun-2024
14:58




BEFORE
MASS
167
AREA
238559
HEIGHT
160896
28-Jun-2024
10:05



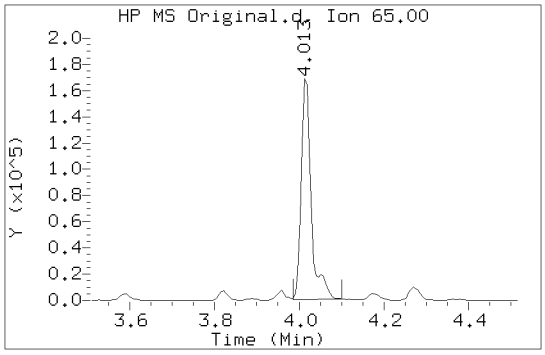

AFTER
MASS
167
AREA
238559
HEIGHT
160896
30-Jun-2024
14:58



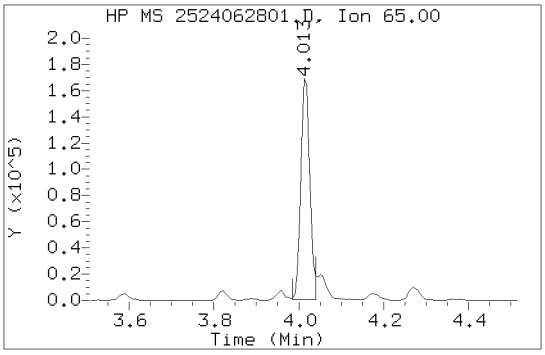

## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

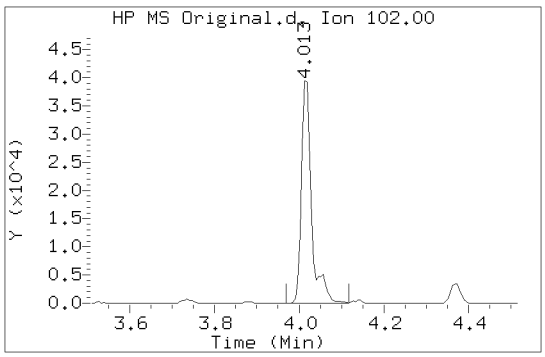
BEFORE
MASS
65
AREA
277198
HEIGHT
168554
28-Jun-2024
10:05



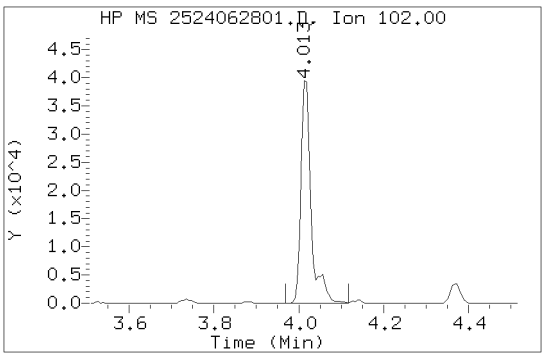

AFTER
MASS
65
AREA
250186
HEIGHT
168554
30-Jun-2024
14:58




BEFORE
MASS
102
AREA
66291
HEIGHT
39432
28-Jun-2024
10:05




AFTER
MASS
102
AREA
66291
HEIGHT
39432
30-Jun-2024
14:58



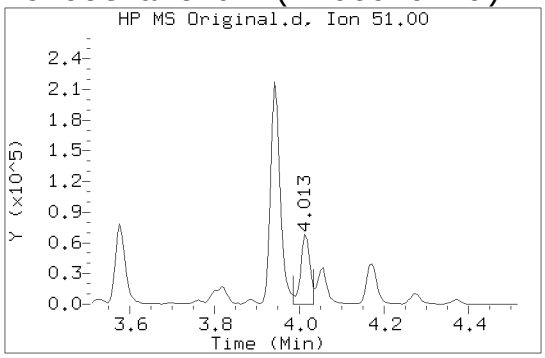
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Inj Date : 28-JUN-2024 09:53
InstruID : ms25.i
LabSampID : 1800

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

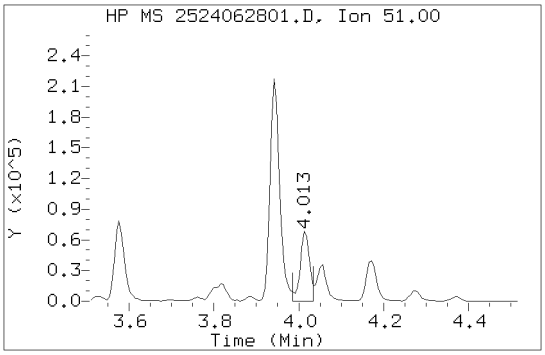
BEFORE

MASS
51
AREA
106137
HEIGHT
68238
28-Jun-2024
10:05




AFTER

MASS
51
AREA
106137
HEIGHT
68238
30-Jun-2024
14:58



# UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 14:58
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406280
Inj Date: 28-JUN-2024 09:53
Operator: TMP

There were no Unassigned peaks in this sample!

Data File: 2524062802.D Page 1
Report Date: 30-Jun-2024 15:00

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062802.D
Lab Smp Id: 3845976 Client Smp ID: LCS for HBN 1236144
Inj Date : 28-JUN-2024 10:23
Operator : TMP Inst ID: ms25.i
Smp Info : 3845976;;1;3;;LCS;1;
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.497 | 1.497 | (0.359) | 231494 | 20.1179 | 20.1179 | |
| 2 Chloromethane | 50 | 1.644 | 1.644 | (0.394) | 202494 | 20.0810 | 20.0810 | |
| 3 Vinyl Chloride | 62 | 1.704 | 1.704 | (0.409) | 256702 | 19.7339 | 19.7339 | |
| 4 Bromomethane | 94 | 1.922 | 1.922 | (0.461) | 126243 | 20.0141 | 20.0141 | |
| 5 Chloroethane | 64 | 1.999 | 2.004 | (0.479) | 180018 | 20.3059 | 20.3059 | |
| 6 Pentane | 41 | 2.086 | 2.092 | (0.500) | 172226 | 20.6347 | 20.6347 | |
| 7 Trichlorofluoromethane | 101 | 2.092 | 2.097 | (0.502) | 343768 | 19.2935 | 19.2935 | |
| 8 Dichlorofluoromethane | 67 | 2.124 | 2.124 | (0.509) | 355400 | 21.5567 | 21.5567 | |
| 9 Ethyl Ether | 74 | 2.277 | 2.277 | (0.546) | 106843 | 21.3110 | 21.3110 | |
| 10 1,1-Dichloroethene | 61 | 2.408 | 2.414 | (0.577) | 215374 | 21.5281 | 21.5281 | |
| 12 Carbon Disulfide | 76 | 2.446 | 2.446 | (0.587) | 455997 | 21.1293 | 21.1293 | |
| 11 Freon 113 | 101 | 2.424 | 2.424 | (0.581) | 149869 | 21.2984 | 21.2984 | |
| 13 Iodomethane | 127 | 2.506 | 2.506 | (0.601) | 73359 | 19.2324 | 19.2324 | |
| 14 Acrolein | 56 | 2.599 | 2.599 | (0.623) | 250559 | 155.270 | 155.270 | |
| 16 3-Chloro-1-propene | 41 | 2.675 | 2.681 | (0.642) | 184153 | 21.2251 | 21.2251 | |
| 15 Isopropyl Alcohol | 45 | 2.654 | 2.654 | (0.636) | 49756 | 92.3501 | 92.3501 | |
| 17 Methylene Chloride | 84 | 2.735 | 2.741 | (0.656) | 175173 | 21.4358 | 21.4358 | |
| 18 Acetone | 58 | 2.752 | 2.752 | (0.660) | 97878 | 108.106 | 108.106 | |
| 19 Methyl acetate | 74 | 2.817 | 2.817 | (0.676) | 35247 | 18.6897 | 18.6897 | |
| 20 trans-1,2-Dichloroethene | 61 | 2.828 | 2.828 | (0.678) | 211089 | 21.5428 | 21.5428 | |
| 21 Hexane | 57 | 2.861 | 2.866 | (0.686) | 339205 | 20.6399 | 20.6399 | |
| 22 Methyl t-Butyl Ether | 73 | 2.872 | 2.872 | (0.689) | 487666 | 19.5409 | 19.5409 | |

Data File: 2524062802.D Page 2
Report Date: 30-Jun-2024 15:00

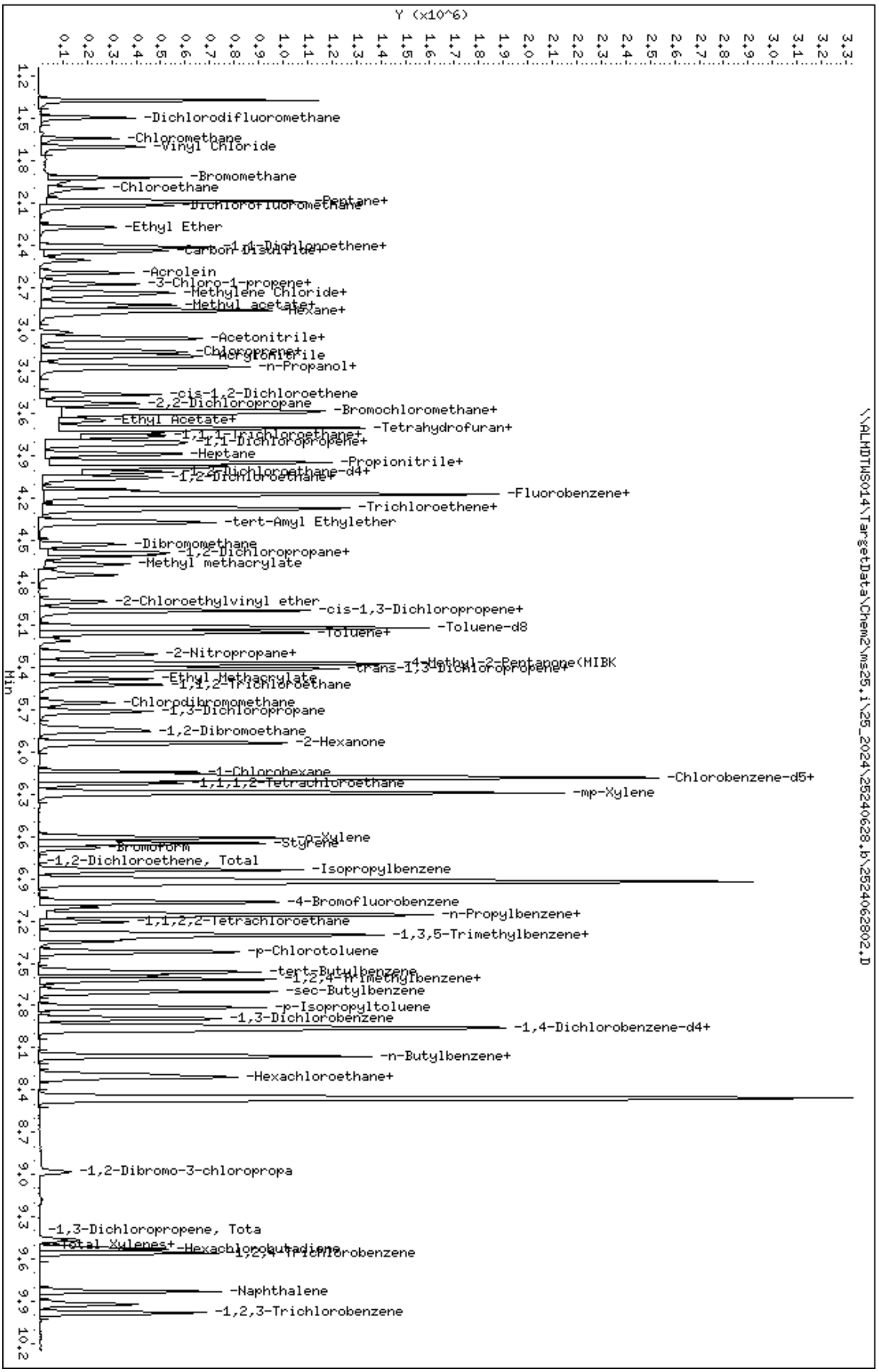
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 23 tert.- Butyl Alcohol | 59 | 2.899 | 2.894 | (0.695) | 91568 | 101.310 | 101.310 | |
| | 24 Acetonitrile | 41 | 3.019 | 3.019 | (0.724) | 107091 | 105.776 | 105.776 | |
| | 25 Diisopropyl ether | 45 | 3.063 | 3.063 | (0.734) | 467800 | 21.5114 | 21.5114 | |
| | 26 Chloroprene | 53 | 3.150 | 3.156 | (0.755) | 174316 | 15.8106 | 15.8106(Q) | |
| | 27 1,1-Dichloroethane | 63 | 3.167 | 3.167 | (0.759) | 278259 | 20.8442 | 20.8442 | |
| | 28 Acrylonitrile | 53 | 3.188 | 3.188 | (0.765) | 425900 | 122.502 | 122.502(Q) | |
| | 30 n-Propanol | 41 | 3.265 | 3.265 | (0.783) | 87932 | 205.244 | 205.244 | |
| | 29 Ethyl tert-butyl ether | 59 | 3.265 | 3.265 | (0.783) | 500124 | 21.6534 | 21.6534 | |
| | 31 Vinyl acetate | 86 | 3.276 | 3.276 | (0.785) | 38750 | 17.2582 | 17.2582(Q) | |
| | 32 cis-1,2-Dichloroethene | 61 | 3.461 | 3.461 | (0.830) | 209928 | 21.1296 | 21.1296 | |
| | 33 2,2-Dichloropropane | 77 | 3.527 | 3.527 | (0.846) | 226731 | 21.3100 | 21.3100 | |
| M | 100 1,2-Dichloroethene, Total | 61 | | | | 421017 | 42.6723 | 42.6723 | |
| | 34 Bromochloromethane | 128 | 3.576 | 3.576 | (0.857) | 90818 | 21.1969 | 21.1969 | |
| | 35 Cyclohexane | 84 | 3.587 | 3.592 | (0.860) | 249682 | 20.9444 | 20.9444 | |
| | 36 Chloroform | 83 | 3.598 | 3.598 | (0.863) | 300003 | 20.8174 | 20.8174 | |
| | 37 Ethyl acetate | 43 | 3.636 | 3.636 | (0.872) | 162550 | 18.7580 | 18.7580 | |
| | 38 Methyl acrylate | 55 | 3.652 | 3.652 | (0.876) | 166492 | 20.8105 | 20.8105 | |
| | 39 Carbon Tetrachloride | 117 | 3.696 | 3.701 | (0.886) | 181999 | 17.4434 | 17.4434(M) | MP |
| | 40 Tetrahydrofuran | 42 | 3.696 | 3.696 | (0.886) | 243277 | 99.4669 | 99.4669 | |
| $ | 41 Dibromofluoromethane | 113 | 3.701 | 3.707 | (0.887) | 243373 | 29.6597 | 29.6597 | |
| | 42 1,1,1-Trichloroethane | 97 | 3.734 | 3.734 | (0.895) | 241257 | 21.5082 | 21.5082 | |
| | 43 2-Butanone | 72 | 3.761 | 3.761 | (0.902) | 122737 | 103.807 | 103.807(M) | MP |
| | 44 1,1-Dichloropropene | 75 | 3.799 | 3.799 | (0.911) | 218128 | 20.5582 | 20.5582 | |
| | 45 1-Chlorobutane | 41 | 3.816 | 3.821 | (0.915) | 145599 | 21.3387 | 21.3387 | |
| | 46 Heptane | 71 | 3.887 | 3.887 | (0.932) | 135221 | 21.9359 | 21.9359 | |
| | 48 Propionitrile | 54 | 3.941 | 3.941 | (0.945) | 138285 | 105.037 | 105.037 | |
| | 47 Benzene | 78 | 3.941 | 3.941 | (0.945) | 647800 | 19.8637 | 19.8637 | |
| | 49 Methacrylonitrile | 67 | 3.952 | 3.952 | (0.948) | 82372 | 20.8717 | 20.8717 | |
| | 50 tert-amyl methyl Ether | 73 | 3.974 | 3.974 | (0.953) | 481050 | 21.5763 | 21.5763 | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.012 | 4.012 | (0.962) | 263383 | 30.4494 | 30.4494(M) | MP |
| | 54 Isobutyl alcohol | 42 | 3.990 | 3.985 | (0.957) | 34767 | 175.782 | 175.782(QM) | MP |
| | 52 1,2-Dichloroethane | 62 | 4.050 | 4.056 | (0.971) | 201940 | 19.6977 | 19.6977 | |
| | 53 tert-Amyl Alcohol | 59 | 4.056 | 4.056 | (0.973) | 71704 | 103.400 | 103.400 | |
| * | 55 Fluorobenzene | 96 | 4.171 | 4.171 | (1.000) | 1039946 | 30.0000 | | |
| | 56 Diisobutylene | 57 | 4.176 | 4.176 | (1.001) | 412226 | 19.5821 | 19.5821 | |
| | 57 Trichloroethene | 95 | 4.269 | 4.269 | (1.024) | 166800 | 20.2090 | 20.2090 | |
| | 58 Methyl cyclohexane | 83 | 4.274 | 4.274 | (0.692) | 268267 | 20.9059 | 20.9059 | |
| | 59 tert-Amyl Ethylether | 59 | 4.367 | 4.367 | (1.047) | 356901 | 18.5302 | 18.5302 | |
| | 60 Dibromomethane | 93 | 4.525 | 4.525 | (1.085) | 105436 | 20.2070 | 20.2070 | |
| | 61 1,2-Dichloropropane | 63 | 4.585 | 4.585 | (1.099) | 163300 | 20.8051 | 20.8051 | |
| | 62 Bromodichloromethane | 83 | 4.607 | 4.607 | (1.105) | 203412 | 18.8398 | 18.8398 | |
| | 63 Methyl methacrylate | 41 | 4.667 | 4.667 | (1.119) | 128785 | 20.7318 | 20.7318 | |
| | 65 2-Chloroethylvinyl ether | 63 | 4.934 | 4.934 | (1.183) | 109540 | 19.2984 | 19.2984 | |
| | 66 cis-1,3-Dichloropropene | 75 | 4.994 | 4.994 | (0.809) | 249923 | 18.8502 | 18.8502 | |
| | 67 Octane | 85 | 5.000 | 5.000 | (0.810) | 127294 | 26.1627 | 26.1627(R) | |
| $ | 68 Toluene-d8 | 98 | 5.114 | 5.120 | (0.829) | 950149 | 30.3358 | 30.3358 | |
| | 69 Toluene | 92 | 5.153 | 5.153 | (0.835) | 389709 | 19.6308 | 19.6308 | |
| | 70 Chloroacetonitrile | 75 | 5.213 | 5.213 | (0.844) | 51068 | 103.192 | 103.192 | |
| | 71 2-Nitropropane | 41 | 5.300 | 5.300 | (0.859) | 187593 | 87.3976 | 87.3976 | |
| | 72 1,1-Dichloro-2-propanone | 63 | 5.311 | 5.316 | (0.860) | 17821 | 85.9578 | 85.9578(Q) | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.371 | 5.371 | (0.870) | 808385 | 103.708 | 103.708 | |
| | 75 trans-1,3-Dichloropropene | 75 | 5.409 | 5.409 | (0.876) | 240414 | 19.5802 | 19.5802 | |
| | 74 Tetrachloroethene | 164 | 5.409 | 5.409 | (0.876) | 145946 | 20.1896 | 20.1896 | |
| | 76 Ethyl methacrylate | 69 | 5.480 | 5.480 | (0.888) | 225465 | 19.0396 | 19.0396 | |

Data File: 2524062802.D Page 3
Report Date: 30-Jun-2024 15:00

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 77 1,1,2-Trichloroethane | 83 | 5.524 | 5.524 | (0.895) | 126511 | 20.7415 | 20.7415 | |
| | 78 Chlorodibromomethane | 129 | 5.649 | 5.649 | (0.915) | 154283 | 18.0809 | 18.0809 | |
| | 79 1,3-Dichloropropane | 76 | 5.715 | 5.715 | (0.926) | 260665 | 21.6300 | 21.6300 | |
| | 80 1,2-Dibromoethane | 107 | 5.829 | 5.829 | (0.944) | 152760 | 18.9619 | 18.9619 | |
| | 81 2-Hexanone | 43 | 5.933 | 5.933 | (0.961) | 551268 | 103.152 | 103.152 | |
| | 82 1-Chlorohexane | 91 | 6.146 | 6.146 | (0.996) | 221200 | 21.1803 | 21.1803 | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.173 | (1.000) | 395604 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | 6.189 | 6.189 | (1.003) | 227417 | 19.1436 | 19.1436 | |
| | 84 Chlorobenzene | 112 | 6.184 | 6.184 | (1.002) | 415957 | 20.5609 | 20.5609 | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | 6.222 | 6.222 | (1.008) | 144525 | 19.1183 | 19.1183 | |
| | 87 mp-Xylene | 106 | 6.288 | 6.288 | (1.019) | 552630 | 38.8678 | 38.8678 | |
| M | 120 1,3-Dichloropropene, Total | 75 | | | | 490337 | 38.4304 | 38.4304 | |
| | 88 o-Xylene | 106 | 6.610 | 6.610 | (1.071) | 259660 | 19.2872 | 19.2872 | |
| | 89 Styrene | 104 | 6.648 | 6.648 | (0.836) | 405336 | 21.2208 | 21.2208 | |
| | 90 Bromoform | 173 | 6.680 | 6.680 | (0.840) | 97012 | 18.0686 | 18.0686 | |
| | 91 Isopropylbenzene | 105 | 6.839 | 6.839 | (0.860) | 646497 | 24.1574 | 24.1574 | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 262843 | 29.1841 | 29.1841 | |
| M | 121 TOTAL XYLENES | 106 | | | | 812290 | 58.1550 | 58.1550 | |
| | 94 n-Propylbenzene | 120 | 7.155 | 7.155 | (0.900) | 166113 | 21.1049 | 21.1049 | |
| | 93 Bromobenzene | 156 | 7.155 | 7.155 | (0.900) | 154585 | 20.0835 | 20.0835 | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | 7.204 | 7.204 | (0.906) | 165022 | 21.5705 | 21.5705 | |
| | 97 1,3,5-Trimethylbenzene | 105 | 7.303 | 7.303 | (0.918) | 463354 | 21.1526 | 21.1526 | |
| | 96 o-Chlorotoluene | 91 | 7.292 | 7.292 | (0.917) | 443949 | 21.4384 | 21.4384 | |
| | 98 1,2,3-Trichloropropane | 110 | 7.324 | 7.324 | (0.921) | 52367 | 21.2231 | 21.2231 | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | 7.346 | 7.346 | (0.924) | 45078 | 19.3804 | 19.3804 | |
| | 101 p-Chlorotoluene | 91 | 7.417 | 7.417 | (0.933) | 420066 | 22.3950 | 22.3950 | |
| | 102 tert-Butylbenzene | 134 | 7.559 | 7.559 | (0.951) | 118054 | 22.5335 | 22.5335 | |
| | 103 Pentachloroethane | 117 | 7.586 | 7.586 | (0.954) | 96827 | 18.5894 | 18.5894(QM) | MP |
| | 104 1,2,4-Trimethylbenzene | 105 | 7.614 | 7.614 | (0.957) | 469155 | 20.1355 | 20.1355 | |
| | 105 sec-Butylbenzene | 105 | 7.701 | 7.701 | (0.968) | 620753 | 22.9286 | 22.9286 | |
| | 106 p-Isopropyltoluene | 134 | 7.810 | 7.815 | (0.982) | 134907 | 21.7599 | 21.7599 | |
| | 107 1,3-Dichlorobenzene | 146 | 7.892 | 7.892 | (0.992) | 286011 | 22.0560 | 22.0560 | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 325554 | 30.0000 | | |
| | 109 1,4-Dichlorobenzene | 146 | 7.963 | 7.963 | (1.001) | 294406 | 21.7810 | 21.7810 | |
| | 111 n-Butylbenzene | 134 | 8.159 | 8.159 | (1.026) | 123630 | 21.3384 | 21.3384 | |
| | 110 Benzyl Chloride | 126 | 8.159 | 8.159 | (1.026) | 57697 | 18.1113 | 18.1113(Q) | |
| | 112 Hexachloroethane | 117 | 8.290 | 8.290 | (1.043) | 84110 | 18.3529 | 18.3529 | |
| | 113 1,2-Dichlorobenzene | 146 | 8.312 | 8.312 | (1.045) | 270878 | 21.9293 | 21.9293 | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | 8.983 | 8.983 | (1.130) | 27345 | 18.9493 | 18.9493 | |
| | 115 Nitrobenzene | 77 | 9.463 | 9.463 | (1.190) | 72687 | 164.996 | 164.996 | |
| | 116 Hexachlorobutadiene | 225 | 9.529 | 9.529 | (1.198) | 91996 | 22.6501 | 22.6501 | |
| | 117 1,2,4-Trichlorobenzene | 180 | 9.556 | 9.556 | (1.202) | 197198 | 24.1070 | 24.1070 | |
| | 118 Naphthalene | 128 | 9.829 | 9.829 | (1.236) | 474430 | 19.9252 | 19.9252 | |
| | 119 1,2,3-Trichlorobenzene | 180 | 9.982 | 9.982 | (1.255) | 177185 | 19.4574 | 19.4574 | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.




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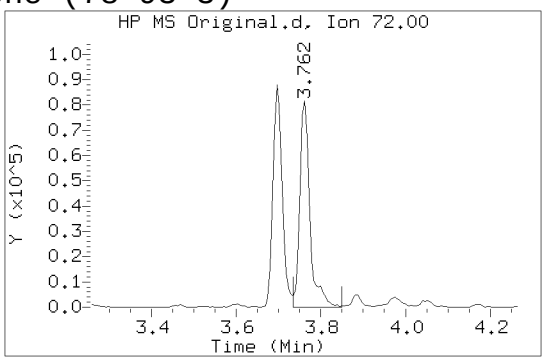
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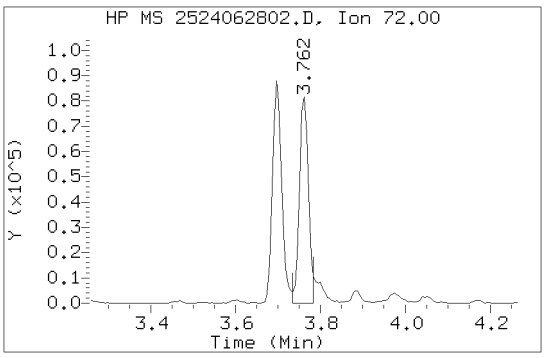
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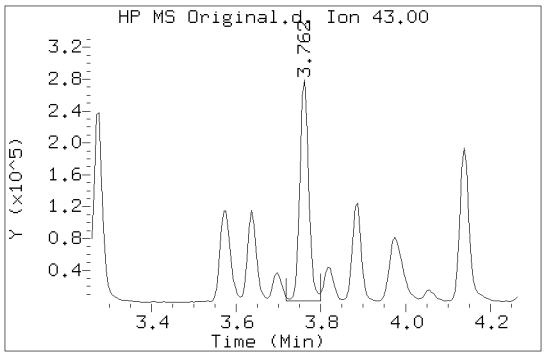
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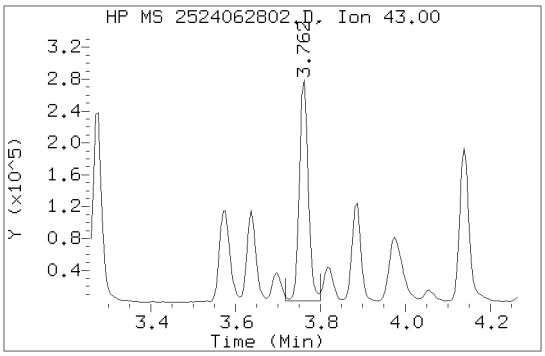

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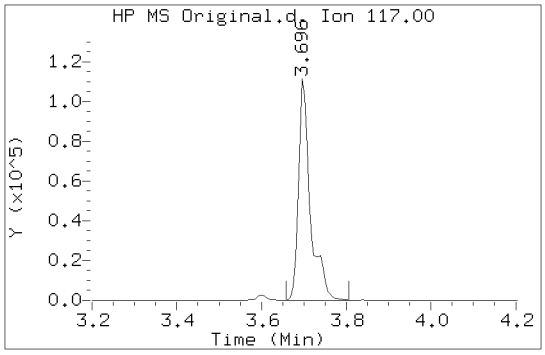

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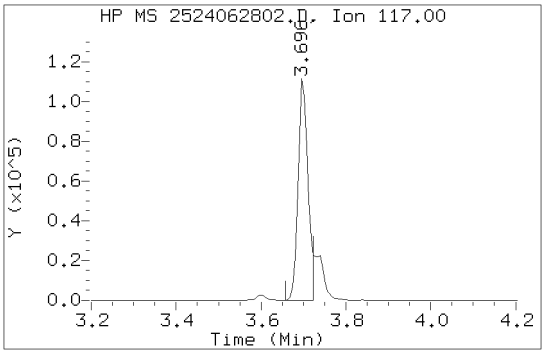

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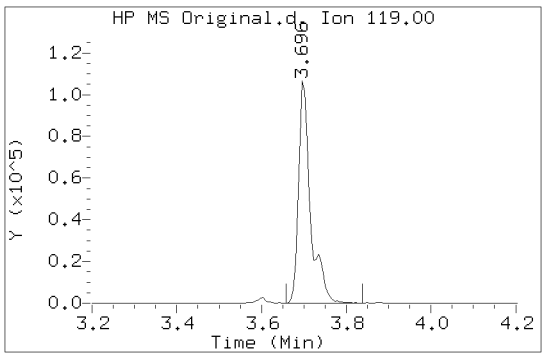
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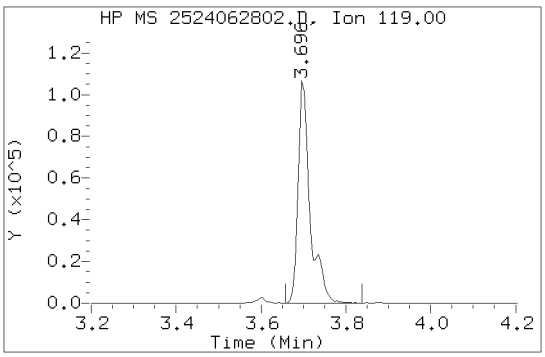

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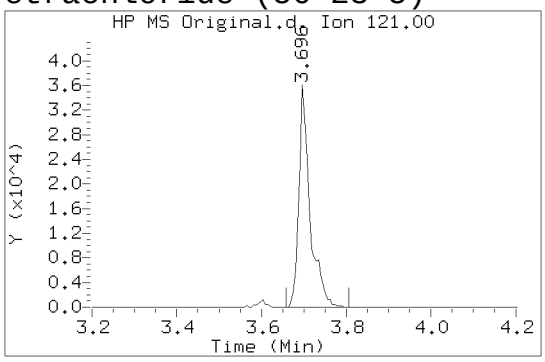


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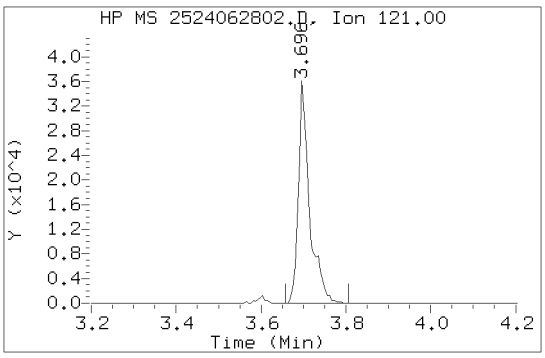
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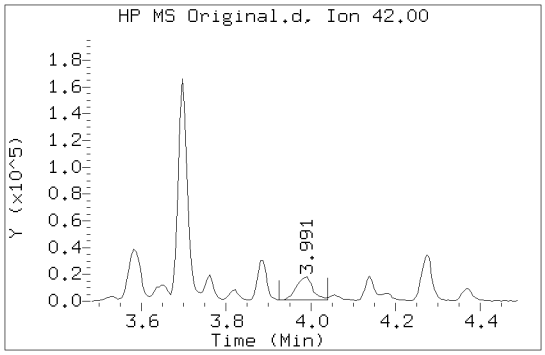

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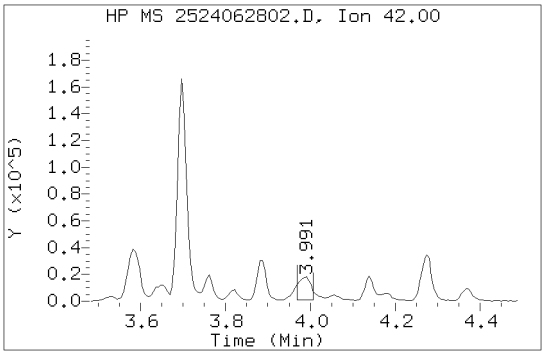

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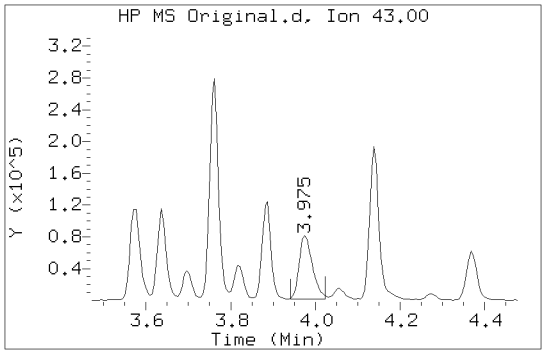
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28-Jun-2024
10:37



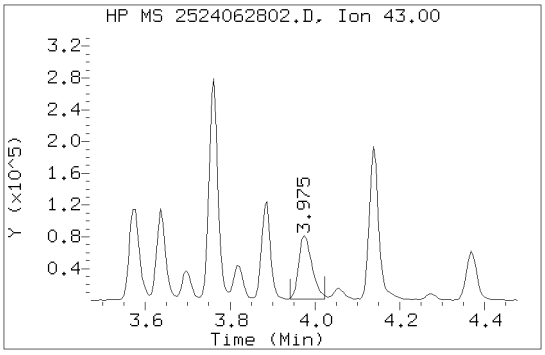

**AFTER**
MASS
42
AREA
34767
HEIGHT
17064
30-Jun-2024
15:00



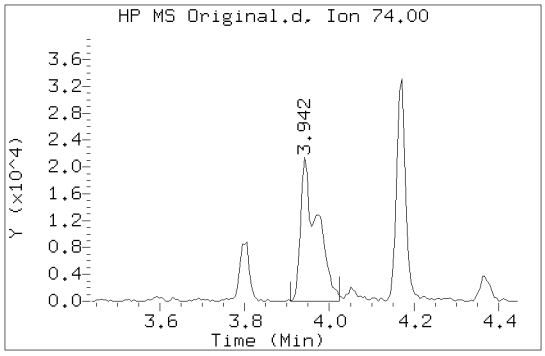

**BEFORE**
MASS
43
AREA
175860
HEIGHT
80369
28-Jun-2024
10:37



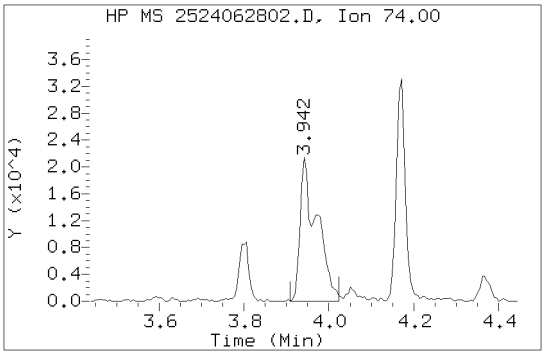

**AFTER**
MASS
43
AREA
175860
HEIGHT
80369
30-Jun-2024
15:00




**BEFORE**
MASS
74
AREA
58740
HEIGHT
21480
28-Jun-2024
10:37




**AFTER**
MASS
74
AREA
58740
HEIGHT
21480
30-Jun-2024
15:00

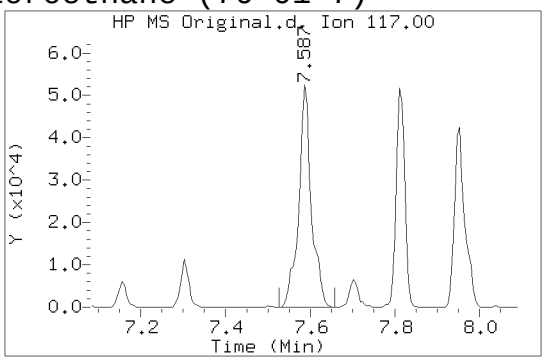


Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062802.D
Inj Date : 28-JUN-2024 10:23
InstruID : ms25.i
LabSampID : 3845976

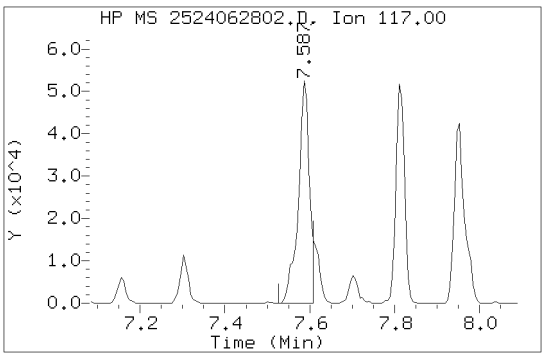
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Reason Code: MP

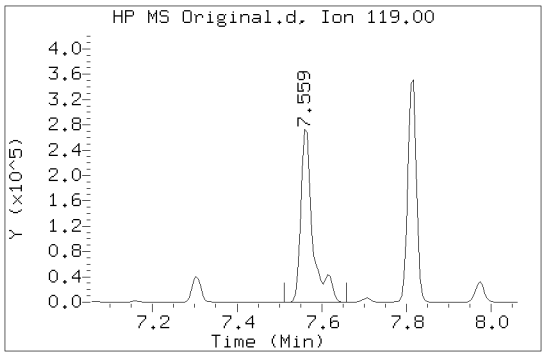
BEFORE
MASS
117
AREA
108579
HEIGHT
52472
28-Jun-2024
10:37



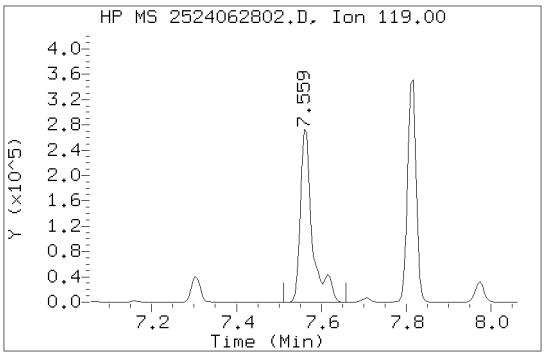

AFTER
MASS
117
AREA
96827
HEIGHT
52472
30-Jun-2024
15:00



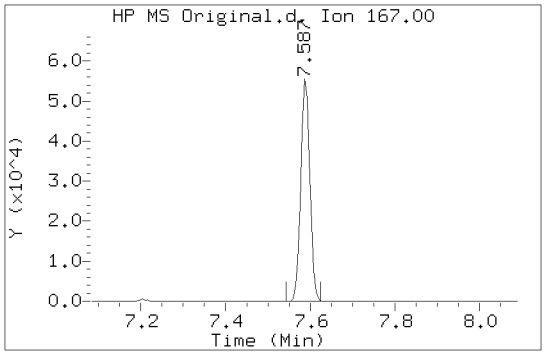

BEFORE
MASS
119
AREA
538948
HEIGHT
273088
28-Jun-2024
10:37



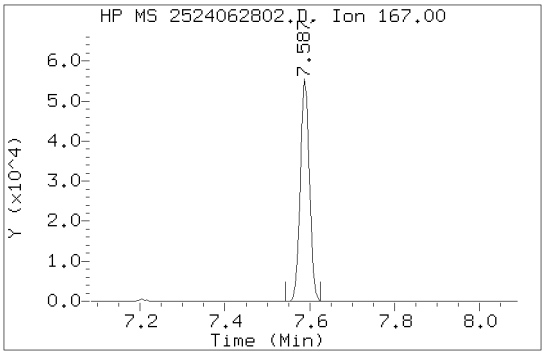

AFTER
MASS
119
AREA
538948
HEIGHT
273088
30-Jun-2024
15:00




BEFORE
MASS
167
AREA
82812
HEIGHT
55536
28-Jun-2024
10:37



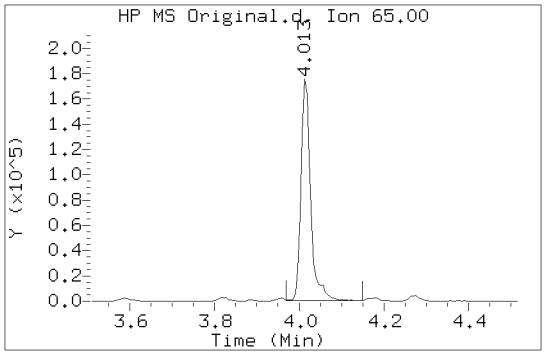

AFTER
MASS
167
AREA
82812
HEIGHT
55536
30-Jun-2024
15:00



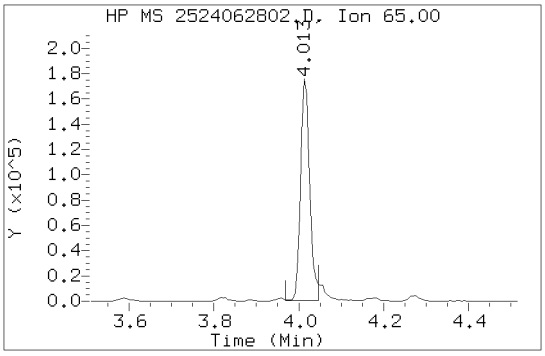

## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

BEFORE
MASS
65
AREA
279018
HEIGHT
175513
28-Jun-2024
10:37




AFTER
MASS
65
AREA
263383
HEIGHT
175513
30-Jun-2024
15:00

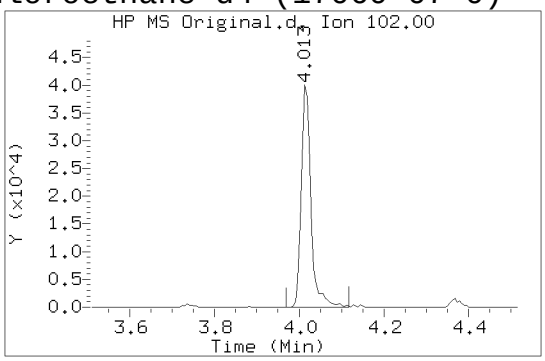


Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062802.D
Inj Date : 28-JUN-2024 10:23
InstruID : ms25.i
LabSampID : 3845976

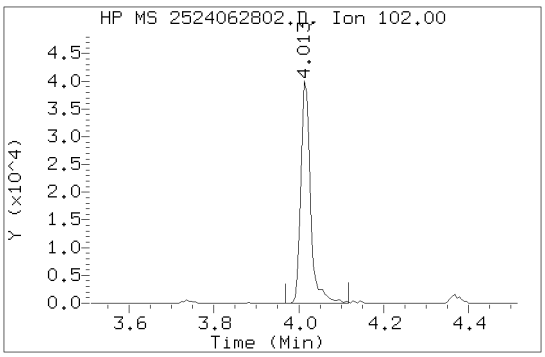
## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

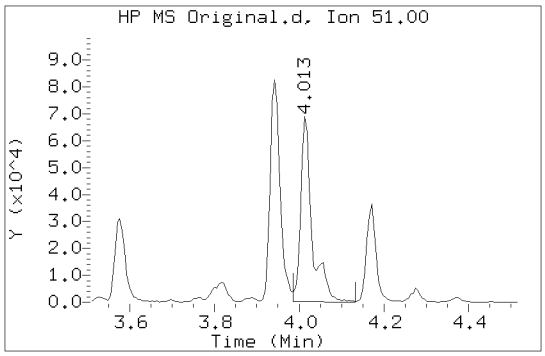
BEFORE
MASS
102
AREA
63884
HEIGHT
40056
28-Jun-2024
10:37



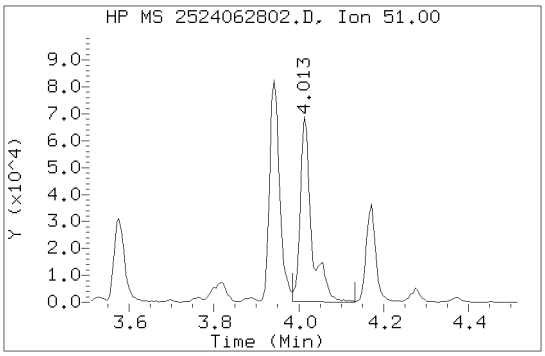

AFTER
MASS
102
AREA
63884
HEIGHT
40056
30-Jun-2024
15:00




BEFORE
MASS
51
AREA
129385
HEIGHT
68722
28-Jun-2024
10:37




AFTER
MASS
51
AREA
129385
HEIGHT
68722
30-Jun-2024
15:00



# UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:00
Client ID: LCS for HBN 1236144
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406280
Inj Date: 28-JUN-2024 10:23
Operator: TMP

There were no Unassigned peaks in this sample!

Data File: 2524062804.D Page 1
Report Date: 29-Jun-2024 09:39

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062804.D
Lab Smp Id: 3845975 Client Smp ID: MB for HBN 1236144
Inj Date : 28-JUN-2024 11:24
Operator : TMP Inst ID: ms25.i
Smp Info : 3845975;;1;3;;MB;;
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | | |
| 2 Chloromethane | 50 | Compound Not Detected. | | | | | | |
| 3 Vinyl Chloride | 62 | Compound Not Detected. | | | | | | |
| 4 Bromomethane | 94 | Compound Not Detected. | | | | | | |
| 5 Chloroethane | 64 | Compound Not Detected. | | | | | | |
| 6 Pentane | 41 | Compound Not Detected. | | | | | | |
| 7 Trichlorofluoromethane | 101 | Compound Not Detected. | | | | | | |
| 8 Dichlorofluoromethane | 67 | Compound Not Detected. | | | | | | |
| 9 Ethyl Ether | 74 | Compound Not Detected. | | | | | | |
| 10 1,1-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 12 Carbon Disulfide | 76 | Compound Not Detected. | | | | | | |
| 11 Freon 113 | 101 | Compound Not Detected. | | | | | | |
| 13 Iodomethane | 127 | Compound Not Detected. | | | | | | |
| 14 Acrolein | 56 | Compound Not Detected. | | | | | | |
| 16 3-Chloro-1-propene | 41 | Compound Not Detected. | | | | | | |
| 15 Isopropyl Alcohol | 45 | Compound Not Detected. | | | | | | |
| 17 Methylene Chloride | 84 | Compound Not Detected. | | | | | | |
| 18 Acetone | 58 | Compound Not Detected. | | | | | | |
| 19 Methyl acetate | 74 | Compound Not Detected. | | | | | | |
| 20 trans-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 21 Hexane | 57 | Compound Not Detected. | | | | | | |
| 22 Methyl t-Butyl Ether | 73 | Compound Not Detected. | | | | | | |

Data File: 2524062804.D Page 2
Report Date: 29-Jun-2024 09:39

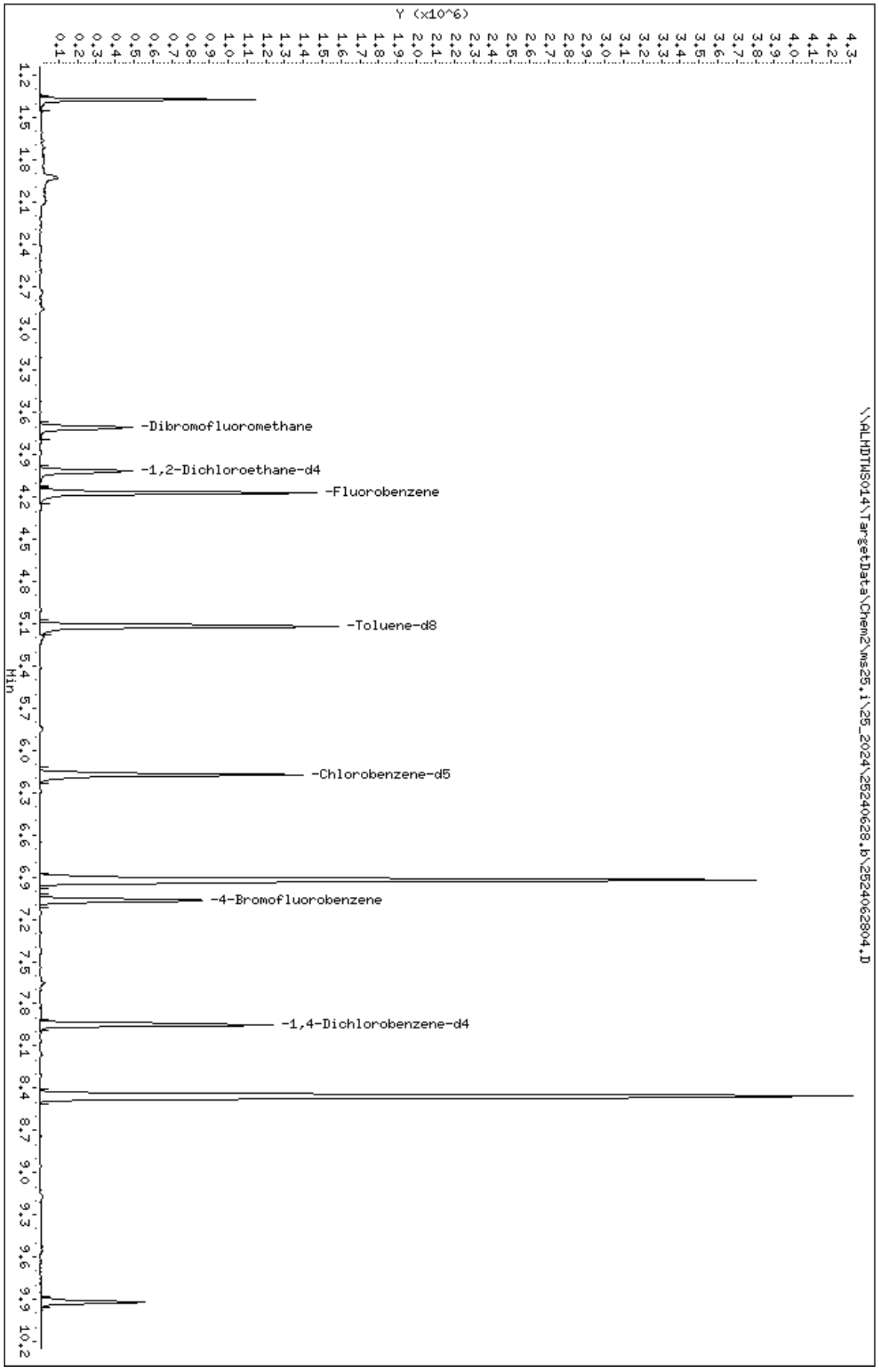
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 23 tert.- Butyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| | 24 Acetonitrile | 41 | Compound Not Detected. | | | | | | |
| | 25 Diisopropyl ether | 45 | Compound Not Detected. | | | | | | |
| | 26 Chloroprene | 53 | Compound Not Detected. | | | | | | |
| | 27 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | | |
| | 28 Acrylonitrile | 53 | Compound Not Detected. | | | | | | |
| | 30 n-Propanol | 41 | Compound Not Detected. | | | | | | |
| | 29 Ethyl tert-butyl ether | 59 | Compound Not Detected. | | | | | | |
| | 31 Vinyl acetate | 86 | Compound Not Detected. | | | | | | |
| | 32 cis-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| | 33 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | | |
| M | 100 1,2-Dichloroethene, Total | 61 | Compound Not Detected. | | | | | | |
| | 34 Bromochloromethane | 128 | Compound Not Detected. | | | | | | |
| | 35 Cyclohexane | 84 | Compound Not Detected. | | | | | | |
| | 36 Chloroform | 83 | Compound Not Detected. | | | | | | |
| | 37 Ethyl acetate | 43 | Compound Not Detected. | | | | | | |
| | 38 Methyl acrylate | 55 | Compound Not Detected. | | | | | | |
| | 39 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | | |
| | 40 Tetrahydrofuran | 42 | Compound Not Detected. | | | | | | |
| $ | 41 Dibromofluoromethane | 113 | 3.706 | 3.707 | (0.889) | 234435 | 27.6114 | 27.6114 | |
| | 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | | |
| | 43 2-Butanone | 72 | Compound Not Detected. | | | | | | |
| | 44 1,1-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 45 1-Chlorobutane | 41 | Compound Not Detected. | | | | | | |
| | 46 Heptane | 71 | Compound Not Detected. | | | | | | |
| | 48 Propionitrile | 54 | Compound Not Detected. | | | | | | |
| | 47 Benzene | 78 | Compound Not Detected. | | | | | | |
| | 49 Methacrylonitrile | 67 | Compound Not Detected. | | | | | | |
| | 50 tert-amyl methyl Ether | 73 | Compound Not Detected. | | | | | | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.012 | 4.012 | (0.962) | 274259 | 30.6424 | 30.6424 | |
| | 54 Isobutyl alcohol | 42 | Compound Not Detected. | | | | | | |
| | 52 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | | |
| | 53 tert-Amyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| * | 55 Fluorobenzene | 96 | 4.170 | 4.171 | (1.000) | 1076068 | 30.0000 | | |
| | 56 Diisobutylene | 57 | Compound Not Detected. | | | | | | |
| | 57 Trichloroethene | 95 | Compound Not Detected. | | | | | | |
| | 58 Methyl cyclohexane | 83 | Compound Not Detected. | | | | | | |
| | 59 tert-Amyl Ethylether | 59 | Compound Not Detected. | | | | | | |
| | 60 Dibromomethane | 93 | Compound Not Detected. | | | | | | |
| | 61 1,2-Dichloropropane | 63 | Compound Not Detected. | | | | | | |
| | 62 Bromodichloromethane | 83 | Compound Not Detected. | | | | | | |
| | 63 Methyl methacrylate | 41 | Compound Not Detected. | | | | | | |
| | 65 2-Chloroethylvinyl ether | 63 | Compound Not Detected. | | | | | | |
| | 66 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 67 Octane | 85 | Compound Not Detected. | | | | | | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 926112 | 30.3157 | 30.3157 | |
| | 69 Toluene | 92 | Compound Not Detected. | | | | | | |
| | 70 Chloroacetonitrile | 75 | Compound Not Detected. | | | | | | |
| | 71 2-Nitropropane | 41 | Compound Not Detected. | | | | | | |
| | 72 1,1-Dichloro-2-propanone | 63 | Compound Not Detected. | | | | | | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | Compound Not Detected. | | | | | | |
| | 75 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 74 Tetrachloroethene | 164 | Compound Not Detected. | | | | | | |
| | 76 Ethyl methacrylate | 69 | Compound Not Detected. | | | | | | |

Data File: 2524062804.D Page 3
Report Date: 29-Jun-2024 09:39

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 77 1,1,2-Trichloroethane | 83 | Compound Not Detected. | | | | | | |
| | 78 Chlorodibromomethane | 129 | Compound Not Detected. | | | | | | |
| | 79 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | | |
| | 80 1,2-Dibromoethane | 107 | Compound Not Detected. | | | | | | |
| | 81 2-Hexanone | 43 | Compound Not Detected. | | | | | | |
| | 82 1-Chlorohexane | 91 | Compound Not Detected. | | | | | | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.173 | (1.000) | 385851 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | Compound Not Detected. | | | | | | |
| | 84 Chlorobenzene | 112 | Compound Not Detected. | | | | | | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | | |
| | 87 mp-Xylene | 106 | Compound Not Detected. | | | | | | |
| M | 120 1,3-Dichloropropene, Total | 75 | Compound Not Detected. | | | | | | |
| | 88 o-Xylene | 106 | Compound Not Detected. | | | | | | |
| | 89 Styrene | 104 | Compound Not Detected. | | | | | | |
| | 90 Bromoform | 173 | Compound Not Detected. | | | | | | |
| | 91 Isopropylbenzene | 105 | Compound Not Detected. | | | | | | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 228407 | 26.8243 | 26.8243 | |
| M | 121 TOTAL XYLENES | 106 | Compound Not Detected. | | | | | | |
| | 94 n-Propylbenzene | 120 | Compound Not Detected. | | | | | | |
| | 93 Bromobenzene | 156 | Compound Not Detected. | | | | | | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | | |
| | 97 1,3,5-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 96 o-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 98 1,2,3-Trichloropropane | 110 | Compound Not Detected. | | | | | | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | Compound Not Detected. | | | | | | |
| | 101 p-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 102 tert-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 103 Pentachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 104 1,2,4-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 105 sec-Butylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 106 p-Isopropyltoluene | 134 | Compound Not Detected. | | | | | | |
| | 107 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 307789 | 30.0000 | | (Q) |
| | 109 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 111 n-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 110 Benzyl Chloride | 126 | Compound Not Detected. | | | | | | |
| | 112 Hexachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 113 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | Compound Not Detected. | | | | | | |
| | 115 Nitrobenzene | 77 | Compound Not Detected. | | | | | | |
| | 116 Hexachlorobutadiene | 225 | Compound Not Detected. | | | | | | |
| | 117 1,2,4-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |
| | 118 Naphthalene | 128 | Compound Not Detected. | | | | | | |
| | 119 1,2,3-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.




Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062804.D
Date : 28-JUN-2024 11:24
Client ID: MB for HBN 1236144
Sample Info: 3845975;;1;3;;MB;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: THP
Column diameter: 0.25

Page 1

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062804.D
Inj Date  : 28-JUN-2024 11:24
InstruID  : ms25.i
LabSampID : 3845975

NO MANUAL INTEGRATIONS

# UNASSIGNED PEAK REPORT

Report Date: 06/29/2024 09:39
Client ID: MB for HBN 1236144
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406280
Inj Date: 28-JUN-2024 11:24
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

| | |
|---|---|
| Acetonitrile | Acrolein |
| Benzyl Chloride | Bromoform |
| tert.- Butyl Alcohol | n-Butylbenzene |
| 1-Chlorohexane | 3-Chloro-1-propene |
| 1,3-Dichlorobenzene | 1,2-Dichloroethane |
| Ethyl methacrylate | Heptane |
| Hexachloroethane | Isopropylbenzene |
| Methacrylonitrile | 2-Nitropropane |
| 1,1,1,2-Tetrachloroethane | 1,2,3-Trichloropropane |
| 1,3,5-Trimethylbenzene | |

Data File: 2524062809.D Page 1
Report Date: 30-Jun-2024 15:05

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062809.D
Lab Smp Id: 3366027002 Client Smp ID: HS24061196-02
Inj Date : 28-JUN-2024 13:06
Operator : TMP Inst ID: ms25.i
Smp Info : 3366027002;;1;;;;;
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | | |
| 2 Chloromethane | 50 | Compound Not Detected. | | | | | | |
| 3 Vinyl Chloride | 62 | Compound Not Detected. | | | | | | |
| 4 Bromomethane | 94 | Compound Not Detected. | | | | | | |
| 5 Chloroethane | 64 | Compound Not Detected. | | | | | | |
| 6 Pentane | 41 | Compound Not Detected. | | | | | | |
| 7 Trichlorofluoromethane | 101 | Compound Not Detected. | | | | | | |
| 8 Dichlorofluoromethane | 67 | Compound Not Detected. | | | | | | |
| 9 Ethyl Ether | 74 | Compound Not Detected. | | | | | | |
| 10 1,1-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 12 Carbon Disulfide | 76 | Compound Not Detected. | | | | | | |
| 11 Freon 113 | 101 | 2.430 | 2.424 | (0.583) | 1920 | 0.27885 | 0.278851(a) | |
| 13 Iodomethane | 127 | Compound Not Detected. | | | | | | |
| 14 Acrolein | 56 | Compound Not Detected. | | | | | | |
| 16 3-Chloro-1-propene | 41 | Compound Not Detected. | | | | | | |
| 15 Isopropyl Alcohol | 45 | Compound Not Detected. | | | | | | |
| 17 Methylene Chloride | 84 | Compound Not Detected. | | | | | | |
| 18 Acetone | 58 | Compound Not Detected. | | | | | | |
| 19 Methyl acetate | 74 | Compound Not Detected. | | | | | | |
| 20 trans-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 21 Hexane | 57 | Compound Not Detected. | | | | | | |

Data File: 2524062809.D Page 2
Report Date: 30-Jun-2024 15:05

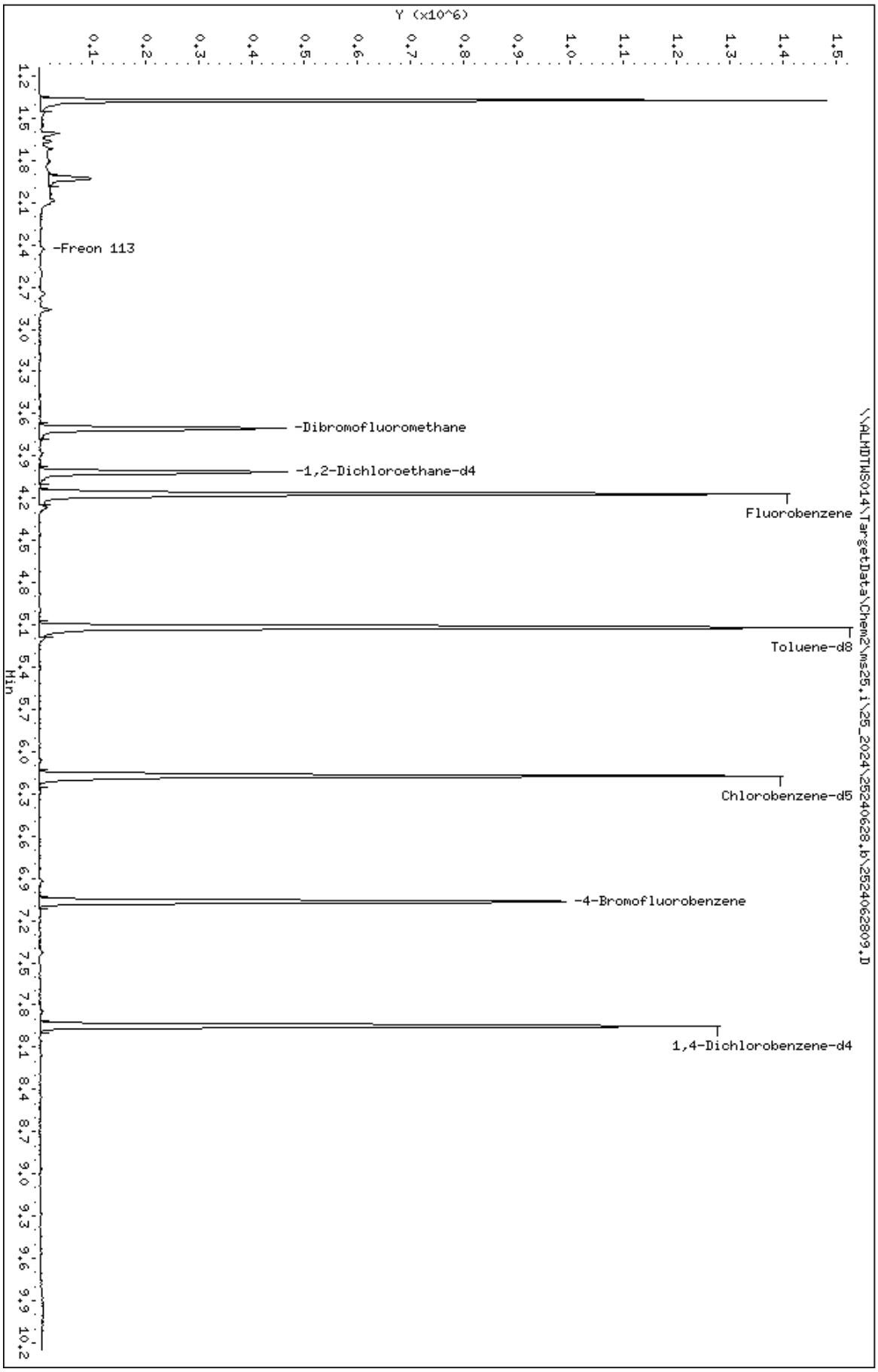
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | Compound Not Detected. | | | | | | |
| | 23 tert.- Butyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| | 24 Acetonitrile | 41 | Compound Not Detected. | | | | | | |
| | 25 Diisopropyl ether | 45 | Compound Not Detected. | | | | | | |
| | 26 Chloroprene | 53 | Compound Not Detected. | | | | | | |
| | 27 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | | |
| | 28 Acrylonitrile | 53 | Compound Not Detected. | | | | | | |
| | 30 n-Propanol | 41 | Compound Not Detected. | | | | | | |
| | 29 Ethyl tert-butyl ether | 59 | Compound Not Detected. | | | | | | |
| | 31 Vinyl acetate | 86 | Compound Not Detected. | | | | | | |
| | 32 cis-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| | 33 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | | |
| M | 100 1,2-Dichloroethene, Total | 61 | Compound Not Detected. | | | | | | |
| | 34 Bromochloromethane | 128 | Compound Not Detected. | | | | | | |
| | 35 Cyclohexane | 84 | Compound Not Detected. | | | | | | |
| | 36 Chloroform | 83 | Compound Not Detected. | | | | | | |
| | 37 Ethyl acetate | 43 | Compound Not Detected. | | | | | | |
| | 38 Methyl acrylate | 55 | Compound Not Detected. | | | | | | |
| | 39 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | | |
| | 40 Tetrahydrofuran | 42 | Compound Not Detected. | | | | | | |
| $ | 41 Dibromofluoromethane | 113 | 3.707 | 3.707 | (0.889) | 219560 | 27.3453 | 27.3453 | |
| | 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | | |
| | 43 2-Butanone | 72 | Compound Not Detected. | | | | | | |
| | 44 1,1-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 45 1-Chlorobutane | 41 | Compound Not Detected. | | | | | | |
| | 46 Heptane | 71 | Compound Not Detected. | | | | | | |
| | 48 Propionitrile | 54 | Compound Not Detected. | | | | | | |
| | 47 Benzene | 78 | Compound Not Detected. | | | | | | |
| | 49 Methacrylonitrile | 67 | Compound Not Detected. | | | | | | |
| | 50 tert-amyl methyl Ether | 73 | Compound Not Detected. | | | | | | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.012 | 4.012 | (0.962) | 251994 | 29.7725 | 29.7725 | |
| | 54 Isobutyl alcohol | 42 | Compound Not Detected. | | | | | | |
| | 52 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | | |
| | 53 tert-Amyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| * | 55 Fluorobenzene | 96 | 4.170 | 4.171 | (1.000) | 1017598 | 30.0000 | | |
| | 56 Diisobutylene | 57 | Compound Not Detected. | | | | | | |
| | 57 Trichloroethene | 95 | Compound Not Detected. | | | | | | |
| | 58 Methyl cyclohexane | 83 | Compound Not Detected. | | | | | | |
| | 59 tert-Amyl Ethylether | 59 | Compound Not Detected. | | | | | | |
| | 60 Dibromomethane | 93 | Compound Not Detected. | | | | | | |
| | 61 1,2-Dichloropropane | 63 | Compound Not Detected. | | | | | | |
| | 62 Bromodichloromethane | 83 | Compound Not Detected. | | | | | | |
| | 63 Methyl methacrylate | 41 | Compound Not Detected. | | | | | | |
| | 65 2-Chloroethylvinyl ether | 63 | Compound Not Detected. | | | | | | |
| | 66 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 67 Octane | 85 | Compound Not Detected. | | | | | | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 874168 | 30.0328 | 30.0328 | |
| | 69 Toluene | 92 | Compound Not Detected. | | | | | | |
| | 70 Chloroacetonitrile | 75 | Compound Not Detected. | | | | | | |
| | 71 2-Nitropropane | 41 | Compound Not Detected. | | | | | | |
| | 72 1,1-Dichloro-2-propanone | 63 | Compound Not Detected. | | | | | | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | Compound Not Detected. | | | | | | |
| | 75 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 74 Tetrachloroethene | 164 | Compound Not Detected. | | | | | | |

Data File: 2524062809.D Page 3
Report Date: 30-Jun-2024 15:05

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 76 Ethyl methacrylate | 69 | Compound Not Detected. | | | | | | |
| 77 1,1,2-Trichloroethane | 83 | Compound Not Detected. | | | | | | |
| 78 Chlorodibromomethane | 129 | Compound Not Detected. | | | | | | |
| 79 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | | |
| 80 1,2-Dibromoethane | 107 | Compound Not Detected. | | | | | | |
| 81 2-Hexanone | 43 | Compound Not Detected. | | | | | | |
| 82 1-Chlorohexane | 91 | Compound Not Detected. | | | | | | |
| * 83 Chlorobenzene-d5 | 82 | 6.173 | 6.173 | (1.000) | 367641 | 30.0000 | | |
| 85 Ethylbenzene | 106 | Compound Not Detected. | | | | | | |
| 84 Chlorobenzene | 112 | Compound Not Detected. | | | | | | |
| 86 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | | |
| 87 mp-Xylene | 106 | Compound Not Detected. | | | | | | |
| M 120 1,3-Dichloropropene, Total | 75 | Compound Not Detected. | | | | | | |
| 88 o-Xylene | 106 | Compound Not Detected. | | | | | | |
| 89 Styrene | 104 | Compound Not Detected. | | | | | | |
| 90 Bromoform | 173 | Compound Not Detected. | | | | | | |
| 91 Isopropylbenzene | 105 | Compound Not Detected. | | | | | | |
| $ 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 256319 | 29.8747 | 29.8747 | |
| M 121 TOTAL XYLENES | 106 | Compound Not Detected. | | | | | | |
| 94 n-Propylbenzene | 120 | Compound Not Detected. | | | | | | |
| 93 Bromobenzene | 156 | Compound Not Detected. | | | | | | |
| 95 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | | |
| 97 1,3,5-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| 96 o-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| 98 1,2,3-Trichloropropane | 110 | Compound Not Detected. | | | | | | |
| 99 trans-1,4-Dichloro-2-butene | 53 | Compound Not Detected. | | | | | | |
| 101 p-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| 102 tert-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| 103 Pentachloroethane | 117 | Compound Not Detected. | | | | | | |
| 104 1,2,4-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| 105 sec-Butylbenzene | 105 | Compound Not Detected. | | | | | | |
| 106 p-Isopropyltoluene | 134 | Compound Not Detected. | | | | | | |
| 107 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| * 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 310134 | 30.0000 | | |
| 109 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| 111 n-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| 110 Benzyl Chloride | 126 | Compound Not Detected. | | | | | | |
| 112 Hexachloroethane | 117 | Compound Not Detected. | | | | | | |
| 113 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| 114 1,2-Dibromo-3-chloropropane | 75 | Compound Not Detected. | | | | | | |
| 115 Nitrobenzene | 77 | Compound Not Detected. | | | | | | |
| 116 Hexachlorobutadiene | 225 | Compound Not Detected. | | | | | | |
| 117 1,2,4-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |
| 118 Naphthalene | 128 | Compound Not Detected. | | | | | | |
| 119 1,2,3-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).




Data File: \\ALMDTWS014\TargetData\Chem2\ms25,i\25_2024\25240628,b\2524062809,D
Date : 28-JUN-2024 13:06
Client ID: HS24061196-02
Sample Info: 33660270021;1;;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25,i
Operator: THP
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062809.D Page 2

Date : 28-JUN-2024 13:06

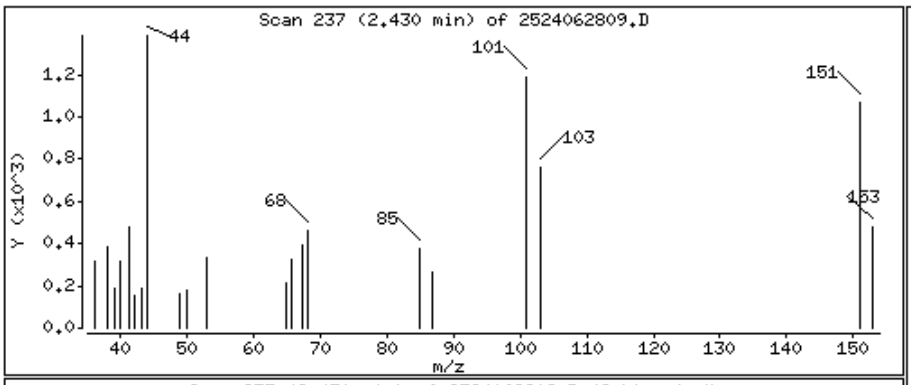
Client ID: HS24061196-02 Instrument: ms25.i

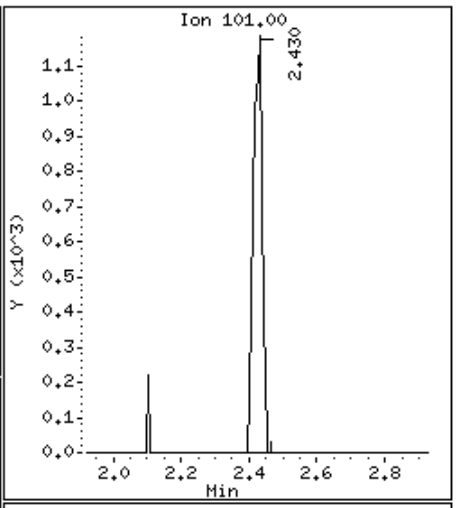
Sample Info: 3366027002;;1;;;;;

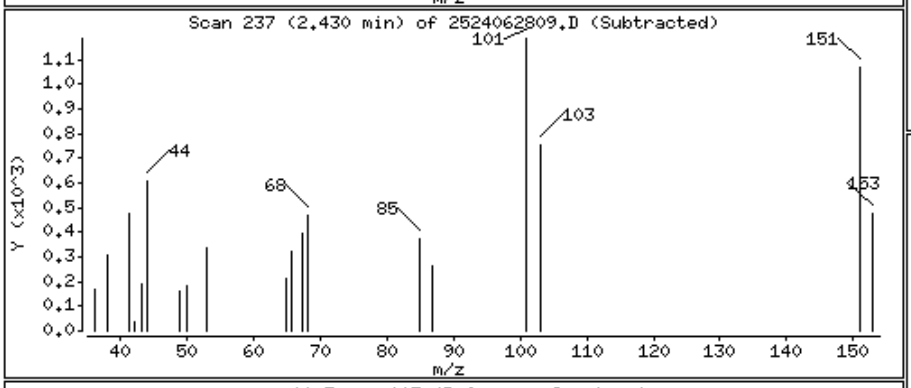
Purge Volume: 5.0 Operator: TMP

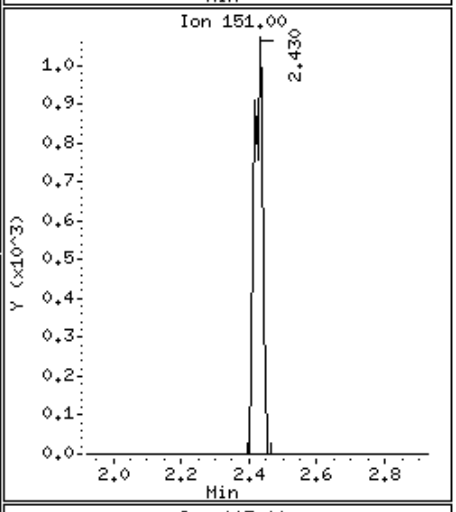
Column phase: DB-VRX Column diameter: 0.25

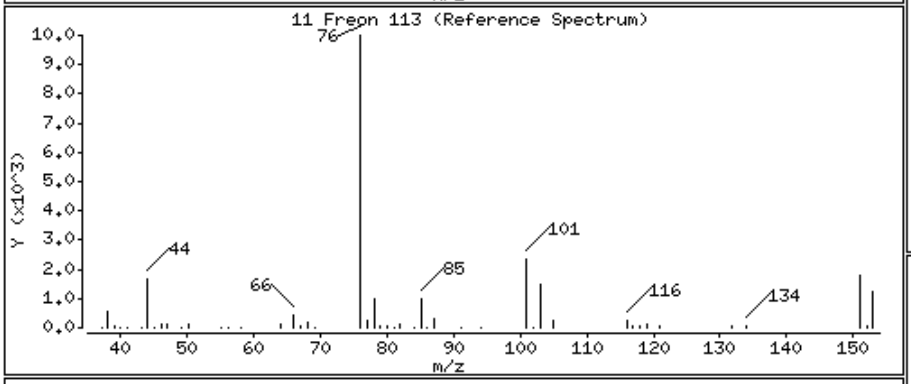
11 Freon 113 Concentration: 0.278851 ug/L

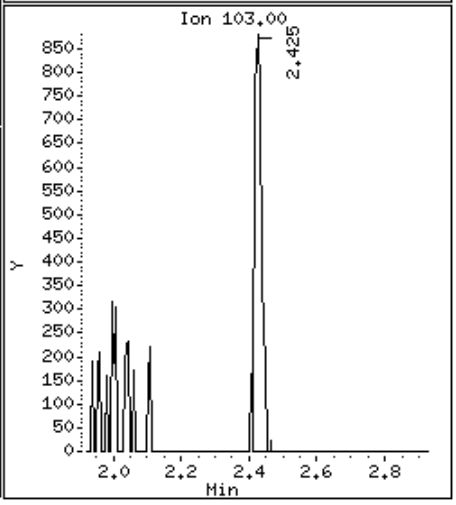


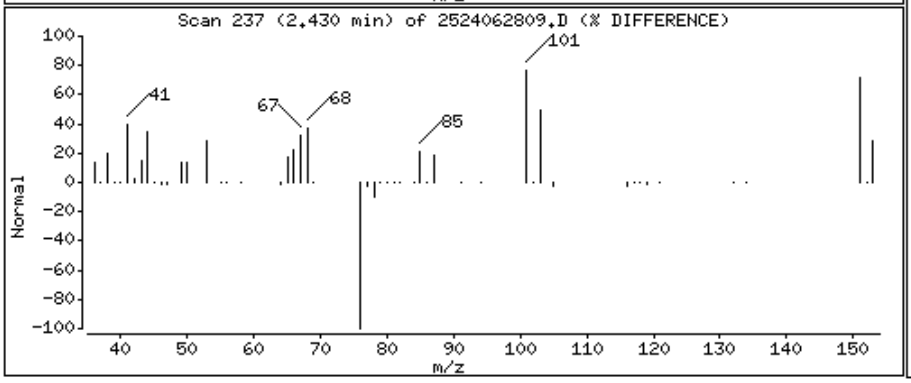



Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062809.D
Inj Date  : 28-JUN-2024 13:06
InstruID  : ms25.i
LabSampID : 3366027002

NO MANUAL INTEGRATIONS

# UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:05
Client ID: HS24061196-02
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406280
Inj Date: 28-JUN-2024 13:06
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1,2-Dichloroethane
Heptane
Trichloroethene
Chloroethane
Ethyl methacrylate
2-Nitropropane

Data File: 2524062825.D Page 1
Report Date: 30-Jun-2024 15:16

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062825.D
Lab Smp Id: 3366027001 Client Smp ID: HS24061196-01
Inj Date : 28-JUN-2024 18:12
Operator : TMP Inst ID: ms25.i
Smp Info : 3366027001;;1;;;;;50
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 25
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 50.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | | |
| 2 Chloromethane | 50 | Compound Not Detected. | | | | | | |
| 3 Vinyl Chloride | 62 | Compound Not Detected. | | | | | | |
| 4 Bromomethane | 94 | Compound Not Detected. | | | | | | |
| 5 Chloroethane | 64 | Compound Not Detected. | | | | | | |
| 6 Pentane | 41 | Compound Not Detected. | | | | | | |
| 7 Trichlorofluoromethane | 101 | Compound Not Detected. | | | | | | |
| 8 Dichlorofluoromethane | 67 | Compound Not Detected. | | | | | | |
| 9 Ethyl Ether | 74 | Compound Not Detected. | | | | | | |
| 10 1,1-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 12 Carbon Disulfide | 76 | Compound Not Detected. | | | | | | |
| 11 Freon 113 | 101 | 2.424 | 2.424 | (0.581) | 111101 | 18.7786 | 938.932 | |
| 13 Iodomethane | 127 | Compound Not Detected. | | | | | | |
| 14 Acrolein | 56 | Compound Not Detected. | | | | | | |
| 16 3-Chloro-1-propene | 41 | Compound Not Detected. | | | | | | |
| 15 Isopropyl Alcohol | 45 | Compound Not Detected. | | | | | | |
| 17 Methylene Chloride | 84 | Compound Not Detected. | | | | | | |
| 18 Acetone | 58 | Compound Not Detected. | | | | | | |
| 19 Methyl acetate | 74 | Compound Not Detected. | | | | | | |
| 20 trans-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| 21 Hexane | 57 | Compound Not Detected. | | | | | | |

Data File: 2524062825.D
Report Date: 30-Jun-2024 15:16



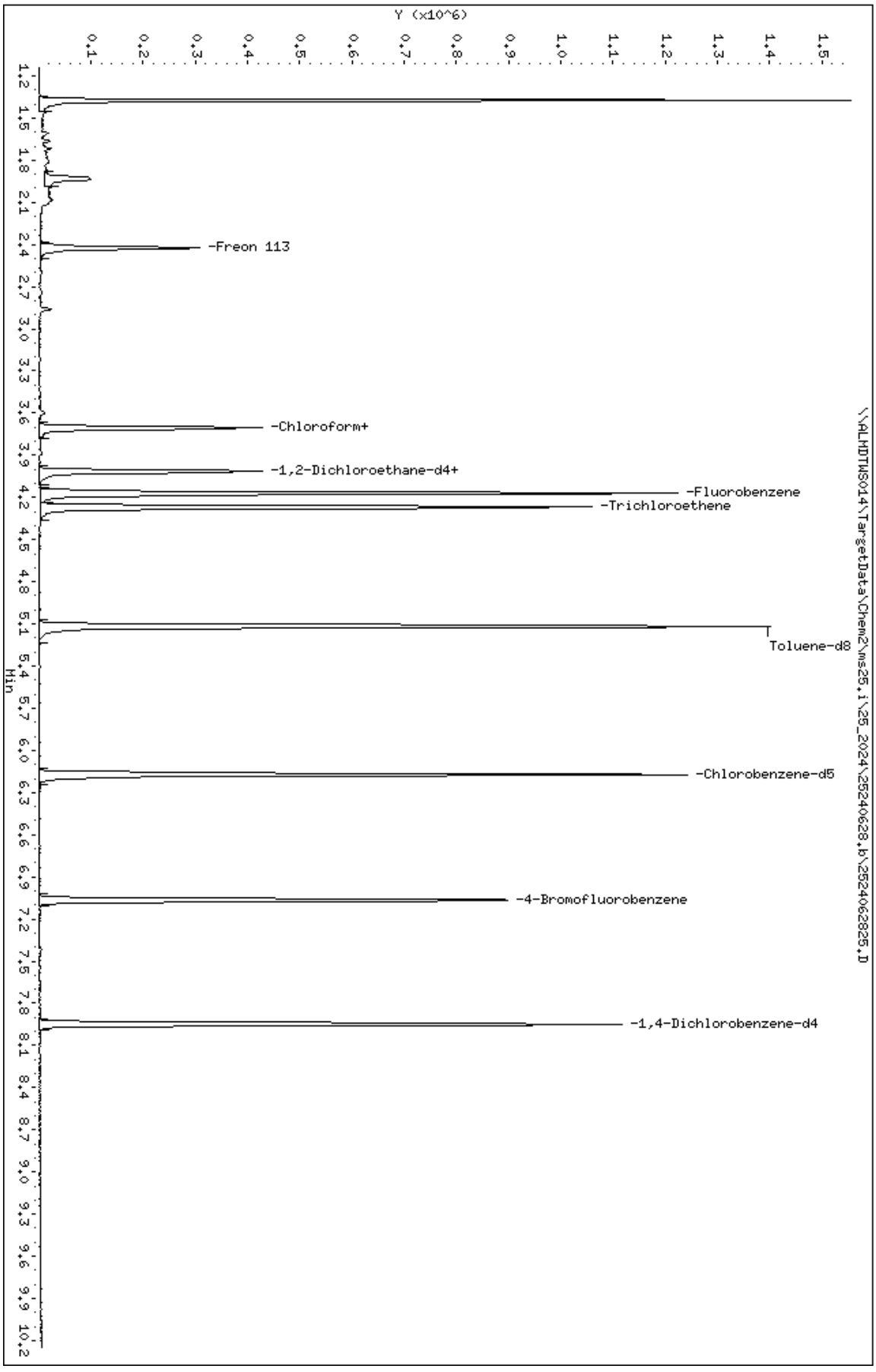
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 22 Methyl t-Butyl Ether | 73 | Compound Not Detected. | | | | | | |
| | 23 tert.- Butyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| | 24 Acetonitrile | 41 | Compound Not Detected. | | | | | | |
| | 25 Diisopropyl ether | 45 | Compound Not Detected. | | | | | | |
| | 26 Chloroprene | 53 | Compound Not Detected. | | | | | | |
| | 27 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | | |
| | 28 Acrylonitrile | 53 | Compound Not Detected. | | | | | | |
| | 30 n-Propanol | 41 | Compound Not Detected. | | | | | | |
| | 29 Ethyl tert-butyl ether | 59 | Compound Not Detected. | | | | | | |
| | 31 Vinyl acetate | 86 | Compound Not Detected. | | | | | | |
| | 32 cis-1,2-Dichloroethene | 61 | Compound Not Detected. | | | | | | |
| | 33 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | | |
| M | 100 1,2-Dichloroethene, Total | 61 | Compound Not Detected. | | | | | | |
| | 34 Bromochloromethane | 128 | Compound Not Detected. | | | | | | |
| | 35 Cyclohexane | 84 | Compound Not Detected. | | | | | | |
| | 36 Chloroform | 83 | 3.603 | 3.598 | (0.864) | 6395 | 0.52778 | 26.3889(a) | |
| | 37 Ethyl acetate | 43 | Compound Not Detected. | | | | | | |
| | 38 Methyl acrylate | 55 | Compound Not Detected. | | | | | | |
| | 39 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | | |
| | 40 Tetrahydrofuran | 42 | Compound Not Detected. | | | | | | |
| $ | 41 Dibromofluoromethane | 113 | 3.706 | 3.707 | (0.889) | 201252 | 29.1706 | 1458.53 | |
| | 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | | |
| | 43 2-Butanone | 72 | Compound Not Detected. | | | | | | |
| | 44 1,1-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 45 1-Chlorobutane | 41 | Compound Not Detected. | | | | | | |
| | 46 Heptane | 71 | Compound Not Detected. | | | | | | |
| | 48 Propionitrile | 54 | Compound Not Detected. | | | | | | |
| | 47 Benzene | 78 | Compound Not Detected. | | | | | | |
| | 49 Methacrylonitrile | 67 | Compound Not Detected. | | | | | | |
| | 50 tert-amyl methyl Ether | 73 | Compound Not Detected. | | | | | | |
| $ | 51 1,2-Dichloroethane-d4 | 65 | 4.017 | 4.012 | (0.963) | 235409 | 32.3687 | 1618.43 | |
| | 54 Isobutyl alcohol | 42 | Compound Not Detected. | | | | | | |
| | 52 1,2-Dichloroethane | 62 | 4.050 | 4.056 | (0.971) | 4198 | 0.48702 | 24.3510(aQ) | |
| | 53 tert-Amyl Alcohol | 59 | Compound Not Detected. | | | | | | |
| * | 55 Fluorobenzene | 96 | 4.170 | 4.171 | (1.000) | 874380 | 30.0000 | | |
| | 56 Diisobutylene | 57 | Compound Not Detected. | | | | | | |
| | 57 Trichloroethene | 95 | 4.268 | 4.269 | (1.024) | 285713 | 41.1708 | 2058.54 | |
| | 58 Methyl cyclohexane | 83 | Compound Not Detected. | | | | | | |
| | 59 tert-Amyl Ethylether | 59 | Compound Not Detected. | | | | | | |
| | 60 Dibromomethane | 93 | Compound Not Detected. | | | | | | |
| | 61 1,2-Dichloropropane | 63 | Compound Not Detected. | | | | | | |
| | 62 Bromodichloromethane | 83 | Compound Not Detected. | | | | | | |
| | 63 Methyl methacrylate | 41 | Compound Not Detected. | | | | | | |
| | 65 2-Chloroethylvinyl ether | 63 | Compound Not Detected. | | | | | | |
| | 66 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 67 Octane | 85 | Compound Not Detected. | | | | | | |
| $ | 68 Toluene-d8 | 98 | 5.120 | 5.120 | (0.829) | 806687 | 31.1773 | 1558.86 | |
| | 69 Toluene | 92 | Compound Not Detected. | | | | | | |
| | 70 Chloroacetonitrile | 75 | Compound Not Detected. | | | | | | |
| | 71 2-Nitropropane | 41 | Compound Not Detected. | | | | | | |
| | 72 1,1-Dichloro-2-propanone | 63 | Compound Not Detected. | | | | | | |
| | 73 4-Methyl-2-Pentanone(MIBK) | 43 | Compound Not Detected. | | | | | | |
| | 75 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| | 74 Tetrachloroethene | 164 | Compound Not Detected. | | | | | | |

Data File: 2524062825.D Page 3
Report Date: 30-Jun-2024 15:16

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl methacrylate | 69 | Compound Not Detected. | | | | | | |
| | 77 1,1,2-Trichloroethane | 83 | Compound Not Detected. | | | | | | |
| | 78 Chlorodibromomethane | 129 | Compound Not Detected. | | | | | | |
| | 79 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | | |
| | 80 1,2-Dibromoethane | 107 | Compound Not Detected. | | | | | | |
| | 81 2-Hexanone | 43 | Compound Not Detected. | | | | | | |
| | 82 1-Chlorohexane | 91 | Compound Not Detected. | | | | | | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.173 | (1.000) | 326807 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | Compound Not Detected. | | | | | | |
| | 84 Chlorobenzene | 112 | Compound Not Detected. | | | | | | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | | |
| | 87 mp-Xylene | 106 | Compound Not Detected. | | | | | | |
| M | 120 1,3-Dichloropropene, Total | 75 | Compound Not Detected. | | | | | | |
| | 88 o-Xylene | 106 | Compound Not Detected. | | | | | | |
| | 89 Styrene | 104 | Compound Not Detected. | | | | | | |
| | 90 Bromoform | 173 | Compound Not Detected. | | | | | | |
| | 91 Isopropylbenzene | 105 | Compound Not Detected. | | | | | | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.067 | 7.068 | (0.889) | 229328 | 30.7008 | 1535.04 | |
| M | 121 TOTAL XYLENES | 106 | Compound Not Detected. | | | | | | |
| | 94 n-Propylbenzene | 120 | Compound Not Detected. | | | | | | |
| | 93 Bromobenzene | 156 | Compound Not Detected. | | | | | | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | | |
| | 97 1,3,5-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 96 o-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 98 1,2,3-Trichloropropane | 110 | Compound Not Detected. | | | | | | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | Compound Not Detected. | | | | | | |
| | 101 p-Chlorotoluene | 91 | Compound Not Detected. | | | | | | |
| | 102 tert-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 103 Pentachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 104 1,2,4-Trimethylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 105 sec-Butylbenzene | 105 | Compound Not Detected. | | | | | | |
| | 106 p-Isopropyltoluene | 134 | Compound Not Detected. | | | | | | |
| | 107 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.951 | 7.952 | (1.000) | 270010 | 30.0000 | | (Q) |
| | 109 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 111 n-Butylbenzene | 134 | Compound Not Detected. | | | | | | |
| | 110 Benzyl Chloride | 126 | Compound Not Detected. | | | | | | |
| | 112 Hexachloroethane | 117 | Compound Not Detected. | | | | | | |
| | 113 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | Compound Not Detected. | | | | | | |
| | 115 Nitrobenzene | 77 | Compound Not Detected. | | | | | | |
| | 116 Hexachlorobutadiene | 225 | Compound Not Detected. | | | | | | |
| | 117 1,2,4-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |
| | 118 Naphthalene | 128 | Compound Not Detected. | | | | | | |
| | 119 1,2,3-Trichlorobenzene | 180 | Compound Not Detected. | | | | | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.


Data File: \\ALMDTMS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062825.D
Date : 28-JUN-2024 18:12
Client ID: HS24061196-01
Sample Info: 33660270001;1;;;;;50
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25.i
Operator: THP
Column diameter: 0.25
Page 1
Y (x10^6)
Min
-Freon 113
-Chloroform+
-1,2-Dichloroethane-d4+
-Fluorobenzene
-Trichloroethene
Toluene-d8
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4-Dichlorobenzene-d4
\\ALMDTMS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062825.D

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062825.D Page 2

Date : 28-JUN-2024 18:12

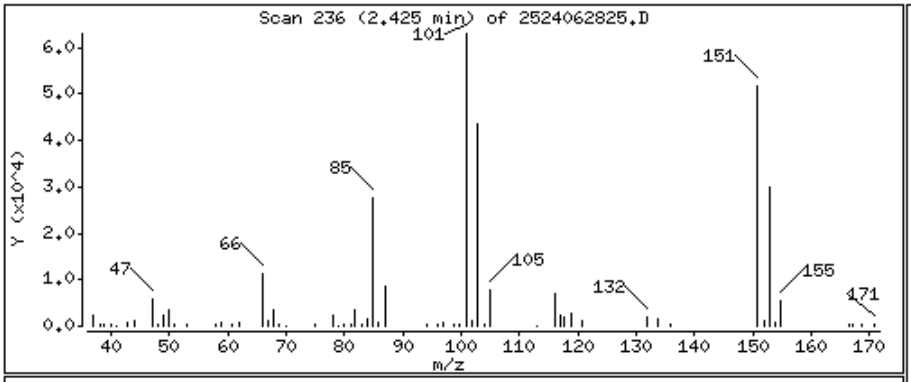
Client ID: HS24061196-01 Instrument: ms25.i

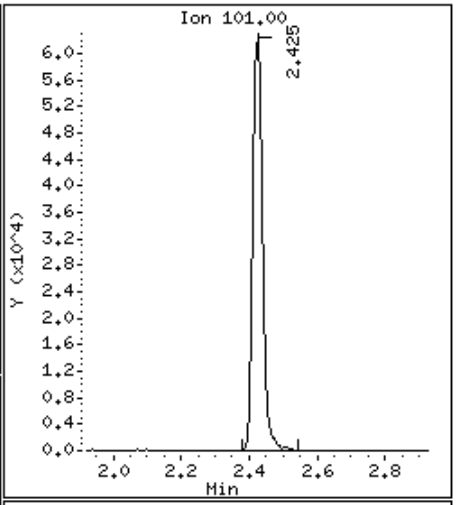
Sample Info: 3366027001;;1;;;;;50

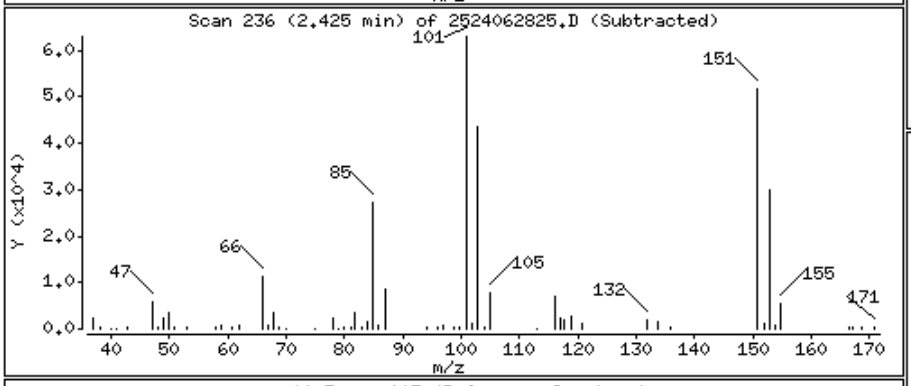
Purge Volume: 5.0 Operator: TMP

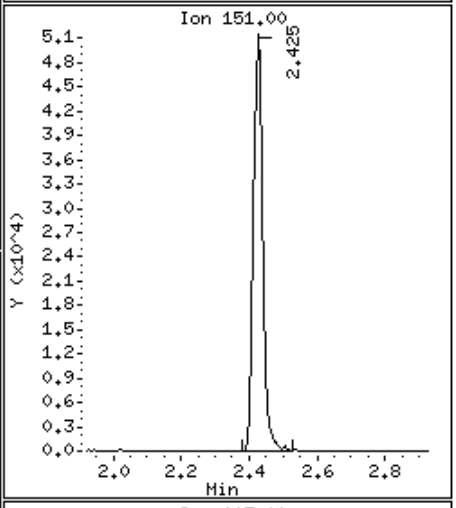
Column phase: DB-VRX Column diameter: 0.25

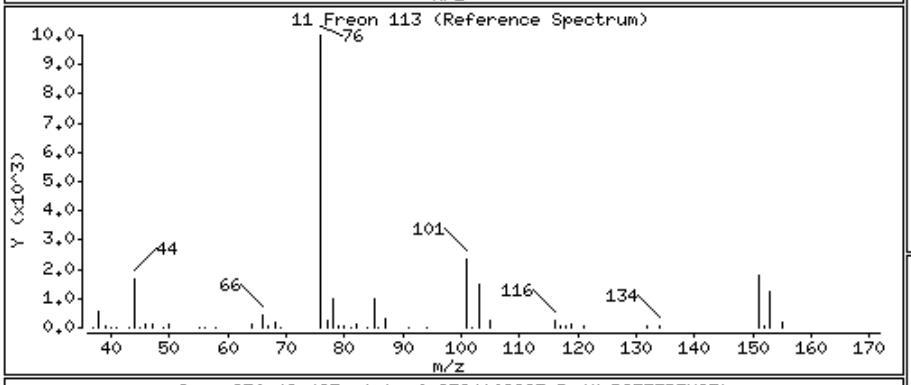
11 Freon 113 Concentration: 938.932 ug/L

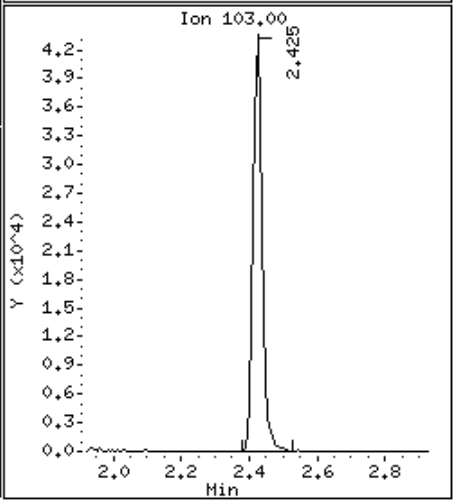


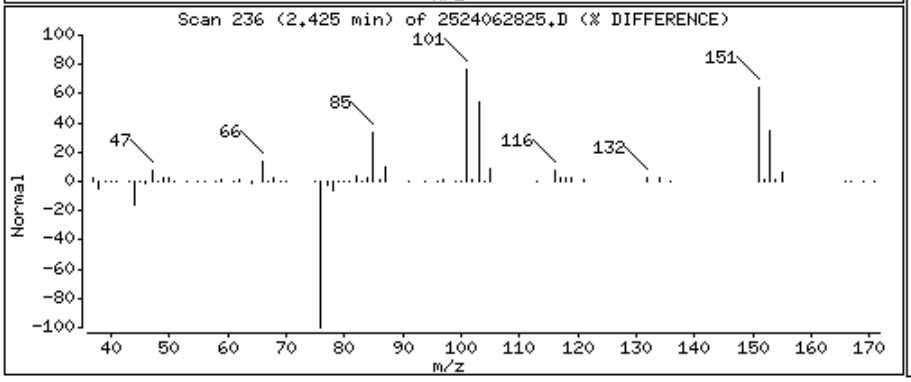



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062825.D Page 3

Date : 28-JUN-2024 18:12

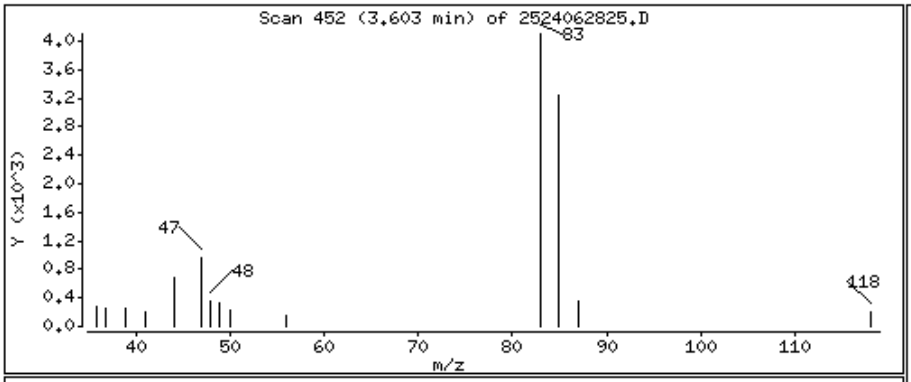
Client ID: HS24061196-01 Instrument: ms25.i

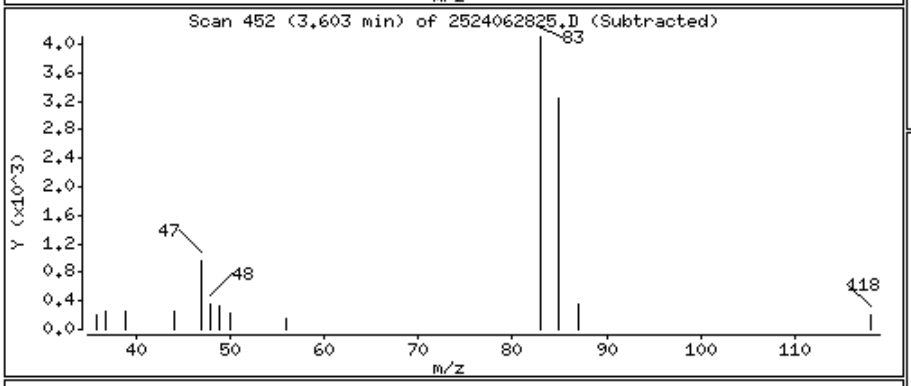
Sample Info: 3366027001;;1;;;;;50

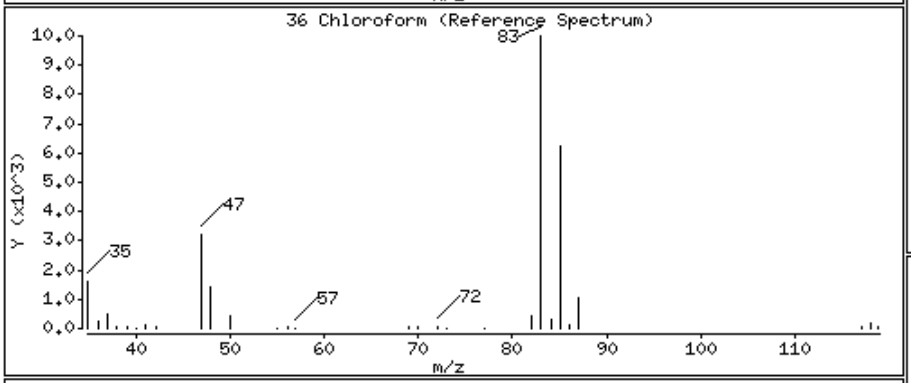
Purge Volume: 5.0 Operator: TMP

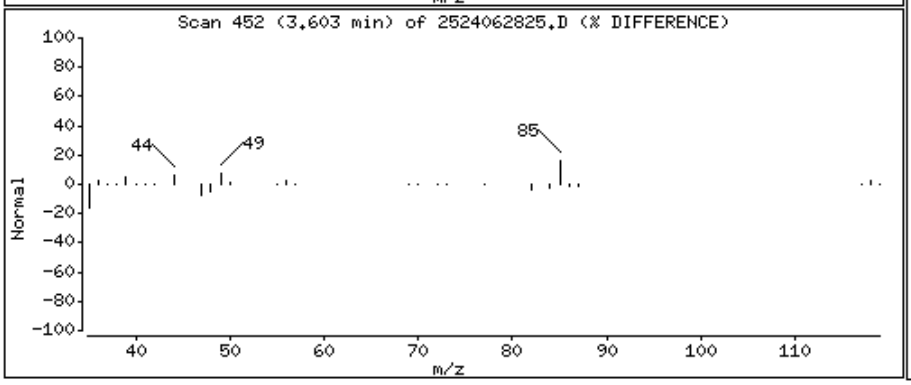
Column phase: DB-VRX Column diameter: 0.25

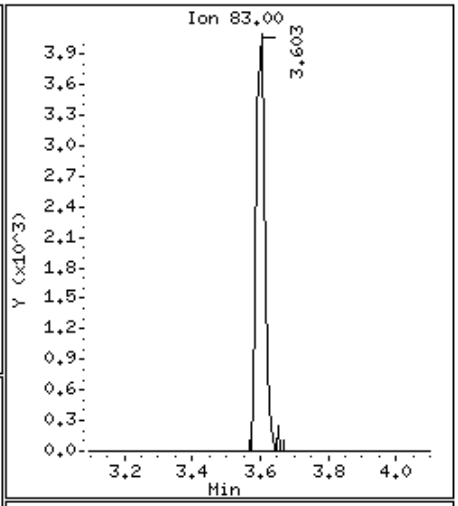
36 Chloroform Concentration: 26.3889 ug/L

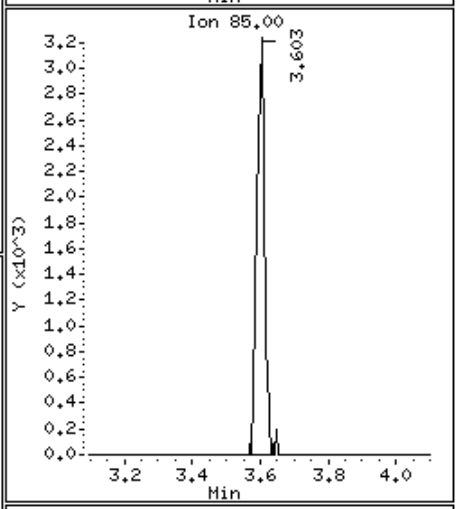


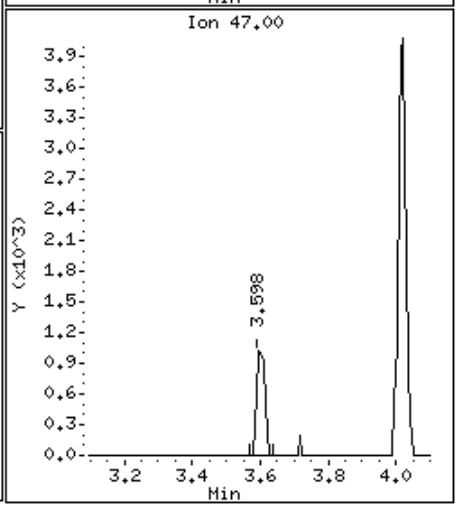



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062825.D Page 4

Date : 28-JUN-2024 18:12

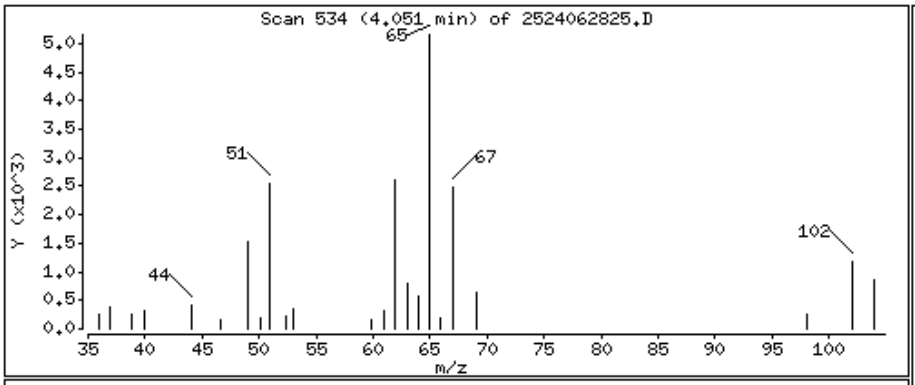
Client ID: HS24061196-01 Instrument: ms25.i

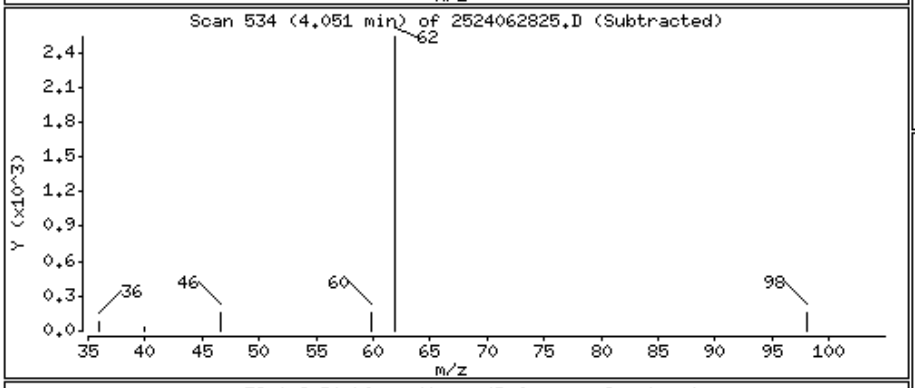
Sample Info: 3366027001;;1;;;;;50

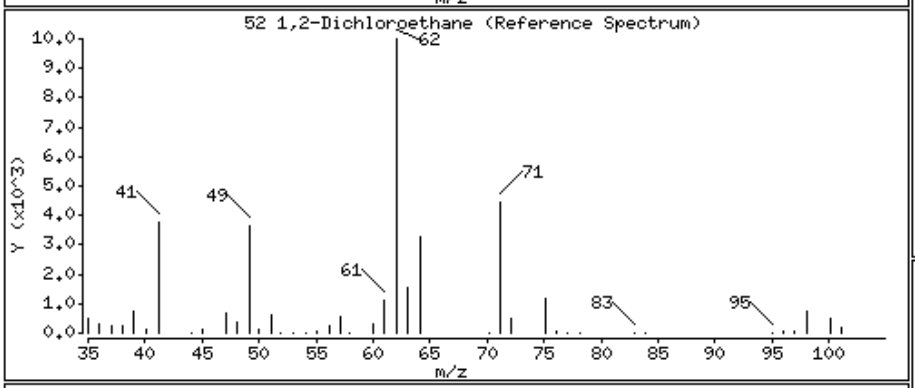
Purge Volume: 5.0 Operator: TMP

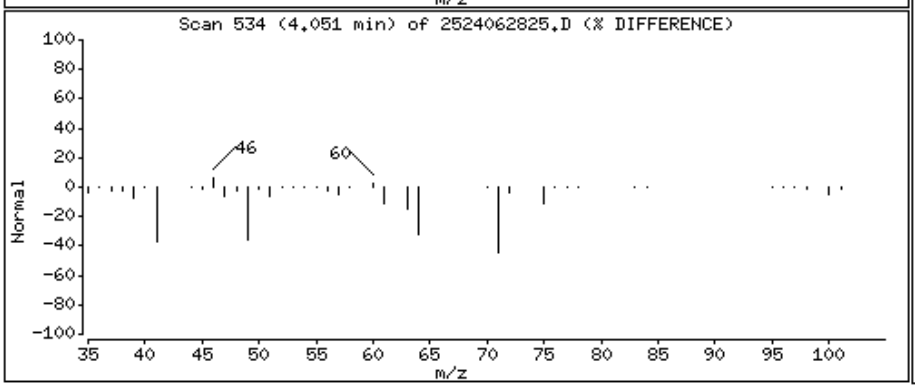
Column phase: DB-VRX Column diameter: 0.25

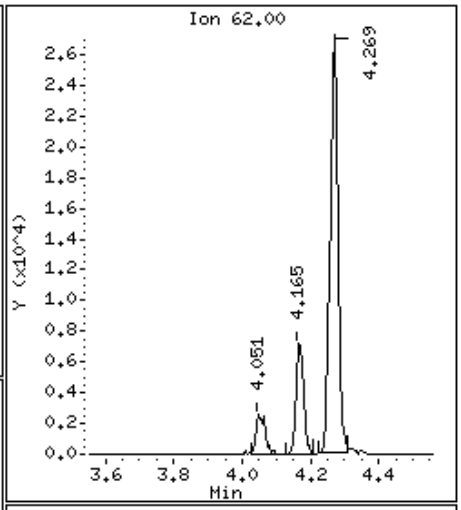
52 1,2-Dichloroethane Concentration: 24.3510 ug/L

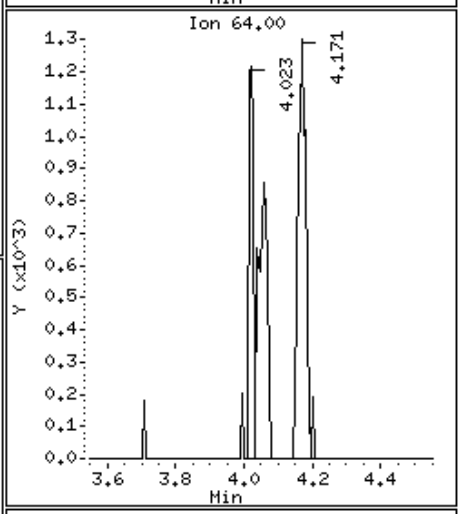


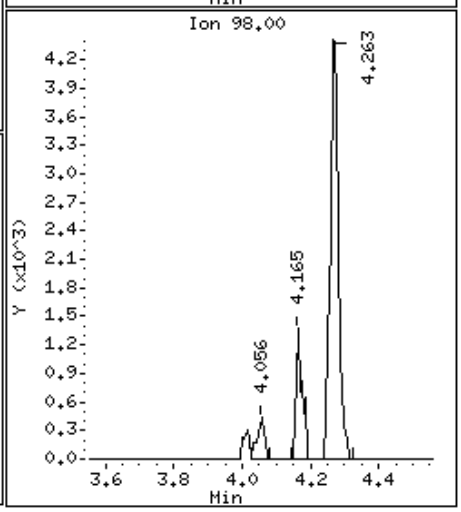



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062825.D Page 5

Date : 28-JUN-2024 18:12

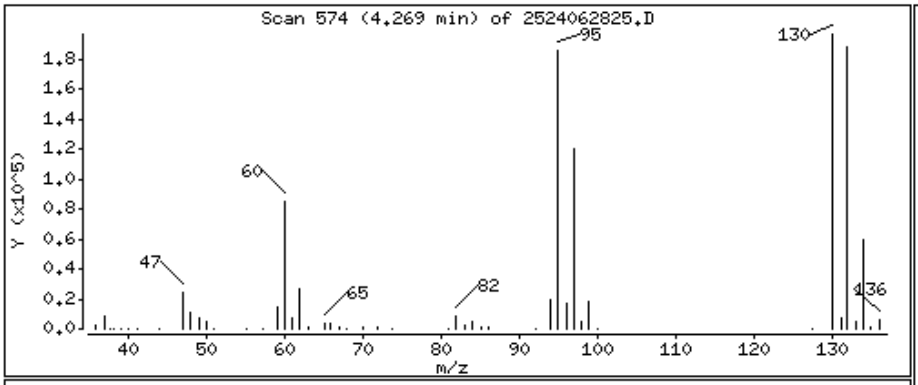
Client ID: HS24061196-01 Instrument: ms25.i

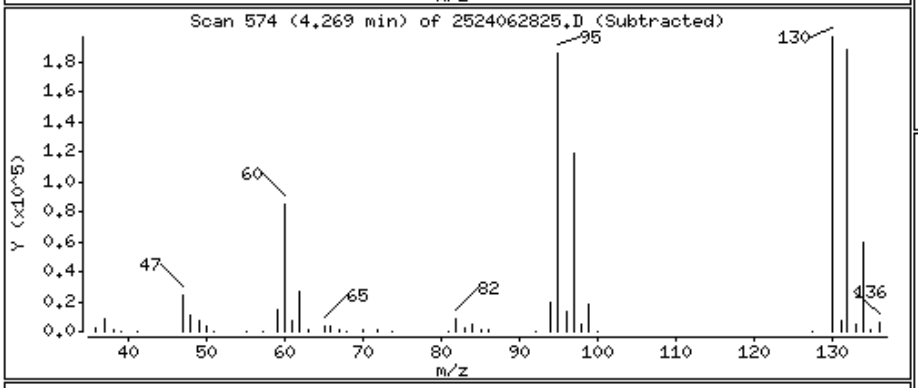
Sample Info: 3366027001;;1;;;;;50

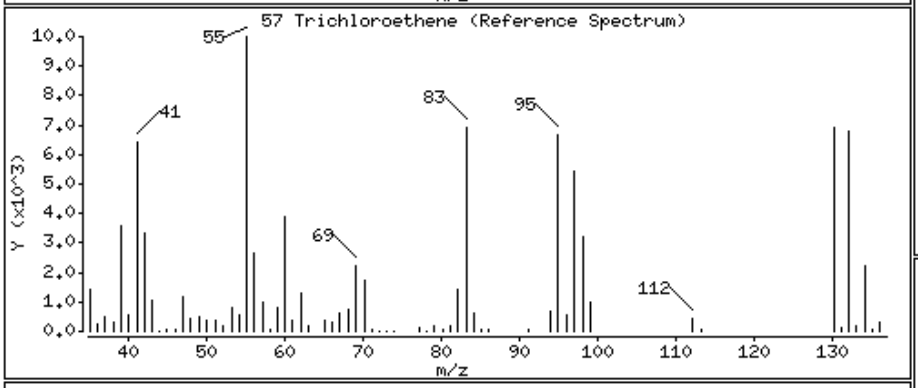
Purge Volume: 5.0 Operator: TMP

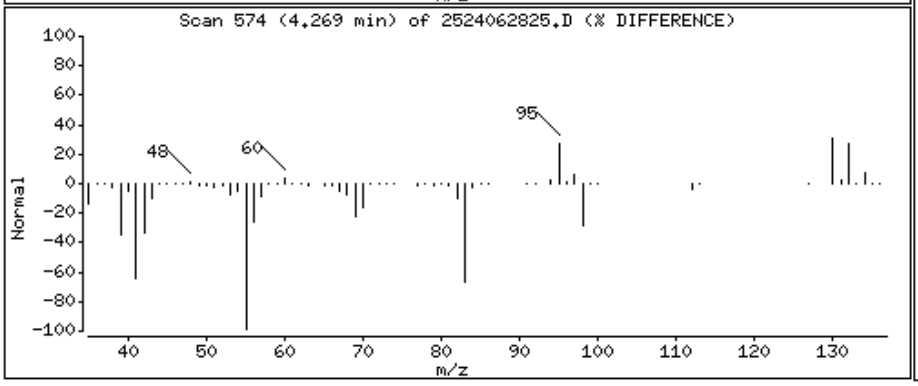
Column phase: DB-VRX Column diameter: 0.25

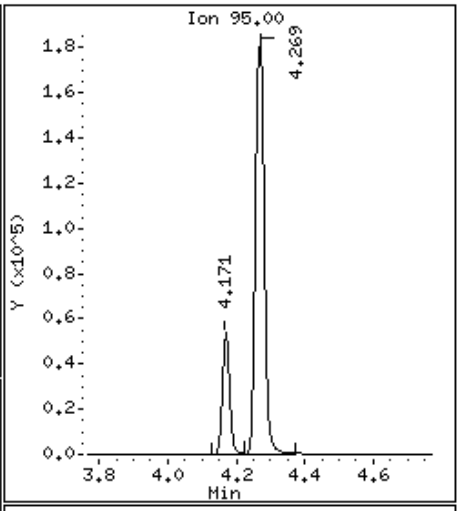
57 Trichloroethene Concentration: 2058.54 ug/L

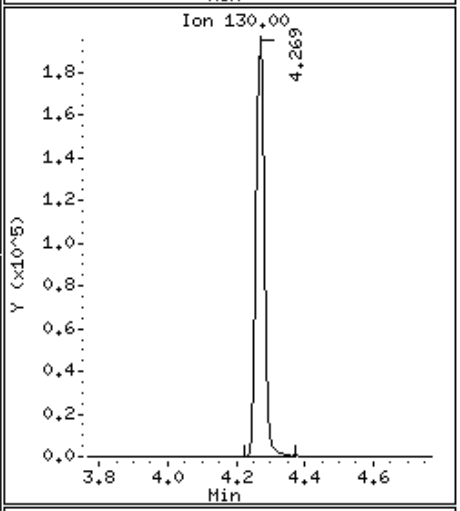


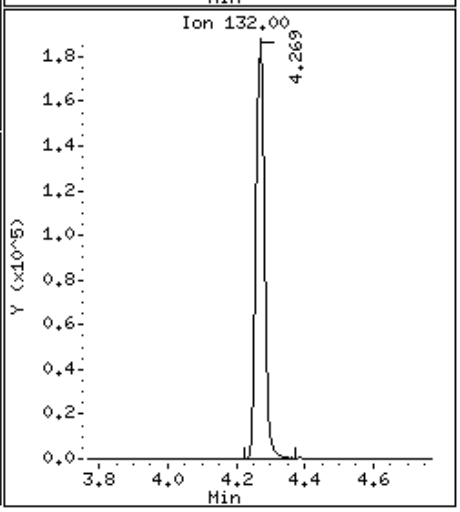



Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062825.D
Inj Date  : 28-JUN-2024 18:12
InstruID  : ms25.i
LabSampID : 3366027001

NO MANUAL INTEGRATIONS

# UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:16
Client ID: HS24061196-01
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406282
Inj Date: 28-JUN-2024 18:12
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
Acrolein
Bromodichloromethane
Ethyl methacrylate
Heptane
Methacrylonitrile
Methyl cyclohexane
Methylene Chloride
2-Nitropropane
Trichlorofluoromethane

Data File: 2524062829.D Page 1
Report Date: 30-Jun-2024 15:02

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062829.D
Lab Smp Id: 1801
Inj Date : 28-JUN-2024 19:34
Operator : TMP Inst ID: ms25.i
Smp Info : 1801;;1;;;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 28 QC Sample: ENDCCV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vo | 5.000 | Sample Volume purged |
| DF | 1.000 | sample dilution factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 1 Dichlorodifluoromethane | 85 | 1.497 | 1.497 | (0.359) | 476524 | 45.7071 | 45.7071 | |
| 2 Chloromethane | 50 | 1.644 | 1.644 | (0.394) | 456530 | 50.1424 | 50.1424 | |
| 3 Vinyl Chloride | 62 | 1.704 | 1.704 | (0.409) | 557838 | 47.3313 | 47.3313 | |
| 4 Bromomethane | 94 | 1.922 | 1.922 | (0.461) | 324391 | 57.5689 | 57.5689 | |
| 5 Chloroethane | 64 | 2.004 | 2.004 | (0.481) | 378630 | 47.5455 | 47.5455 | |
| 6 Pentane | 41 | 2.092 | 2.092 | (0.502) | 284874 | 38.5449 | 38.5449 | |
| 7 Trichlorofluoromethane | 101 | 2.097 | 2.097 | (0.503) | 739868 | 45.8306 | 45.8306 | |
| 8 Dichlorofluoromethane | 67 | 2.124 | 2.124 | (0.509) | 740524 | 49.5748 | 49.5748 | |
| 9 Ethyl Ether | 74 | 2.277 | 2.277 | (0.546) | 227654 | 50.1174 | 50.1174 | |
| 10 1,1-Dichloroethene | 61 | 2.414 | 2.414 | (0.579) | 433428 | 47.8173 | 47.8173 | |
| 12 Carbon Disulfide | 76 | 2.446 | 2.446 | (0.587) | 921041 | 47.1041 | 47.1041 | |
| 11 Freon 113 | 101 | 2.424 | 2.424 | (0.581) | 289522 | 45.4123 | 45.4123 | |
| 13 Iodomethane | 127 | 2.512 | 2.506 | (0.602) | 159468 | 45.4279 | 45.4279 | |
| 14 Acrolein | 56 | 2.599 | 2.599 | (0.623) | 336100 | 229.881 | 229.881 | |
| 16 3-Chloro-1-propene | 41 | 2.681 | 2.681 | (0.643) | 369383 | 46.7782 | 46.7782 | |
| 15 Isopropyl Alcohol | 45 | 2.654 | 2.654 | (0.636) | 118651 | 248.249 | 248.249 | |
| 17 Methylene Chloride | 84 | 2.741 | 2.741 | (0.657) | 362333 | 48.9370 | 48.9370 | |
| 18 Acetone | 58 | 2.752 | 2.752 | (0.660) | 193216 | 235.539 | 235.539 | |
| 19 Methyl acetate | 74 | 2.812 | 2.817 | (0.674) | 78558 | 46.5922 | 46.5922 | |
| 20 trans-1,2-Dichloroethene | 61 | 2.828 | 2.828 | (0.678) | 438926 | 49.4406 | 49.4406 | |
| 21 Hexane | 57 | 2.866 | 2.866 | (0.687) | 628444 | 42.5120 | 42.5120 | |

Data File: 2524062829.D Page 2
Report Date: 30-Jun-2024 15:02

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|
| 22 Methyl t-Butyl Ether | 73 | 2.872 | 2.872 | (0.689) | 1071642 | 47.0650 | 47.0650 | |
| 23 tert.- Butyl Alcohol | 59 | 2.894 | 2.894 | (0.694) | 206316 | 251.940 | 251.940 | |
| 24 Acetonitrile | 41 | 3.019 | 3.019 | (0.724) | 249065 | 271.520 | 271.520 | |
| 25 Diisopropyl ether | 45 | 3.063 | 3.063 | (0.734) | 1049010 | 53.2408 | 53.2408 | |
| 26 Chloroprene | 53 | 3.156 | 3.156 | (0.757) | 526396 | 52.6964 | 52.6964 | |
| 27 1,1-Dichloroethane | 63 | 3.167 | 3.167 | (0.759) | 629854 | 52.0754 | 52.0754 | |
| 28 Acrylonitrile | 53 | 3.188 | 3.188 | (0.765) | 839842 | 266.618 | 266.618 | |
| 30 n-Propanol | 41 | 3.265 | 3.265 | (0.783) | 196020 | 504.987 | 504.987 | |
| 29 Ethyl tert-butyl ether | 59 | 3.265 | 3.265 | (0.783) | 1118143 | 53.4320 | 53.4320 | |
| 31 Vinyl acetate | 86 | 3.276 | 3.276 | (0.785) | 89926 | 43.6073 | 43.6073(Q) | |
| 32 cis-1,2-Dichloroethene | 61 | 3.461 | 3.461 | (0.830) | 461210 | 51.2360 | 51.2360 | |
| 33 2,2-Dichloropropane | 77 | 3.527 | 3.527 | (0.846) | 381332 | 39.5579 | 39.5579 | |
| M 100 1,2-Dichloroethene, Total | 61 | | | | 900136 | 100.677 | 100.677 | |
| 34 Bromochloromethane | 128 | 3.576 | 3.576 | (0.857) | 200996 | 51.7777 | 51.7777 | |
| 35 Cyclohexane | 84 | 3.587 | 3.592 | (0.860) | 508413 | 47.0711 | 47.0711 | |
| 36 Chloroform | 83 | 3.598 | 3.598 | (0.863) | 670981 | 51.3886 | 51.3886 | |
| 37 Ethyl acetate | 43 | 3.636 | 3.636 | (0.872) | 375369 | 47.9422 | 47.9422 | |
| 38 Methyl acrylate | 55 | 3.652 | 3.652 | (0.876) | 377885 | 52.1320 | 52.1320 | |
| 39 Carbon Tetrachloride | 117 | 3.701 | 3.701 | (0.887) | 425710 | 44.3751 | 44.3751(M) | MP |
| 40 Tetrahydrofuran | 42 | 3.696 | 3.696 | (0.886) | 578215 | 260.929 | 260.929 | |
| $ 41 Dibromofluoromethane | 113 | 3.707 | 3.707 | (0.889) | 209520 | 28.1823 | 28.1823 | |
| 42 1,1,1-Trichloroethane | 97 | 3.734 | 3.734 | (0.895) | 516738 | 50.8452 | 50.8452 | |
| 43 2-Butanone | 72 | 3.761 | 3.761 | (0.902) | 265334 | 247.684 | 247.684(M) | MP |
| 44 1,1-Dichloropropene | 75 | 3.799 | 3.799 | (0.911) | 469934 | 48.8839 | 48.8839 | |
| 45 1-Chlorobutane | 41 | 3.821 | 3.821 | (0.916) | 301187 | 48.7194 | 48.7194 | |
| 46 Heptane | 71 | 3.887 | 3.887 | (0.932) | 215873 | 38.6515 | 38.6515 | |
| 48 Propionitrile | 54 | 3.941 | 3.941 | (0.945) | 329429 | 276.176 | 276.176 | |
| 47 Benzene | 78 | 3.941 | 3.941 | (0.945) | 1446292 | 48.9476 | 48.9476 | |
| 49 Methacrylonitrile | 67 | 3.952 | 3.952 | (0.948) | 188826 | 52.8076 | 52.8076 | |
| 50 tert-amyl methyl Ether | 73 | 3.974 | 3.974 | (0.953) | 1074915 | 53.2128 | 53.2128 | |
| $ 51 1,2-Dichloroethane-d4 | 65 | 4.012 | 4.012 | (0.962) | 260324 | 33.2171 | 33.2171 | |
| 54 Isobutyl alcohol | 42 | 3.990 | 3.985 | (0.957) | 121962 | 669.056 | 669.056(Q) | |
| 52 1,2-Dichloroethane | 62 | 4.050 | 4.056 | (0.971) | 463933 | 49.9465 | 49.9465 | |
| 53 tert-Amyl Alcohol | 59 | 4.056 | 4.056 | (0.973) | 153589 | 244.452 | 244.452 | |
| * 55 Fluorobenzene | 96 | 4.171 | 4.171 | (1.000) | 942225 | 30.0000 | | |
| 56 Diisobutylene | 57 | 4.176 | 4.176 | (1.001) | 821093 | 44.8583 | 44.8583 | |
| 57 Trichloroethene | 95 | 4.269 | 4.269 | (1.024) | 355017 | 47.4738 | 47.4738 | |
| 58 Methyl cyclohexane | 83 | 4.274 | 4.274 | (0.692) | 550069 | 44.3755 | 44.3755 | |
| 59 tert-Amyl Ethylether | 59 | 4.367 | 4.367 | (1.047) | 836182 | 47.5019 | 47.5019 | |
| 60 Dibromomethane | 93 | 4.525 | 4.525 | (1.085) | 244768 | 51.7755 | 51.7755 | |
| 61 1,2-Dichloropropane | 63 | 4.585 | 4.585 | (1.099) | 372299 | 52.3518 | 52.3518 | |
| 62 Bromodichloromethane | 83 | 4.607 | 4.607 | (1.105) | 450237 | 45.5497 | 45.5497 | |
| 63 Methyl methacrylate | 41 | 4.667 | 4.667 | (1.119) | 302498 | 53.7466 | 53.7466 | |
| 65 2-Chloroethylvinyl ether | 63 | 4.934 | 4.934 | (1.183) | 238328 | 45.8236 | 45.8236 | |
| 66 cis-1,3-Dichloropropene | 75 | 4.994 | 4.994 | (0.809) | 567120 | 43.9005 | 43.9005 | |
| 67 Octane | 85 | 5.000 | 5.000 | (0.810) | 180194 | 38.3388 | 38.3388 | |
| $ 68 Toluene-d8 | 98 | 5.114 | 5.120 | (0.829) | 835520 | 27.6150 | 27.6150 | |
| 69 Toluene | 92 | 5.153 | 5.153 | (0.835) | 858364 | 44.7604 | 44.7604 | |
| 70 Chloroacetonitrile | 75 | 5.207 | 5.213 | (0.844) | 118069 | 246.977 | 246.977 | |
| 71 2-Nitropropane | 41 | 5.300 | 5.300 | (0.859) | 472406 | 224.832 | 224.832 | |
| 72 1,1-Dichloro-2-propanone | 63 | 5.316 | 5.316 | (0.861) | 44432 | 218.793 | 218.793(Q) | |
| 73 4-Methyl-2-Pentanone(MIBK) | 43 | 5.371 | 5.371 | (0.870) | 1896985 | 250.489 | 250.489 | |
| 75 trans-1,3-Dichloropropene | 75 | 5.409 | 5.409 | (0.876) | 520501 | 43.5154 | 43.5154 | |
| 74 Tetrachloroethene | 164 | 5.409 | 5.409 | (0.876) | 331283 | 47.4416 | 47.4416 | |

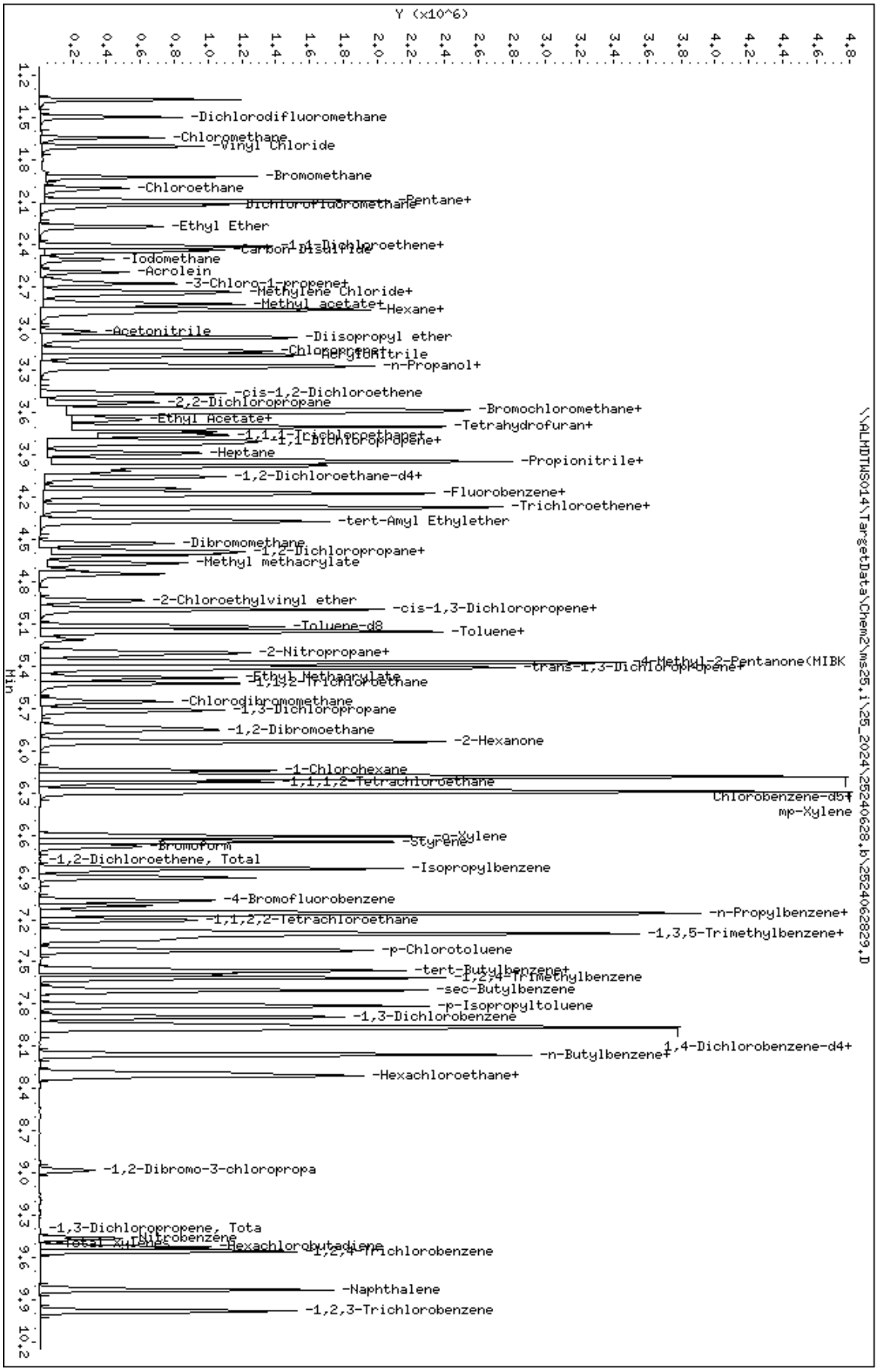
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Report Date: 30-Jun-2024 15:02



| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/L) | REVIEW CODE |
|---|---|---|---|---|---|---|---|---|---|
| | 76 Ethyl methacrylate | 69 | 5.480 | 5.480 | (0.888) | 537352 | 46.5111 | 46.5111 | |
| | 77 1,1,2-Trichloroethane | 83 | 5.518 | 5.524 | (0.894) | 288637 | 48.9880 | 48.9880 | |
| | 78 Chlorodibromomethane | 129 | 5.649 | 5.649 | (0.915) | 362794 | 43.4851 | 43.4851 | |
| | 79 1,3-Dichloropropane | 76 | 5.715 | 5.715 | (0.926) | 587376 | 50.4563 | 50.4563 | |
| | 80 1,2-Dibromoethane | 107 | 5.829 | 5.829 | (0.944) | 356010 | 45.4159 | 45.4159 | |
| | 81 2-Hexanone | 43 | 5.933 | 5.933 | (0.961) | 1274042 | 245.242 | 245.242 | |
| | 82 1-Chlorohexane | 91 | 6.146 | 6.146 | (0.996) | 469930 | 46.5805 | 46.5805 | |
| * | 83 Chlorobenzene-d5 | 82 | 6.173 | 6.173 | (1.000) | 382152 | 30.0000 | | |
| | 85 Ethylbenzene | 106 | 6.189 | 6.189 | (1.003) | 497347 | 43.5094 | 43.5094 | |
| | 84 Chlorobenzene | 112 | 6.184 | 6.184 | (1.002) | 928765 | 47.5253 | 47.5253 | |
| | 86 1,1,1,2-Tetrachloroethane | 131 | 6.222 | 6.222 | (1.008) | 325454 | 44.1445 | 44.1445 | |
| | 87 mp-Xylene | 106 | 6.288 | 6.288 | (1.019) | 1182450 | 87.0549 | 87.0549 | |
| M | 120 1,3-Dichloropropene, Total | 75 | | | | 1087621 | 87.4159 | 87.4159 | |
| | 88 o-Xylene | 106 | 6.610 | 6.610 | (1.071) | 577425 | 44.4001 | 44.4001 | |
| | 89 Styrene | 104 | 6.648 | 6.648 | (0.836) | 932750 | 48.8613 | 48.8613 | |
| | 90 Bromoform | 173 | 6.680 | 6.680 | (0.840) | 239570 | 44.4634 | 44.4634 | |
| | 91 Isopropylbenzene | 105 | 6.839 | 6.839 | (0.860) | 1301392 | 48.9014 | 48.9014 | |
| $ | 92 4-Bromofluorobenzene | 174 | 7.068 | 7.068 | (0.889) | 262926 | 29.4423 | 29.4423 | |
| M | 121 TOTAL XYLENES | 106 | | | | 1759875 | 131.455 | 131.455 | |
| | 94 n-Propylbenzene | 120 | 7.155 | 7.155 | (0.900) | 396133 | 50.7584 | 50.7584 | |
| | 93 Bromobenzene | 156 | 7.155 | 7.155 | (0.900) | 389157 | 50.9900 | 50.9900 | |
| | 95 1,1,2,2-Tetrachloroethane | 83 | 7.204 | 7.204 | (0.906) | 417109 | 54.9865 | 54.9865 | |
| | 97 1,3,5-Trimethylbenzene | 105 | 7.303 | 7.303 | (0.918) | 1118950 | 51.5170 | 51.5170 | |
| | 96 o-Chlorotoluene | 91 | 7.292 | 7.292 | (0.917) | 1080859 | 52.6401 | 52.6401 | |
| | 98 1,2,3-Trichloropropane | 110 | 7.324 | 7.324 | (0.921) | 129851 | 53.0742 | 53.0742 | |
| | 99 trans-1,4-Dichloro-2-butene | 53 | 7.346 | 7.346 | (0.924) | 110229 | 47.3695 | 47.3695 | |
| | 101 p-Chlorotoluene | 91 | 7.417 | 7.417 | (0.933) | 978055 | 52.5878 | 52.5878 | |
| | 102 tert-Butylbenzene | 134 | 7.559 | 7.559 | (0.951) | 274430 | 52.8285 | 52.8285 | |
| | 103 Pentachloroethane | 117 | 7.586 | 7.586 | (0.954) | 225745 | 43.3149 | 43.3149(QM) | MP |
| | 104 1,2,4-Trimethylbenzene | 105 | 7.614 | 7.614 | (0.957) | 1122954 | 48.8222 | 48.8222 | |
| | 105 sec-Butylbenzene | 105 | 7.701 | 7.701 | (0.968) | 1424919 | 53.0807 | 53.0807 | |
| | 106 p-Isopropyltoluene | 134 | 7.810 | 7.815 | (0.982) | 318897 | 51.8753 | 51.8753 | |
| | 107 1,3-Dichlorobenzene | 146 | 7.892 | 7.892 | (0.992) | 659391 | 51.2832 | 51.2832 | |
| * | 108 1,4-Dichlorobenzene-d4 | 152 | 7.952 | 7.952 | (1.000) | 322801 | 30.0000 | | |
| | 109 1,4-Dichlorobenzene | 146 | 7.963 | 7.963 | (1.001) | 682826 | 50.9482 | 50.9482 | |
| | 111 n-Butylbenzene | 134 | 8.159 | 8.159 | (1.026) | 281265 | 48.9601 | 48.9601(Q) | |
| | 110 Benzyl Chloride | 126 | 8.159 | 8.159 | (1.026) | 97200 | 30.4434 | 30.4434(Q) | |
| | 112 Hexachloroethane | 117 | 8.290 | 8.290 | (1.043) | 209993 | 45.6209 | 45.6209 | |
| | 113 1,2-Dichlorobenzene | 146 | 8.312 | 8.312 | (1.045) | 641643 | 52.3882 | 52.3882 | |
| | 114 1,2-Dibromo-3-chloropropane | 75 | 8.978 | 8.983 | (1.129) | 67946 | 46.8626 | 46.8626 | |
| | 115 Nitrobenzene | 77 | 9.463 | 9.463 | (1.190) | 212100 | 451.116 | 451.116 | |
| | 116 Hexachlorobutadiene | 225 | 9.529 | 9.529 | (1.198) | 173297 | 42.8044 | 42.8044 | |
| | 117 1,2,4-Trichlorobenzene | 180 | 9.556 | 9.556 | (1.202) | 406711 | 50.1434 | 50.1434 | |
| | 118 Naphthalene | 128 | 9.829 | 9.829 | (1.236) | 1109774 | 46.5708 | 46.5708 | |
| | 119 1,2,3-Trichlorobenzene | 180 | 9.982 | 9.982 | (1.255) | 406481 | 44.6345 | 44.6345 | |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

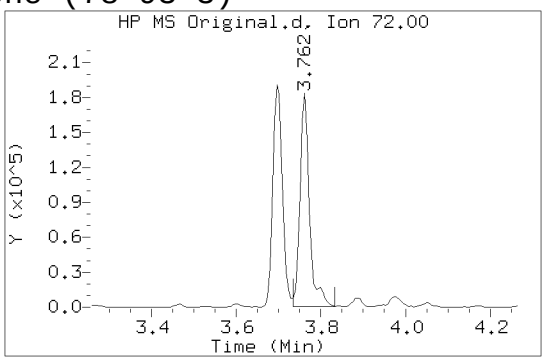

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Instrument: ms25,i
Operator: THP
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-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-Carbon disulfide
-Iodomethane
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile
-Diisopropyl ether
-Acrylonitrile
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Tetrahydrofuran+
-Heptane
-Propionitrile+
-1,2-Dichloroethane-d4+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-o-Xylene
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,1,2,2-Tetrachloroethane
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
Nitrobenzene
Total Xylenes
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene

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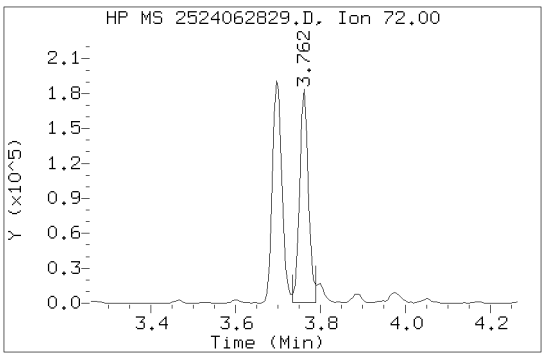
## 2-Butanone (78-93-3)

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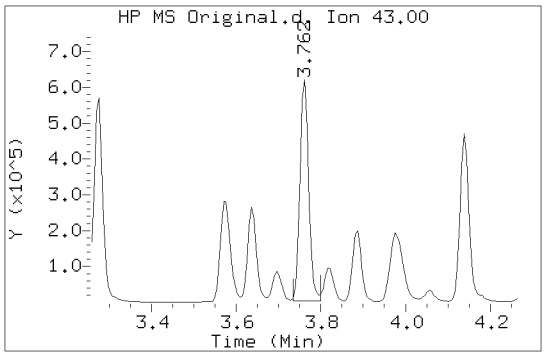
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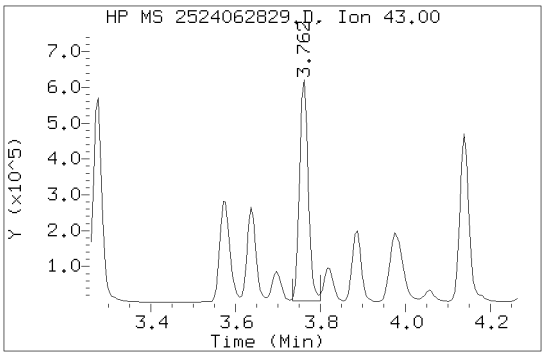

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29-Jun-2024
10:34



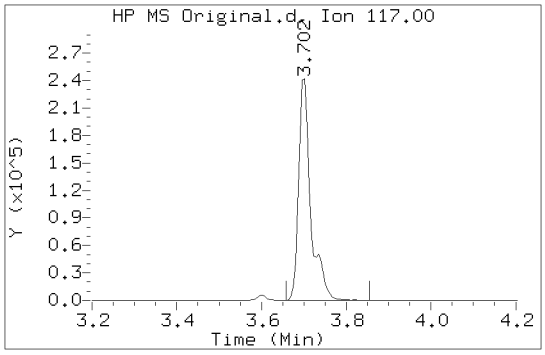

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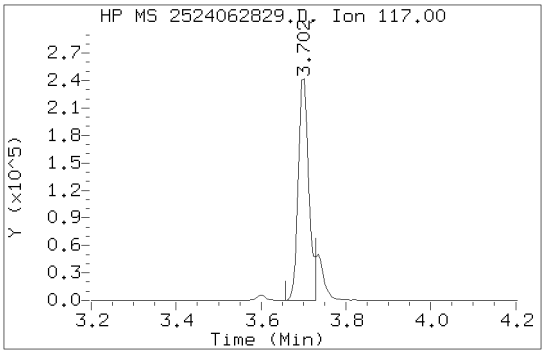

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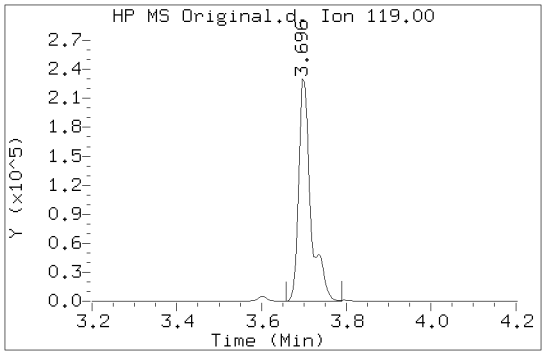
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29-Jun-2024
10:34



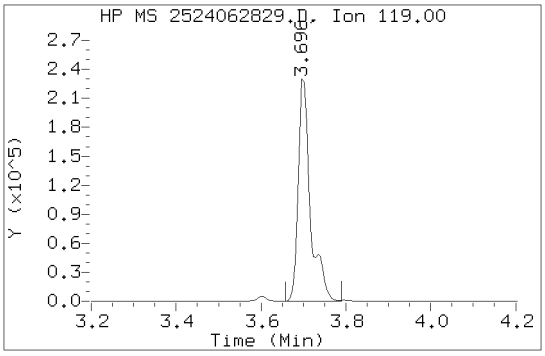

AFTER
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15:02




BEFORE
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AFTER
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30-Jun-2024
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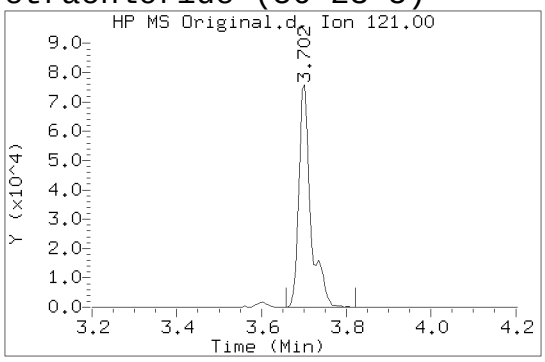
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## Carbon Tetrachloride (56-23-5)

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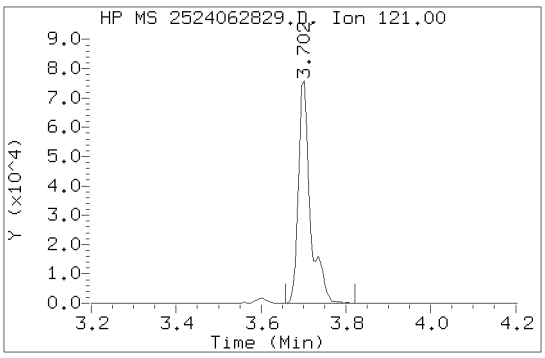
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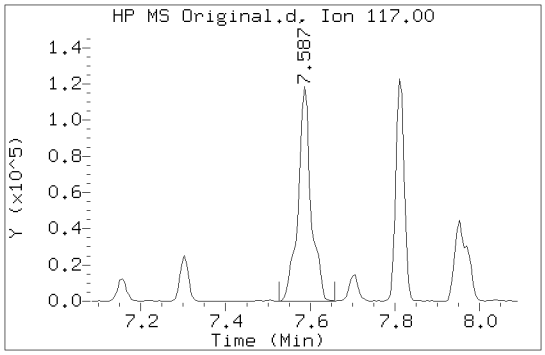



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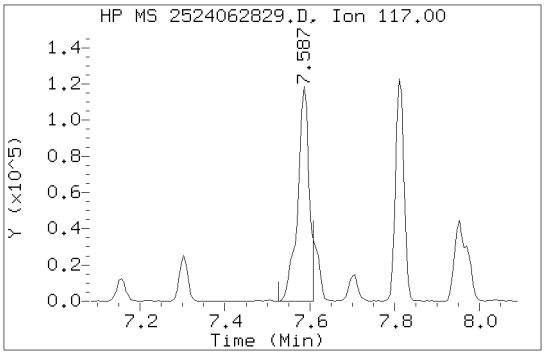
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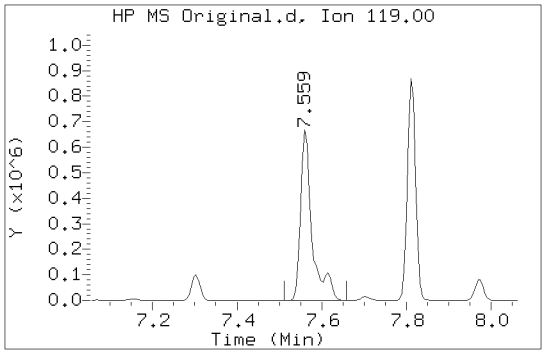

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30-Jun-2024
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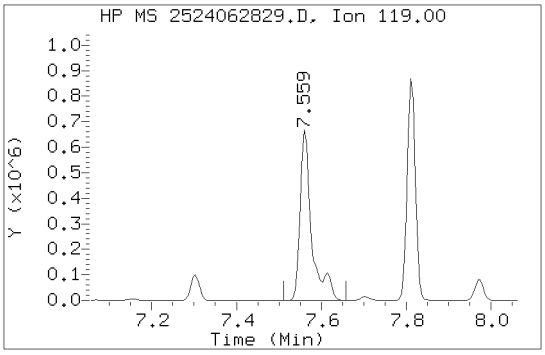

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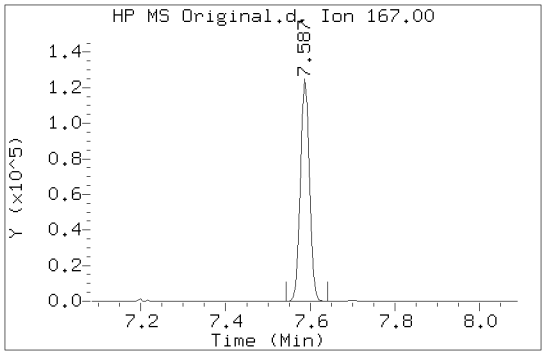

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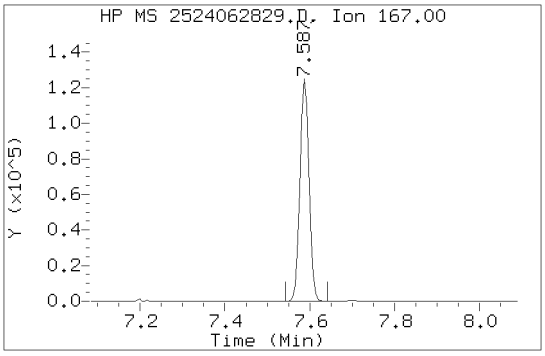

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**AFTER**

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30-Jun-2024
15:02



# UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:02
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406282
Inj Date: 28-JUN-2024 19:34
Operator: TMP

There were no Unassigned peaks in this sample!

# HS24061196 E2400716 Perch Level IV Report REV01

ALS WO# HS24061196

June 26, 2024 Service Request No:E2400716

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

**Laboratory Results for: HS24061196**

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory June 19, 2024
For your reference, these analyses have been assigned our service request number **E2400716.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

# Certificate of Analysis

**ALS Environmental - Houston Specialties Laboratory**
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request No.:** | E2400716 |
| **Project:** | HS24061196 | **Date Received:** | 06/19/24 |
| **Sample Matrix:** | Water | | |

## CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

### Sample Receipt

Ten samples were received for analysis at ALS Environmental in Houston on 06/19/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

### Data Validation Notes and Discussion

**Precision and Accuracy:**

EQ2400345: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

Samples E2400716-003 ran at DF-10 due to matrix interference suppressing the internal standard in the undiluted run.

The results for the DMS, EQ2400345-06, recovered above the acceptance criteria due to matrix interference.

This report has been revised on 06/27/2024 as the case narrative from the lab had been missed.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*

**Client:** ALS Environmental - US **Service Request:**E2400716
**Project:** HS24061196

## SAMPLE CROSS-REFERENCE

| SAMPLE # | CLIENT SAMPLE ID | DATE | TIME |
|---|---|---|---|
| E2400716-001 | 18PTMW14_061824 | 6/18/2024 | 0710 |
| E2400716-002 | 18WW03_061824 | 6/18/2024 | 0800 |
| E2400716-003 | CO8_061824 | 6/18/2024 | 0845 |
| E2400716-004 | 1824DPTMW04_061824 | 6/18/2024 | 0930 |
| E2400716-005 | 18WW24_061824 | 6/18/2024 | 1015 |
| E2400716-006 | 18WW24_061824_a | 6/18/2024 | 1015 |
| E2400716-007 | CO2_061824 | 6/18/2024 | 1100 |
| E2400716-008 | MW13_061824 | 6/18/2024 | 1140 |
| E2400716-009 | MW13_061824_a | 6/18/2024 | 1140 |
| E2400716-010 | CO6_061824 | 6/18/2024 | 1230 |

# Service Request Summary

**Folder #:** **E2400716**
Client Name: ALS Environmental - US
Project Name: HS24061196
Project Number:

**Report To:** Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/19/24
Internal Due Date: 7/1/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

12 120 mL-Plastic Bottle Natural WM Unpreserved
**Location:** EHRMS-WIC 1A
**Pressure Gas:**

| Lab Samp No. | Client Samp No | Matrix | Collected | HOUSTON<br>ClO4 DOD/6850 |
|---|---|---|---|---|
| E2400716-001 | 18PTMW14_061824 | Water | 06/18/24 0710 | **IV** |
| E2400716-002 | 18WW03_061824 | Water | 06/18/24 0800 | **IV** |
| E2400716-003 | CO8_061824 | Water | 06/18/24 0845 | **IV** |
| E2400716-004 | 1824DPTMW04_061824 | Water | 06/18/24 0930 | **IV** |
| E2400716-005 | 18WW24_061824 | Water | 06/18/24 1015 | **IV** |
| E2400716-006 | 18WW24_061824_a | Water | 06/18/24 1015 | **IV** |
| E2400716-007 | CO2_061824 | Water | 06/18/24 1100 | **IV** |
| E2400716-008 | MW13_061824 | Water | 06/18/24 1140 | **IV** |
| E2400716-009 | MW13_061824_a | Water | 06/18/24 1140 | **IV** |
| E2400716-010 | CO6_061824 | Water | 06/18/24 1230 | **IV** |

# Service Request Summary

**Folder #:** **E2400716**
Client Name: ALS Environmental - US
Project Name: HS24061196
Project Number:

**Report To:** Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/19/24
Internal Due Date: 7/1/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

12 120 mL-Plastic Bottle Natural WM Unpreserved
**Location:** EHRMS-WIC 1A
**Pressure Gas:**

# Data Qualifiers

## Lab Standard

| | |
|---|---|
| + | Possible Tedlar bag artifact. |
| A | TIC is a suspected aldol-condensation product |
| B | Analyte found in the associated method blank as well as in the sample. |
| BC | Reported results are not blank corrected. |
| BH | The back section of the tube yielded higher results than the front. |
| BT | Results indicated possible breakthrough; back section >=10% front section. |
| C | Result identification confirmed. |
| D | Compound identified in an analysis at a secondary dilution factor |
| D | Spike was diluted out |
| DE | Reported results are corrected for desorption efficiency. |
| E | Estimated value. Concentration above calibration range |
| E | The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample. |
| F | The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard. |
| H | The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard. |
| H1 | Sample analysis performed past holding time. See case narrative. |
| H2 | Initial analysis within holding time. Reanalysis for the required dilution was past holding time. |
| H3 | Sample was received and analyzed past holding time. |
| H4 | Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative. |
| I | (Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result. |
| I | Internal standard not within the specified limits. See case narrative. |
| I | The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result. |
| J | Estimated Value. Concentration found below MRL. |
| K | A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate. |
| K | Analyte was detected above the method reporting limit prior to normalization. |
| K | The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result. |
| L | The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard. |
| L1 | Laboratory control sample recovery outside the specified limits; results may be biased high. |
| L2 | Laboratory control sample recovery outside the specified limits; results may be biased low. |
| L3 | Laboratory control sample recovery outside the specified limits. |
| M | Matrix interference; results may be biased high. |
| M | The duplicate injection precision not met. |

# Data Qualifiers

## Lab Standard

| | |
|---|---|
| M1 | Matrix interference due to coelution with a non-target compound; results may be biased high. |
| N | Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search. |
| N | The Matrix Spike sample recovery is not within control limits. See case narrative. |
| O | The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard. |
| P | Indicates chlorodiphenyl ether interference present at the retention time of the target compound. |
| P | Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns |
| Q | Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria. |
| R | Duplicate Precision not met. |
| R1 | Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated. |
| S | Surrogate recovery not within specified limits. |
| S | The reported value was determined by the Method of Standard Additions (MSA). |
| T | Analyte is a tentatively identified compound, result is estimated. |
| U | Compound was analyzed for, but was not detected (ND). |
| V1 | The continuing calibration verification standard was outside (biased high) the specified limits for this compound. |
| V2 | The continuing calibration verification standard was outside (biased low) the specified limits for this compound. |
| W | Result quantified, but the corresponding peak was detected outside the generated retention time window. |
| W | The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance. |
| X | See case narrative. |
| Y | Recovery outside limits |
| Y | The chromatogram resembles a petroleum product but does not match the calibration standard. |
| Z | The chromatogram does not resemble a petroleum product. |
| i | The MRL/MDL has been elevated due to a matrix interference. |

# ALS Laboratory Group

**Acronyms**

| | |
|---|---|
| Cal | Calibration |
| Conc | CONCentration |
| Dioxin(s) | Polychlorinated dibenzo-p-dioxin(s) |
| EDL | Estimated Detection Limit |
| EMPC | Estimated Maximum Possible Concentration |
| Flags | Data qualifiers |
| Furan(s) | Polychlorinated dibenzofuran(s) |
| g | Grams |
| ICAL | Initial CALibration |
| ID | IDentifier |
| Ions | Masses monitored for the analyte during data acquisition |
| L | Liter (s) |
| LCS | Laboratory Control Sample |
| DLCS | Duplicate Laboratory Control Sample |
| MB | Method Blank |
| MCL | Method Calibration Limit |
| MDL | Method Detection Limit |
| mL | Milliliters |
| MS | Matrix Spiked sample |
| DMS | Duplicate Matrix Spiked sample |
| NO | Number of peaks meeting all identification criteria |
| PCDD(s) | Polychlorinated dibenzo-p-dioxin(s) |
| PCDF(s) | Polychlorinated dibenzofuran(s) |
| ppb | Parts per billion |
| ppm | Parts per million |
| ppq | Parts per quadrillion |
| ppt | Parts per trillion |
| QA | Quality Assurance |
| QC | Quality Control |
| Ratio | Ratio of areas from monitored ions for an analyte |
| % Rec. | Percent recovery |
| RPD | Relative Percent Difference |
| RRF | Relative Response Factor |
| RT | Retention Time |
| SDG | Sample Delivery Group |
| S/N | Signal-to-noise ratio |
| TEF | Toxicity Equivalence Factor |
| TEQ | Toxicity Equivalence Quotient |

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ALS Environmental

## State Certifications, Accreditations, and Licenses

| Agency | Number | Expire Date |
|---|---|---|
| Arkansas Department of Environmental Quality | 88-00356 | 3/28/2025 |
| California State Environmental Laboratory Accreditation Program | 2919-2024 | 4/30/2025 |
| Department of Defense | L24-240 | 4/30/2026 |
| Florida Department of Health | E87611-38 | 6/30/2024 |
| Hawaii Department of Health | 2024 | 4/30/2025 |
| Illinois Environmental Protection Agency | 2000322023-11 | 6/30/2024 |
| Kansas Department of Health and Environment | E-10352 2023-2024 | 7/31/2024 |
| Louisiana Department of Environmental Quality | 03087-2023 | 6/30/2024 |
| Louisiana Department of Health and Hospitals | LA028-2024 | 12/31/2024 |
| Maryland Department of the Environment | 343-2023 | 6/30/2024 |
| Minnesota Department of Health | 2645386 | 12/31/2024 |
| Nevada Division of Environmental Protection | TX026932024-1 | 7/31/2024 |
| New Hampshire Environmental Laboratory Accreditation Program | 209424-A | 4/24/2025 |
| New Jersey Department of Environmental Protection | TX008-2024 | 6/30/2024 |
| Oklahoma Department of Environmental Quality | 2023-140 | 8/31/2024 |
| Oregon Environmental Laboratory Accreditation Program | TX200002-2024 | 5/15/2025 |
| Pennsylvania Department of Environmental Protection | 68-03441-017 | 6/30/2024 |
| Tennessee Department of Environment and Conservation | 04016-2024 | 4/30/2025 |
| Texas Commision on Environmental Quality | TX-C24-00130 | 4/30/2025 |
| Utah Department of Health Environmental Laboratory Certification | TX026932023-14 | 7/31/2024 |
| Washington Department of Ecology | C819-23 | 11/14/2024 |

# Chain of Custody

**ALS Environmental - Houston Specialties Laboratory**
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
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E2400716 5
ALS Laboratory Group
Perchlorates

10450 Stancliff Rd, Ste 210
Houston, TX 77099
**T:** +1 281 530 5656
**F:** +1 281 530 5887
**www.alsglobal.com**

# Subcontract Chain of Custody

**SAMPLING STATE:** **Texas** **COC ID:** **26089**

**SUBCONTRACT TO:**

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

**Phone:** +1 281 530 5656

**CUSTOMER INFORMATION:**

| | |
|---|---|
| **Company:** | ALS Houston |
| **Contact:** | Luis.Aguilar |
| **Address:** | 10450 Stancliff Rd, Ste 210 |
| **Phone:** | +1 281 530 5656 |
| **Email:** | luis.aguilar@alsglobal.com |
| **Alternate Contact:** | Jumoke M. Lawal |
| **Email:** | jumoke.lawal@alsglobal.com |

**INVOICE INFORMATION:**

| | |
|---|---|
| **Company:** | ALS Houston |
| **Contact:** | Accounts Payable |
| **Address:** | 10450 Stancliff Rd, Ste 210 |
| **Phone:** | +1 281 530 5656 |
| **Reference:** | HS24061196 |
| **TSR:** | Sonia West |

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|---|---|---|---|---|
| | ANALYSIS REQUESTED | | | DUE DATE |
| 1. | **HS24061196-01** | **18PTMW14_061824** | **Water** | **18 Jun 2024 07:10** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| 2. | **HS24061196-02** | **18WW03_061824** | **Water** | **18 Jun 2024 08:00** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| 3. | **HS24061196-03** | **CO8_061824** | **Water** | **18 Jun 2024 08:45** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| 4. | **HS24061196-04** | **1824DPTMW04_061824** | **Water** | **18 Jun 2024 09:30** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| 5. | **HS24061196-05** | **18WW24_061824** | **Water** | **18 Jun 2024 10:15** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| 6. | **HS24061196-06** | **18WW24_061824_a** | **Water** | **18 Jun 2024 10:15** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| 7. | **HS24061196-07** | **CO2_061824** | **Water** | **18 Jun 2024 11:00** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| 8. | **HS24061196-08** | **MW13_061824** | **Water** | **18 Jun 2024 11:40** |

# Subcontract Chain of Custody

**SAMPLING STATE:** **Texas** **COC ID:** **26089**

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|---|---|---|---|---|
| | ANALYSIS REQUESTED | | | DUE DATE |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| **9.** | **HS24061196-09** | **MW13_061824_a** | **Water** | **18 Jun 2024 11:40** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| **10.** | **HS24061196-10** | **CO6_061824** | **Water** | **18 Jun 2024 12:30** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |

**Comments:** Please analyze for the analysis listed above.
Send report to the emails shown above.

**QC Level:** DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: 6/20/24 1146

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

E2400716
ALS Laboratory Group
Perchlorates
5

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Houston, TX 77099
**T:** +1 281 530 5656
**F:** +1 281 530 5887
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# Sample Receipt Checklist

**Work Order ID:** HS24061196 **Date/Time received:** 19 Jun 2024 10:05

**Client name:** Bhate Environmental Associates, Inc. **Received by:** Si Ma

**Completed/By:** 19 Jun 2024 18:52 Belinda Gomez **Reviewed/By:**
Date/Time eSignature Date/Time eSignature

**Matrices:** w **Carrier name:** FedEx

| | | | | |
|---|---|---|---|---|
| **Shipping container/cooler in good condition?** | ☑ Yes | ☐ No | ☐ Not Present | |
| **Custody seals intact on shipping container/cooler?** | ☑ Yes | ☐ No | ☐ Not Present | |
| **Custody seals intact on Sample bottles?** | ☐ Yes | ☐ No | ☑ Not Present | |
| **VOA/TX1005/TX1006 Solids in hermetically sealed vials?** | ☐ Yes | ☐ No | ☑ Not Present | |
| **Chain of custody present?** | ☑ Yes | ☐ No | 2 Page(s) | |
| **Chain of custody signed when relinquished and received?** | ☑ Yes | ☐ No | COC ID(s): | |
| **Samplers name present on COC?** | ☑ Yes | ☐ No | | |
| **Chain of custody agrees with sample labels?** | ☑ Yes | ☐ No | | |
| **Samples in proper container/bottle?** | ☑ Yes | ☐ No | | |
| **Sample containers intact?** | ☑ Yes | ☐ No | | |
| **Sufficient sample volume for indicated test?** | ☑ Yes | ☐ No | | |
| **All samples received within holding time?** | ☑ Yes | ☐ No | | |
| **Container/Temp Blank temperature in compliance?** | ☑ Yes | ☐ No | | |

**Temperature(s)/Thermometer(s):** 2.6uc/2.7c ir31

**Cooler Information:** 1 Cooler(s), 51037

**Date/Time sample(s) sent to storage:** 6/19/2024 1853

| | | | |
|---|---|---|---|
| **Water - VOA vials have zero headspace?** | ☑ Yes | ☐ No | ☐ No VOA vials submitted |
| **Water - pH acceptable upon receipt?** | ☑ Yes | ☐ No | ☐ Not Applicable |
| **pH adjusted?** | ☐ Yes | ☑ No | ☐ Not Applicable |

**pH adjusted by:**

**Login notes:**

**Client contacted:** **Date contacted:** **Person contacted:**

**Contacted by:** **Regarding:**

**Comments:**

**Corrective action:**

10450 Stancliff Rd., Suite 210
Houston, TX 77099
**T:** +1 281 530 5656
**F:** +1 281 530 5887
**www.alsglobal.com**

# SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

**Cooler Custody Seals (desirable, mandatory if specified in SAP):**

- ✓ Intact on outside of cooler, signed and dated

**Chain-of-Custody (COC) documentation (mandatory):**

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

**Sample Integrity (mandatory):**

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

**Temperature Requirement (varies by sample matrix):**

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

# Preparation Information Benchsheets

**ALS Environmental - Houston Specialties Laboratory**
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

# *Preparation Information Benchsheet*

**Prep Run#:** 440573 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
**Team:** Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/24/24 13:00

| # | Lab Code | Client ID | B# | Method /Test | pH | Cl | Matrix | Amt. Ext. | Sample Description |
|---|---|---|---|---|---|---|---|---|---|
| 1 | E2400716-001 | 18PTMW14_061824 | .01 | 6850/ClO4 DOD | | | Water | 10mL | |
| 2 | E2400716-002 | 18WW03_061824 | .01 | 6850/ClO4 DOD | | | Water | 10mL | |
| 3 | E2400716-003 | CO8_061824 | .01 | 6850/ClO4 DOD | | | Water | 10mL | |
| 4 | E2400716-004 | 1824DPTMW04_061824 | .01 | 6850/ClO4 DOD | | | Water | 10mL | |
| 5 | E2400716-005 | 18WW24_061824 | .01 | 6850/ClO4 DOD | | | Water | 10mL | |
| 6 | E2400716-006 | 18WW24_061824_a | .01 | 6850/ClO4 DOD | | | Water | 10mL | |
| 7 | E2400716-007 | CO2_061824 | .01 | 6850/ClO4 DOD | | | Water | 10mL | |
| 8 | E2400716-008 | MW13_061824 | .01 | 6850/ClO4 DOD | | | Water | 10mL | |
| 9 | E2400716-009 | MW13_061824_a | .01 | 6850/ClO4 DOD | | | Water | 10mL | |
| 10 | E2400716-010 | CO6_061824 | .01 | 6850/ClO4 DOD | | | Water | 10mL | |
| 11 | E2400721-001 | LGAC-INF-061724 | .05 | 6850/ClO4 | | | Water | 10mL | |
| 12 | E2400721-002 | FBR-INF-061724 | .05 | 6850/ClO4 | | | Water | 10mL | |
| 13 | E2400721-003 | FBR-EFF-061724 | .01 | 6850/ClO4 | | | Water | 10mL | |
| 14 | EQ2400345-01 | MB | | 6850/ClO4 | | | Liquid | 10mL | |
| 15 | EQ2400345-02 | LCS | | 6850/ClO4 | | | Liquid | 10mL | |
| 16 | EQ2400345-03 | DLCS | | 6850/ClO4 | | | Liquid | 10mL | |
| 17 | EQ2400345-04 | ICS | | 6850/ClO4 | | | Liquid | 10mL | |
| 18 | EQ2400345-05 | CO6_061824 MS | .01 | 6850/ClO4 DOD | | | Liquid | 10mL | |
| 19 | EQ2400345-06 | CO6_061824 DMS | .01 | 6850/ClO4 DOD | | | Liquid | 10mL | |

**Spiking Solutions**

Name: Perchlorate Intermediate Stock1 Inventory ID 233554 Logbook Ref: Perchlorate (2nd Source) Expires On: 08/05/2024

E2400716-004 100.00µL

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400345-02 10.00µL EQ2400345-02 10.00µL EQ2400345-03 10.00µL EQ2400345-03 10.00µL EQ2400345-04 10.00µL EQ2400345-04 10.00µL
EQ2400345-05 10.00µL EQ2400345-06 10.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400345-04 20.00µL EQ2400345-04 20.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400716-001 100.00µL E2400716-002 100.00µL E2400716-003 100.00µL E2400716-004 100.00µL E2400716-005 100.00µL E2400716-006 100.00µL

# *Preparation Information Benchsheet*

**Prep Run#:** 440573 **Prep WorkFlow:** GenExt28Day **Status:** Prepped

**Team:** Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/24/24 13:00

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| E2400716-007 | 100.00µL | E2400716-008 | 100.00µL | E2400716-009 | 100.00µL | E2400716-010 | 100.00µL | E2400721-001 | 100.00µL | E2400721-002 | 100.00µL |
| E2400721-003 | 100.00µL | EQ2400345-01 | 100.00µL | EQ2400345-01 | 100.00µL | EQ2400345-02 | 100.00µL | EQ2400345-02 | 100.00µL | EQ2400345-03 | 100.00µL |
| EQ2400345-03 | 100.00µL | EQ2400345-04 | 100.00µL | EQ2400345-04 | 100.00µL | EQ2400345-05 | 100.00µL | EQ2400345-06 | 100.00µL | | |

## Preparation Materials

| | | | |
|---|---|---|---|
| 6850 0.45um syringe filters | 6850 0.45 SYRING FILTER (229979) | 6850 Luer-Lok Syringes | Luer Lok Syringes (231696) |

## Preparation Steps

Step: Preparation
Started: 6/24/24 13:00
Finished: 6/24/24 14:00
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

# Analytical Results

**ALS Environmental - Houston Specialties Laboratory**
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400716 |
| **Project:** | HS24061196 | **Date Collected:** | 6/18/24 0710 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | 18PTMW14_061824 | **Units:** | µg/L |
| **Lab Code:** | E2400716-001 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | **788** | | 10.0 | 5.00 | 2.50 | 100 | 6/24/24 | 6/25/24 15:07 | 440573 | 845520 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400716 |
| **Project:** | HS24061196 | **Date Collected:** | 6/18/24 0800 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | 18WW03_061824 | **Units:** | µg/L |
| **Lab Code:** | E2400716-002 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | U | 0.100 | 0.0500 | 0.0250 | 1 | 6/24/24 | 6/24/24 16:43 | 440573 | 845518 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400716 |
| **Project:** | HS24061196 | **Date Collected:** | 6/18/24 0845 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | CO8_061824 | **Units:** | µg/L |
| **Lab Code:** | E2400716-003 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | U | 1.00 | 0.500 | 0.250 | 10 | 6/24/24 | 6/25/24 15:12 | 440573 | 845520 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400716 |
| **Project:** | HS24061196 | **Date Collected:** | 6/18/24 0930 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | 1824DPTMW04_061824 | **Units:** | µg/L |
| **Lab Code:** | E2400716-004 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | **16.6** | | 1.00 | 0.500 | 0.250 | 10 | 6/24/24 | 6/25/24 15:18 | 440573 | 845520 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400716 |
| **Project:** | HS24061196 | **Date Collected:** | 6/18/24 1015 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | 18WW24_061824 | **Units:** | µg/L |
| **Lab Code:** | E2400716-005 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | U | 0.100 | 0.0500 | 0.0250 | 1 | 6/24/24 | 6/24/24 17:11 | 440573 | 845518 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400716 |
| **Project:** | HS24061196 | **Date Collected:** | 6/18/24 1015 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | 18WW24_061824_a | **Units:** | µg/L |
| **Lab Code:** | E2400716-006 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | U | 0.100 | 0.0500 | 0.0250 | 1 | 6/24/24 | 6/24/24 17:16 | 440573 | 845518 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400716 |
| **Project:** | HS24061196 | **Date Collected:** | 6/18/24 1100 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | CO2_061824 | **Units:** | µg/L |
| **Lab Code:** | E2400716-007 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | U | 0.100 | 0.0500 | 0.0250 | 1 | 6/24/24 | 6/24/24 17:22 | 440573 | 845518 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400716 |
| **Project:** | HS24061196 | **Date Collected:** | 6/18/24 1140 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | MW13_061824 | **Units:** | µg/L |
| **Lab Code:** | E2400716-008 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | U | 0.100 | 0.0500 | 0.0250 | 1 | 6/24/24 | 6/24/24 17:27 | 440573 | 845518 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400716 |
| **Project:** | HS24061196 | **Date Collected:** | 6/18/24 1140 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | MW13_061824_a | **Units:** | µg/L |
| **Lab Code:** | E2400716-009 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | U | 0.100 | 0.0500 | 0.0250 | 1 | 6/24/24 | 6/24/24 17:33 | 440573 | 845518 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400716 |
| **Project:** | HS24061196 | **Date Collected:** | 6/18/24 1230 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | CO6_061824 | **Units:** | µg/L |
| **Lab Code:** | E2400716-010 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | **0.118** | | 0.100 | 0.0500 | 0.0250 | 1 | 6/24/24 | 6/24/24 17:38 | 440573 | 845518 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400716 |
| **Project:** | HS24061196 | **Date Collected:** | NA |
| **Sample Matrix:** | Water | **Date Received:** | NA |
| **Sample Name:** | Method Blank | **Units:** | µg/L |
| **Lab Code:** | EQ2400345-01 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | U | 0.100 | 0.0500 | 0.0250 | 1 | 6/24/24 | 6/24/24 14:08 | 440573 | 845518 | |

# Accuracy & Precision

**ALS Environmental - Houston Specialties Laboratory**
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

**ALS Group USA, Corp.**
**dba ALS Environmental**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400716 |
| **Project:** | HS24061196 | **Date Analyzed:** | 06/24/24 |
| **Sample Matrix:** | Water | **Date Extracted:** | 06/24/24 |

## Duplicate Lab Control Sample Summary
## Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

| | | | |
|---|---|---|---|
| **Analysis Method:** | 6850 | **Units:** | ug/L |
| **Prep Method:** | Method | **Basis:** | NA |
| | | **Analysis Lot:** | 845518 |

| | Lab Control Sample EQ2400345-02 | | | Duplicate Lab Control Sample EQ2400345-03 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Analyte Name** | **Result** | **Spike Amount** | **% Rec** | **Result** | **Spike Amount** | **% Rec** | **% Rec Limits** | **RPD** | **RPD Limit** |
| Perchlorate | 0.115 | 0.100 | 115 | 0.112 | 0.100 | 112 | 84-119 | 2 | 15 |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400716 |
| **Project:** | HS24061196 | **Date Collected:** | NA |
| **Sample Matrix:** | Water | **Date Received:** | NA |
| **Sample Name:** | Lab Control Sample | **Units:** | µg/L |
| **Lab Code:** | EQ2400345-02 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | **0.115** | | 0.100 | 0.0500 | 0.0250 | 1 | 6/24/24 | 6/24/24 14:14 | 440573 | 845518 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400716 |
| **Project:** | HS24061196 | **Date Collected:** | NA |
| **Sample Matrix:** | Water | **Date Received:** | NA |
| **Sample Name:** | Duplicate Lab Control Sample | **Units:** | µg/L |
| **Lab Code:** | EQ2400345-03 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | **0.112** | | 0.100 | 0.0500 | 0.0250 | 1 | 6/24/24 | 6/24/24 14:19 | 440573 | 845518 | |

**ALS Group USA, Corp.**
**dba ALS Environmental**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400716 |
| **Project:** | HS24061196 | **Date Collected:** | 06/18/24 |
| **Sample Matrix:** | Water | **Date Received:** | 06/19/24 |
| | | **Date Analyzed:** | 06/24/24 |
| | | **Date Extracted:** | 06/24/24 |

**Duplicate Matrix Spike Summary**
**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

| | | | |
|---|---|---|---|
| **Sample Name:** | CO6_061824 | **Units:** | ug/L |
| **Lab Code:** | E2400716-010 | **Basis:** | NA |
| **Analysis Method:** | 6850 | | |
| **Prep Method:** | Method | | |

| | | Matrix Spike EQ2400345-05 | | | Duplicate Matrix Spike EQ2400345-06 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte Name** | **Sample Result** | **Result** | **Spike Amount** | **% Rec** | **Result** | **Spike Amount** | **% Rec** | **% Rec Limits** | **RPD** | **RPD Limit** |
| Perchlorate | 0.118 | 0.224 | 0.100 | 106 | 0.246 | 0.100 | 128 * | 84-119 | 9 | 15 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**Results flagged with a pound (#) indicate the control criteria is not applicable.**

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.**

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400716 |
| **Project:** | HS24061196 | **Date Collected:** | 6/18/24 1230 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | CO6_061824 | **Units:** | µg/L |
| **Lab Code:** | EQ2400345-05 | **Basis:** | NA |
| **Run Type:** | Matrix Spike | | |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | **0.224** | | 0.100 | 0.0500 | 0.0250 | 1 | 6/24/24 | 6/24/24 17:44 | 440573 | 845518 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400716 |
| **Project:** | HS24061196 | **Date Collected:** | 6/18/24 1230 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | CO6_061824 | **Units:** | µg/L |
| **Lab Code:** | EQ2400345-06 | **Basis:** | NA |
| **Run Type:** | Duplicate Matrix Spike | | |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | **0.246** | | 0.100 | 0.0500 | 0.0250 | 1 | 6/24/24 | 6/24/24 17:49 | 440573 | 845518 | |

# Initial Calibration

**ALS Environmental - Houston HRMS**
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

# Initial Calibration

**ALS Environmental - Houston HRMS**
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

**843806**

# Injection Log

LCMS01 -Shimadzu 8050

**1st Review: CG**
**2nd Review:**

**ICAL Date:** 6/11/2024
**Cal. Std. xp:** 8/13/2024
**ICAL ID:** EC2400009

**Mobile Phases : A:**20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
**LODV: 233573** **CCV:233565**

| | File Name | Sample Name | Acquisition Method | Dilution | Comments | Date/Time |
|---|---|---|---|---|---|---|
| 1 | 20240611-001 | IB | Perchlorate6850c.lcm | 1x | | 6/11/2024 15:40 |
| 2 | 20240611-002 | Perchlorate ICAL 1 | Perchlorate6850c.lcm | 1x | | 6/11/2024 15:46 |
| 3 | 20240611-003 | Perchlorate ICAL 2 | Perchlorate6850c.lcm | 1x | | 6/11/2024 15:52 |
| 4 | 20240611-004 | Perchlorate ICAL 3 | Perchlorate6850c.lcm | 1x | | 6/11/2024 15:57 |
| 5 | 20240611-005 | Perchlorate ICAL 4 | Perchlorate6850c.lcm | 1x | | 6/11/2024 16:03 |
| 6 | 20240611-006 | Perchlorate ICAL 5 | Perchlorate6850c.lcm | 1x | | 6/11/2024 16:08 |
| 7 | 20240611-007 | Perchlorate ICAL 6 | Perchlorate6850c.lcm | 1x | | 6/11/2024 16:14 |
| 8 | 20240611-008 | Perchlorate ICAL 7 | Perchlorate6850c.lcm | 1x | | 6/11/2024 16:19 |
| 9 | 20240611-009 | Perchlorate ICAL 8 | Perchlorate6850c.lcm | 1x | | 6/11/2024 16:25 |
| 10 | 20240611-010 | Perchlorate ICAL 9 | Perchlorate6850c.lcm | 1x | | 6/11/2024 16:30 |
| 11 | 20240611-011 | Perchlorate ICAL 10 | Perchlorate6850c.lcm | 1x | | 6/11/2024 16:36 |
| 12 | 20240611-012 | PerchlorateICV | Perchlorate6850c.lcm | 1x | | 6/11/2024 16:42 |
| 13 | 20240611-013 | IB | Perchlorate6850c.lcm | 1x | | 6/11/2024 16:47 |
| 14 | 20240611-014 | LODV | Perchlorate6850c.lcm | 1x | | 6/11/2024 16:53 |
| 15 | 20240611-015 | ICS | Perchlorate6850c.lcm | 1x | | 6/11/2024 16:58 |
| 16 | 20240611-016 | CCV | Perchlorate6850c.lcm | 1x | | 6/11/2024 17:04 |
| 17 | 20240611-017 | IB | Perchlorate6850c.lcm | 1x | | 6/11/2024 17:09 |
| 18 | 20240611-018 | EQ2400303-001 | Perchlorate6850c.lcm | 1x | | 6/11/2024 17:15 |
| 19 | 20240611-019 | EQ2400303-002 | Perchlorate6850c.lcm | 1x | | 6/11/2024 17:20 |
| 20 | 20240611-020 | EQ2400303-003 | Perchlorate6850c.lcm | 1x | | 6/11/2024 17:26 |
| 21 | 20240611-021 | EQ2400303-004 | Perchlorate6850c.lcm | 1x | | 6/11/2024 17:31 |
| 22 | 20240611-022 | EQ2400303-005 | Perchlorate6850c.lcm | 1x | | 6/11/2024 17:37 |
| 23 | 20240611-023 | E2400629-001 | Perchlorate6850c.lcm | 1x | | 6/11/2024 17:42 |
| 24 | 20240611-024 | E2400647-001 | Perchlorate6850c.lcm | 1x | | 6/11/2024 17:48 |
| 25 | 20240611-025 | E2400647-002 | Perchlorate6850c.lcm | 1x | | 6/11/2024 17:54 |
| 26 | 20240611-026 | E2400647-003 | Perchlorate6850c.lcm | 1x | | 6/11/2024 17:59 |
| 27 | 20240611-027 | E2400647-004 | Perchlorate6850c.lcm | 1x | | 6/11/2024 18:05 |
| 28 | 20240611-028 | CCV | Perchlorate6850c.lcm | 1x | | 6/11/2024 18:10 |
| 29 | 20240611-029 | IB | Perchlorate6850c.lcm | 1x | | 6/11/2024 18:16 |
| 30 | 20240611-030 | E2400647-005 | Perchlorate6850c.lcm | 1x | | 6/11/2024 18:21 |
| 31 | 20240611-031 | E2400647-006 | Perchlorate6850c.lcm | 1x | | 6/11/2024 18:27 |
| 32 | 20240611-032 | E2400650-001 | Perchlorate6850c.lcm | 1x | DNU needs DL | 6/11/2024 18:32 |
| 33 | 20240611-033 | E2400650-002 | Perchlorate6850c.lcm | 1x | DNU needs DL | 6/11/2024 18:38 |
| 34 | 20240611-034 | E2400650-003 | Perchlorate6850c.lcm | 1x | DNU needs DL | 6/11/2024 18:43 |
| 35 | 20240611-035 | E2400650-004 | Perchlorate6850c.lcm | 1x | DNU RI possible C/O | 6/11/2024 18:49 |
| 36 | 20240611-036 | E2400650-005 | Perchlorate6850c.lcm | 1x | DNU RI possible C/O | 6/11/2024 18:54 |
| 37 | 20240611-037 | E2400650-006 | Perchlorate6850c.lcm | 1x | | 6/11/2024 19:00 |
| 38 | 20240611-038 | CCV | Perchlorate6850c.lcm | 1x | | 6/11/2024 19:06 |
| 39 | 20240611-039 | IB | Perchlorate6850c.lcm | 1x | | 6/11/2024 19:11 |
| 40 | | | Perchlorate6850c.lcm | 1x | | |

**843806**

# Injection Log

LCMS01 -Shimadzu 8050

**1st Review: CG**
**2nd Review:**

**ICAL Date:** 6/11/2024
**Cal. Std. xp:** 8/13/2024
**ICAL ID:** EC2400009

**Mobile Phases : A:**20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
**LODV: 233573** **CCV:233565**

| | File Name | Sample Name | Acquisition Method | Dilution | Comments | Date/Time |
|---|---|---|---|---|---|---|
| 41 | | | Perchlorate6850c.lcm | 1x | | |
| 42 | | | Perchlorate6850c.lcm | 1x | | |
| 43 | | | Perchlorate6850c.lcm | 1x | | |
| 44 | | | Perchlorate6850c.lcm | 1x | | |
| 45 | | | Perchlorate6850c.lcm | 1x | | |
| 46 | | | Perchlorate6850c.lcm | 1x | | |
| 47 | | | Perchlorate6850c.lcm | 1x | | |

# *Initial Calibration - Detailed Report*

**Calibration ID:** EC2400009 **Instrument ID:** E-LCMS-01
**Column Name:** 1

| # | Lab Code | Sample Name | File Location | Aquisition Date |
|---|---|---|---|---|
| 01 | EC2400009-01 | Perchlorate ICAL 1 | 20240611-002 | 06/11/2024 15:46 |
| 02 | EC2400009-02 | Perchlorate ICAL 2 | 20240611-003 | 06/11/2024 15:52 |
| 03 | EC2400009-03 | Perchlorate ICAL 3 | 20240611-004 | 06/11/2024 15:57 |
| 04 | EC2400009-04 | Perchlorate ICAL 4 | 20240611-005 | 06/11/2024 16:03 |
| 05 | EC2400009-05 | Perchlorate ICAL 5 | 20240611-006 | 06/11/2024 16:08 |
| 06 | EC2400009-06 | Perchlorate ICAL 6 | 20240611-007 | 06/11/2024 16:14 |
| 07 | EC2400009-07 | Perchlorate ICAL 7 | 20240611-008 | 06/11/2024 16:19 |
| 08 | EC2400009-08 | Perchlorate ICAL 8 | 20240611-009 | 06/11/2024 16:25 |
| 09 | EC2400009-09 | Perchlorate ICAL 9 | 20240611-010 | 06/11/2024 16:30 |
| 10 | EC2400009-10 | Perchlorate ICAL 10 | 20240611-011 | 06/11/2024 16:36 |

**Analyte** **Curve Fit** **Weighting**

**Perchlorate** **Average RF** **RSD = 5.222** **Average RF = 0.146**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.1000 | 0.1359 | 02 | 0.5000 | 0.1389 | 03 | 0.7000 | 0.1344 | 04 | 1.0000 | 0.1446 |
| 05 | 2.0000 | 0.1447 | 06 | 5.0000 | 0.1567 | 07 | 10.0000 | 0.1526 | 08 | 20.0000 | 0.1528 |
| 09 | 30.0000 | 0.1488 | 10 | 50.0000 | 0.1506 | | | | | | |

**Analyte**

**Perchlorate** RSE = 5.22

| # | Amount | Calculated Conc | %D | # | Amount | Calculated Conc | %D | # | Amount | Calculated Conc | %D |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.1000 | 0.0931 | -6.9 | 02 | 0.5000 | 0.476 | -4.9 | 03 | 0.7000 | 0.644 | -7.9 |
| 04 | 1.0000 | 0.990 | -1.0 | 05 | 2.0000 | 1.98 | -0.9 | 06 | 5.0000 | 5.37 | 7.3 |
| 07 | 10.0000 | 10.5 | 4.5 | 08 | 20.0000 | 20.9 | 4.7 | 09 | 30.0000 | 30.6 | 1.9 |
| 10 | 50.0000 | 51.6 | 3.1 | | | | | | | | |

# *Initial Calibration Verification Summary Report*

| | | | |
|---|---|---|---|
| **Calibration ID:** | EC2400009 | **Instrument ID:** | E-LCMS-01 |
| **Datafile ID:** | 20240611-012 | **Column Name:** | 1 |

| Analyte | Lab Code | Type | Curve Fit | True Value | Calc Conc | Units | Result | Criteria |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | EC2400009-11 | T | Average RF | 10 | 10.282 | ng/mL | 2.8 | <= 15 |

# Insight Report

Printed at 6/12/2024 8:45:04 AM

Method File: I:\LCMS01\DATA\20240611\202405611_ICAL.lcm
Project File: I:\LCMS01\DATA\20240611\20240611_ICAL.damlp

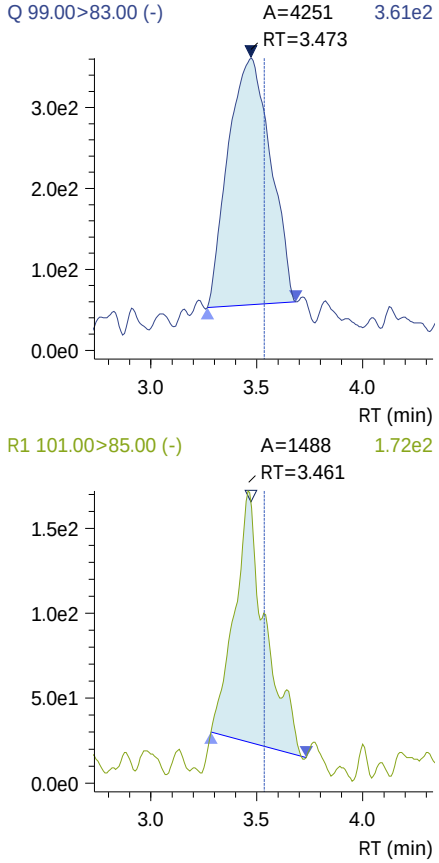
## Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 6/11/2024 3:46:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.473 | 4251 | 312768 | 0.0931 | ng/mL | 101.00<br>>85.00 | 35.01 | 23.50<br>-43.64 |
| Sodium Perchlorate -18O4_IS | Auto | 3.453 | 312768 | 312768 | 1.0000 | ng/mL | ---- | ---- | |

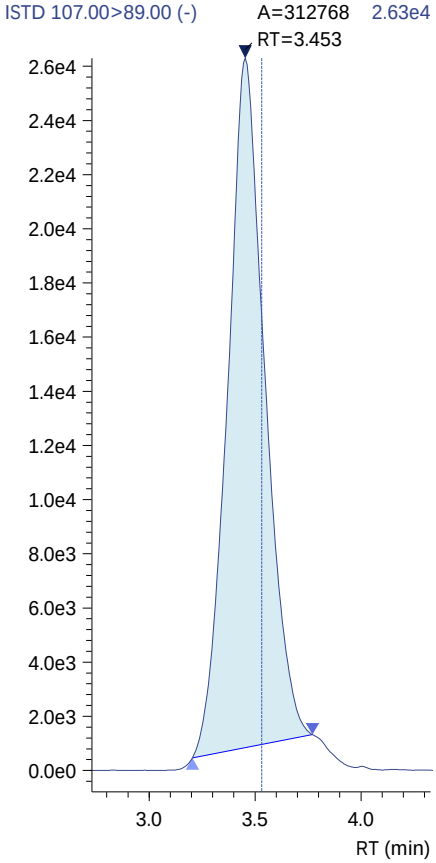
### Perchlorate

Conc 0.0931
R#1 35.01 (34.10)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/12/2024 8:45:04 AM

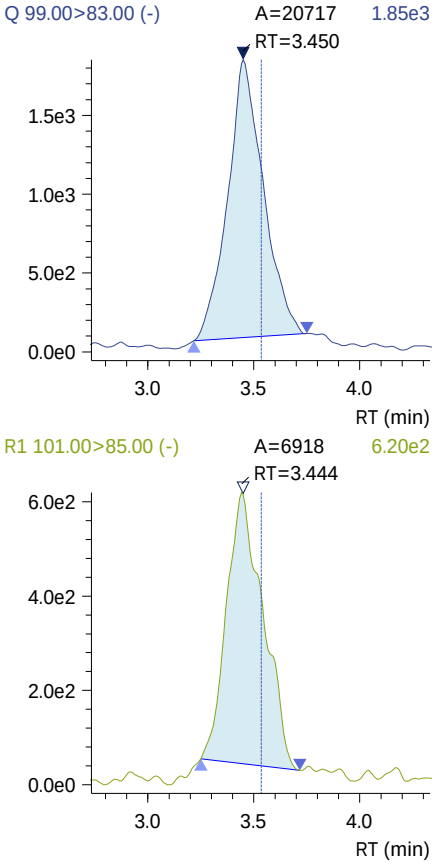
## Perchlorate ICAL 2

Sample ID: Perchlorate ICAL 2
Date Acquired: 6/11/2024 3:52:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.450 | 20717 | 298266 | 0.4757 | ng/mL | 101.00<br>>85.00 | 33.39 | 23.50<br>-43.64 |
| Sodium Perchlorate -18O4_IS | Auto | 3.455 | 298266 | 298266 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

Conc 0.4757
R#1 33.39 (34.10)

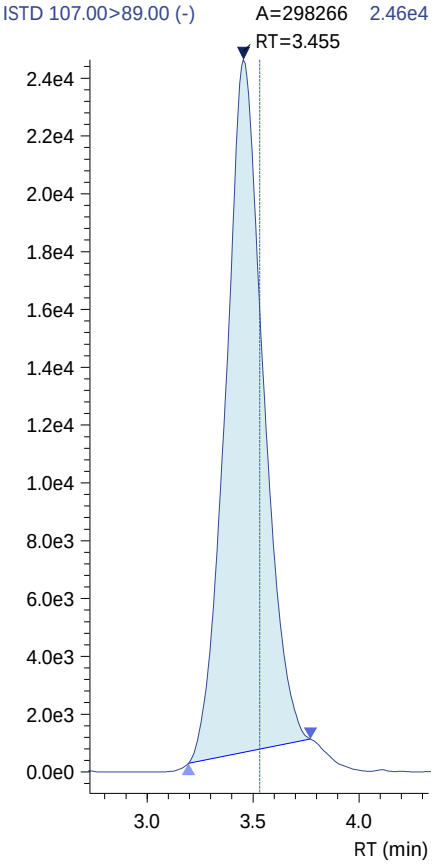






### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/12/2024 8:45:04 AM

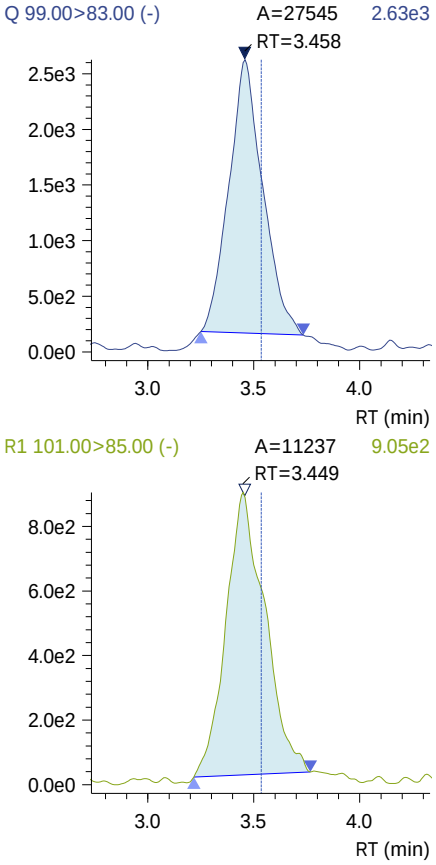
## Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 6/11/2024 3:57:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.458 | 27545 | 292777 | 0.6444 | ng/mL | 101.00<br>>85.00 | 40.79 | 23.50<br>-43.64 |
| Sodium Perchlorate -18O4_IS | Auto | 3.459 | 292777 | 292777 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

Conc 0.6444
R#1 40.79 (34.10)

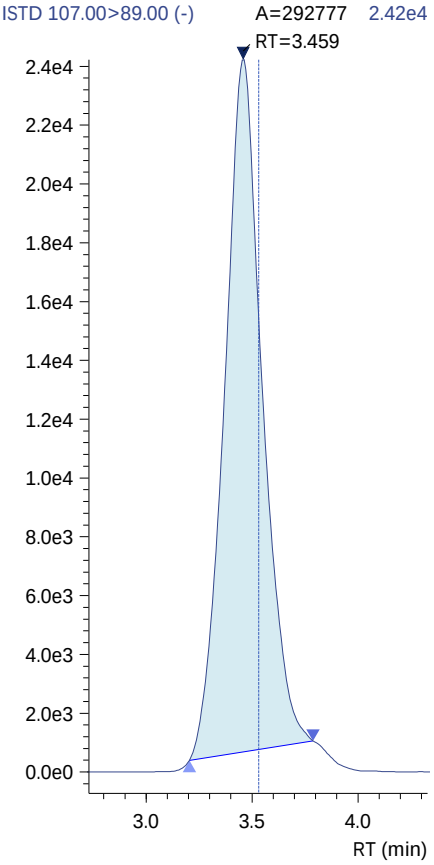






### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/12/2024 8:45:04 AM

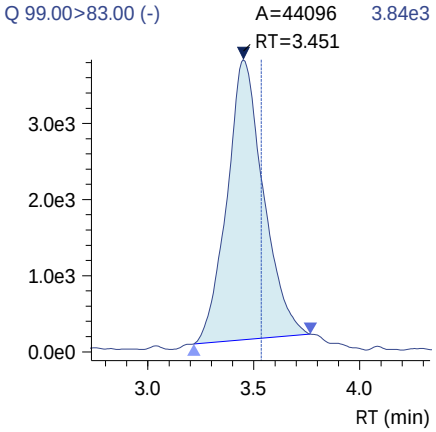
## Perchlorate ICAL 4

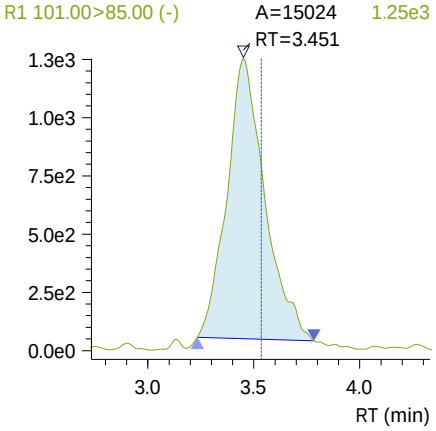
Sample ID: Perchlorate ICAL 4
Date Acquired: 6/11/2024 4:03:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.451 | 44096 | 304940 | 0.9904 | ng/mL | 101.00<br>>85.00 | 34.07 | 23.50<br>-43.64 |
| Sodium Perchlorate -18O4_IS | Auto | 3.454 | 304940 | 304940 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

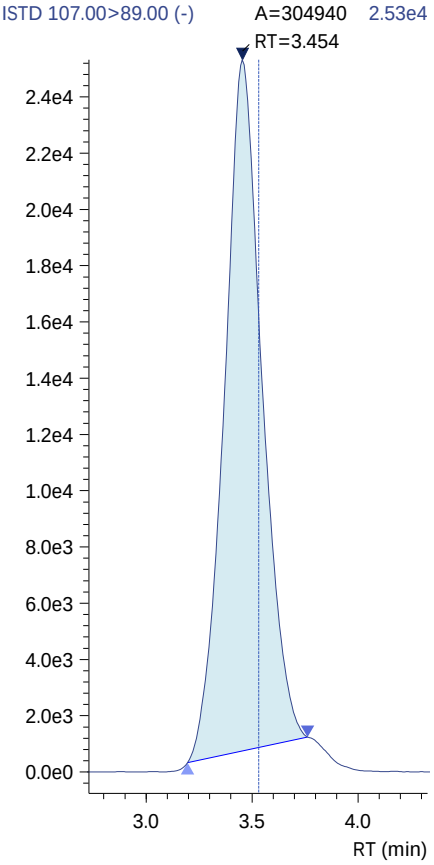
Conc 0.9904
R#1 34.07 (34.10)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/12/2024 8:45:04 AM

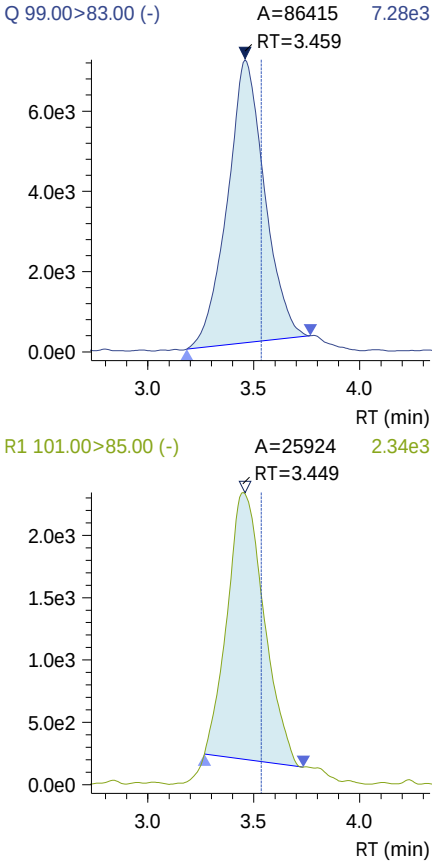
## Perchlorate ICAL 5

Sample ID: Perchlorate ICAL 5
Date Acquired: 6/11/2024 4:08:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.459 | 86415 | 298543 | 1.9825 | ng/mL | 101.00<br>>85.00 | 30.00 | 23.50<br>-43.64 |
| Sodium Perchlorate -18O4_IS | Auto | 3.454 | 298543 | 298543 | 1.0000 | ng/mL | ---- | ---- | |

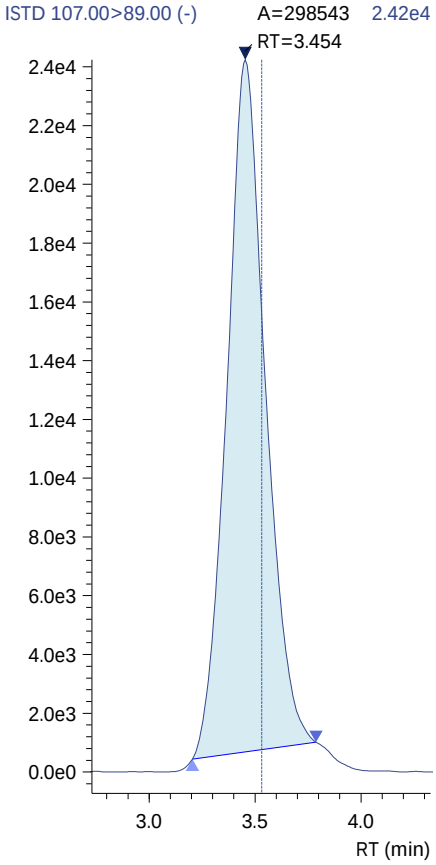
### Perchlorate

Conc 1.9825
R#1 30.00 (34.10)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/12/2024 8:45:04 AM

## Perchlorate ICAL 6

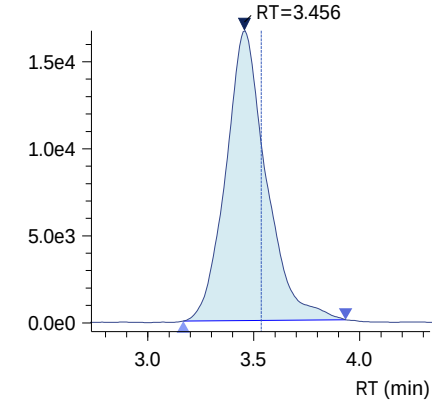
Sample ID: Perchlorate ICAL 6
Date Acquired: 6/11/2024 4:14:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.456 | 221568 | 282809 | 5.3659 | ng/mL | 101.00<br>>85.00 | 32.17 | 23.50<br>-43.64 |
| Sodium Perchlorate -18O4_IS | Auto | 3.453 | 282809 | 282809 | 1.0000 | ng/mL | ---- | ---- | |

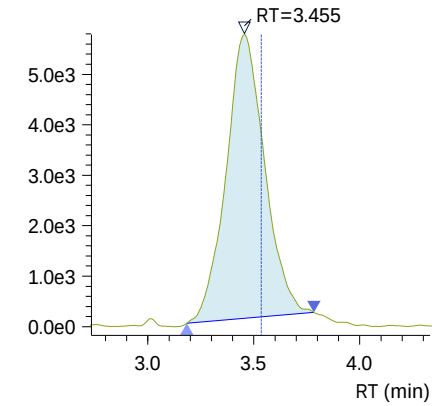
### Perchlorate

Conc 5.3659
R#1 32.17 (34.10)

Q 99.00>83.00 (-) A=221568 1.68e4
RT=3.456



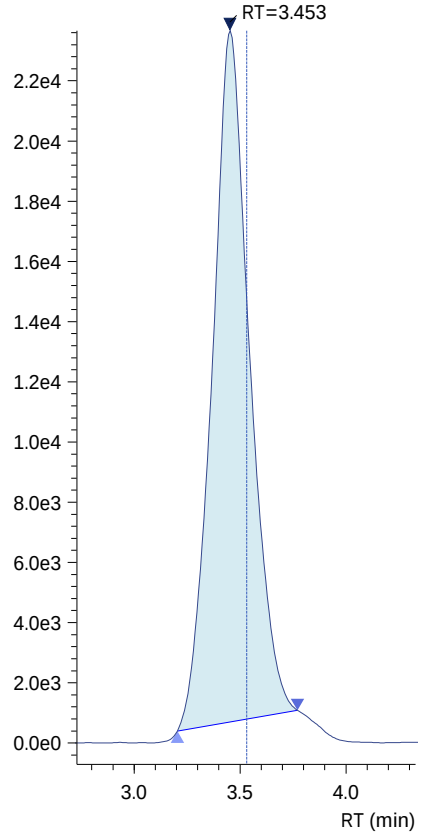

R1 101.00>85.00 (-) A=71270 5.79e3
RT=3.455




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=282809 2.37e4
RT=3.453



# Insight Report

Printed at 6/12/2024 8:45:04 AM

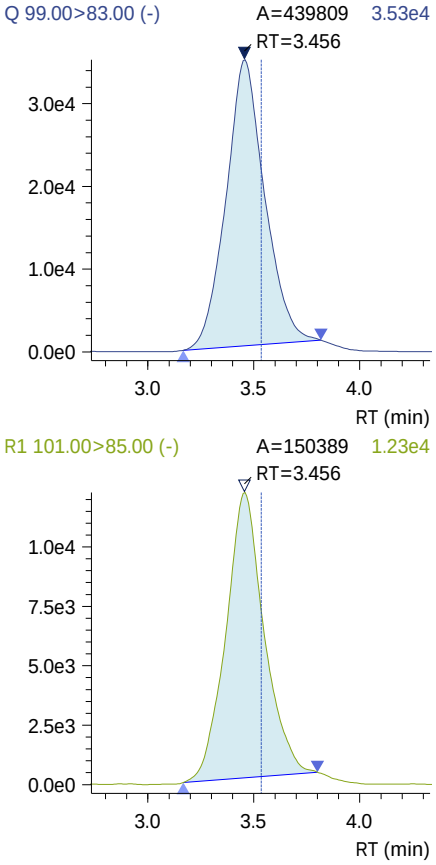
## Perchlorate ICAL 7

Sample ID: Perchlorate ICAL 7
Date Acquired: 6/11/2024 4:19:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.456 | 439809 | 288244 | 10.4<br>505 | ng/mL | 101.00<br>>85.00 | 34.19 | 23.50<br>-43.64 |
| Sodium Perchlorate -18O4_IS | Auto | 3.455 | 288244 | 288244 | 1.0000 | ng/mL | ---- | ---- | |

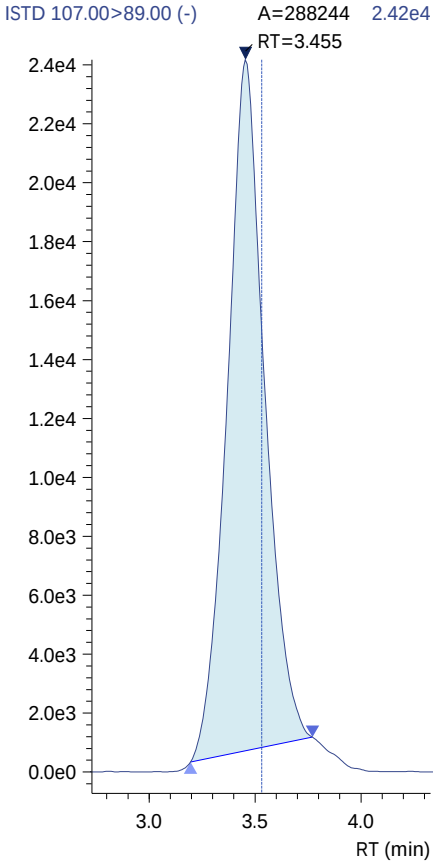
### Perchlorate

Conc 10.4505
R#1 34.19 (34.10)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/12/2024 8:45:04 AM

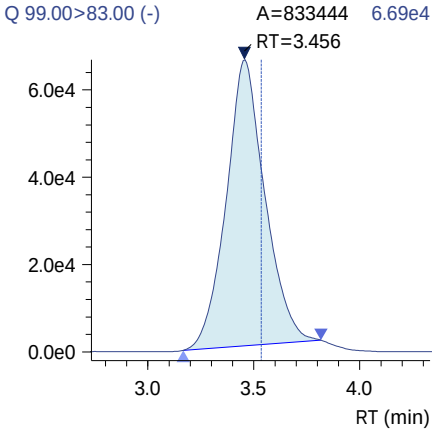
## Perchlorate ICAL 8

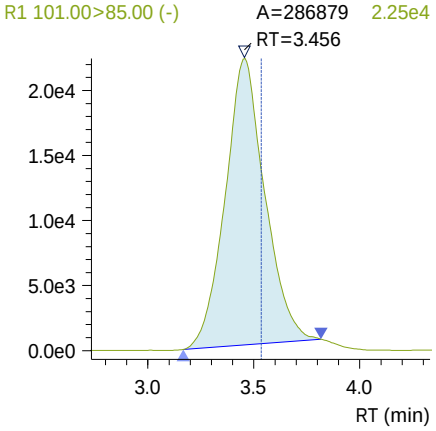
Sample ID: Perchlorate ICAL 8
Date Acquired: 6/11/2024 4:25:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.456 | 833444 | 272651 | 20.9<br>364 | ng/mL | 101.00<br>>85.00 | 34.42 | 23.50<br>-43.64 |
| Sodium Perchlorate -18O4_IS | Auto | 3.455 | 272651 | 272651 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

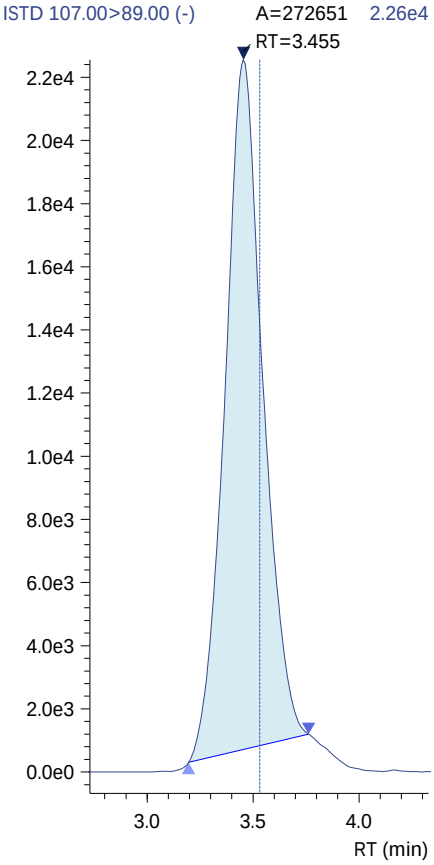
Conc 20.9364
R#1 34.42 (34.10)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/12/2024 8:45:04 AM

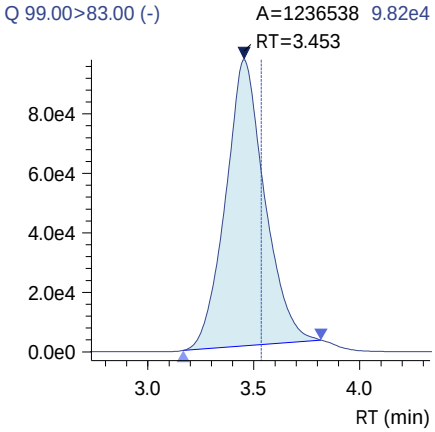
## Perchlorate ICAL 9

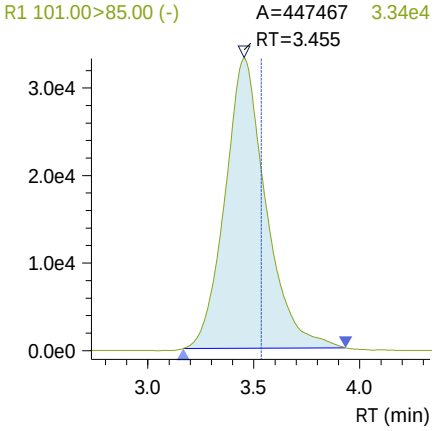
Sample ID: Perchlorate ICAL 9
Date Acquired: 6/11/2024 4:30:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.453 | 12365<br>38 | 276997 | 30.5<br>749 | ng/mL | 101.00<br>>85.00 | 36.19 | 23.50<br>-43.64 |
| Sodium Perchlorate -18O4_IS | Auto | 3.452 | 276997 | 276997 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

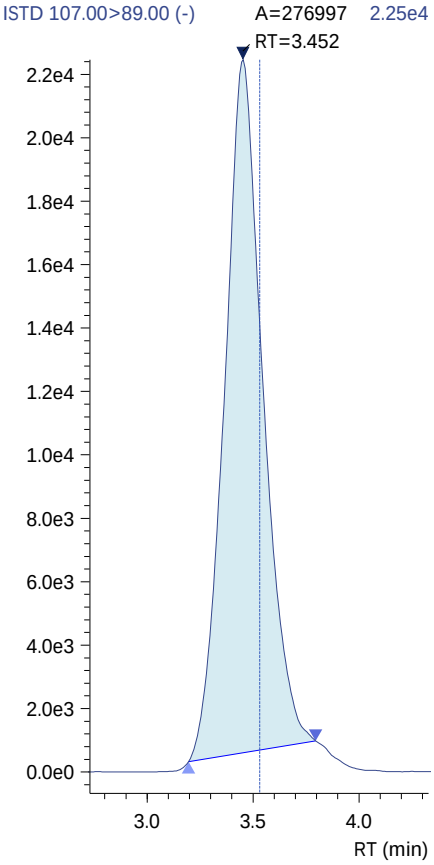
Conc 30.5749
R#1 36.19 (34.10)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/12/2024 8:45:04 AM

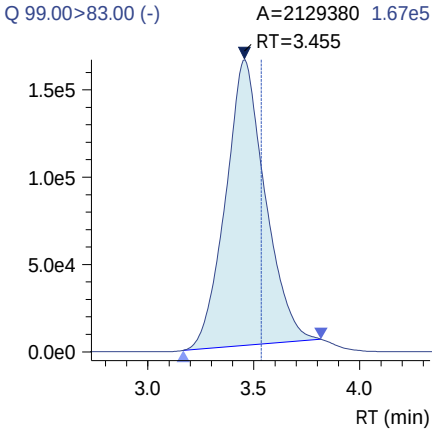
## Perchlorate ICAL 10

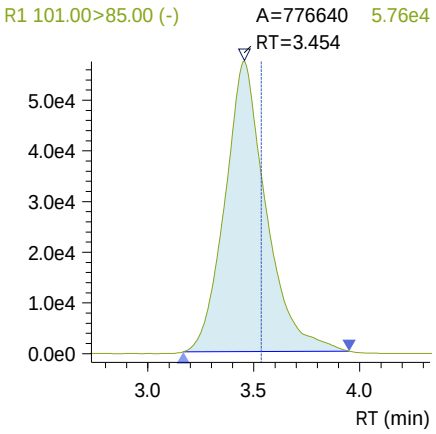
Sample ID: Perchlorate ICAL 10
Date Acquired: 6/11/2024 4:36:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.455 | 21293<br>80 | 282834 | 51.5<br>649 | ng/mL | 101.00<br>>85.00 | 36.47 | 23.50<br>-43.64 |
| Sodium Perchlorate -18O4_IS | Auto | 3.453 | 282834 | 282834 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

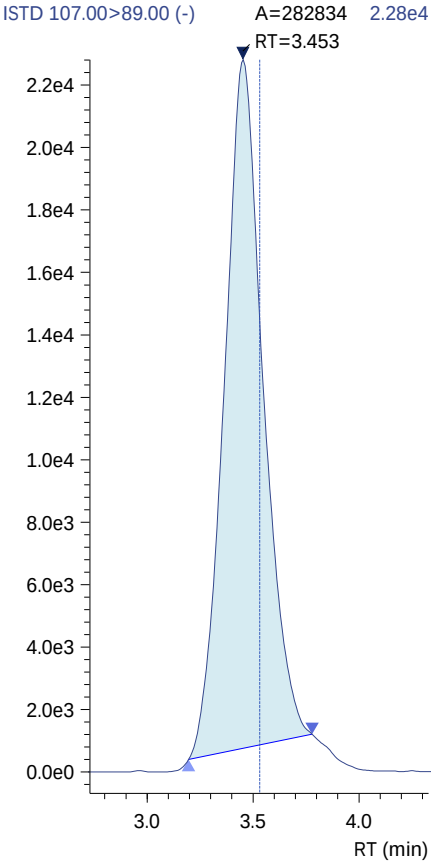
Conc 51.5649
R#1 36.47 (34.10)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/12/2024 8:45:04 AM

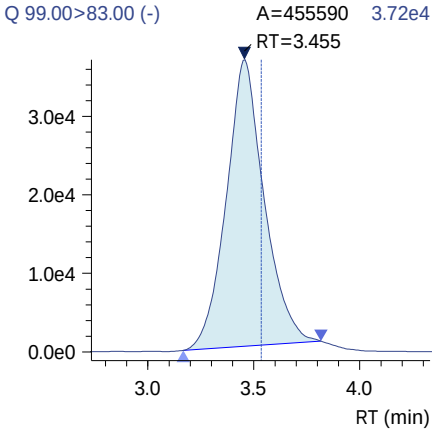
## PerchlorateICV

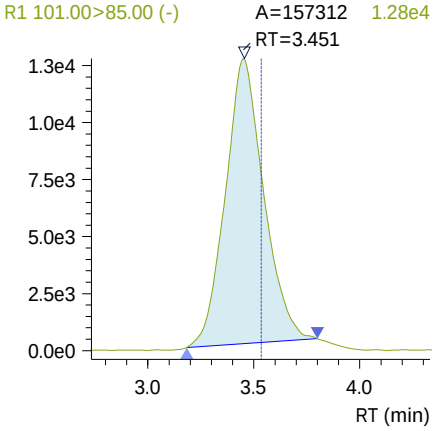
Sample ID: PerchlorateICV
Date Acquired: 6/11/2024 4:42:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.455 | 455590 | 303470 | 10.2<br>823 | ng/mL | 101.00<br>>85.00 | 34.53 | 23.50<br>-43.64 |
| Sodium Perchlorate -18O4_IS | Auto | 3.454 | 303470 | 303470 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

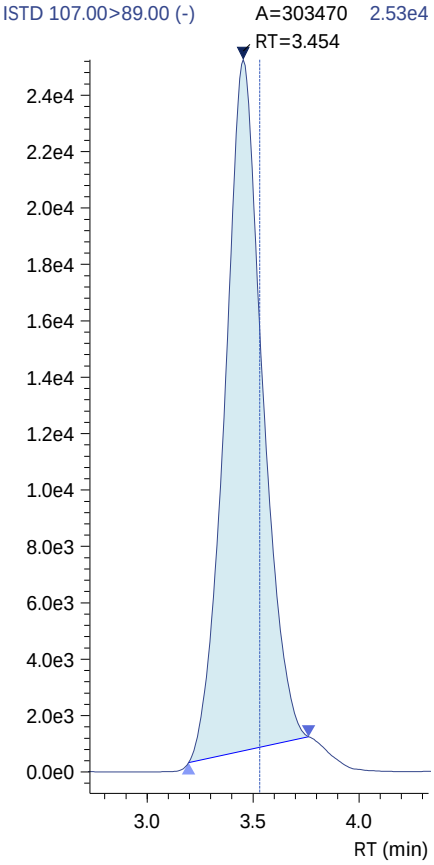
Conc 10.2823
R#1 34.53 (34.10)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Chromatograms and Selected Ion Monitoring

**ALS Environmental - Houston HRMS**
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

**843893**

# Injection Log

LCMS01 -Shimadzu 8050

**1st Review: JLJ**
**2nd Review:**

**ICAL Date:** 6/11/2024
**Cal. Std. xp:** 8/13/2024
**ICAL ID:** EC2400009

**Mobile Phases : A:**20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
**LODV: 233573** **CCV:233565**

| | File Name | Sample Name | Acquisition Method | Dilution | Comments | Date/Time |
|---|---|---|---|---|---|---|
| 1 | 20240624-001 | IB | Perchlorate6850c.lcm | 1x | | 6/24/2024 8:53 |
| 2 | 20240624-002 | IB | Perchlorate6850c.lcm | 1x | | 6/24/2024 8:58 |
| 3 | 20240624-003 | IB | Perchlorate6850c.lcm | 1x | | 6/24/2024 9:04 |
| 4 | 20240624-004 | LODV | Perchlorate6850c.lcm | 1x | | 6/24/2024 9:09 |
| 5 | 20240624-005 | ICS | Perchlorate6850c.lcm | 1x | DNU | 6/24/2024 9:15 |
| 6 | 20240624-006 | CCV | Perchlorate6850c.lcm | 1x | | 6/24/2024 9:20 |
| 7 | 20240624-007 | IB | Perchlorate6850c.lcm | 1x | | 6/24/2024 10:20 |
| 8 | 20240624-008 | EQ2400343-001MB | Perchlorate6850c.lcm | 1x | DNU | 6/24/2024 10:25 |
| 9 | 20240624-009 | EQ2400343-02LCS | Perchlorate6850c.lcm | 1x | DNU | 6/24/2024 10:31 |
| 10 | 20240624-010 | EQ2400343-03DLCS | Perchlorate6850c.lcm | 1x | DNU | 6/24/2024 10:36 |
| 11 | 20240624-011 | EQ2400343-04ICS | Perchlorate6850c.lcm | 1x | DNU | 6/24/2024 10:42 |
| 12 | 20240624-012 | E2400685-001X10 | Perchlorate6850c.lcm | 10x | | 6/24/2024 10:47 |
| 13 | 20240624-013 | E2400685-006X100 | Perchlorate6850c.lcm | 100x | | 6/24/2024 10:53 |
| 14 | 20240624-014 | E2400685-007X500 | Perchlorate6850c.lcm | 500x | | 6/24/2024 10:59 |
| 15 | 20240624-015 | E2400691-003X100 | Perchlorate6850c.lcm | 100x | | 6/24/2024 11:04 |
| 16 | 20240624-016 | E2400691-004X10 | Perchlorate6850c.lcm | 10x | | 6/24/2024 11:10 |
| 17 | 20240624-017 | CCV | Perchlorate6850c.lcm | 1x | | 6/24/2024 11:15 |
| 18 | 20240624-018 | IB | Perchlorate6850c.lcm | 1x | | 6/24/2024 11:21 |
| 19 | 20240624-019 | EQ2400343-004MB | Perchlorate6850c.lcm | 1x | | 6/24/2024 13:40 |
| 20 | 20240624-020 | EQ2400343-02LCS | Perchlorate6850c.lcm | 1x | | 6/24/2024 13:46 |
| 21 | 20240624-021 | EQ2400343-03DLCS | Perchlorate6850c.lcm | 1x | | 6/24/2024 13:57 |
| 22 | 20240624-022 | EQ2400343-05ICS | Perchlorate6850c.lcm | 1x | | 6/24/2024 14:03 |
| 23 | 20240624-023 | EQ2400345-001MB | Perchlorate6850c.lcm | 1x | | 6/24/2024 14:08 |
| 24 | 20240624-024 | EQ2400345-02LCS | Perchlorate6850c.lcm | 1x | | 6/24/2024 14:14 |
| 25 | 20240624-025 | EQ2400345-03DLCS | Perchlorate6850c.lcm | 1x | | 6/24/2024 14:19 |
| 26 | 20240624-026 | EQ2400345-04ICS | Perchlorate6850c.lcm | 1x | | 6/24/2024 14:25 |
| 27 | 20240624-027 | E2400710-001 | Perchlorate6850c.lcm | 1x | | 6/24/2024 14:30 |
| 28 | 20240624-028 | E2400696-001 | Perchlorate6850c.lcm | 1x | DNU | 6/24/2024 14:36 |
| 29 | 20240624-029 | CCV | Perchlorate6850c.lcm | 1x | | 6/24/2024 14:41 |
| 30 | 20240624-030 | IB | Perchlorate6850c.lcm | 1x | | 6/24/2024 14:47 |
| 31 | 20240624-031 | E2400696-002 | Perchlorate6850c.lcm | 1x | DNU | 6/24/2024 14:52 |
| 32 | 20240624-032 | E2400696-003 | Perchlorate6850c.lcm | 1x | | 6/24/2024 14:58 |
| 33 | 20240624-033 | E2400696-004 | Perchlorate6850c.lcm | 1x | DNU | 6/24/2024 15:03 |
| 34 | 20240624-034 | E2400696-005 | Perchlorate6850c.lcm | 1x | | 6/24/2024 15:09 |
| 35 | 20240624-035 | E2400696-006 | Perchlorate6850c.lcm | 1x | | 6/24/2024 15:14 |
| 36 | 20240624-036 | E2400696-007 | Perchlorate6850c.lcm | 1x | | 6/24/2024 15:20 |
| 37 | 20240624-037 | E2400696-008 | Perchlorate6850c.lcm | 1x | DNU | 6/24/2024 15:25 |
| 38 | 20240624-038 | E2400696-009 | Perchlorate6850c.lcm | 1x | DNU | 6/24/2024 15:31 |
| 39 | 20240624-039 | E2400696-010 | Perchlorate6850c.lcm | 1x | DNU | 6/24/2024 15:36 |
| 40 | 20240624-040 | E2400715-001 | Perchlorate6850c.lcm | 1x | DNU | 6/24/2024 15:42 |
| 41 | 20240624-041 | CCV | Perchlorate6850c.lcm | 1x | | 6/24/2024 15:47 |

**843893**

# Injection Log

LCMS01 -Shimadzu 8050

**1st Review: JLJ**
**2nd Review:**

**ICAL Date:** 6/11/2024
**Cal. Std. xp:** 8/13/2024
**ICAL ID:** EC2400009

**Mobile Phases : A:**20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
**LODV: 233573** **CCV:233565**

| | File Name | Sample Name | Acquisition Method | Dilution | Comments | Date/Time |
|---|---|---|---|---|---|---|
| 42 | 20240624-042 | IB | Perchlorate6850c.lcm | 1x | | 6/24/2024 15:53 |
| 43 | 20240624-043 | E2400715-002 | Perchlorate6850c.lcm | 1x | DNU | 6/24/2024 15:59 |
| 44 | 20240624-044 | E2400715-003 | Perchlorate6850c.lcm | 1x | | 6/24/2024 16:04 |
| 45 | 20240624-045 | E2400715-004 | Perchlorate6850c.lcm | 1x | DNU | 6/24/2024 16:10 |
| 46 | 20240624-046 | E2400715-005 | Perchlorate6850c.lcm | 1x | DNU | 6/24/2024 16:15 |
| 47 | 20240624-047 | E2400715-006 | Perchlorate6850c.lcm | 1x | | 6/24/2024 16:21 |
| 48 | 20240624-048 | E2400715-007 | Perchlorate6850c.lcm | 1x | DNU | 6/24/2024 16:26 |
| 49 | 20240624-049 | E2400715-008 | Perchlorate6850c.lcm | 1x | | 6/24/2024 16:32 |
| 50 | 20240624-050 | E2400716-001 | Perchlorate6850c.lcm | 1x | DNU | 6/24/2024 16:37 |
| 51 | 20240624-051 | E2400716-002 | Perchlorate6850c.lcm | 1x | | 6/24/2024 16:43 |
| 52 | 20240624-052 | E2400716-003 | Perchlorate6850c.lcm | 1x | DNU | 6/24/2024 16:48 |
| 53 | 20240624-053 | CCV | Perchlorate6850c.lcm | 1x | | 6/24/2024 16:54 |
| 54 | 20240624-054 | IB | Perchlorate6850c.lcm | 1x | | 6/24/2024 16:59 |
| 55 | 20240624-055 | E2400716-004 | Perchlorate6850c.lcm | 1x | DNU | 6/24/2024 17:05 |
| 56 | 20240624-056 | E2400716-005 | Perchlorate6850c.lcm | 1x | | 6/24/2024 17:11 |
| 57 | 20240624-057 | E2400716-006 | Perchlorate6850c.lcm | 1x | | 6/24/2024 17:16 |
| 58 | 20240624-058 | E2400716-007 | Perchlorate6850c.lcm | 1x | | 6/24/2024 17:22 |
| 59 | 20240624-059 | E2400716-008 | Perchlorate6850c.lcm | 1x | | 6/24/2024 17:27 |
| 60 | 20240624-060 | E2400716-009 | Perchlorate6850c.lcm | 1x | | 6/24/2024 17:33 |
| 61 | 20240624-061 | E2400716-010 | Perchlorate6850c.lcm | 1x | | 6/24/2024 17:38 |
| 62 | 20240624-062 | EQ2400345-05MS | Perchlorate6850c.lcm | 1x | | 6/24/2024 17:44 |
| 63 | 20240624-063 | EQ2400345-06DMS | Perchlorate6850c.lcm | 1x | | 6/24/2024 17:49 |
| 64 | 20240624-064 | E2400721-001 | Perchlorate6850c.lcm | 1x | | 6/24/2024 17:55 |
| 65 | 20240624-065 | CCV | Perchlorate6850c.lcm | 1x | | 6/24/2024 18:00 |
| 66 | 20240624-066 | IB | Perchlorate6850c.lcm | 1x | | 6/24/2024 18:06 |
| 67 | 20240624-067 | E2400721-002 | Perchlorate6850c.lcm | 1x | | 6/24/2024 18:11 |
| 68 | 20240624-068 | E2400721-003 | Perchlorate6850c.lcm | 1x | | 6/24/2024 18:17 |
| 69 | 20240624-069 | CCV | Perchlorate6850c.lcm | 1x | | 6/24/2024 18:22 |
| 70 | 20240624-070 | IB | Perchlorate6850c.lcm | 1x | | 6/24/2024 18:28 |

**843893**

# Injection Log

LCMS01 -Shimadzu 8050

**1st Review: JLJ**
**2nd Review:**

**ICAL Date:** 6/11/2024
**Cal. Std. xp:** 8/13/2024
**ICAL ID:** EC2400009

**Mobile Phases : A:**20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
**LODV: 233573** **CCV:233565**

| | File Name | Sample Name | Acquisition Method | Dilution | Comments | Date/Time |
|---|---|---|---|---|---|---|
| 1 | 20240625-001 | IB | Perchlorate6850c.lcm | 1x | | 6/25/2024 13:21 |
| 2 | 20240625-002 | LODV | Perchlorate6850c.lcm | 1x | | 6/25/2024 13:27 |
| 3 | 20240625-003 | ICS | Perchlorate6850c.lcm | 1x | DNU | 6/25/2024 13:33 |
| 4 | 20240625-004 | IB | Perchlorate6850c.lcm | 1x | | 6/25/2024 13:38 |
| 5 | 20240625-005 | CCV | Perchlorate6850c.lcm | 1x | | 6/25/2024 13:44 |
| 6 | 20240625-006 | IB | Perchlorate6850c.lcm | 1x | | 6/25/2024 13:49 |
| 7 | 20240625-007 | E2400696-001X100 | Perchlorate6850c.lcm | 100x | | 6/25/2024 13:55 |
| 8 | 20240625-008 | E2400696-002X100 | Perchlorate6850c.lcm | 100x | | 6/25/2024 14:00 |
| 9 | 20240625-009 | E2400696-004X100 | Perchlorate6850c.lcm | 100x | | 6/25/2024 14:06 |
| 10 | 20240625-010 | E2400696-008X100 | Perchlorate6850c.lcm | 100x | | 6/25/2024 14:11 |
| 11 | 20240625-011 | E2400696-009X10 | Perchlorate6850c.lcm | 10x | | 6/25/2024 14:17 |
| 12 | 20240625-012 | E2400696-010X10 | Perchlorate6850c.lcm | 10x | | 6/25/2024 14:22 |
| 13 | 20240625-013 | E2400715-001X10000 | Perchlorate6850c.lcm | 10000x | | 6/25/2024 14:28 |
| 14 | 20240625-014 | E2400715-002X10 | Perchlorate6850c.lcm | 10x | | 6/25/2024 14:33 |
| 15 | 20240625-015 | E2400715-004X10 | Perchlorate6850c.lcm | 10x | | 6/25/2024 14:39 |
| 16 | 20240625-016 | E2400715-005X10 | Perchlorate6850c.lcm | 10x | | 6/25/2024 14:45 |
| 17 | 20240625-017 | CCV | Perchlorate6850c.lcm | 1x | | 6/25/2024 14:50 |
| 18 | 20240625-018 | IB | Perchlorate6850c.lcm | 1x | | 6/25/2024 14:56 |
| 19 | 20240625-019 | E2400715-007X10 | Perchlorate6850c.lcm | 10x | | 6/25/2024 15:01 |
| 20 | 20240625-020 | E2400716-001x1000 | Perchlorate6850c.lcm | 1000x | | 6/25/2024 15:07 |
| 21 | 20240625-021 | E2400716-003x10 | Perchlorate6850c.lcm | 10x | | 6/25/2024 15:12 |
| 22 | 20240625-022 | E2400716-004x10 | Perchlorate6850c.lcm | 10x | | 6/25/2024 15:18 |
| 23 | 20240625-023 | EQ2400350-01MB | Perchlorate6850c.lcm | 1x | | 6/25/2024 15:23 |
| 24 | 20240625-024 | EQ2400350-02LCS | Perchlorate6850c.lcm | 1x | | 6/25/2024 15:29 |
| 25 | 20240625-025 | EQ2400350-03DLCS | Perchlorate6850c.lcm | 1x | | 6/25/2024 15:34 |
| 26 | 20240625-026 | EQ2400350-04ICS | Perchlorate6850c.lcm | 1x | | 6/25/2024 15:40 |
| 27 | 20240625-027 | CCV | Perchlorate6850c.lcm | 1x | | 6/25/2024 15:46 |
| 28 | 20240625-028 | IB | Perchlorate6850c.lcm | 1x | | 6/25/2024 15:51 |
| 29 | 20240625-029 | E2400703-002 | Perchlorate6850c.lcm | 1x | | 6/25/2024 15:57 |
| 30 | 20240625-030 | E2400703-003 | Perchlorate6850c.lcm | 1x | | 6/25/2024 16:02 |
| 31 | 20240625-031 | E2400703-001 | Perchlorate6850c.lcm | 1x | | 6/25/2024 16:08 |
| 32 | 20240625-032 | E2400350-05MS | Perchlorate6850c.lcm | 1x | DNU | 6/25/2024 16:13 |
| 33 | 20240625-033 | E2400350-06DMS | Perchlorate6850c.lcm | 1x | | 6/25/2024 16:19 |
| 34 | 20240625-034 | IB | Perchlorate6850c.lcm | 1x | | 6/25/2024 16:24 |
| 35 | 20240625-035 | IB | Perchlorate6850c.lcm | 1x | | 6/25/2024 16:30 |
| 36 | 20240625-036 | CCV | Perchlorate6850c.lcm | 1x | | 6/25/2024 16:35 |
| 37 | 20240625-037 | IB | Perchlorate6850c.lcm | 1x | | 6/25/2024 16:41 |

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS24061196

**Service Request:** E2400716
**Date Analyzed:** 6/24/24 11:15

## Internal Standard Area and RT Summary
## Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

**File ID:** I:\LCMS01\DATA\20240624\20240624-017
**Instrument ID:** E-LCMS-01
**Analytical Method:** 6850

**Lab Code:** EQ2400356-01
**Analysis Lot:** 845518
**Signal ID:** 1

| | | Sodium Perchlorate-18O4 | |
|---|---|---|---|
| | | **Area** | **RT** |
| | **ICAL Average ==>** | 291,083 | 3.45 |
| | **Upper Limit ==>** | 436,625 | 5.45 |
| | **Lower Limit ==>** | 145,542 | 1.45 |
| ***Associated Analyses*** | | | |
| Continuing Calibration Verification | EQ2400356-01 | 223,642 | 3.45 |
| Method Blank | EQ2400345-01 | 179,777 | 3.44 |
| Lab Control Sample | EQ2400345-02 | 180,762 | 3.44 |
| Duplicate Lab Control Sample | EQ2400345-03 | 182,423 | 3.44 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS24061196

**Service Request:** E2400716
**Date Analyzed:** 6/24/24 14:41

## Internal Standard Area and RT Summary
## Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

**File ID:** I:\LCMS01\DATA\20240624\20240624-029
**Instrument ID:** E-LCMS-01
**Analytical Method:** 6850

**Lab Code:** EQ2400356-02
**Analysis Lot:** 845518
**Signal ID:** 1

| | | Sodium Perchlorate-18O4 | |
|---|---|---|---|
| | | **Area** | **RT** |
| | **ICAL Average ==>** | 291,083 | 3.45 |
| | **Upper Limit ==>** | 436,625 | 5.45 |
| | **Lower Limit ==>** | 145,542 | 1.45 |
| ***Associated Analyses*** | | | |
| Continuing Calibration Verification | EQ2400356-02 | 169,981 | 3.44 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS24061196

**Service Request:** E2400716
**Date Analyzed:** 6/24/24 15:47

## Internal Standard Area and RT Summary
## Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

**File ID:** I:\LCMS01\DATA\20240624\20240624-041
**Instrument ID:** E-LCMS-01
**Analytical Method:** 6850

**Lab Code:** EQ2400356-03
**Analysis Lot:** 845518
**Signal ID:** 1

| | | Sodium Perchlorate-18O4 | |
|---|---|---|---|
| | | **Area** | **RT** |
| | **ICAL Average ==>** | 291,083 | 3.45 |
| | **Upper Limit ==>** | 436,625 | 5.45 |
| | **Lower Limit ==>** | 145,542 | 1.45 |
| ***Associated Analyses*** | | | |
| Continuing Calibration Verification | EQ2400356-03 | 160,199 | 3.44 |
| 18WW03_061824 | E2400716-002 | 178,331 | 3.44 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS24061196

**Service Request:** E2400716
**Date Analyzed:** 6/24/24 16:54

## Internal Standard Area and RT Summary
## Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

**File ID:** I:\LCMS01\DATA\20240624\20240624-053
**Instrument ID:** E-LCMS-01
**Analytical Method:** 6850

**Lab Code:** EQ2400356-04
**Analysis Lot:** 845518
**Signal ID:** 1

| | | Sodium Perchlorate-18O4 | |
|---|---|---|---|
| | | **Area** | **RT** |
| | **ICAL Average ==>** | 291,083 | 3.45 |
| | **Upper Limit ==>** | 436,625 | 5.45 |
| | **Lower Limit ==>** | 145,542 | 1.45 |
| ***Associated Analyses*** | | | |
| Continuing Calibration Verification | EQ2400356-04 | 158,767 | 3.44 |
| 18WW24_061824 | E2400716-005 | 161,458 | 3.44 |
| 18WW24_061824_a | E2400716-006 | 161,096 | 3.44 |
| CO2_061824 | E2400716-007 | 204,061 | 3.45 |
| MW13_061824 | E2400716-008 | 197,123 | 3.45 |
| MW13_061824_a | E2400716-009 | 192,595 | 3.45 |
| CO6_061824 | E2400716-010 | 189,056 | 3.44 |
| CO6_061824MS | EQ2400345-05 | 184,035 | 3.45 |
| CO6_061824DMS | EQ2400345-06 | 181,506 | 3.45 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS24061196

**Service Request:** E2400716
**Date Analyzed:** 6/24/24 18:00

## Internal Standard Area and RT Summary
## Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

**File ID:** I:\LCMS01\DATA\20240624\20240624-065
**Instrument ID:** E-LCMS-01
**Analytical Method:** 6850

**Lab Code:** EQ2400356-05
**Analysis Lot:** 845518
**Signal ID:** 1

| | | Sodium Perchlorate-18O4 | |
|---|---|---|---|
| | | **Area** | **RT** |
| | **ICAL Average ==>** | 291,083 | 3.45 |
| | **Upper Limit ==>** | 436,625 | 5.45 |
| | **Lower Limit ==>** | 145,542 | 1.45 |
| ***Associated Analyses*** | | | |
| Continuing Calibration Verification | EQ2400356-05 | 158,268 | 3.44 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS24061196

**Service Request:** E2400716
**Date Analyzed:** 6/25/24 14:50

## Internal Standard Area and RT Summary
## Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

**File ID:** I:\LCMS01\DATA\20240625\20240625-017
**Instrument ID:** E-LCMS-01
**Analytical Method:** 6850

**Lab Code:** EQ2400357-01
**Analysis Lot:** 845520
**Signal ID:** 1

| | | Sodium Perchlorate-18O4 | |
|---|---|---|---|
| | | **Area** | **RT** |
| | **ICAL Average ==>** | 291,083 | 3.45 |
| | **Upper Limit ==>** | 436,625 | 5.45 |
| | **Lower Limit ==>** | 145,542 | 1.45 |
| ***Associated Analyses*** | | | |
| Continuing Calibration Verification | EQ2400357-01 | 203,781 | 3.44 |
| 18PTMW14_061824 | E2400716-001 | 201,239 | 3.44 |
| CO8_061824 | E2400716-003 | 266,478 | 3.44 |
| 1824DPTMW04_061824 | E2400716-004 | 330,506 | 3.45 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS24061196

**Service Request:** E2400716
**Date Analyzed:** 6/25/24 15:46

## Internal Standard Area and RT Summary
## Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

**File ID:** I:\LCMS01\DATA\20240625\20240625-027
**Instrument ID:** E-LCMS-01
**Analytical Method:** 6850

**Lab Code:** EQ2400357-02
**Analysis Lot:** 845520
**Signal ID:** 1

| | | Sodium Perchlorate-18O4 | |
|---|---|---|---|
| | | **Area** | **RT** |
| | **ICAL Average ==>** | 291,083 | 3.45 |
| | **Upper Limit ==>** | 436,625 | 5.45 |
| | **Lower Limit ==>** | 145,542 | 1.45 |
| ***Associated Analyses*** | | | |
| Continuing Calibration Verification | EQ2400357-02 | 218,182 | 3.44 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS24061196

**Service Request:** E2400716
**Date Analyzed:** 6/24/24

## Continuing Calibration Verification Summary
## Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

**Analytical Method:** 6850
**File ID:** I:\LCMS01\DATA\20240624\20240624-017

**Calibration Date:** 6/11/24
**Calibration ID:** EC2400009
**Analysis Lot:** 845518
**Units:** ng/mL

| Analyte Name | Expected | Result | Average RF | CCV RF | %D | %Drift | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | 10.0 | 9.91 | 0.1460 | 0.1447 | -0.9 | NA | ± 15 % | Average RF |

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS24061196

**Service Request:** E2400716
**Date Analyzed:** 6/24/24

## Continuing Calibration Verification Summary
## Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

**Analytical Method:** 6850
**File ID:** I:\LCMS01\DATA\20240624\20240624-029

**Calibration Date:** 6/11/24
**Calibration ID:** EC2400009
**Analysis Lot:** 845518
**Units:** ng/mL

| Analyte Name | Expected | Result | Average RF | CCV RF | %D | %Drift | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | 10.0 | 9.27 | 0.1460 | 0.1353 | -7.3 | NA | ± 15 % | Average RF |

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS24061196

**Service Request:** E2400716
**Date Analyzed:** 6/24/24

## Continuing Calibration Verification Summary
## Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

**Analytical Method:** 6850
**File ID:** I:\LCMS01\DATA\20240624\20240624-041

**Calibration Date:** 6/11/24
**Calibration ID:** EC2400009
**Analysis Lot:** 845518
**Units:** ng/mL

| Analyte Name | Expected | Result | Average RF | CCV RF | %D | %Drift | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | 10.0 | 9.00 | 0.1460 | 0.1314 | -10.0 | NA | ± 15 % | Average RF |

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS24061196

**Service Request:** E2400716
**Date Analyzed:** 6/24/24

## Continuing Calibration Verification Summary
## Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

**Analytical Method:** 6850
**File ID:** I:\LCMS01\DATA\20240624\20240624-053

**Calibration Date:** 6/11/24
**Calibration ID:** EC2400009
**Analysis Lot:** 845518
**Units:** ng/mL

| Analyte Name | Expected | Result | Average RF | CCV RF | %D | %Drift | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | 10.0 | 9.51 | 0.1460 | 0.1389 | -4.9 | NA | ± 15 % | Average RF |

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS24061196

**Service Request:** E2400716
**Date Analyzed:** 6/24/24

## Continuing Calibration Verification Summary
## Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

**Analytical Method:** 6850
**File ID:** I:\LCMS01\DATA\20240624\20240624-065

**Calibration Date:** 6/11/24
**Calibration ID:** EC2400009
**Analysis Lot:** 845518
**Units:** ng/mL

| Analyte Name | Expected | Result | Average RF | CCV RF | %D | %Drift | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | 10.0 | 8.88 | 0.1460 | 0.1296 | -11.2 | NA | ± 15 % | Average RF |

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS24061196

**Service Request:** E2400716
**Date Analyzed:** 6/25/24

## Continuing Calibration Verification Summary
## Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

**Analytical Method:** 6850
**File ID:** I:\LCMS01\DATA\20240625\20240625-017

**Calibration Date:** 6/11/24
**Calibration ID:** EC2400009
**Analysis Lot:** 845520
**Units:** ng/mL

| Analyte Name | Expected | Result | Average RF | CCV RF | %D | %Drift | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | 10.0 | 10.1 | 0.1460 | 0.1480 | 1.3 | NA | ± 15 % | Average RF |

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS24061196

**Service Request:** E2400716
**Date Analyzed:** 6/25/24

## Continuing Calibration Verification Summary
## Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

**Analytical Method:** 6850
**File ID:** I:\LCMS01\DATA\20240625\20240625-027

**Calibration Date:** 6/11/24
**Calibration ID:** EC2400009
**Analysis Lot:** 845520
**Units:** ng/mL

| Analyte Name | Expected | Result | Average RF | CCV RF | %D | %Drift | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | 10.0 | 9.79 | 0.1460 | 0.1430 | -2.1 | NA | ± 15 % | Average RF |

# Insight Report

Printed at 6/26/2024 11:57:40 AM

Method File: I:\LCMS01\DATA\20240624\20240624.lcm
Project File: I:\LCMS01\DATA\20240624\20240624.damlp

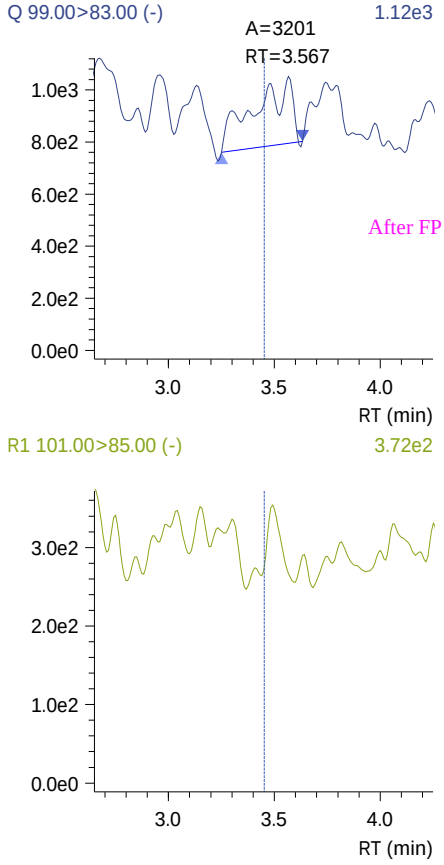
## IB

Sample ID: IB
Date Acquired: 6/24/2024 9:04:20 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | NI | ---- | ---- | 182988 | ---- | ng/mL | 101.00<br>>85.00 | 0.00 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | Auto | 3.457 | 182988 | 182988 | 1.0000 | ng/mL | ---- | ---- | |

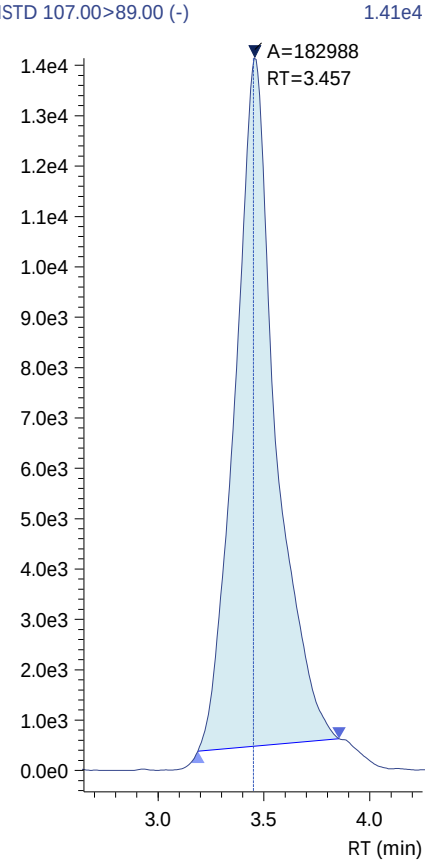
### Perchlorate

Conc ----
R#1 0.00 (35.24)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2024 11:58:29 AM

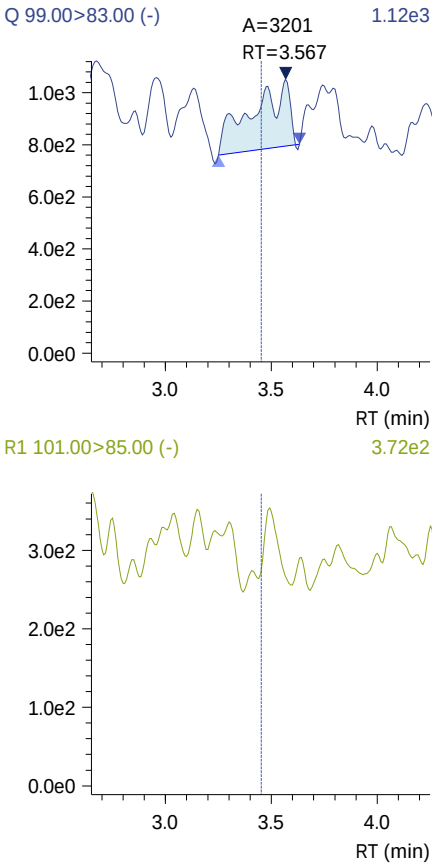
Method File: I:\LCMS01\DATA\20240624\20240624.lcm
Project File: I:\LCMS01\DATA\20240624\20240624.damlp

## IB

Sample ID: IB
Date Acquired: 6/24/2024 9:04:20 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

### Perchlorate

Conc 0.1198
R#1 0.00 (35.24)

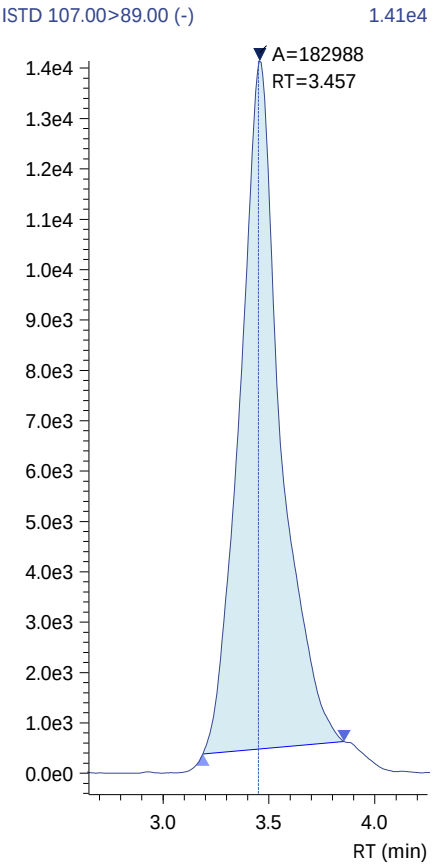






### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2024 11:57:40 AM

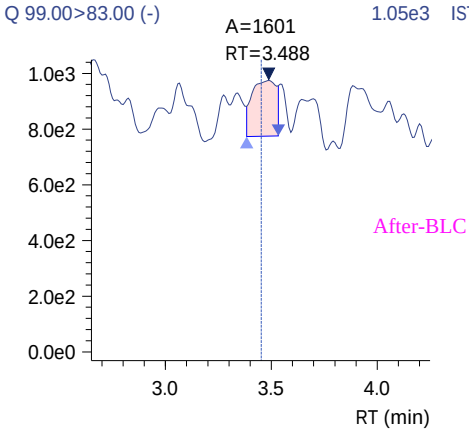
## LODV

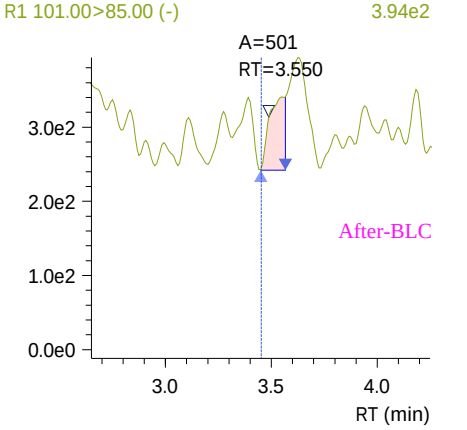
Sample ID: LODV
Date Acquired: 6/24/2024 9:09:52 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | M | 3.488 | 1601 | 198442 | 0.0552 | ng/mL | 101.00<br>>85.00 | 31.30 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | Auto | 3.453 | 198442 | 198442 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

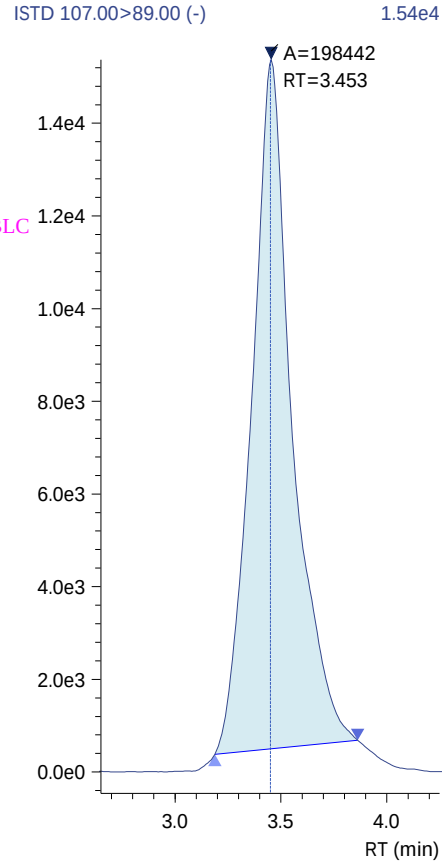
Conc 0.0552
R#1 31.30 (35.24)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

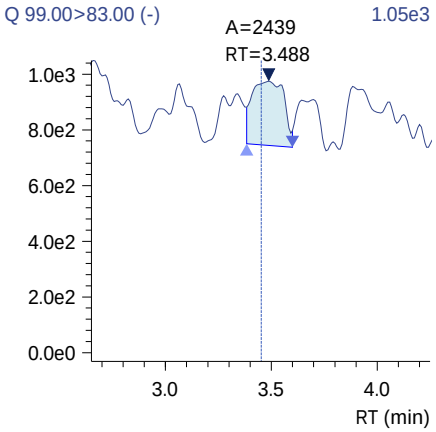
Printed at 6/26/2024 11:58:29 AM

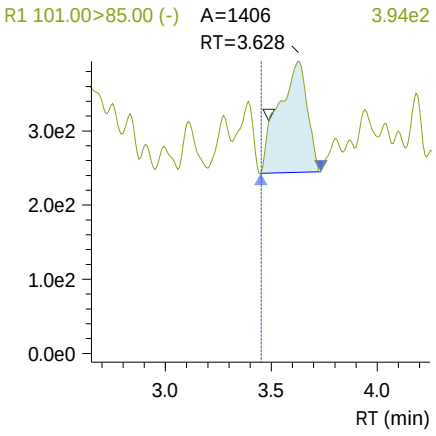
## LODV

Sample ID: LODV
Date Acquired: 6/24/2024 9:09:52 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

### Perchlorate

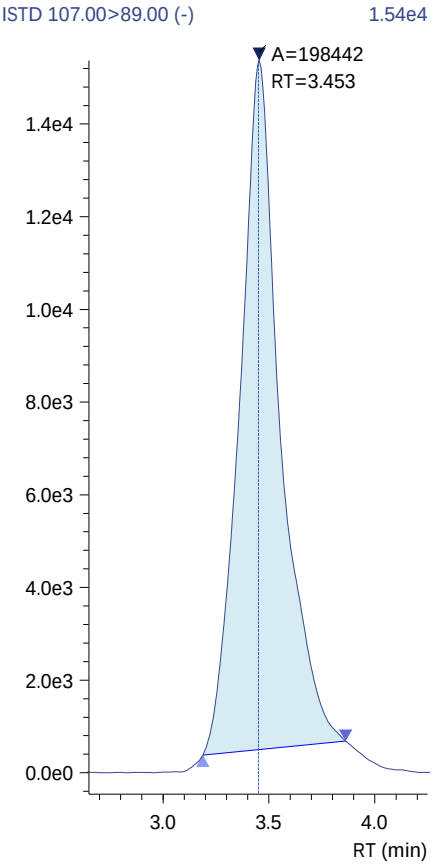
Conc 0.0842
R#1 57.62 (35.24)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2024 11:57:40 AM

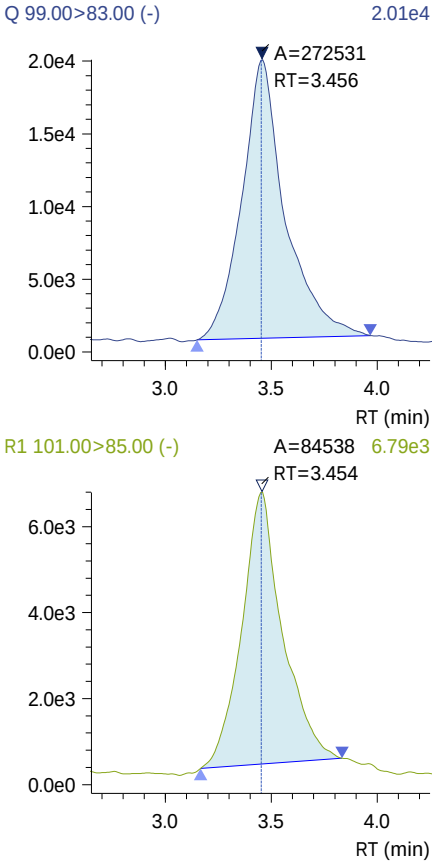
## CCV

Sample ID: CCV
Date Acquired: 6/24/2024 9:20:57 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.456 | 272531 | 198308 | 9.4126 | ng/mL | 101.00<br>>85.00 | 31.02 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | M | 3.453 | 198308 | 198308 | 1.0000 | ng/mL | ---- | ---- | |

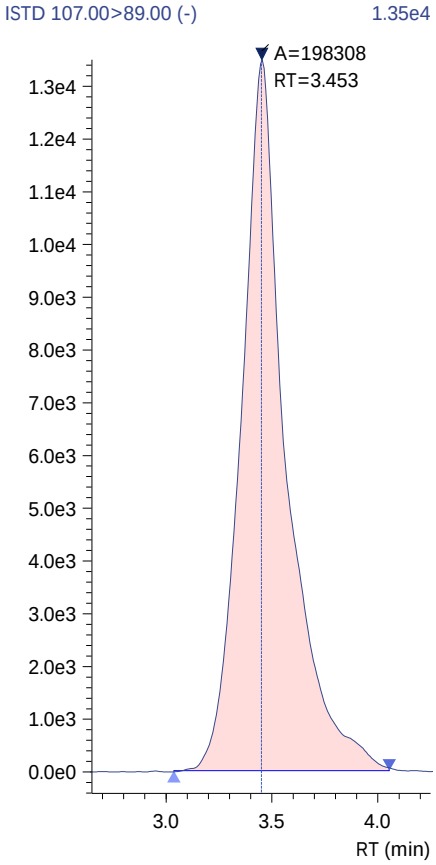
### Perchlorate

Conc 9.4126
R#1 31.02 (35.24)




### Sodium Perchlorate-18O4_IS

Conc 1.0000




After-BLC

# Insight Report

Printed at 6/26/2024 11:58:29 AM

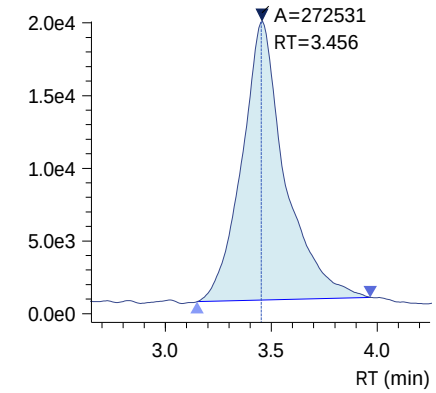
## CCV

Sample ID: CCV
Date Acquired: 6/24/2024 9:20:57 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

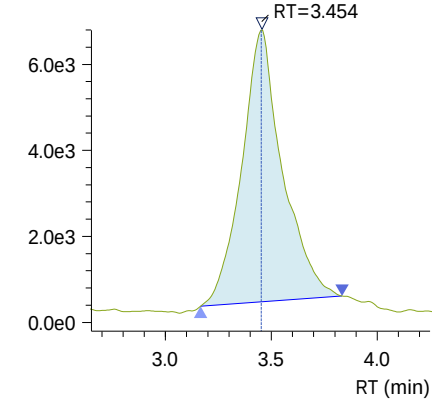
### Perchlorate

Conc 10.6506
R#1 31.02 (35.24)

Q 99.00>83.00 (-) 2.01e4



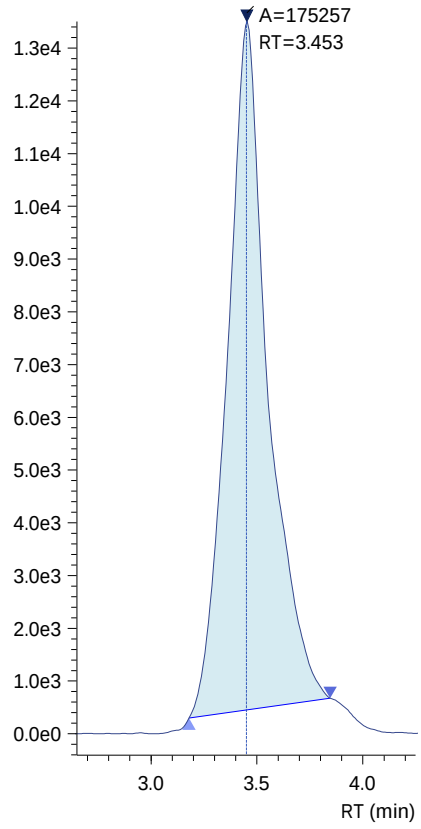

R1 101.00>85.00 (-) A=84538 6.79e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.35e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

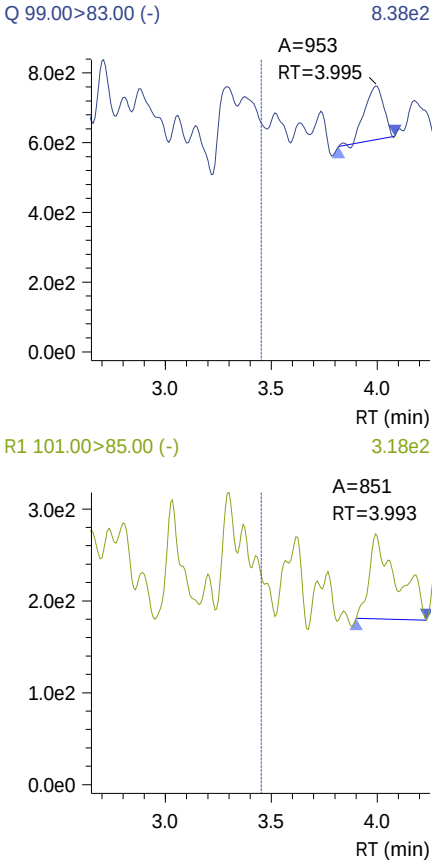
## IB

Sample ID: IB
Date Acquired: 6/24/2024 10:20:24 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND(W/B) | ---- | ---- | 227162 | ---- | ng/mL | 101.00<br>>85.00 | 0.00 | 23.32<br>-42.73 |
| Sodium Perchlorate-18O4_IS | M | 3.453 | 227162 | 227162 | 1.0000 | ng/mL | ---- | ---- | |

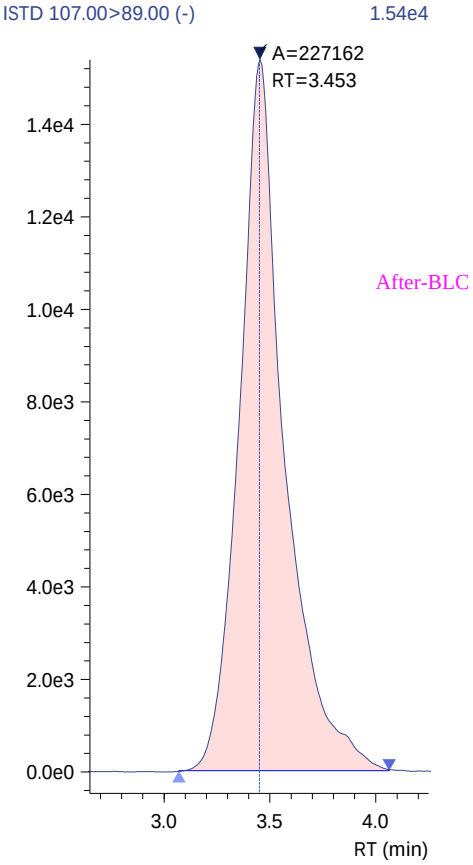
### Perchlorate

Conc ----
R#1 0.00 (35.24)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2024 11:58:29 AM

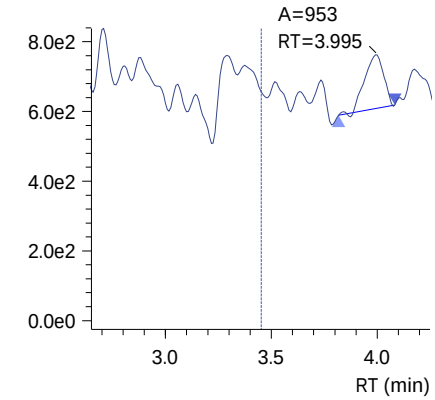
## IB

Sample ID: IB
Date Acquired: 6/24/2024 10:20:24 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

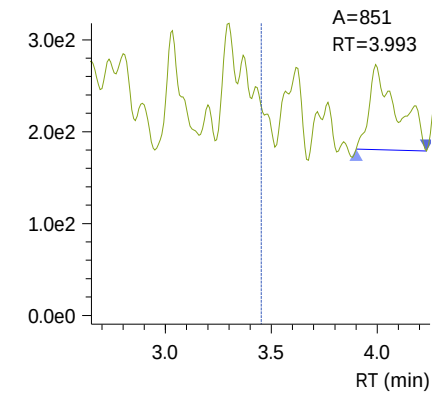
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 8.38e2



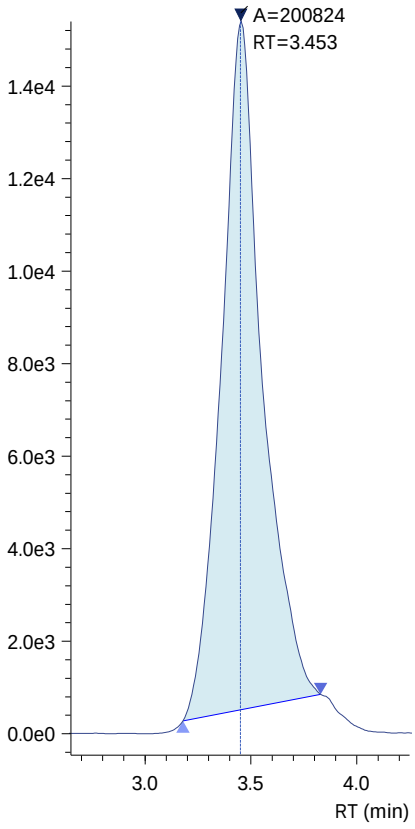

R1 101.00>85.00 (-) 3.18e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.54e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

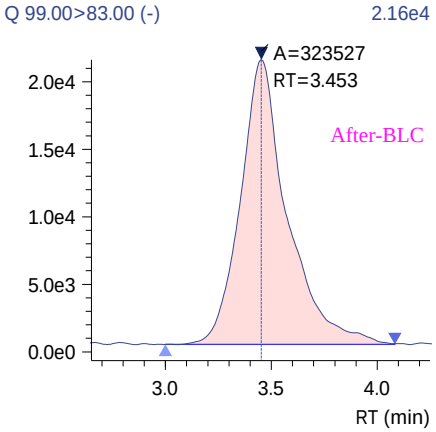
## CCV

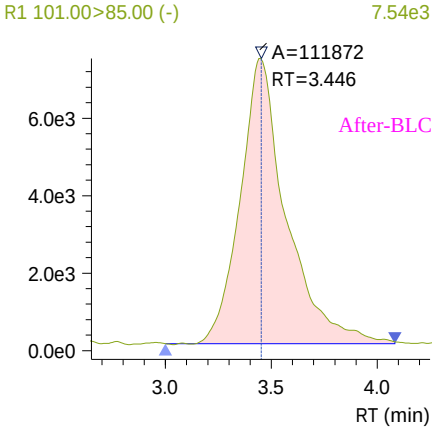
Sample ID: CCV
Date Acquired: 6/24/2024 11:15:35 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | M | 3.453 | 323527 | 223642 | 9.9081 | ng/mL | 101.00<br>>85.00 | 34.58 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | M | 3.449 | 223642 | 223642 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

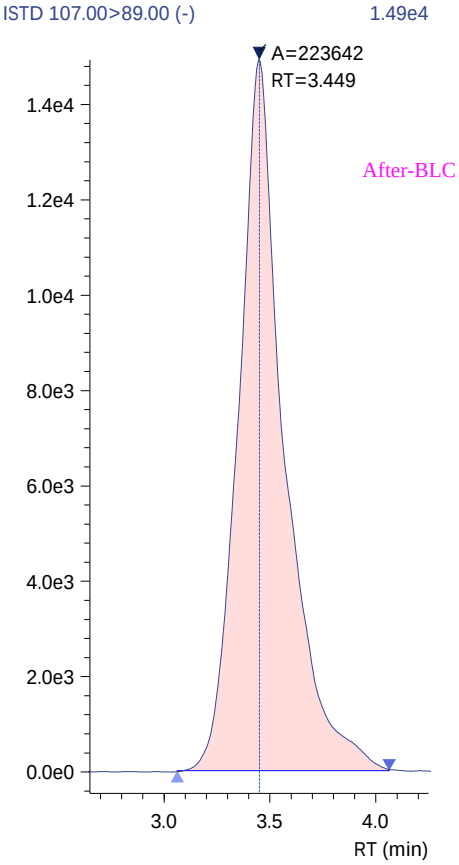
Conc 9.9081
R#1 34.58 (35.24)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2024 11:58:29 AM

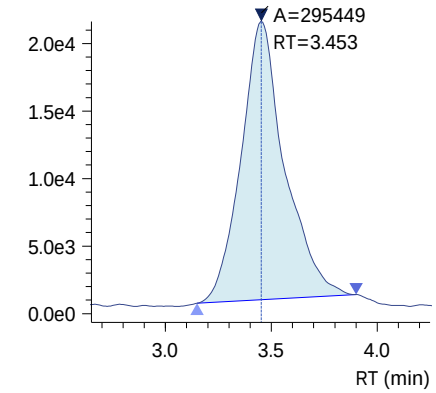
## CCV

Sample ID: CCV
Date Acquired: 6/24/2024 11:15:35 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

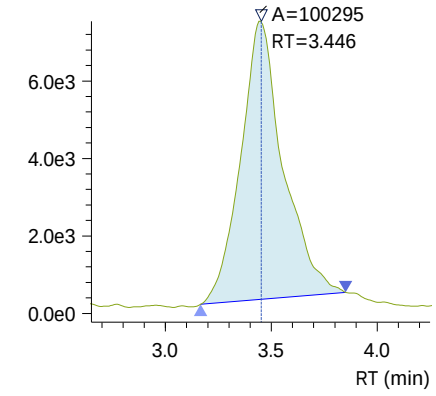
### Perchlorate

Conc 10.2540
R#1 33.95 (35.24)

Q 99.00>83.00 (-) 2.16e4



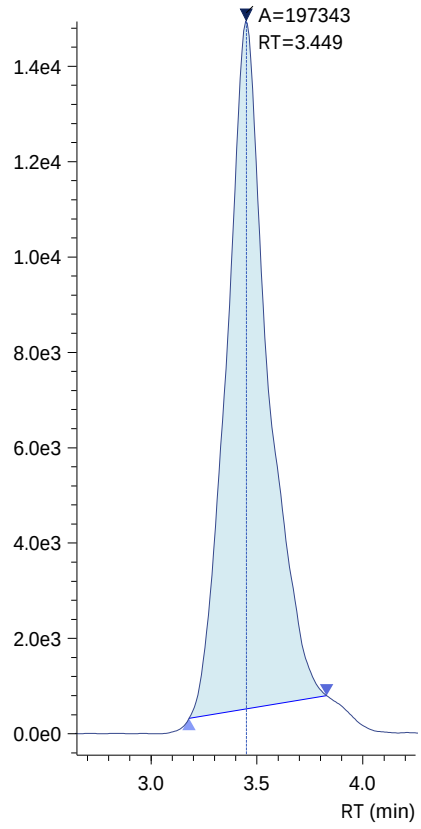

R1 101.00>85.00 (-) 7.54e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.49e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

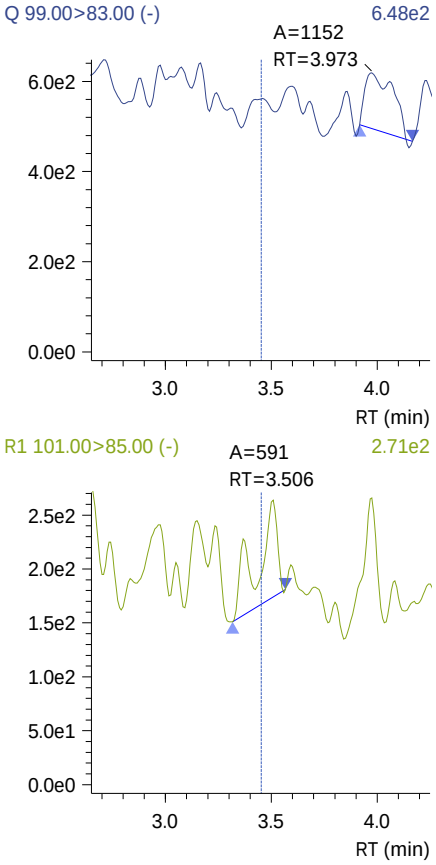
## IB

Sample ID: IB
Date Acquired: 6/24/2024 11:21:05 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-018.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND(W/B) | ---- | ---- | 201405 | ---- | ng/mL | 101.00<br>>85.00 | 0.00 | 23.32<br>-42.73 |
| Sodium Perchlorate-18O4_IS | Auto | 3.447 | 201405 | 201405 | 1.0000 | ng/mL | ---- | ---- | |

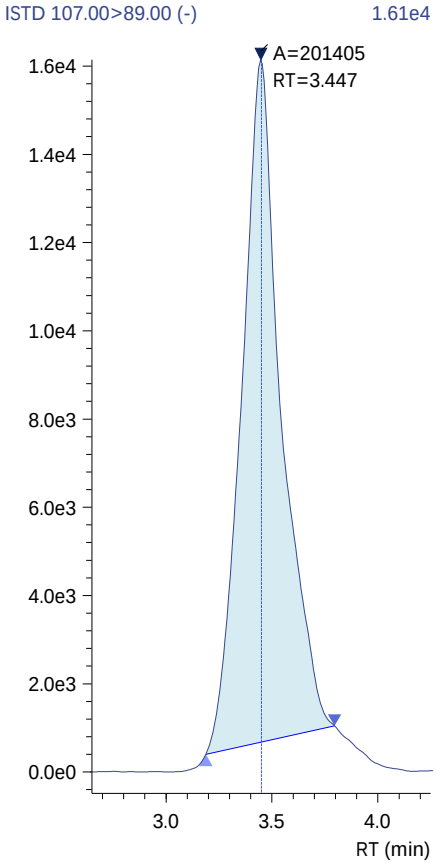
### Perchlorate

Conc ----
R#1 0.00 (35.24)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2024 11:57:40 AM

## CCV

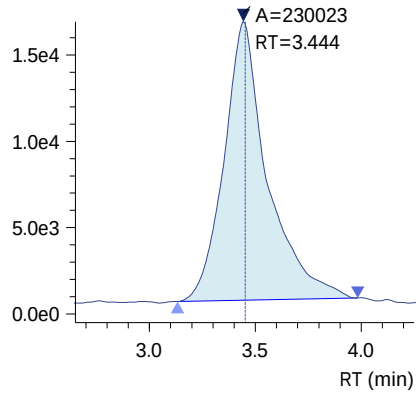
Sample ID: CCV
Date Acquired: 6/24/2024 2:41:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-029.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.444 | 230023 | 169981 | 9.2683 | ng/mL | 101.00<br>>85.00 | 32.22 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | M | 3.438 | 169981 | 169981 | 1.0000 | ng/mL | ---- | ---- | |

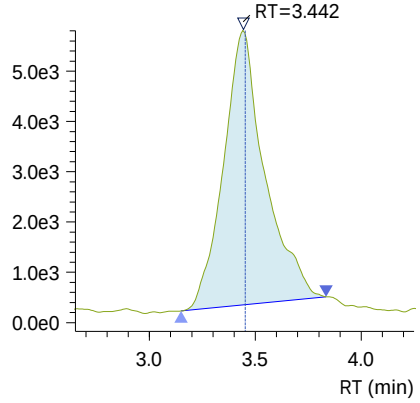
### Perchlorate

Conc 9.2683
R#1 32.22 (35.24)

Q 99.00>83.00 (-) 1.69e4



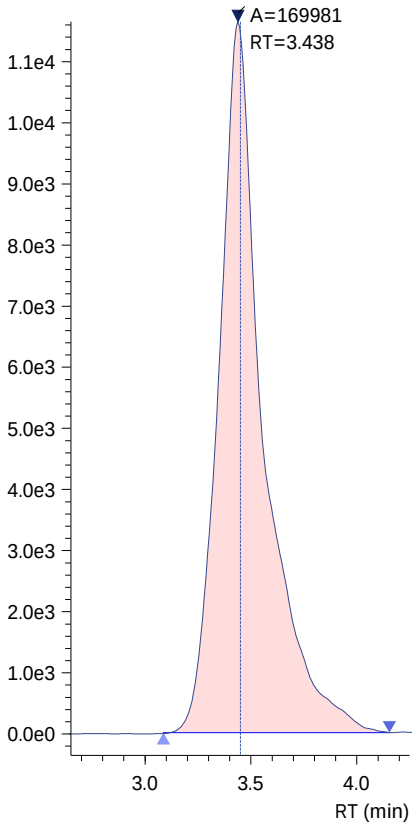

R1 101.00>85.00 (-) A=74112 5.81e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.17e4




After-BLC

# Insight Report

Printed at 6/26/2024 11:58:29 AM

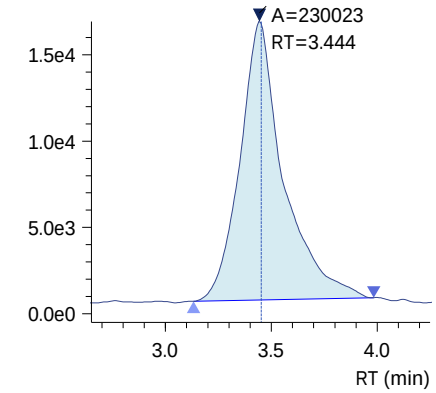
## CCV

Sample ID: CCV
Date Acquired: 6/24/2024 2:41:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-029.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

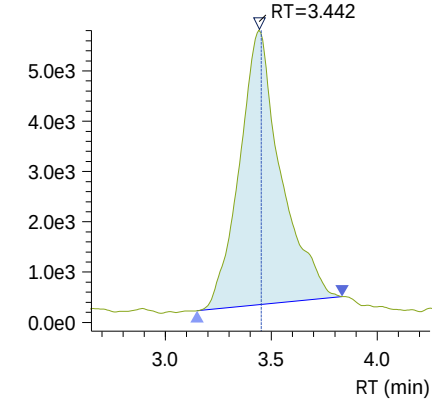
### Perchlorate

Conc 10.4108
R#1 32.22 (35.24)

Q 99.00>83.00 (-) 1.69e4



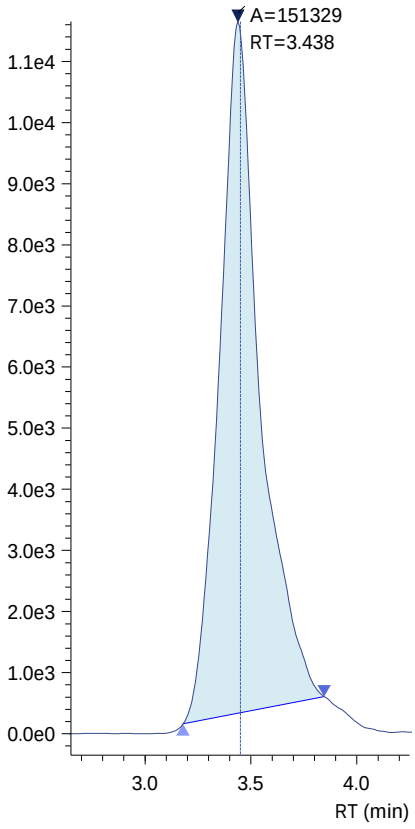

R1 101.00>85.00 (-) A=74112 5.81e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.17e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

## IB

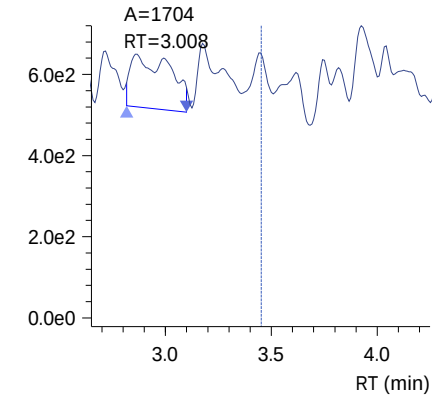
Sample ID: IB
Date Acquired: 6/24/2024 2:47:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-030.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND(W/B) | ---- | ---- | 183389 | ---- | ng/mL | 101.00<br>>85.00 | 0.00 | 23.32<br>-42.73 |
| Sodium Perchlorate-18O4_IS | M | 3.439 | 183389 | 183389 | 1.0000 | ng/mL | ---- | ---- | |

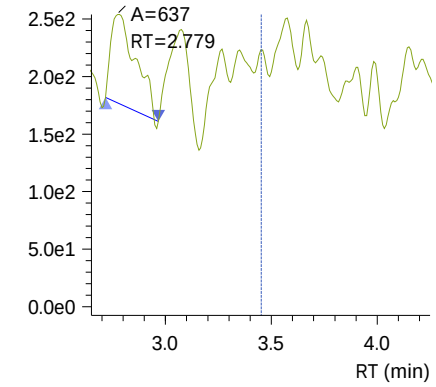
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 7.20e2



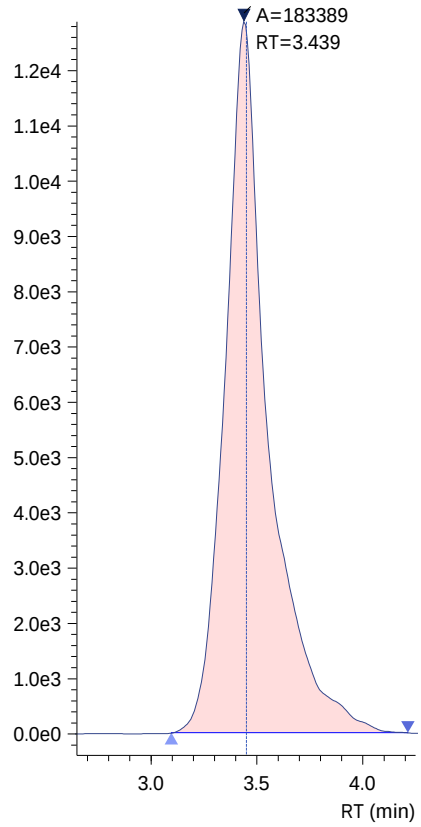

R1 101.00>85.00 (-) 2.54e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.29e4




After-BLC

# Insight Report

Printed at 6/26/2024 11:58:29 AM

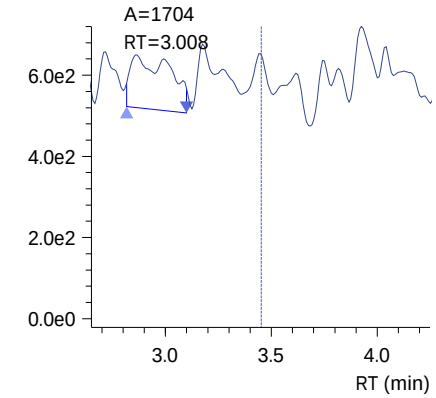
## IB

Sample ID: IB
Date Acquired: 6/24/2024 2:47:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-030.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

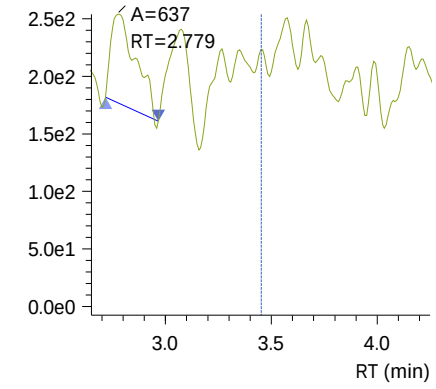
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 7.20e2



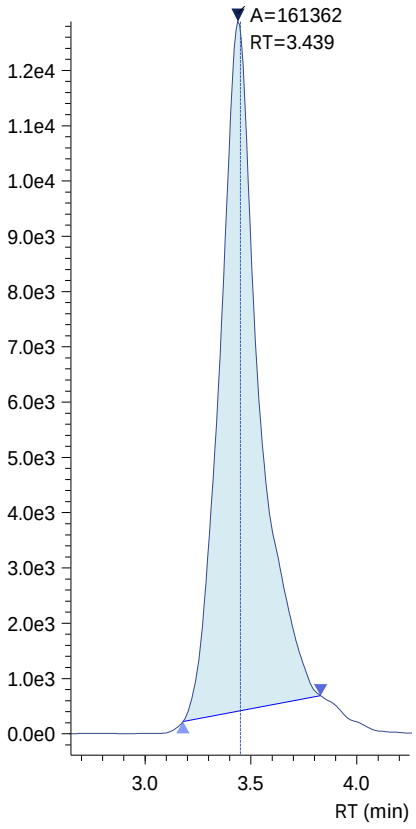

R1 101.00>85.00 (-) 2.54e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.29e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

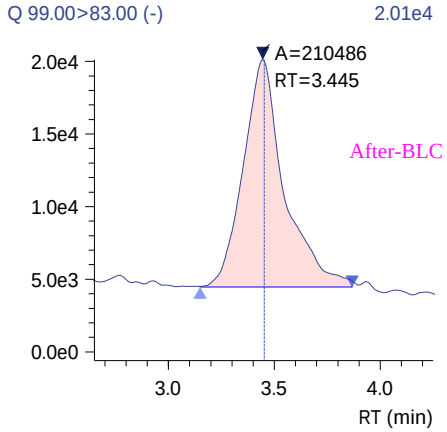
## CCV

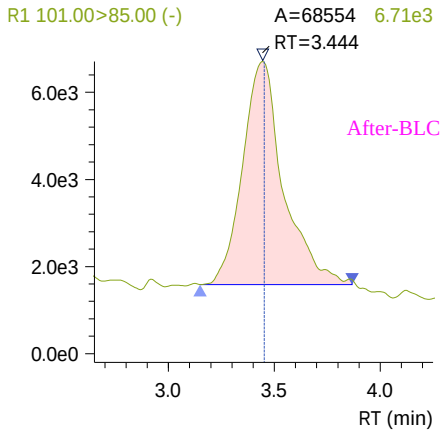
Sample ID: CCV
Date Acquired: 6/24/2024 3:47:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-041.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | M | 3.445 | 210486 | 160199 | 8.9990 | ng/mL | 101.00<br>>85.00 | 32.57 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | M | 3.436 | 160199 | 160199 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

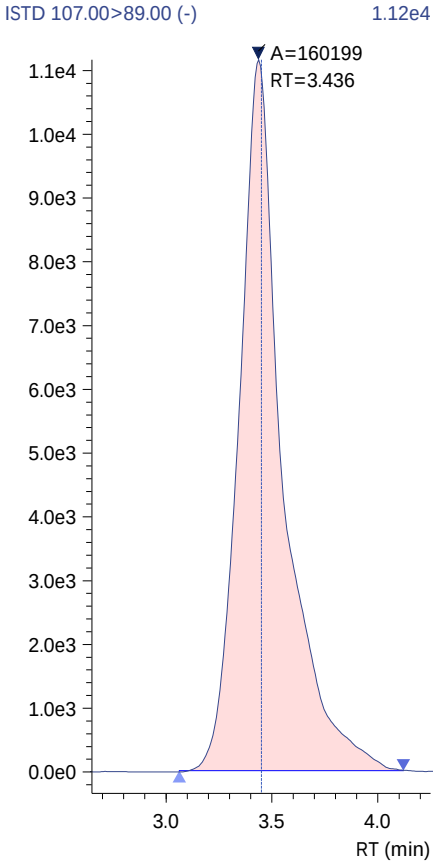
Conc 8.9990
R#1 32.57 (35.24)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2024 11:58:29 AM

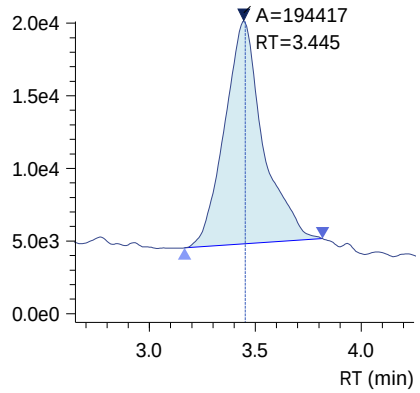
## CCV

Sample ID: CCV
Date Acquired: 6/24/2024 3:47:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-041.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

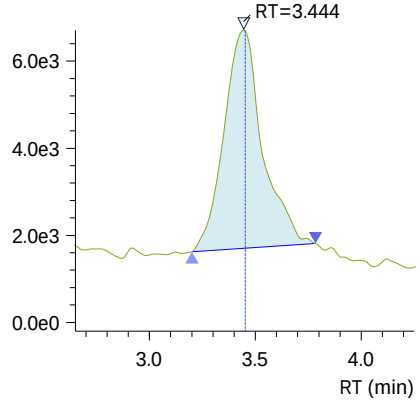
### Perchlorate

Conc 9.4579
R#1 32.58 (35.24)

Q 99.00>83.00 (-) 2.01e4



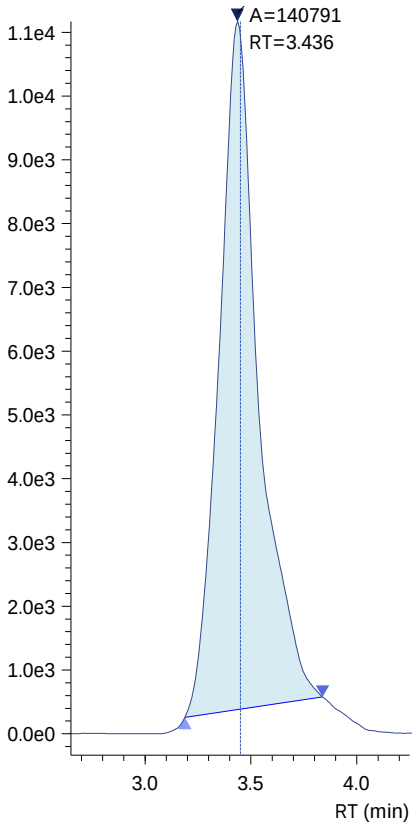

R1 101.00>85.00 (-) A=63331 6.71e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.12e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

## IB

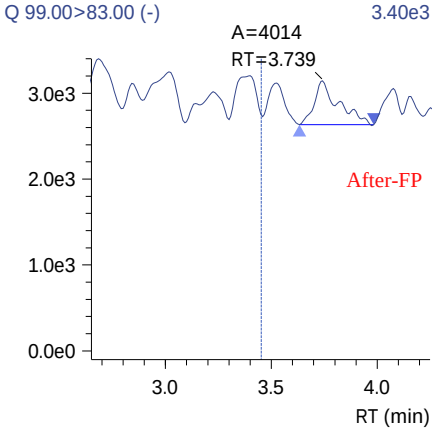
Sample ID: IB
Date Acquired: 6/24/2024 3:53:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-042.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | NI | ---- | ---- | 170279 | ---- | ng/mL | 101.00<br>>85.00 | 0.00 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | M | 3.438 | 170279 | 170279 | 1.0000 | ng/mL | ---- | ---- | |

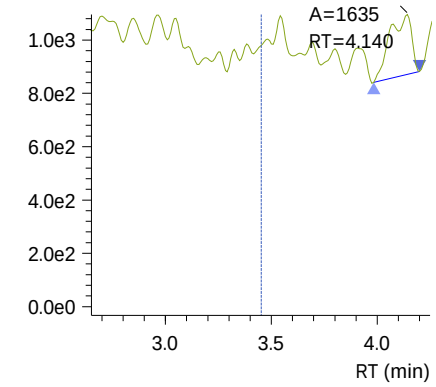
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 3.40e3



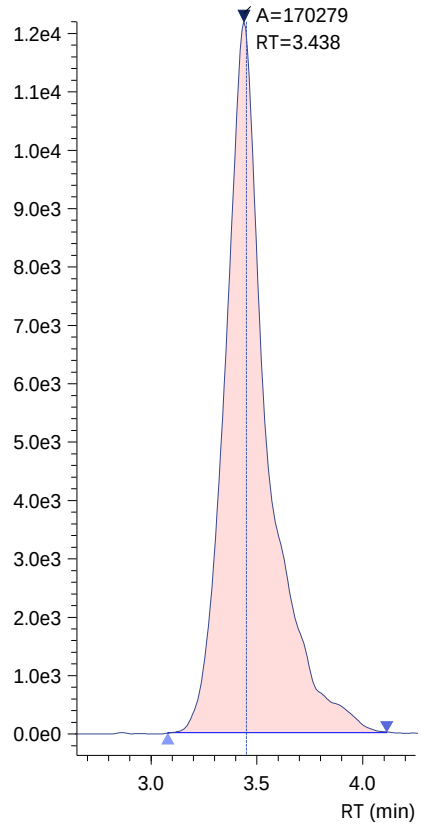

R1 101.00>85.00 (-) 1.10e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.22e4



# Insight Report

Printed at 6/26/2024 11:58:29 AM

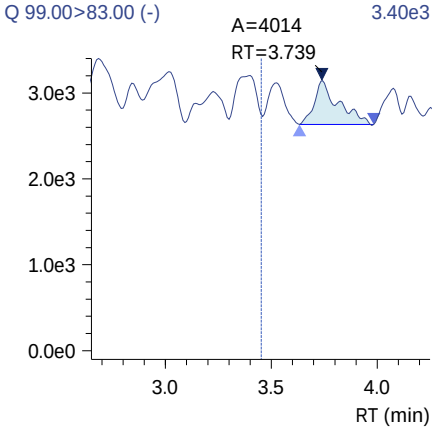
## IB

Sample ID: IB
Date Acquired: 6/24/2024 3:53:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-042.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

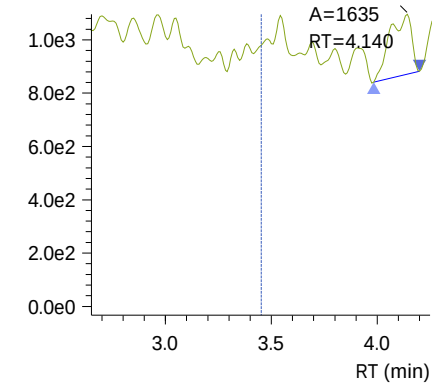
### Perchlorate

Conc 0.1852
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 3.40e3



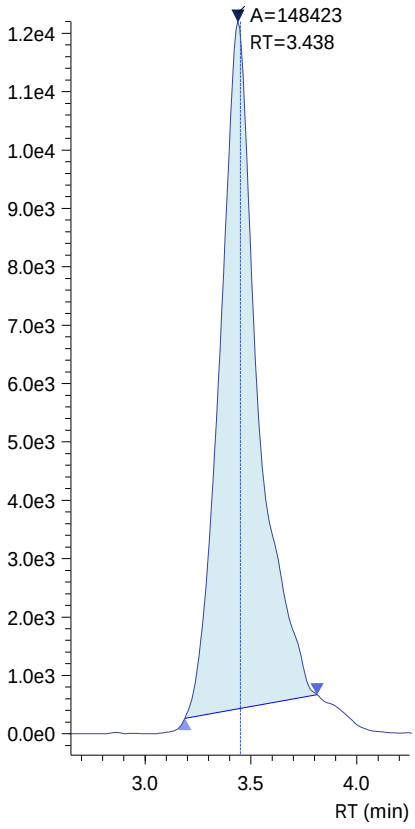

R1 101.00>85.00 (-) 1.10e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.22e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

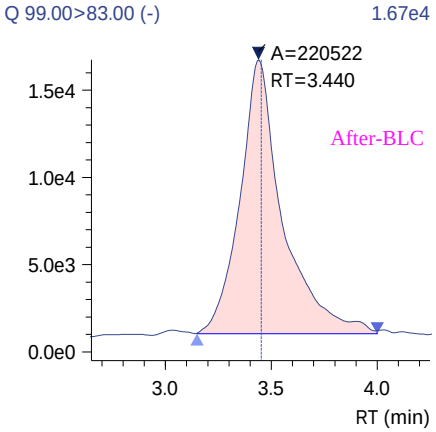
## CCV

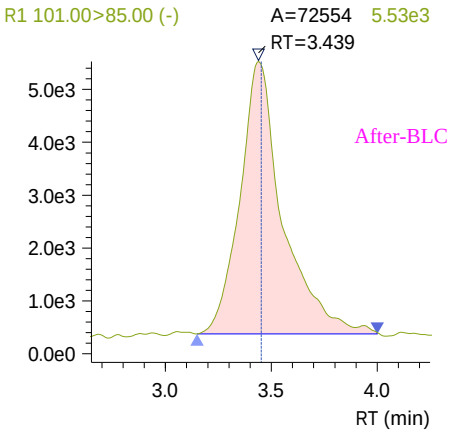
Sample ID: CCV
Date Acquired: 6/24/2024 4:54:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-053.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | M | 3.440 | 220522 | 158767 | 9.5131 | ng/mL | 101.00<br>>85.00 | 32.90 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | M | 3.437 | 158767 | 158767 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

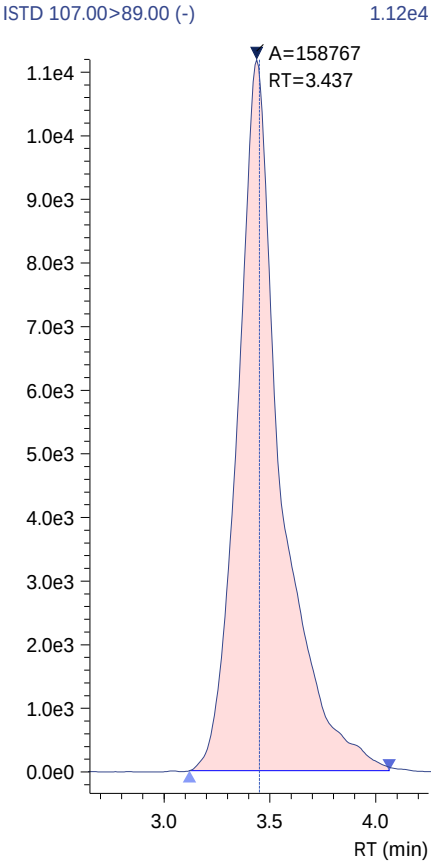
Conc 9.5131
R#1 32.90 (35.24)




### Sodium Perchlorate-18O4_IS

Conc 1.0000




After-BLC

# Insight Report

Printed at 6/26/2024 11:58:29 AM

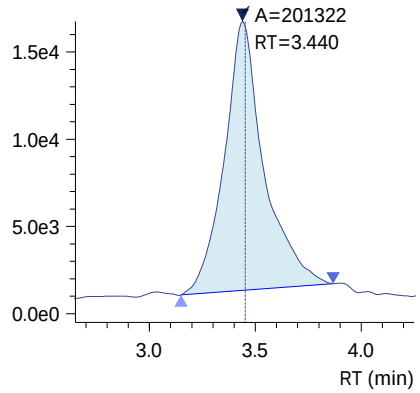
## CCV

Sample ID: CCV
Date Acquired: 6/24/2024 4:54:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-053.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

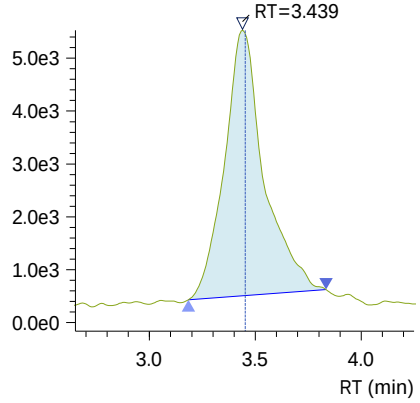
### Perchlorate

Conc 9.9593
R#1 32.35 (35.24)

Q 99.00>83.00 (-) 1.67e4



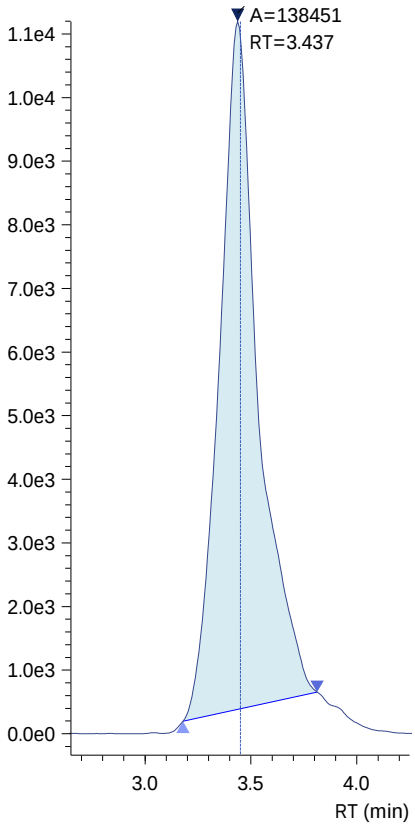

R1 101.00>85.00 (-) A=65135 5.53e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.12e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

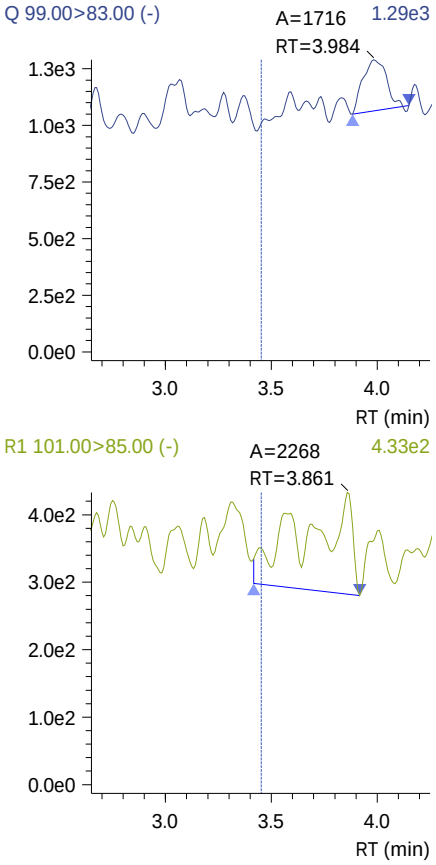
## IB

Sample ID: IB
Date Acquired: 6/24/2024 4:59:56 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-054.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND(W/B) | ---- | ---- | 166008 | ---- | ng/mL | 101.00<br>>85.00 | 0.00 | 23.32<br>-42.73 |
| Sodium Perchlorate-18O4_IS | M | 3.438 | 166008 | 166008 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

Conc ----
R#1 0.00 (35.24)

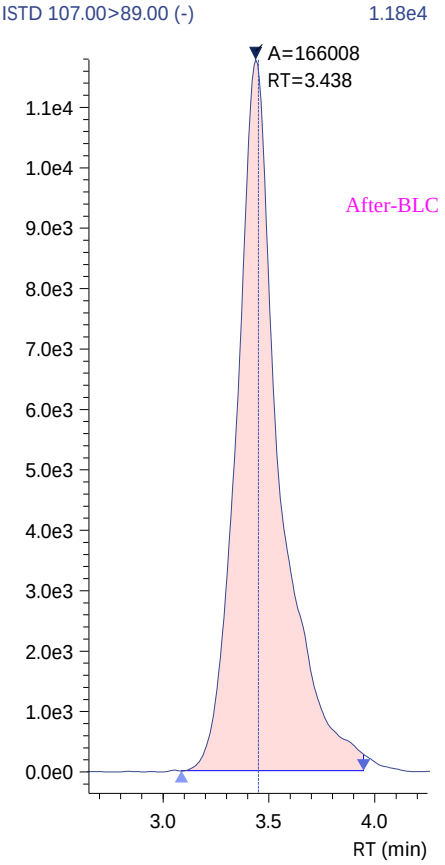






### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

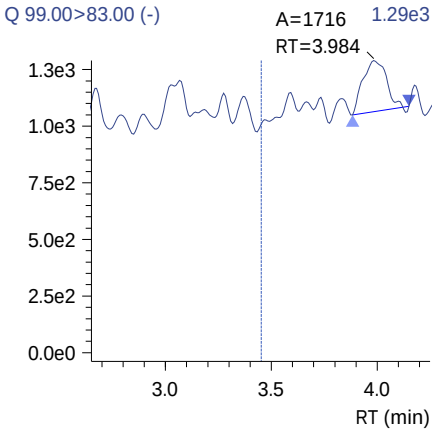
Printed at 6/26/2024 11:58:29 AM

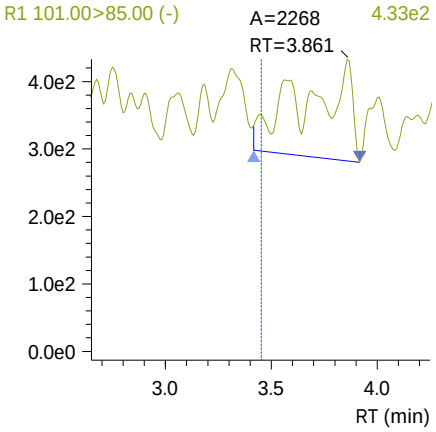
## IB

Sample ID: IB
Date Acquired: 6/24/2024 4:59:56 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-054.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

### Perchlorate

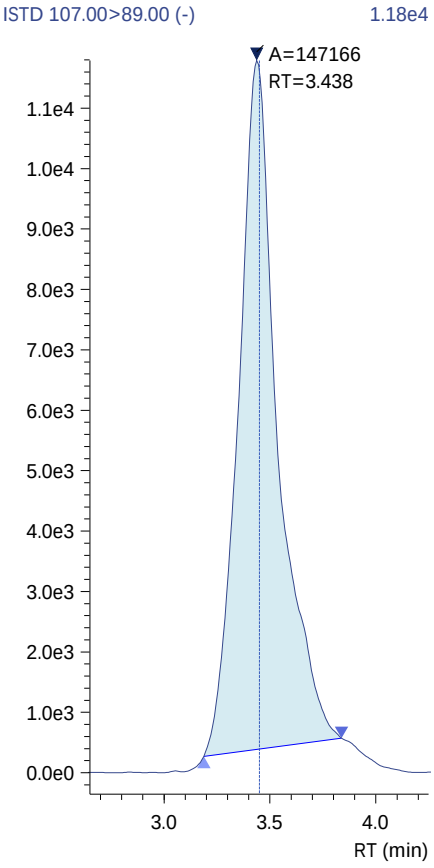
Conc ----
R#1 0.00 (35.24)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2024 11:57:40 AM

## EQ2400345-001MB

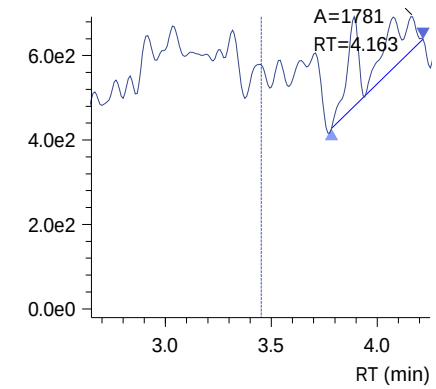
Sample ID: EQ2400345-001MB
Date Acquired: 6/24/2024 2:08:33 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-023.lcd
Vial: 14 | Inj. Volume: 10.0000uL | Tray: 5

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND(W/B) | ---- | ---- | 179777 | ---- | ng/mL | 101.00<br>>85.00 | 0.00 | 23.32<br>-42.73 |
| Sodium Perchlorate-18O4_IS | M | 3.442 | 179777 | 179777 | 1.0000 | ng/mL | ---- | ---- | |

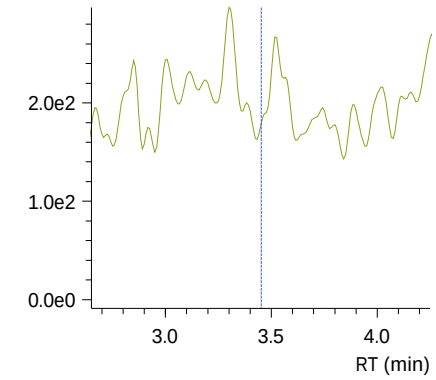
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 6.92e2



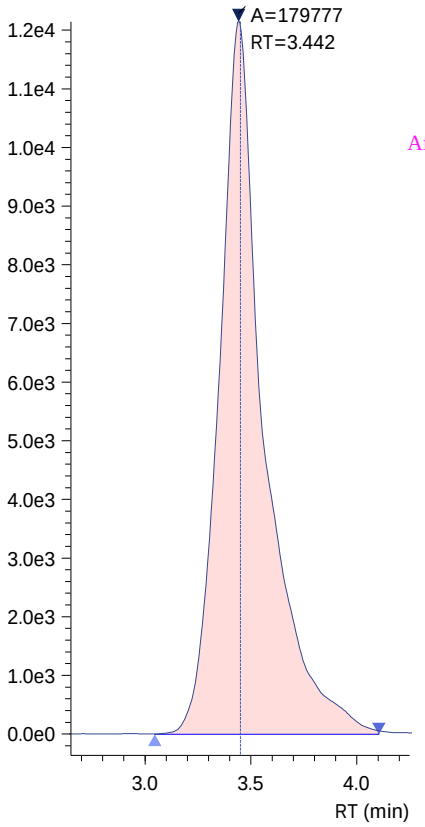

R1 101.00>85.00 (-) 2.97e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.21e4




After-BLC

# Insight Report

Printed at 6/26/2024 11:58:29 AM

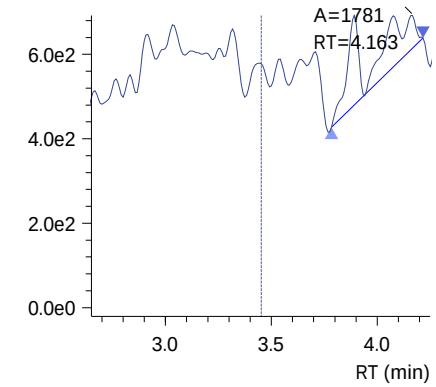
## EQ2400345-001MB

Sample ID: EQ2400345-001MB
Date Acquired: 6/24/2024 2:08:33 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-023.lcd
Vial: 14 | Inj. Volume: 10.0000uL | Tray: 5

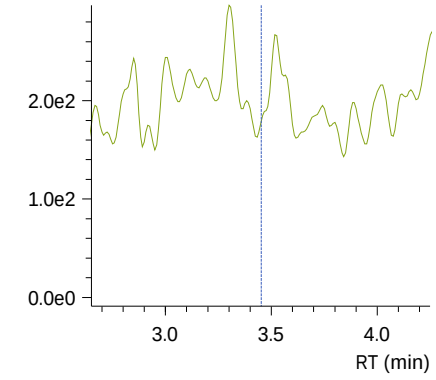
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 6.92e2



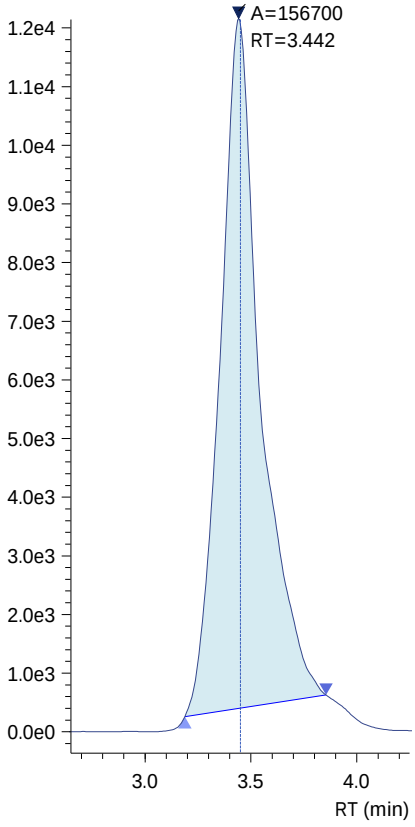

R1 101.00>85.00 (-) 2.97e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.21e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

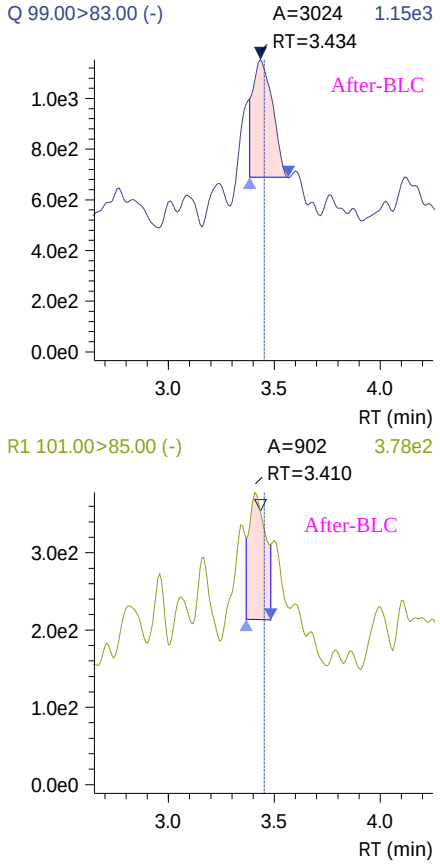
## EQ2400345-02LCS

Sample ID: EQ2400345-02LCS
Date Acquired: 6/24/2024 2:14:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-024.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 5

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | M | 3.434 | 3024 | 180762 | 0.1146 | ng/mL | 101.00<br>>85.00 | 29.83 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | M | 3.439 | 180762 | 180762 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

Conc 0.1146
R#1 29.83 (35.24)

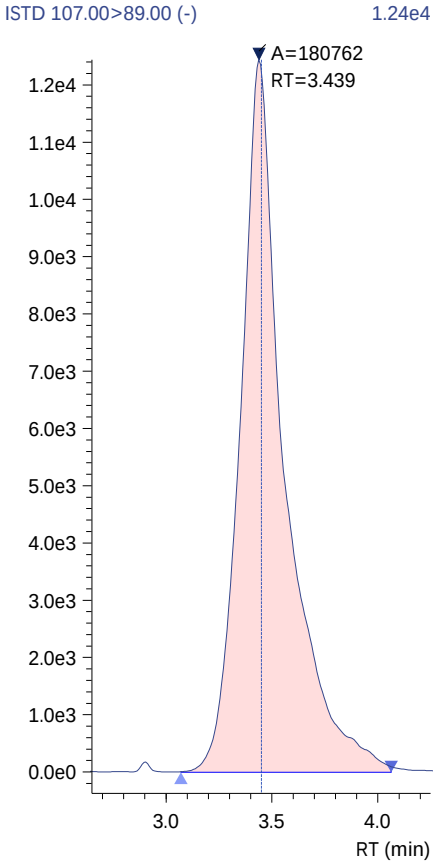






### Sodium Perchlorate-18O4_IS

Conc 1.0000




After-BLC

# Insight Report

Printed at 6/26/2024 11:58:29 AM

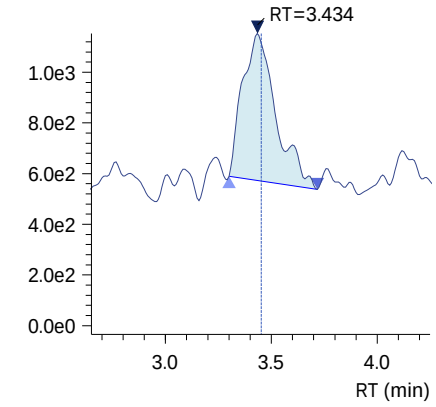
## EQ2400345-02LCS

Sample ID: EQ2400345-02LCS
Date Acquired: 6/24/2024 2:14:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-024.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 5

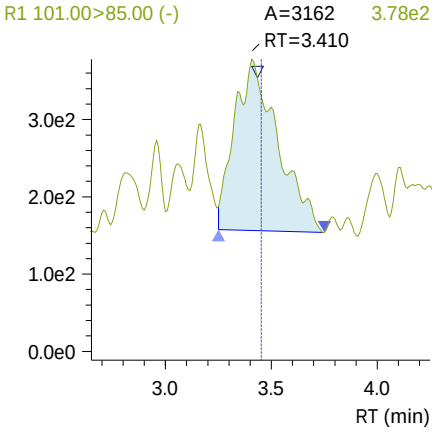
### Perchlorate

Conc 0.2751
R#1 49.84 (35.24)

Q 99.00>83.00 (-) A=6345 1.15e3



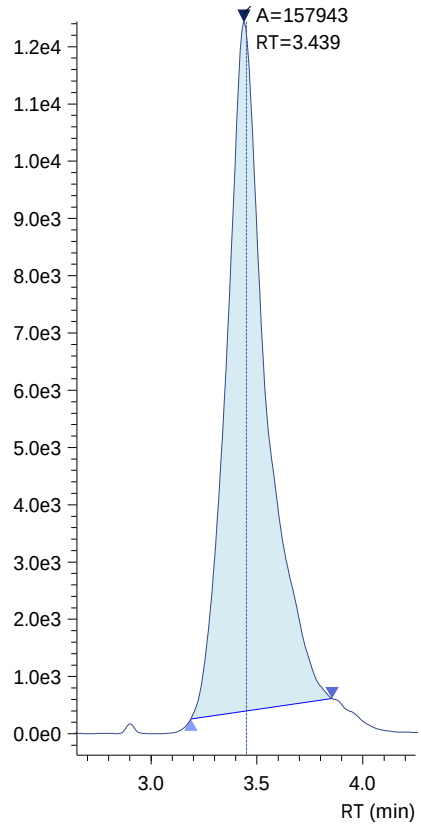

R1 101.00>85.00 (-) A=3162 3.78e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.24e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

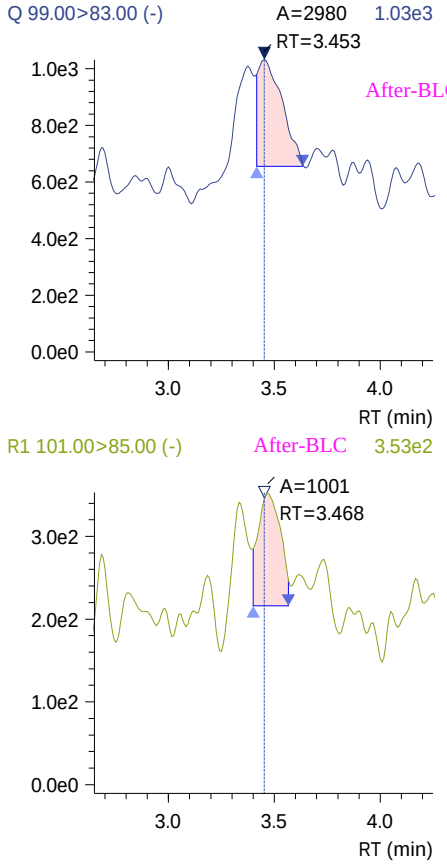
## EQ2400345-03DLCS

Sample ID: EQ2400345-03DLCS
Date Acquired: 6/24/2024 2:19:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-025.lcd
Vial: 16 | Inj. Volume: 10.0000uL | Tray: 5

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | M | 3.453 | 2980 | 182423 | 0.1119 | ng/mL | 101.00<br>>85.00 | 33.57 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | M | 3.440 | 182423 | 182423 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

Conc 0.1119
R#1 33.57 (35.24)

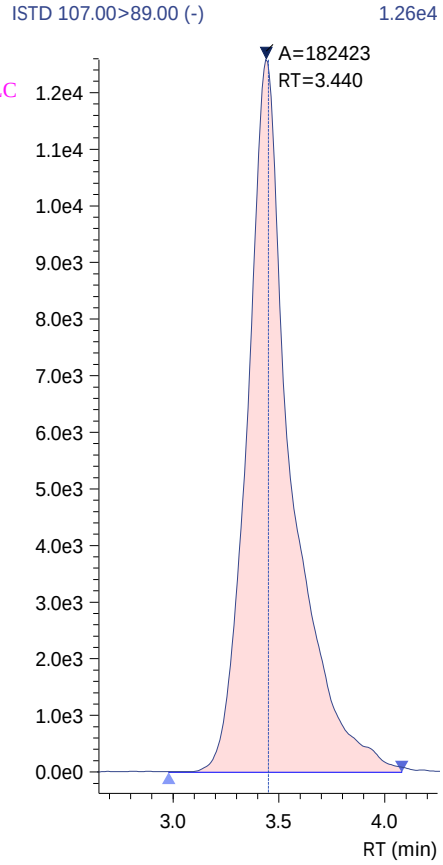






### Sodium Perchlorate-18O4_IS

Conc 1.0000




After-BLC

# Insight Report

Printed at 6/26/2024 11:58:29 AM

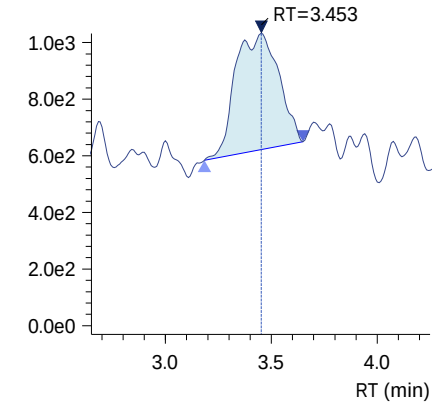
## EQ2400345-03DLCS

Sample ID: EQ2400345-03DLCS
Date Acquired: 6/24/2024 2:19:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-025.lcd
Vial: 16 | Inj. Volume: 10.0000uL | Tray: 5

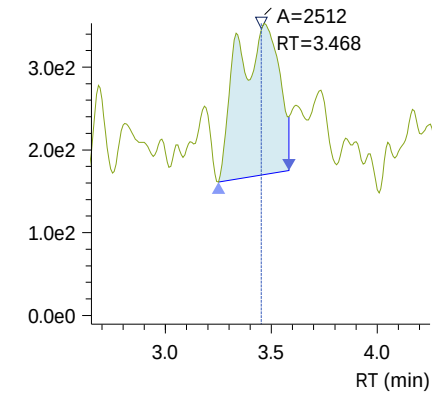
### Perchlorate

Conc 0.2515
R#1 42.62 (35.24)

Q 99.00>83.00 (-) A=5893 1.03e3



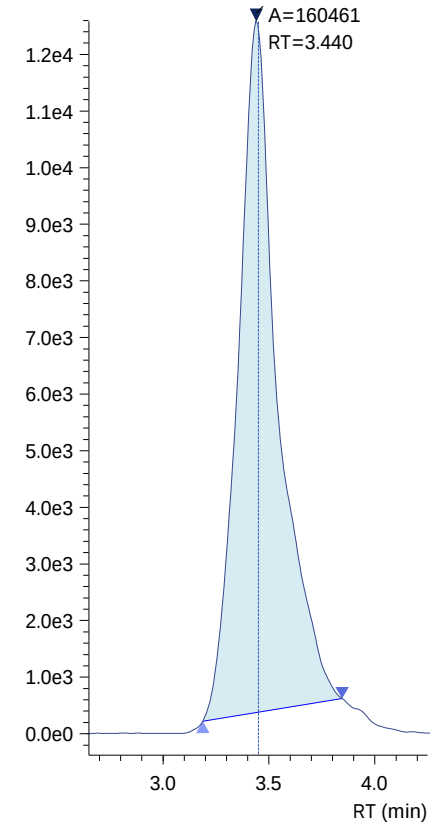

R1 101.00>85.00 (-) 3.53e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.26e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

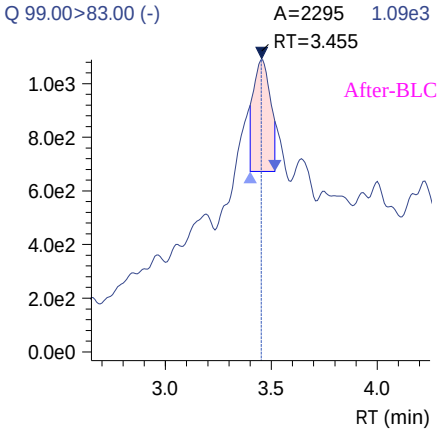
## EQ2400345-04ICS

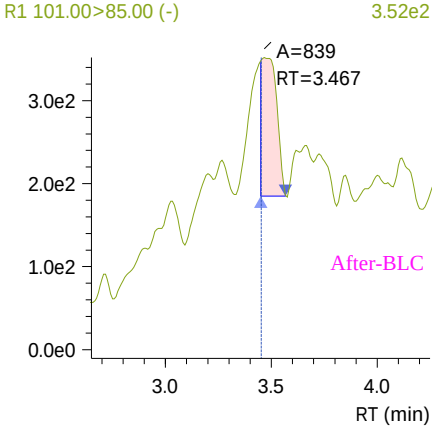
Sample ID: EQ2400345-04ICS
Date Acquired: 6/24/2024 2:25:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-026.lcd
Vial: 17 | Inj. Volume: 10.0000uL | Tray: 5

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | M | 3.455 | 2295 | 147172 | 0.1068 | ng/mL | 101.00<br>>85.00 | 36.57 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | M | 3.442 | 147172 | 147172 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

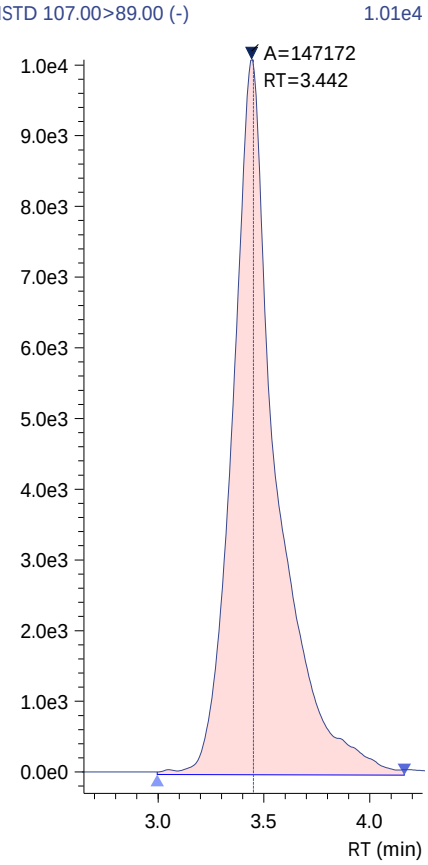
Conc 0.1068
R#1 36.57 (35.24)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2024 11:58:29 AM

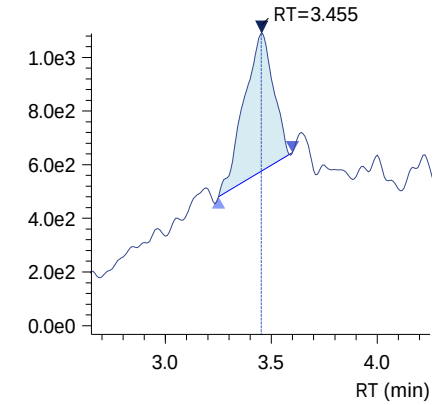
## EQ2400345-04ICS

Sample ID: EQ2400345-04ICS
Date Acquired: 6/24/2024 2:25:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-026.lcd
Vial: 17 | Inj. Volume: 10.0000uL | Tray: 5

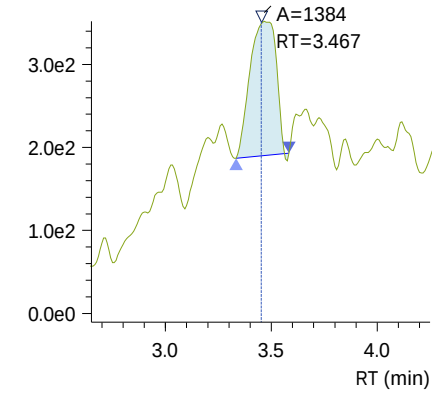
### Perchlorate

Conc 0.2659
R#1 27.86 (35.24)

Q 99.00>83.00 (-) A=4967 1.09e3



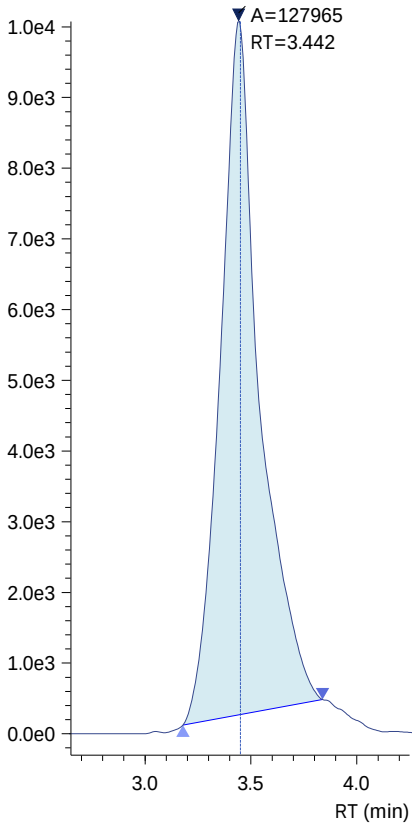

R1 101.00>85.00 (-) 3.52e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.01e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

## E2400716-002

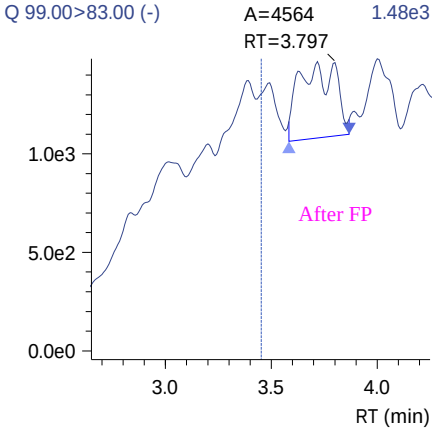
Sample ID: E2400716-002
Date Acquired: 6/24/2024 4:43:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-051.lcd
Vial: 38 | Inj. Volume: 10.0000uL | Tray: 5

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | NI | ---- | ---- | 178331 | ---- | ng/mL | 101.00<br>>85.00 | 0.00 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | M | 3.441 | 178331 | 178331 | 1.0000 | ng/mL | ---- | ---- | |

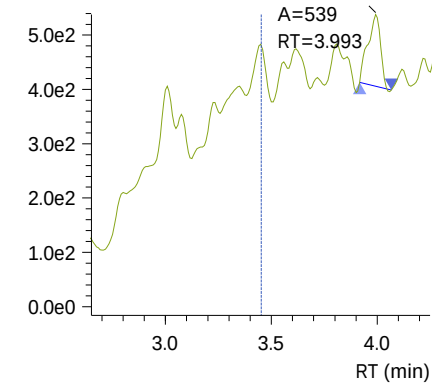
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.48e3



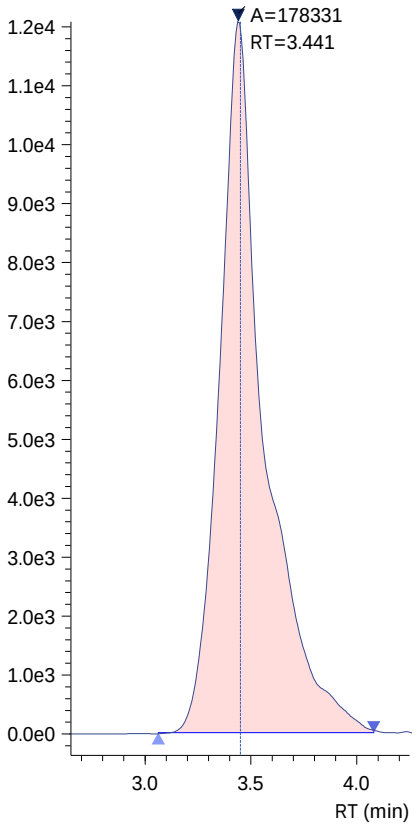

R1 101.00>85.00 (-) 5.38e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.21e4



# Insight Report

Printed at 6/26/2024 11:58:29 AM

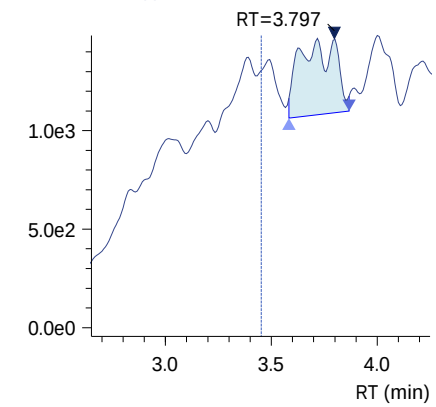
## E2400716-002

Sample ID: E2400716-002
Date Acquired: 6/24/2024 4:43:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-051.lcd
Vial: 38 | Inj. Volume: 10.0000uL | Tray: 5

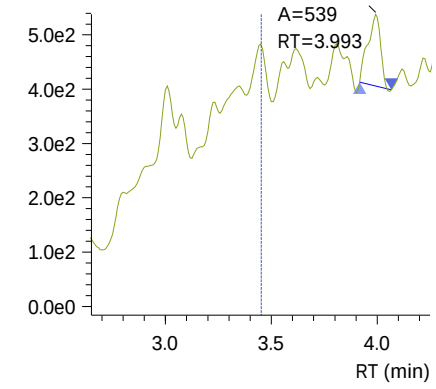
### Perchlorate

Conc 0.2017
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.48e3



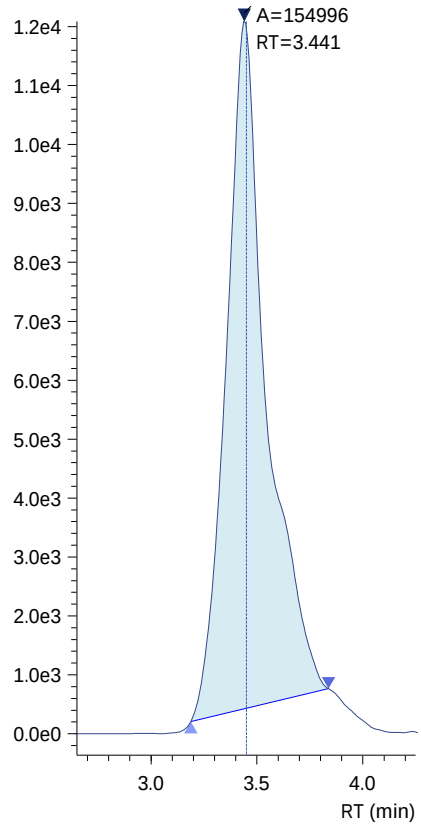

R1 101.00>85.00 (-) 5.38e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.21e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

## E2400716-005

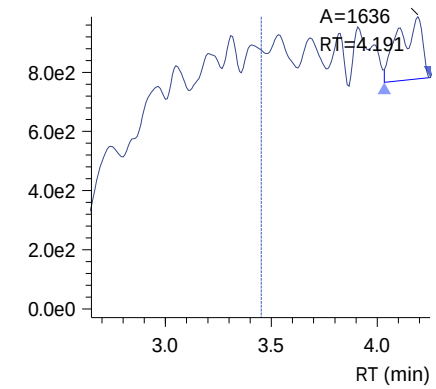
Sample ID: E2400716-005
Date Acquired: 6/24/2024 5:11:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-056.lcd
Vial: 41 | Inj. Volume: 10.0000uL | Tray: 5

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND(W/B) | ---- | ---- | 161458 | ---- | ng/mL | 101.00<br>>85.00 | 0.00 | 23.32<br>-42.73 |
| Sodium Perchlorate-18O4_IS | M | 3.437 | 161458 | 161458 | 1.0000 | ng/mL | ---- | ---- | |

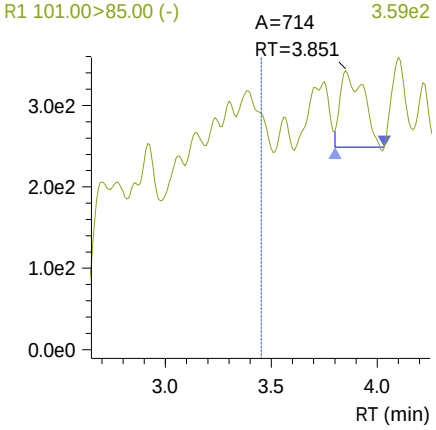
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 9.88e2



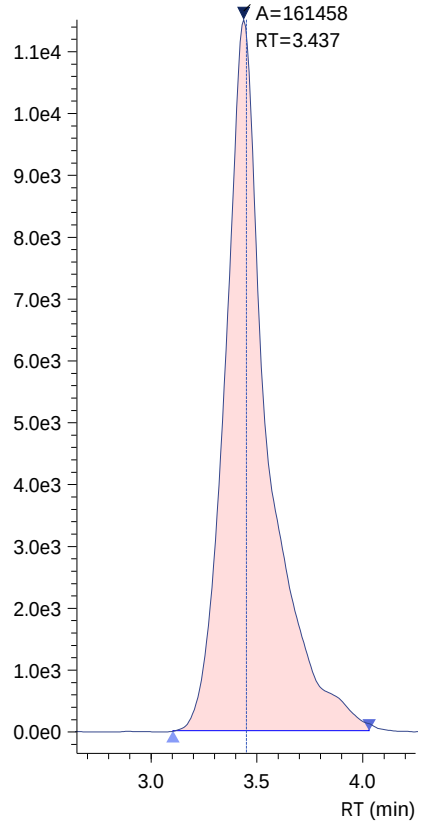

R1 101.00>85.00 (-) 3.59e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.15e4




After-BLC

# Insight Report

Printed at 6/26/2024 11:58:29 AM

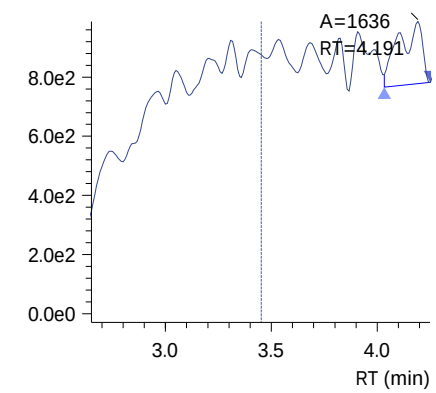
## E2400716-005

Sample ID: E2400716-005
Date Acquired: 6/24/2024 5:11:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-056.lcd
Vial: 41 | Inj. Volume: 10.0000uL | Tray: 5

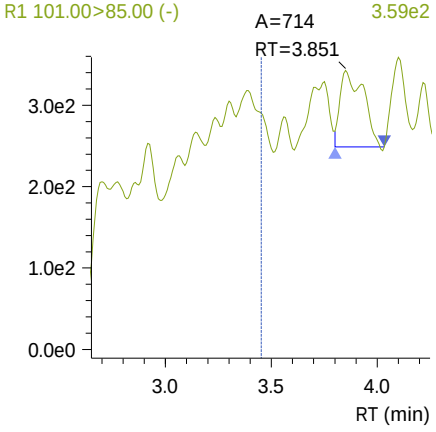
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 9.88e2



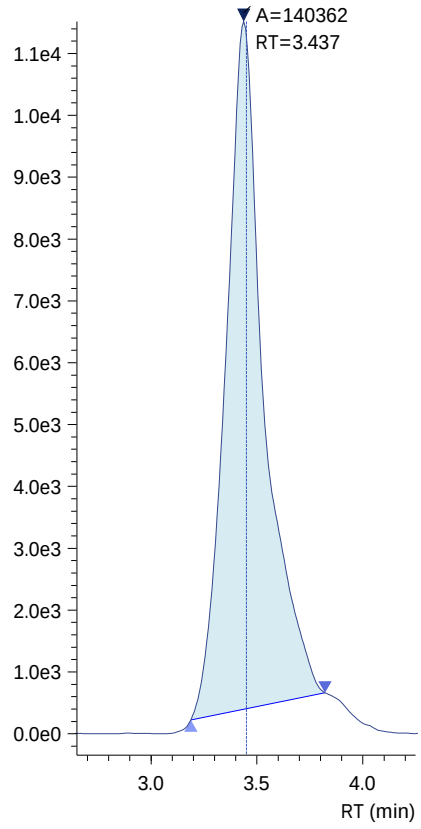

R1 101.00>85.00 (-) 3.59e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.15e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

## E2400716-006

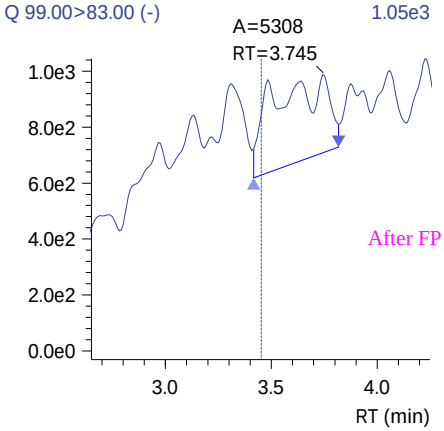
Sample ID: E2400716-006
Date Acquired: 6/24/2024 5:16:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-057.lcd
Vial: 42 | Inj. Volume: 10.0000uL | Tray: 5

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | NI | ---- | ---- | 161096 | ---- | ng/mL | 101.00<br>>85.00 | 0.00 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | M | 3.438 | 161096 | 161096 | 1.0000 | ng/mL | ---- | ---- | |

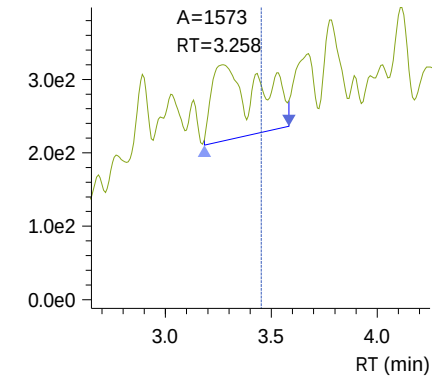
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.05e3



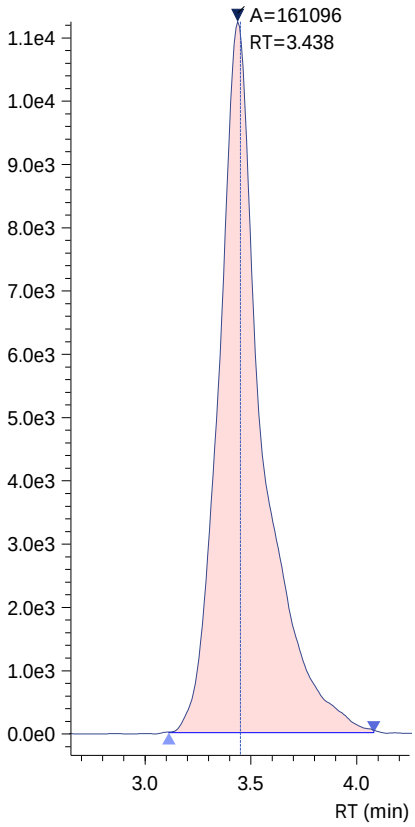

R1 101.00>85.00 (-) 3.98e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.13e4




After-BLC

# Insight Report

Printed at 6/26/2024 11:58:29 AM

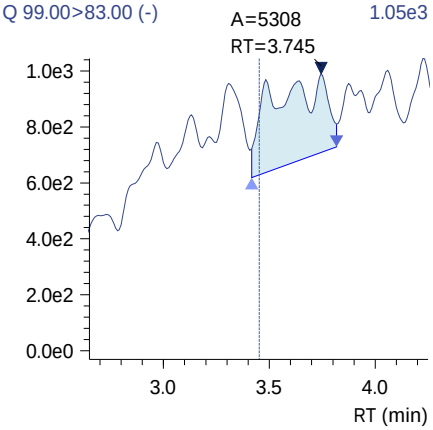
## E2400716-006

Sample ID: E2400716-006
Date Acquired: 6/24/2024 5:16:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-057.lcd
Vial: 42 | Inj. Volume: 10.0000uL | Tray: 5

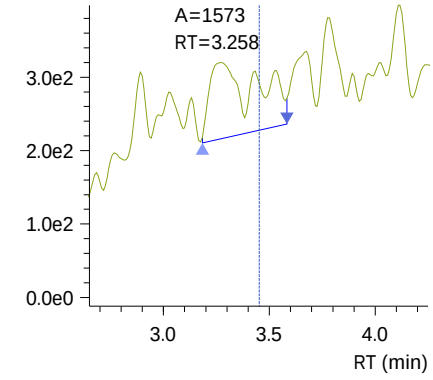
### Perchlorate

Conc 0.2540
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.05e3



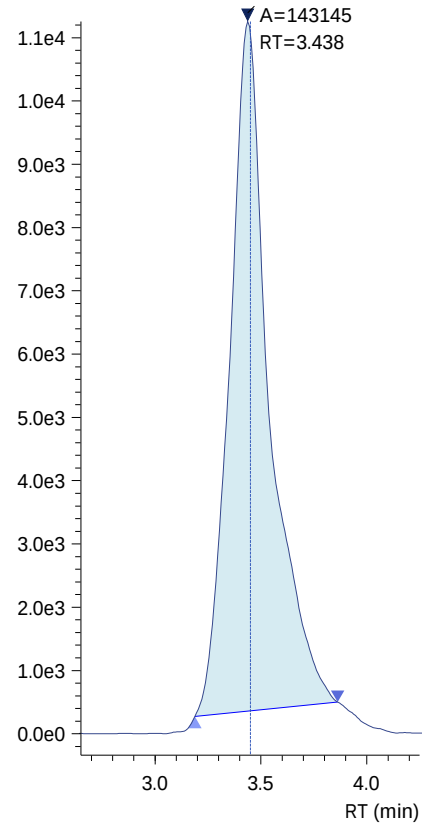

R1 101.00>85.00 (-) 3.98e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.13e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

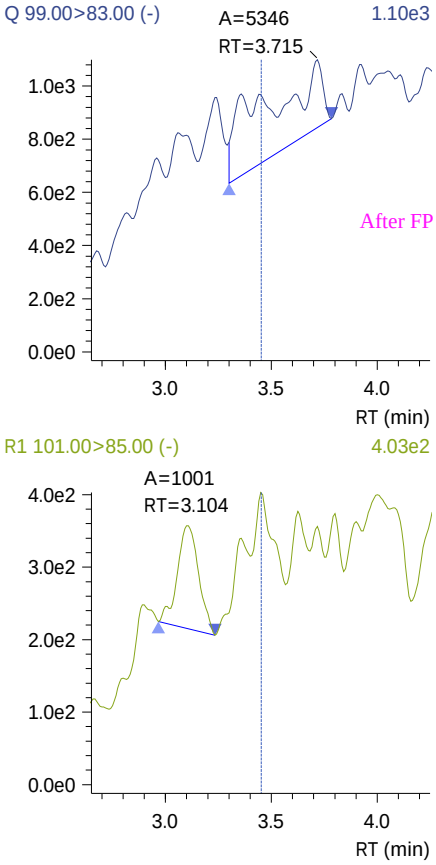
## E2400716-007

Sample ID: E2400716-007
Date Acquired: 6/24/2024 5:22:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-058.lcd
Vial: 43 | Inj. Volume: 10.0000uL | Tray: 5

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | NI | ---- | ---- | 204061 | ---- | ng/mL | 101.00<br>>85.00 | 0.00 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | M | 3.447 | 204061 | 204061 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

Conc ----
R#1 0.00 (35.24)

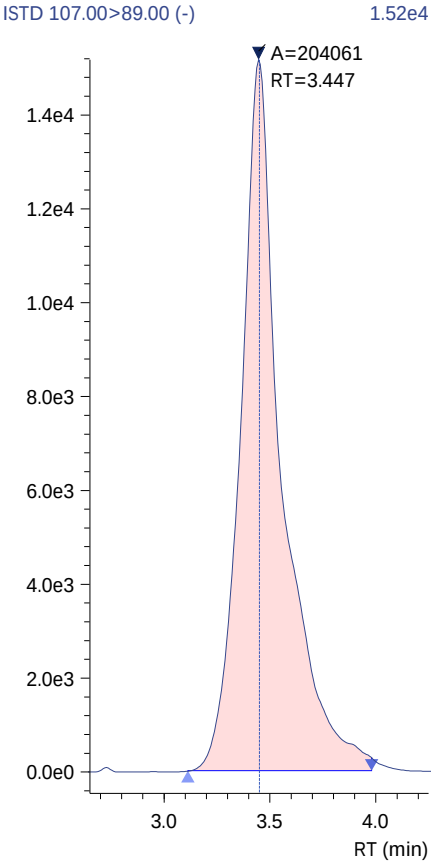






### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2024 11:58:29 AM

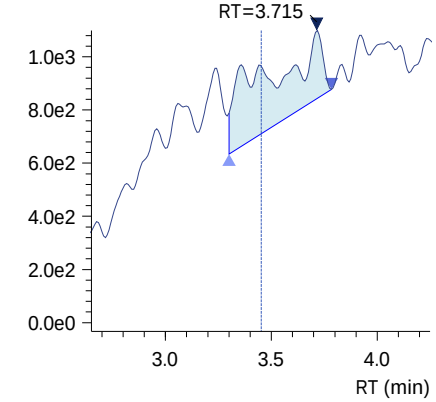
## E2400716-007

Sample ID: E2400716-007
Date Acquired: 6/24/2024 5:22:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-058.lcd
Vial: 43 | Inj. Volume: 10.0000uL | Tray: 5

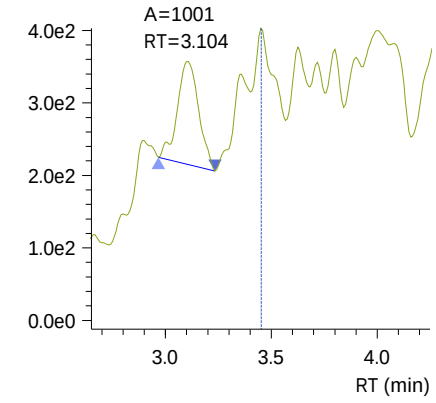
### Perchlorate

Conc 0.2005
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=5346 1.10e3



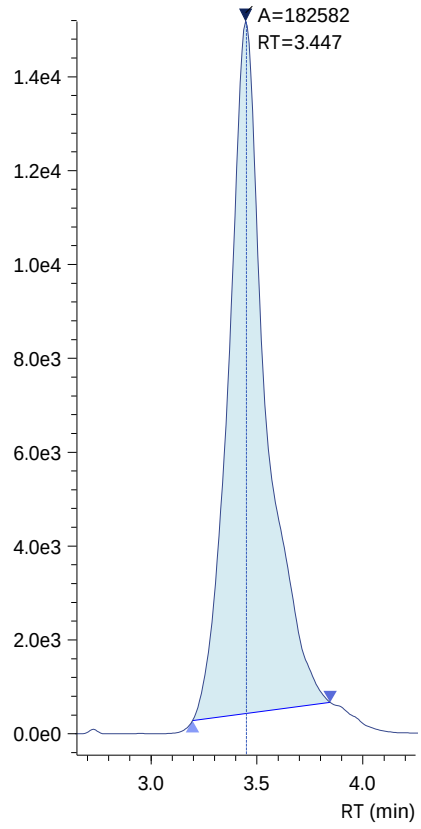

R1 101.00>85.00 (-) 4.03e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.52e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

## E2400716-008

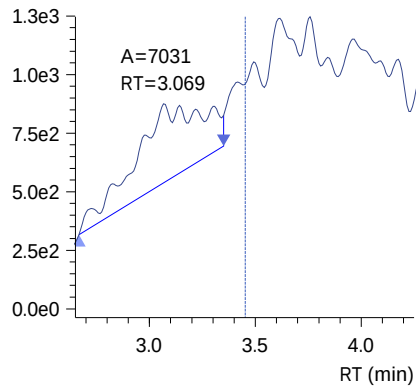
Sample ID: E2400716-008
Date Acquired: 6/24/2024 5:27:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-059.lcd
Vial: 44 | Inj. Volume: 10.0000uL | Tray: 5

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND(W/B) | ---- | ---- | 197123 | ---- | ng/mL | 101.00<br>>85.00 | 0.00 | 23.32<br>-42.73 |
| Sodium Perchlorate-18O4_IS | M | 3.447 | 197123 | 197123 | 1.0000 | ng/mL | ---- | ---- | |

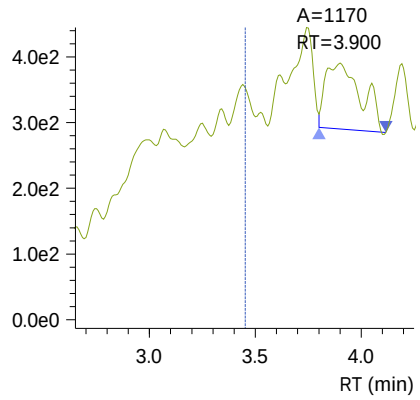
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.25e3



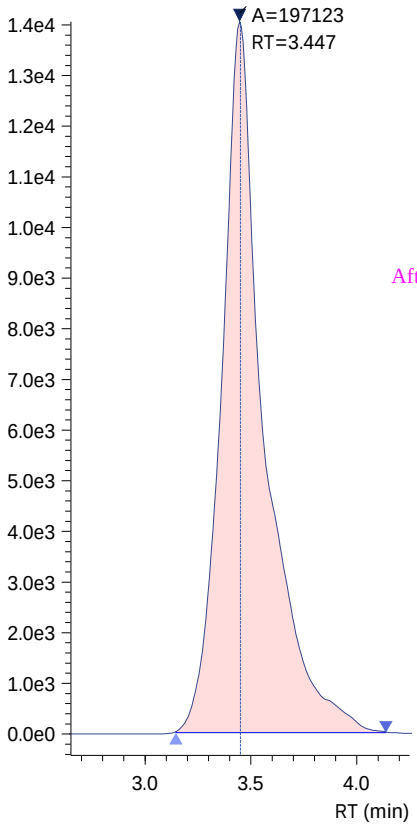

R1 101.00>85.00 (-) 4.45e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.41e4




After-BLC

# Insight Report

Printed at 6/26/2024 11:58:29 AM

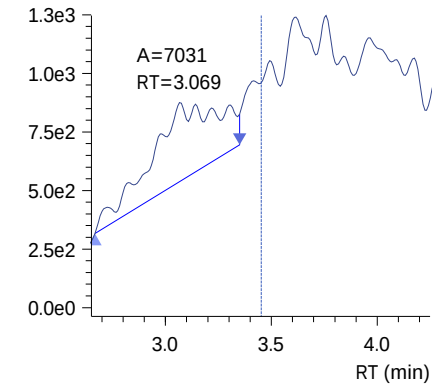
## E2400716-008

Sample ID: E2400716-008
Date Acquired: 6/24/2024 5:27:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-059.lcd
Vial: 44 | Inj. Volume: 10.0000uL | Tray: 5

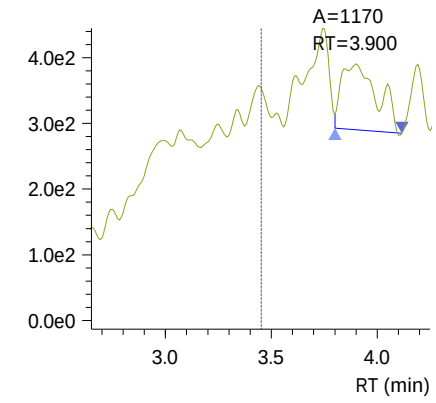
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.25e3



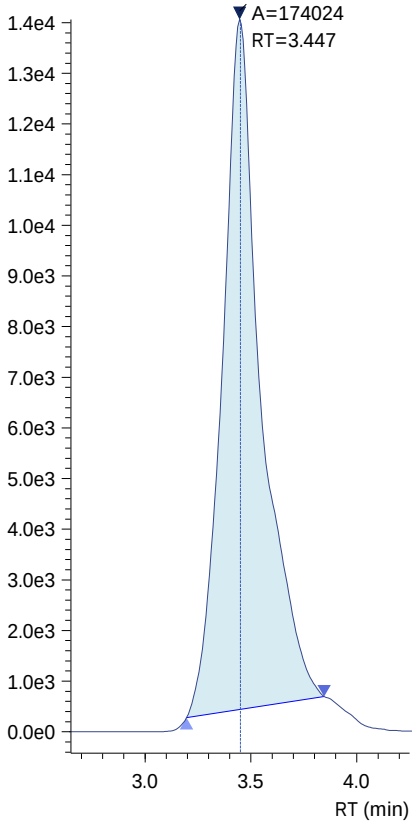

R1 101.00>85.00 (-) 4.45e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.41e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

## E2400716-009

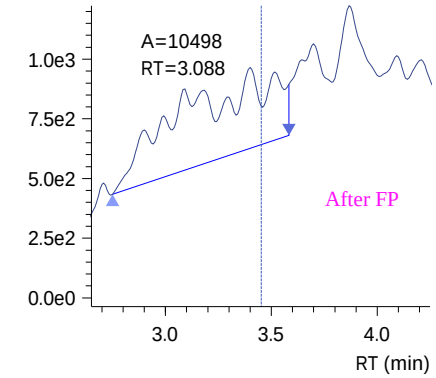
Sample ID: E2400716-009
Date Acquired: 6/24/2024 5:33:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-060.lcd
Vial: 45 | Inj. Volume: 10.0000uL | Tray: 5

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | NI | ---- | ---- | 192595 | ---- | ng/mL | 101.00<br>>85.00 | 19.44 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | M | 3.445 | 192595 | 192595 | 1.0000 | ng/mL | ---- | ---- | |

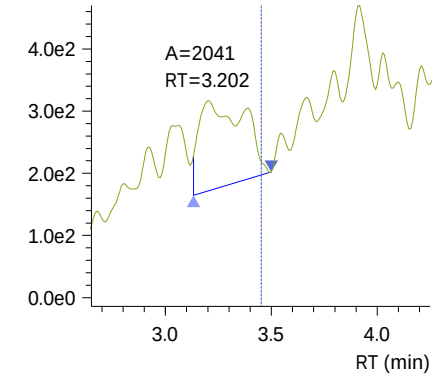
### Perchlorate

Conc ----
R#1 19.44 (35.24)

Q 99.00>83.00 (-) 1.22e3



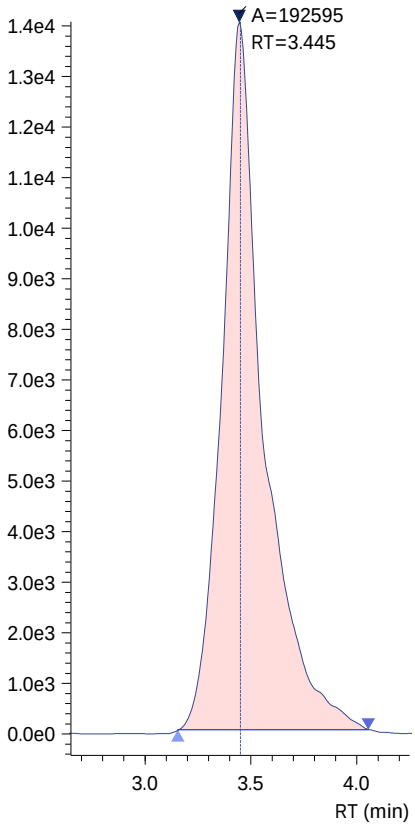

R1 101.00>85.00 (-) 4.70e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.41e4




After-BLC

# Insight Report

Printed at 6/26/2024 11:58:29 AM

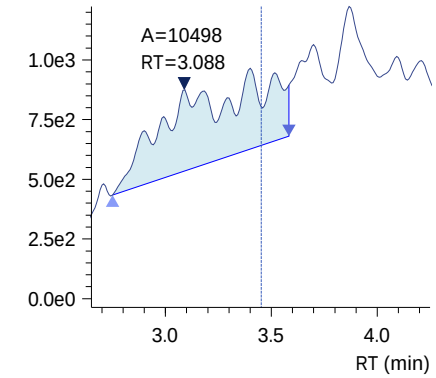
## E2400716-009

Sample ID: E2400716-009
Date Acquired: 6/24/2024 5:33:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-060.lcd
Vial: 45 | Inj. Volume: 10.0000uL | Tray: 5

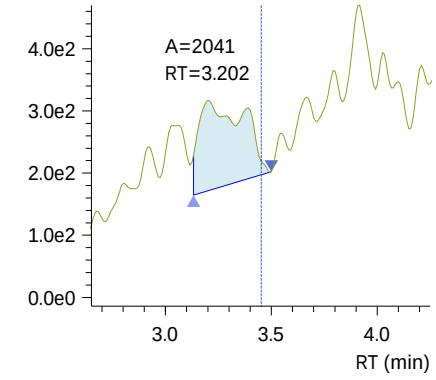
### Perchlorate

Conc 0.4214
R#1 19.44 (35.24)

Q 99.00>83.00 (-) 1.22e3



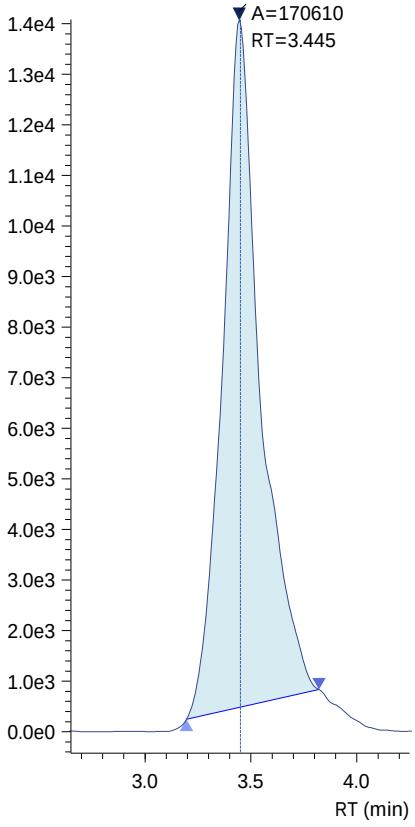

R1 101.00>85.00 (-) 4.70e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.41e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

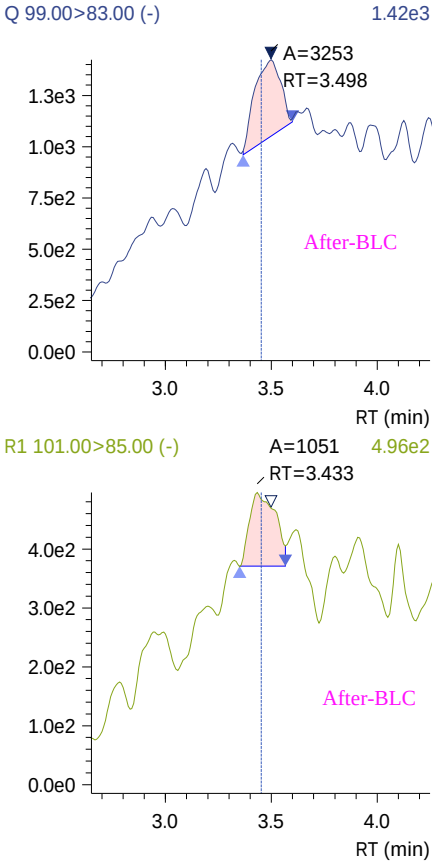
## E2400716-010

Sample ID: E2400716-010
Date Acquired: 6/24/2024 5:38:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-061.lcd
Vial: 46 | Inj. Volume: 10.0000uL | Tray: 5

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | M | 3.498 | 3253 | 189056 | 0.1178 | ng/mL | 101.00<br>>85.00 | 32.32 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | M | 3.443 | 189056 | 189056 | 1.0000 | ng/mL | ---- | ---- | |

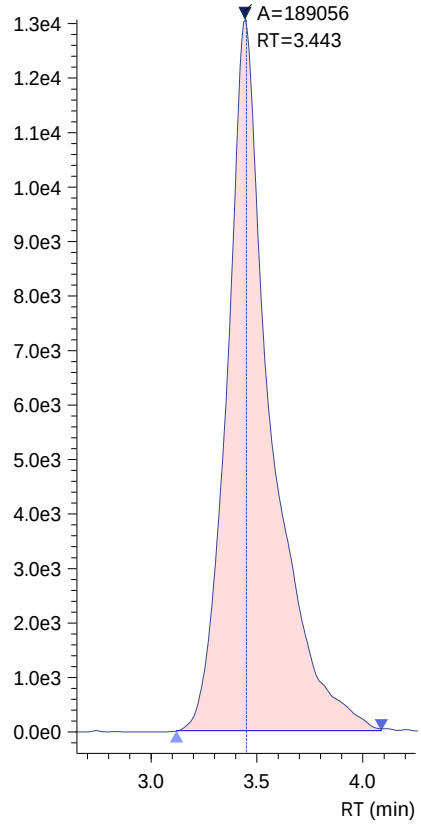
### Perchlorate

Conc 0.1178
R#1 32.32 (35.24)




### Sodium Perchlorate-18O4_IS

Conc 1.0000




After-BLC

# Insight Report

Printed at 6/26/2024 11:58:29 AM

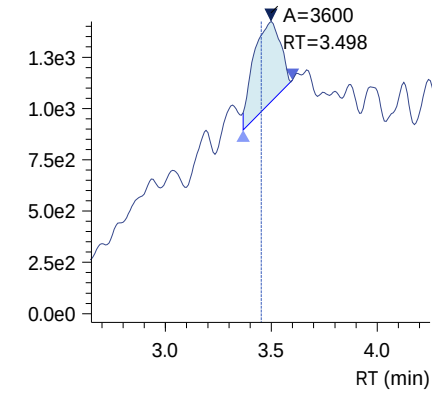
## E2400716-010

Sample ID: E2400716-010
Date Acquired: 6/24/2024 5:38:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-061.lcd
Vial: 46 | Inj. Volume: 10.0000uL | Tray: 5

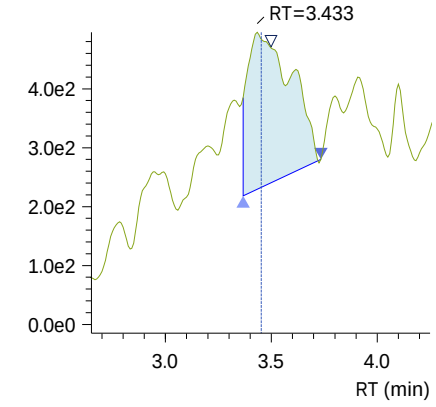
### Perchlorate

Conc 0.1452
R#1 103.85 (35.24)

Q 99.00>83.00 (-) 1.42e3



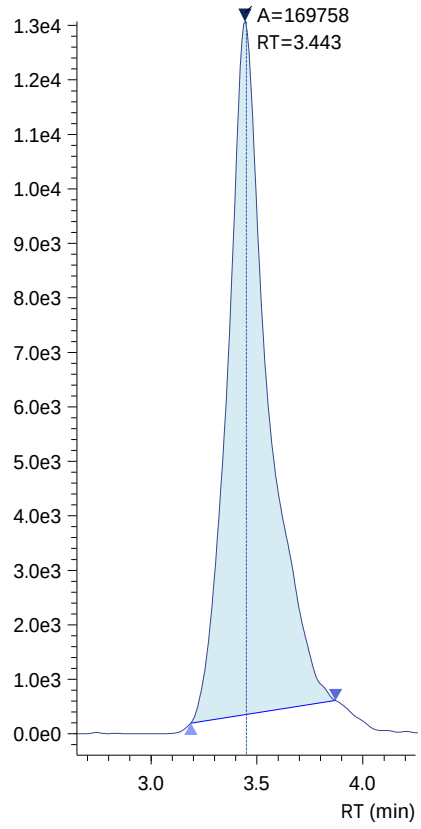

R1 101.00>85.00 (-) A=3738 4.96e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.31e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

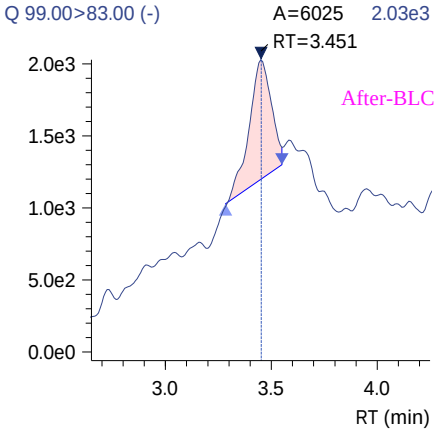
## EQ2400345-05MS

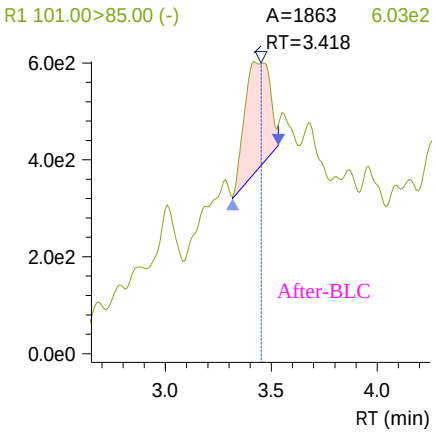
Sample ID: EQ2400345-05MS
Date Acquired: 6/24/2024 5:44:07 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-062.lcd
Vial: 47 | Inj. Volume: 10.0000uL | Tray: 5

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | M | 3.451 | 6025 | 184035 | 0.2242 | ng/mL | 101.00<br>>85.00 | 30.91 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | M | 3.446 | 184035 | 184035 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

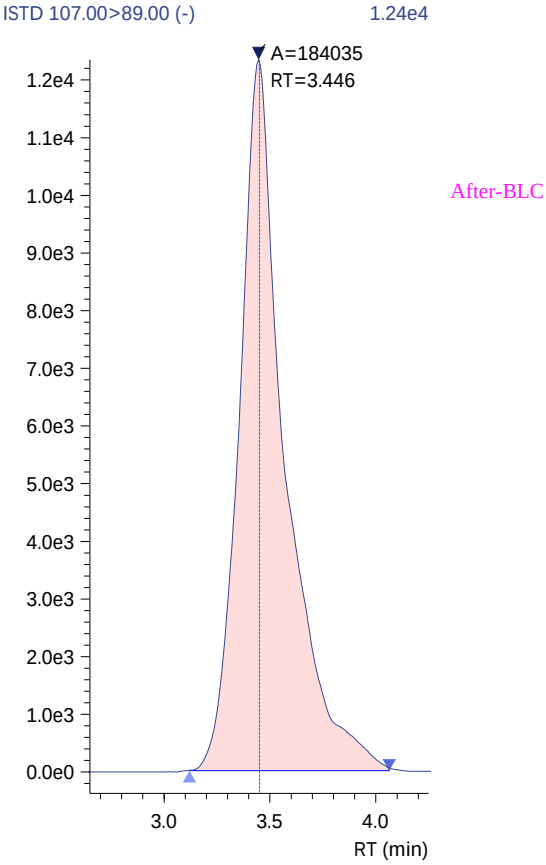
Conc 0.2242
R#1 30.91 (35.24)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2024 11:58:29 AM

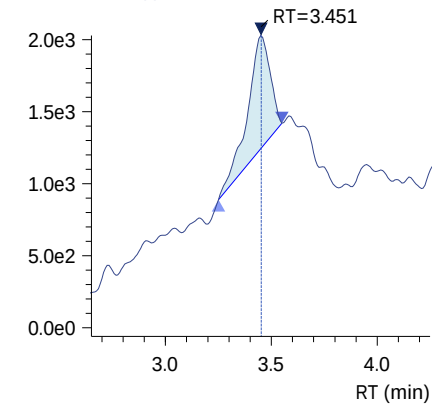
## EQ2400345-05MS

Sample ID: EQ2400345-05MS
Date Acquired: 6/24/2024 5:44:07 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-062.lcd
Vial: 47 | Inj. Volume: 10.0000uL | Tray: 5

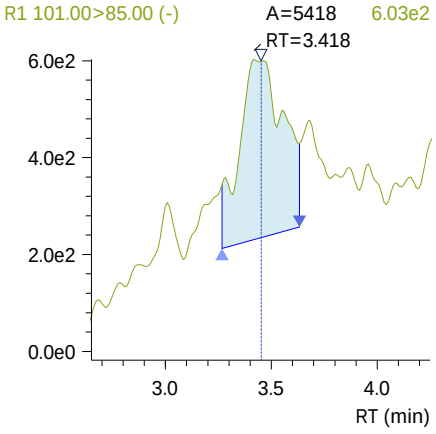
### Perchlorate

Conc 0.2489
R#1 94.04 (35.24)

Q 99.00>83.00 (-) A=5761 2.03e3



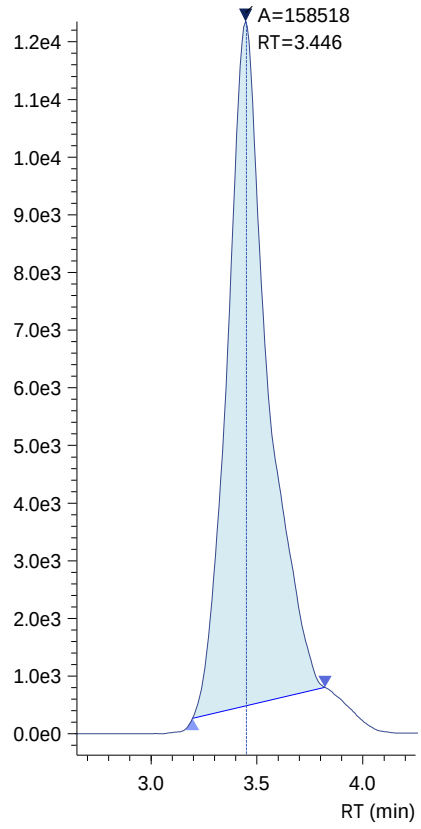

R1 101.00>85.00 (-) A=5418 6.03e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.24e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

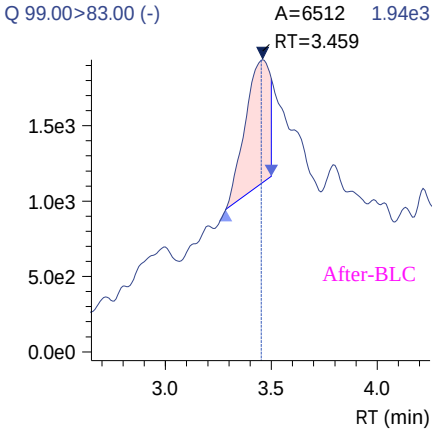
## EQ2400345-06DMS

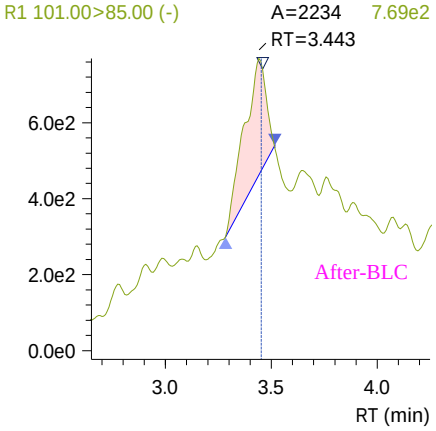
Sample ID: EQ2400345-06DMS
Date Acquired: 6/24/2024 5:49:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-063.lcd
Vial: 48 | Inj. Volume: 10.0000uL | Tray: 5

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | M | 3.459 | 6512 | 181506 | 0.2457 | ng/mL | 101.00<br>>85.00 | 34.31 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | M | 3.445 | 181506 | 181506 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

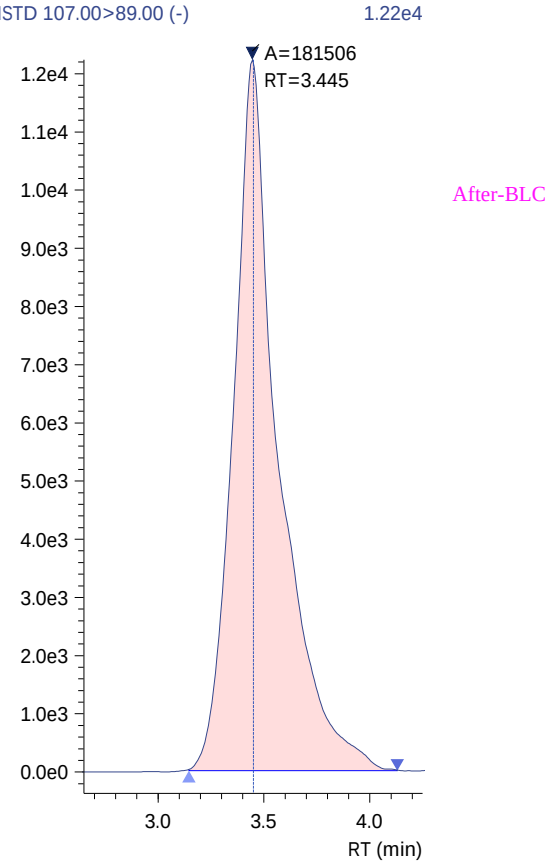
Conc 0.2457
R#1 34.31 (35.24)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2024 11:58:29 AM

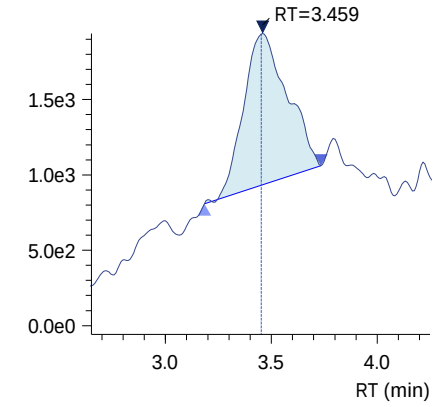
## EQ2400345-06DMS

Sample ID: EQ2400345-06DMS
Date Acquired: 6/24/2024 5:49:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-063.lcd
Vial: 48 | Inj. Volume: 10.0000uL | Tray: 5

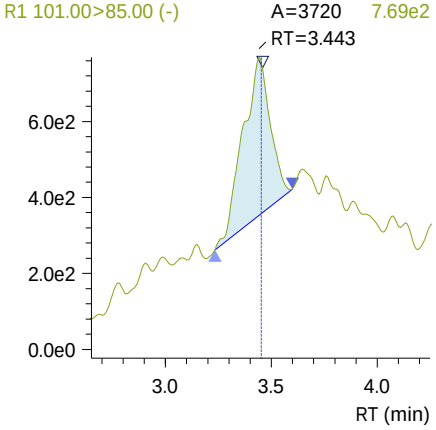
### Perchlorate

Conc 0.6049
R#1 25.89 (35.24)

Q 99.00>83.00 (-) A=14372 1.94e3



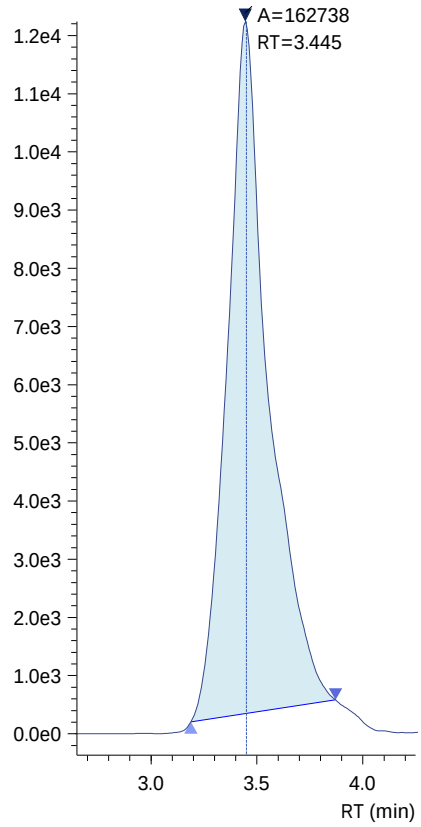

R1 101.00>85.00 (-) A=3720 7.69e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.22e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

## CCV

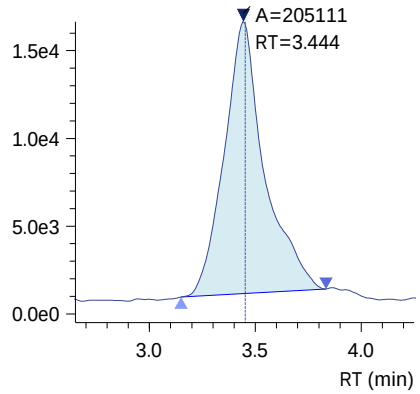
Sample ID: CCV
Date Acquired: 6/24/2024 6:00:42 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-065.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.444 | 205111 | 158268 | 8.8762 | ng/mL | 101.00<br>>85.00 | 32.67 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | M | 3.437 | 158268 | 158268 | 1.0000 | ng/mL | ---- | ---- | |

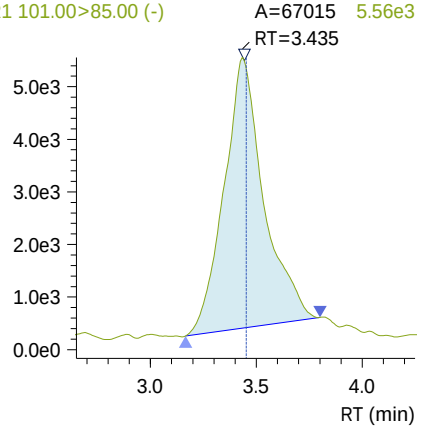
### Perchlorate

Conc 8.8762
R#1 32.67 (35.24)

Q 99.00>83.00 (-) 1.67e4



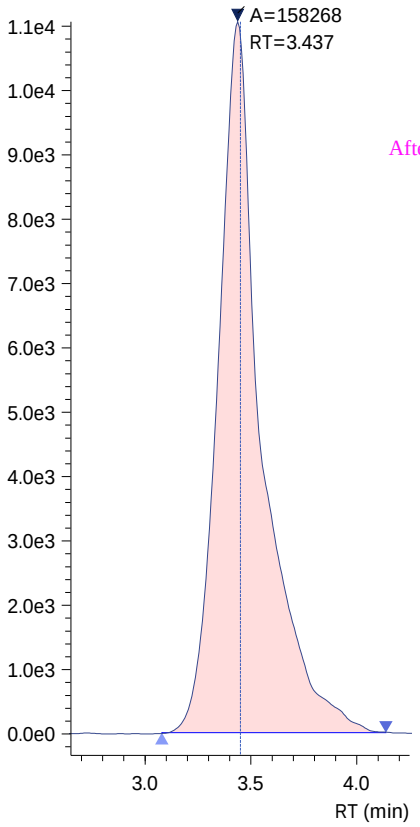

R1 101.00>85.00 (-) A=67015 5.56e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.11e4




After-BLC

# Insight Report

Printed at 6/26/2024 11:58:29 AM

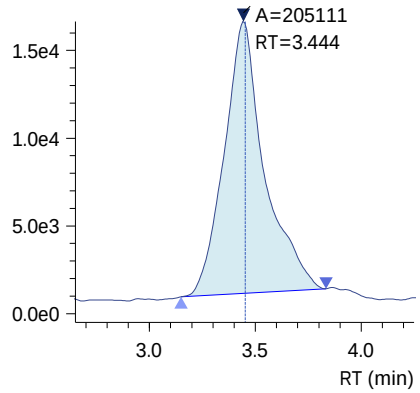
## CCV

Sample ID: CCV
Date Acquired: 6/24/2024 6:00:42 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-065.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

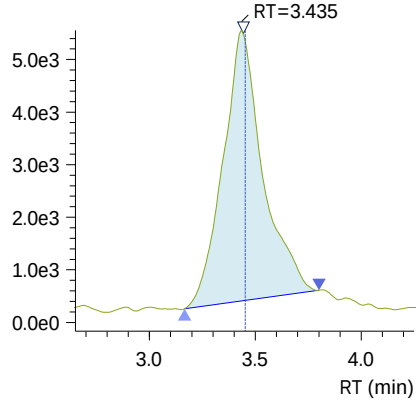
### Perchlorate

Conc 10.0611
R#1 32.67 (35.24)

Q 99.00>83.00 (-) 1.67e4



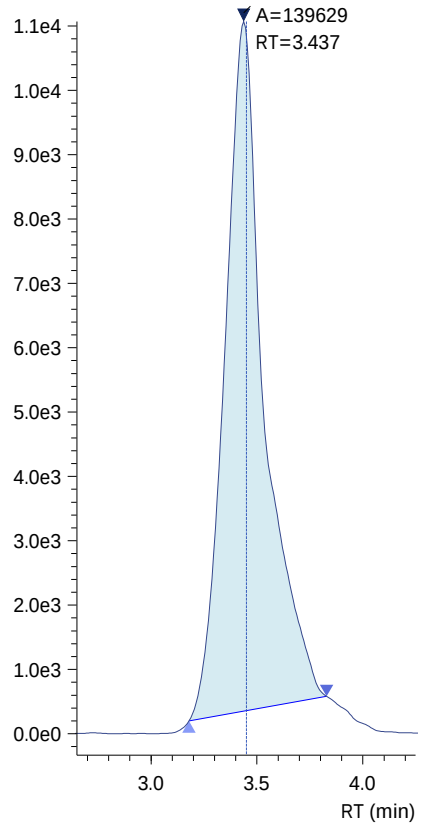

R1 101.00>85.00 (-) A=67015 5.56e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.11e4



# Insight Report

Printed at 6/26/2024 11:57:40 AM

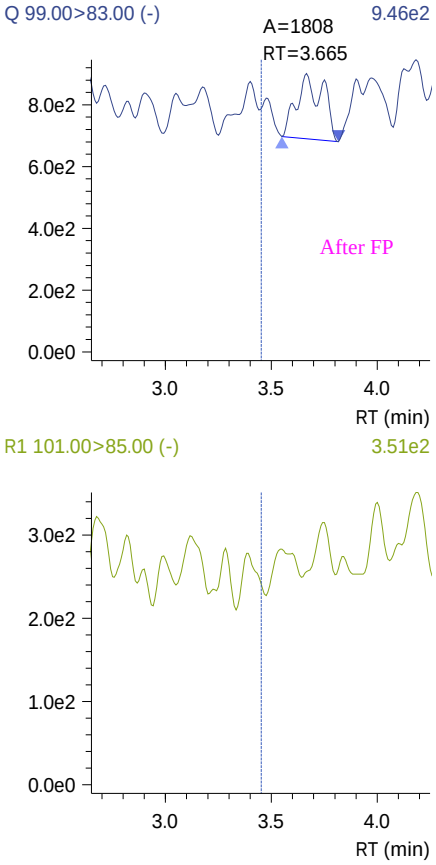
## IB

Sample ID: IB
Date Acquired: 6/24/2024 6:06:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-066.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | NI | ---- | ---- | 169695 | ---- | ng/mL | 101.00<br>>85.00 | 0.00 | 23.32<br>-42.73 |
| Sodium Perchlorate -18O4_IS | M | 3.435 | 169695 | 169695 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

Conc ----
R#1 0.00 (35.24)

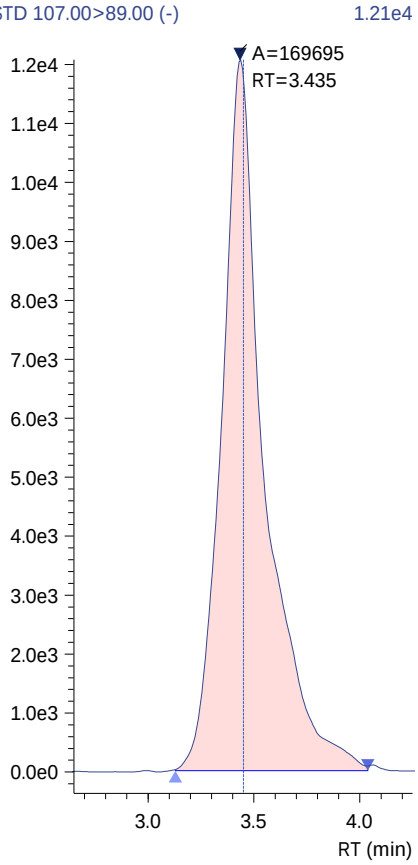






### Sodium Perchlorate-18O4_IS

Conc 1.0000




After-BLC

# Insight Report

Printed at 6/26/2024 11:58:29 AM

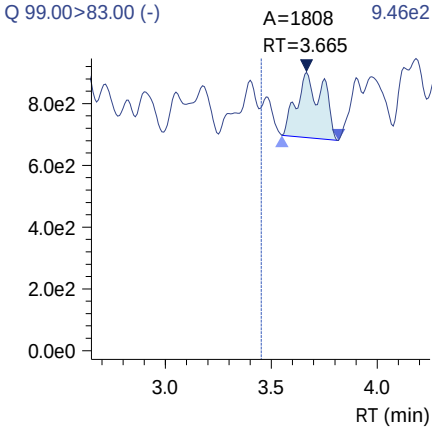
## IB

Sample ID: IB
Date Acquired: 6/24/2024 6:06:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-066.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

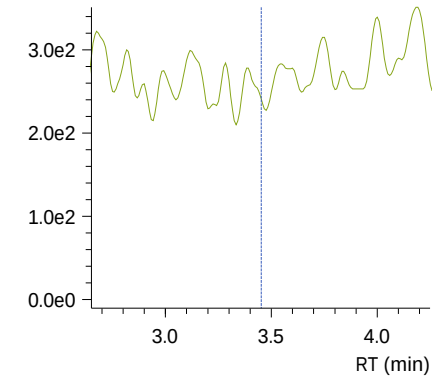
### Perchlorate

Conc 0.0824
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 9.46e2



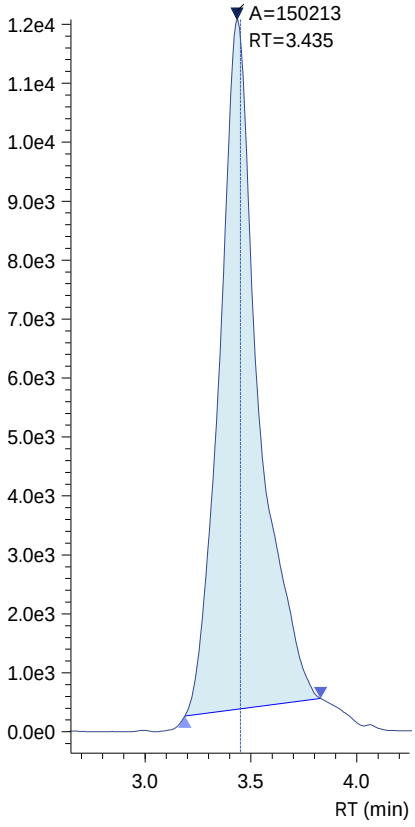

R1 101.00>85.00 (-) 3.51e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.21e4



# Insight Report

Printed at 6/26/2024 12:07:22 PM

Method File: I:\LCMS01\DATA\20240625\20240625.lcm
Project File: I:\LCMS01\DATA\20240625\20240625.damlp

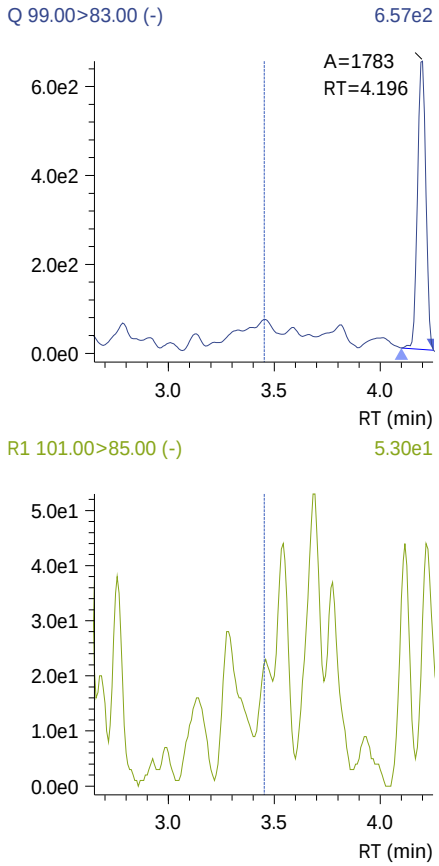
## IB

Sample ID: IB
Date Acquired: 6/25/2024 1:21:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND(W/B) | ---- | ---- | 212789 | ---- | ng/mL | 101.00<br>>85.00 | 0.00 | 23.10<br>-42.90 |
| Sodium Perchlorate-18O4_IS | M | 3.445 | 212789 | 212789 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

Conc ----
R#1 0.00 (35.24)

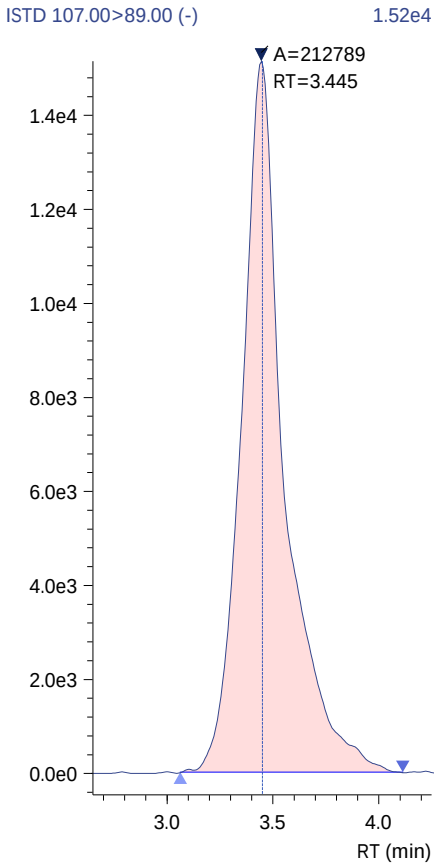






### Sodium Perchlorate-18O4_IS

Conc 1.0000




After-BLC

# Insight Report

Printed at 6/26/2024 12:08:01 PM

Method File: I:\LCMS01\DATA\20240625\20240625.lcm
Project File: I:\LCMS01\DATA\20240625\20240625.damlp

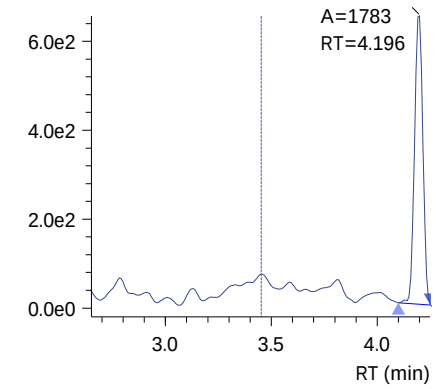
## IB

Sample ID: IB
Date Acquired: 6/25/2024 1:21:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

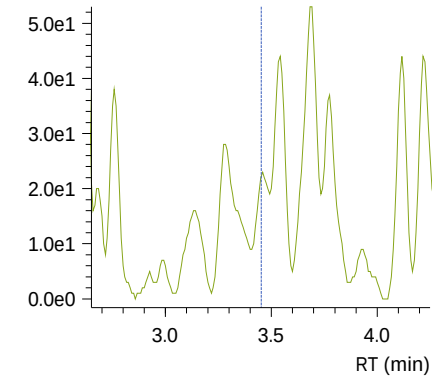
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 6.57e2



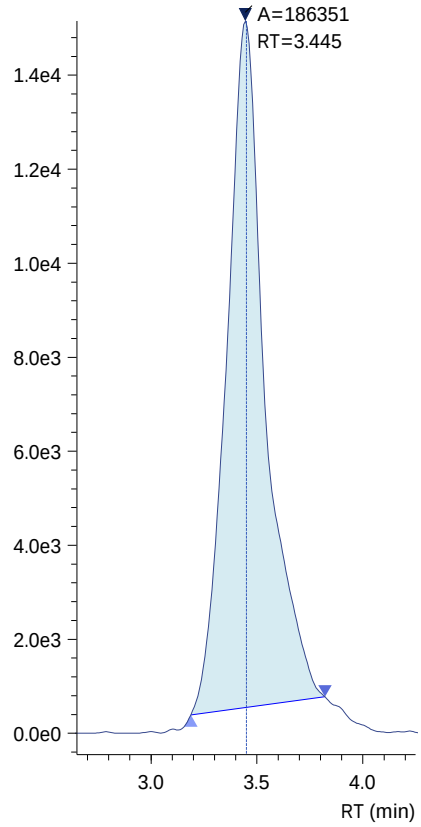

R1 101.00>85.00 (-) 5.30e1




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.52e4



# Insight Report

Printed at 6/26/2024 12:07:22 PM

## LODV

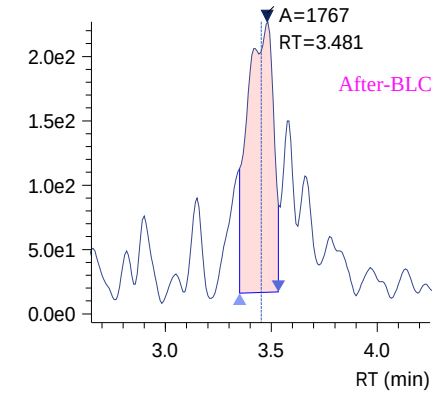
Sample ID: LODV
Date Acquired: 6/25/2024 1:27:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | M | 3.481 | 1767 | 226390 | 0.0534 | ng/mL | 101.00<br>>85.00 | 40.24 | 23.10<br>-42.90 |
| Sodium Perchlorate-18O4_IS | M | 3.443 | 22639 | 226390 | 1.0000 | ng/mL | ---- | ---- | |

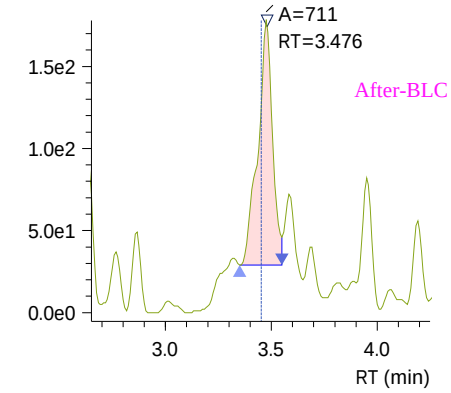
### Perchlorate

Conc 0.0534
R#1 40.24 (35.24)

Q 99.00>83.00 (-) 2.27e2



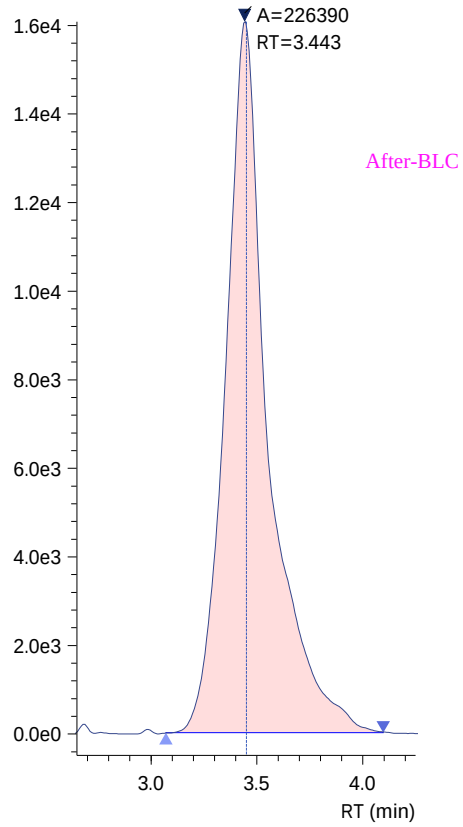

R1 101.00>85.00 (-) 1.78e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.61e4



# Insight Report

Printed at 6/26/2024 12:08:01 PM

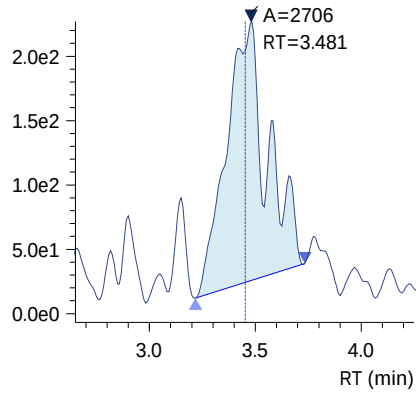
## LODV

Sample ID: LODV
Date Acquired: 6/25/2024 1:27:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

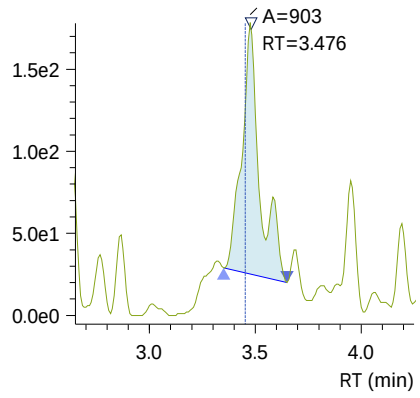
### Perchlorate

Conc 0.0918
R#1 33.36 (35.24)

Q 99.00>83.00 (-) 2.27e2



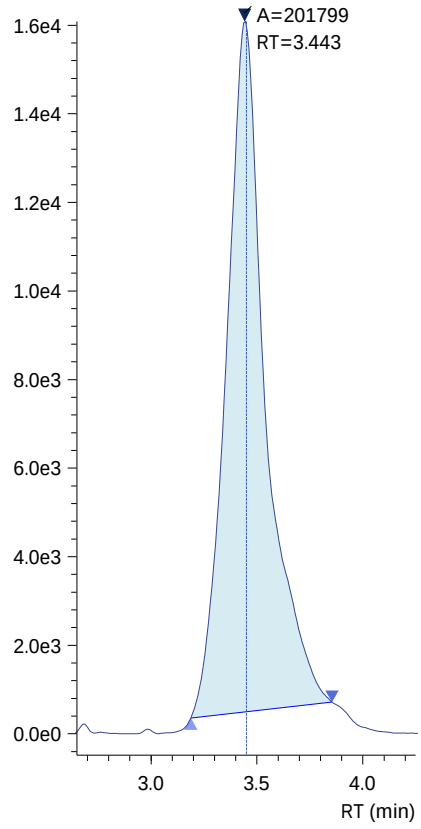

R1 101.00>85.00 (-) 1.78e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.61e4



# Insight Report

Printed at 6/26/2024 12:07:22 PM

## IB

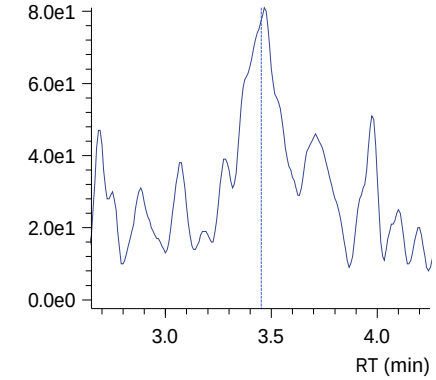
Sample ID: IB
Date Acquired: 6/25/2024 1:38:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-004.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND(W/B) | ---- | ---- | 214864 | ---- | ng/mL | 101.00<br>>85.00 | 0.00 | 23.10<br>-42.90 |
| Sodium Perchlorate-18O4_IS | M | 3.439 | 214864 | 214864 | 1.0000 | ng/mL | ---- | ---- | |

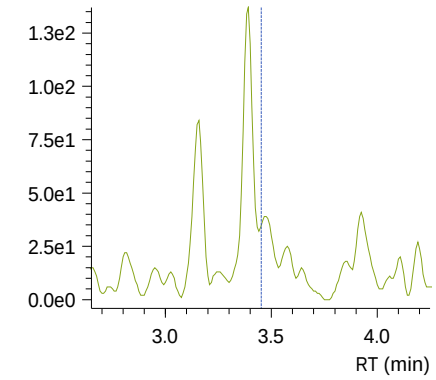
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 8.10e1



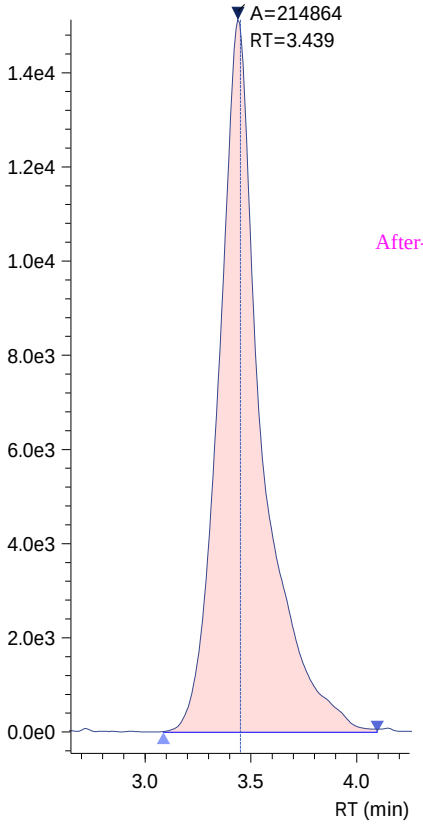

R1 101.00>85.00 (-) 1.37e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.51e4




After-BLC

# Insight Report

Printed at 6/26/2024 12:08:01 PM

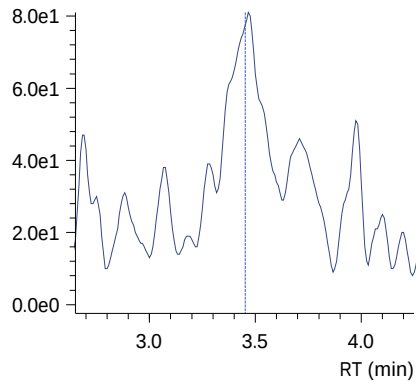
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Sample ID: IB
Date Acquired: 6/25/2024 1:38:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-004.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

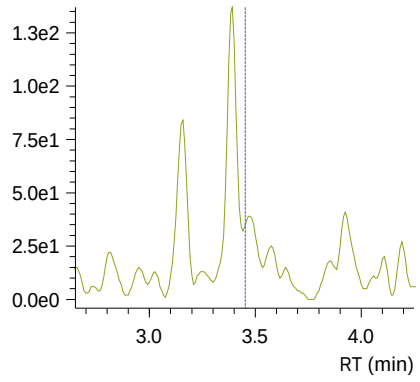
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 8.10e1



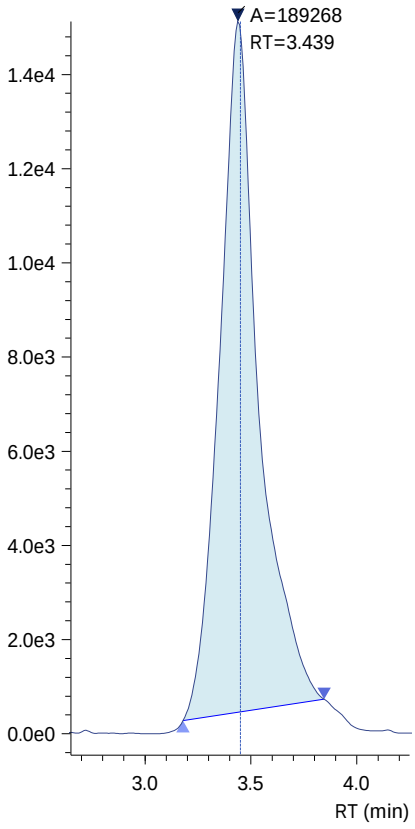

R1 101.00>85.00 (-) 1.37e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.51e4



# Insight Report

Printed at 6/26/2024 12:07:22 PM

## CCV

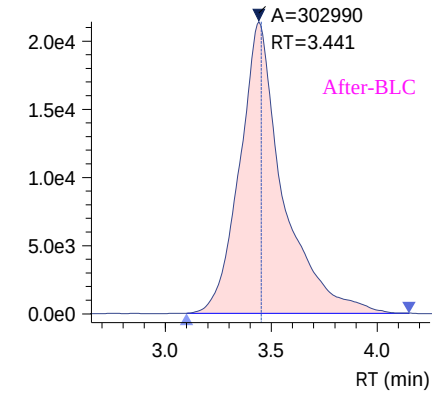
Sample ID: CCV
Date Acquired: 6/25/2024 1:44:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-005.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | M | 3.441 | 302990 | 212258 | 9.7768 | ng/mL | 101.00<br>>85.00 | 34.11 | 23.10<br>-42.90 |
| Sodium Perchlorate-18O4_IS | M | 3.438 | 212258 | 212258 | 1.0000 | ng/mL | ---- | ---- | |

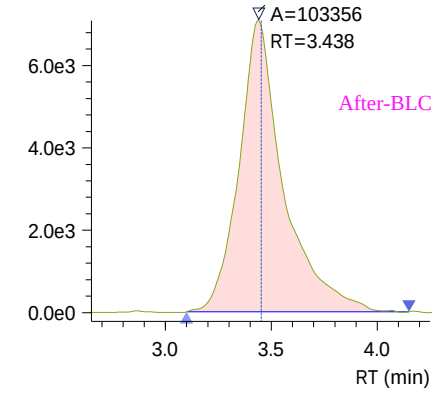
### Perchlorate

Conc 9.7768
R#1 34.11 (35.24)

Q 99.00>83.00 (-) 2.14e4



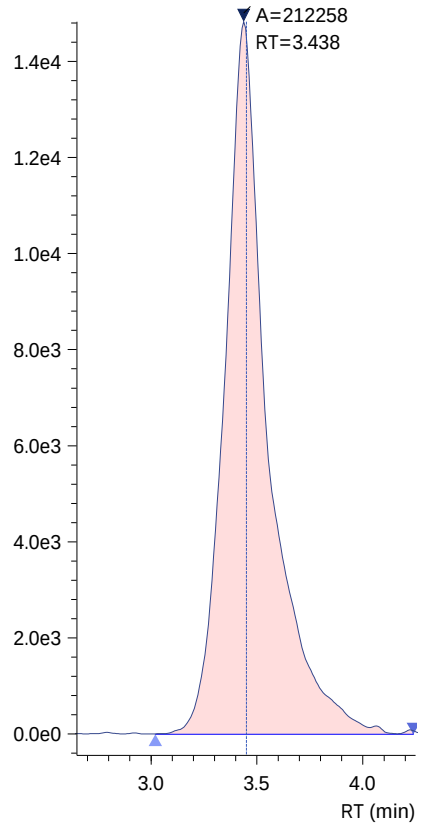

R1 101.00>85.00 (-) 7.10e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.48e4




After-BLC

# Insight Report

Printed at 6/26/2024 12:08:01 PM

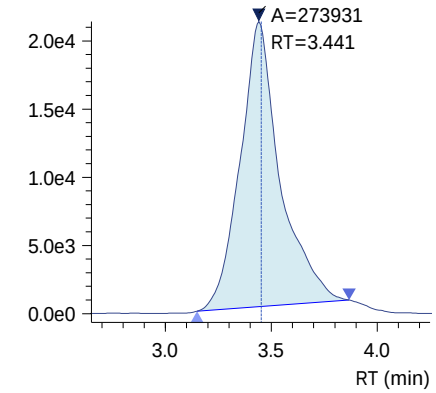
## CCV

Sample ID: CCV
Date Acquired: 6/25/2024 1:44:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-005.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

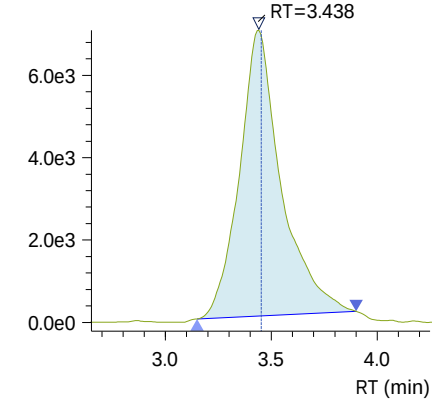
### Perchlorate

Conc 10.1561
R#1 34.72 (35.24)

Q 99.00>83.00 (-) 2.14e4



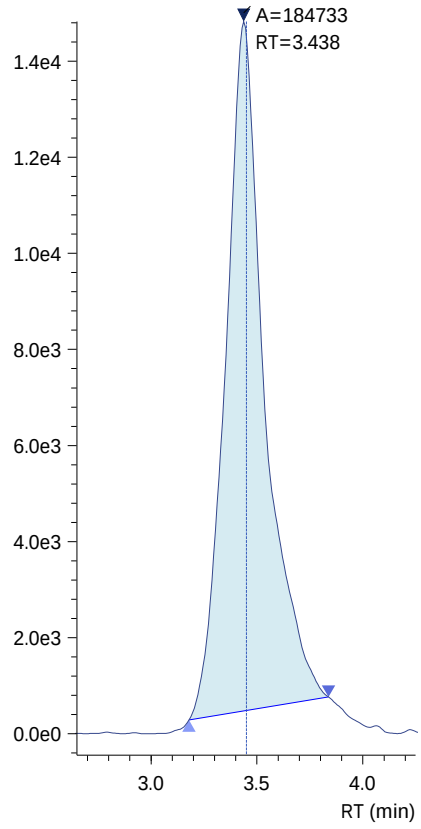

R1 101.00>85.00 (-) A=95103 7.10e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.48e4



# Insight Report

Printed at 6/26/2024 12:07:22 PM

## IB

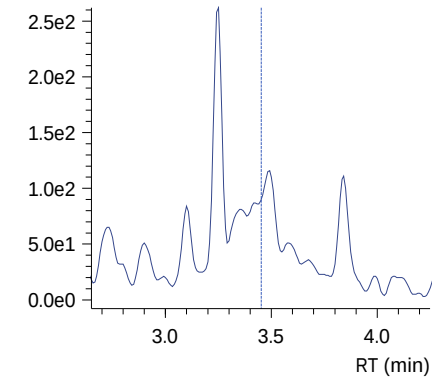
Sample ID: IB
Date Acquired: 6/25/2024 1:49:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND(W/B) | ---- | ---- | 214322 | ---- | ng/mL | 101.00<br>>85.00 | 0.00 | 23.10<br>-42.90 |
| Sodium Perchlorate-18O4_IS | M | 3.438 | 214322 | 214322 | 1.0000 | ng/mL | ---- | ---- | |

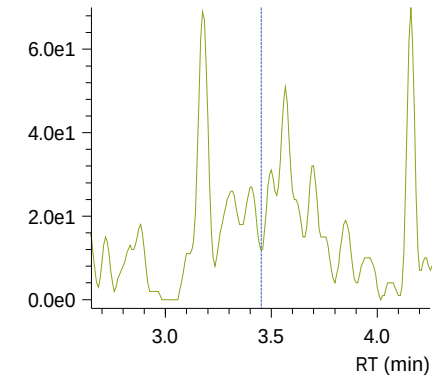
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 2.62e2



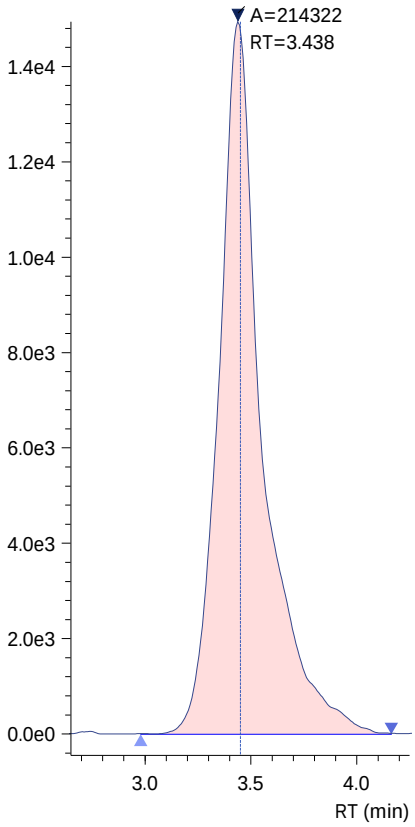

R1 101.00>85.00 (-) 7.00e1




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.49e4




After-BLC

# Insight Report

Printed at 6/26/2024 12:08:01 PM

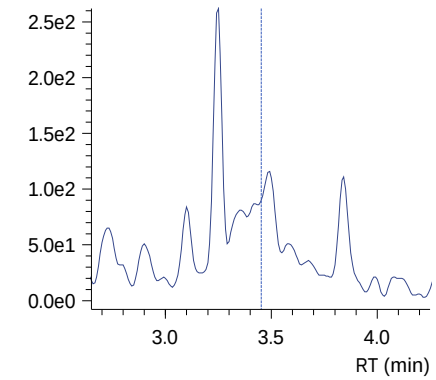
## IB

Sample ID: IB
Date Acquired: 6/25/2024 1:49:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

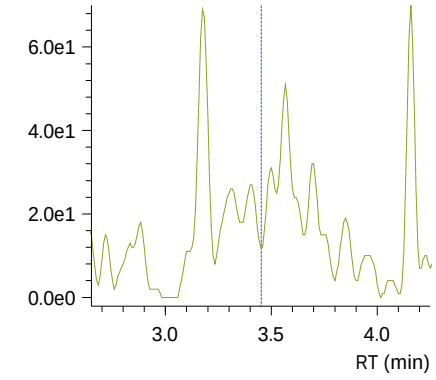
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 2.62e2



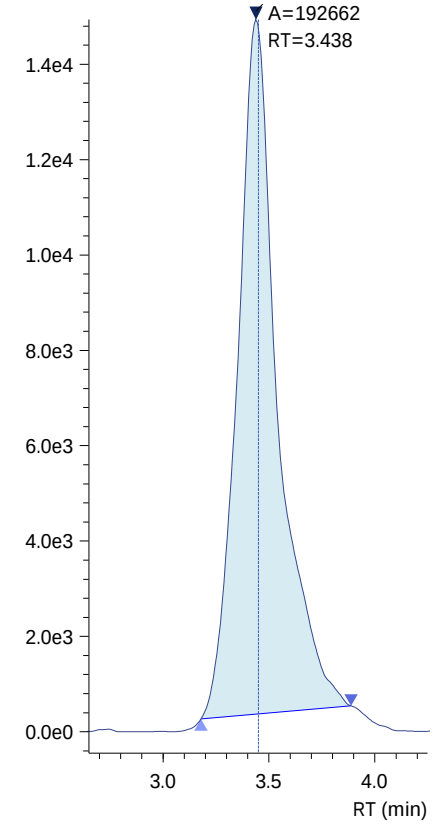

R1 101.00>85.00 (-) 7.00e1




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.49e4



# Insight Report

Printed at 6/26/2024 12:07:22 PM

## CCV

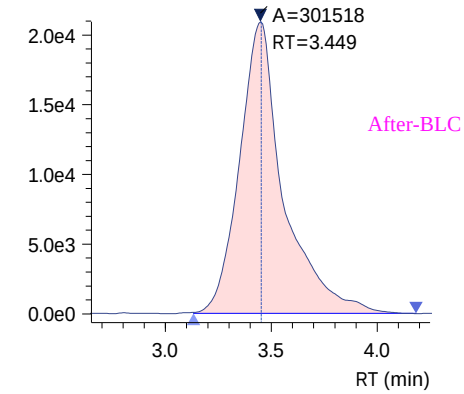
Sample ID: CCV
Date Acquired: 6/25/2024 2:50:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | M | 3.449 | 3015<br>18 | 203781 | 10.1<br>340 | ng/mL | 101.00<br>>85.00 | 33.73 | 23.10<br>-42.90 |
| Sodium Perchlorate-18O4_IS | M | 3.439 | 2037<br>81 | 203781 | 1.0000 | ng/mL | ---- | ---- | |

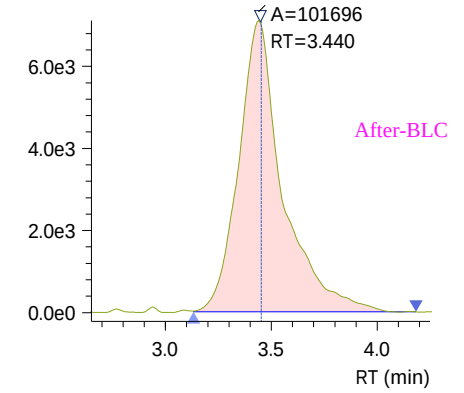
### Perchlorate

Conc 10.1340
R#1 33.73 (35.24)

Q 99.00>83.00 (-) 2.10e4



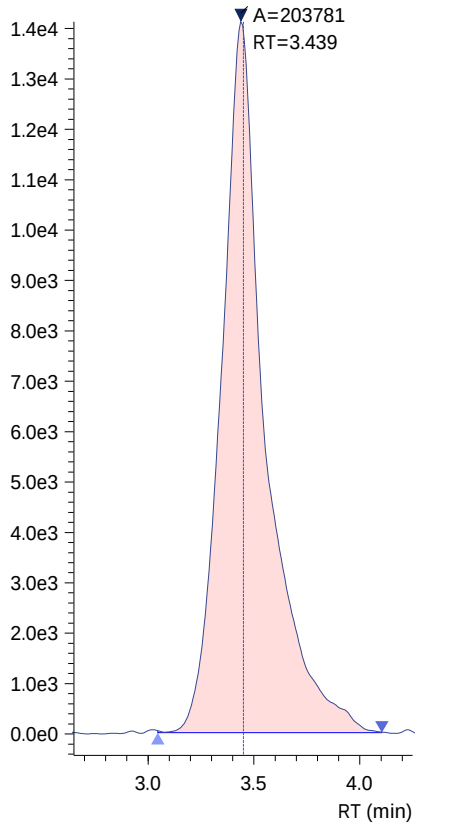

R1 101.00>85.00 (-) 7.12e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.41e4



# Insight Report

Printed at 6/26/2024 12:08:01 PM

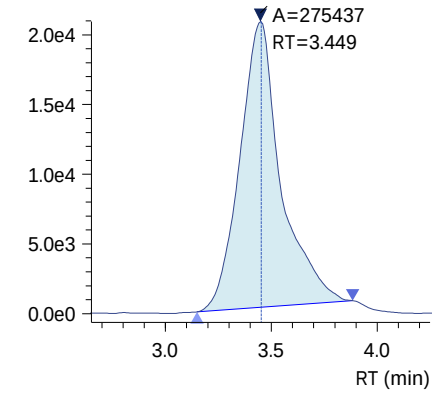
## CCV

Sample ID: CCV
Date Acquired: 6/25/2024 2:50:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

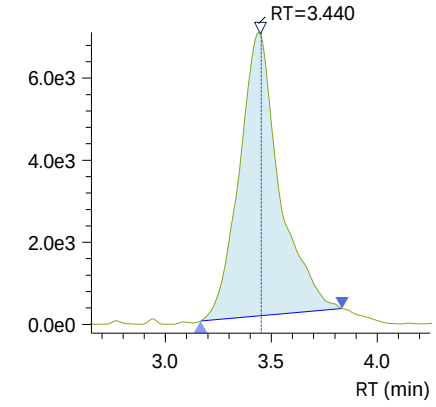
### Perchlorate

Conc 10.3518
R#1 33.00 (35.24)

Q 99.00>83.00 (-) 2.10e4



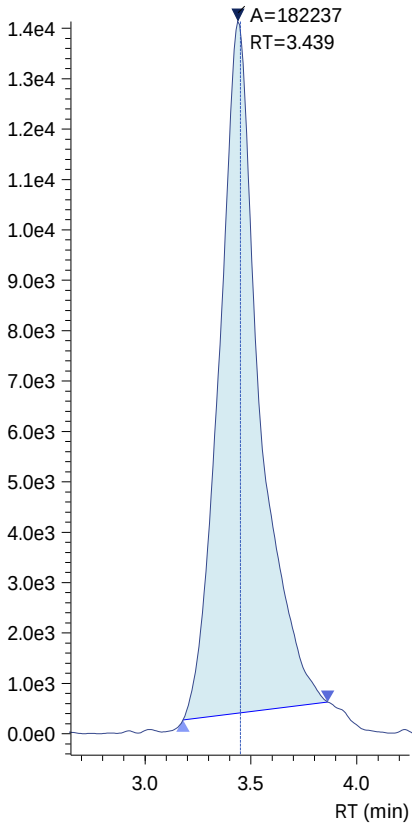

R1 101.00>85.00 (-) A=90906 7.12e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.41e4



# Insight Report

Printed at 6/26/2024 12:07:22 PM

## IB

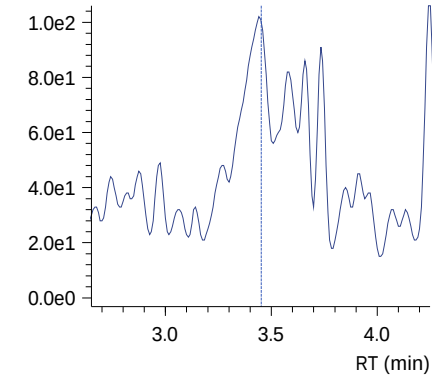
Sample ID: IB
Date Acquired: 6/25/2024 2:56:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-018.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND(W/B) | ---- | ---- | 204349 | ---- | ng/mL | 101.00<br>>85.00 | 0.00 | 23.10<br>-42.90 |
| Sodium Perchlorate-18O4_IS | M | 3.435 | 204349 | 204349 | 1.0000 | ng/mL | ---- | ---- | |

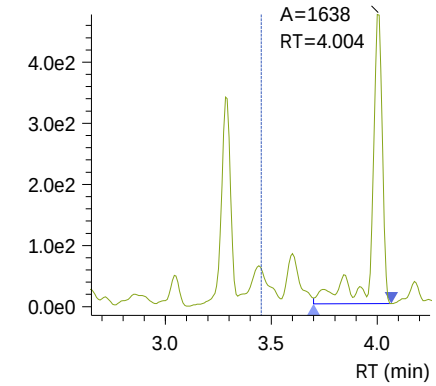
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.06e2



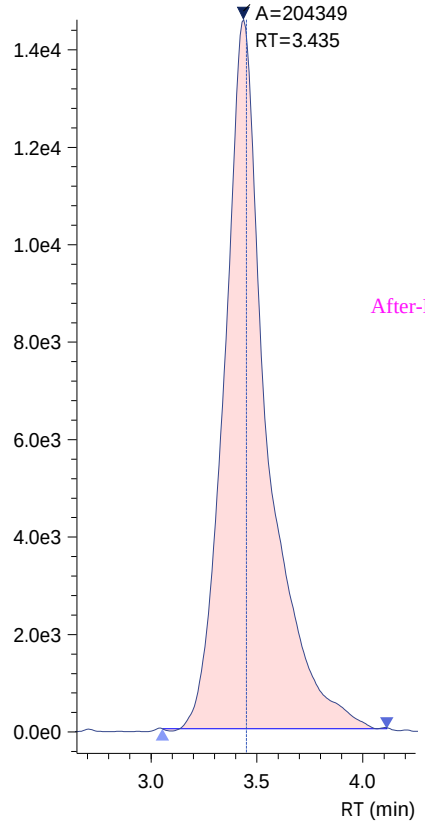

R1 101.00>85.00 (-) 4.78e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.46e4




After-BLC

# Insight Report

Printed at 6/26/2024 12:08:01 PM

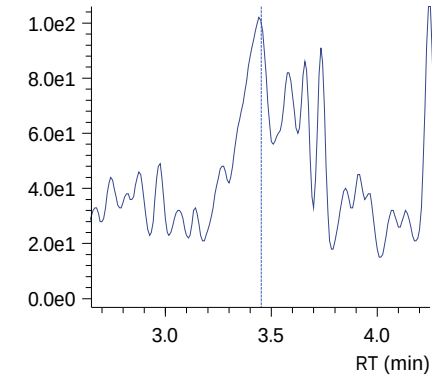
## IB

Sample ID: IB
Date Acquired: 6/25/2024 2:56:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-018.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

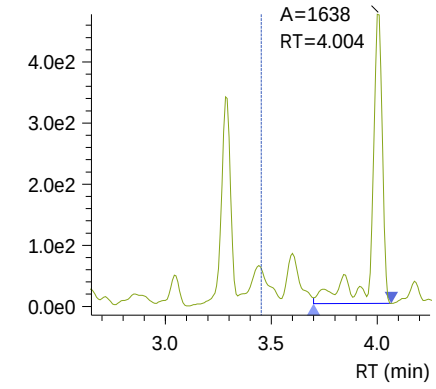
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.06e2



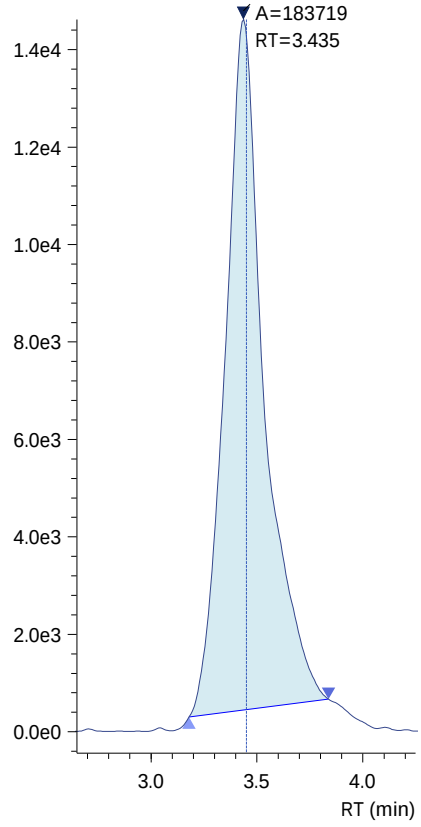

R1 101.00>85.00 (-) 4.78e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.46e4



# Insight Report

Printed at 6/26/2024 12:07:22 PM

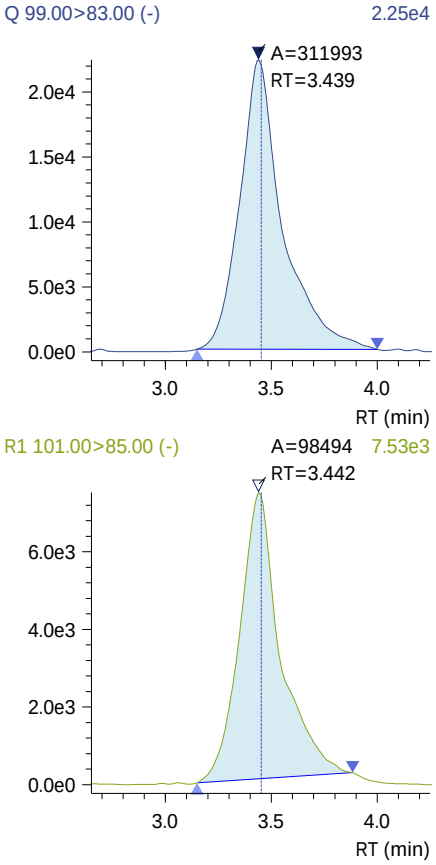
## CCV

Sample ID: CCV
Date Acquired: 6/25/2024 3:46:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-027.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.439 | 311993 | 218182 | 9.7940 | ng/mL | 101.00 >85.00 | 31.57 | 23.10 -42.90 |
| Sodium Perchlorate-18O4_IS | M | 3.439 | 218182 | 218182 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

Conc 9.7940
R#1 31.57 (35.24)

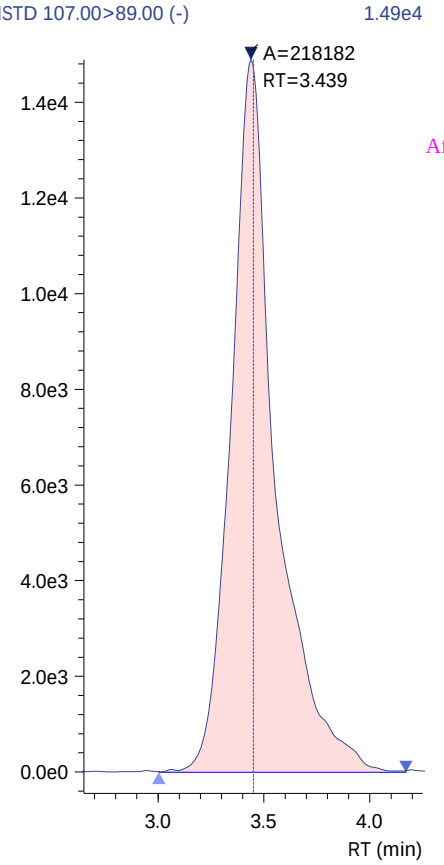






### Sodium Perchlorate-18O4_IS

Conc 1.0000




After-BLC

# Insight Report

Printed at 6/26/2024 12:08:01 PM

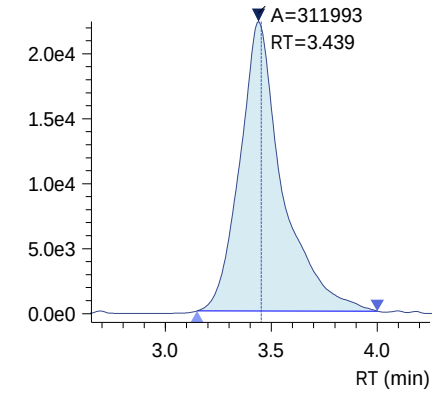
## CCV

Sample ID: CCV
Date Acquired: 6/25/2024 3:46:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-027.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

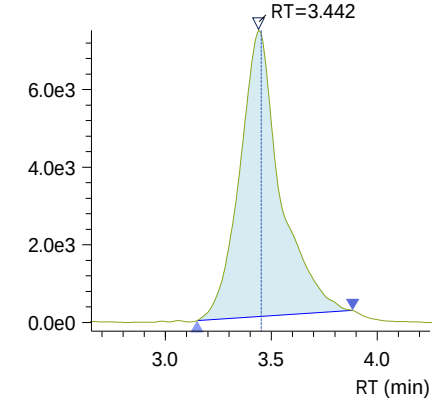
### Perchlorate

Conc 11.0247
R#1 31.57 (35.24)

Q 99.00>83.00 (-) 2.25e4



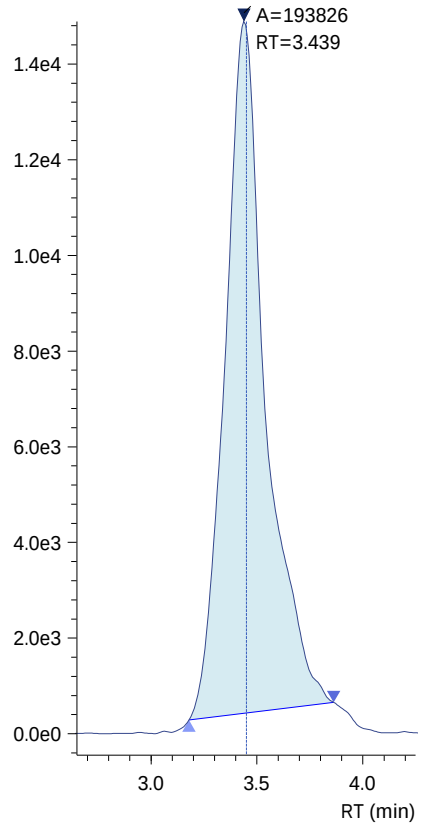

R1 101.00>85.00 (-) A=98494 7.53e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.49e4



# Insight Report

Printed at 6/26/2024 12:07:22 PM

## IB

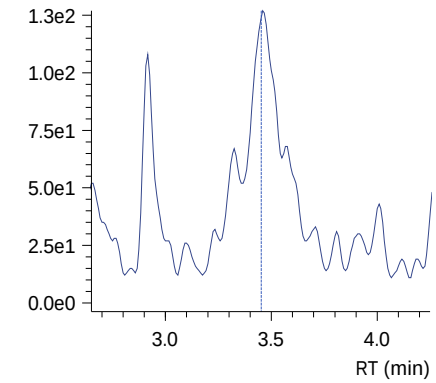
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Date Acquired: 6/25/2024 3:51:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-028.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND(W/B) | ---- | ---- | 226021 | ---- | ng/mL | 101.00<br>>85.00 | 0.00 | 23.10<br>-42.90 |
| Sodium Perchlorate-18O4_IS | M | 3.436 | 226021 | 226021 | 1.0000 | ng/mL | ---- | ---- | |

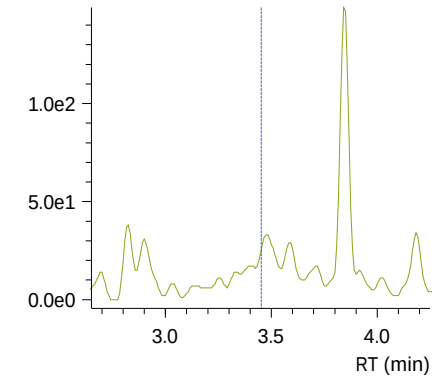
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.27e2



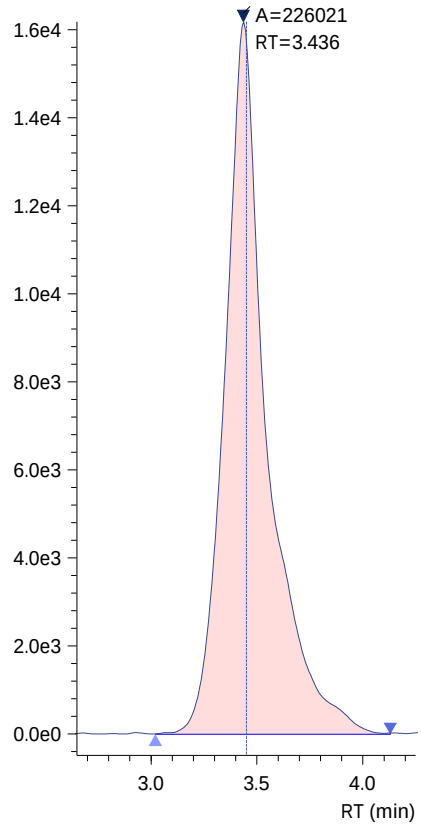

R1 101.00>85.00 (-) 1.49e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.62e4




After-BLC

# Insight Report

Printed at 6/26/2024 12:08:01 PM

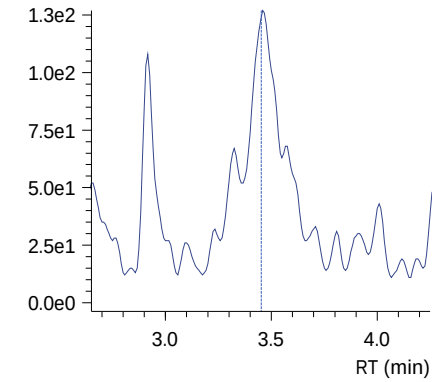
## IB

Sample ID: IB
Date Acquired: 6/25/2024 3:51:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-028.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

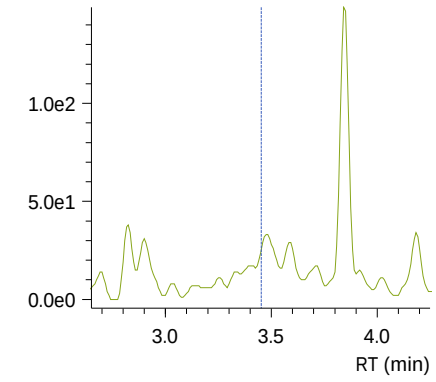
### Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.27e2



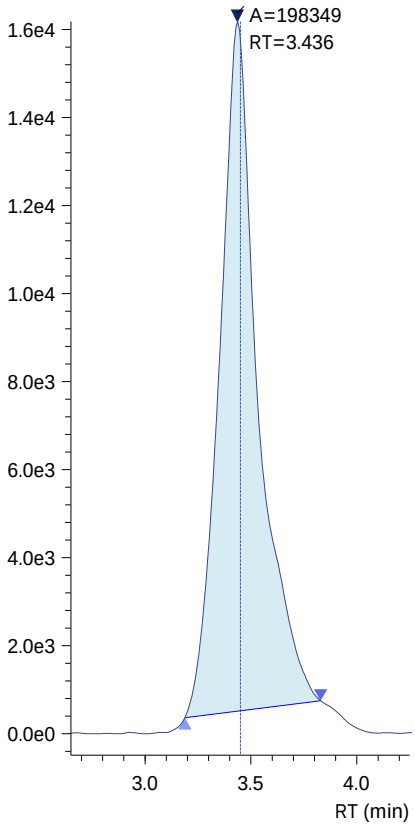

R1 101.00>85.00 (-) 1.49e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.62e4



# Insight Report

Printed at 6/26/2024 12:07:22 PM

## E2400716-001x1000

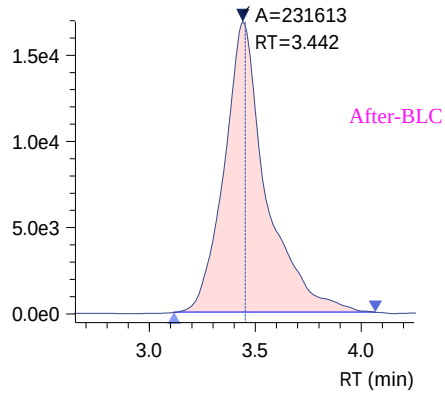
Sample ID: E2400716-001x1000
Date Acquired: 6/25/2024 3:07:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-020.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 6

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | M | 3.442 | 2316<br>13 | 201239 | 7.8828 | ng/mL | 101.00<br>>85.00 | 35.35 | 23.10<br>-42.90 |
| Sodium Perchlorate-18O4_IS | M | 3.440 | 2012<br>39 | 201239 | 1.0000 | ng/mL | ---- | ---- | |

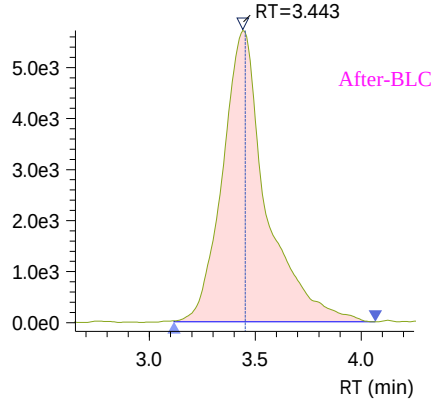
### Perchlorate

Conc 7.8828
R#1 35.35 (35.24)

Q 99.00>83.00 (-) 1.69e4



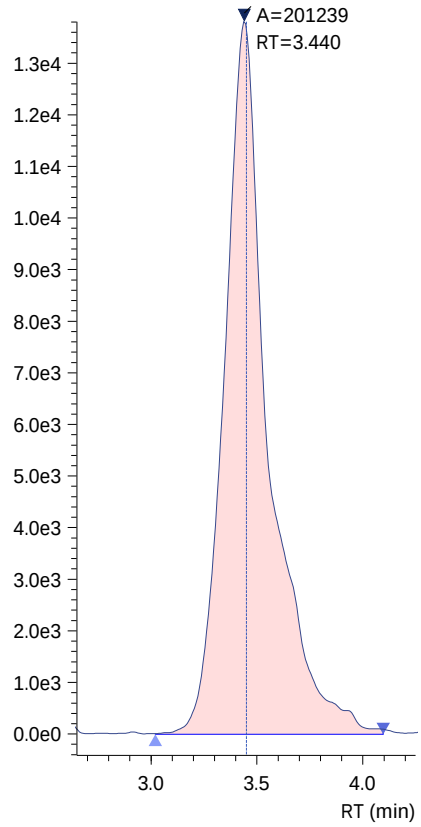

R1 101.00>85.00 (-) A=81881 5.73e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.38e4



# Insight Report

Printed at 6/26/2024 12:08:01 PM

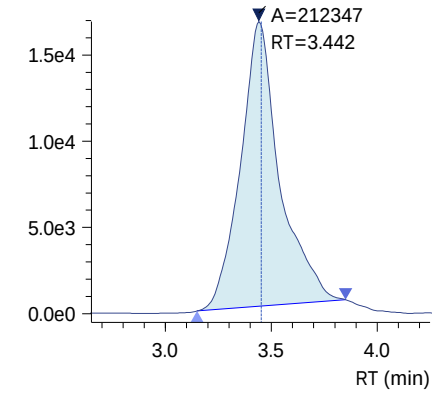
## E2400716-001x1000

Sample ID: E2400716-001x1000
Date Acquired: 6/25/2024 3:07:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-020.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 6

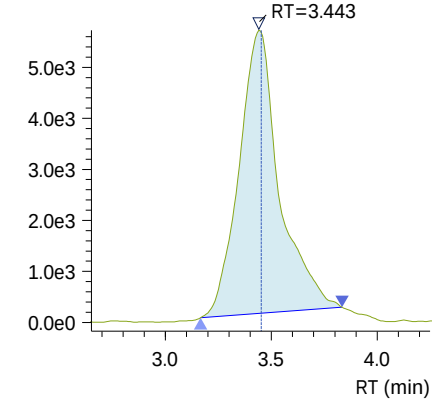
### Perchlorate

Conc 8.2083
R#1 34.43 (35.24)

Q 99.00>83.00 (-) 1.69e4



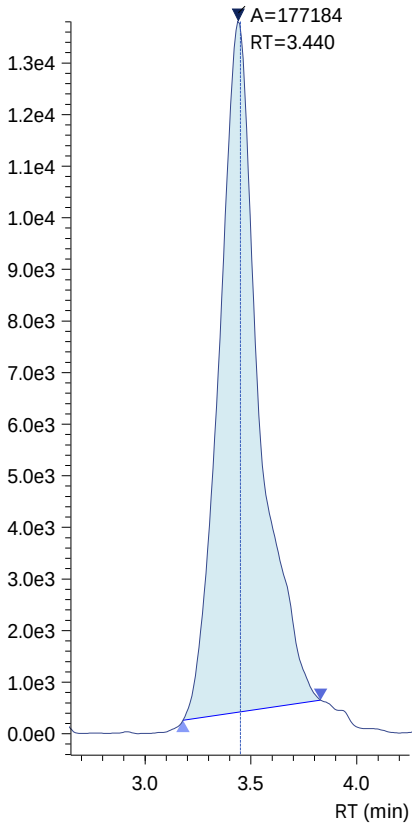

R1 101.00>85.00 (-) A=73107 5.73e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.38e4



# Insight Report

Printed at 6/26/2024 12:07:22 PM

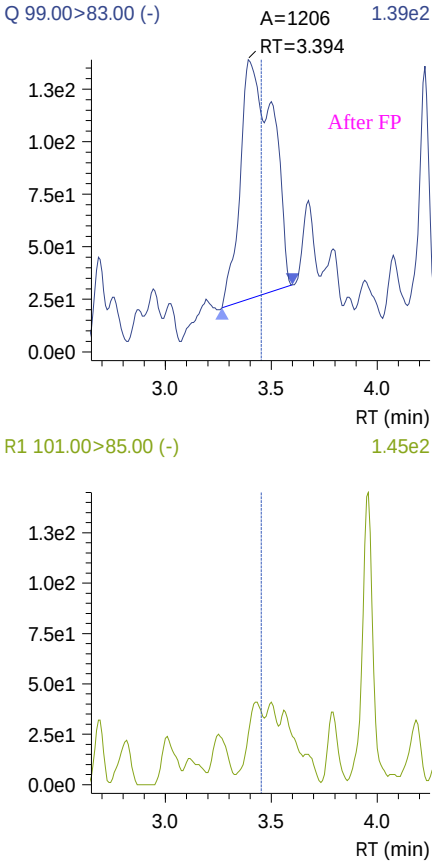
## E2400716-003x10

Sample ID: E2400716-003x10
Date Acquired: 6/25/2024 3:12:48 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-021.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 6

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | NI | ---- | ---- | 266478 | ---- | ng/mL | 101.00<br>>85.00 | 0.00 | 23.10<br>-42.90 |
| Sodium Perchlorate-18O4_IS | M | 3.443 | 266478 | 266478 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

Conc ----
R#1 0.00 (35.24)

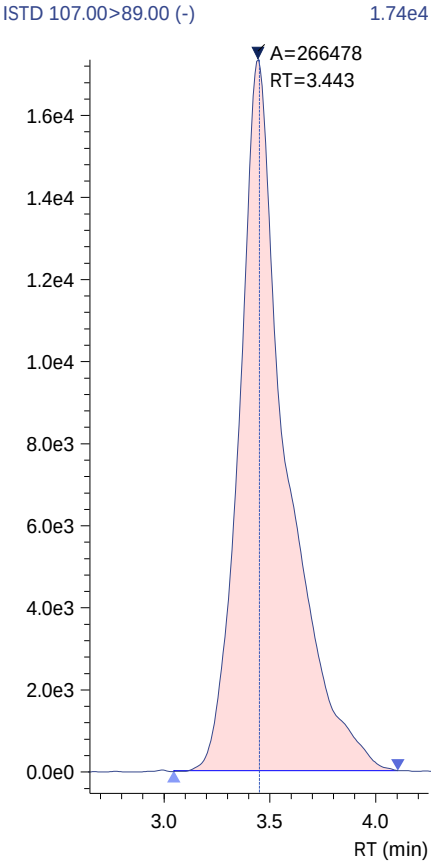






### Sodium Perchlorate-18O4_IS

Conc 1.0000




After-BLC

# Insight Report

Printed at 6/26/2024 12:08:01 PM

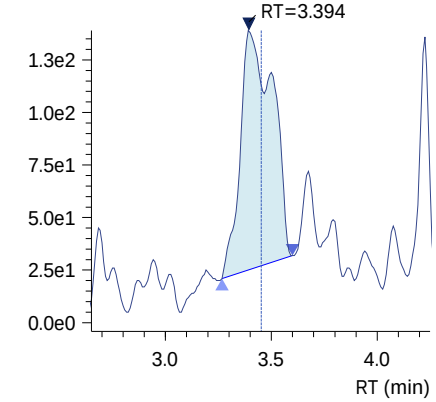
## E2400716-003x10

Sample ID: E2400716-003x10
Date Acquired: 6/25/2024 3:12:48 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-021.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 6

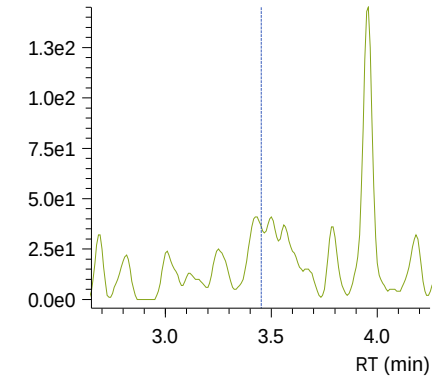
### Perchlorate

Conc 0.0357
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=1206 1.39e2



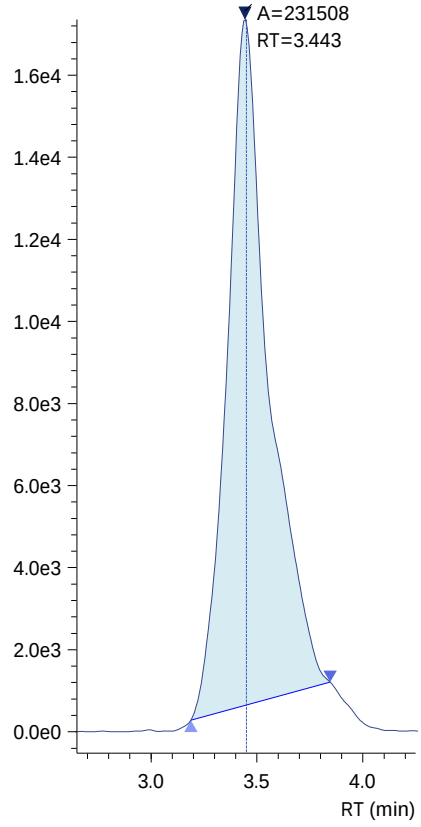

R1 101.00>85.00 (-) 1.45e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.74e4



# Insight Report

Printed at 6/26/2024 12:07:22 PM

## E2400716-004x10

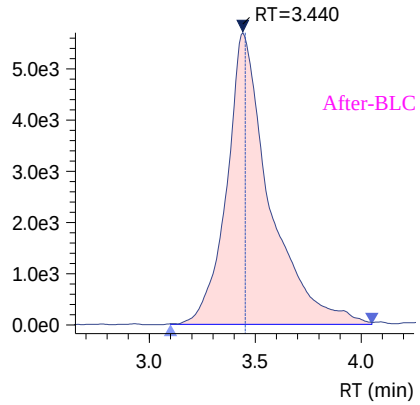
Sample ID: E2400716-004x10
Date Acquired: 6/25/2024 3:18:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-022.lcd
Vial: 14 | Inj. Volume: 10.0000uL | Tray: 6

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | M | 3.440 | 80256 | 330506 | 1.6632 | ng/mL | 101.00<br>>85.00 | 34.48 | 23.10<br>-42.90 |
| Sodium Perchlorate-18O4_IS | M | 3.449 | 330506 | 330506 | 1.0000 | ng/mL | ---- | ---- | |

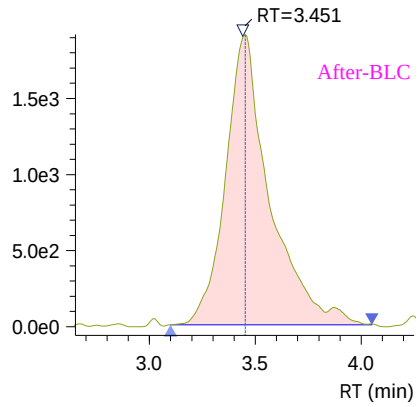
### Perchlorate

Conc 1.6632
R#1 34.48 (35.24)

Q 99.00>83.00 (-) A=80256 5.71e3



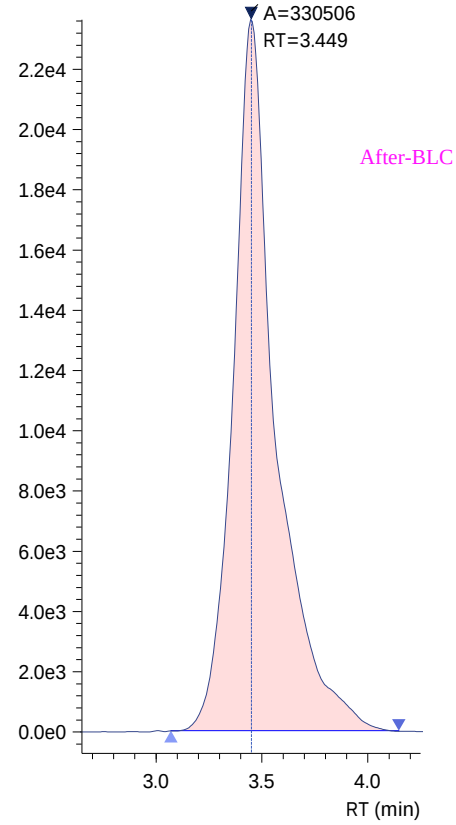

R1 101.00>85.00 (-) A=27668 1.92e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.36e4



# Insight Report

Printed at 6/26/2024 12:08:01 PM

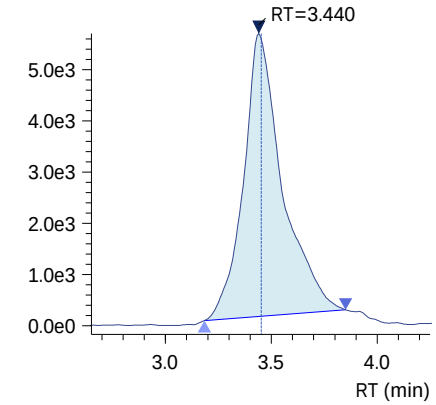
## E2400716-004x10

Sample ID: E2400716-004x10
Date Acquired: 6/25/2024 3:18:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-022.lcd
Vial: 14 | Inj. Volume: 10.0000uL | Tray: 6

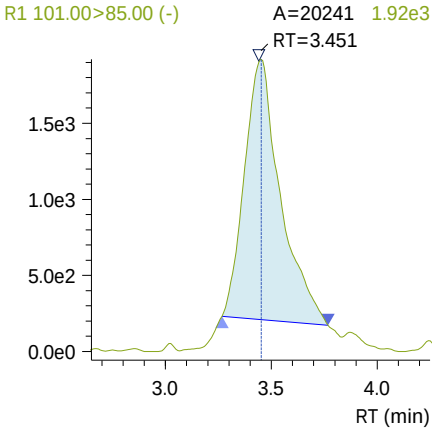
### Perchlorate

Conc 1.6899
R#1 28.80 (35.24)

Q 99.00>83.00 (-) A=70277 5.71e3



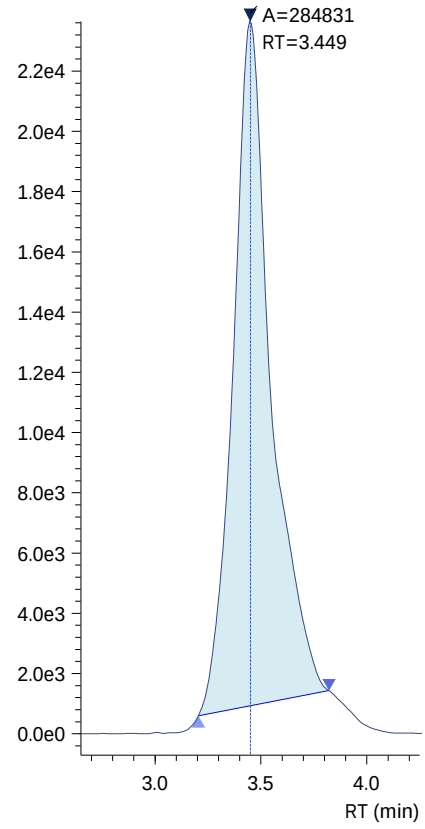

R1 101.00>85.00 (-) A=20241 1.92e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.36e4



# HS24061218 LHAAP Site 18 24 COVER PAGE

ALS WO# HS24061218

ALS Environmental
ALS Group USA, Corp
10450 Stancliff Road, Suite 210
Houston, TX 77099
**T :** +1 281 530 5656
**F :** +1 281 530 5887
**www.alsglobal.com**

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  - CaseNarrative
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  - 18WW18_061724
  - CO3_061724
  - 1824DPTMW01_061724
  - 18CPTMW18_061724
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  - MW19_061724
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Form 7 - HG04_470995 LCS
Form 7 - ICPMS07_470725 LCS
Form 8 - ICPMS07_470725 SD
Form 8 - ICPMS07_470915 SD

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
alsglobal.com

# WorkOrder: HS24061218

**LHAAP Site 18 24**

**Bhate Environmental Associates, Inc.**

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

**27-Aug-2024**

# HS24061218 LHAAP Site 18 24 Final

ALS WO# HS24061218

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

July 02, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24061218**

Laboratory Results for: **LHAAP Site 18 24**

Dear Marcia Olive,

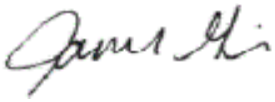
ALS Environmental received 9 sample(s) on Jun 19, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,



**Generated By: JUMOKE.LAWAL**
James Guin

**ALS Houston, US** Date: 02-Jul-24

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**Work Order:** HS24061218

## SAMPLE SUMMARY

| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
|---|---|---|---|---|---|---|
| HS24061218-01 | 1824DPTMW02_061724 | Water | | 17-Jun-2024 07:20 | 19-Jun-2024 10:05 | ☐ |
| HS24061218-02 | 18WW18_061724 | Water | | 17-Jun-2024 08:05 | 19-Jun-2024 10:05 | ☐ |
| HS24061218-03 | CO3_061724 | Water | | 17-Jun-2024 08:05 | 19-Jun-2024 10:05 | ☐ |
| HS24061218-04 | 1824DPTMW01_061724 | Water | | 17-Jun-2024 09:50 | 19-Jun-2024 10:05 | ☐ |
| HS24061218-05 | 18CPTMW18_061724 | Water | | 17-Jun-2024 10:35 | 19-Jun-2024 10:05 | ☐ |
| HS24061218-06 | 1824DPTMW03_061724 | Water | | 17-Jun-2024 11:20 | 19-Jun-2024 10:05 | ☐ |
| HS24061218-07 | MW19_061724 | Water | | 17-Jun-2024 12:05 | 19-Jun-2024 10:05 | ☐ |
| HS24061218-08 | MW18_061724 | Water | | 17-Jun-2024 12:45 | 19-Jun-2024 10:05 | ☐ |
| HS24061218-09 | Trip Blank | Water | CG-101623-537 | 17-Jun-2024 00:00 | 19-Jun-2024 10:05 | ☐ |



RIGHT SOLUTIONS | RIGHT PARTNER

**ALS Houston, US** Date: 02-Jul-24

**Client:** Bhate Environmental Associates, Inc. **CASE NARRATIVE**
**Project:** LHAAP Site 18 24
**Work Order:** HS24061218

## Work Order Comments

• Login Comments: No collection time on COC. Collection time on sample labels was used instead.

## Work Order Comments

• The analysis for Perchlorate was subcontracted to ALS High Res Lab Houston, TX. Final report attached.

• The analysis for VOCs was subcontracted to ALS Environmental in Middletown PA, MI. Final report attached.

## GCMS Semivolatiles by Method SW8270SIM

### Batch ID: 213834

**Sample ID: LCSD-213834**

• The RPD between the LCS and LCSD was outside of the control limit.

## Metals by Method SW7470A

### Batch ID: 214374

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## Metals by Method SW6020A

### Batch ID: 214140

**Sample ID: HS24061196-10MS**

• MS and MSD are for an unrelated sample

**Sample ID: HS24061196-10PDS**

• PDS is for an unrelated sample

**ALS Houston, US** Date: 02-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18 24
Sample ID: 1824DPTMW02_061724
Collection Date: 17-Jun-2024 07:20

**ANALYTICAL REPORT**
WorkOrder:HS24061218
Lab ID:HS24061218-01
Matrix:Water

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **SEMIVOLATILES SIM** | **Method:SW8270SIM** | | | | | Prep:SW3510 / 20-Jun-2024 | | Analyst: MBG |
| **1,4-Dioxane** | **0.059** | | **0.010** | **0.0040** | **0.030** | **ug/L** | 1 | 29-Jun-2024 17:35 |
| *Surr: 2-Fluorobiphenyl* | *85.0* | | | **0** | *40-140* | *%REC* | *1* | *29-Jun-2024 17:35* |
| *Surr: 4-Terphenyl-d14* | *96.5* | | | **0** | *40-140* | *%REC* | *1* | *29-Jun-2024 17:35* |
| *Surr: Nitrobenzene-d5* | *89.8* | | | **0** | *40-140* | *%REC* | *1* | *29-Jun-2024 17:35* |
| **SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)** | **Method:NA** | | | | | | | Analyst: SUB |
| Subcontract Analysis | See Attached | | 0 | 0 | | NA | 1 | 26-Jun-2024 15:58 |
| **SUBCONTRACT ANALYSIS -VOC ANALYSIS** | **Method:SUBCONTRACT** | | | | | | | Analyst: SUB |
| Subcontracted Analyses | See Attached | | 0 | 0 | | NA | 1 | 30-Jun-2024 19:11 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

**ALS Houston, US** Date: 02-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18 24
Sample ID: 18WW18_061724
Collection Date: 17-Jun-2024 08:05

**ANALYTICAL REPORT**
WorkOrder:HS24061218
Lab ID:HS24061218-02
Matrix:Water

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **SEMIVOLATILES SIM** | **Method:SW8270SIM** | | | | | Prep:SW3510 / 20-Jun-2024 | | Analyst: MBG |
| 1,4-Dioxane | 0.0040 | U | 0.010 | 0.0040 | 0.030 | ug/L | 1 | 29-Jun-2024 17:52 |
| *Surr: 2-Fluorobiphenyl* | *65.4* | | | **0** | *40-140* | *%REC* | *1* | *29-Jun-2024 17:52* |
| *Surr: 4-Terphenyl-d14* | *95.2* | | | **0** | *40-140* | *%REC* | *1* | *29-Jun-2024 17:52* |
| *Surr: Nitrobenzene-d5* | *77.2* | | | **0** | *40-140* | *%REC* | *1* | *29-Jun-2024 17:52* |
| **METALS BY ICPMS BY SW6020A** | **Method:SW6020A** | | | | | Prep:SW3010A / 26-Jun-2024 | | Analyst: JC |
| **Aluminum** | **0.0199** | | **0.00180** | **0.00500** | **0.0100** | **mg/L** | 1 | 28-Jun-2024 20:46 |
| Antimony | 0.0100 | U | 0.000400 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:46 |
| **Arsenic** | **0.00599** | | **0.000400** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:46 |
| **Barium** | **1.27** | | **0.00190** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:46 |
| **Beryllium** | **0.000512** | J | **0.000200** | **0.0100** | **0.00200** | **mg/L** | 1 | 28-Jun-2024 20:46 |
| **Cadmium** | **0.000231** | J | **0.000200** | **0.0100** | **0.00200** | **mg/L** | 1 | 28-Jun-2024 20:46 |
| **Calcium** | **57.3** | | **0.0340** | **1.00** | **0.500** | **mg/L** | 1 | 28-Jun-2024 20:46 |
| **Chromium** | **0.0442** | | **0.000400** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:46 |
| **Cobalt** | **0.000820** | J | **0.000100** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:46 |
| **Copper** | **0.00254** | J | **0.00100** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:46 |
| **Iron** | **108** | | **0.0120** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2024 20:46 |
| **Lead** | **0.000901** | J | **0.000600** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:46 |
| **Magnesium** | **34.9** | | **0.0100** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2024 20:46 |
| **Manganese** | **2.37** | | **0.0140** | **0.200** | **0.100** | **mg/L** | 20 | 01-Jul-2024 11:46 |
| **Nickel** | **0.0172** | | **0.000600** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:46 |
| **Potassium** | **3.38** | | **0.0180** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2024 20:46 |
| Selenium | 0.0100 | U | 0.00110 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:46 |
| Silver | 0.0100 | U | 0.000200 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:46 |
| **Sodium** | **150** | | **0.0140** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2024 20:46 |
| Thallium | 0.0100 | U | 0.000200 | 0.0100 | 0.00200 | mg/L | 1 | 28-Jun-2024 20:46 |
| Vanadium | 0.0100 | U | 0.000600 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:46 |
| **Zinc** | **0.0106** | | **0.00200** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:46 |
| **MERCURY BY SW7470A** | **Method:SW7470A** | | | | | Prep:SW7470A / 01-Jul-2024 | | Analyst: JS |
| Mercury | 0.000000100 | U | 0.0000300 | 0.000000100 | 0.000200 | mg/L | 1 | 01-Jul-2024 17:58 |
| **SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)** | **Method:NA** | | | | | | | Analyst: SUB |
| Subcontract Analysis | See Attached | | 0 | 0 | | NA | 1 | 26-Jun-2024 15:58 |
| **SUBCONTRACT ANALYSIS -VOC ANALYSIS** | **Method:SUBCONTRACT** | | | | | | | Analyst: SUB |
| Subcontracted Analyses | See Attached | | 0 | 0 | | NA | 1 | 30-Jun-2024 19:11 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

**ALS Houston, US** Date: 02-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18 24
Sample ID: CO3_061724
Collection Date: 17-Jun-2024 08:05

**ANALYTICAL REPORT**
WorkOrder:HS24061218
Lab ID:HS24061218-03
Matrix:Water

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **SEMIVOLATILES SIM** | | **Method:SW8270SIM** | | | | Prep:SW3510 / 20-Jun-2024 | | Analyst: MBG |
| 1,4-Dioxane | 0.0040 | U | 0.010 | 0.0040 | 0.030 | ug/L | 1 | 29-Jun-2024 18:10 |
| *Surr: 2-Fluorobiphenyl* | *73.7* | | | **0** | *40-140* | *%REC* | *1* | *29-Jun-2024 18:10* |
| *Surr: 4-Terphenyl-d14* | *79.6* | | | **0** | *40-140* | *%REC* | *1* | *29-Jun-2024 18:10* |
| *Surr: Nitrobenzene-d5* | *78.8* | | | **0** | *40-140* | *%REC* | *1* | *29-Jun-2024 18:10* |
| **METALS BY ICPMS BY SW6020A** | | **Method:SW6020A** | | | | Prep:SW3010A / 26-Jun-2024 | | Analyst: JC |
| **Aluminum** | **0.00686** | J | **0.00180** | **0.00500** | **0.0100** | **mg/L** | 1 | 28-Jun-2024 20:48 |
| Antimony | 0.0100 | U | 0.000400 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:48 |
| **Arsenic** | **0.00117** | J | **0.000400** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:48 |
| **Barium** | **0.785** | | **0.00190** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:48 |
| Beryllium | 0.0100 | U | 0.000200 | 0.0100 | 0.00200 | mg/L | 1 | 28-Jun-2024 20:48 |
| **Cadmium** | **0.000577** | J | **0.000200** | **0.0100** | **0.00200** | **mg/L** | 1 | 28-Jun-2024 20:48 |
| **Calcium** | **31.5** | | **0.0340** | **1.00** | **0.500** | **mg/L** | 1 | 28-Jun-2024 20:48 |
| **Chromium** | **0.000408** | J | **0.000400** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:48 |
| **Cobalt** | **0.000210** | J | **0.000100** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:48 |
| Copper | 0.0100 | U | 0.00100 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:48 |
| **Iron** | **47.4** | | **0.0120** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2024 20:48 |
| Lead | 0.0100 | U | 0.000600 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:48 |
| **Magnesium** | **17.0** | | **0.0100** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2024 20:48 |
| **Manganese** | **0.893** | | **0.000700** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:48 |
| **Nickel** | **0.000692** | J | **0.000600** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:48 |
| **Potassium** | **2.39** | | **0.0180** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2024 20:48 |
| Selenium | 0.0100 | U | 0.00110 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:48 |
| Silver | 0.0100 | U | 0.000200 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:48 |
| **Sodium** | **106** | | **0.0140** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2024 20:48 |
| Thallium | 0.0100 | U | 0.000200 | 0.0100 | 0.00200 | mg/L | 1 | 28-Jun-2024 20:48 |
| Vanadium | 0.0100 | U | 0.000600 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:48 |
| **Zinc** | **0.00734** | | **0.00200** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:48 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | | Prep:SW7470A / 01-Jul-2024 | | Analyst: JS |
| Mercury | 0.000000100 | U | 0.0000300 | 0.000000100 | 0.000200 | mg/L | 1 | 01-Jul-2024 18:00 |
| **SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)** | | **Method:NA** | | | | | | Analyst: SUB |
| Subcontract Analysis | See Attached | | 0 | 0 | | NA | 1 | 26-Jun-2024 15:58 |
| **SUBCONTRACT ANALYSIS -VOC ANALYSIS** | | **Method:SUBCONTRACT** | | | | | | Analyst: SUB |
| Subcontracted Analyses | See Attached | | 0 | 0 | | NA | 1 | 30-Jun-2024 19:11 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

**ALS Houston, US** Date: 02-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18 24
Sample ID: 1824DPTMW01_061724
Collection Date: 17-Jun-2024 09:50

**ANALYTICAL REPORT**
WorkOrder:HS24061218
Lab ID:HS24061218-04
Matrix:Water

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **SEMIVOLATILES SIM** | **Method:SW8270SIM** | | | | | Prep:SW3510 / 20-Jun-2024 | | Analyst: MBG |
| 1,4-Dioxane | 0.0040 | U | 0.010 | 0.0040 | 0.030 | ug/L | 1 | 29-Jun-2024 18:27 |
| *Surr: 2-Fluorobiphenyl* | *73.5* | | | **0** | *40-140* | *%REC* | *1* | *29-Jun-2024 18:27* |
| *Surr: 4-Terphenyl-d14* | *80.4* | | | **0** | *40-140* | *%REC* | *1* | *29-Jun-2024 18:27* |
| *Surr: Nitrobenzene-d5* | *86.4* | | | **0** | *40-140* | *%REC* | *1* | *29-Jun-2024 18:27* |
| **SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)** | **Method:NA** | | | | | | | Analyst: SUB |
| Subcontract Analysis | See Attached | | 0 | 0 | | NA | 1 | 26-Jun-2024 15:58 |
| **SUBCONTRACT ANALYSIS -VOC ANALYSIS** | **Method:SUBCONTRACT** | | | | | | | Analyst: SUB |
| Subcontracted Analyses | See Attached | | 0 | 0 | | NA | 1 | 30-Jun-2024 19:11 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

**ALS Houston, US** Date: 02-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18 24
Sample ID: 18CPTMW18_061724
Collection Date: 17-Jun-2024 10:35

**ANALYTICAL REPORT**
WorkOrder:HS24061218
Lab ID:HS24061218-05
Matrix:Water

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **SEMIVOLATILES SIM** | | **Method:SW8270SIM** | | | | Prep:SW3510 / 20-Jun-2024 | | Analyst: MBG |
| 1,4-Dioxane | 0.0040 | U | 0.010 | 0.0040 | 0.030 | ug/L | 1 | 29-Jun-2024 18:45 |
| *Surr: 2-Fluorobiphenyl* | *86.8* | | | **0** | *40-140* | *%REC* | *1* | *29-Jun-2024 18:45* |
| *Surr: 4-Terphenyl-d14* | *85.8* | | | **0** | *40-140* | *%REC* | *1* | *29-Jun-2024 18:45* |
| *Surr: Nitrobenzene-d5* | *89.8* | | | **0** | *40-140* | *%REC* | *1* | *29-Jun-2024 18:45* |
| **METALS BY ICPMS BY SW6020A** | | **Method:SW6020A** | | | | Prep:SW3010A / 26-Jun-2024 | | Analyst: JC |
| **Aluminum** | **0.0169** | | **0.00180** | **0.00500** | **0.0100** | **mg/L** | 1 | 28-Jun-2024 20:51 |
| Antimony | 0.0100 | U | 0.000400 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:51 |
| **Arsenic** | **0.000551** | J | **0.000400** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:51 |
| **Barium** | **0.474** | | **0.00190** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:51 |
| Beryllium | 0.0100 | U | 0.000200 | 0.0100 | 0.00200 | mg/L | 1 | 28-Jun-2024 20:51 |
| **Cadmium** | **0.000232** | J | **0.000200** | **0.0100** | **0.00200** | **mg/L** | 1 | 28-Jun-2024 20:51 |
| **Calcium** | **216** | | **0.680** | **20.0** | **10.0** | **mg/L** | 20 | 01-Jul-2024 11:48 |
| **Chromium** | **0.00187** | J | **0.000400** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:51 |
| **Cobalt** | **0.00987** | | **0.000100** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:51 |
| Copper | 0.0100 | U | 0.00100 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:51 |
| **Iron** | **0.594** | | **0.0120** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2024 20:51 |
| Lead | 0.0100 | U | 0.000600 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:51 |
| **Magnesium** | **132** | | **0.0100** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2024 20:51 |
| **Manganese** | **1.62** | | **0.000700** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:51 |
| **Nickel** | **0.00987** | | **0.000600** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:51 |
| **Potassium** | **2.34** | | **0.0180** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2024 20:51 |
| Selenium | 0.0100 | U | 0.00110 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:51 |
| Silver | 0.0100 | U | 0.000200 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:51 |
| **Sodium** | **648** | | **0.280** | **20.0** | **4.00** | **mg/L** | 20 | 01-Jul-2024 11:48 |
| Thallium | 0.0100 | U | 0.000200 | 0.0100 | 0.00200 | mg/L | 1 | 28-Jun-2024 20:51 |
| Vanadium | 0.0100 | U | 0.000600 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:51 |
| **Zinc** | **0.0165** | | **0.00200** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:51 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | | Prep:SW7470A / 01-Jul-2024 | | Analyst: JS |
| Mercury | 0.000000100 | U | 0.0000300 | 0.000000100 | 0.000200 | mg/L | 1 | 01-Jul-2024 18:01 |
| **SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)** | | **Method:NA** | | | | | | Analyst: SUB |
| Subcontract Analysis | See Attached | | 0 | 0 | | NA | 1 | 26-Jun-2024 15:58 |
| **SUBCONTRACT ANALYSIS -VOC ANALYSIS** | | **Method:SUBCONTRACT** | | | | | | Analyst: SUB |
| Subcontracted Analyses | See Attached | | 0 | 0 | | NA | 1 | 30-Jun-2024 19:11 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

**ALS Houston, US** Date: 02-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18 24
Sample ID: 1824DPTMW03_061724
Collection Date: 17-Jun-2024 11:20

**ANALYTICAL REPORT**
WorkOrder:HS24061218
Lab ID:HS24061218-06
Matrix:Water

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **SEMIVOLATILES SIM** | **Method:SW8270SIM** | | | | | Prep:SW3510 / 20-Jun-2024 | | Analyst: MBG |
| 1,4-Dioxane | 0.0040 | U | 0.010 | 0.0040 | 0.030 | ug/L | 1 | 29-Jun-2024 19:02 |
| *Surr: 2-Fluorobiphenyl* | *72.0* | | | **0** | *40-140* | *%REC* | *1* | *29-Jun-2024 19:02* |
| *Surr: 4-Terphenyl-d14* | *82.7* | | | **0** | *40-140* | *%REC* | *1* | *29-Jun-2024 19:02* |
| *Surr: Nitrobenzene-d5* | *88.6* | | | **0** | *40-140* | *%REC* | *1* | *29-Jun-2024 19:02* |
| **SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)** | **Method:NA** | | | | | | | Analyst: SUB |
| Subcontract Analysis | See Attached | | 0 | 0 | | NA | 1 | 26-Jun-2024 15:58 |
| **SUBCONTRACT ANALYSIS -VOC ANALYSIS** | **Method:SUBCONTRACT** | | | | | | | Analyst: SUB |
| Subcontracted Analyses | See Attached | | 0 | 0 | | NA | 1 | 30-Jun-2024 19:11 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 02-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18 24
Sample ID: MW19_061724
Collection Date: 17-Jun-2024 12:05

**ANALYTICAL REPORT**
WorkOrder:HS24061218
Lab ID:HS24061218-07
Matrix:Water

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **METALS BY ICPMS BY SW6020A** | | **Method:SW6020A** | | | | Prep:SW3010A / 26-Jun-2024 | | Analyst: JC |
| **Aluminum** | **0.129** | | **0.00180** | **0.00500** | **0.0100** | **mg/L** | 1 | 28-Jun-2024 20:53 |
| Antimony | 0.0100 | U | 0.000400 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:53 |
| **Arsenic** | **0.00164** | J | **0.000400** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:53 |
| **Barium** | **0.201** | | **0.00190** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:53 |
| Beryllium | 0.0100 | U | 0.000200 | 0.0100 | 0.00200 | mg/L | 1 | 28-Jun-2024 20:53 |
| **Cadmium** | **0.000561** | J | **0.000200** | **0.0100** | **0.00200** | **mg/L** | 1 | 28-Jun-2024 20:53 |
| **Calcium** | **140** | | **0.0340** | **1.00** | **0.500** | **mg/L** | 1 | 28-Jun-2024 20:53 |
| **Chromium** | **0.242** | | **0.000400** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:53 |
| **Cobalt** | **0.00624** | | **0.000100** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:53 |
| **Copper** | **0.00557** | | **0.00100** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:53 |
| **Iron** | **103** | | **0.0120** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2024 20:53 |
| Lead | 0.0100 | U | 0.000600 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:53 |
| **Magnesium** | **76.2** | | **0.0100** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2024 20:53 |
| **Manganese** | **2.55** | | **0.0350** | **0.500** | **0.250** | **mg/L** | 50 | 01-Jul-2024 11:51 |
| **Nickel** | **0.222** | | **0.000600** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:53 |
| **Potassium** | **4.44** | | **0.0180** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2024 20:53 |
| Selenium | 0.0100 | U | 0.00110 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:53 |
| Silver | 0.0100 | U | 0.000200 | 0.0100 | 0.00500 | mg/L | 1 | 28-Jun-2024 20:53 |
| **Sodium** | **1,250** | | **0.700** | **50.0** | **10.0** | **mg/L** | 50 | 01-Jul-2024 11:51 |
| Thallium | 0.0100 | U | 0.000200 | 0.0100 | 0.00200 | mg/L | 1 | 28-Jun-2024 20:53 |
| **Vanadium** | **0.000739** | J | **0.000600** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:53 |
| **Zinc** | **0.0141** | | **0.00200** | **0.0100** | **0.00500** | **mg/L** | 1 | 28-Jun-2024 20:53 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | | Prep:SW7470A / 01-Jul-2024 | | Analyst: JS |
| Mercury | 0.000000100 | U | 0.0000300 | 0.000000100 | 0.000200 | mg/L | 1 | 01-Jul-2024 18:03 |
| **SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)** | | **Method:NA** | | | | | | Analyst: SUB |
| Subcontract Analysis | See Attached | | 0 | 0 | | NA | 1 | 26-Jun-2024 15:58 |
| **SUBCONTRACT ANALYSIS -VOC ANALYSIS** | | **Method:SUBCONTRACT** | | | | | | Analyst: SUB |
| Subcontracted Analyses | See Attached | | 0 | 0 | | NA | 1 | 30-Jun-2024 19:11 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

**ALS Houston, US** Date: 02-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18 24
Sample ID: MW18_061724
Collection Date: 17-Jun-2024 12:45

**ANALYTICAL REPORT**
WorkOrder:HS24061218
Lab ID:HS24061218-08
Matrix:Water

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)** | | **Method:NA** | | | | | | Analyst: SUB |
| Subcontract Analysis | See Attached | | 0 | 0 | | NA | 1 | 26-Jun-2024 15:58 |
| **SUBCONTRACT ANALYSIS -VOC ANALYSIS** | | **Method:SUBCONTRACT** | | | | | | Analyst: SUB |
| Subcontracted Analyses | See Attached | | 0 | 0 | | NA | 1 | 30-Jun-2024 19:11 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

**ALS Houston, US** Date: 02-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18 24
Sample ID: Trip Blank
Collection Date: 17-Jun-2024 00:00

**ANALYTICAL REPORT**
WorkOrder:HS24061218
Lab ID:HS24061218-09
Matrix:Water

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **SUBCONTRACT ANALYSIS -VOC ANALYSIS** | **Method:SUBCONTRACT** | | | | | | | Analyst: SUB |
| Subcontracted Analyses | See Attached | | 0 | 0 | | NA | 1 | 30-Jun-2024 19:11 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

**Weight / Prep Log**

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

**Batch ID:** 213834 **Start Date:** 20 Jun 2024 12:12 **End Date:** 20 Jun 2024 12:12
**Method:** SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS24061218-01 | 1 | 1000 (mL) | 1 (mL) | 0.001 | 1-liter amber glass, Neat |
| HS24061218-02 | 1 | 1000 (mL) | 1 (mL) | 0.001 | 1-liter amber glass, Neat |
| HS24061218-03 | 1 | 1000 (mL) | 1 (mL) | 0.001 | 1-liter amber glass, Neat |
| HS24061218-04 | 1 | 1000 (mL) | 1 (mL) | 0.001 | 1-liter amber glass, Neat |
| HS24061218-05 | 1 | 1000 (mL) | 1 (mL) | 0.001 | 1-liter amber glass, Neat |
| HS24061218-06 | 1 | 1000 (mL) | 1 (mL) | 0.001 | 1-liter amber glass, Neat |

**Batch ID:** 214140 **Start Date:** 26 Jun 2024 13:00 **End Date:** 26 Jun 2024 13:00
**Method:** WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS24061218-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS24061218-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS24061218-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS24061218-07 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

**Batch ID:** 214374 **Start Date:** 01 Jul 2024 09:30 **End Date:** 01 Jul 2024 09:30
**Method:** MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS24061218-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS24061218-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS24061218-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS24061218-07 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

**ALS Houston, US** Date: 02-Jul-24

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** 213834 ( 1 ) | **Test Name :** SEMIVOLATILES SIM | | | | **Matrix:** Water | |
| HS24061218-01 | 1824DPTMW02_061724 | 17 Jun 2024 07:20 | | 20 Jun 2024 12:12 | 29 Jun 2024 17:35 | 1 |
| HS24061218-02 | 18WW18_061724 | 17 Jun 2024 08:05 | | 20 Jun 2024 12:12 | 29 Jun 2024 17:52 | 1 |
| HS24061218-03 | CO3_061724 | 17 Jun 2024 08:05 | | 20 Jun 2024 12:12 | 29 Jun 2024 18:10 | 1 |
| HS24061218-04 | 1824DPTMW01_061724 | 17 Jun 2024 09:50 | | 20 Jun 2024 12:12 | 29 Jun 2024 18:27 | 1 |
| HS24061218-05 | 18CPTMW18_061724 | 17 Jun 2024 10:35 | | 20 Jun 2024 12:12 | 29 Jun 2024 18:45 | 1 |
| HS24061218-06 | 1824DPTMW03_061724 | 17 Jun 2024 11:20 | | 20 Jun 2024 12:12 | 29 Jun 2024 19:02 | 1 |
| **Batch ID:** 214140 ( 0 ) | **Test Name :** METALS BY ICPMS BY SW6020A | | | | **Matrix:** Water | |
| HS24061218-02 | 18WW18_061724 | 17 Jun 2024 08:05 | | 26 Jun 2024 13:00 | 28 Jun 2024 20:46 | 1 |
| HS24061218-02 | 18WW18_061724 | 17 Jun 2024 08:05 | | 26 Jun 2024 13:00 | 01 Jul 2024 11:46 | 20 |
| HS24061218-03 | CO3_061724 | 17 Jun 2024 08:05 | | 26 Jun 2024 13:00 | 28 Jun 2024 20:48 | 1 |
| HS24061218-05 | 18CPTMW18_061724 | 17 Jun 2024 10:35 | | 26 Jun 2024 13:00 | 28 Jun 2024 20:51 | 1 |
| HS24061218-05 | 18CPTMW18_061724 | 17 Jun 2024 10:35 | | 26 Jun 2024 13:00 | 01 Jul 2024 11:48 | 20 |
| HS24061218-07 | MW19_061724 | 17 Jun 2024 12:05 | | 26 Jun 2024 13:00 | 28 Jun 2024 20:53 | 1 |
| HS24061218-07 | MW19_061724 | 17 Jun 2024 12:05 | | 26 Jun 2024 13:00 | 01 Jul 2024 11:51 | 50 |
| **Batch ID:** 214374 ( 0 ) | **Test Name :** MERCURY BY SW7470A | | | | **Matrix:** Water | |
| HS24061218-02 | 18WW18_061724 | 17 Jun 2024 08:05 | | 01 Jul 2024 09:30 | 01 Jul 2024 17:58 | 1 |
| HS24061218-03 | CO3_061724 | 17 Jun 2024 08:05 | | 01 Jul 2024 09:30 | 01 Jul 2024 18:00 | 1 |
| HS24061218-05 | 18CPTMW18_061724 | 17 Jun 2024 10:35 | | 01 Jul 2024 09:30 | 01 Jul 2024 18:01 | 1 |
| HS24061218-07 | MW19_061724 | 17 Jun 2024 12:05 | | 01 Jul 2024 09:30 | 01 Jul 2024 18:03 | 1 |
| **Batch ID:** R470524 ( 0 ) | **Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850) | | | | **Matrix:** Water | |
| HS24061218-01 | 1824DPTMW02_061724 | 17 Jun 2024 07:20 | | | 26 Jun 2024 15:58 | 1 |
| HS24061218-02 | 18WW18_061724 | 17 Jun 2024 08:05 | | | 26 Jun 2024 15:58 | 1 |
| HS24061218-03 | CO3_061724 | 17 Jun 2024 08:05 | | | 26 Jun 2024 15:58 | 1 |
| HS24061218-04 | 1824DPTMW01_061724 | 17 Jun 2024 09:50 | | | 26 Jun 2024 15:58 | 1 |
| HS24061218-05 | 18CPTMW18_061724 | 17 Jun 2024 10:35 | | | 26 Jun 2024 15:58 | 1 |
| HS24061218-06 | 1824DPTMW03_061724 | 17 Jun 2024 11:20 | | | 26 Jun 2024 15:58 | 1 |
| HS24061218-07 | MW19_061724 | 17 Jun 2024 12:05 | | | 26 Jun 2024 15:58 | 1 |
| HS24061218-08 | MW18_061724 | 17 Jun 2024 12:45 | | | 26 Jun 2024 15:58 | 1 |

**ALS Houston, US** Date: 02-Jul-24

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

**DATES REPORT**

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R470880 ( 0 ) | **Test Name :** SUBCONTRACT ANALYSIS -VOC ANALYSIS | | | | **Matrix:** Water | |
| HS24061218-01 | 1824DPTMW02_061724 | 17 Jun 2024 07:20 | | | 30 Jun 2024 19:11 | 1 |
| HS24061218-02 | 18WW18_061724 | 17 Jun 2024 08:05 | | | 30 Jun 2024 19:11 | 1 |
| HS24061218-03 | CO3_061724 | 17 Jun 2024 08:05 | | | 30 Jun 2024 19:11 | 1 |
| HS24061218-04 | 1824DPTMW01_061724 | 17 Jun 2024 09:50 | | | 30 Jun 2024 19:11 | 1 |
| HS24061218-05 | 18CPTMW18_061724 | 17 Jun 2024 10:35 | | | 30 Jun 2024 19:11 | 1 |
| HS24061218-06 | 1824DPTMW03_061724 | 17 Jun 2024 11:20 | | | 30 Jun 2024 19:11 | 1 |
| HS24061218-07 | MW19_061724 | 17 Jun 2024 12:05 | | | 30 Jun 2024 19:11 | 1 |
| HS24061218-08 | MW18_061724 | 17 Jun 2024 12:45 | | | 30 Jun 2024 19:11 | 1 |
| HS24061218-09 | Trip Blank | 17 Jun 2024 00:00 | | | 30 Jun 2024 19:11 | 1 |

**ALS Houston, US** Date: 02-Jul-24

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

**QC BATCH REPORT**

**Batch ID: 214140 ( 0 )** **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

**MBLK** Sample ID: **MBLK-214140** Units: **mg/L** Analysis Date: **28-Jun-2024 19:45**
Client ID: Run ID: **ICPMS07_470725** SeqNo: **8108622** PrepDate: **26-Jun-2024** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 0.00500 | 0.0100 | | | | | | | | U |
| Antimony | 0.0100 | 0.00500 | | | | | | | | U |
| Arsenic | 0.0100 | 0.00500 | | | | | | | | U |
| Barium | 0.0100 | 0.00500 | | | | | | | | U |
| Beryllium | 0.0100 | 0.00200 | | | | | | | | U |
| Cadmium | 0.0100 | 0.00200 | | | | | | | | U |
| Calcium | 1.00 | 0.500 | | | | | | | | U |
| Chromium | 0.0100 | 0.00500 | | | | | | | | U |
| Cobalt | 0.0100 | 0.00500 | | | | | | | | U |
| Copper | 0.0100 | 0.00500 | | | | | | | | U |
| Iron | 1.00 | 0.200 | | | | | | | | U |
| Lead | 0.0100 | 0.00500 | | | | | | | | U |
| Magnesium | 1.00 | 0.200 | | | | | | | | U |
| Manganese | 0.0100 | 0.00500 | | | | | | | | U |
| Nickel | 0.0100 | 0.00500 | | | | | | | | U |
| Potassium | 1.00 | 0.200 | | | | | | | | U |
| Selenium | 0.0100 | 0.00500 | | | | | | | | U |
| Silver | 0.0100 | 0.00500 | | | | | | | | U |
| Sodium | 1.00 | 0.200 | | | | | | | | U |
| Thallium | 0.0100 | 0.00200 | | | | | | | | U |
| Vanadium | 0.0100 | 0.00500 | | | | | | | | U |
| Zinc | 0.0100 | 0.00500 | | | | | | | | U |



RIGHT SOLUTIONS | RIGHT PARTNER

**ALS Houston, US** Date: 02-Jul-24

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

**QC BATCH REPORT**

**Batch ID: 214140 ( 0 )** **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

**LCS** Sample ID: **LCS-214140** Units: **mg/L** Analysis Date: **28-Jun-2024 19:47**
Client ID: Run ID: **ICPMS07_470725** SeqNo: **8108623** PrepDate: **26-Jun-2024** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 0.1056 | 0.0100 | 0.1 | 0 | 106 | 84 - 117 | | | | |
| Antimony | 0.0496 | 0.00500 | 0.05 | 0 | 99.2 | 85 - 117 | | | | |
| Arsenic | 0.04777 | 0.00500 | 0.05 | 0 | 95.5 | 84 - 116 | | | | |
| Barium | 0.04654 | 0.00500 | 0.05 | 0 | 93.1 | 86 - 114 | | | | |
| Beryllium | 0.04656 | 0.00200 | 0.05 | 0 | 93.1 | 83 - 121 | | | | |
| Cadmium | 0.04692 | 0.00200 | 0.05 | 0 | 93.8 | 87 - 115 | | | | |
| Calcium | 4.991 | 0.500 | 5 | 0 | 99.8 | 87 - 118 | | | | |
| Chromium | 0.04745 | 0.00500 | 0.05 | 0 | 94.9 | 85 - 116 | | | | |
| Cobalt | 0.04758 | 0.00500 | 0.05 | 0 | 95.2 | 86 - 115 | | | | |
| Copper | 0.0479 | 0.00500 | 0.05 | 0 | 95.8 | 85 - 118 | | | | |
| Iron | 4.866 | 0.200 | 5 | 0 | 97.3 | 87 - 118 | | | | |
| Lead | 0.04589 | 0.00500 | 0.05 | 0 | 91.8 | 88 - 115 | | | | |
| Magnesium | 4.93 | 0.200 | 5 | 0 | 98.6 | 83 - 118 | | | | |
| Manganese | 0.04827 | 0.00500 | 0.05 | 0 | 96.5 | 87 - 115 | | | | |
| Nickel | 0.04813 | 0.00500 | 0.05 | 0 | 96.3 | 85 - 117 | | | | |
| Potassium | 4.876 | 0.200 | 5 | 0 | 97.5 | 87 - 115 | | | | |
| Selenium | 0.0482 | 0.00500 | 0.05 | 0 | 96.4 | 80 - 120 | | | | |
| Silver | 0.04791 | 0.00500 | 0.05 | 0 | 95.8 | 85 - 116 | | | | |
| Sodium | 4.861 | 0.200 | 5 | 0 | 97.2 | 85 - 117 | | | | |
| Thallium | 0.04203 | 0.00200 | 0.05 | 0 | 84.1 | 82 - 116 | | | | |
| Vanadium | 0.04702 | 0.00500 | 0.05 | 0 | 94.0 | 86 - 115 | | | | |
| Zinc | 0.04791 | 0.00500 | 0.05 | 0 | 95.8 | 83 - 119 | | | | |

**ALS Houston, US** Date: 02-Jul-24

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

**QC BATCH REPORT**

**Batch ID: 214140 ( 0 )** **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

**MS** Sample ID: **HS24061196-10MS** Units: **mg/L** Analysis Date: **28-Jun-2024 19:55**
Client ID: Run ID: **ICPMS07_470725** SeqNo: **8108626** PrepDate: **26-Jun-2024** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 0.1047 | 0.0100 | 0.1 | 0.01321 | 91.5 | 84 - 117 | | | |
| Antimony | 0.04675 | 0.00500 | 0.05 | 0.000125 | 93.2 | 85 - 117 | | | |
| Arsenic | 0.04648 | 0.00500 | 0.05 | 0.000633 | 91.7 | 84 - 116 | | | |
| Barium | 0.6684 | 0.00500 | 0.05 | 0.6415 | 53.8 | 86 - 114 | | | SO |
| Beryllium | 0.04185 | 0.00200 | 0.05 | 0.000025 | 83.6 | 83 - 121 | | | |
| Cadmium | 0.04557 | 0.00200 | 0.05 | 0.000134 | 90.9 | 87 - 115 | | | |
| Calcium | 27.42 | 0.500 | 5 | 23.67 | 75.0 | 87 - 118 | | | SO |
| Chromium | 0.04454 | 0.00500 | 0.05 | 0.00071 | 87.7 | 85 - 116 | | | |
| Cobalt | 0.04518 | 0.00500 | 0.05 | 0.001239 | 87.9 | 86 - 115 | | | |
| Copper | 0.04654 | 0.00500 | 0.05 | 0.000738 | 91.6 | 85 - 118 | | | |
| Iron | 34.79 | 0.200 | 5 | 31.81 | 59.5 | 87 - 118 | | | SO |
| Lead | 0.04493 | 0.00500 | 0.05 | 0.000162 | 89.5 | 88 - 115 | | | |
| Magnesium | 12.18 | 0.200 | 5 | 8.035 | 82.9 | 83 - 118 | | | S |
| Manganese | 0.527 | 0.00500 | 0.05 | 0.5086 | 36.8 | 87 - 115 | | | SO |
| Nickel | 0.04609 | 0.00500 | 0.05 | 0.002044 | 88.1 | 85 - 117 | | | |
| Potassium | 7.074 | 0.200 | 5 | 2.622 | 89.0 | 87 - 115 | | | |
| Selenium | 0.04554 | 0.00500 | 0.05 | 0.000235 | 90.6 | 80 - 120 | | | |
| Silver | 0.04496 | 0.00500 | 0.05 | 0.000019 | 89.9 | 85 - 116 | | | |
| Sodium | 136.2 | 0.200 | 5 | 138.3 | -42.3 | 85 - 117 | | | SO |
| Thallium | 0.04021 | 0.00200 | 0.05 | 0.000044 | 80.3 | 82 - 116 | | | S |
| Vanadium | 0.0445 | 0.00500 | 0.05 | -0.000436 | 89.9 | 86 - 115 | | | |
| Zinc | 0.05782 | 0.00500 | 0.05 | 0.01508 | 85.5 | 83 - 119 | | | |

**ALS Houston, US** Date: 02-Jul-24

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

**QC BATCH REPORT**

**Batch ID: 214140 ( 0 )** **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

**MSD** Sample ID: **HS24061196-10MSD** Units: **mg/L** Analysis Date: **28-Jun-2024 19:57**
Client ID: Run ID: **ICPMS07_470725** SeqNo: **8108627** PrepDate: **26-Jun-2024** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 0.1096 | 0.0100 | 0.1 | 0.01321 | 96.4 | 84 - 117 | 0.1047 | 4.58 | 20 | |
| Antimony | 0.04833 | 0.00500 | 0.05 | 0.000125 | 96.4 | 85 - 117 | 0.04675 | 3.33 | 20 | |
| Arsenic | 0.04732 | 0.00500 | 0.05 | 0.000633 | 93.4 | 84 - 116 | 0.04648 | 1.8 | 20 | |
| Barium | 0.6672 | 0.00500 | 0.05 | 0.6415 | 51.4 | 86 - 114 | 0.6684 | 0.179 | 20 | SO |
| Beryllium | 0.04283 | 0.00200 | 0.05 | 0.000025 | 85.6 | 83 - 121 | 0.04185 | 2.33 | 20 | |
| Cadmium | 0.04597 | 0.00200 | 0.05 | 0.000134 | 91.7 | 87 - 115 | 0.04557 | 0.87 | 20 | |
| Calcium | 28.26 | 0.500 | 5 | 23.67 | 91.9 | 87 - 118 | 27.42 | 3.02 | 20 | O |
| Chromium | 0.04651 | 0.00500 | 0.05 | 0.00071 | 91.6 | 85 - 116 | 0.04454 | 4.33 | 20 | |
| Cobalt | 0.047 | 0.00500 | 0.05 | 0.001239 | 91.5 | 86 - 115 | 0.04518 | 3.96 | 20 | |
| Copper | 0.04868 | 0.00500 | 0.05 | 0.000738 | 95.9 | 85 - 118 | 0.04654 | 4.51 | 20 | |
| Iron | 35.89 | 0.200 | 5 | 31.81 | 81.6 | 87 - 118 | 34.79 | 3.13 | 20 | SO |
| Lead | 0.0449 | 0.00500 | 0.05 | 0.000162 | 89.5 | 88 - 115 | 0.04493 | 0.0534 | 20 | |
| Magnesium | 12.66 | 0.200 | 5 | 8.035 | 92.5 | 83 - 118 | 12.18 | 3.86 | 20 | |
| Manganese | 0.5434 | 0.00500 | 0.05 | 0.5086 | 69.6 | 87 - 115 | 0.527 | 3.07 | 20 | SO |
| Nickel | 0.04818 | 0.00500 | 0.05 | 0.002044 | 92.3 | 85 - 117 | 0.04609 | 4.44 | 20 | |
| Potassium | 7.325 | 0.200 | 5 | 2.622 | 94.1 | 87 - 115 | 7.074 | 3.5 | 20 | |
| Selenium | 0.04714 | 0.00500 | 0.05 | 0.000235 | 93.8 | 80 - 120 | 0.04554 | 3.45 | 20 | |
| Silver | 0.04493 | 0.00500 | 0.05 | 0.000019 | 89.8 | 85 - 116 | 0.04496 | 0.0667 | 20 | |
| Sodium | 141.9 | 0.200 | 5 | 138.3 | 71.2 | 85 - 117 | 136.2 | 4.08 | 20 | SO |
| Thallium | 0.04049 | 0.00200 | 0.05 | 0.000044 | 80.9 | 82 - 116 | 0.04021 | 0.694 | 20 | S |
| Vanadium | 0.04584 | 0.00500 | 0.05 | -0.000436 | 92.6 | 86 - 115 | 0.0445 | 2.98 | 20 | |
| Zinc | 0.05896 | 0.00500 | 0.05 | 0.01508 | 87.8 | 83 - 119 | 0.05782 | 1.95 | 20 | |

**ALS Houston, US** Date: 02-Jul-24

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

**QC BATCH REPORT**

**Batch ID: 214140 ( 0 )** **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

**PDS** Sample ID: **HS24061196-10PDS** Units: **mg/L** Analysis Date: **28-Jun-2024 20:00**
Client ID: Run ID: **ICPMS07_470725** SeqNo: **8108628** PrepDate: **26-Jun-2024** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 0.1029 | 0.0100 | 0.1 | 0.01321 | 89.7 | 80 - 120 | | | | |
| Antimony | 0.0918 | 0.00500 | 0.1 | 0.000125 | 91.7 | 80 - 120 | | | | |
| Arsenic | 0.093 | 0.00500 | 0.1 | 0.000633 | 92.4 | 80 - 120 | | | | |
| Barium | 0.7017 | 0.00500 | 0.1 | 0.6415 | 60.2 | 80 - 120 | | | | SO |
| Beryllium | 0.08428 | 0.00200 | 0.1 | 0.000025 | 84.3 | 80 - 120 | | | | |
| Cadmium | 0.09034 | 0.00200 | 0.1 | 0.000134 | 90.2 | 80 - 120 | | | | |
| Calcium | 31.7 | 0.500 | 10 | 23.67 | 80.3 | 80 - 120 | | | | |
| Chromium | 0.0899 | 0.00500 | 0.1 | 0.00071 | 89.2 | 80 - 120 | | | | |
| Cobalt | 0.09192 | 0.00500 | 0.1 | 0.001239 | 90.7 | 80 - 120 | | | | |
| Copper | 0.08952 | 0.00500 | 0.1 | 0.000738 | 88.8 | 80 - 120 | | | | |
| Lead | 0.08967 | 0.00500 | 0.1 | 0.000162 | 89.5 | 80 - 120 | | | | |
| Magnesium | 16.9 | 0.200 | 10 | 8.035 | 88.6 | 80 - 120 | | | | |
| Manganese | 0.5771 | 0.00500 | 0.1 | 0.5086 | 68.5 | 80 - 120 | | | | SO |
| Nickel | 0.09226 | 0.00500 | 0.1 | 0.002044 | 90.2 | 80 - 120 | | | | |
| Potassium | 11.8 | 0.200 | 10 | 2.622 | 91.8 | 80 - 120 | | | | |
| Selenium | 0.09238 | 0.00500 | 0.1 | 0.000235 | 92.1 | 80 - 120 | | | | |
| Silver | 0.09255 | 0.00500 | 0.1 | 0.000019 | 92.5 | 80 - 120 | | | | |
| Sodium | 141.9 | 0.200 | 10 | 138.3 | 35.4 | 80 - 120 | | | | SO |
| Thallium | 0.09236 | 0.00200 | 0.1 | 0.000044 | 92.3 | 80 - 120 | | | | |
| Vanadium | 0.09037 | 0.00500 | 0.1 | -0.000436 | 90.8 | 80 - 120 | | | | |
| Zinc | 0.1018 | 0.00500 | 0.1 | 0.01508 | 86.7 | 80 - 120 | | | | |

**PDS** Sample ID: **HS24061196-10PDS** Units: **mg/L** Analysis Date: **01-Jul-2024 11:36**
Client ID: Run ID: **ICPMS07_470915** SeqNo: **8111150** PrepDate: **26-Jun-2024** DF: **10**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Iron | 131.8 | 2.00 | 100 | 32.06 | 99.8 | 80 - 120 | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**ALS Houston, US** Date: 02-Jul-24

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

**QC BATCH REPORT**

**Batch ID: 214140 ( 0 )** **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

**SD** Sample ID: **HS24061196-10SD** Units: **mg/L** Analysis Date: **28-Jun-2024 19:52**
Client ID: Run ID: **ICPMS07_470725** SeqNo: **8108625** PrepDate: **26-Jun-2024** DF: **5**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 0.0250 | 0.0500 | | | | | 0.01321 | 0 | 10 | U |
| Antimony | 0.0500 | 0.0250 | | | | | 0.000125 | 0 | 10 | U |
| Arsenic | 0.0500 | 0.0250 | | | | | 0.000633 | 0 | 10 | U |
| Barium | 0.6208 | 0.0250 | | | | | 0.6415 | 3.23 | 10 | |
| Beryllium | 0.0500 | 0.0100 | | | | | 0.000025 | 0 | 10 | U |
| Cadmium | 0.0500 | 0.0100 | | | | | 0.000134 | 0 | 10 | U |
| Calcium | 23.17 | 2.50 | | | | | 23.67 | 2.09 | 10 | |
| Chromium | 0.0500 | 0.0250 | | | | | 0.00071 | 0 | 10 | U |
| Cobalt | 0.00133 | 0.0250 | | | | | 0.001239 | 0 | 10 | J |
| Copper | 0.0500 | 0.0250 | | | | | 0.000738 | 0 | 10 | U |
| Lead | 0.0500 | 0.0250 | | | | | 0.000162 | 0 | 10 | U |
| Magnesium | 7.959 | 1.00 | | | | | 8.035 | 0.953 | 10 | |
| Manganese | 0.5008 | 0.0250 | | | | | 0.5086 | 1.53 | 10 | |
| Nickel | 0.0500 | 0.0250 | | | | | 0.002044 | 0 | 10 | U |
| Potassium | 2.513 | 1.00 | | | | | 2.622 | 4.14 | 10 | |
| Selenium | 0.0500 | 0.0250 | | | | | 0.000235 | 0 | 10 | U |
| Silver | 0.0500 | 0.0250 | | | | | 0.000019 | 0 | 10 | U |
| Sodium | 137.7 | 1.00 | | | | | 138.3 | 0.452 | 10 | |
| Thallium | 0.0500 | 0.0100 | | | | | 0.000044 | 0 | 10 | U |
| Vanadium | 0.0500 | 0.0250 | | | | | -0.000436 | 0 | 10 | U |
| Zinc | 0.01415 | 0.0250 | | | | | 0.01508 | 0 | 10 | J |

**SD** Sample ID: **HS24061196-10SD** Units: **mg/L** Analysis Date: **01-Jul-2024 11:34**
Client ID: Run ID: **ICPMS07_470915** SeqNo: **8111149** PrepDate: **26-Jun-2024** DF: **50**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Iron | 32.05 | 10.0 | | | | | 32.06 | 0.0435 | 10 | |

**The following samples were analyzed in this batch:** HS24061218-02 HS24061218-03 HS24061218-05 HS24061218-07

**ALS Houston, US** Date: 02-Jul-24

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

**QC BATCH REPORT**

**Batch ID: 214374 ( 0 )** **Instrument: HG04** **Method: MERCURY BY SW7470A**

**MBLK** Sample ID: **MBLK-214374** Units: **mg/L** Analysis Date: **01-Jul-2024 17:38**
Client ID: Run ID: **HG04_470995** SeqNo: **8117742** PrepDate: **01-Jul-2024** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.000000100 | 0.000200 | | | | | | | | U |

**LCS** Sample ID: **LCS-214374** Units: **mg/L** Analysis Date: **01-Jul-2024 17:39**
Client ID: Run ID: **HG04_470995** SeqNo: **8117743** PrepDate: **01-Jul-2024** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00460 | 0.000200 | 0.005 | 0 | 92.0 | 82 - 119 | | | | |

**MS** Sample ID: **HS24061313-01MS** Units: **mg/L** Analysis Date: **01-Jul-2024 18:13**
Client ID: Run ID: **HG04_470995** SeqNo: **8117760** PrepDate: **01-Jul-2024** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00463 | 0.000200 | 0.005 | 0 | 92.6 | 82 - 119 | | | | |

**MSD** Sample ID: **HS24061313-01MSD** Units: **mg/L** Analysis Date: **01-Jul-2024 18:15**
Client ID: Run ID: **HG04_470995** SeqNo: **8117761** PrepDate: **01-Jul-2024** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00444 | 0.000200 | 0.005 | 0 | 88.8 | 82 - 119 | 0.004630 | 4.19 | 20 | |

**The following samples were analyzed in this batch:** HS24061218-02 HS24061218-03 HS24061218-05 HS24061218-07

**ALS Houston, US** Date: 02-Jul-24

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

**QC BATCH REPORT**

**Batch ID: 213834 ( 1 )** **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

**MBLK** Sample ID: **MBLK-213834** Units: **ug/L** Analysis Date: **29-Jun-2024 14:58**
Client ID: Run ID: **SV-6_470987** SeqNo: **8117290** PrepDate: **20-Jun-2024** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.0040 | 0.030 | | | | | | | | U |
| *Surr: 2-Fluorobiphenyl* | *0.06599* | *0* | *0.08* | *0* | *82.5* | *40 - 140* | | | | |
| *Surr: 4-Terphenyl-d14* | *0.09292* | *0* | *0.08* | *0* | *116* | *40 - 140* | | | | |
| *Surr: Nitrobenzene-d5* | *0.06278* | *0* | *0.08* | *0* | *78.5* | *40 - 140* | | | | |

**LCS** Sample ID: **LCS-213834** Units: **ug/L** Analysis Date: **29-Jun-2024 15:15**
Client ID: Run ID: **SV-6_470987** SeqNo: **8117291** PrepDate: **20-Jun-2024** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.06136 | 0.030 | 0.08 | 0 | 76.7 | 40 - 140 | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.05815* | *0* | *0.08* | *0* | *72.7* | *40 - 140* | | | | |
| *Surr: 4-Terphenyl-d14* | *0.04582* | *0* | *0.08* | *0* | *57.3* | *40 - 140* | | | | |
| *Surr: Nitrobenzene-d5* | *0.06435* | *0* | *0.08* | *0* | *80.4* | *40 - 140* | | | | |

**LCSD** Sample ID: **LCSD-213834** Units: **ug/L** Analysis Date: **29-Jun-2024 15:33**
Client ID: Run ID: **SV-6_470987** SeqNo: **8117292** PrepDate: **20-Jun-2024** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.06341 | 0.030 | 0.08 | 0 | 79.3 | 40 - 140 | 0 | 200 | 20 | R |
| *Surr: 2-Fluorobiphenyl* | *0.05359* | *0* | *0.08* | *0* | *67.0* | *40 - 140* | *0.06447* | *18.4* | *20* | |
| *Surr: 4-Terphenyl-d14* | *0.03425* | *0* | *0.08* | *0* | *42.8* | *40 - 140* | *0.07743* | *77.3* | *20* | R |
| *Surr: Nitrobenzene-d5* | *0.06272* | *0* | *0.08* | *0* | *78.4* | *40 - 140* | *0.06476* | *3.2* | *20* | |

**The following samples were analyzed in this batch:** HS24061218-01 HS24061218-02 HS24061218-03 HS24061218-04 HS24061218-05 HS24061218-06

**ALS Houston, US** Date: 02-Jul-24

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** **HS24061218**

**QUALIFIERS, ACRONYMS, UNITS**

| Qualifier | Description |
|---|---|
| * | Value exceeds Regulatory Limit |
| a | Not accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| J | Analyte detected below quantitation limit |
| M | Manually integrated, see raw data for justification |
| n | Not offered for accreditation |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL/SDL |

| Acronym | Description |
|---|---|
| DCS | Detectability Check Study |
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MQL | Method Quantitation Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PDS | Post Digestion Spike |
| PQL | Practical Quantitaion Limit |
| SD | Serial Dilution |
| SDL | Sample Detection Limit |
| TRRP | Texas Risk Reduction Program |

| Unit Reported | Description |
|---|---|
| mg/L | Milligrams per Liter |



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## CERTIFICATIONS,ACCREDITATIONS & LICENSES

| Agency | Number | Expire Date |
|---|---|---|
| Arizona | AZ0793 | 27-May-2025 |
| Arkansas | 88-00356_2024 | 27-Mar-2025 |
| California | 2919; 2025 | 30-Apr-2025 |
| Illinois | 2000322023-11 | 31-Jul-2025 |
| Kansas | E-10352 2023-2024 | 31-Jul-2024 |
| Kentucky | 123043 | 30-Apr-2025 |
| Louisiana | 03087 2023-2024 | 30-Jun-2025 |
| Maine | 2024017 | 23-Jun-2026 |
| Michigan | 9971 | 30-Apr-2025 |
| North Carolina | 624 - 2024 | 31-Dec-2024 |
| Oklahoma | 2023-140 | 31-Aug-2024 |
| Pennsylvania | 018 | 30-Jun-2025 |
| Tennessee | 04016 | 30-Apr-2025 |
| Texas | T104704231 TX-C24-00130 | 30-Apr-2025 |
| Utah | TX026932023-14 | 31-Jul-2024 |



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**ALS Houston, US** Date: 02-Jul-24

## Sample Receipt Checklist

**Work Order ID:** HS24061218 **Date/Time Received:** 19-Jun-2024 10:05

**Client Name:** Bhate Environmental **Received by:** Si Ma

**Completed By:** /S/ Michael Lucio (eSignature) 19-Jun-2024 22:38 (Date/Time) **Reviewed by:** /S/ Luis.Aguilar (eSignature) 21-Jun-2024 13:17 (Date/Time)

Matrices: w Carrier name: FedEx

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on shipping container/cooler? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☑ |
| VOA/TX1005/TX1006 Solids in hermetically sealed vials? | Yes ☐ | No ☐ | Not Present ☑ |
| Chain of custody present? | Yes ☑ | No ☐ | 1 Page(s) |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Samplers name present on COC? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☐ | No ☑ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? | Yes ☑ | No ☐ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | |

| | | |
|---|---|---|
| Temperature(s)/Thermometer(s): | 1.4uc/1.5c | IR31 |
| Cooler(s)/Kit(s): | Blue | |
| Date/Time sample(s) sent to storage: | 06/19/2024 22:39 | |

| | | | |
|---|---|---|---|
| Water - VOA vials have zero headspace? | Yes ☑ | No ☐ | No VOA vials submitted ☐ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | N/A ☐ |
| pH adjusted? | Yes ☐ | No ☑ | N/A ☐ |
| pH adjusted by: | | | |

Login Notes: Login Comments: No collection time on COC. Collection time on sample labels was used instead.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

bhate

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

# Chain of Custody and Analytical Request

**HS24061218**

Bhate Environmental Associates, Inc.
LHAAP 18 24

Facility/Base I.D.: LHAAP / BILL to PCI

Project/Site Name: LHAAP / Site 18/24

Client Name:

Collected by: Scott Beesinger

| Field Sample ID (20 Characters Max) | Date Collected (dd-mmm-yyyy) | Time Collected (Military) (hh:mm) | Sample Depth (beginning - ending) | SA Code [2] | Sample Number [3] | Sample Matrix [4] | Number of containers | VOC | PERCHLORATE | TOTAL METALS | 1,4 - DIOXANE | | | | | | | Ambient Blank Lot Control Number | Equipment Blank Lot Control Number | Trip Blank Lot Control Number | Cooler ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1824DPTmw02_061724 | 17 Jun 2024 | | - | N | | wb | 5 | X | X | | X | | | | | | | | | | |
| 18mw18_061724 | 17 Jun 2024 | | - | N | | wb | 6 | X | X | X | X | | | | | | | | | | |
| Co's_061724 | 17 Jun 2024 | | - | N | | wb | 6 | X | X | X | X | | | | | | | | | | |
| 1824DPTmw01_061724 | 17 Jun 2024 | | | N | | wb | 5 | X | X | | X | | | | | | | | | | |
| 18DPTmw18_061724 | 17 Jun 2024 | | | N | | wb | 6 | X | X | X | X | | | | | | | | | | |
| 1824DPTmw03_061724 | 17 Jun 2024 | | - | N | | wb | 5 | X | X | | X | | | | | | | | | | |
| mw19_061724 | 17 Jun 2024 | | - | N | | wb | 5 | X | X | X | | | | | | | | | | | |
| mw18_061724 | 17 Jun 2024 | | - | N | | wb | 4 | X | X | | | | | | | | | | | | |
| TRIP Blank | 17 Jun 2024 | | - | TB | | w | 2 | X | | | | | | | | | | | | | |
| | | | - | | | | | | | | | | | | | | | | | | |
| | | | - | | | | | | | | | | | | | | | | | | |

Sample Analysis Requested [5]

Quality Assurance Samples [6]

COMMENTS: STANDARD TAT Cooler Blue Temp 1.4 Date 31 Oct to 1

Relinquished By (Signed) Date Time
1. Scott Beesinger 6/18/24 1400
2.
3.

Received by (Signed) Date Time
1.
2.
3. GMT 06/19/24 10:05

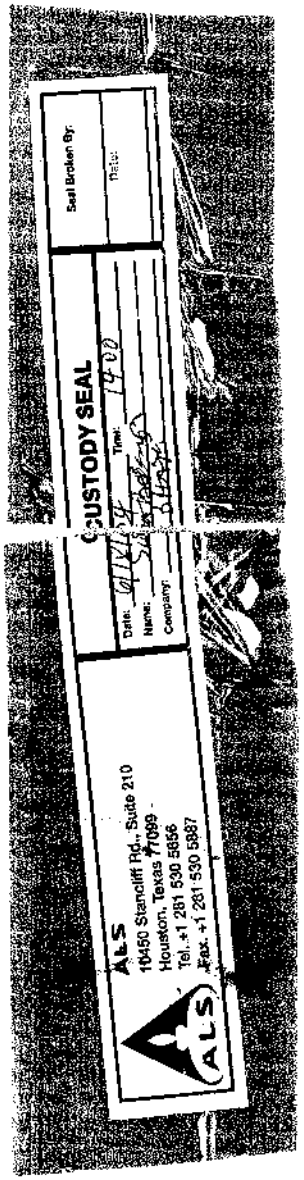
Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:
Method of Shipment:
Fed Ex Airbill Number:
Analytical Lab: ALS 10450 Stancliff Rd Suite 210 Houston, TX 77099 (281) 530-5656
ATTN: Dana Wagsey Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-01-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control



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CUSTODY SEAL
Seal Broken By:
Time:
Date:
Name:
Company:
ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5856
Fax. +1 281 530 5887


ALS
SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099
FedEx
Express
WED - 19 JUN AA
PRIORITY OVERNIGHT
6239 3000 9567
77099
TX-US
IAH

June 26, 2024 Service Request No:E2400715

ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

**Laboratory Results for: HS24061218**

Enclosed are the results of the sample(s) submitted to our laboratory June 19, 2024
For your reference, these analyses have been assigned our service request number **E2400715.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

# Certificate of Analysis

**ALS Environmental - Houston Specialties Laboratory**
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request No.:** | E2400715 |
| **Project:** | HS24061218 | **Date Received:** | 06/19/24 |
| **Sample Matrix:** | Water | | |

## CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

### Sample Receipt

Eight samples were received for analysis at ALS Environmental in Houston on 06/19/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

### Data Validation Notes and Discussion

**Precision and Accuracy:**

EQ2400343: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

Samples E2400715-002, 005, and 007 ran at DF-10 due to matrix interference suppressing the internal standard in the undiluted run

This report has been revised on 06/27/2024 as the case narrative from the lab had been missed.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*

**Client:** ALS Environmental - US **Service Request:**E2400715
**Project:** HS24061218

## SAMPLE CROSS-REFERENCE

| SAMPLE # | CLIENT SAMPLE ID | DATE | TIME |
|---|---|---|---|
| E2400715-001 | 1824DOTTMW02_061724 | 6/17/2024 | 0720 |
| E2400715-002 | 18WW18_061724 | 6/17/2024 | 0805 |
| E2400715-003 | CO3_061724 | 6/17/2024 | 0805 |
| E2400715-004 | 1824DOTTMW01_061724 | 6/17/2024 | 0950 |
| E2400715-005 | 18CPTMW18_061724 | 6/17/2024 | 1035 |
| E2400715-006 | 1824DOTTMW03_061724 | 6/17/2024 | 1120 |
| E2400715-007 | MW19_061724 | 6/17/2024 | 1205 |
| E2400715-008 | MW18_061724 | 6/17/2024 | 1245 |

# Service Request Summary

**Folder #:** **E2400715**
Client Name: ALS Environmental - US
Project Name: HS24061218
Project Number:

**Report To:**

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/19/24
Internal Due Date: 7/1/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

8 120 mL-Plastic Bottle Natural WM Unpreserved
**Location:** EHRMS-WIC 1A
**Pressure Gas:**

| Lab Samp No. | Client Samp No | Matrix | Collected | HOUSTON ClO4 DOD/6850 |
|---|---|---|---|---|
| E2400715-001 | 1824DOTTMW02_061724 | Water | 06/17/24 0720 | **IV** |
| E2400715-002 | 18WW18_061724 | Water | 06/17/24 0805 | **IV** |
| E2400715-003 | CO3_061724 | Water | 06/17/24 0805 | **IV** |
| E2400715-004 | 1824DOTTMW01_061724 | Water | 06/17/24 0950 | **IV** |
| E2400715-005 | 18CPTMW18_061724 | Water | 06/17/24 1035 | **IV** |
| E2400715-006 | 1824DOTTMW03_061724 | Water | 06/17/24 1120 | **IV** |
| E2400715-007 | MW19_061724 | Water | 06/17/24 1205 | **IV** |
| E2400715-008 | MW18_061724 | Water | 06/17/24 1245 | **IV** |

# Service Request Summary

**Folder #:** **E2400715**
Client Name: ALS Environmental - US
Project Name: HS24061218
Project Number:

**Report To:**

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/19/24
Internal Due Date: 7/1/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

8 120 mL-Plastic Bottle Natural WM Unpreserved
**Location:** EHRMS-WIC 1A
**Pressure Gas:**

# Data Qualifiers

## Lab Standard

| | |
|---|---|
| + | Possible Tedlar bag artifact. |
| A | TIC is a suspected aldol-condensation product |
| B | Analyte found in the associated method blank as well as in the sample. |
| BC | Reported results are not blank corrected. |
| BH | The back section of the tube yielded higher results than the front. |
| BT | Results indicated possible breakthrough; back section >=10% front section. |
| C | Result identification confirmed. |
| D | Compound identified in an analysis at a secondary dilution factor |
| D | Spike was diluted out |
| DE | Reported results are corrected for desorption efficiency. |
| E | Estimated value. Concentration above calibration range |
| E | The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample. |
| F | The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard. |
| H | The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard. |
| H1 | Sample analysis performed past holding time. See case narrative. |
| H2 | Initial analysis within holding time. Reanalysis for the required dilution was past holding time. |
| H3 | Sample was received and analyzed past holding time. |
| H4 | Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative. |
| I | (Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result. |
| I | Internal standard not within the specified limits. See case narrative. |
| I | The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result. |
| J | Estimated Value. Concentration found below MRL. |
| K | A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate. |
| K | Analyte was detected above the method reporting limit prior to normalization. |
| K | The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result. |
| L | The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard. |
| L1 | Laboratory control sample recovery outside the specified limits; results may be biased high. |
| L2 | Laboratory control sample recovery outside the specified limits; results may be biased low. |
| L3 | Laboratory control sample recovery outside the specified limits. |
| M | Matrix interference; results may be biased high. |
| M | The duplicate injection precision not met. |

# Data Qualifiers

## Lab Standard

| | |
|---|---|
| M1 | Matrix interference due to coelution with a non-target compound; results may be biased high. |
| N | Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search. |
| N | The Matrix Spike sample recovery is not within control limits. See case narrative. |
| O | The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard. |
| P | Indicates chlorodiphenyl ether interference present at the retention time of the target compound. |
| P | Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns |
| Q | Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria. |
| R | Duplicate Precision not met. |
| R1 | Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated. |
| S | Surrogate recovery not within specified limits. |
| S | The reported value was determined by the Method of Standard Additions (MSA). |
| T | Analyte is a tentatively identified compound, result is estimated. |
| U | Compound was analyzed for, but was not detected (ND). |
| V1 | The continuing calibration verification standard was outside (biased high) the specified limits for this compound. |
| V2 | The continuing calibration verification standard was outside (biased low) the specified limits for this compound. |
| W | Result quantified, but the corresponding peak was detected outside the generated retention time window. |
| W | The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance. |
| X | See case narrative. |
| Y | Recovery outside limits |
| Y | The chromatogram resembles a petroleum product but does not match the calibration standard. |
| Z | The chromatogram does not resemble a petroleum product. |
| i | The MRL/MDL has been elevated due to a matrix interference. |

# ALS Laboratory Group

**Acronyms**

| | |
|---|---|
| Cal | Calibration |
| Conc | CONCentration |
| Dioxin(s) | Polychlorinated dibenzo-p-dioxin(s) |
| EDL | Estimated Detection Limit |
| EMPC | Estimated Maximum Possible Concentration |
| Flags | Data qualifiers |
| Furan(s) | Polychlorinated dibenzofuran(s) |
| g | Grams |
| ICAL | Initial CALibration |
| ID | IDentifier |
| Ions | Masses monitored for the analyte during data acquisition |
| L | Liter (s) |
| LCS | Laboratory Control Sample |
| DLCS | Duplicate Laboratory Control Sample |
| MB | Method Blank |
| MCL | Method Calibration Limit |
| MDL | Method Detection Limit |
| mL | Milliliters |
| MS | Matrix Spiked sample |
| DMS | Duplicate Matrix Spiked sample |
| NO | Number of peaks meeting all identification criteria |
| PCDD(s) | Polychlorinated dibenzo-p-dioxin(s) |
| PCDF(s) | Polychlorinated dibenzofuran(s) |
| ppb | Parts per billion |
| ppm | Parts per million |
| ppq | Parts per quadrillion |
| ppt | Parts per trillion |
| QA | Quality Assurance |
| QC | Quality Control |
| Ratio | Ratio of areas from monitored ions for an analyte |
| % Rec. | Percent recovery |
| RPD | Relative Percent Difference |
| RRF | Relative Response Factor |
| RT | Retention Time |
| SDG | Sample Delivery Group |
| S/N | Signal-to-noise ratio |
| TEF | Toxicity Equivalence Factor |
| TEQ | Toxicity Equivalence Quotient |

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## State Certifications, Accreditations, and Licenses

| Agency | Number | Expire Date |
|---|---|---|
| Arkansas Department of Environmental Quality | 88-00356 | 3/28/2025 |
| California State Environmental Laboratory Accreditation Program | 2919-2024 | 4/30/2025 |
| Department of Defense | L24-240 | 4/30/2026 |
| Florida Department of Health | E87611-38 | 6/30/2024 |
| Hawaii Department of Health | 2024 | 4/30/2025 |
| Illinois Environmental Protection Agency | 2000322023-11 | 6/30/2024 |
| Kansas Department of Health and Environment | E-10352 2023-2024 | 7/31/2024 |
| Louisiana Department of Environmental Quality | 03087-2023 | 6/30/2024 |
| Louisiana Department of Health and Hospitals | LA028-2024 | 12/31/2024 |
| Maryland Department of the Environment | 343-2023 | 6/30/2024 |
| Minnesota Department of Health | 2645386 | 12/31/2024 |
| Nevada Division of Environmental Protection | TX026932024-1 | 7/31/2024 |
| New Hampshire Environmental Laboratory Accreditation Program | 209424-A | 4/24/2025 |
| New Jersey Department of Environmental Protection | TX008-2024 | 6/30/2024 |
| Oklahoma Department of Environmental Quality | 2023-140 | 8/31/2024 |
| Oregon Environmental Laboratory Accreditation Program | TX200002-2024 | 5/15/2025 |
| Pennsylvania Department of Environmental Protection | 68-03441-017 | 6/30/2024 |
| Tennessee Department of Environment and Conservation | 04016-2024 | 4/30/2025 |
| Texas Commision on Environmental Quality | TX-C24-00130 | 4/30/2025 |
| Utah Department of Health Environmental Laboratory Certification | TX026932023-14 | 7/31/2024 |
| Washington Department of Ecology | C819-23 | 11/14/2024 |

# Chain of Custody

**ALS Environmental - Houston Specialties Laboratory**
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

E2400715 5
ALS Laboratory Group
HS24061218

10450 Stancliff Rd, Ste 210
Houston, TX 77099
**T:** +1 281 530 5656
**F:** +1 281 530 5887
**www.alsglobal.com**

# Subcontract Chain of Custody

**SAMPLING STATE:** **Texas** **COC ID:** **26091**

**SUBCONTRACT TO:**

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

**Phone:** +1 281 530 5656

**CUSTOMER INFORMATION:**

| | |
|---|---|
| **Company:** | ALS Houston |
| **Contact:** | James Guin |
| **Address:** | 10450 Stancliff Rd, Ste 210 |
| **Phone:** | +1 281 530 5656 |
| **Email:** | James.Guin@alsglobal.com |
| **Alternate Contact:** | |
| **Email:** | |

**INVOICE INFORMATION:**

| | |
|---|---|
| **Company:** | ALS Houston |
| **Contact:** | Accounts Payable |
| **Address:** | 10450 Stancliff Rd, Ste 210 |
| **Phone:** | +1 281 530 5656 |
| **Reference:** | HS24061218 |
| **TSR:** | Sonia West |

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|---|---|---|---|---|
| | ANALYSIS REQUESTED | | | DUE DATE |
| **1.** | **HS24061218-01** | **1824DOTTMW02_061724** | **Water** | **17 Jun 2024 07:20** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| **2.** | **HS24061218-02** | **18WW18_061724** | **Water** | **17 Jun 2024 08:05** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| **3.** | **HS24061218-03** | **CO3_061724** | **Water** | **17 Jun 2024 08:05** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| **4.** | **HS24061218-04** | **1824DOTTMW01_061724** | **Water** | **17 Jun 2024 09:50** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| **5.** | **HS24061218-05** | **18CPTMW18_061724** | **Water** | **17 Jun 2024 10:35** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| **6.** | **HS24061218-06** | **1824DOTTMW03_061724** | **Water** | **17 Jun 2024 11:20** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| **7.** | **HS24061218-07** | **MW19_061724** | **Water** | **17 Jun 2024 12:05** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| **8.** | **HS24061218-08** | **MW18_061724** | **Water** | **17 Jun 2024 12:45** |

# Subcontract Chain of Custody

**SAMPLING STATE:** **Texas** **COC ID:** **26091**

| LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|---|---|---|---|
| ANALYSIS REQUESTED | | | DUE DATE |
| 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |

**Comments:** Please analyze for the analysis listed above.
Send report to the emails shown above.

**QC Level:** DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: 6/20/24 1146

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____


RIGHT SOLUTIONS | RIGHT PARTNER

E2400715 5
ALS Laboratory Group
HS24061218

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Houston, TX 77099
**T:** +1 281 530 5656
**F:** +1 281 530 5887
**www.alsglobal.com**

# Sample Receipt Checklist

**Work Order ID:** HS24061218 **Date/Time received:** 19 Jun 2024 10:05

**Client name:** Bhate Environmental Associates, Inc. **Received by:** Si Ma

**Completed/By:** 19 Jun 2024 22:38 (Date/Time) Michael Lucio (eSignature) **Reviewed/By:** (Date/Time) (eSignature)

**Matrices:** w **Carrier name:** FedEx

| | | | |
|---|---|---|---|
| **Shipping container/cooler in good condition?** | ☑ Yes | ☐ No | ☐ Not Present |
| **Custody seals intact on shipping container/cooler?** | ☑ Yes | ☐ No | ☐ Not Present |
| **Custody seals intact on Sample bottles?** | ☐ Yes | ☐ No | ☑ Not Present |
| **VOA/TX1005/TX1006 Solids in hermetically sealed vials?** | ☐ Yes | ☐ No | ☑ Not Present |
| **Chain of custody present?** | ☑ Yes | ☐ No | 1 Page(s) |
| **Chain of custody signed when relinquished and received?** | ☑ Yes | ☐ No | COC ID(s): |
| **Samplers name present on COC?** | ☑ Yes | ☐ No | |
| **Chain of custody agrees with sample labels?** | ☐ Yes | ☑ No | |
| **Samples in proper container/bottle?** | ☑ Yes | ☐ No | |
| **Sample containers intact?** | ☑ Yes | ☐ No | |
| **Sufficient sample volume for indicated test?** | ☑ Yes | ☐ No | |
| **All samples received within holding time?** | ☑ Yes | ☐ No | |
| **Container/Temp Blank temperature in compliance?** | ☑ Yes | ☐ No | |

**Temperature(s)/Thermometer(s):** 1.4uc/1.5c IR31

**Cooler Information:** 1 Cooler(s), Blue

**Date/Time sample(s) sent to storage:** 06/19/2024 22:39

| | | | |
|---|---|---|---|
| **Water - VOA vials have zero headspace?** | ☑ Yes | ☐ No | ☐ No VOA vials submitted |
| **Water - pH acceptable upon receipt?** | ☑ Yes | ☐ No | ☐ Not Applicable |
| **pH adjusted?** | ☐ Yes | ☑ No | ☐ Not Applicable |

**pH adjusted by:**

**Login notes:** No collection time on COC. Collection time on sample labels was used instead.

**Client contacted:** **Date contacted:** **Person contacted:**

**Contacted by:** **Regarding:**

**Comments:**

**Corrective action:**

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**T:** +1 281 530 5656
**F:** +1 281 530 5887
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# SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

**Cooler Custody Seals (desirable, mandatory if specified in SAP):**

- ✓ Intact on outside of cooler, signed and dated

**Chain-of-Custody (COC) documentation (mandatory):**

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

**Sample Integrity (mandatory):**

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

**Temperature Requirement (varies by sample matrix):**

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

# Preparation Information Benchsheets

**ALS Environmental - Houston Specialties Laboratory**
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# *Preparation Information Benchsheet*

**Prep Run#:** 440489 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
**Team:** Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/24/24 10:15

| # | Lab Code | Client ID | B# | Method /Test | pH | Cl | Matrix | Amt. Ext. | Sample Description |
|---|---|---|---|---|---|---|---|---|---|
| 1 | E2400696-001 | 18CPTMW10DW-061424 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 2 | E2400696-002 | 18CPTMW10DW-061424-a | .02 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 3 | E2400696-003 | 18CPTMW10SW-061424 | .02 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 4 | E2400696-004 | MW9-061424 | .02 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 5 | E2400696-005 | MW10-061424 | .02 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 6 | E2400696-006 | 18WW10-061424 | .02 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 7 | E2400696-007 | MW17-061424 | .02 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 8 | E2400696-008 | MW16-061424 | .02 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 9 | E2400696-009 | 17WW08-061424 | .02 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 10 | E2400696-010 | 17WW08-061424-a | .02 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 11 | E2400710-001 | 2406130941A BLM-27-270 | .01 | 6850/ClO4 | | | Water | 10mL | |
| 12 | E2400715-001 | 1824DOTTMW02_061724 | .01 | 6850/ClO4 DOD | | | Water | 10mL | |
| 13 | E2400715-002 | 18WW18_061724 | .01 | 6850/ClO4 DOD | | | Water | 10mL | |
| 14 | E2400715-003 | CO3_061724 | .01 | 6850/ClO4 DOD | | | Water | 10mL | |
| 15 | E2400715-004 | 1824DOTTMW01_061724 | .01 | 6850/ClO4 DOD | | | Water | 10mL | |
| 16 | E2400715-005 | 18CPTMW18_061724 | .01 | 6850/ClO4 DOD | | | Water | 10mL | |
| 17 | E2400715-006 | 1824DOTTMW03_061724 | .01 | 6850/ClO4 DOD | | | Water | 10mL | |
| 18 | E2400715-007 | MW19_061724 | .01 | 6850/ClO4 DOD | | | Water | 10mL | |
| 19 | E2400715-008 | MW18_061724 | .01 | 6850/ClO4 DOD | | | Water | 10mL | |
| 20 | EQ2400343-02 | LCS | | 6850/ClO4 | | | Liquid | 10mL | |
| 21 | EQ2400343-03 | DLCS | | 6850/ClO4 | | | Liquid | 10mL | |
| 22 | EQ2400343-04 | MB | | 6850/ClO4 | | | Liquid | 10mL | |
| 23 | EQ2400343-05 | ICS | | 6850/ClO4 | | | Liquid | 10mL | |

**Spiking Solutions**

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400343-02 10.00µL EQ2400343-02 10.00µL EQ2400343-03 10.00µL EQ2400343-03 10.00µL EQ2400343-05 10.00µL EQ2400343-05 10.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400343-05 20.00µL EQ2400343-05 20.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400696-001 100.00µL E2400696-002 100.00µL E2400696-003 100.00µL E2400696-004 100.00µL E2400696-005 100.00µL E2400696-006 100.00µL

# *Preparation Information Benchsheet*

**Prep Run#:** 440489 **Prep WorkFlow:** GenExt28Day **Status:** Prepped

**Team:** Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/24/24 10:15

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| E2400696-007 | 100.00µL | E2400696-008 | 100.00µL | E2400696-009 | 100.00µL | E2400696-010 | 100.00µL | E2400710-001 | 100.00µL | E2400715-001 | 100.00µL |
| E2400715-002 | 100.00µL | E2400715-003 | 100.00µL | E2400715-004 | 100.00µL | E2400715-005 | 100.00µL | E2400715-006 | 100.00µL | E2400715-007 | 100.00µL |
| E2400715-008 | 100.00µL | EQ2400343-02 | 100.00µL | EQ2400343-02 | 100.00µL | EQ2400343-03 | 100.00µL | EQ2400343-03 | 100.00µL | EQ2400343-04 | 100.00µL |
| EQ2400343-04 | 100.00µL | EQ2400343-05 | 100.00µL | EQ2400343-05 | 100.00µL | | | | | | |

## Preparation Materials

| | | | |
|---|---|---|---|
| 6850 0.45um syringe filters | 6850 0.45 SYRING FILTER (229979) | 6850 Luer-Lok Syringes | Luer Lok Syringes (231696) |

## Preparation Steps

Step: Preparation
Started: 6/24/24 10:15
Finished: 6/24/24 11:30
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

# Analytical Results

**ALS Environmental - Houston Specialties Laboratory**
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**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400715 |
| **Project:** | HS24061218 | **Date Collected:** | 6/17/24 0720 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | 1824DOTTMW02_061724 | **Units:** | µg/L |
| **Lab Code:** | E2400715-001 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | **80600** | | 1000 | 500 | 250 | 10000 | 6/24/24 | 6/25/24 14:28 | 440489 | 845503 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400715 |
| **Project:** | HS24061218 | **Date Collected:** | 6/17/24 0805 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | 18WW18_061724 | **Units:** | µg/L |
| **Lab Code:** | E2400715-002 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | U | 1.00 | 0.500 | 0.250 | 10 | 6/24/24 | 6/25/24 14:33 | 440489 | 845503 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400715 |
| **Project:** | HS24061218 | **Date Collected:** | 6/17/24 0805 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | CO3_061724 | **Units:** | µg/L |
| **Lab Code:** | E2400715-003 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | **43.6** | | 0.100 | 0.0500 | 0.0250 | 1 | 6/24/24 | 6/24/24 16:04 | 440489 | 845501 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400715 |
| **Project:** | HS24061218 | **Date Collected:** | 6/17/24 0950 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | 1824DOTTMW01_061724 | **Units:** | µg/L |
| **Lab Code:** | E2400715-004 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | **4.99** | | 1.00 | 0.500 | 0.250 | 10 | 6/24/24 | 6/25/24 14:39 | 440489 | 845503 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400715 |
| **Project:** | HS24061218 | **Date Collected:** | 6/17/24 1035 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | 18CPTMW18_061724 | **Units:** | µg/L |
| **Lab Code:** | E2400715-005 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | U | 1.00 | 0.500 | 0.250 | 10 | 6/24/24 | 6/25/24 14:45 | 440489 | 845503 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400715 |
| **Project:** | HS24061218 | **Date Collected:** | 6/17/24 1120 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | 1824DOTTMW03_061724 | **Units:** | µg/L |
| **Lab Code:** | E2400715-006 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | U | 0.100 | 0.0500 | 0.0250 | 1 | 6/24/24 | 6/24/24 16:21 | 440489 | 845501 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400715 |
| **Project:** | HS24061218 | **Date Collected:** | 6/17/24 1205 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | MW19_061724 | **Units:** | µg/L |
| **Lab Code:** | E2400715-007 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | U | 1.00 | 0.500 | 0.250 | 10 | 6/24/24 | 6/25/24 15:01 | 440489 | 845503 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400715 |
| **Project:** | HS24061218 | **Date Collected:** | 6/17/24 1245 |
| **Sample Matrix:** | Water | **Date Received:** | 6/19/24 |
| **Sample Name:** | MW18_061724 | **Units:** | µg/L |
| **Lab Code:** | E2400715-008 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | U | 0.100 | 0.0500 | 0.0250 | 1 | 6/24/24 | 6/24/24 16:32 | 440489 | 845501 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400715 |
| **Project:** | HS24061218 | **Date Collected:** | NA |
| **Sample Matrix:** | Water | **Date Received:** | NA |
| **Sample Name:** | Method Blank | **Units:** | µg/L |
| **Lab Code:** | EQ2400343-04 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | U | 0.100 | 0.0500 | 0.0250 | 1 | 6/24/24 | 6/24/24 13:40 | 440489 | 845501 | |

# Accuracy & Precision

**ALS Environmental - Houston Specialties Laboratory**
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

**ALS Group USA, Corp.**
**dba ALS Environmental**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400715 |
| **Project:** | HS24061218 | **Date Analyzed:** | 06/24/24 |
| **Sample Matrix:** | Water | **Date Extracted:** | 06/24/24 |

**Duplicate Lab Control Sample Summary**
**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

| | | | |
|---|---|---|---|
| **Analysis Method:** | 6850 | **Units:** | ug/L |
| **Prep Method:** | Method | **Basis:** | NA |
| | | **Analysis Lot:** | 845501 |

| | Lab Control Sample EQ2400343-02 | | | Duplicate Lab Control Sample EQ2400343-03 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Analyte Name** | **Result** | **Spike Amount** | **% Rec** | **Result** | **Spike Amount** | **% Rec** | **% Rec Limits** | **RPD** | **RPD Limit** |
| Perchlorate | 0.110 | 0.100 | 110 | 0.114 | 0.100 | 114 | 84-119 | 4 | 15 |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400715 |
| **Project:** | HS24061218 | **Date Collected:** | NA |
| **Sample Matrix:** | Water | **Date Received:** | NA |
| **Sample Name:** | Lab Control Sample | **Units:** | µg/L |
| **Lab Code:** | EQ2400343-02 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | **0.110** | | 0.100 | 0.0500 | 0.0250 | 1 | 6/24/24 | 6/24/24 13:46 | 440489 | 845501 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2400715 |
| **Project:** | HS24061218 | **Date Collected:** | NA |
| **Sample Matrix:** | Water | **Date Received:** | NA |
| **Sample Name:** | Duplicate Lab Control Sample | **Units:** | µg/L |
| **Lab Code:** | EQ2400343-03 | **Basis:** | NA |

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

**Analytical Method:** 6850
**Prep Method:** Method

| Analyte Name | Result | Q | LOQ | LOD | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | **0.114** | | 0.100 | 0.0500 | 0.0250 | 1 | 6/24/24 | 6/24/24 13:57 | 440489 | 845501 | |

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **ALS Environmental-Houston**

Project HS24061218
Workorder 3366036
Report ID 334019 on 6/30/2024

## Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jun 26, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Dayna Fisher - ALS Environmental-Houston
Jumoke Lawal - ALS Environmental-Houston
Luis Aguilar - ALS Houston

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

Sarah Leung

**Sarah Leung** *(ALS Digital Signature)*
Project Coordinator

**Project** HS24061218
**Workorder** 3366036

## Sample Summary

| Lab ID | Sample ID | Matrix | Date Collected | Date Received | Collector | Collection Company |
|---|---|---|---|---|---|---|
| 3366036001 | HS24061218-01 | Ground Water | 06/17/2024 07:20 | 06/26/2024 09:36 | CBC | Collected By Client |
| 3366036002 | HS24061218-02 | Ground Water | 06/17/2024 08:05 | 06/26/2024 09:36 | CBC | Collected By Client |
| 3366036003 | HS24061218-03 | Ground Water | 06/17/2024 08:05 | 06/26/2024 09:36 | CBC | Collected By Client |
| 3366036004 | HS24061218-04 | Ground Water | 06/17/2024 09:50 | 06/26/2024 09:36 | CBC | Collected By Client |
| 3366036005 | HS24061218-05 | Ground Water | 06/17/2024 10:35 | 06/26/2024 09:36 | CBC | Collected By Client |
| 3366036006 | HS24061218-06 | Ground Water | 06/17/2024 11:20 | 06/26/2024 09:36 | CBC | Collected By Client |
| 3366036007 | HS24061218-07 | Ground Water | 06/17/2024 12:05 | 06/26/2024 09:36 | CBC | Collected By Client |
| 3366036008 | HS24061218-08 | Ground Water | 06/17/2024 12:45 | 06/26/2024 09:36 | CBC | Collected By Client |
| 3366036009 | HS24061218-09 | Ground Water | 06/17/2024 00:00 | 06/26/2024 09:36 | CBC | Collected By Client |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Reference

### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

### Standard Acronyms/Flags

| | |
|---|---|
| J | Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte |
| U | Indicates that the analyte was Not Detected (ND) above the MDL |
| N | Indicates presumptive evidence of the presence of a compound |
| MDL | Method Detection Limit |
| PQL | Practical Quantitation Limit |
| RDL | Practical Quantitation Limit for this Project |
| ND | Not Detected - indicates that the analyte was Not Detected |
| Cntr | Analysis was performed using this container |
| RegLmt | Regulatory Limit |
| LCS | Laboratory Control Sample |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| DUP | Sample Duplicate |
| %Rec | Percent Recovery |
| RPD | Relative Percent Difference |
| LOD | DoD Limit of Detection |
| LOQ | DoD Limit of Quantitation |
| DL | DoD Detection Limit |
| I | Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL) |
| (S) | Surrogate Compound |
| NC | Not Calculated |
| * | Result outside of QC limits |
| # | Please reference the result in the Results Section for analyte-level flags. |



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**Project** HS24061218
**Workorder** 3366036

## Project Notations

## Sample Notations

| Lab ID | Sample ID |
|---|---|

## Result Notations

| Notation Ref. |
|---|



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**Project** HS24061218
**Workorder** 3366036

## Detected Results Summary

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-01 | Collected | 06/17/2024 07:20 |
| Lab Sample ID | 3366036001 | Lab Receipt | 06/26/2024 09:36 |

| Compound | Result | Units | LOQ | LOD | DL | Method | Flag |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANICS** | | | | | | | |
| 1,1-Dichloroethane | 0.75J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |
| Chloroform | 1.8 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |
| cis-1,2-Dichloroethene | 13.3 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |
| Trichloroethene | 254 | ug/L | 5.0 | 3.8 | 1.7 | SW846 8260D | # |
| Vinyl Chloride | 3.0 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |



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**Project** HS24061218
**Workorder** 3366036

## Detected Results Summary

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-02 | Collected | 06/17/2024 08:05 |
| Lab Sample ID | 3366036002 | Lab Receipt | 06/26/2024 09:36 |

| Compound | Result | Units | LOQ | LOD | DL | Method | Flag |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANICS** | | | | | | | |
| Trichloroethene | 0.93J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |



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**Project** HS24061218
**Workorder** 3366036

## Detected Results Summary

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-07 | Collected | 06/17/2024 12:05 |
| Lab Sample ID | 3366036007 | Lab Receipt | 06/26/2024 09:36 |

| Compound | Result | Units | LOQ | LOD | DL | Method | Flag |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANICS** | | | | | | | |
| 1,2-Dichloroethane | 0.48J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |
| cis-1,2-Dichloroethene | 4.3 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |
| Trichloroethene | 2.0 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Detected Results Summary

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-08 | Collected | 06/17/2024 12:45 |
| Lab Sample ID | 3366036008 | Lab Receipt | 06/26/2024 09:36 |

| Compound | Result | Units | LOQ | LOD | DL | Method | Flag |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANICS** | | | | | | | |
| Trichloroethene | 2.3 | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | # |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-01 | Collected | 06/17/2024 07:20 |
| Lab Sample ID | 3366036001 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 1,1-Dichloroethane | 0.75J | J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 1,1-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 1,2-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Benzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Chloroform | 1.8 | | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Chloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| cis-1,2-Dichloroethene | 13.3 | | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-01 | Collected | 06/17/2024 07:20 |
| Lab Sample ID | 3366036001 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Tetrachloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Trichloroethene | 254 | | ug/L | 5.0 | 3.8 | 1.7 | SW846 8260D | 5 | 06/28/2024 17:11 | TMP | B |
| Trichlorofluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |
| Vinyl Chloride | 3.0 | | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:34 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 109% | 81 – 118 | 06/28/2024 17:11 | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 103% | 81 – 118 | 06/27/2024 22:34 | |
| 4-Bromofluorobenzene | 460-00-4 | 97.5% | 85 – 114 | 06/28/2024 17:11 | |
| 4-Bromofluorobenzene | 460-00-4 | 104% | 85 – 114 | 06/27/2024 22:34 | |
| Dibromofluoromethane | 1868-53-7 | 99.1% | 80 – 119 | 06/28/2024 17:11 | |
| Dibromofluoromethane | 1868-53-7 | 95.9% | 80 – 119 | 06/27/2024 22:34 | |
| Toluene-d8 | 2037-26-5 | 106% | 89 – 112 | 06/28/2024 17:11 | |
| Toluene-d8 | 2037-26-5 | 103% | 89 – 112 | 06/27/2024 22:34 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-02 | Collected | 06/17/2024 08:05 |
| Lab Sample ID | 3366036002 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 1,1-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 1,1-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 1,2-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Benzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Chloroform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Chloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-02 | Collected | 06/17/2024 08:05 |
| Lab Sample ID | 3366036002 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Tetrachloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Trichloroethene | 0.93J | J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Trichlorofluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |
| Vinyl Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 22:54 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 102% | 81 – 118 | 06/27/2024 22:54 | |
| 4-Bromofluorobenzene | 460-00-4 | 99.4% | 85 – 114 | 06/27/2024 22:54 | |
| Dibromofluoromethane | 1868-53-7 | 92.8% | 80 – 119 | 06/27/2024 22:54 | |
| Toluene-d8 | 2037-26-5 | 102% | 89 – 112 | 06/27/2024 22:54 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-03 | Collected | 06/17/2024 08:05 |
| Lab Sample ID | 3366036003 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 1,1-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 1,1-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 1,2-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Benzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Chloroform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Chloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-03 | Collected | 06/17/2024 08:05 |
| Lab Sample ID | 3366036003 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Tetrachloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Trichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Trichlorofluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |
| Vinyl Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:14 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 105% | 81 – 118 | 06/27/2024 23:14 | |
| 4-Bromofluorobenzene | 460-00-4 | 94.2% | 85 – 114 | 06/27/2024 23:14 | |
| Dibromofluoromethane | 1868-53-7 | 94.9% | 80 – 119 | 06/27/2024 23:14 | |
| Toluene-d8 | 2037-26-5 | 102% | 89 – 112 | 06/27/2024 23:14 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-04 | Collected | 06/17/2024 09:50 |
| Lab Sample ID | 3366036004 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 1,1-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 1,1-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 1,2-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Benzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Chloroform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Chloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-04 | Collected | 06/17/2024 09:50 |
| Lab Sample ID | 3366036004 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Tetrachloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Trichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Trichlorofluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |
| Vinyl Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:35 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 102% | 81 – 118 | 06/27/2024 23:35 | |
| 4-Bromofluorobenzene | 460-00-4 | 94% | 85 – 114 | 06/27/2024 23:35 | |
| Dibromofluoromethane | 1868-53-7 | 92.1% | 80 – 119 | 06/27/2024 23:35 | |
| Toluene-d8 | 2037-26-5 | 97.5% | 89 – 112 | 06/27/2024 23:35 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-05 | Collected | 06/17/2024 10:35 |
| Lab Sample ID | 3366036005 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 1,1-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 1,1-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 1,2-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Benzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Chloroform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Chloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-05 | Collected | 06/17/2024 10:35 |
| Lab Sample ID | 3366036005 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Tetrachloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Trichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Trichlorofluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |
| Vinyl Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 23:55 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 104% | 81 – 118 | 06/27/2024 23:55 | |
| 4-Bromofluorobenzene | 460-00-4 | 93.4% | 85 – 114 | 06/27/2024 23:55 | |
| Dibromofluoromethane | 1868-53-7 | 94.9% | 80 – 119 | 06/27/2024 23:55 | |
| Toluene-d8 | 2037-26-5 | 101% | 89 – 112 | 06/27/2024 23:55 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-06 | Collected | 06/17/2024 11:20 |
| Lab Sample ID | 3366036006 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 1,1-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 1,1-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 1,2-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Benzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Chloroform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Chloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-06 | Collected | 06/17/2024 11:20 |
| Lab Sample ID | 3366036006 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Tetrachloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Trichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Trichlorofluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |
| Vinyl Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:16 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 101% | 81 – 118 | 06/28/2024 00:16 | |
| 4-Bromofluorobenzene | 460-00-4 | 100% | 85 – 114 | 06/28/2024 00:16 | |
| Dibromofluoromethane | 1868-53-7 | 89.5% | 80 – 119 | 06/28/2024 00:16 | |
| Toluene-d8 | 2037-26-5 | 101% | 89 – 112 | 06/28/2024 00:16 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-07 | Collected | 06/17/2024 12:05 |
| Lab Sample ID | 3366036007 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 1,1-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 1,1-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 1,2-Dichloroethane | 0.48J | J | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Benzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Chloroform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Chloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| cis-1,2-Dichloroethene | 4.3 | | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-07 | Collected | 06/17/2024 12:05 |
| Lab Sample ID | 3366036007 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Tetrachloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Trichloroethene | 2.0 | | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Trichlorofluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |
| Vinyl Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 04:00 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 104% | 81 – 118 | 06/28/2024 04:00 | |
| 4-Bromofluorobenzene | 460-00-4 | 90.4% | 85 – 114 | 06/28/2024 04:00 | |
| Dibromofluoromethane | 1868-53-7 | 94.9% | 80 – 119 | 06/28/2024 04:00 | |
| Toluene-d8 | 2037-26-5 | 98.8% | 89 – 112 | 06/28/2024 04:00 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-08 | Collected | 06/17/2024 12:45 |
| Lab Sample ID | 3366036008 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 1,1-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 1,1-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 1,2-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Benzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Chloroform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Chloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-08 | Collected | 06/17/2024 12:45 |
| Lab Sample ID | 3366036008 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Tetrachloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Trichloroethene | 2.3 | | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Trichlorofluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |
| Vinyl Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/28/2024 00:36 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 107% | 81 – 118 | 06/28/2024 00:36 | |
| 4-Bromofluorobenzene | 460-00-4 | 102% | 85 – 114 | 06/28/2024 00:36 | |
| Dibromofluoromethane | 1868-53-7 | 98.3% | 80 – 119 | 06/28/2024 00:36 | |
| Toluene-d8 | 2037-26-5 | 104% | 89 – 112 | 06/28/2024 00:36 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-09 | Collected | 06/17/2024 00:00 |
| Lab Sample ID | 3366036009 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 1,1,1-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 1,1,2,2-Tetrachloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 1,1,2-Trichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 1,1-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 1,1-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 1,1-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 1,2,3-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 1,2,3-Trichloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 1,2,4-Trichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 1,2,4-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 1,2-Dibromo-3-chloropropane | 2.5U | U | ug/L | 5.0 | 2.5 | 1.6 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 1,2-Dibromoethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 1,2-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 1,2-Dichloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 1,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 1,3,5-Trimethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 1,3-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 1,3-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 1,4-Dichlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 2,2-Dichloropropane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 2-Butanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 2-Hexanone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| 4-Methyl-2-Pentanone(MIBK) | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Acetone | 3.8U | U | ug/L | 5.0 | 3.8 | 1.6 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Benzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Bromobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.20 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Bromochloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Bromodichloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Bromoform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Bromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Carbon Disulfide | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Carbon Tetrachloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Chlorobenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Chlorodibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Chloroethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Chloroform | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Chloromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| cis-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| cis-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Dibromomethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Dichlorodifluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Ethylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Hexachlorobutadiene | 3.8U | U | ug/L | 5.0 | 3.8 | 0.43 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Isopropylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Methylene Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| mp-Xylene | 1.5U | U | ug/L | 2.0 | 1.5 | 0.66 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Results

| | | | |
|---|---|---|---|
| Client Sample ID | HS24061218-09 | Collected | 06/17/2024 00:00 |
| Lab Sample ID | 3366036009 | Lab Receipt | 06/26/2024 09:36 |

## VOLATILE ORGANICS (cont.)

| Compound | Result | Flag | Units | LOQ | LOD | DL | Method | Dilution | Analysis Date/Time | By | Cntr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| n-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| n-Propylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| o-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| o-Xylene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| p-Chlorotoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| p-Isopropyltoluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| sec-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Styrene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| tert-Butylbenzene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Tetrachloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Toluene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| trans-1,2-Dichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| trans-1,3-Dichloropropene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Trichloroethene | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Trichlorofluoromethane | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |
| Vinyl Chloride | 0.75U | U | ug/L | 1.0 | 0.75 | 0.33 | SW846 8260D | 1 | 06/27/2024 21:33 | BST | A |

*SURROGATES*

| Compound | CAS No | Recovery | Limits(%) | Analysis Date/Time | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 101% | 81 – 118 | 06/27/2024 21:33 | |
| 4-Bromofluorobenzene | 460-00-4 | 91.6% | 85 – 114 | 06/27/2024 21:33 | |
| Dibromofluoromethane | 1868-53-7 | 94% | 80 – 119 | 06/27/2024 21:33 | |
| Toluene-d8 | 2037-26-5 | 99.9% | 89 – 112 | 06/27/2024 21:33 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## Sample - Method Cross Reference Table

| Lab ID | Sample ID | Analysis Method | Preparation Method | Leachate Method |
|---|---|---|---|---|
| 3366036001 | HS24061218-01 | SW846 8260D | N/A | |
| | | SW846 8260D | N/A | |
| 3366036002 | HS24061218-02 | SW846 8260D | N/A | |
| 3366036003 | HS24061218-03 | SW846 8260D | N/A | |
| 3366036004 | HS24061218-04 | SW846 8260D | N/A | |
| 3366036005 | HS24061218-05 | SW846 8260D | N/A | |
| 3366036006 | HS24061218-06 | SW846 8260D | N/A | |
| 3366036007 | HS24061218-07 | SW846 8260D | N/A | |
| 3366036008 | HS24061218-08 | SW846 8260D | N/A | |
| 3366036009 | HS24061218-09 | SW846 8260D | N/A | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

# QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS

**QC Batch**

| | | | |
|---|---|---|---|
| QC Batch | 1235666 | Prep Method | N/A |
| Date | N/A | Analysis Method | SW846 8260D |
| Tech. | | | |

**Associated Samples**

| | | | |
|---|---|---|---|
| 3366036004 | 3366036005 | 3366036006 | 3366036007 |
| 3366036002 | 3366036003 | 3366036008 | 3366036009 |
| 3366036001 | | | |

***Method Blank*** 3845608 (MB) Created on 06/27/2024 20:24 For QC Batch 1235666

*RESULTS*

| Compound | CAS No | | Result | Units | LOQ | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,1-Trichloroethane | 71-55-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,2-Trichloroethane | 79-00-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloroethane | 75-34-3 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloroethene | 75-35-4 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloropropene | 563-58-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,3-Trichlorobenzene | 87-61-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,3-Trichloropropane | 96-18-4 | BLK | 2.5U | ug/L | 5.0 | U |
| 1,2,4-Trichlorobenzene | 120-82-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,4-Trimethylbenzene | 95-63-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | BLK | 2.5U | ug/L | 5.0 | U |
| 1,2-Dibromoethane | 106-93-4 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichlorobenzene | 95-50-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichloroethane | 107-06-2 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichloropropane | 78-87-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3,5-Trimethylbenzene | 108-67-8 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3-Dichlorobenzene | 541-73-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3-Dichloropropane | 142-28-9 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,4-Dichlorobenzene | 106-46-7 | BLK | 0.75U | ug/L | 1.0 | U |
| 2,2-Dichloropropane | 594-20-7 | BLK | 0.75U | ug/L | 1.0 | U |
| 2-Butanone | 78-93-3 | BLK | 3.8U | ug/L | 5.0 | U |
| 2-Hexanone | 591-78-6 | BLK | 3.8U | ug/L | 5.0 | U |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | BLK | 3.8U | ug/L | 5.0 | U |
| Acetone | 67-64-1 | BLK | 3.8U | ug/L | 5.0 | U |
| Benzene | 71-43-2 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromobenzene | 108-86-1 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromochloromethane | 74-97-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromodichloromethane | 75-27-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromoform | 75-25-2 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromomethane | 74-83-9 | BLK | 0.75U | ug/L | 1.0 | U |
| Carbon Disulfide | 75-15-0 | BLK | 0.75U | ug/L | 1.0 | U |
| Carbon Tetrachloride | 56-23-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Chlorobenzene | 108-90-7 | BLK | 0.75U | ug/L | 1.0 | U |
| Chlorodibromomethane | 124-48-1 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloroethane | 75-00-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloroform | 67-66-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloromethane | 74-87-3 | BLK | 0.75U | ug/L | 1.0 | U |
| cis-1,2-Dichloroethene | 156-59-2 | BLK | 0.75U | ug/L | 1.0 | U |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result | Units | LOQ | Qualifiers |
|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 10061-01-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Dibromomethane | 74-95-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Dichlorodifluoromethane | 75-71-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Ethylbenzene | 100-41-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Hexachlorobutadiene | 87-68-3 | BLK | 3.8U | ug/L | 5.0 | U |
| Isopropylbenzene | 98-82-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Methylene Chloride | 75-09-2 | BLK | 0.75U | ug/L | 1.0 | U |
| mp-Xylene | 108383/106423 | BLK | 1.5U | ug/L | 2.0 | U |
| Naphthalene | 91-20-3 | BLK | 0.75U | ug/L | 1.0 | U |
| n-Butylbenzene | 104-51-8 | BLK | 0.75U | ug/L | 1.0 | U |
| n-Propylbenzene | 103-65-1 | BLK | 0.75U | ug/L | 1.0 | U |
| o-Chlorotoluene | 95-49-8 | BLK | 0.75U | ug/L | 1.0 | U |
| o-Xylene | 95-47-6 | BLK | 0.75U | ug/L | 1.0 | U |
| p-Chlorotoluene | 106-43-4 | BLK | 0.75U | ug/L | 1.0 | U |
| p-Isopropyltoluene | 99-87-6 | BLK | 0.75U | ug/L | 1.0 | U |
| sec-Butylbenzene | 135-98-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Styrene | 100-42-5 | BLK | 0.75U | ug/L | 1.0 | U |
| tert-Butylbenzene | 98-06-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Tetrachloroethene | 127-18-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Toluene | 108-88-3 | BLK | 0.75U | ug/L | 1.0 | U |
| trans-1,2-Dichloroethene | 156-60-5 | BLK | 0.75U | ug/L | 1.0 | U |
| trans-1,3-Dichloropropene | 10061-02-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Trichloroethene | 79-01-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Trichlorofluoromethane | 75-69-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Vinyl Chloride | 75-01-4 | BLK | 0.75U | ug/L | 1.0 | U |

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | BLK | 29.90 | 30 | 99.7 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | BLK | 29.70 | 30 | 99.1 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | BLK | 27.60 | 30 | 91.9 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | BLK | 30.20 | 30 | 101 | 89 - 112 | |

***Lab Control Standard*** 3845609 (LCS) Created on 06/27/2024 20:24 For QC Batch 1235666

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | LCS | 19.20 | | 20 | 96 | 78 - 124 | | |
| 1,1,1-Trichloroethane | 71-55-6 | LCS | 20.20 | | 20 | 101 | 74 - 131 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | LCS | 22.50 | | 20 | 113 | 71 - 121 | | |
| 1,1,2-Trichloroethane | 79-00-5 | LCS | 21.20 | | 20 | 106 | 80 - 119 | | |
| 1,1-Dichloroethane | 75-34-3 | LCS | 19.70 | | 20 | 98.7 | 77 - 125 | | |
| 1,1-Dichloroethene | 75-35-4 | LCS | 19.40 | | 20 | 97 | 71 - 131 | | |
| 1,1-Dichloropropene | 563-58-6 | LCS | 19.10 | | 20 | 95.6 | 79 - 125 | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | 87-61-6 | LCS | 19.30 | | 20 | 96.5 | 69 - 129 | | |
| 1,2,3-Trichloropropane | 96-18-4 | LCS | 21.90 | | 20 | 110 | 73 - 122 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | LCS | 23.80 | | 20 | 119 | 69 - 130 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | LCS | 20 | | 20 | 100 | 76 - 124 | | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | LCS | 18.90 | | 20 | 94.7 | 62 - 128 | | |
| 1,2-Dibromoethane | 106-93-4 | LCS | 19.10 | | 20 | 95.7 | 77 - 121 | | |
| 1,2-Dichlorobenzene | 95-50-1 | LCS | 22 | | 20 | 110 | 80 - 119 | | |
| 1,2-Dichloroethane | 107-06-2 | LCS | 20 | | 20 | 99.9 | 73 - 128 | | |
| 1,2-Dichloropropane | 78-87-5 | LCS | 20.20 | | 20 | 101 | 78 - 122 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | LCS | 21.20 | | 20 | 106 | 75 - 124 | | |
| 1,3-Dichlorobenzene | 541-73-1 | LCS | 21.60 | | 20 | 108 | 80 - 119 | | |
| 1,3-Dichloropropane | 142-28-9 | LCS | 21.50 | | 20 | 108 | 80 - 119 | | |
| 1,4-Dichlorobenzene | 106-46-7 | LCS | 21.50 | | 20 | 107 | 79 - 118 | | |
| 2,2-Dichloropropane | 594-20-7 | LCS | 21 | | 20 | 105 | 60 - 139 | | |
| 2-Butanone | 78-93-3 | LCS | 105 | | 100 | 105 | 56 - 143 | | |
| 2-Hexanone | 591-78-6 | LCS | 103 | | 100 | 103 | 57 - 139 | | |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | LCS | 102 | | 100 | 102 | 67 - 130 | | |
| Acetone | 67-64-1 | LCS | 112 | | 100 | 112 | 39 - 160 | | |
| Benzene | 71-43-2 | LCS | 19.20 | | 20 | 96 | 79 - 120 | | |
| Bromobenzene | 108-86-1 | LCS | 21.60 | | 20 | 108 | 80 - 120 | | |
| Bromochloromethane | 74-97-5 | LCS | 21.10 | | 20 | 105 | 78 - 123 | | |
| Bromodichloromethane | 75-27-4 | LCS | 18.90 | | 20 | 94.4 | 79 - 125 | | |
| Bromoform | 75-25-2 | LCS | 17.90 | | 20 | 89.6 | 66 - 130 | | |
| Bromomethane | 74-83-9 | LCS | 16.20 | | 20 | 81.2 | 53 - 141 | | |
| Carbon Disulfide | 75-15-0 | LCS | 19 | | 20 | 94.9 | 64 - 133 | | |
| Carbon Tetrachloride | 56-23-5 | LCS | 17.40 | | 20 | 87 | 72 - 136 | | |
| Chlorobenzene | 108-90-7 | LCS | 20.40 | | 20 | 102 | 82 - 118 | | |
| Chlorodibromomethane | 124-48-1 | LCS | 18.50 | | 20 | 92.6 | 74 - 126 | | |
| Chloroethane | 75-00-3 | LCS | 18 | | 20 | 90 | 60 - 138 | | |
| Chloroform | 67-66-3 | LCS | 20.10 | | 20 | 101 | 79 - 124 | | |
| Chloromethane | 74-87-3 | LCS | 17.30 | | 20 | 86.3 | 50 - 139 | | |
| cis-1,2-Dichloroethene | 156-59-2 | LCS | 20.40 | | 20 | 102 | 78 - 123 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | LCS | 18.80 | | 20 | 94.1 | 75 - 124 | | |
| Dibromomethane | 74-95-3 | LCS | 20.60 | | 20 | 103 | 79 - 123 | | |
| Dichlorodifluoromethane | 75-71-8 | LCS | 16.20 | | 20 | 81 | 32 - 152 | | |
| Ethylbenzene | 100-41-4 | LCS | 19.20 | | 20 | 96 | 79 - 121 | | |
| Hexachlorobutadiene | 87-68-3 | LCS | 20.20 | | 20 | 101 | 66 - 134 | | |
| Isopropylbenzene | 98-82-8 | LCS | 22.40 | | 20 | 112 | 72 - 131 | | |
| Methylene Chloride | 75-09-2 | LCS | 19.80 | | 20 | 99 | 74 - 124 | | |
| mp-Xylene | 108383/106423 | LCS | 37.60 | | 40 | 93.9 | 80 - 121 | | |
| Naphthalene | 91-20-3 | LCS | 20 | | 20 | 99.9 | 61 - 128 | | |
| n-Butylbenzene | 104-51-8 | LCS | 21.10 | | 20 | 105 | 75 - 128 | | |
| n-Propylbenzene | 103-65-1 | LCS | 21.20 | | 20 | 106 | 76 - 126 | | |
| o-Chlorotoluene | 95-49-8 | LCS | 21.70 | | 20 | 109 | 79 - 122 | | |
| o-Xylene | 95-47-6 | LCS | 19.10 | | 20 | 95.6 | 78 - 122 | | |
| p-Chlorotoluene | 106-43-4 | LCS | 22.10 | | 20 | 110 | 78 - 122 | | |
| p-Isopropyltoluene | 99-87-6 | LCS | 21.50 | | 20 | 107 | 77 - 127 | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | 135-98-8 | LCS | 21.90 | | 20 | 109 | 77 - 126 | | |
| Styrene | 100-42-5 | LCS | 19.90 | | 20 | 99.4 | 78 - 123 | | |
| tert-Butylbenzene | 98-06-6 | LCS | 21.70 | | 20 | 109 | 78 - 124 | | |
| Tetrachloroethene | 127-18-4 | LCS | 19.60 | | 20 | 97.9 | 74 - 129 | | |
| Toluene | 108-88-3 | LCS | 19.20 | | 20 | 95.8 | 80 - 121 | | |
| trans-1,2-Dichloroethene | 156-60-5 | LCS | 20 | | 20 | 100 | 75 - 124 | | |
| trans-1,3-Dichloropropene | 10061-02-6 | LCS | 19.40 | | 20 | 97.2 | 73 - 127 | | |
| Trichloroethene | 79-01-6 | LCS | 19.10 | | 20 | 95.4 | 79 - 123 | | |
| Trichlorofluoromethane | 75-69-4 | LCS | 17 | | 20 | 84.9 | 65 - 141 | | |
| Vinyl Chloride | 75-01-4 | LCS | 16.70 | | 20 | 83.6 | 58 - 137 | | |

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | LCS | 30.60 | 30 | 102 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | LCS | 30.60 | 30 | 102 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | LCS | 29.80 | 30 | 99.4 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | LCS | 30.90 | 30 | 103 | 89 - 112 | |

***Matrix Spike*** 3845610 (MS) 3366036002 For QC Batch 1235666

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

***Matrix Spike Duplicate*** 3845611 (MSD) 3366036002 For QC Batch 1235666

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | MS | 20.60 | 0 | 20 | 103 | 78 - 124 | | |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | MSD | 19.60 | 0 | 20 | 98.2 | 78 - 124 | RPD 4.86 (Max-30) | |
| 1,1,1-Trichloroethane | 71-55-6 | MS | 23.70 | 0 | 20 | 118 | 74 - 131 | | |
| 1,1,1-Trichloroethane | 71-55-6 | MSD | 22.10 | 0 | 20 | 111 | 74 - 131 | RPD 6.85 (Max-30) | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | MS | 23.50 | 0 | 20 | 118 | 71 - 121 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | MSD | 22.90 | 0 | 20 | 114 | 71 - 121 | RPD 2.92 (Max-30) | |
| 1,1,2-Trichloroethane | 79-00-5 | MS | 22.40 | 0 | 20 | 112 | 80 - 119 | | |
| 1,1,2-Trichloroethane | 79-00-5 | MSD | 21 | 0 | 20 | 105 | 80 - 119 | RPD 6.54 (Max-30) | |
| 1,1-Dichloroethane | 75-34-3 | MS | 23 | 0 | 20 | 115 | 77 - 125 | | |
| 1,1-Dichloroethane | 75-34-3 | MSD | 21.40 | 0 | 20 | 107 | 77 - 125 | RPD 7.46 (Max-30) | |
| 1,1-Dichloroethene | 75-35-4 | MS | 23.30 | 0 | 20 | 116 | 71 - 131 | | |
| 1,1-Dichloroethene | 75-35-4 | MSD | 21.50 | 0 | 20 | 107 | 71 - 131 | RPD 8.09 (Max-30) | |
| 1,1-Dichloropropene | 563-58-6 | MS | 23.10 | 0 | 20 | 116 | 79 - 125 | | |
| 1,1-Dichloropropene | 563-58-6 | MSD | 21.10 | 0 | 20 | 106 | 79 - 125 | RPD 8.94 (Max-30) | |
| 1,2,3-Trichlorobenzene | 87-61-6 | MS | 19.10 | 0 | 20 | 95.6 | 69 - 129 | | |
| 1,2,3-Trichlorobenzene | 87-61-6 | MSD | 18.70 | 0 | 20 | 93.3 | 69 - 129 | RPD 2.42 (Max-30) | |
| 1,2,3-Trichloropropane | 96-18-4 | MS | 22.80 | 0 | 20 | 114 | 73 - 122 | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | 96-18-4 | MSD | 22.60 | 0 | 20 | 113 | 73 - 122 | RPD 1.14 (Max-30) | |
| 1,2,4-Trichlorobenzene | 120-82-1 | MS | 23.40 | 0 | 20 | 117 | 69 - 130 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | MSD | 22.90 | 0 | 20 | 114 | 69 - 130 | RPD 2.38 (Max-30) | |
| 1,2,4-Trimethylbenzene | 95-63-6 | MS | 21.90 | 0 | 20 | 110 | 76 - 124 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | MSD | 21.40 | 0 | 20 | 107 | 76 - 124 | RPD 2.34 (Max-30) | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | MS | 19 | 0 | 20 | 95.2 | 62 - 128 | | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | MSD | 17.70 | 0 | 20 | 88.6 | 62 - 128 | RPD 7.16 (Max-30) | |
| 1,2-Dibromoethane | 106-93-4 | MS | 20.20 | 0 | 20 | 101 | 77 - 121 | | |
| 1,2-Dibromoethane | 106-93-4 | MSD | 19.30 | 0 | 20 | 96.4 | 77 - 121 | RPD 4.64 (Max-30) | |
| 1,2-Dichlorobenzene | 95-50-1 | MS | 23.20 | 0 | 20 | 116 | 80 - 119 | | |
| 1,2-Dichlorobenzene | 95-50-1 | MSD | 22.30 | 0 | 20 | 111 | 80 - 119 | RPD 3.86 (Max-30) | |
| 1,2-Dichloroethane | 107-06-2 | MS | 21.90 | 0 | 20 | 109 | 73 - 128 | | |
| 1,2-Dichloroethane | 107-06-2 | MSD | 20.50 | 0 | 20 | 103 | 73 - 128 | RPD 6.41 (Max-30) | |
| 1,2-Dichloropropane | 78-87-5 | MS | 22.60 | 0 | 20 | 113 | 78 - 122 | | |
| 1,2-Dichloropropane | 78-87-5 | MSD | 21.20 | 0 | 20 | 106 | 78 - 122 | RPD 6.41 (Max-30) | |
| 1,3,5-Trimethylbenzene | 108-67-8 | MS | 23.80 | 0 | 20 | 119 | 75 - 124 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | MSD | 22.90 | 0 | 20 | 115 | 75 - 124 | RPD 3.56 (Max-30) | |
| 1,3-Dichlorobenzene | 541-73-1 | MS | 23.30 | 0 | 20 | 117 | 80 - 119 | | |
| 1,3-Dichlorobenzene | 541-73-1 | MSD | 22.50 | 0 | 20 | 112 | 80 - 119 | RPD 3.69 (Max-30) | |
| 1,3-Dichloropropane | 142-28-9 | MS | 22.80 | 0 | 20 | 114 | 80 - 119 | | |
| 1,3-Dichloropropane | 142-28-9 | MSD | 22 | 0 | 20 | 110 | 80 - 119 | RPD 3.92 (Max-30) | |
| 1,4-Dichlorobenzene | 106-46-7 | MS | 23.10 | 0 | 20 | 116 | 79 - 118 | | |
| 1,4-Dichlorobenzene | 106-46-7 | MSD | 22.20 | 0 | 20 | 111 | 79 - 118 | RPD 3.96 (Max-30) | |
| 2,2-Dichloropropane | 594-20-7 | MS | 21.60 | 0 | 20 | 108 | 60 - 139 | | |
| 2,2-Dichloropropane | 594-20-7 | MSD | 19.70 | 0 | 20 | 98.6 | 60 - 139 | RPD 9.35 (Max-30) | |
| 2-Butanone | 78-93-3 | MS | 102 | 0 | 100 | 102 | 56 - 143 | | |
| 2-Butanone | 78-93-3 | MSD | 97.40 | 0 | 100 | 97.4 | 56 - 143 | RPD 4.92 (Max-30) | |
| 2-Hexanone | 591-78-6 | MS | 103 | 0 | 100 | 103 | 57 - 139 | | |
| 2-Hexanone | 591-78-6 | MSD | 98.80 | 0 | 100 | 98.8 | 57 - 139 | RPD 4.62 (Max-30) | |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | MS | 106 | 0 | 100 | 106 | 67 - 130 | | |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | MSD | 102 | 0 | 100 | 102 | 67 - 130 | RPD 4.01 (Max-30) | |
| Acetone | 67-64-1 | MS | 97.10 | 0 | 100 | 97.1 | 39 - 160 | | |
| Acetone | 67-64-1 | MSD | 93 | 0 | 100 | 93 | 39 - 160 | RPD 4.28 (Max-30) | |
| Benzene | 71-43-2 | MS | 21.80 | 0 | 20 | 109 | 79 - 120 | | |
| Benzene | 71-43-2 | MSD | 20.50 | 0 | 20 | 102 | 79 - 120 | RPD 6.31 (Max-30) | |
| Bromobenzene | 108-86-1 | MS | 23.20 | 0 | 20 | 116 | 80 - 120 | | |
| Bromobenzene | 108-86-1 | MSD | 22.70 | 0 | 20 | 113 | 80 - 120 | RPD 2.17 (Max-30) | |
| Bromochloromethane | 74-97-5 | MS | 22.10 | 0 | 20 | 110 | 78 - 123 | | |
| Bromochloromethane | 74-97-5 | MSD | 21.80 | 0 | 20 | 109 | 78 - 123 | RPD 1.46 (Max-30) | |
| Bromodichloromethane | 75-27-4 | MS | 20.70 | 0 | 20 | 103 | 79 - 125 | | |
| Bromodichloromethane | 75-27-4 | MSD | 18.90 | 0 | 20 | 94.6 | 79 - 125 | RPD 8.78 (Max-30) | |
| Bromoform | 75-25-2 | MS | 18.40 | 0 | 20 | 91.9 | 66 - 130 | | |
| Bromoform | 75-25-2 | MSD | 17.90 | 0 | 20 | 89.6 | 66 - 130 | RPD 2.55 (Max-30) | |
| Bromomethane | 74-83-9 | MS | 21.60 | 0 | 20 | 108 | 53 - 141 | | |
| Bromomethane | 74-83-9 | MSD | 19.70 | 0 | 20 | 98.7 | 53 - 141 | RPD 8.99 (Max-30) | |
| Carbon Disulfide | 75-15-0 | MS | 20.80 | 0 | 20 | 104 | 64 - 133 | | |
| Carbon Disulfide | 75-15-0 | MSD | 19.50 | 0 | 20 | 97.4 | 64 - 133 | RPD 6.49 (Max-30) | |
| Carbon Tetrachloride | 56-23-5 | MS | 19.80 | 0 | 20 | 98.9 | 72 - 136 | | |
| Carbon Tetrachloride | 56-23-5 | MSD | 18.30 | 0 | 20 | 91.3 | 72 - 136 | RPD 8.04 (Max-30) | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 108-90-7 | MS | 22.50 | 0 | 20 | 113 | 82 - 118 | | |
| Chlorobenzene | 108-90-7 | MSD | 21.30 | 0 | 20 | 107 | 82 - 118 | RPD 5.40 (Max-30) | |
| Chlorodibromomethane | 124-48-1 | MS | 18.90 | 0 | 20 | 94.7 | 74 - 126 | | |
| Chlorodibromomethane | 124-48-1 | MSD | 18.20 | 0 | 20 | 90.8 | 74 - 126 | RPD 4.18 (Max-30) | |
| Chloroethane | 75-00-3 | MS | 21.90 | 0 | 20 | 110 | 60 - 138 | | |
| Chloroethane | 75-00-3 | MSD | 19.90 | 0 | 20 | 99.3 | 60 - 138 | RPD 9.94 (Max-30) | |
| Chloroform | 67-66-3 | MS | 22.20 | 0 | 20 | 111 | 79 - 124 | | |
| Chloroform | 67-66-3 | MSD | 21.10 | 0 | 20 | 105 | 79 - 124 | RPD 5.16 (Max-30) | |
| Chloromethane | 74-87-3 | MS | 21.70 | 0 | 20 | 108 | 50 - 139 | | |
| Chloromethane | 74-87-3 | MSD | 19.50 | 0 | 20 | 97.4 | 50 - 139 | RPD 10.70 (Max-30) | |
| cis-1,2-Dichloroethene | 156-59-2 | MS | 23.10 | 0 | 20 | 115 | 78 - 123 | | |
| cis-1,2-Dichloroethene | 156-59-2 | MSD | 21.30 | 0 | 20 | 107 | 78 - 123 | RPD 7.94 (Max-30) | |
| cis-1,3-Dichloropropene | 10061-01-5 | MS | 19.70 | 0 | 20 | 98.7 | 75 - 124 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | MSD | 18.80 | 0 | 20 | 94.2 | 75 - 124 | RPD 4.66 (Max-30) | |
| Dibromomethane | 74-95-3 | MS | 22.20 | 0 | 20 | 111 | 79 - 123 | | |
| Dibromomethane | 74-95-3 | MSD | 20.40 | 0 | 20 | 102 | 79 - 123 | RPD 8.58 (Max-30) | |
| Dichlorodifluoromethane | 75-71-8 | MS | 20.70 | 0 | 20 | 103 | 32 - 152 | | |
| Dichlorodifluoromethane | 75-71-8 | MSD | 18.80 | 0 | 20 | 94.1 | 32 - 152 | RPD 9.25 (Max-30) | |
| Ethylbenzene | 100-41-4 | MS | 21.40 | 0 | 20 | 107 | 79 - 121 | | |
| Ethylbenzene | 100-41-4 | MSD | 20.10 | 0 | 20 | 101 | 79 - 121 | RPD 6.16 (Max-30) | |
| Hexachlorobutadiene | 87-68-3 | MS | 20.80 | 0 | 20 | 104 | 66 - 134 | | |
| Hexachlorobutadiene | 87-68-3 | MSD | 20.80 | 0 | 20 | 104 | 66 - 134 | RPD 0.28 (Max-30) | |
| Isopropylbenzene | 98-82-8 | MS | 25.40 | 0 | 20 | 127 | 72 - 131 | | |
| Isopropylbenzene | 98-82-8 | MSD | 24.40 | 0 | 20 | 122 | 72 - 131 | RPD 3.98 (Max-30) | |
| Methylene Chloride | 75-09-2 | MS | 21.80 | 0 | 20 | 109 | 74 - 124 | | |
| Methylene Chloride | 75-09-2 | MSD | 20.40 | 0 | 20 | 102 | 74 - 124 | RPD 6.73 (Max-30) | |
| mp-Xylene | 108383/106423 | MS | 42.40 | 0 | 40 | 106 | 80 - 121 | | |
| mp-Xylene | 108383/106423 | MSD | 40.40 | 0 | 40 | 101 | 80 - 121 | RPD 4.71 (Max-30) | |
| Naphthalene | 91-20-3 | MS | 19.30 | 0 | 20 | 96.7 | 61 - 128 | | |
| Naphthalene | 91-20-3 | MSD | 19 | 0 | 20 | 95.2 | 61 - 128 | RPD 1.61 (Max-30) | |
| n-Butylbenzene | 104-51-8 | MS | 22.80 | 0 | 20 | 114 | 75 - 128 | | |
| n-Butylbenzene | 104-51-8 | MSD | 22.90 | 0 | 20 | 114 | 75 - 128 | RPD 0.48 (Max-30) | |
| n-Propylbenzene | 103-65-1 | MS | 24 | 0 | 20 | 120 | 76 - 126 | | |
| n-Propylbenzene | 103-65-1 | MSD | 23.10 | 0 | 20 | 116 | 76 - 126 | RPD 3.62 (Max-30) | |
| o-Chlorotoluene | 95-49-8 | MS | 23.90 | 0 | 20 | 120 | 79 - 122 | | |
| o-Chlorotoluene | 95-49-8 | MSD | 23.30 | 0 | 20 | 117 | 79 - 122 | RPD 2.52 (Max-30) | |
| o-Xylene | 95-47-6 | MS | 21.20 | 0 | 20 | 106 | 78 - 122 | | |
| o-Xylene | 95-47-6 | MSD | 19.90 | 0 | 20 | 99.6 | 78 - 122 | RPD 6.39 (Max-30) | |
| p-Chlorotoluene | 106-43-4 | MS | 24 | 0 | 20 | 120 | 78 - 122 | | |
| p-Chlorotoluene | 106-43-4 | MSD | 23.30 | 0 | 20 | 117 | 78 - 122 | RPD 2.72 (Max-30) | |
| p-Isopropyltoluene | 99-87-6 | MS | 24.30 | 0 | 20 | 122 | 77 - 127 | | |
| p-Isopropyltoluene | 99-87-6 | MSD | 23 | 0 | 20 | 115 | 77 - 127 | RPD 5.42 (Max-30) | |
| sec-Butylbenzene | 135-98-8 | MS | 25.20 | 0 | 20 | 126 | 77 - 126 | | |
| sec-Butylbenzene | 135-98-8 | MSD | 24.30 | 0 | 20 | 122 | 77 - 126 | RPD 3.43 (Max-30) | |
| Styrene | 100-42-5 | MS | 21.90 | 0 | 20 | 109 | 78 - 123 | | |
| Styrene | 100-42-5 | MSD | 21 | 0 | 20 | 105 | 78 - 123 | RPD 4.26 (Max-30) | |
| tert-Butylbenzene | 98-06-6 | MS | 24.80 | 0 | 20 | 124 | 78 - 124 | | |
| tert-Butylbenzene | 98-06-6 | MSD | 23.90 | 0 | 20 | 120 | 78 - 124 | RPD 3.71 (Max-30) | |



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RIGHT SOLUTIONS | RIGHT PARTNER

**Project** HS24061218
**Workorder** 3366036

## QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 127-18-4 | MS | 21.10 | 0 | 20 | 106 | 74 - 129 | | |
| Tetrachloroethene | 127-18-4 | MSD | 20.30 | 0 | 20 | 102 | 74 - 129 | RPD 3.88 (Max-30) | |
| Toluene | 108-88-3 | MS | 21.40 | 0 | 20 | 107 | 80 - 121 | | |
| Toluene | 108-88-3 | MSD | 20.30 | 0 | 20 | 101 | 80 - 121 | RPD 5.38 (Max-30) | |
| trans-1,2-Dichloroethene | 156-60-5 | MS | 23 | 0 | 20 | 115 | 75 - 124 | | |
| trans-1,2-Dichloroethene | 156-60-5 | MSD | 21.10 | 0 | 20 | 106 | 75 - 124 | RPD 8.76 (Max-30) | |
| trans-1,3-Dichloropropene | 10061-02-6 | MS | 20 | 0 | 20 | 99.9 | 73 - 127 | | |
| trans-1,3-Dichloropropene | 10061-02-6 | MSD | 19 | 0 | 20 | 95.1 | 73 - 127 | RPD 4.91 (Max-30) | |
| Trichloroethene | 79-01-6 | MS | 22.40 | 0.93 | 20 | 107 | 79 - 123 | | |
| Trichloroethene | 79-01-6 | MSD | 20.90 | 0.93 | 20 | 99.8 | 79 - 123 | RPD 6.78 (Max-30) | |
| Trichlorofluoromethane | 75-69-4 | MS | 21.70 | 0 | 20 | 109 | 65 - 141 | | |
| Trichlorofluoromethane | 75-69-4 | MSD | 19.60 | 0 | 20 | 98.2 | 65 - 141 | RPD 10 (Max-30) | |
| Vinyl Chloride | 75-01-4 | MS | 21.50 | 0 | 20 | 108 | 58 - 137 | | |
| Vinyl Chloride | 75-01-4 | MSD | 19.50 | 0 | 20 | 97.3 | 58 - 137 | RPD 10.20 (Max-30) | |

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | MS | 32.40 | 30 | 108 | 81 - 118 | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | MSD | 32.60 | 30 | 109 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | MS | 30 | 30 | 100 | 85 - 114 | |
| 4-Bromofluorobenzene | 460-00-4 | MSD | 31 | 30 | 103 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | MS | 29.10 | 30 | 97.1 | 80 - 119 | |
| Dibromofluoromethane | 1868-53-7 | MSD | 30.80 | 30 | 103 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | MS | 30.20 | 30 | 101 | 89 - 112 | |
| Toluene-d8 | 2037-26-5 | MSD | 31 | 30 | 103 | 89 - 112 | |

**QC Batch**

| | | | |
|---|---|---|---|
| QC Batch | 1236144 | Prep Method | N/A |
| Date | N/A | Analysis Method | SW846 8260D |
| Tech. | | | |

**Associated Samples**

3366036001

***Method Blank*** 3845975 (MB) Created on 06/28/2024 10:24 For QC Batch 1236144

*RESULTS*

| Compound | CAS No | | Result | Units | LOQ | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,1-Trichloroethane | 71-55-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1,2-Trichloroethane | 79-00-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloroethane | 75-34-3 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloroethene | 75-35-4 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,1-Dichloropropene | 563-58-6 | BLK | 0.75U | ug/L | 1.0 | U |



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**Project** HS24061218
**Workorder** 3366036

QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result | Units | LOQ | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | 87-61-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,3-Trichloropropane | 96-18-4 | BLK | 2.5U | ug/L | 5.0 | U |
| 1,2,4-Trichlorobenzene | 120-82-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2,4-Trimethylbenzene | 95-63-6 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | BLK | 2.5U | ug/L | 5.0 | U |
| 1,2-Dibromoethane | 106-93-4 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichlorobenzene | 95-50-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichloroethane | 107-06-2 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,2-Dichloropropane | 78-87-5 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3,5-Trimethylbenzene | 108-67-8 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3-Dichlorobenzene | 541-73-1 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,3-Dichloropropane | 142-28-9 | BLK | 0.75U | ug/L | 1.0 | U |
| 1,4-Dichlorobenzene | 106-46-7 | BLK | 0.75U | ug/L | 1.0 | U |
| 2,2-Dichloropropane | 594-20-7 | BLK | 0.75U | ug/L | 1.0 | U |
| 2-Butanone | 78-93-3 | BLK | 3.8U | ug/L | 5.0 | U |
| 2-Hexanone | 591-78-6 | BLK | 3.8U | ug/L | 5.0 | U |
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | BLK | 3.8U | ug/L | 5.0 | U |
| Acetone | 67-64-1 | BLK | 3.8U | ug/L | 5.0 | U |
| Benzene | 71-43-2 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromobenzene | 108-86-1 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromochloromethane | 74-97-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromodichloromethane | 75-27-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromoform | 75-25-2 | BLK | 0.75U | ug/L | 1.0 | U |
| Bromomethane | 74-83-9 | BLK | 0.75U | ug/L | 1.0 | U |
| Carbon Disulfide | 75-15-0 | BLK | 0.75U | ug/L | 1.0 | U |
| Carbon Tetrachloride | 56-23-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Chlorobenzene | 108-90-7 | BLK | 0.75U | ug/L | 1.0 | U |
| Chlorodibromomethane | 124-48-1 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloroethane | 75-00-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloroform | 67-66-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Chloromethane | 74-87-3 | BLK | 0.75U | ug/L | 1.0 | U |
| cis-1,2-Dichloroethene | 156-59-2 | BLK | 0.75U | ug/L | 1.0 | U |
| cis-1,3-Dichloropropene | 10061-01-5 | BLK | 0.75U | ug/L | 1.0 | U |
| Dibromomethane | 74-95-3 | BLK | 0.75U | ug/L | 1.0 | U |
| Dichlorodifluoromethane | 75-71-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Ethylbenzene | 100-41-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Hexachlorobutadiene | 87-68-3 | BLK | 3.8U | ug/L | 5.0 | U |
| Isopropylbenzene | 98-82-8 | BLK | 0.75U | ug/L | 1.0 | U |
| Methylene Chloride | 75-09-2 | BLK | 0.75U | ug/L | 1.0 | U |
| mp-Xylene | 108383/106423 | BLK | 1.5U | ug/L | 2.0 | U |
| Naphthalene | 91-20-3 | BLK | 0.75U | ug/L | 1.0 | U |
| n-Butylbenzene | 104-51-8 | BLK | 0.75U | ug/L | 1.0 | U |
| n-Propylbenzene | 103-65-1 | BLK | 0.75U | ug/L | 1.0 | U |
| o-Chlorotoluene | 95-49-8 | BLK | 0.75U | ug/L | 1.0 | U |
| o-Xylene | 95-47-6 | BLK | 0.75U | ug/L | 1.0 | U |
| p-Chlorotoluene | 106-43-4 | BLK | 0.75U | ug/L | 1.0 | U |
| p-Isopropyltoluene | 99-87-6 | BLK | 0.75U | ug/L | 1.0 | U |
| sec-Butylbenzene | 135-98-8 | BLK | 0.75U | ug/L | 1.0 | U |



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QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result | Units | LOQ | Qualifiers |
|---|---|---|---|---|---|---|
| Styrene | 100-42-5 | BLK | 0.75U | ug/L | 1.0 | U |
| tert-Butylbenzene | 98-06-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Tetrachloroethene | 127-18-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Toluene | 108-88-3 | BLK | 0.75U | ug/L | 1.0 | U |
| trans-1,2-Dichloroethene | 156-60-5 | BLK | 0.75U | ug/L | 1.0 | U |
| trans-1,3-Dichloropropene | 10061-02-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Trichloroethene | 79-01-6 | BLK | 0.75U | ug/L | 1.0 | U |
| Trichlorofluoromethane | 75-69-4 | BLK | 0.75U | ug/L | 1.0 | U |
| Vinyl Chloride | 75-01-4 | BLK | 0.75U | ug/L | 1.0 | U |

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | BLK | 30.60 | 30 | 102 | 81 - 118 | |
| 4-Bromofluorobenzene | 460-00-4 | BLK | 26.80 | 30 | 89.4 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | BLK | 27.60 | 30 | 92 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | BLK | 30.30 | 30 | 101 | 89 - 112 | |

***Lab Control Standard*** 3845976 (LCS) Created on 06/28/2024 10:24 For QC Batch 1236144

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | LCS | 19.10 | | 20 | 95.6 | 78 - 124 | | |
| 1,1,1-Trichloroethane | 71-55-6 | LCS | 21.50 | | 20 | 108 | 74 - 131 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | LCS | 21.60 | | 20 | 108 | 71 - 121 | | |
| 1,1,2-Trichloroethane | 79-00-5 | LCS | 20.70 | | 20 | 104 | 80 - 119 | | |
| 1,1-Dichloroethane | 75-34-3 | LCS | 20.80 | | 20 | 104 | 77 - 125 | | |
| 1,1-Dichloroethene | 75-35-4 | LCS | 21.50 | | 20 | 108 | 71 - 131 | | |
| 1,1-Dichloropropene | 563-58-6 | LCS | 20.60 | | 20 | 103 | 79 - 125 | | |
| 1,2,3-Trichlorobenzene | 87-61-6 | LCS | 19.50 | | 20 | 97.3 | 69 - 129 | | |
| 1,2,3-Trichloropropane | 96-18-4 | LCS | 21.20 | | 20 | 106 | 73 - 122 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | LCS | 24.10 | | 20 | 121 | 69 - 130 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | LCS | 20.10 | | 20 | 101 | 76 - 124 | | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | LCS | 18.90 | | 20 | 94.7 | 62 - 128 | | |
| 1,2-Dibromoethane | 106-93-4 | LCS | 19 | | 20 | 94.8 | 77 - 121 | | |
| 1,2-Dichlorobenzene | 95-50-1 | LCS | 21.90 | | 20 | 110 | 80 - 119 | | |
| 1,2-Dichloroethane | 107-06-2 | LCS | 19.70 | | 20 | 98.5 | 73 - 128 | | |
| 1,2-Dichloropropane | 78-87-5 | LCS | 20.80 | | 20 | 104 | 78 - 122 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | LCS | 21.20 | | 20 | 106 | 75 - 124 | | |
| 1,3-Dichlorobenzene | 541-73-1 | LCS | 22.10 | | 20 | 110 | 80 - 119 | | |
| 1,3-Dichloropropane | 142-28-9 | LCS | 21.60 | | 20 | 108 | 80 - 119 | | |
| 1,4-Dichlorobenzene | 106-46-7 | LCS | 21.80 | | 20 | 109 | 79 - 118 | | |
| 2,2-Dichloropropane | 594-20-7 | LCS | 21.30 | | 20 | 107 | 60 - 139 | | |
| 2-Butanone | 78-93-3 | LCS | 104 | | 100 | 104 | 56 - 143 | | |
| 2-Hexanone | 591-78-6 | LCS | 103 | | 100 | 103 | 57 - 139 | | |



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**Project** HS24061218
**Workorder** 3366036

## QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*RESULTS*

| Compound | CAS No | | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone(MIBK) | 108-10-1 | LCS | 104 | | 100 | 104 | 67 - 130 | | |
| Acetone | 67-64-1 | LCS | 108 | | 100 | 108 | 39 - 160 | | |
| Benzene | 71-43-2 | LCS | 19.90 | | 20 | 99.3 | 79 - 120 | | |
| Bromobenzene | 108-86-1 | LCS | 20.10 | | 20 | 100 | 80 - 120 | | |
| Bromochloromethane | 74-97-5 | LCS | 21.20 | | 20 | 106 | 78 - 123 | | |
| Bromodichloromethane | 75-27-4 | LCS | 18.80 | | 20 | 94.2 | 79 - 125 | | |
| Bromoform | 75-25-2 | LCS | 18.10 | | 20 | 90.3 | 66 - 130 | | |
| Bromomethane | 74-83-9 | LCS | 20 | | 20 | 100 | 53 - 141 | | |
| Carbon Disulfide | 75-15-0 | LCS | 21.10 | | 20 | 106 | 64 - 133 | | |
| Carbon Tetrachloride | 56-23-5 | LCS | 17.40 | | 20 | 87.2 | 72 - 136 | | |
| Chlorobenzene | 108-90-7 | LCS | 20.60 | | 20 | 103 | 82 - 118 | | |
| Chlorodibromomethane | 124-48-1 | LCS | 18.10 | | 20 | 90.4 | 74 - 126 | | |
| Chloroethane | 75-00-3 | LCS | 20.30 | | 20 | 102 | 60 - 138 | | |
| Chloroform | 67-66-3 | LCS | 20.80 | | 20 | 104 | 79 - 124 | | |
| Chloromethane | 74-87-3 | LCS | 20.10 | | 20 | 100 | 50 - 139 | | |
| cis-1,2-Dichloroethene | 156-59-2 | LCS | 21.10 | | 20 | 106 | 78 - 123 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | LCS | 18.90 | | 20 | 94.3 | 75 - 124 | | |
| Dibromomethane | 74-95-3 | LCS | 20.20 | | 20 | 101 | 79 - 123 | | |
| Dichlorodifluoromethane | 75-71-8 | LCS | 20.10 | | 20 | 101 | 32 - 152 | | |
| Ethylbenzene | 100-41-4 | LCS | 19.10 | | 20 | 95.7 | 79 - 121 | | |
| Hexachlorobutadiene | 87-68-3 | LCS | 22.70 | | 20 | 113 | 66 - 134 | | |
| Isopropylbenzene | 98-82-8 | LCS | 24.20 | | 20 | 121 | 72 - 131 | | |
| Methylene Chloride | 75-09-2 | LCS | 21.40 | | 20 | 107 | 74 - 124 | | |
| mp-Xylene | 108383/106423 | LCS | 38.90 | | 40 | 97.2 | 80 - 121 | | |
| Naphthalene | 91-20-3 | LCS | 19.90 | | 20 | 99.6 | 61 - 128 | | |
| n-Butylbenzene | 104-51-8 | LCS | 21.30 | | 20 | 107 | 75 - 128 | | |
| n-Propylbenzene | 103-65-1 | LCS | 21.10 | | 20 | 106 | 76 - 126 | | |
| o-Chlorotoluene | 95-49-8 | LCS | 21.40 | | 20 | 107 | 79 - 122 | | |
| o-Xylene | 95-47-6 | LCS | 19.30 | | 20 | 96.4 | 78 - 122 | | |
| p-Chlorotoluene | 106-43-4 | LCS | 22.40 | | 20 | 112 | 78 - 122 | | |
| p-Isopropyltoluene | 99-87-6 | LCS | 21.80 | | 20 | 109 | 77 - 127 | | |
| sec-Butylbenzene | 135-98-8 | LCS | 22.90 | | 20 | 115 | 77 - 126 | | |
| Styrene | 100-42-5 | LCS | 21.20 | | 20 | 106 | 78 - 123 | | |
| tert-Butylbenzene | 98-06-6 | LCS | 22.50 | | 20 | 113 | 78 - 124 | | |
| Tetrachloroethene | 127-18-4 | LCS | 20.20 | | 20 | 101 | 74 - 129 | | |
| Toluene | 108-88-3 | LCS | 19.60 | | 20 | 98.2 | 80 - 121 | | |
| trans-1,2-Dichloroethene | 156-60-5 | LCS | 21.50 | | 20 | 108 | 75 - 124 | | |
| trans-1,3-Dichloropropene | 10061-02-6 | LCS | 19.60 | | 20 | 97.9 | 73 - 127 | | |
| Trichloroethene | 79-01-6 | LCS | 20.20 | | 20 | 101 | 79 - 123 | | |
| Trichlorofluoromethane | 75-69-4 | LCS | 19.30 | | 20 | 96.5 | 65 - 141 | | |
| Vinyl Chloride | 75-01-4 | LCS | 19.70 | | 20 | 98.7 | 58 - 137 | | |

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 17060-07-0 | LCS | 30.40 | 30 | 101 | 81 - 118 | |



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**Project** HS24061218
**Workorder** 3366036

QUALITY CONTROL SAMPLES

## VOLATILE ORGANICS (cont.)

*SURROGATES*

| Compound | CAS No | | Result (ug/L) | Expected (ug/L) | Rec. (%) | Limits (%) | Qualifiers |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | LCS | 29.20 | 30 | 97.3 | 85 - 114 | |
| Dibromofluoromethane | 1868-53-7 | LCS | 29.70 | 30 | 98.9 | 80 - 119 | |
| Toluene-d8 | 2037-26-5 | LCS | 30.30 | 30 | 101 | 89 - 112 | |



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**Project** HS24061218
**Workorder** 3366036

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

| Lab ID | Sample ID | Preparation Method | Prep Batch | Prep Date/Time | By | Analysis Method | Anly Batch |
|---|---|---|---|---|---|---|---|
| 3366036001 | HS24061218-01 | N/A | N/A | N/A | | SW846 8260D | 1236144 |
| | | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366036002 | HS24061218-02 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366036003 | HS24061218-03 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366036004 | HS24061218-04 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366036005 | HS24061218-05 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366036006 | HS24061218-06 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366036007 | HS24061218-07 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366036008 | HS24061218-08 | N/A | N/A | N/A | | SW846 8260D | 1235666 |
| 3366036009 | HS24061218-09 | N/A | N/A | N/A | | SW846 8260D | 1235666 |



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3366036

Logged By: MJE
PM: SSL

10450 Stancliff Rd, Ste 210
Houston, TX 77099
**T:** +1 281 530 5656
**F:** +1 281 530 5887
**www.alsglobal.com**

# Subcontract Chain of Custody

**SAMPLING STATE:** **Texas** **COC ID:** **26166**

**SUBCONTRACT TO:**

ALS
301 Fulling Mill Road
Middletown, PA 17057

**Phone:** +1 717 702 2244

**CUSTOMER INFORMATION:**

| | |
|---|---|
| **Company:** | ALS Houston |
| **Contact:** | Luis.Aguilar |
| **Address:** | 10450 Stancliff Rd, Ste 210 |
| **Phone:** | +1 281 530 5656 |
| **Email:** | luis.aguilar@alsglobal.com |
| **Alternate Contact:** | Jumoke M. Lawal |
| **Email:** | jumoke.lawal@alsglobal.com |

**INVOICE INFORMATION:**

| | |
|---|---|
| **Company:** | ALS Houston |
| **Contact:** | Accounts Payable |
| **Address:** | 10450 Stancliff Rd, Ste 210 |
| **Phone:** | +1 281 530 5656 |
| **Reference:** | HS24061218 |
| **TSR:** | Sonia West |

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|---|---|---|---|---|
| | ANALYSIS REQUESTED | | | DUE DATE |
| 1. | **HS24061218-01** | **1824DPTMW02_061724** | **Water** | **17 Jun 2024 07:20** |
| | 8260 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| 2. | **HS24061218-02** | **18WW18_061724** | **Water** | **17 Jun 2024 08:05** |
| | 8260 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| 3. | **HS24061218-03** | **CO3_061724** | **Water** | **17 Jun 2024 08:05** |
| | 8260 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| 4. | **HS24061218-04** | **1824DPTMW01_061724** | **Water** | **17 Jun 2024 09:50** |
| | 8260 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| 5. | **HS24061218-05** | **18CPTMW18_061724** | **Water** | **17 Jun 2024 10:35** |
| | 8260 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| 6. | **HS24061218-06** | **1824DPTMW03_061724** | **Water** | **17 Jun 2024 11:20** |
| | 8260 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| 7. | **HS24061218-07** | **MW19_061724** | **Water** | **17 Jun 2024 12:05** |
| | 8260 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| 8. | **HS24061218-08** | **MW18_061724** | **Water** | **17 Jun 2024 12:45** |

# Subcontract Chain of Custody

**SAMPLING STATE:** **Texas** **COC ID: 26166**

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|---|---|---|---|---|
| | ANALYSIS REQUESTED | | | DUE DATE |
| | 8260 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |
| **9.** | **HS24061218-09** | **Trip Blank** | **Water** | **17 Jun 2024 00:00** |
| | 8260 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 03 Jul 2024 |

**Comments:** Please analyze for the analysis listed above.
Send report to the emails shown above.

**QC Level:** DOD IV (DoD Data Package)

Temp By: MJE | WO Temp (°C): 1° | Therm ID: 570

| | MJE |
|---|---|
| Receipt Info Completed By: | Y N NA |
| Cooler Custody Seal Intact | Y N NA |
| Sample Custody Seal Intact | Y N NA |
| Received on Ice | Y N |
| Cooler & Samples Intact | Y N |
| Correct Containers Provided | Y N |
| Sample Label/COC Agree | Y N |
| Adequate Sample Volumes | Y N NA |
| CR6 Samples Filtered | Y N NA |
| OP Samples Filtered | Y N NA |
| VOA Trip Blank | Y N |
| NI≤ 4 Days? | |
| Rad Screen (uCi) | |
| Courier/Tracking #: | 773879234761 |
| SDWA Compliance | Y N |
| PWSID | |
| WV Containers 0-6°C | Y N NA |

*No Sampler, GIC, G/H Cl - ME 6/26/24

pm notified WC27M

Relinquished By: _____ Date/Time: _____

Received By: Fedex Date/Time: _____

~~Cooler ID(s):~~ Fedex ~~Temperature(s):~~ 6/26/24 936

6/26/24 936



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# HS24061218-MSSEMI-SW8270SIM

ALS WO# HS24061218

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Form 2

# System Monitoring Compound Recovery

## Semi-Volatiles by Semivolatiles SIM

Workorder

HS24061218

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18 24

07/26/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

# Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18 24

Workorder HS24061218

## Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-470987

### 1824DPTMW02_061724

| Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|
| Water | 06/29/24 17:35 | %REC | 1 |

Lab Sample ID HS24061218-01
Instrument ID SV6

| Surrogate | FileID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 17.D | 0.068 | 0.08 | 85.0 | | 40-140 |
| 4-Terphenyl-d14 | 17.D | 0.077 | 0.08 | 96.5 | | 40-140 |
| Nitrobenzene-d5 | 17.D | 0.072 | 0.08 | 89.8 | | 40-140 |

### 18WW18_061724

| Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|
| Water | 06/29/24 17:52 | %REC | 1 |

Lab Sample ID HS24061218-02
Instrument ID SV6

| Surrogate | FileID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 18.D | 0.052 | 0.08 | 65.4 | | 40-140 |
| 4-Terphenyl-d14 | 18.D | 0.076 | 0.08 | 95.2 | | 40-140 |
| Nitrobenzene-d5 | 18.D | 0.062 | 0.08 | 77.2 | | 40-140 |

### CO3_061724

| Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|
| Water | 06/29/24 18:10 | %REC | 1 |

Lab Sample ID HS24061218-03
Instrument ID SV6

| Surrogate | FileID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 19.D | 0.059 | 0.08 | 73.7 | | 40-140 |
| 4-Terphenyl-d14 | 19.D | 0.064 | 0.08 | 79.6 | | 40-140 |
| Nitrobenzene-d5 | 19.D | 0.063 | 0.08 | 78.8 | | 40-140 |

### 1824DPTMW01_061724

| Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|
| Water | 06/29/24 18:27 | %REC | 1 |

Lab Sample ID HS24061218-04
Instrument ID SV6

| Surrogate | FileID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 20.D | 0.059 | 0.08 | 73.5 | | 40-140 |
| 4-Terphenyl-d14 | 20.D | 0.064 | 0.08 | 80.4 | | 40-140 |
| Nitrobenzene-d5 | 20.D | 0.069 | 0.08 | 86.4 | | 40-140 |

# Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18 24
Workorder: HS24061218

## Semi-Volatiles by Semivolatiles SIM

RUNID: SV-6-470987

### 18CPTMW18_061724

| Lab Sample ID | Instrument ID | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| HS24061218-05 | SV6 | Water | 06/29/24 18:45 | %REC | 1 |

| Surrogate | FileID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 21.D | 0.069 | 0.08 | 86.8 | | 40-140 |
| 4-Terphenyl-d14 | 21.D | 0.069 | 0.08 | 85.8 | | 40-140 |
| Nitrobenzene-d5 | 21.D | 0.072 | 0.08 | 89.8 | | 40-140 |

### 1824DPTMW03_061724

| Lab Sample ID | Instrument ID | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| HS24061218-06 | SV6 | Water | 06/29/24 19:02 | %REC | 1 |

| Surrogate | FileID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 22.D | 0.058 | 0.08 | 72.0 | | 40-140 |
| 4-Terphenyl-d14 | 22.D | 0.066 | 0.08 | 82.7 | | 40-140 |
| Nitrobenzene-d5 | 22.D | 0.071 | 0.08 | 88.6 | | 40-140 |

### LCS-213834

| Lab Sample ID | Instrument ID | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| LCS-213834 | SV6 | Aqueous | 06/29/24 15:15 | %REC | 1 |

| Surrogate | FileID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 09.D | 0.05815 | 0.08 | 72.7 | | 40-140 |
| 4-Terphenyl-d14 | 09.D | 0.04582 | 0.08 | 57.3 | | 40-140 |
| Nitrobenzene-d5 | 09.D | 0.06435 | 0.08 | 80.4 | | 40-140 |

### LCSD-213834

| Lab Sample ID | Instrument ID | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| LCSD-213834 | SV6 | Aqueous | 06/29/24 15:33 | %REC | 1 |

| Surrogate | FileID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 10.D | 0.05359 | 0.08 | 67.0 | | 40-140 |
| 4-Terphenyl-d14 | 10.D | 0.03425 | 0.08 | 42.8 | | 40-140 |
| Nitrobenzene-d5 | 10.D | 0.06272 | 0.08 | 78.4 | | 40-140 |

# Form 2 - System Monitoring Compound Recovery

| | | | |
|---|---|---|---|
| Client | Bhate Environmental Associates, Inc. | Workorder | HS24061218 |
| Project | LHAAP Site 18 24 | | |

## Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-470987

### MBLK-213834

| | | Matrix | Analysis Date | Conc Units | Dilution |
|---|---|---|---|---|---|
| Lab Sample ID | MBLK-213834 | Aqueous | 06/29/24 14:58 | %REC | 1 |
| Instrument ID | SV6 | | | | |

| Surrogate | FileID | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 08.D | 0.06599 | 0.08 | 82.5 | | 40-140 |
| 4-Terphenyl-d14 | 08.D | 0.09292 | 0.08 | 116 | | 40-140 |
| Nitrobenzene-d5 | 08.D | 0.06278 | 0.08 | 78.5 | | 40-140 |

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Form 3B

# Laboratory Control Sample Recovery

## EPA 3510

Workorder

HS24061218

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18 24

07/26/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

# Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18 24

Workorder HS24061218

## EPA 3510

SAMPLENUM LCS-213834

| SV-6_470987 | | | | LCS-213834 | | LCSD-213834 | | |
|---|---|---|---|---|---|---|---|---|
| Spike Matrix | Aqueous | Result Units | ug/L | Run Date | 06/29/24 | Run Date | 06/29/24 | |
| Prep Date | 06/20/24 | Analysis Batch | 213834 | Run Time | 15:15 | Run Time | 15:33 | |
| Prep Method | SW3510 | Prep Batch | 213834 | Prep Amt | 1000 mL | Prep Amt | 1000 mL | |

| Analyte | %Recovery Limits | Spike Added | LCS Result | %R | Q | LCSD Result | %R | Q | RPD Limit | RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 40-140 | 0.08 | 0.06136 | 77 | | 0.06341 | 79 | | 20 | 200 | |

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Form 4

# Method Blank Summary

## EPA 3510

Workorder

HS24061218

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18 24

07/26/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

# Form 4 - Method Blank Summary

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18 24
Workorder: HS24061218

## EPA 3510

| METHOD BLANK | Prep Date | Prep Batch | Matrix | Analysis Date | Analysis Batch | Inst ID |
|---|---|---|---|---|---|---|
| MBLK-213834 | 06/20/24 | 213834 | Aqueous | 06/29/24 14:58 | 213834 | SV6 |

| Client Sample ID | Lab Sample ID | Type | Analysis Date | Analysis Batch | Inst ID | FileID |
|---|---|---|---|---|---|---|
| LCS-213834 | LCS-213834 | LCS | 06/29/24 15:15 | 213834 | SV6 | 09.D |
| LCSD-213834 | LCSD-213834 | LCSD | 06/29/24 15:33 | 213834 | SV6 | 10.D |
| 1824DPTMW02_061724 | HS24061218-01 | SAMP | 06/29/24 17:35 | 213834 | SV6 | 17.D |
| 18WW18_061724 | HS24061218-02 | SAMP | 06/29/24 17:52 | 213834 | SV6 | 18.D |
| CO3_061724 | HS24061218-03 | SAMP | 06/29/24 18:10 | 213834 | SV6 | 19.D |
| 1824DPTMW01_061724 | HS24061218-04 | SAMP | 06/29/24 18:27 | 213834 | SV6 | 20.D |
| 18CPTMW18_061724 | HS24061218-05 | SAMP | 06/29/24 18:45 | 213834 | SV6 | 21.D |
| 1824DPTMW03_061724 | HS24061218-06 | SAMP | 06/29/24 19:02 | 213834 | SV6 | 22.D |

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Form 5

# Instrument Performance Check

# Semi-Volatiles by Semivolatiles SIM

Workorder

HS24061218

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18 24

07/26/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

**ALS Houston, US** Date: 26-Jul-24

# Form 5 - Instrument Performance Check
## Decafluorotriphenylphosphine (DFTPP)

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218 **Run ID:** SV-6_470987

**Lab File ID:** 01.D
**Instrument ID:** SV-6
**Injection Date:** 29-Jun-2024
**Injection Time:** 11:59

| m/e | Ion Abundance Criterion | % Relative Abundance |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 0.1 |
| 51 | 10.0 - 80.0% of mass 198 | 27.8 |
| 68 | Less than 2.0% of mass 69 | 0.0 ( 0.0) 1 |
| 68 | Less than 2.0% of mass 69 | 0.0 ( 0.0) 1 |
| 69 | Mass 69 relative abundance | 0.0 |
| 69 | Mass 69 relative abundance | 31.3 |
| 70 | Less than 2.0% of mass 69 | 0.0 ( 0.0) 1 |
| 70 | Less than 2.0% of mass 69 | 0.3 ( 0.8) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 1.4 |
| 127 | 10.0 - 80.0% of mass 198 | 41.8 |
| 197 | Less than 2.0% of mass 198 | 15.7 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base peak, 100% relative abundance | 100.0 |
| 198 | Base peak, 100% relative abundance | 94.4 |
| 199 | 5.0 - 9.0% of mass 198 | 15.1 |
| 199 | 5.0 - 9.0% of mass 198 | 6.9 |
| 275 | 10.0 - 60.0% of mass 198 | 0.0 |
| 275 | 10.0 - 60.0% of mass 198 | 25.9 |
| 365 | Greater than 1.0% of mass 198 | 0.0 |
| 365 | Greater than 1.0% of mass 198 | 3.2 |
| 441 | Present, but < 24.0% of mass 442 | 0.0 |
| 441 | Present, but < 24.0% of mass 442 | 71.1 |
| 442 | greater than 50.0% of mass 198 | 0.0 |
| 442 | greater than 50.0% of mass 198 | 106.0 |
| 443 | 15.0 - 24.0% of mass 442 | 0.0 ( 0.0) 2 |
| 443 | 15.0 - 24.0% of mass 442 | 20.6 ( 19.4) 2 |

1-Value is % mass 69 2-Value is % mass 442

**This check applies to following Samples, MS, MSD, Blanks and Standards**

| Client Sample ID | Lab Sample ID | Lab File ID | Date Analyzed |
|---|---|---|---|
| 14DX-0.08 | 14DX-0.08 | 05A.D | 29-Jun-2024 13:58 |
| MBLK-213834 | MBLK-213834 | 08.D | 29-Jun-2024 14:58 |
| LCS-213834 | LCS-213834 | 09.D | 29-Jun-2024 15:15 |
| LCSD-213834 | LCSD-213834 | 10.D | 29-Jun-2024 15:33 |
| 1824DPTMW02_061724 | HS24061218-01 | 17.D | 29-Jun-2024 17:35 |
| 18WW18_061724 | HS24061218-02 | 18.D | 29-Jun-2024 17:52 |
| CO3_061724 | HS24061218-03 | 19.D | 29-Jun-2024 18:10 |
| 1824DPTMW01_061724 | HS24061218-04 | 20.D | 29-Jun-2024 18:27 |
| 18CPTMW18_061724 | HS24061218-05 | 21.D | 29-Jun-2024 18:45 |
| 1824DPTMW03_061724 | HS24061218-06 | 22.D | 29-Jun-2024 19:02 |
| 14DX-0.08 | 14DX-0.08 | 23.D | 29-Jun-2024 19:19 |
| 14DX-0.08 | 14DX-0.08 | 04.D | 01-Jul-2024 13:00 |
| 14DX-0.08 | 14DX-0.08 | 17.D | 01-Jul-2024 17:52 |

**ALS Houston, US** Date: 26-Jul-24

# Form 5 - Instrument Performance Check
## Decafluorotriphenylphosphine (DFTPP)

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218 **Run ID:** SV-6_472536

**Lab File ID:** 01.D
**Instrument ID:** SV-6
**Injection Date:** 18-Apr-2024
**Injection Time:** 10:39

| m/e | Ion Abundance Criterion | % Relative Abundance |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 23.6 |
| 68 | Less than 2.0% of mass 69 | 0.5 ( 1.8) 1 |
| 69 | Mass 69 relative abundance | 28.8 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.5) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 39.7 |
| 197 | Less than 2.0% of mass 198 | 0.4 |
| 198 | Base peak, 100% relative abundance | 71.5 |
| 199 | 5.0 - 9.0% of mass 198 | 6.7 |
| 275 | 10.0 - 60.0% of mass 198 | 30.4 |
| 365 | Greater than 1.0% of mass 198 | 4.0 |
| 441 | Present, but < 24.0% of mass 442 | 74.3 |
| 442 | greater than 50.0% of mass 198 | 139.9 |
| 443 | 15.0 - 24.0% of mass 442 | 27.6 ( 19.7) 2 |

1-Value is % mass 69 2-Value is % mass 442

**This check applies to following Samples, MS, MSD, Blanks and Standards**

| Client Sample ID | Lab Sample ID | Lab File ID | Date Analyzed |
|---|---|---|---|
| 14DX-0.08 | 14DX-0.08 | 03A.D | 18-Apr-2024 12:24 |
| 14DX-0.01 | 14DX-0.01 | 04.D | 18-Apr-2024 12:49 |
| 14DX-0.03 | 14DX-0.03 | 05.D | 18-Apr-2024 13:07 |
| 14DX-0.05 | 14DX-0.05 | 06.D | 18-Apr-2024 13:25 |
| 14DX-0.10 | 14DX-0.10 | 07.D | 18-Apr-2024 13:42 |
| 14DX-0.15 | 14DX-0.15 | 08.D | 18-Apr-2024 14:00 |
| 14DX-0.20 | 14DX-0.20 | 09.D | 18-Apr-2024 14:18 |
| 14DX-0.50 | 14DX-0.50 | 10.D | 18-Apr-2024 14:35 |
| 14DX ICV-0.08 | 14DX ICV-0.08 | 11.D | 18-Apr-2024 14:53 |

Report Date : 06-Jun-2024 14:30 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAR-2022 10:25
End Cal Date : 18-APR-2024 14:35
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Last Edit : 06-Jun-2024 11:07 SV6.i
Curve Type : Average

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Level 2: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Level 3: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Level 4: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Level 5: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Level 6: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Level 7: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Level 8: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D

| Compound | 0.01000 Level 1 / 0.20000 Level 7 | 0.03000 Level 2 / 0.50000 Level 8 | 0.05000 Level 3 | 0.08000 Level 4 | 0.10000 Level 5 | 0.15000 Level 6 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| 1 1,4-Dioxane | 0.26786 / 0.21892 | 0.20193 / 0.19957 | 0.21510 | 0.19340 | 0.20406 | 0.21271 | 0.21419 | 10.884 |
| $ 9 2-Fluorophenol | ##### / ##### | ##### / ##### | ##### | ##### | ##### | ##### | ##### | ##### |
| $ 13 Phenol-d6 | ##### / ##### | ##### / ##### | ##### | ##### | ##### | ##### | ##### | ##### |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| $ 33 Nitrobenzene-d5 | 0.25417 | 0.27709 | 0.33446 | 0.25539 | 0.31770 | 0.31230 | | |
| | 0.32399 | 0.32657 | | | | | 0.30021 | 10.938 |
| $ 69 2-Fluorobiphenyl | 1.58567 | 1.48291 | 1.52552 | 1.25243 | 1.62605 | 1.59900 | | |
| | 1.54935 | 1.60832 | | | | | 1.52866 | 7.930 |
| $ 105 2,4,6-Tribromophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | | | | | +++++ | +++++ |
| $ 158 4-Terphenyl-d14 | 2.22448 | 1.99483 | 2.00359 | 1.46918 | 2.10278 | 2.04892 | | |
| | 2.19122 | 2.26244 | | | | | 2.03718 | 12.300 |

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Form 6I

# Initial Calibration Verification (ICV)

## Semi-Volatiles by Semivolatiles SIM

Workorder

HS24061218

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18 24

07/26/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

# Form 6I Initial Calibration Verification (ICV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP Site 18 24

**Workorder** HS24061218

RunID 11.D

## Semi-Volatiles by Semivolatiles SIM

**Sample Matrix** LIQUID
**Lab Smp Id** 14DX ICV-0.08
**Data Type** MS DATA
**File ID** 11.D

**Fraction** SV
**Client Smp ID** 14DX ICV-0.08
**SampleType** METHSPIKE
**Inj Date** 18-APR-2024 1453

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| 1,4-Dioxane | 0.080 | 0.076 | 94.6 | 80-120 | |
| Nitrobenzene-d5 | 0.080 | 0.073 | 91.4 | 40-140 | |
| 2-Fluorobiphenyl | 0.080 | 0.070 | 88.0 | 40-140 | |
| 4-Terphenyl-d14 | 0.080 | 0.071 | 88.2 | 40-140 | |

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Form 7

# Continuing Calibration Verification (CCV)

## Semi-Volatiles by Semivolatiles SIM

Workorder

HS24061218

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18 24

07/26/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

# Form 7 Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP Site 18 24

**Workorder** HS24061218

**RunID** 05A.D

## Semi-Volatiles by Semivolatiles SIM

**Instrument ID** SV6.i
**Lab File ID** 05A.D
**Analysis Type** WATER
**Lab Sample ID** 14DX-0.08

**Injection Date** 29-JUN-2024 1358
**ICAL Date(s)** 10-MAR-2022, 18-APR-2024
**ICAL Times** 10:25, 14:35
**Quant Type** ISTD

| Compound | RRF / Conc | RF0.080 | Min RRF | %D / %DRIFT | Max %D / %DRIFT | CURVE TYPE | Q |
|---|---|---|---|---|---|---|---|
| 33 Nitrobenzene-d5 | 0.300 | 0.261 | 0.010 | -12.979 | 20.0 | Averaged | |
| 69 2-Fluorobiphenyl | 1.53 | 1.34 | 0.010 | -12.276 | 20.0 | Averaged | |
| 158 4-Terphenyl-d14 | 2.04 | 1.63 | 0.010 | -19.957 | 20.0 | Averaged | |
| 1,4-Dioxane | 0.214 | 0.180 | 0.010 | -15.962 | 20.0 | Averaged | |

# Form 7 Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP Site 18 24

**Workorder** HS24061218

**RunID** 23.D

## Semi-Volatiles by Semivolatiles SIM

**Instrument ID** SV6.i
**Lab File ID** 23.D
**Analysis Type** WATER
**Lab Sample ID** 14DX-0.08

**Injection Date** 29-JUN-2024 1919
**ICAL Date(s)** 10-MAR-2022, 18-APR-2024
**ICAL Times** 10:25, 14:35
**Quant Type** ISTD

| Compound | RRF / Conc | RF0.080 | Min RRF | %D / %DRIFT | Max %D / %DRIFT | CURVE TYPE | Q |
|---|---|---|---|---|---|---|---|
| 33 Nitrobenzene-d5 | 0.300 | 0.247 | 0.010 | -17.572 | 20.0 | Averaged | |
| 69 2-Fluorobiphenyl | 1.53 | 1.39 | 0.010 | -9.071 | 20.0 | Averaged | |
| 158 4-Terphenyl-d14 | 2.04 | 1.18 | 0.010 | -42.007 | 20.0 | Averaged | * |
| 1,4-Dioxane | 0.214 | 0.180 | 0.010 | -15.915 | 20.0 | Averaged | |

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 05A Date Analyzed: 06/29/24

Instrument ID: SV6 Time Analyzed: 1358

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

| | | IS1(DCB) AREA # | IS1(DCB) RT # | IS2(NPT) AREA # | IS2(NPT) RT # | IS3(ANT) AREA # | IS3(ANT) RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 1993 | 1.93 | 7115 | 2.88 | 4286 | 4.46 |
| | UPPER LIMIT | 3986 | 2.43 | 14230 | 3.38 | 8572 | 4.96 |
| | LOWER LIMIT | 997 | 1.43 | 3558 | 2.38 | 2143 | 3.96 |
| | CLIENT SAMPLE NO. | | | | | | |
| 01 | MBLK-213834 | 2749 | 1.92 | 5842 | 2.88 | 3645 | 4.46 |
| 02 | LCS-213834 | 1438 | 1.92 | 4462 | 2.88 | 2780 | 4.46 |
| 03 | LCSD-213834 | 1848 | 1.92 | 6548 | 2.88 | 3928 | 4.46 |
| 04 | HS24061218-0 | 2496 | 1.92 | 5001 | 2.88 | 3119 | 4.46 |
| 05 | HS24061218-0 | 2259 | 1.92 | 4325 | 2.88 | 3140 | 4.46 |
| 06 | HS24061218-0 | 2902 | 1.92 | 6059 | 2.88 | 4425 | 4.46 |
| 07 | HS24061218-0 | 2723 | 1.92 | 6166 | 2.88 | 3594 | 4.46 |
| 08 | HS24061218-0 | 2516 | 1.92 | 5135 | 2.88 | 3155 | 4.46 |
| 09 | HS24061218-0 | 2843 | 1.92 | 6163 | 2.88 | 3985 | 4.46 |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.



FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 05A Date Analyzed: 06/29/24

Instrument ID: SV6 Time Analyzed: 1358

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

| | | IS4(PHN) AREA # | RT # | IS5(CRY) AREA # | RT # | IS6(PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 8105 | 5.85 | 6578 | 8.36 | 6794 | 9.86 |
| | UPPER LIMIT | 16210 | 6.35 | 13156 | 8.86 | 13588 | 10.36 |
| | LOWER LIMIT | 4053 | 5.35 | 3289 | 7.86 | 3397 | 9.36 |
| | CLIENT SAMPLE NO. | | | | | | |
| 01 | MBLK-213834 | 7029 | 5.85 | 10453 | 8.36 | 6052 | 9.86 |
| 02 | LCS-213834 | 5492 | 5.85 | 4776 | 8.36 | 4771 | 9.86 |
| 03 | LCSD-213834 | 7748 | 5.85 | 7330 | 8.36 | 7279 | 9.85 |
| 04 | HS24061218-0 | 6200 | 5.85 | 5438 | 8.36 | 6051 | 9.86 |
| 05 | HS24061218-0 | 5180 | 5.85 | 4636 | 8.36 | 4856 | 9.86 |
| 06 | HS24061218-0 | 7696 | 5.85 | 7398 | 8.36 | 7655 | 9.86 |
| 07 | HS24061218-0 | 7142 | 5.85 | 6925 | 8.37 | 7171 | 9.86 |
| 08 | HS24061218-0 | 6225 | 5.85 | 5960 | 8.36 | 6265 | 9.86 |
| 09 | HS24061218-0 | 7121 | 5.85 | 7430 | 8.36 | 7876 | 9.86 |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.



FORM VIII SV

# Prep Batch Report

| | | | |
|---|---|---|---|
| **Batch ID:** | 213834 | **Init Sample Weight / Volume:** | 1000 |
| **Prep Code:** | 3510_B_SIM | **Final Sample Volume:** | 1 |
| **Start Date:** | 20 Jun 2024 06:30 AM | **Original Factor:** | 0.001 |
| **End Date:** | 20 Jun 2024 11:00 AM | **Prep Unit Factor:** | 1 |
| **Technician:** | Todi Lala | **Prep Unit:** | mL |

| Sample ID | Fraction | Matrix | pH | Initial Weight / Volume | Final Volume | Prep Factor | Spike Factor | Comments |
|---|---|---|---|---|---|---|---|---|
| HS24060985-03 | C | Groundwater | 7 | 1000 | 1 | 0.001 | 1 | ph adj 1/13clno |
| HS24060985-04 | D | Groundwater | 7 | 1000 | 1 | 0.001 | 1 | ph adj 1/13clno |
| HS24060985-05 | C | Groundwater | 7 | 1000 | 1 | 0.001 | 1 | ph adj 1/13clno |
| HS24060985-06 | C | Groundwater | 7 | 1000 | 1 | 0.001 | 1 | ph adj 1/13clno |
| HS24060985-07 | B | Groundwater | 7 | 1000 | 1 | 0.001 | 1 | ph adj 1/13clno |
| HS24060985-08 | C | Groundwater | 7 | 1000 | 1 | 0.001 | 1 | ph adj 1/13clno |
| HS24061001-02 | A | Water | 7 | 1000 | 1 | 0.001 | 1 | ph adj 1/13clno |
| HS24061001-03 | A | Water | 7 | 1000 | 1 | 0.001 | 1 | ph adj 1/13clno |
| HS24061052-01 | A | Water | 7 | 570 | 1 | 0.001754 | 1.754 | ph adj 1/13clno Out of Hold |
| HS24061218-01 | C | Water | 7 | 1000 | 1 | 0.001 | 1 | ph adj 1/13clno |
| HS24061218-02 | D | Water | 7 | 1000 | 1 | 0.001 | 1 | ph adj 1/13clno |
| HS24061218-03 | D | Water | 7 | 1000 | 1 | 0.001 | 1 | ph adj 1/13clno |
| HS24061218-04 | C | Water | 7 | 1000 | 1 | 0.001 | 1 | ph adj 1/13clno |
| HS24061218-05 | D | Water | 7 | 1000 | 1 | 0.001 | 1 | ph adj 1/13clno |
| HS24061218-06 | C | Water | 7 | 1000 | 1 | 0.001 | 1 | ph adj 1/13clno |
| LCS-213834 | A | | 5 | 1000 | 1 | 0.001 | 1 | ph adj 1/13clno |
| LCS1-213834 | A | | 5 | 1000 | 1 | 0.001 | 1 | ph adj 1/13clno |
| LCSD-213834 | A | | 5 | 1000 | 1 | 0.001 | 1 | ph adj 1/13clno |
| LCSD1-213834 | A | | 5 | 1000 | 1 | 0.001 | 1 | ph adj 1/13clno |
| MBLK-213834 | A | | 5 | 1000 | 1 | 0.001 | 1 | ph adj 1/13clno |

# Prep Batch Report

| | | | |
|---|---|---|---|
| **Batch ID:** | 213834 | **Init Sample Weight / Volume:** | 1000 |
| **Prep Code:** | 3510_B_SIM | **Final Sample Volume:** | 1 |
| **Start Date:** | 20 Jun 2024 06:30 AM | **Original Factor:** | 0.001 |
| **End Date:** | 20 Jun 2024 11:00 AM | **Prep Unit Factor:** | 1 |
| **Technician:** | Todi Lala | **Prep Unit:** | mL |

| Stage | Description | Value |
|---|---|---|
| 3510/3511 | Chlorine Strips ID: | 3001070211-06 |
| 3510_B | pH Paper: | 300107092-11 |
| 3510_B | Methylene Chloride ID: | 300107098-18 |
| 3510_B | 50% NaoH ID: | 300107078-21 |
| 3510_B | NaoH Volume (mL): | 8 |
| 3510_B | 50:50 Sulfuric Acid ID: | 300107095-06 |
| 3510_B | Sulfuric Acid Volume (mL): | 8ml |
| 3510_B | Syringe ID: | 3510-bsim |
| 3510_B | LCS/MS Spike ID: | 3231538-11 |
| 3510_B | LCS/MS Volume (mL): | 1ml |
| 3510_B | LCS/MS Spike #2 ID (If needed): | 3231510-05 |
| 3510_B | LCS/MS Spike #2 Volume (mL): | 1 |
| 3510_B | LCS/MS Spike #3 ID (If needed): | na |
| 3510_B | LCS/MS Spike #3 Volume (mL): | na |
| 3510_B | Sodium Sulfate ID: | 3142131-21 |
| 3510_B | Glass Wool ID: | 300107067-15 |
| 3510_B | TurboVap Unit(s): | j (1-6)  n (7-13)d(14-20)l () |
| 3510_B | TurboVap Temp (C): | 39-40 |
| 3510_B | TurboVap Pressure (PSI): | 9-11 |
| 3510_B | Time in TurboVap (Hrs): | 1.5 hr |
| 3510_B | Vial Lot: | 300107091-08 |
| 3510_B | CleanUp Performed: | na |
| 3510_B | Surrogate ID: | 320077506 |
| 3510_B | Surrogate Volume (mL): | 1ml |

right solutions.
right partner.

# Analysis Run Log

## Semi-Volatiles by Semivolatiles SIM

Workorder

HS24061218

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18 24

07/26/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

# SV06 -Logbook

**Batch:** 59721 **Analyst:** Marco Gutierrez

**Date:** 04-18-2024 **Reviewer:**

**Method:** R8270D 14dx ICAL **Laboratory:** Houston

**Comments:**

| # | Samp ID | Type | Analyzed | DF | Init Wt/Vol | Final Vol | File ID | Matrix | Status | pH |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DFTPP | TUNE | 04-18-2024 10:39 am | 1.00 | 0.00 gm | 0.00 mL | 01.D | | Y | NA |
| 2 | SLSTD-2.5 | CCV | 04-18-2024 10:51 am | 1.00 | 1000.00 mL | 1000.00 mL | 02.D | Liquid | Y | NA |
| 3 | 14DX-0.08 | ICAL4 | 04-18-2024 12:24 pm | 1.00 | 1000.00 mL | 1000.00 mL | 03A.D | Liquid | Y | NA |
| 4 | 14DX-0.01 | ICAL1 | 04-18-2024 12:49 pm | 1.00 | 1000.00 mL | 1000.00 mL | 04.D | Liquid | Y | NA |
| 5 | 14DX-0.03 | ICAL2 | 04-18-2024 01:07 pm | 1.00 | 1000.00 mL | 1000.00 mL | 05.D | Liquid | Y | NA |
| 6 | 14DX-0.05 | ICAL3 | 04-18-2024 01:25 pm | 1.00 | 1000.00 mL | 1000.00 mL | 06.D | Liquid | Y | NA |
| 7 | 14DX-0.10 | ICAL5 | 04-18-2024 01:42 pm | 1.00 | 1000.00 mL | 1000.00 mL | 07.D | Liquid | Y | NA |
| 8 | 14DX-0.15 | ICAL6 | 04-18-2024 02:00 pm | 1.00 | 1000.00 mL | 1000.00 mL | 08.D | Liquid | Y | NA |
| 9 | 14DX-0.20 | ICAL7 | 04-18-2024 02:18 pm | 1.00 | 1000.00 mL | 1000.00 mL | 09.D | Liquid | Y | NA |
| 10 | 14DX-0.50 | ICAL8 | 04-18-2024 02:35 pm | 1.00 | 1000.00 mL | 1000.00 mL | 10.D | Liquid | Y | NA |
| 11 | 14DX ICV-0.08 | ICV | 04-18-2024 02:53 pm | 1.00 | 1000.00 mL | 1000.00 mL | 11.D | Liquid | Y | NA |
| 12 | SIM CCB | SAMP | 04-18-2024 04:10 pm | 1.00 | 1000.00 mL | 1000.00 mL | 12.D | Liquid | Y | NA |
| 13 | MBLK-210508 | SAMP | 04-18-2024 04:28 pm | 1.00 | 1000.00 mL | 1000.00 mL | 13.D | Liquid | Y | NA |
| 14 | LCS-210508 | SAMP | 04-18-2024 04:45 pm | 1.00 | 1000.00 mL | 1000.00 mL | 14.D | Liquid | Y | NA |
| 15 | LCSD-210508 | SAMP | 04-18-2024 05:03 pm | 1.00 | 1000.00 mL | 1000.00 mL | 15.D | Liquid | Y | NA |
| 16 | HS24040786-01 | SAMP | 04-18-2024 05:21 pm | 1.00 | 1000.00 mL | 1000.00 mL | 16.D | Liquid | Y | NA |
| 17 | 14DX-0.08 | SAMP | 04-18-2024 05:38 pm | 1.00 | 1000.00 mL | 1000.00 mL | 17.D | Liquid | Y | NA |
| 18 | SIM CCB | SAMP | 04-18-2024 05:56 pm | 1.00 | 1000.00 mL | 1000.00 mL | 18.D | Liquid | Y | NA |
| 19 | HS24040667-03 | SAMP | 04-18-2024 06:14 pm | 1.00 | 1000.00 mL | 1000.00 mL | 19.D | Liquid | Y | NA |
| 20 | HS24040816-04 | SAMP | 04-18-2024 06:31 pm | 1.00 | 1000.00 mL | 1000.00 mL | 20.D | Liquid | Y | NA |
| 21 | HS24040816-05 | SAMP | 04-18-2024 06:49 pm | 1.00 | 1000.00 mL | 1000.00 mL | 21.D | Liquid | Y | NA |
| 22 | HS24040816-06 | SAMP | 04-18-2024 07:06 pm | 1.00 | 1000.00 mL | 1000.00 mL | 22.D | Liquid | Y | NA |
| 23 | HS24041063-01 | SAMP | 04-18-2024 07:24 pm | 1.00 | 1000.00 mL | 1000.00 mL | 23.D | Liquid | Y | NA |
| 24 | HS24041063-02 | SAMP | 04-18-2024 07:41 pm | 1.00 | 1000.00 mL | 1000.00 mL | 24.D | Liquid | Y | NA |
| 25 | HS24041063-03 | SAMP | 04-18-2024 07:59 pm | 1.00 | 1000.00 mL | 1000.00 mL | 25.D | Liquid | Y | NA |

# SV06 -Logbook

**Batch:** 60588 **Analyst:** Marco Gutierrez

**Date:** 06-29-2024 **Reviewer:**

**Method:** R8270D 14DX/LVI **Laboratory:** Houston

**Comments:**

| # | Samp ID | Type | Analyzed | DF | Init Wt/Vol | Final Vol | File ID | Matrix | Status | pH |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DFTPP | TUNE | 06-29-2024 11:59 am | 1.00 | 0.00 gm | 0.00 mL | 01.D | | Y | NA |
| 2 | SLSTD-2.5 | CCV | 06-29-2024 12:12 pm | 1.00 | 1000.00 mL | 1000.00 mL | 02.D | Liquid | Y | NA |
| 3 | DFTPP | TUNE | 06-29-2024 12:31 pm | 1.00 | 0.00 gm | 0.00 mL | 03.D | | Y | NA |
| 4 | PAHLVI-0.025 | CCV | 06-29-2024 12:51 pm | 1.00 | 33.00 mL | 2000.00 mL | 04.D | Liquid | Y | NA |
| 5 | 14DX-0.08 | CCV | 06-29-2024 01:58 pm | 1.00 | 1000.00 mL | 1000.00 mL | 05A.D | Liquid | Y | NA |
| 6 | HS24060795-01X10 | SAMP | 06-29-2024 02:23 pm | 1.00 | 1000.00 mL | 1000.00 mL | 06.D | Liquid | Y | NA |
| 7 | HS24060899-02X10 | SAMP | 06-29-2024 02:40 pm | 1.00 | 1000.00 mL | 1000.00 mL | 07.D | Liquid | Y | NA |
| 8 | MBLK-213834 | SAMP | 06-29-2024 02:58 pm | 1.00 | 1000.00 mL | 1000.00 mL | 08.D | Liquid | Y | NA |
| 9 | LCS-213834 | SAMP | 06-29-2024 03:15 pm | 1.00 | 1000.00 mL | 1000.00 mL | 09.D | Liquid | Y | NA |
| 10 | LCSD-213834 | SAMP | 06-29-2024 03:33 pm | 1.00 | 1000.00 mL | 1000.00 mL | 10.D | Liquid | Y | NA |
| 11 | HS24060985-03 | SAMP | 06-29-2024 03:50 pm | 1.00 | 1000.00 mL | 1000.00 mL | 11.D | Liquid | Y | NA |
| 12 | HS24060985-04 | SAMP | 06-29-2024 04:08 pm | 1.00 | 1000.00 mL | 1000.00 mL | 12.D | Liquid | Y | NA |
| 13 | HS24060985-05 | SAMP | 06-29-2024 04:25 pm | 1.00 | 1000.00 mL | 1000.00 mL | 13.D | Liquid | Y | NA |
| 14 | HS24060985-06 | SAMP | 06-29-2024 04:42 pm | 1.00 | 1000.00 mL | 1000.00 mL | 14.D | Liquid | Y | NA |
| 15 | HS24060985-07 | SAMP | 06-29-2024 05:00 pm | 1.00 | 1000.00 mL | 1000.00 mL | 15.D | Liquid | Y | NA |
| 16 | HS24060985-08 | SAMP | 06-29-2024 05:17 pm | 1.00 | 1000.00 mL | 1000.00 mL | 16.D | Liquid | Y | NA |
| 17 | HS24061218-01 | SAMP | 06-29-2024 05:35 pm | 1.00 | 1000.00 mL | 1000.00 mL | 17.D | Liquid | Y | NA |
| 18 | HS24061218-02 | SAMP | 06-29-2024 05:52 pm | 1.00 | 1000.00 mL | 1000.00 mL | 18.D | Liquid | Y | NA |
| 19 | HS24061218-03 | SAMP | 06-29-2024 06:10 pm | 1.00 | 1000.00 mL | 1000.00 mL | 19.D | Liquid | Y | NA |
| 20 | HS24061218-04 | SAMP | 06-29-2024 06:27 pm | 1.00 | 1000.00 mL | 1000.00 mL | 20.D | Liquid | Y | NA |
| 21 | HS24061218-05 | SAMP | 06-29-2024 06:45 pm | 1.00 | 1000.00 mL | 1000.00 mL | 21.D | Liquid | Y | NA |
| 22 | HS24061218-06 | SAMP | 06-29-2024 07:02 pm | 1.00 | 1000.00 mL | 1000.00 mL | 22.D | Liquid | Y | NA |
| 23 | 14DX-0.08 | SAMP | 06-29-2024 07:19 pm | 1.00 | 1000.00 mL | 1000.00 mL | 23.D | Liquid | Y | NA |
| 24 | HS24060619-07 | SAMP | 06-29-2024 07:37 pm | 1.00 | 1000.00 mL | 1000.00 mL | 24.D | Liquid | Y | NA |
| 25 | HS24060619-08 | SAMP | 06-29-2024 07:54 pm | 1.00 | 1000.00 mL | 1000.00 mL | 25.D | Liquid | Y | NA |
| 26 | HS24060619-09 | SAMP | 06-29-2024 08:12 pm | 1.00 | 1000.00 mL | 1000.00 mL | 26.D | Liquid | Y | NA |
| 27 | HS24060619-10 | SAMP | 06-29-2024 08:29 pm | 1.00 | 1000.00 mL | 1000.00 mL | 27.D | Liquid | Y | NA |
| 28 | HS24060619-11 | SAMP | 06-29-2024 08:47 pm | 1.00 | 1000.00 mL | 1000.00 mL | 28.D | Liquid | Y | NA |
| 29 | HS24060619-12 | SAMP | 06-29-2024 09:04 pm | 1.00 | 1000.00 mL | 1000.00 mL | 29.D | Liquid | Y | NA |
| 30 | HS24061052-01 | SAMP | 06-29-2024 09:21 pm | 1.00 | 1000.00 mL | 1000.00 mL | 30.D | Liquid | Y | NA |
| 31 | MBLK-214211 | SAMP | 06-29-2024 09:39 pm | 1.00 | 33.00 mL | 2000.00 mL | 31.D | Liquid | Y | NA |
| 32 | LCS-214211 | SAMP | 06-29-2024 09:56 pm | 1.00 | 33.00 mL | 2000.00 mL | 32.D | Liquid | Y | NA |
| 33 | LCSD-214211 | SAMP | 06-29-2024 10:14 pm | 1.00 | 33.00 mL | 2000.00 mL | 33.D | Liquid | Y | NA |
| 34 | HS24061637-01 | SAMP | 06-29-2024 10:31 pm | 1.00 | 33.00 mL | 2000.00 mL | 34.D | Liquid | Y | NA |
| 35 | HS24060967-01X1H | SAMP | 06-29-2024 10:48 pm | 1.00 | 33.00 mL | 2000.00 mL | 35.D | Liquid | Y | NA |
| 36 | HS24060967-01X10 | SAMP | 06-29-2024 11:06 pm | 1.00 | 33.00 mL | 2000.00 mL | 36.D | Liquid | Y | NA |
| 37 | HS24061616-01 | SAMP | 06-29-2024 11:23 pm | 1.00 | 33.00 mL | 2000.00 mL | 37.D | Liquid | Y | NA |

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\01.D Page 1
Report Date: 29-Jun-2024 12:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 29-JUN-2024 11:59
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240629.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

| | | | | | CONCENTRATIONS ON-COL | FINAL | | |
|---|---|---|---|---|---|---|---|---|
| RT | EXP RT | DLT RT | MASS | RESPONSE | ( ug/L) | ( ug/L) | TARGET RANGE | RATIO |
| 1 dftpp | | | | | | CAS #: 5074-71-5 | | |
| 5.223 | 5.571 | -0.348 | 198 | 12554 | | | 0.00- 100.00 | 100.00(Q) |
| 5.223 | 6.357 | -1.134 | 51 | 8 | | | 10.00- 80.00 | 0.06 |
| 5.223 | 6.357 | -1.134 | 68 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 5.223 | 6.357 | -1.134 | 69 | 0 | 0.0 | 0.0 | 0.00- 0.00 | 0.00 |
| 5.223 | 6.357 | -1.134 | 70 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 5.223 | 6.357 | -1.134 | 127 | 174 | | | 10.00- 80.00 | 1.39 |
| 5.223 | 6.357 | -1.134 | 197 | 1968 | | | 0.00- 2.00 | 15.68 |
| 5.223 | 6.357 | -1.134 | 199 | 1899 | | | 5.00- 9.00 | 15.13 |
| 5.223 | 6.357 | -1.134 | 275 | 0 | 0.0 | 0.0 | 10.00- 60.00 | 0.00 |
| 5.223 | 6.357 | -1.134 | 365 | 0 | 0.0 | 0.0 | 1.00- 100.00 | 0.00 |
| 5.223 | 6.357 | -1.134 | 441 | 0 | 0.0 | 0.0 | 0.01- 99.99 | 0.00 |
| 5.223 | 6.357 | -1.134 | 442 | 0 | 0.0 | 0.0 | 50.00- 150.00 | 0.00 |
| 5.223 | 6.357 | -1.134 | 443 | 0 | 0.0 | 0.0 | 15.00- 24.00 | 0.00 |

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D Page 1
Report Date: 29-Jun-2024 14:15

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 29-JUN-2024 13:58
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 29-Jun-2024 14:15 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | ON-COL ( NG) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 1.926 | 1.926 | (1.000) | 1993 | 0.10000 | (aQM) |
| * 45 Naphthalene-d8 | 136 | 2.880 | 2.880 | (1.000) | 7115 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.318 | 2.318 | (0.805) | 1487 | 0.08000 | 0.06962(M) |
| * 86 Acenaphthene-d10 | 164 | 4.459 | 4.459 | (1.000) | 4286 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 3.862 | 3.862 | (0.866) | 4598 | 0.08000 | 0.07018(M) |
| * 126 Phenanthrene-d10 | 188 | 5.849 | 5.849 | (1.000) | 8105 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 8.361 | 8.361 | (1.000) | 6578 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.414 | 7.414 | (0.887) | 8581 | 0.08000 | 0.06403(M) |
| * 198 Perylene-d12 | 264 | 9.856 | 9.856 | (1.000) | 6794 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 0.778 | 0.778 | (0.404) | 287 | 0.08000 | 0.06723(M) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D



Date : 29-JUN-2024 13:58

Client ID: 14DX-0.08

Instrument: SV6.i

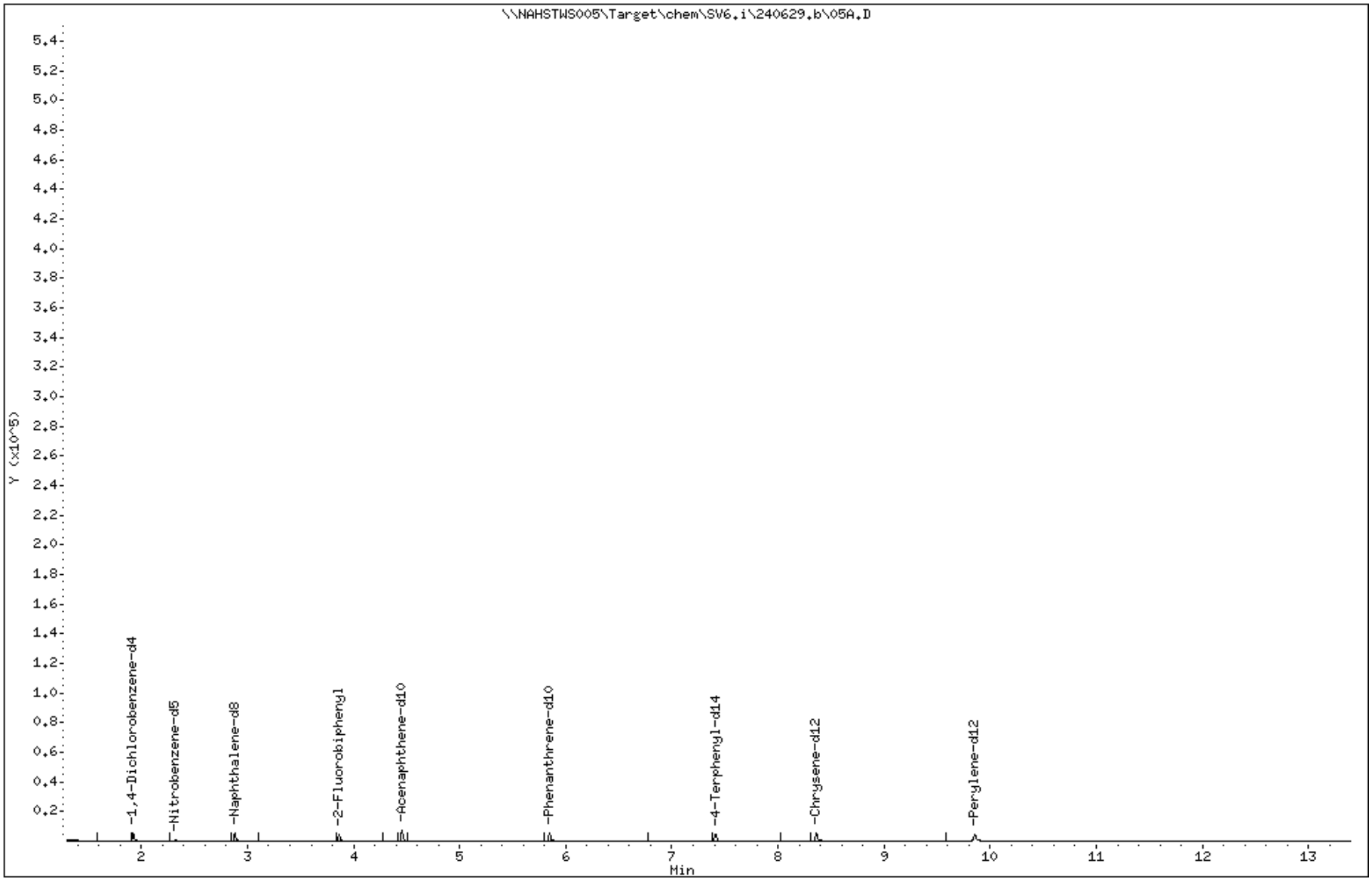
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



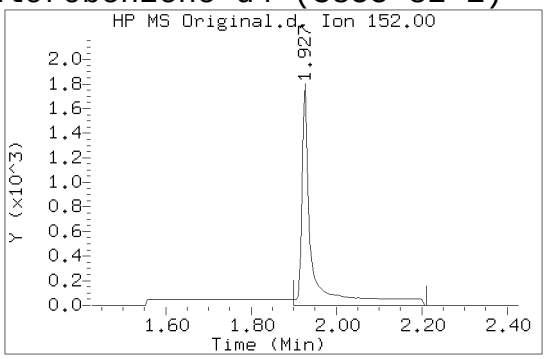
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

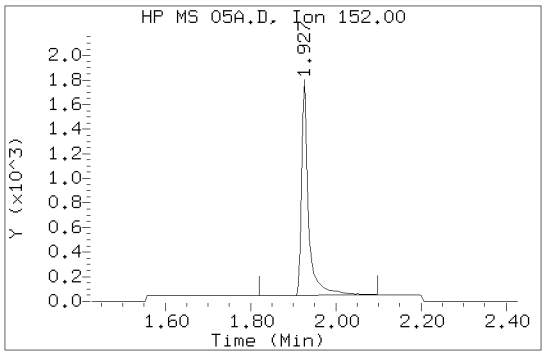
BEFORE

MASS
152
AREA
2940
HEIGHT
1802
29-Jun-2024
14:13
ALSHS
Server



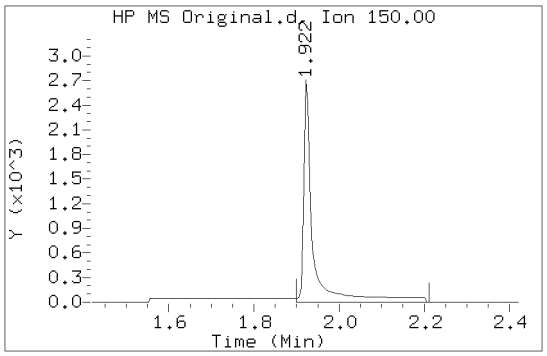

AFTER

MASS
152
AREA
1993
HEIGHT
1752
29-Jun-2024
14:15



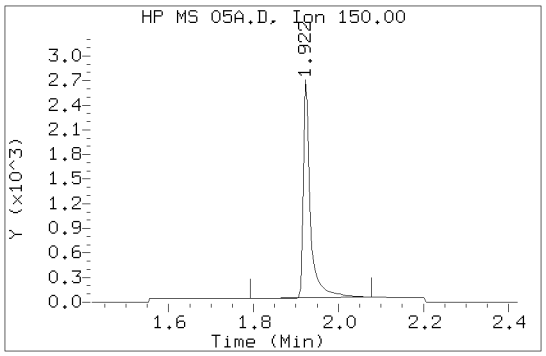

BEFORE

MASS
150
AREA
4154
HEIGHT
2708
29-Jun-2024
14:13
ALSHS
Server



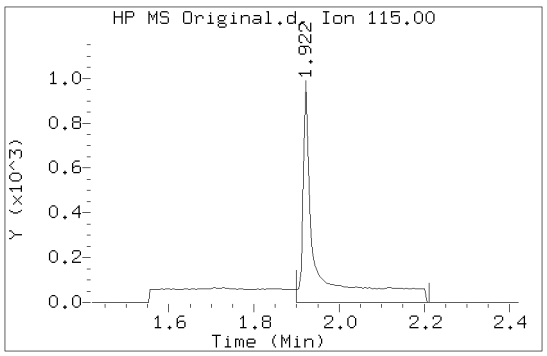

AFTER

MASS
150
AREA
3076
HEIGHT
2653
29-Jun-2024
14:15



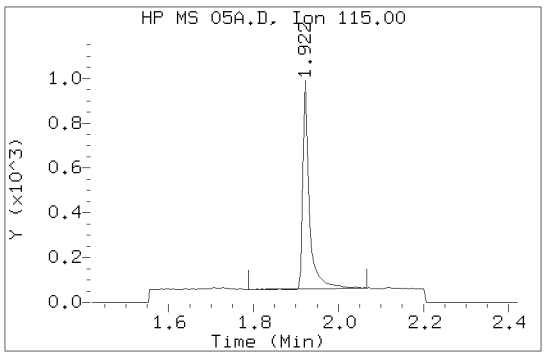

BEFORE

MASS
115
AREA
2134
HEIGHT
990
29-Jun-2024
14:13
ALSHS
Server




AFTER

MASS
115
AREA
1012
HEIGHT
930
29-Jun-2024
14:15

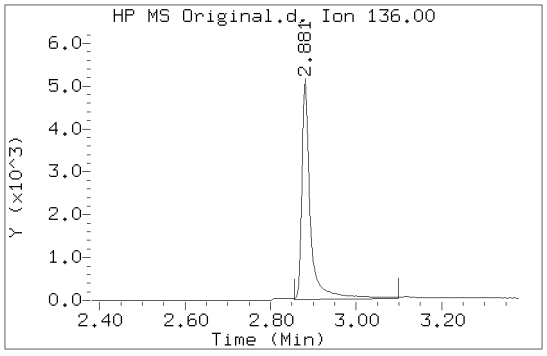



## Naphthalene-d8 (1146-65-2)

Reason Code:

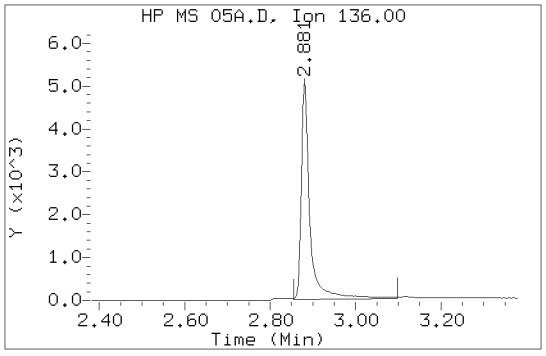
BEFORE

MASS
136
AREA
7115
HEIGHT
5157
29-Jun-2024
14:13
ALSHS
Server




AFTER

MASS
136
AREA
7115
HEIGHT
5157
29-Jun-2024
14:15

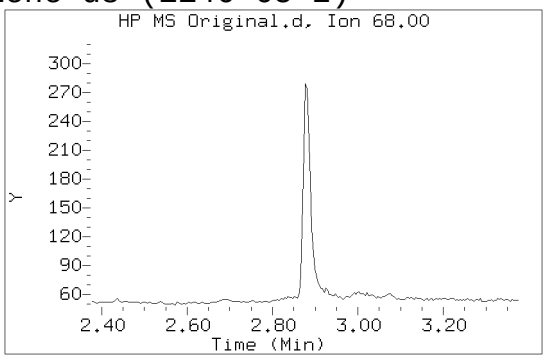


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

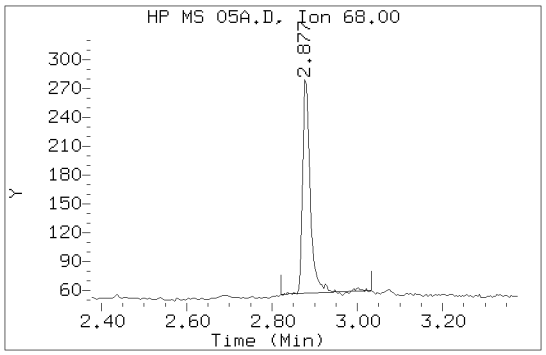
## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
14:13
ALSHS
Server



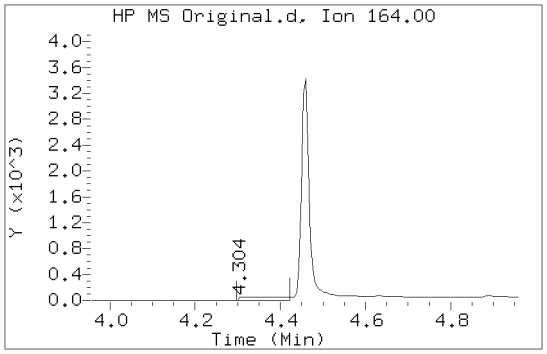

AFTER
MASS
68
AREA
273
HEIGHT
221
29-Jun-2024
14:15



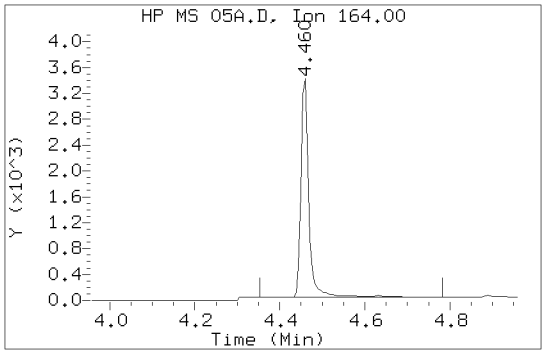

## Acenaphthene-d10 (15067-26-2)

Reason Code:

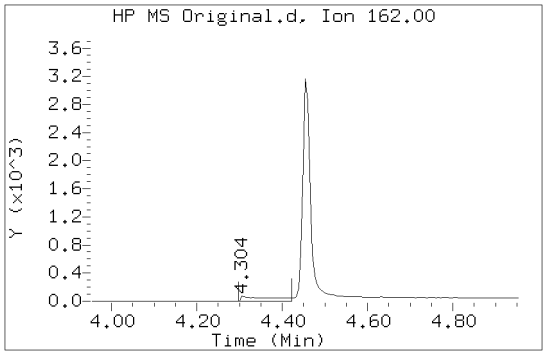
BEFORE
MASS
164
AREA
356
HEIGHT
52
29-Jun-2024
14:13
ALSHS
Server



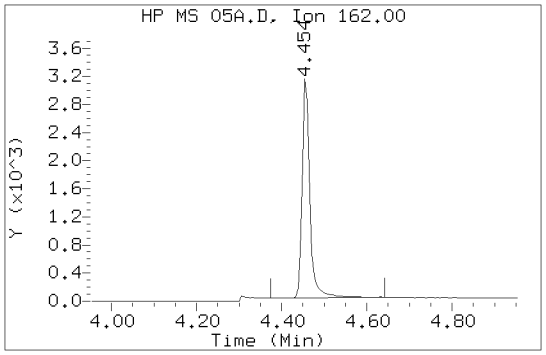

AFTER
MASS
164
AREA
4286
HEIGHT
3377
29-Jun-2024
14:15



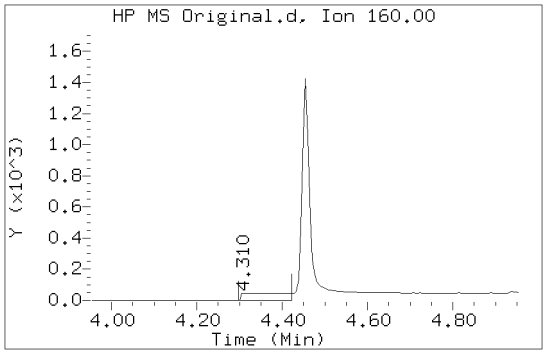

BEFORE
MASS
162
AREA
367
HEIGHT
75
29-Jun-2024
14:13
ALSHS
Server



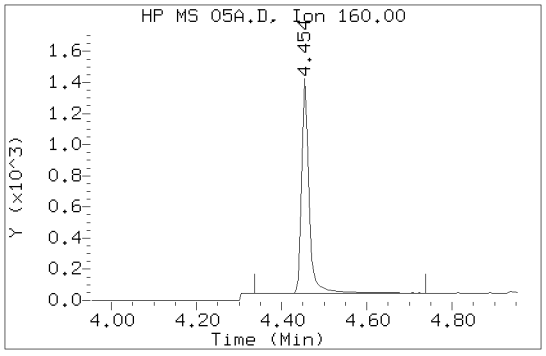

AFTER
MASS
162
AREA
3825
HEIGHT
3112
29-Jun-2024
14:15




BEFORE
MASS
160
AREA
332
HEIGHT
47
29-Jun-2024
14:13
ALSHS
Server




AFTER
MASS
160
AREA
1655
HEIGHT
1377
29-Jun-2024
14:15



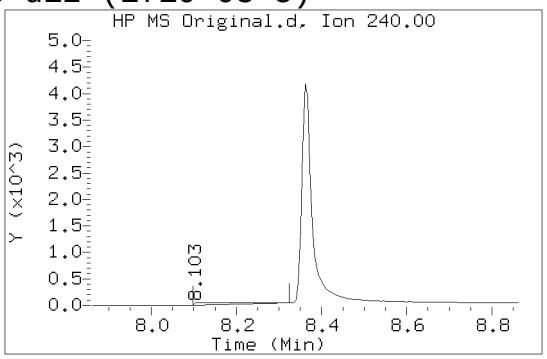
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

## Chrysene-d12 (1719-03-5)

Reason Code:

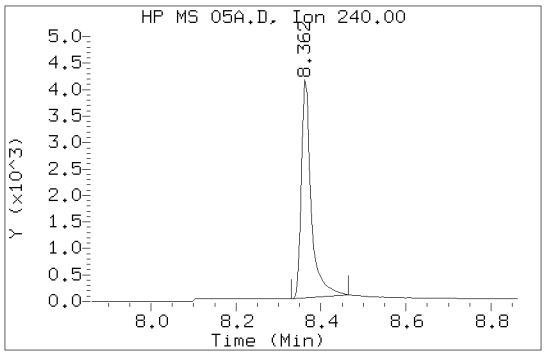
**BEFORE**

MASS
240
AREA
295
HEIGHT
43
29-Jun-2024
14:13
ALSHS
Server



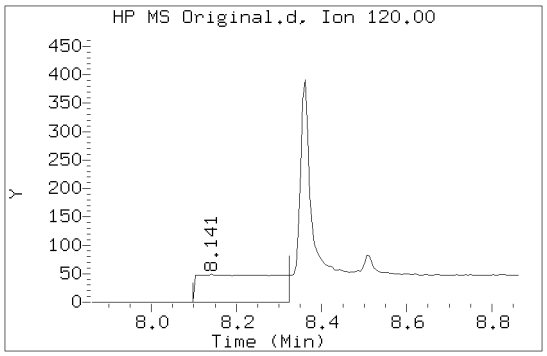

**AFTER**

MASS
240
AREA
6578
HEIGHT
4123
29-Jun-2024
14:15



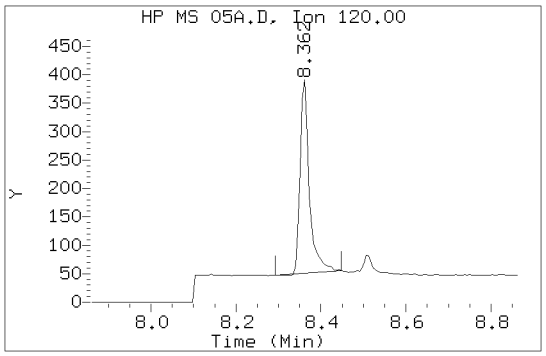

**BEFORE**

MASS
120
AREA
640
HEIGHT
50
29-Jun-2024
14:13
ALSHS
Server



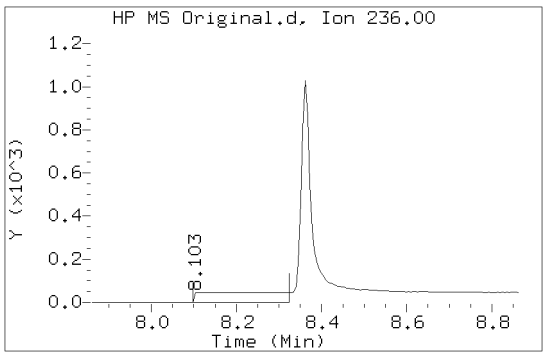

**AFTER**

MASS
120
AREA
509
HEIGHT
340
29-Jun-2024
14:15



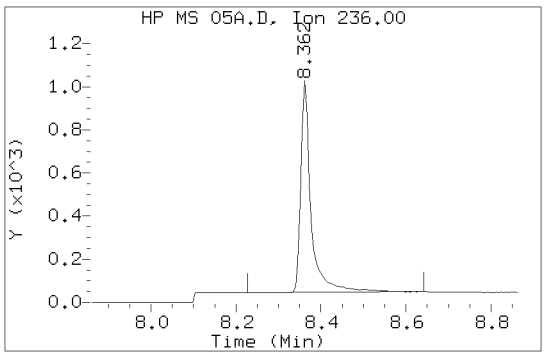

**BEFORE**

MASS
236
AREA
612
HEIGHT
46
29-Jun-2024
14:13
ALSHS
Server




**AFTER**

MASS
236
AREA
1625
HEIGHT
981
29-Jun-2024
14:15

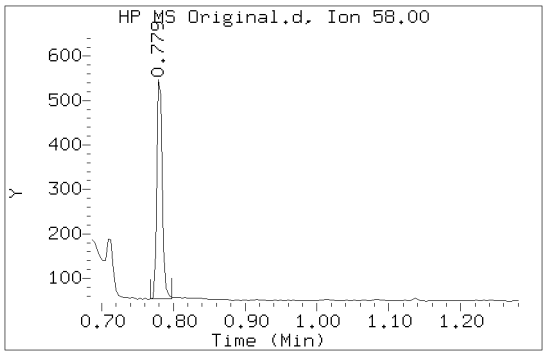



## 1,4-Dioxane ()

Reason Code:

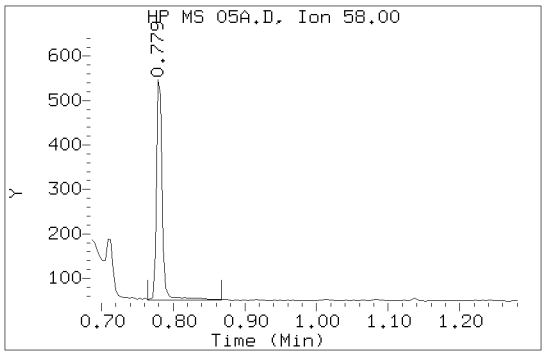
**BEFORE**

MASS
58
AREA
266
HEIGHT
493
29-Jun-2024
14:13
ALSHS
Server




**AFTER**

MASS
58
AREA
287
HEIGHT
496
29-Jun-2024
14:15

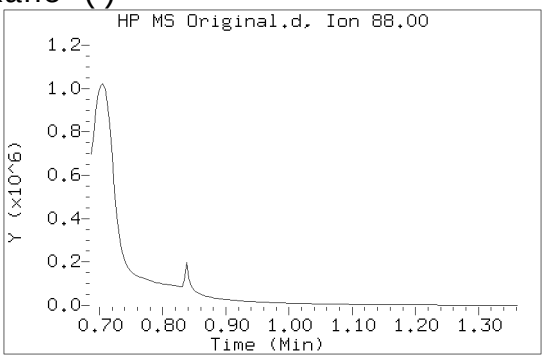


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Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

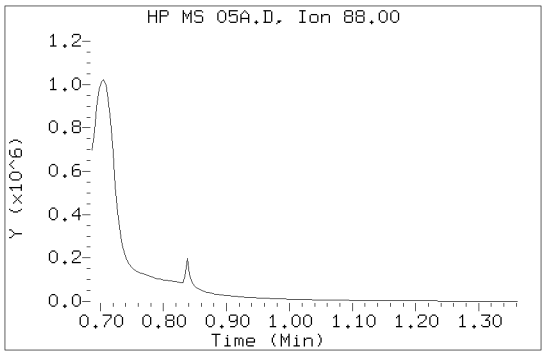
## 1,4-Dioxane ()

Reason Code:

BEFORE
MASS
88
AREA
0
HEIGHT
0
29-Jun-2024
14:13
ALSHS
Server



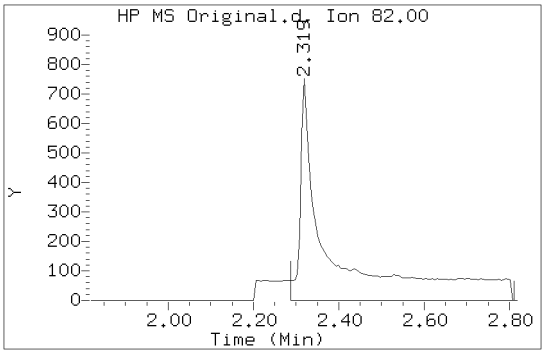

AFTER
MASS
88
AREA
0
HEIGHT
0
29-Jun-2024
14:15



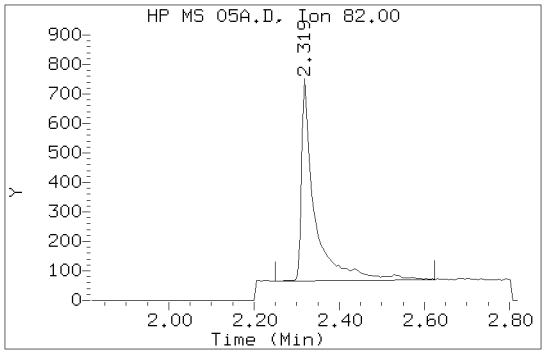

## Nitrobenzene-d5 (4165-60-0)

Reason Code:

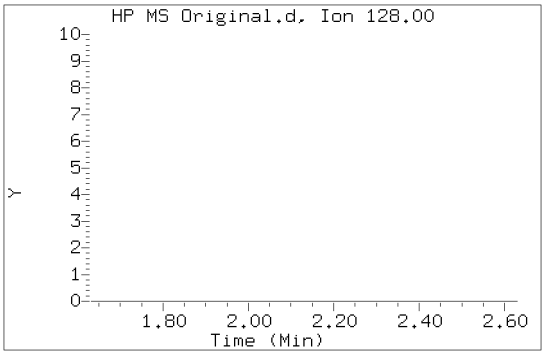
BEFORE
MASS
82
AREA
3627
HEIGHT
752
29-Jun-2024
14:13
ALSHS
Server



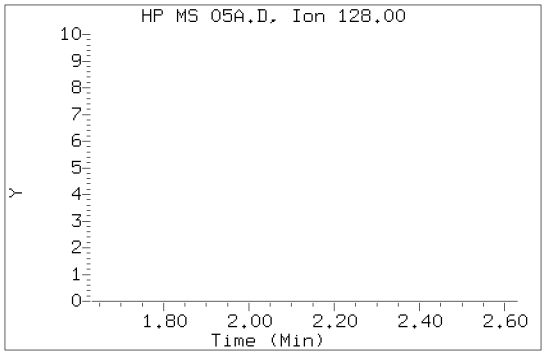

AFTER
MASS
82
AREA
1487
HEIGHT
686
29-Jun-2024
14:15



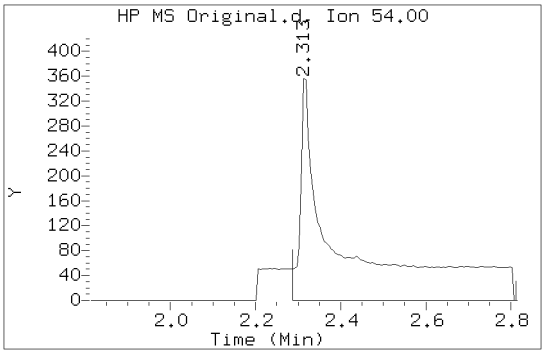

BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
14:13
ALSHS
Server



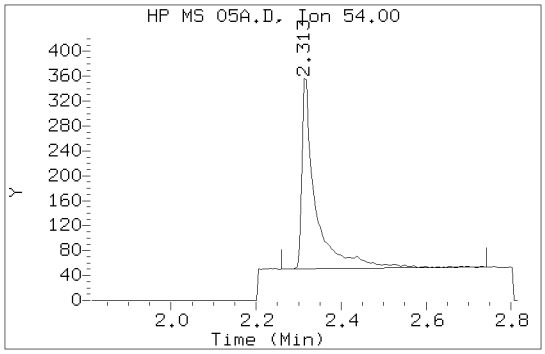

AFTER
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
14:15




BEFORE
MASS
54
AREA
2320
HEIGHT
356
29-Jun-2024
14:13
ALSHS
Server




AFTER
MASS
54
AREA
696
HEIGHT
305
29-Jun-2024
14:15

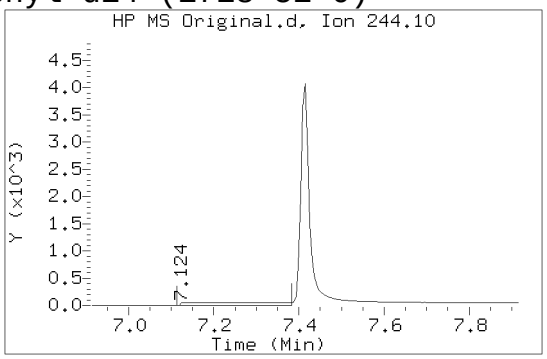


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

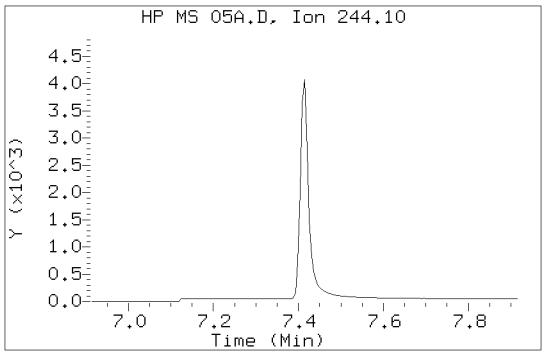
## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

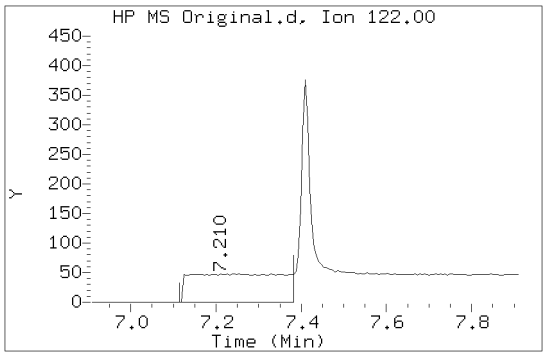
BEFORE
MASS
244.1
AREA
704
HEIGHT
45
29-Jun-2024
14:13
ALSHS
Server



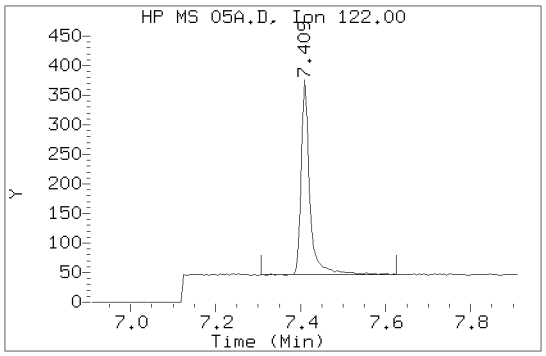

AFTER
MASS
244.1
AREA
8581
HEIGHT
4073
29-Jun-2024
14:15



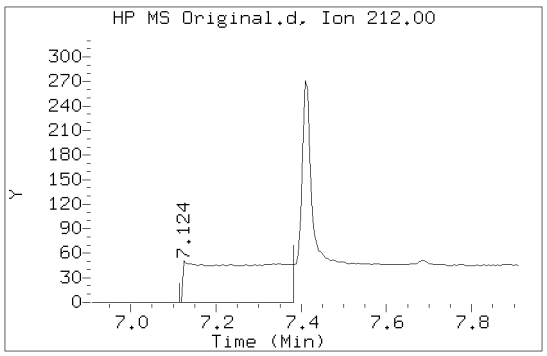

BEFORE
MASS
122
AREA
740
HEIGHT
48
29-Jun-2024
14:13
ALSHS
Server



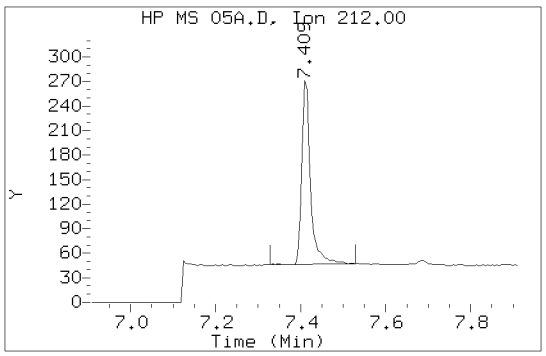

AFTER
MASS
122
AREA
455
HEIGHT
329
29-Jun-2024
14:15




BEFORE
MASS
212
AREA
725
HEIGHT
51
29-Jun-2024
14:13
ALSHS
Server



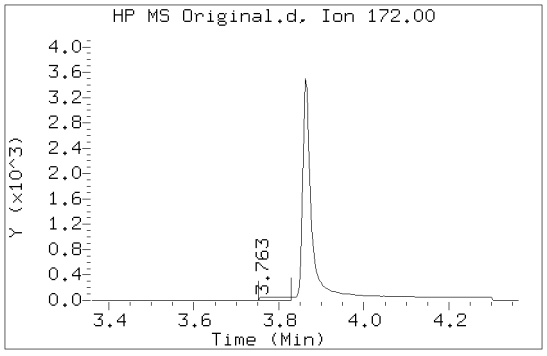

AFTER
MASS
212
AREA
318
HEIGHT
224
29-Jun-2024
14:15



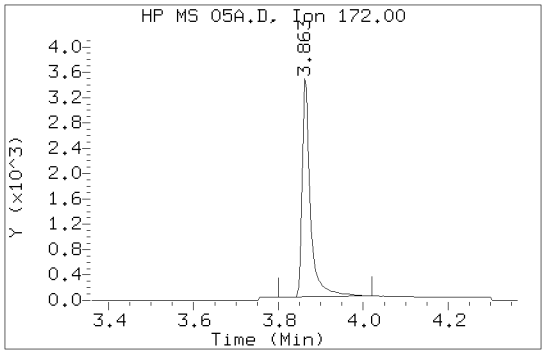

## 2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
215
HEIGHT
47
29-Jun-2024
14:13
ALSHS
Server




AFTER
MASS
172
AREA
4598
HEIGHT
3444
29-Jun-2024
14:15



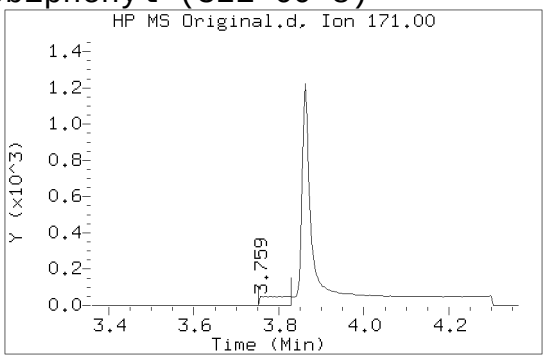
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

2-Fluorobiphenyl (321-60-8)

Reason Code:

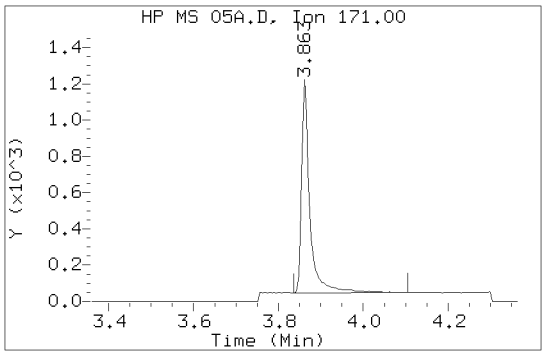
BEFORE

MASS
171
AREA
222
HEIGHT
49
29-Jun-2024
14:13
ALSHS
Server




AFTER

MASS
171
AREA
1572
HEIGHT
1176
29-Jun-2024
14:15



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\08.D Page 1
Report Date: 26-Jul-2024 08:49

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\08.D
Lab Smp Id: MBLK-213834
Inj Date : 29-JUN-2024 14:58
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-213834
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 26-Jul-2024 08:48 r.patel Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 1.921 | 1.916 | (1.000) | 2749 | 0.10000 | (aQ) |
| * 45 Naphthalene-d8 | 136 | 2.880 | 2.880 | (1.000) | 5842 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.318 | 2.318 | (0.805) | 1101 | 0.06278 | 0.06278(M) |
| * 86 Acenaphthene-d10 | 164 | 4.459 | 4.459 | (1.000) | 3645 | 0.10000 | (QM) |
| $ 69 2-Fluorobiphenyl | 172 | 3.866 | 3.866 | (0.867) | 3677 | 0.06599 | 0.06599(M) |
| * 126 Phenanthrene-d10 | 188 | 5.849 | 5.855 | (1.000) | 7029 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 8.361 | 8.366 | (1.000) | 10453 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.414 | 7.414 | (0.887) | 19786 | 0.09292 | 0.09292(M) |
| * 198 Perylene-d12 | 264 | 9.856 | 9.861 | (1.000) | 6052 | 0.10000 | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\08.D



Date : 29-JUN-2024 14:58

Client ID:

Instrument: SV6.i

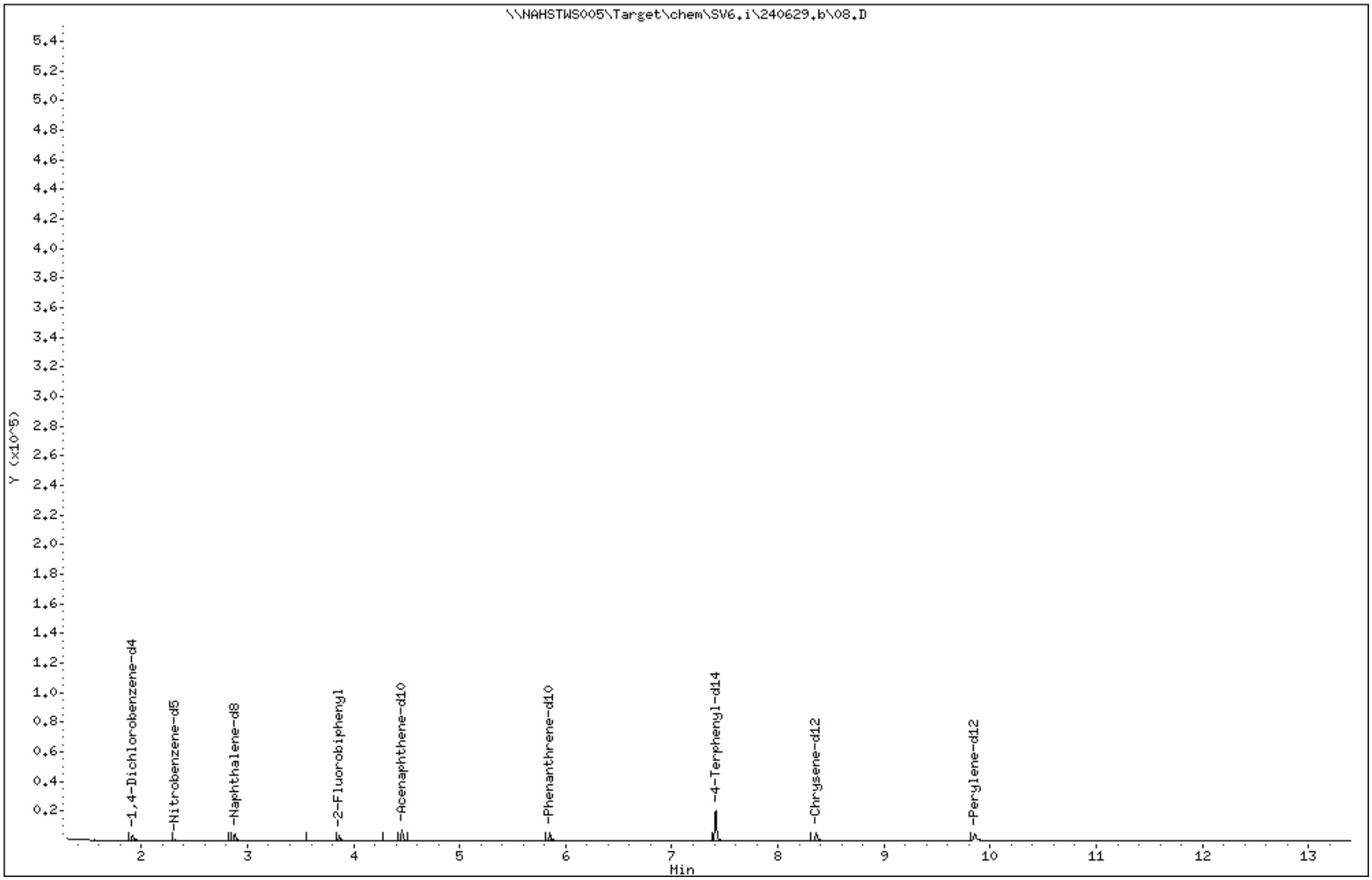
Sample Info: MBLK-213834

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



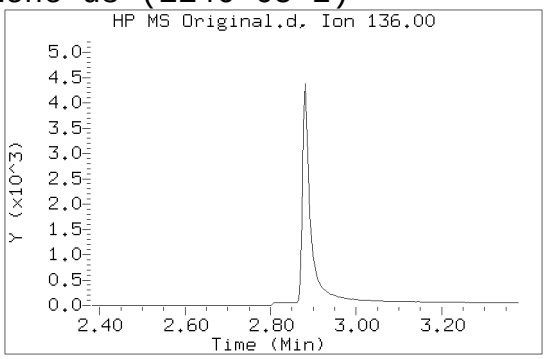
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\08.D
Inj Date : 29-JUN-2024 14:58
InstruID : SV6.i
LabSampID : MBLK-213834

## Naphthalene-d8 (1146-65-2)

Reason Code: MBA

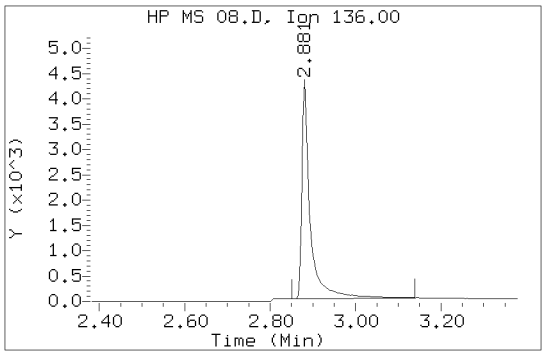
BEFORE

MASS
136
AREA
0
HEIGHT
0
29-Jun-2024
15:13
ALSHS
Server



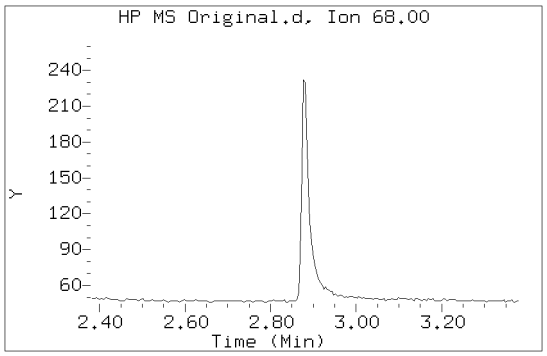

AFTER

MASS
136
AREA
5842
HEIGHT
4331
26-Jul-2024
08:49
ALSHS
S



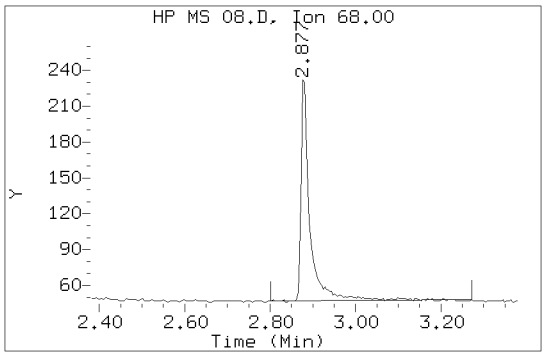

BEFORE

MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
15:13
ALSHS
Server




AFTER

MASS
68
AREA
261
HEIGHT
184
26-Jul-2024
08:49
ALSHS
S

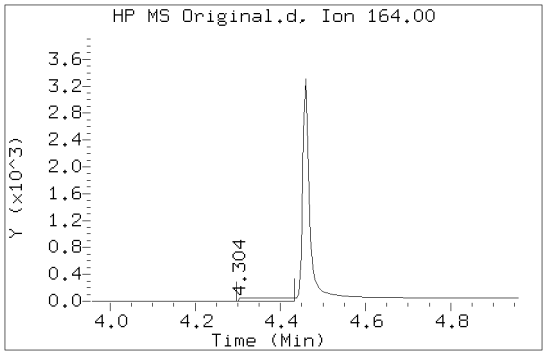



## Acenaphthene-d10 (15067-26-2)

Reason Code: MBA

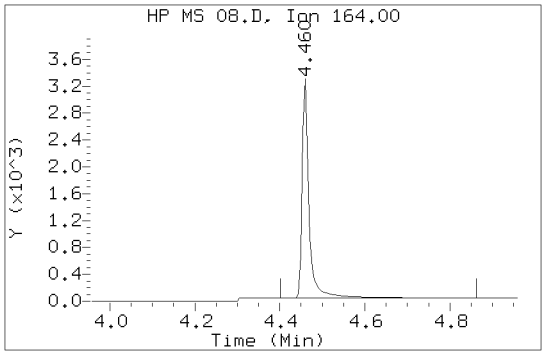
BEFORE

MASS
164
AREA
361
HEIGHT
47
29-Jun-2024
15:13
ALSHS
Server



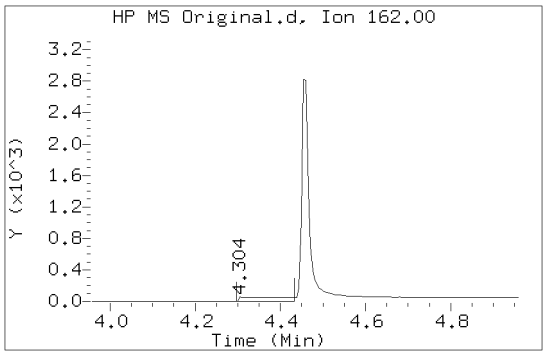

AFTER

MASS
164
AREA
3645
HEIGHT
3262
26-Jul-2024
08:49
ALSHS
S



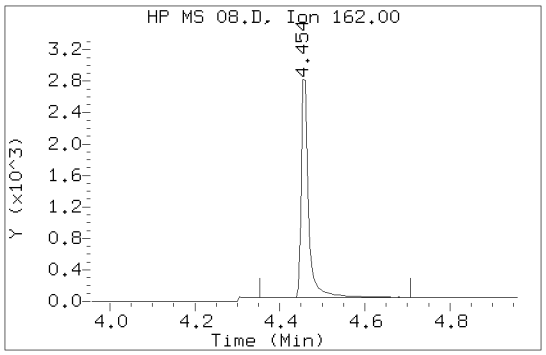

BEFORE

MASS
162
AREA
367
HEIGHT
57
29-Jun-2024
15:13
ALSHS
Server




AFTER

MASS
162
AREA
3303
HEIGHT
2770
26-Jul-2024
08:49
ALSHS
S



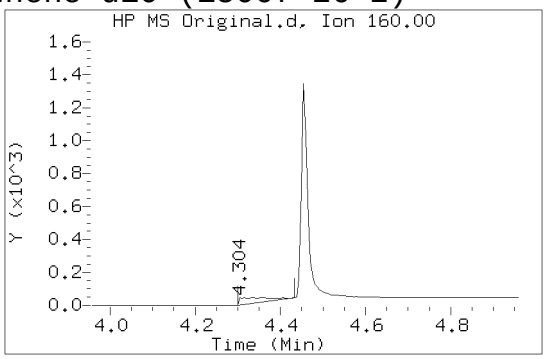
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\08.D
Inj Date : 29-JUN-2024 14:58
InstruID : SV6.i
LabSampID : MBLK-213834

## Acenaphthene-d10 (15067-26-2)

Reason Code: MBA

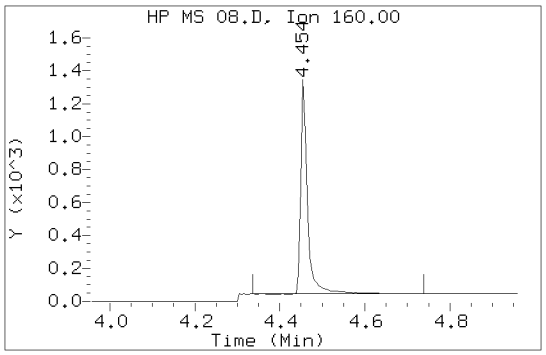
BEFORE

MASS
160
AREA
166
HEIGHT
43
29-Jun-2024
15:13
ALSHS
Server




AFTER

MASS
160
AREA
1408
HEIGHT
1300
26-Jul-2024
08:49
ALSHS
S

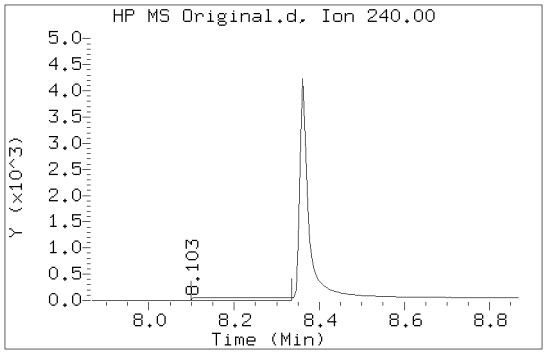



## Chrysene-d12 (1719-03-5)

Reason Code: MBA

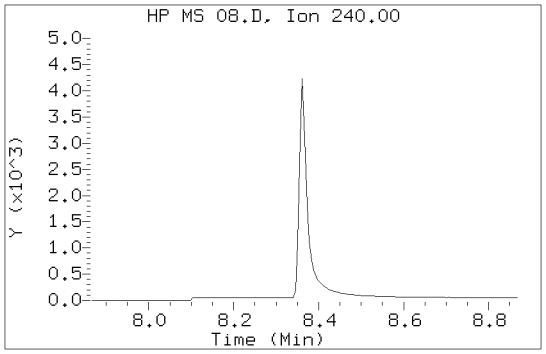
BEFORE

MASS
240
AREA
642
HEIGHT
46
29-Jun-2024
15:13
ALSHS
Server



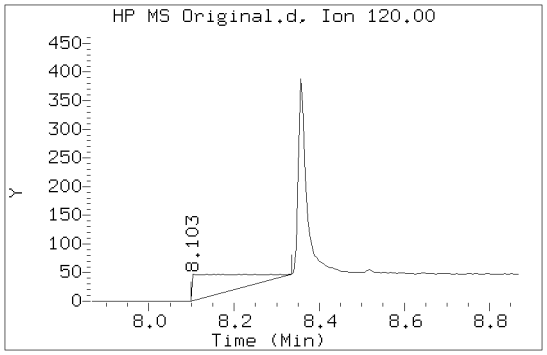

AFTER

MASS
240
AREA
10453
HEIGHT
4232
26-Jul-2024
08:49
ALSHS
S



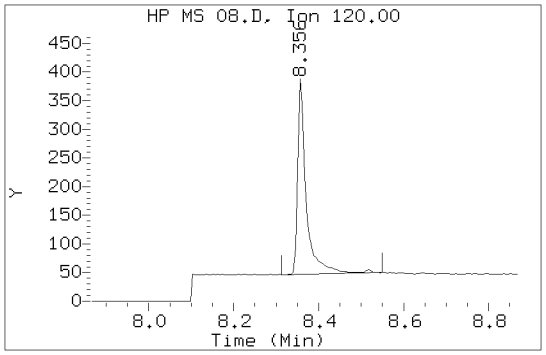

BEFORE

MASS
120
AREA
316
HEIGHT
45
29-Jun-2024
15:13
ALSHS
Server



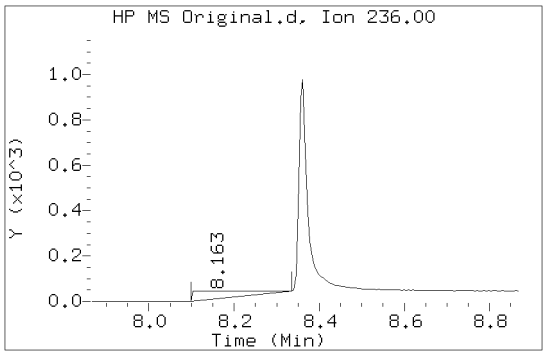

AFTER

MASS
120
AREA
479
HEIGHT
341
26-Jul-2024
08:49
ALSHS
S



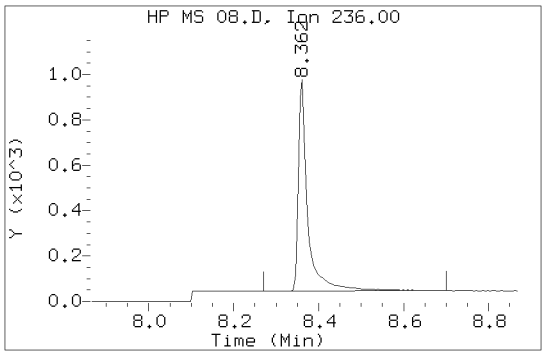

BEFORE

MASS
236
AREA
306
HEIGHT
33
29-Jun-2024
15:13
ALSHS
Server




AFTER

MASS
236
AREA
1432
HEIGHT
932
26-Jul-2024
08:49
ALSHS
S

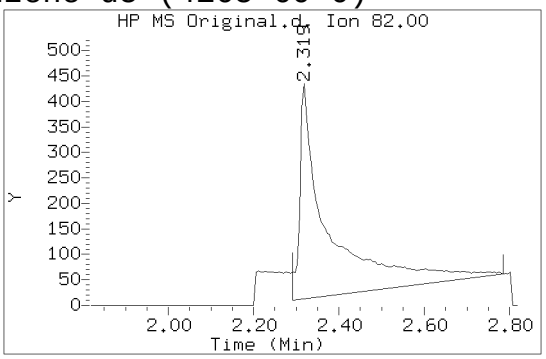


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\08.D
Inj Date : 29-JUN-2024 14:58
InstruID : SV6.i
LabSampID : MBLK-213834

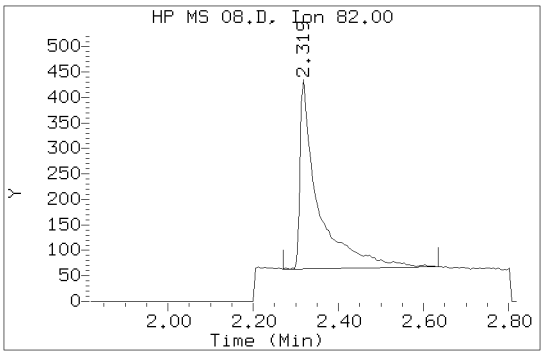
## Nitrobenzene-d5 (4165-60-0)

Reason Code: MBA

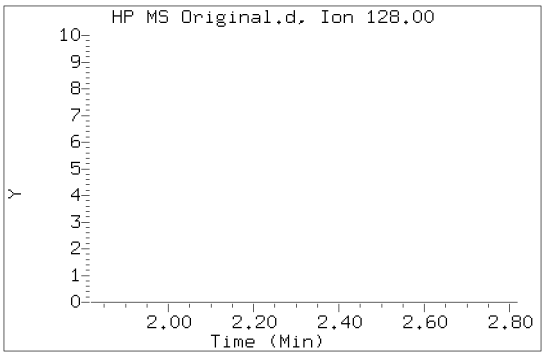
BEFORE
MASS
82
AREA
1985
HEIGHT
422
29-Jun-2024
15:13
ALSHS
Server



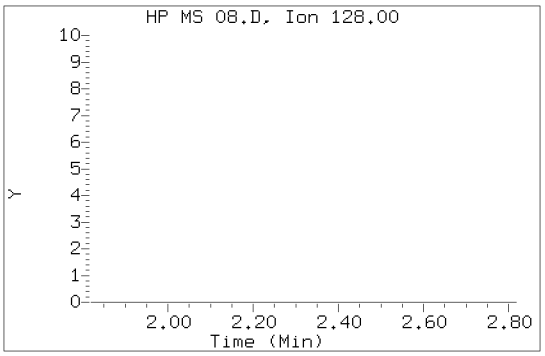

AFTER
MASS
82
AREA
1101
HEIGHT
371
26-Jul-2024
08:49
ALSHS
S



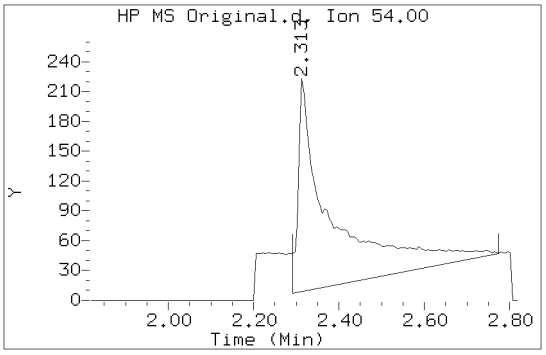

BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
15:13
ALSHS
Server



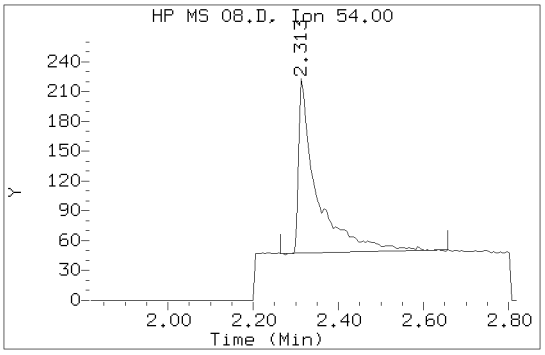

AFTER
MASS
128
AREA
0
HEIGHT
0
26-Jul-2024
08:49
ALSHS
S




BEFORE
MASS
54
AREA
1168
HEIGHT
214
29-Jun-2024
15:13
ALSHS
Server



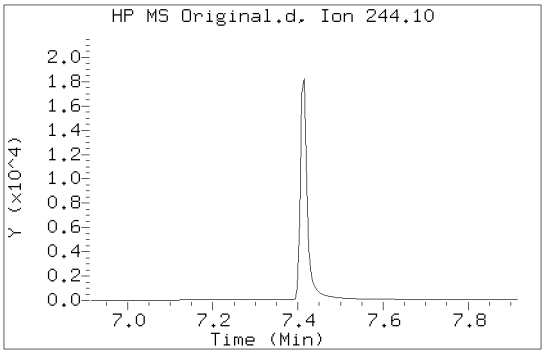

AFTER
MASS
54
AREA
518
HEIGHT
175
26-Jul-2024
08:49
ALSHS
S



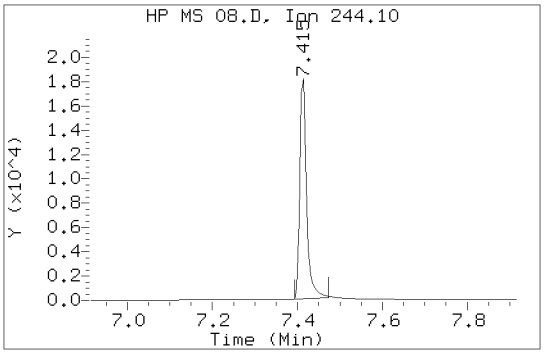

## 4-Terphenyl-d14 (1718-51-0)

Reason Code: MBA

BEFORE
MASS
244.1
AREA
0
HEIGHT
0
29-Jun-2024
15:13
ALSHS
Server




AFTER
MASS
244.1
AREA
19786
HEIGHT
18099
26-Jul-2024
08:49
ALSHS
S



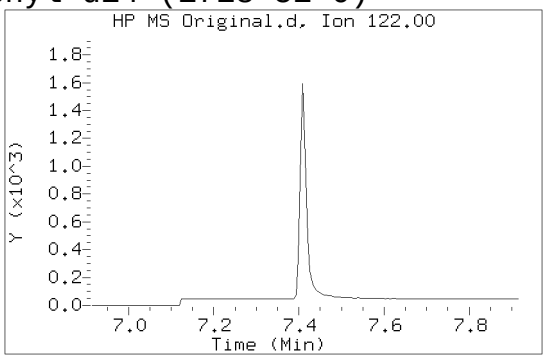
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\08.D
Inj Date : 29-JUN-2024 14:58
InstruID : SV6.i
LabSampID : MBLK-213834

## 4-Terphenyl-d14 (1718-51-0)

Reason Code: MBA

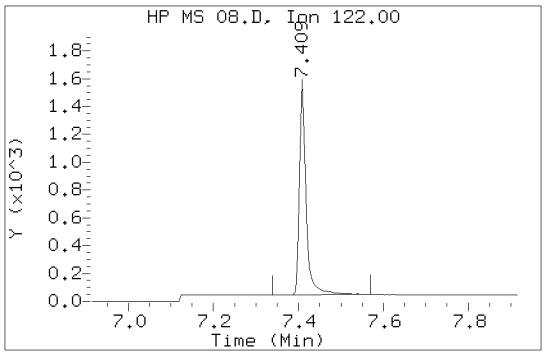
BEFORE

MASS
122
AREA
0
HEIGHT
0
29-Jun-2024
15:13
ALSHS
Server



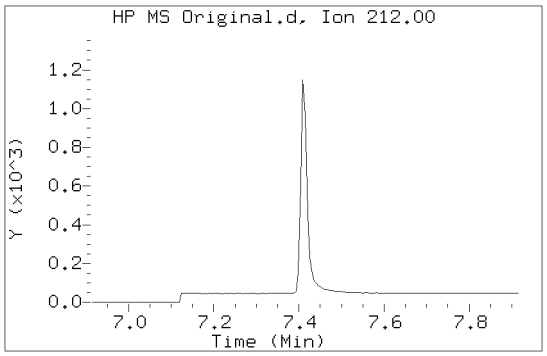

AFTER

MASS
122
AREA
1651
HEIGHT
1546
26-Jul-2024
08:49
ALSHS
S



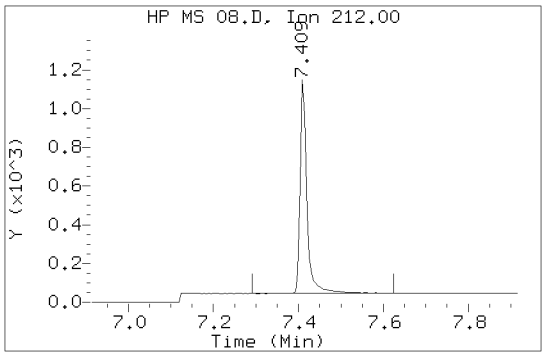

BEFORE

MASS
212
AREA
0
HEIGHT
0
29-Jun-2024
15:13
ALSHS
Server




AFTER

MASS
212
AREA
1220
HEIGHT
1102
26-Jul-2024
08:49
ALSHS
S

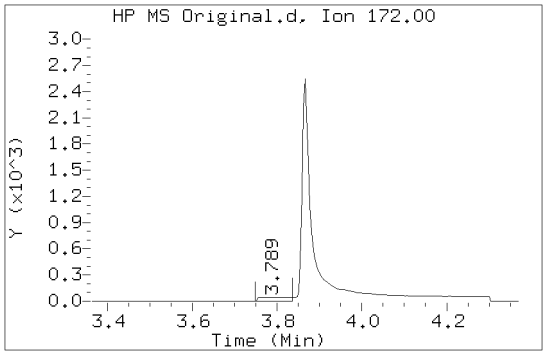



## 2-Fluorobiphenyl (321-60-8)

Reason Code: MBA

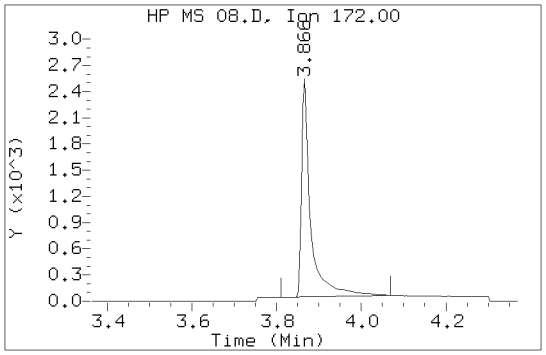
BEFORE

MASS
172
AREA
224
HEIGHT
45
29-Jun-2024
15:13
ALSHS
Server



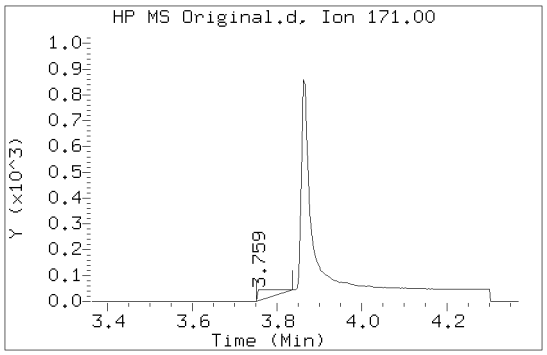

AFTER

MASS
172
AREA
3677
HEIGHT
2497
26-Jul-2024
08:49
ALSHS
S



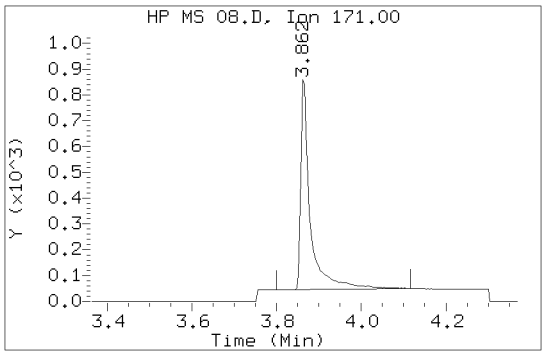

BEFORE

MASS
171
AREA
105
HEIGHT
41
29-Jun-2024
15:13
ALSHS
Server




AFTER

MASS
171
AREA
1255
HEIGHT
813
26-Jul-2024
08:49
ALSHS
S



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\09.D Page 1
Report Date: 01-Jul-2024 16:22

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\09.D
Lab Smp Id: LCS-213834
Inj Date : 29-JUN-2024 15:15
Operator : LG Inst ID: SV6.i
Smp Info : LCS-213834
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 01-Jul-2024 08:31 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 1.916 | 1.916 | (1.000) | 1438 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 2.880 | 2.880 | (1.000) | 4462 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.318 | 2.318 | (0.805) | 862 | 0.06435 | 0.06435(M) |
| * 86 Acenaphthene-d10 | 164 | 4.459 | 4.459 | (1.000) | 2780 | 0.10000 | (QM) |
| $ 69 2-Fluorobiphenyl | 172 | 3.866 | 3.866 | (0.867) | 2471 | 0.05815 | 0.05814(M) |
| * 126 Phenanthrene-d10 | 188 | 5.849 | 5.855 | (1.000) | 5492 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 8.361 | 8.366 | (1.000) | 4776 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.414 | 7.414 | (0.887) | 4458 | 0.04582 | 0.04582(M) |
| * 198 Perylene-d12 | 264 | 9.856 | 9.861 | (1.000) | 4771 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 0.731 | 0.719 | (0.382) | 189 | 0.06136 | 0.06136(M) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\09.D



Date : 29-JUN-2024 15:15

Client ID:

Instrument: SV6.i

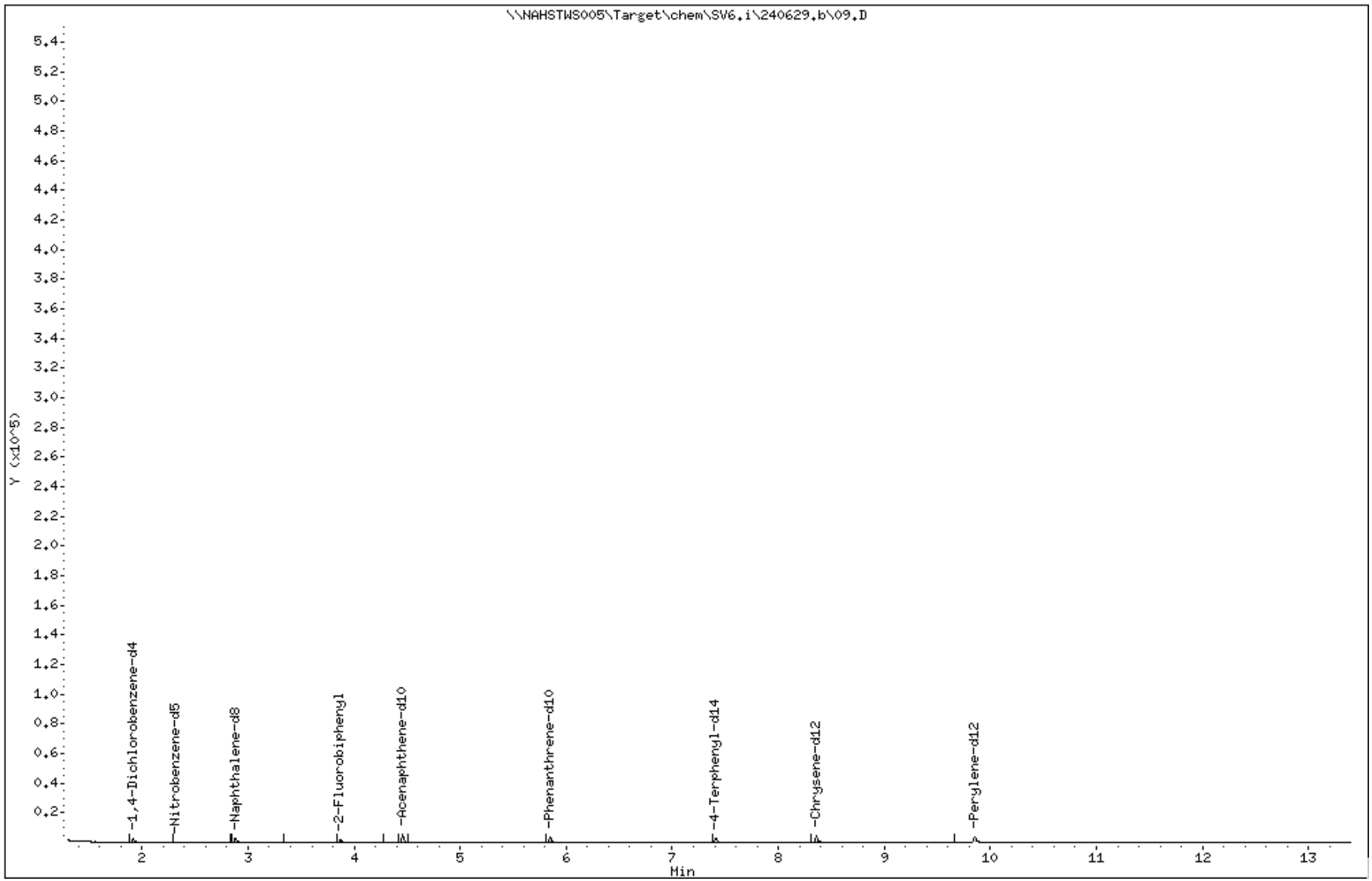
Sample Info: LCS-213834

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

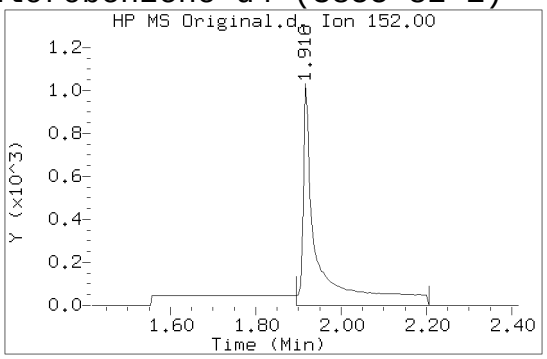


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Inj Date : 29-JUN-2024 15:15
InstruID : SV6.i
LabSampID : LCS-213834

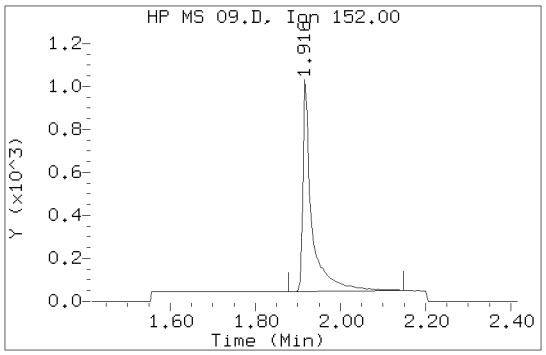
## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code: MBA

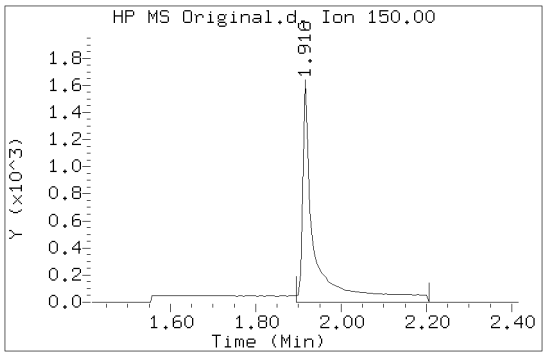
BEFORE
MASS
152
AREA
2352
HEIGHT
1032
29-Jun-2024
15:29
ALSHS
Server



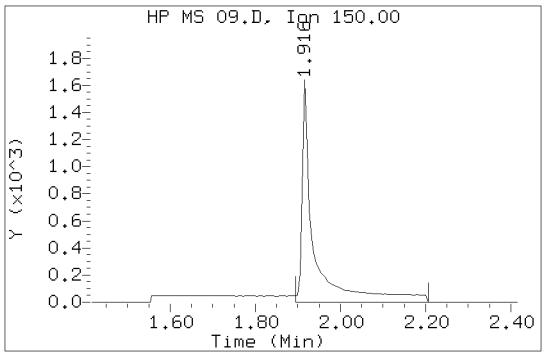

AFTER
MASS
152
AREA
1438
HEIGHT
986
01-Jul-2024
16:22



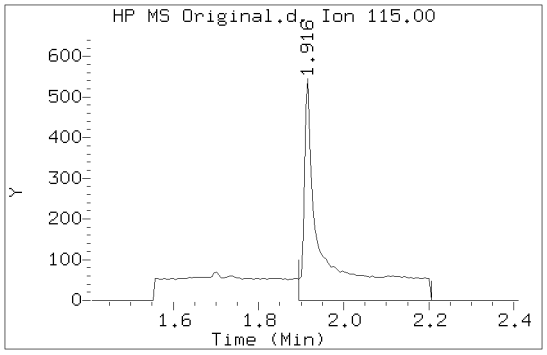

BEFORE
MASS
150
AREA
3216
HEIGHT
1641
29-Jun-2024
15:29
ALSHS
Server



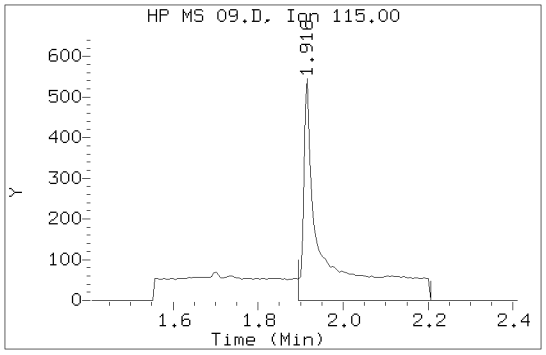

AFTER
MASS
150
AREA
3216
HEIGHT
1641
01-Jul-2024
16:22




BEFORE
MASS
115
AREA
1740
HEIGHT
545
29-Jun-2024
15:29
ALSHS
Server



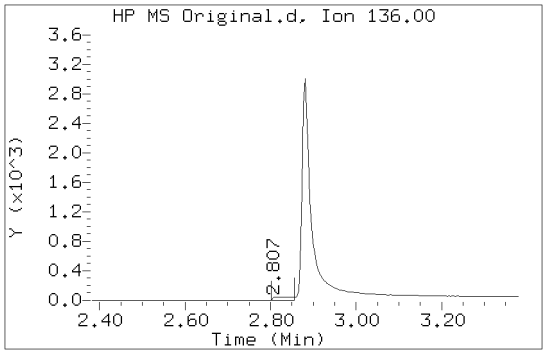

AFTER
MASS
115
AREA
1740
HEIGHT
545
01-Jul-2024
16:22



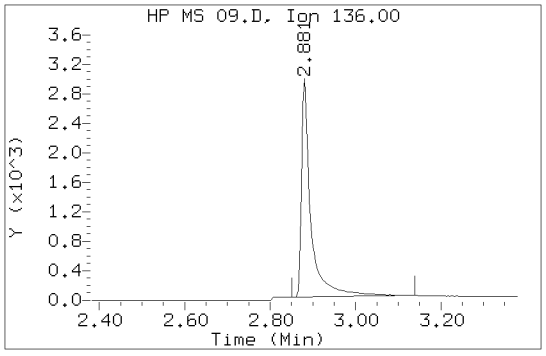

## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
144
HEIGHT
46
29-Jun-2024
15:29
ALSHS
Server




AFTER
MASS
136
AREA
4462
HEIGHT
2956
01-Jul-2024
16:22



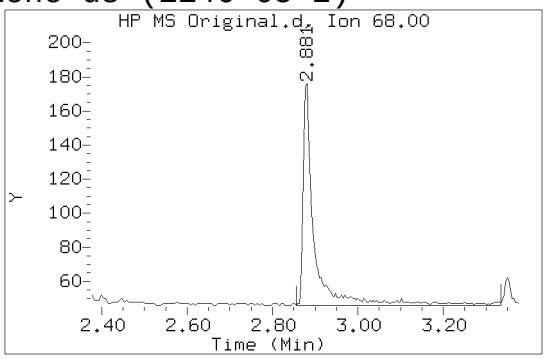
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\09.D
Inj Date : 29-JUN-2024 15:15
InstruID : SV6.i
LabSampID : LCS-213834

## Naphthalene-d8 (1146-65-2)

Reason Code:

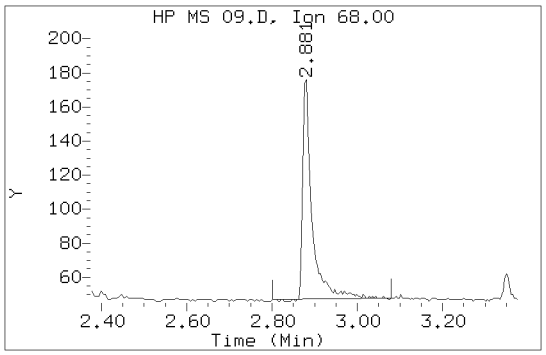
**BEFORE**

MASS
68
AREA
237
HEIGHT
130
29-Jun-2024
15:29
ALSHS
Server




**AFTER**

MASS
68
AREA
193
HEIGHT
128
01-Jul-2024
16:22

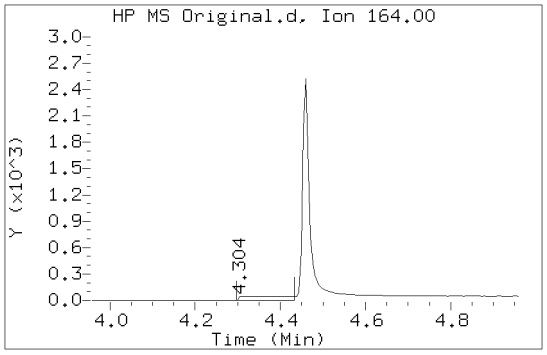



## Acenaphthene-d10 (15067-26-2)

Reason Code:

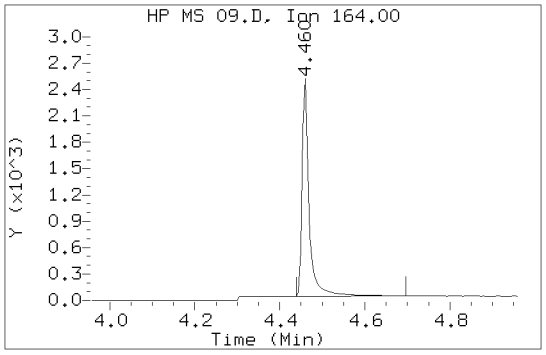
**BEFORE**

MASS
164
AREA
358
HEIGHT
46
29-Jun-2024
15:29
ALSHS
Server



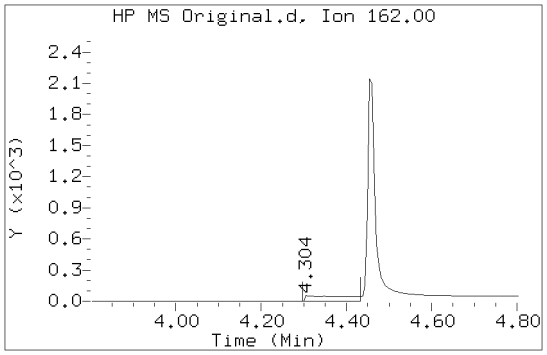

**AFTER**

MASS
164
AREA
2780
HEIGHT
2475
01-Jul-2024
16:22



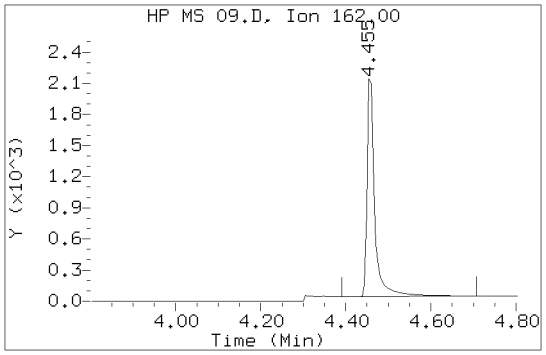

**BEFORE**

MASS
162
AREA
363
HEIGHT
56
29-Jun-2024
15:29
ALSHS
Server



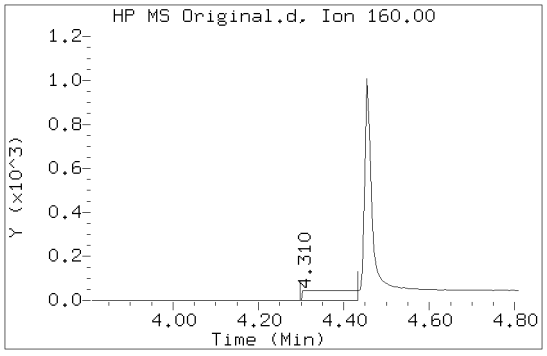

**AFTER**

MASS
162
AREA
2556
HEIGHT
2094
01-Jul-2024
16:22



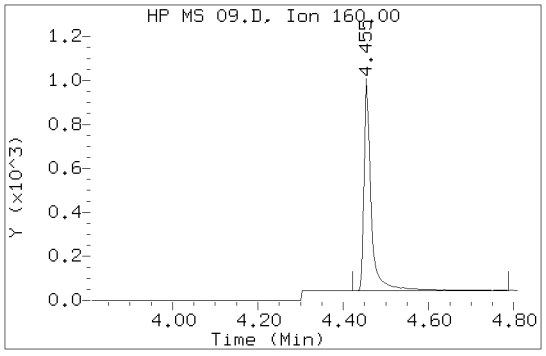

**BEFORE**

MASS
160
AREA
346
HEIGHT
45
29-Jun-2024
15:29
ALSHS
Server




**AFTER**

MASS
160
AREA
1114
HEIGHT
963
01-Jul-2024
16:22

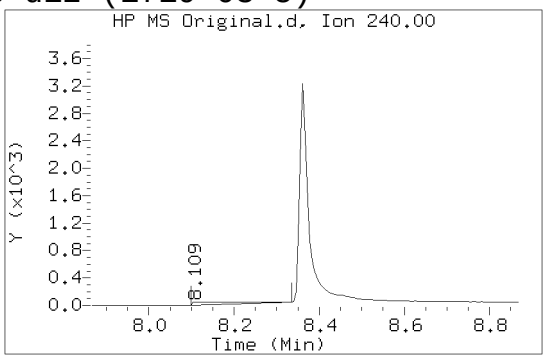


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\09.D
Inj Date : 29-JUN-2024 15:15
InstruID : SV6.i
LabSampID : LCS-213834

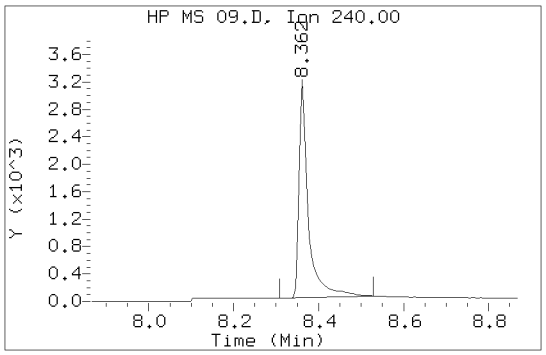
## Chrysene-d12 (1719-03-5)

Reason Code:

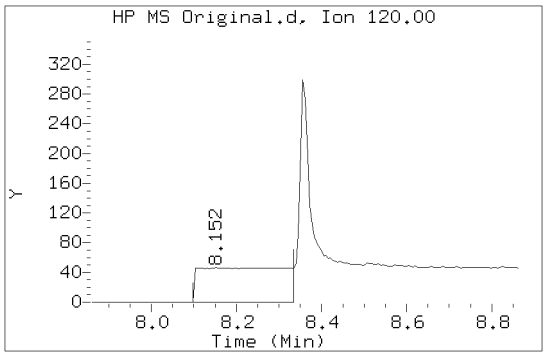
BEFORE
MASS
240
AREA
303
HEIGHT
42
29-Jun-2024
15:29
ALSHS
Server



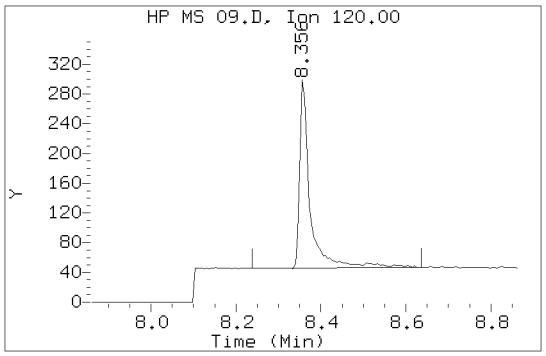

AFTER
MASS
240
AREA
4776
HEIGHT
3180
01-Jul-2024
16:22



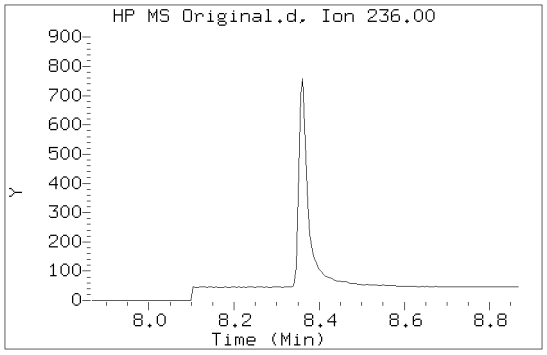

BEFORE
MASS
120
AREA
652
HEIGHT
47
29-Jun-2024
15:29
ALSHS
Server



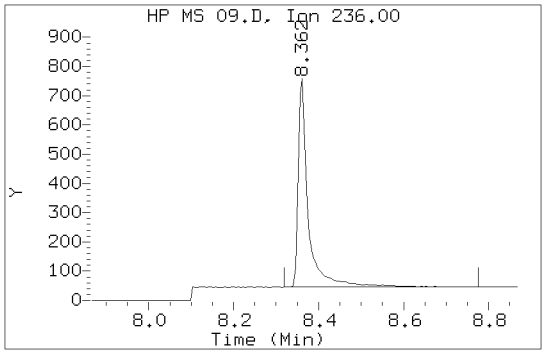

AFTER
MASS
120
AREA
423
HEIGHT
252
01-Jul-2024
16:22




BEFORE
MASS
236
AREA
0
HEIGHT
0
29-Jun-2024
15:29
ALSHS
Server



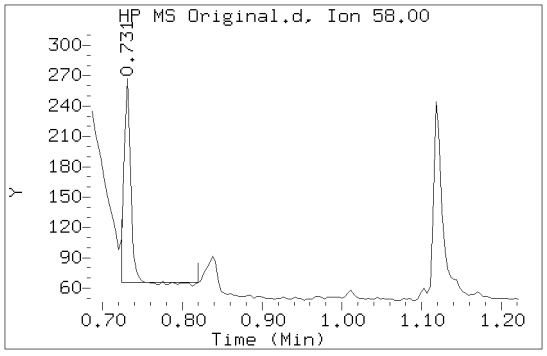

AFTER
MASS
236
AREA
1176
HEIGHT
712
01-Jul-2024
16:22



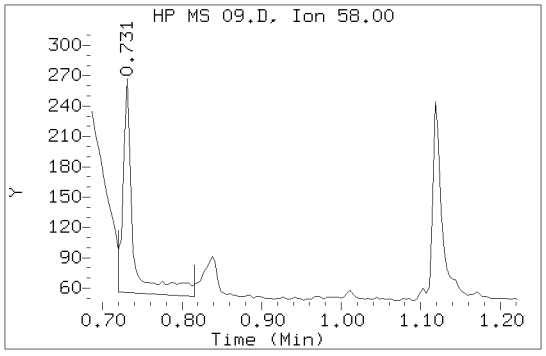

## 1,4-Dioxane ()

Reason Code:

BEFORE
MASS
58
AREA
111
HEIGHT
201
29-Jun-2024
15:29
ALSHS
Server




AFTER
MASS
58
AREA
189
HEIGHT
211
01-Jul-2024
16:22



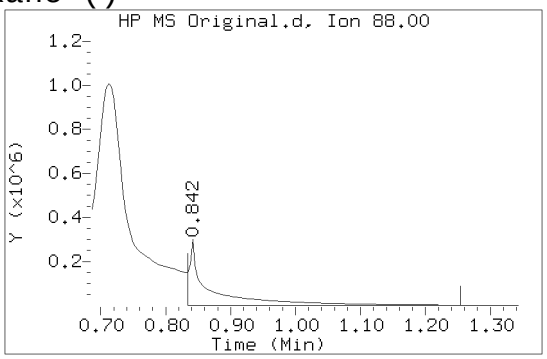
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\09.D
Inj Date : 29-JUN-2024 15:15
InstruID : SV6.i
LabSampID : LCS-213834

## 1,4-Dioxane ()

Reason Code:

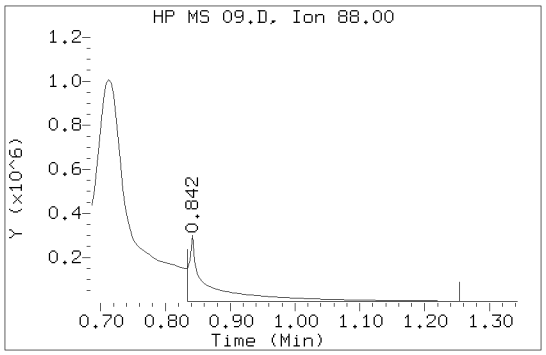
BEFORE

MASS
88
AREA
606865
HEIGHT
297844
29-Jun-2024
15:29
ALSHS
Server




AFTER

MASS
88
AREA
606865
HEIGHT
297844
01-Jul-2024
16:22

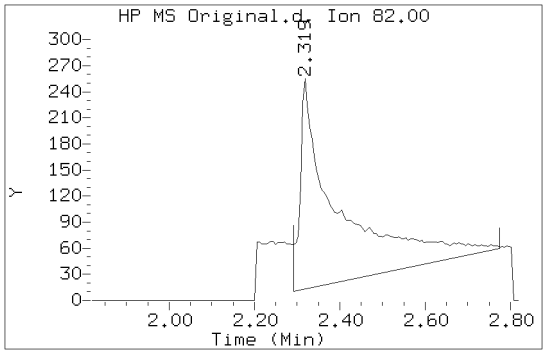



## Nitrobenzene-d5 (4165-60-0)

Reason Code: MBA

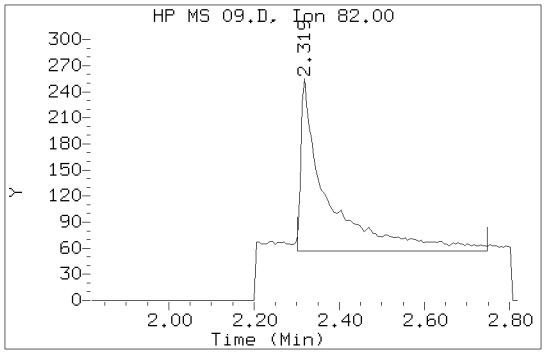
BEFORE

MASS
82
AREA
1521
HEIGHT
242
29-Jun-2024
15:29
ALSHS
Server



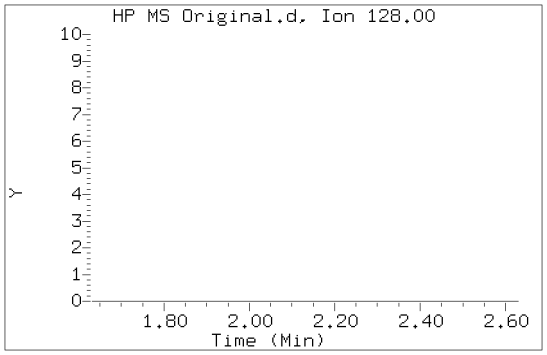

AFTER

MASS
82
AREA
862
HEIGHT
198
01-Jul-2024
16:22



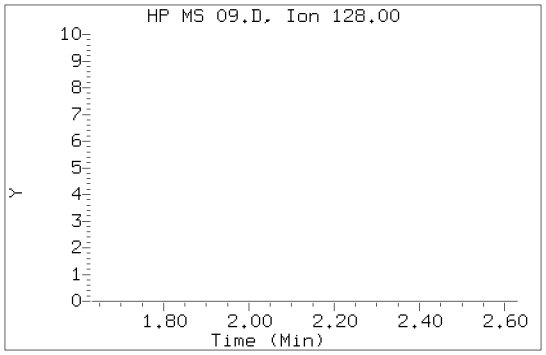

BEFORE

MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
15:29
ALSHS
Server



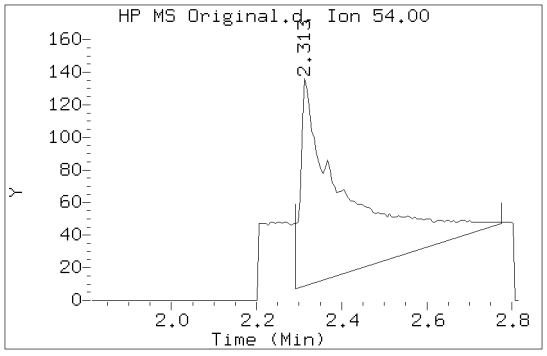

AFTER

MASS
128
AREA
0
HEIGHT
0
01-Jul-2024
16:22



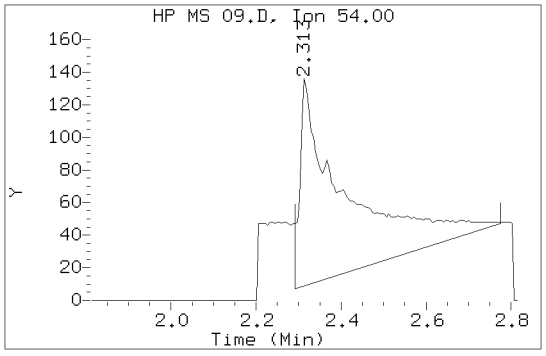

BEFORE

MASS
54
AREA
946
HEIGHT
127
29-Jun-2024
15:29
ALSHS
Server




AFTER

MASS
54
AREA
946
HEIGHT
127
01-Jul-2024
16:22



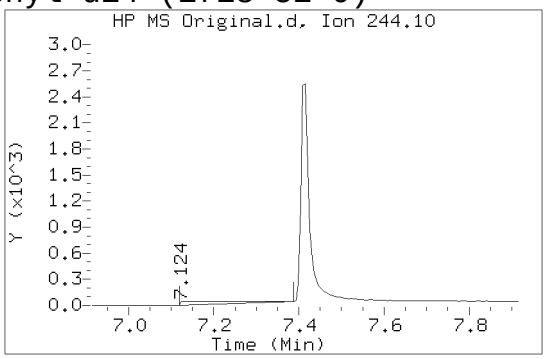
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\09.D
Inj Date : 29-JUN-2024 15:15
InstruID : SV6.i
LabSampID : LCS-213834

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

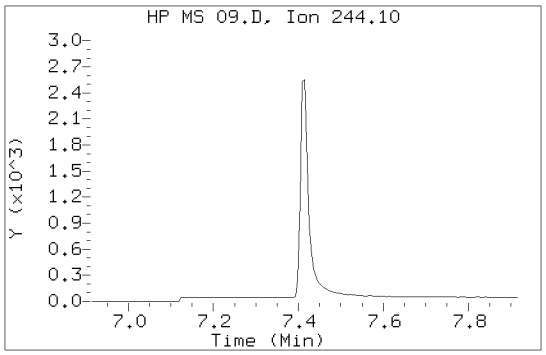
**BEFORE**

MASS
244.1
AREA
347
HEIGHT
43
29-Jun-2024
15:29
ALSHS
Server



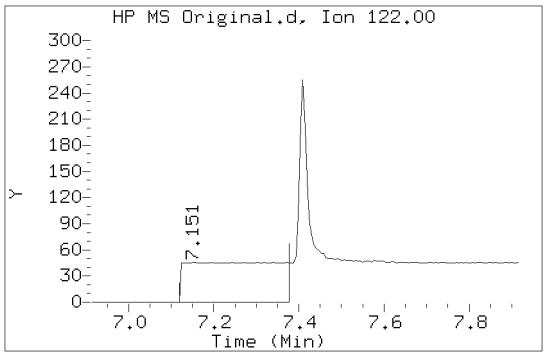

**AFTER**

MASS
244.1
AREA
4458
HEIGHT
2530
01-Jul-2024
16:22



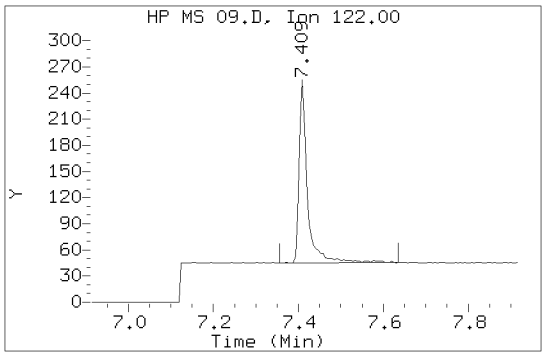

**BEFORE**

MASS
122
AREA
700
HEIGHT
46
29-Jun-2024
15:29
ALSHS
Server



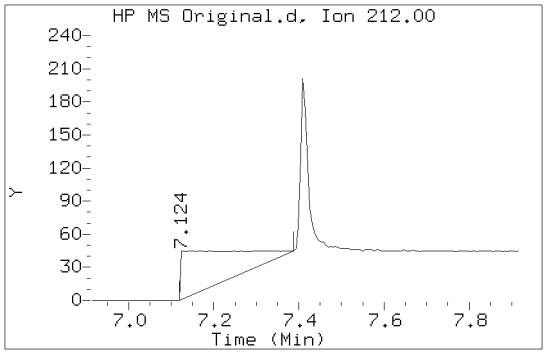

**AFTER**

MASS
122
AREA
281
HEIGHT
209
01-Jul-2024
16:22



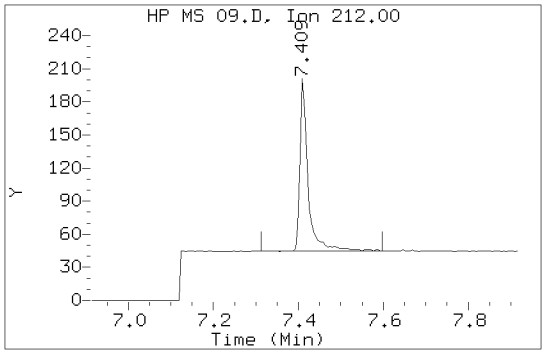

**BEFORE**

MASS
212
AREA
349
HEIGHT
44
29-Jun-2024
15:29
ALSHS
Server




**AFTER**

MASS
212
AREA
203
HEIGHT
156
01-Jul-2024
16:22

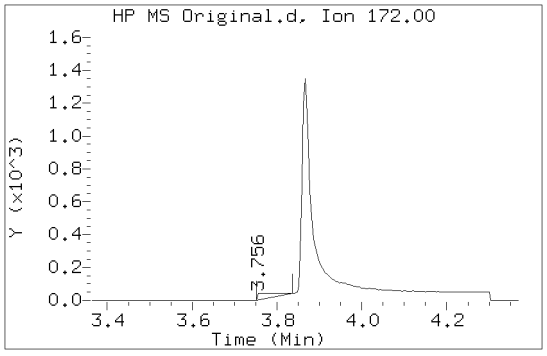



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

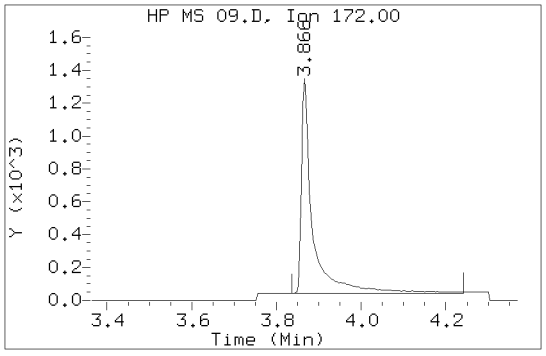
**BEFORE**

MASS
172
AREA
106
HEIGHT
42
29-Jun-2024
15:29
ALSHS
Server




**AFTER**

MASS
172
AREA
2471
HEIGHT
1308
01-Jul-2024
16:22



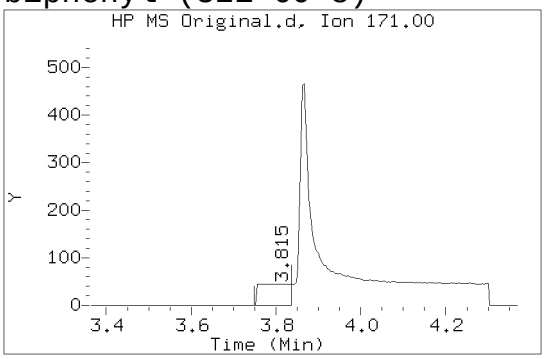
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\09.D
Inj Date : 29-JUN-2024 15:15
InstruID : SV6.i
LabSampID : LCS-213834

2-Fluorobiphenyl (321-60-8)

Reason Code:

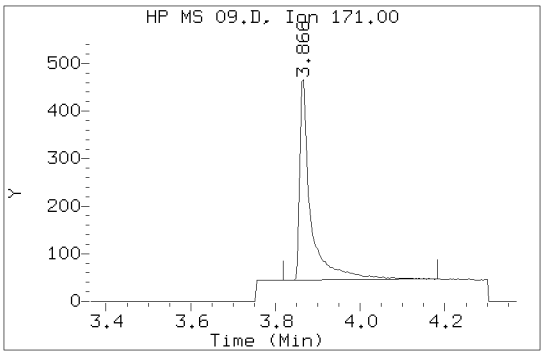
BEFORE

MASS
171
AREA
223
HEIGHT
45
29-Jun-2024
15:29
ALSHS
Server




AFTER

MASS
171
AREA
763
HEIGHT
421
01-Jul-2024
16:22



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\10.D Page 1
Report Date: 01-Jul-2024 16:23

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\10.D
Lab Smp Id: LCSD-213834
Inj Date : 29-JUN-2024 15:33
Operator : LG Inst ID: SV6.i
Smp Info : LCSD-213834
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 01-Jul-2024 08:31 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 10 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 1.921 | 1.916 | (1.000) | 1848 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 2.880 | 2.880 | (1.000) | 6548 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.318 | 2.318 | (0.805) | 1233 | 0.06272 | 0.06272(M) |
| * 86 Acenaphthene-d10 | 164 | 4.459 | 4.459 | (1.000) | 3928 | 0.10000 | (QM) |
| $ 69 2-Fluorobiphenyl | 172 | 3.866 | 3.866 | (0.867) | 3218 | 0.05359 | 0.05359(M) |
| * 126 Phenanthrene-d10 | 188 | 5.850 | 5.855 | (1.000) | 7748 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 8.361 | 8.366 | (1.000) | 7330 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.409 | 7.414 | (0.886) | 5114 | 0.03425 | 0.03425(M) |
| * 198 Perylene-d12 | 264 | 9.851 | 9.861 | (1.000) | 7279 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 0.764 | 0.719 | (0.398) | 251 | 0.06341 | 0.06341(M) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\10.D



Date : 29-JUN-2024 15:33

Client ID:

Instrument: SV6.i

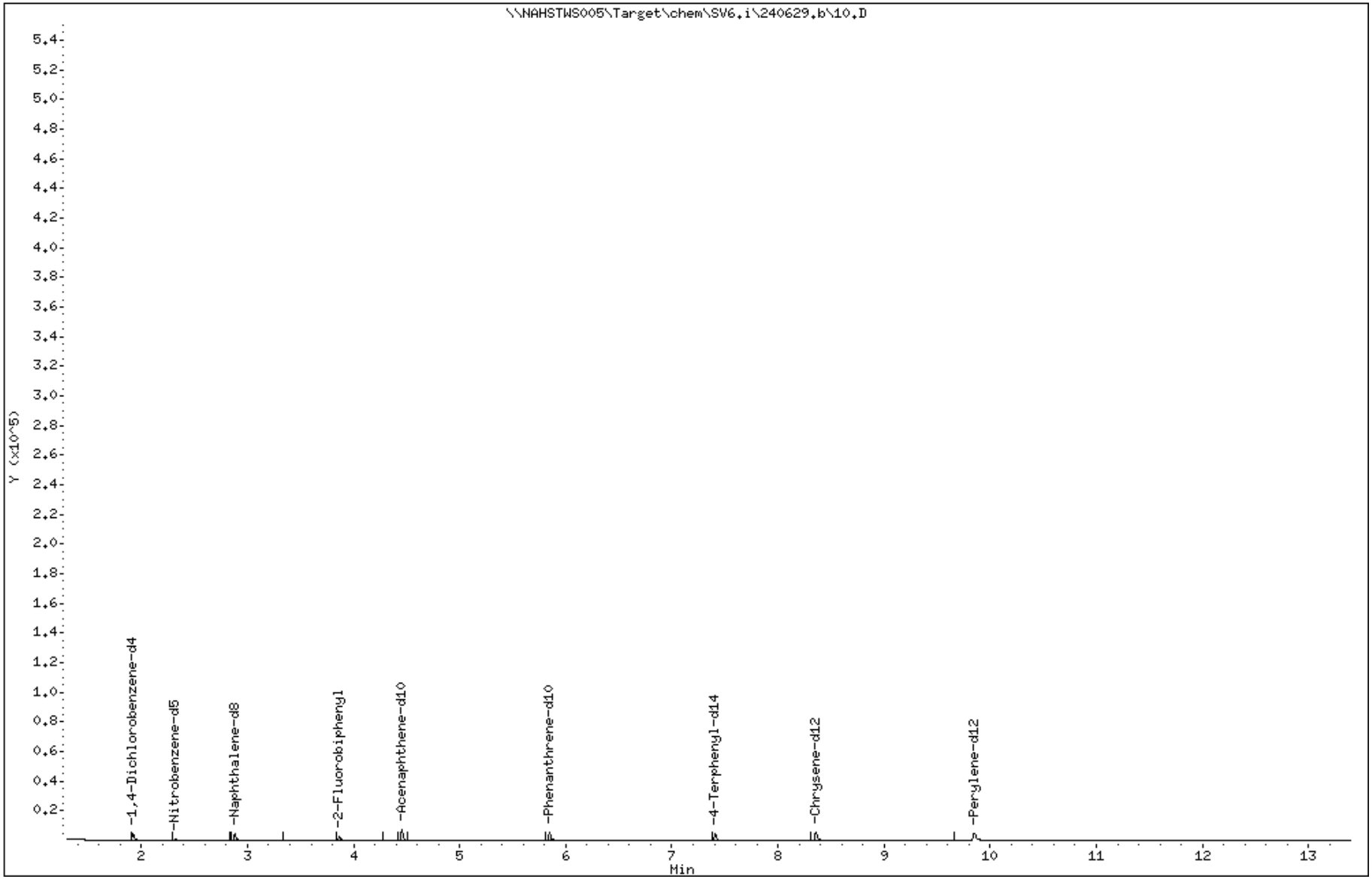
Sample Info: LCSD-213834

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



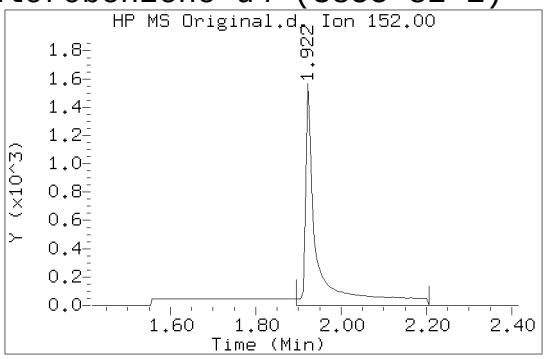
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\10.D
Inj Date : 29-JUN-2024 15:33
InstruID : SV6.i
LabSampID : LCSD-213834

## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

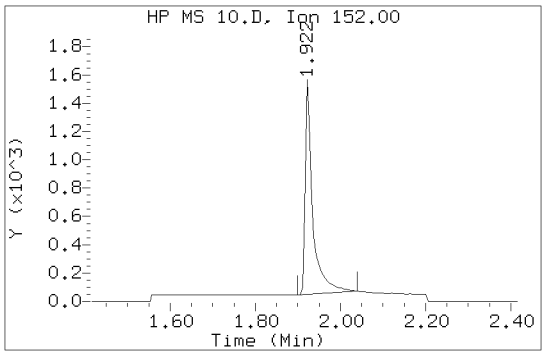
**BEFORE**

MASS
152
AREA
2925
HEIGHT
1566
29-Jun-2024
15:48
ALSHS
Server



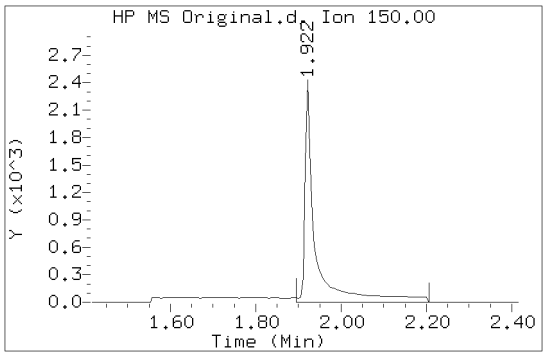

**AFTER**

MASS
152
AREA
1848
HEIGHT
1516
01-Jul-2024
16:23



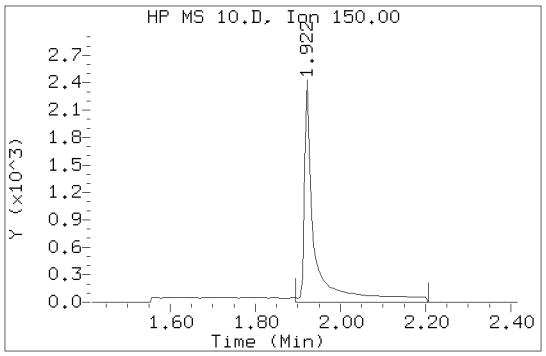

**BEFORE**

MASS
150
AREA
4106
HEIGHT
2430
29-Jun-2024
15:48
ALSHS
Server



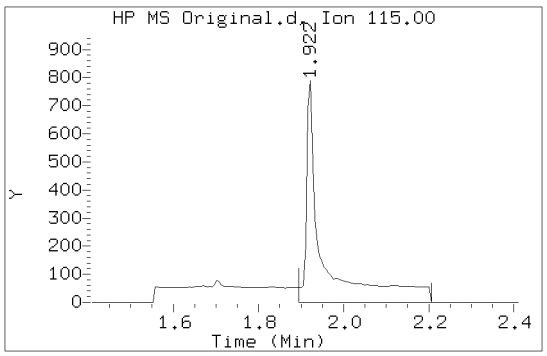

**AFTER**

MASS
150
AREA
4106
HEIGHT
2430
01-Jul-2024
16:23



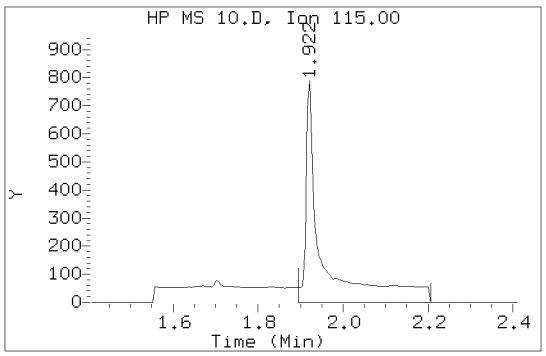

**BEFORE**

MASS
115
AREA
2027
HEIGHT
789
29-Jun-2024
15:48
ALSHS
Server




**AFTER**

MASS
115
AREA
2027
HEIGHT
789
01-Jul-2024
16:23

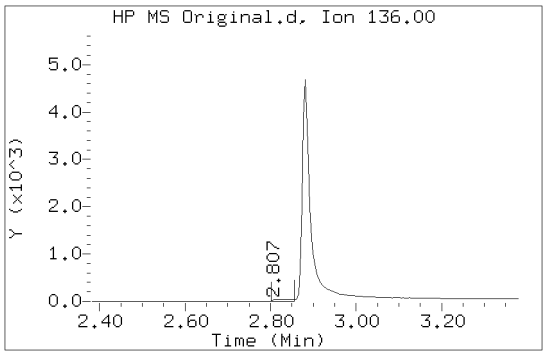



## Naphthalene-d8 (1146-65-2)

Reason Code:

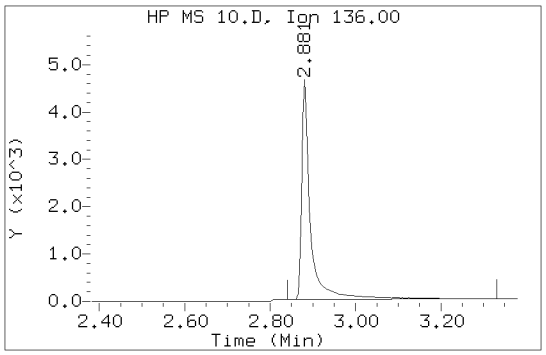
**BEFORE**

MASS
136
AREA
143
HEIGHT
45
29-Jun-2024
15:48
ALSHS
Server




**AFTER**

MASS
136
AREA
6548
HEIGHT
4637
01-Jul-2024
16:23



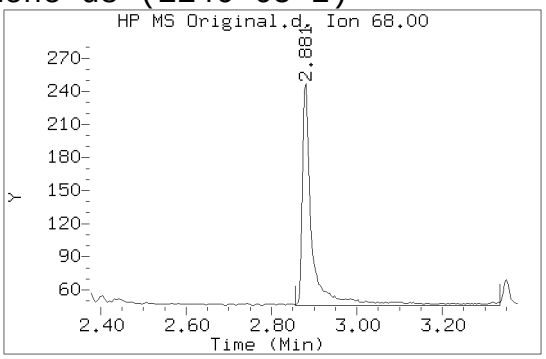
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\10.D
Inj Date : 29-JUN-2024 15:33
InstruID : SV6.i
LabSampID : LCSD-213834

## Naphthalene-d8 (1146-65-2)

Reason Code:

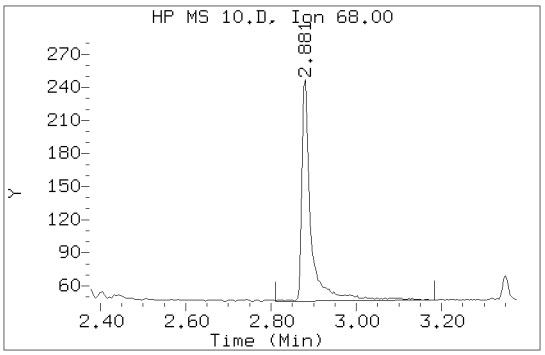
**BEFORE**

MASS
68
AREA
329
HEIGHT
201
29-Jun-2024
15:48
ALSHS
Server




**AFTER**

MASS
68
AREA
305
HEIGHT
200
01-Jul-2024
16:23

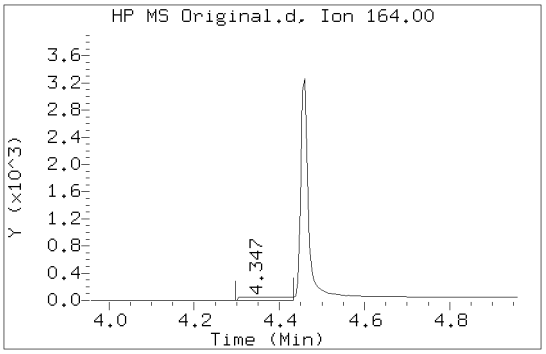



## Acenaphthene-d10 (15067-26-2)

Reason Code:

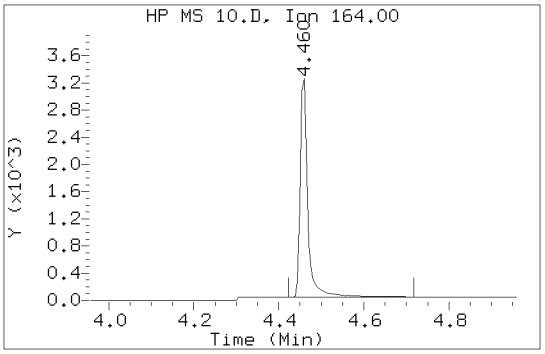
**BEFORE**

MASS
164
AREA
360
HEIGHT
47
29-Jun-2024
15:48
ALSHS
Server



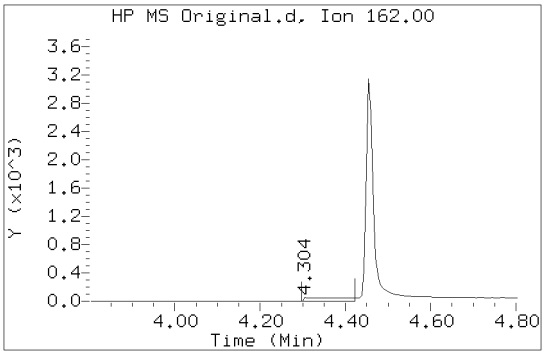

**AFTER**

MASS
164
AREA
3928
HEIGHT
3215
01-Jul-2024
16:23



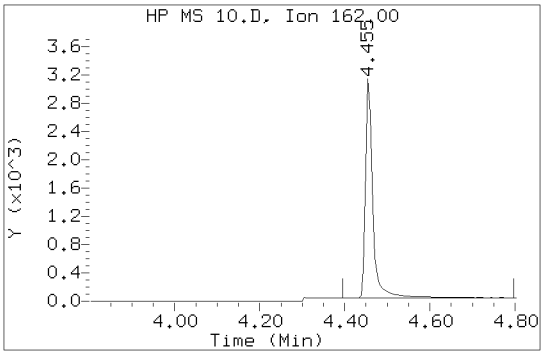

**BEFORE**

MASS
162
AREA
333
HEIGHT
52
29-Jun-2024
15:48
ALSHS
Server



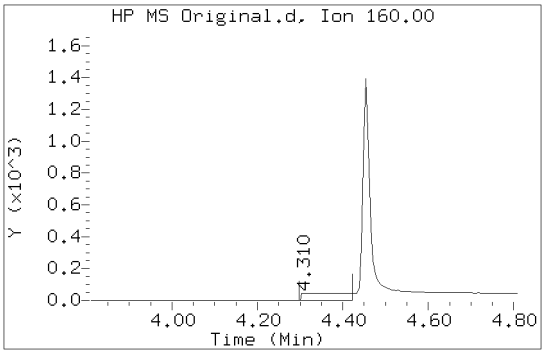

**AFTER**

MASS
162
AREA
3685
HEIGHT
3094
01-Jul-2024
16:23



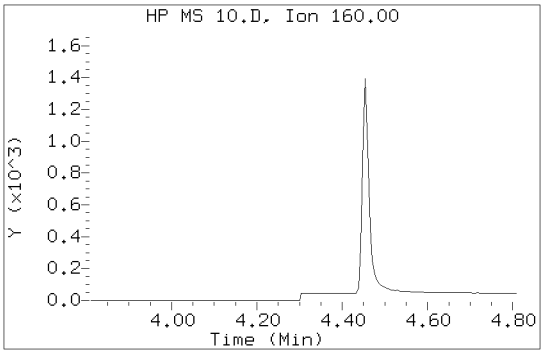

**BEFORE**

MASS
160
AREA
319
HEIGHT
45
29-Jun-2024
15:48
ALSHS
Server




**AFTER**

MASS
160
AREA
1563
HEIGHT
1348
01-Jul-2024
16:23

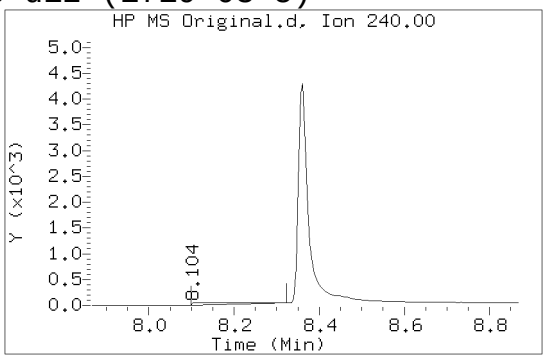


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\10.D
Inj Date : 29-JUN-2024 15:33
InstruID : SV6.i
LabSampID : LCSD-213834

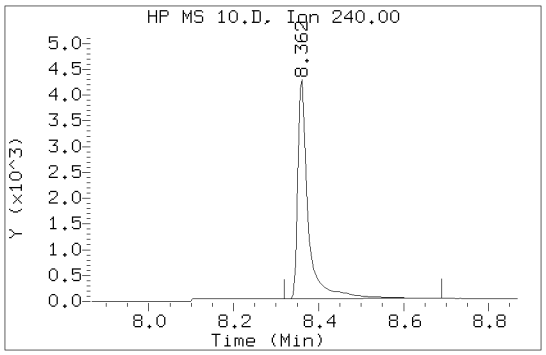
## Chrysene-d12 (1719-03-5)

Reason Code:

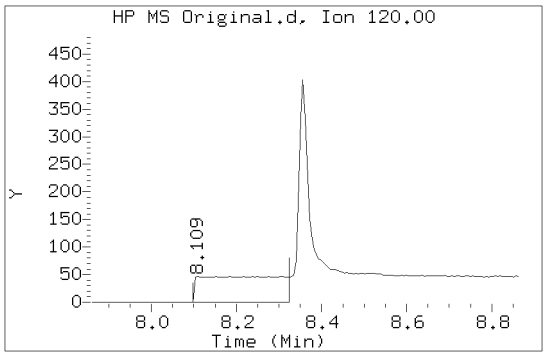
BEFORE
MASS
240
AREA
290
HEIGHT
43
29-Jun-2024
15:48
ALSHS
Server



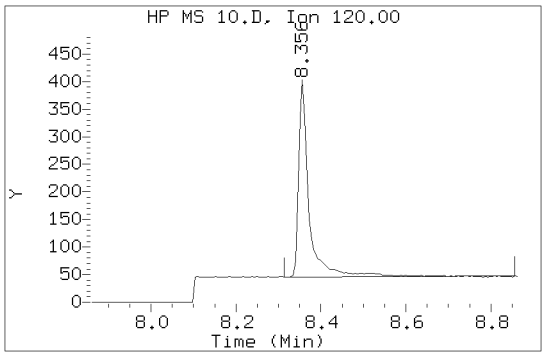

AFTER
MASS
240
AREA
7330
HEIGHT
4251
01-Jul-2024
16:23



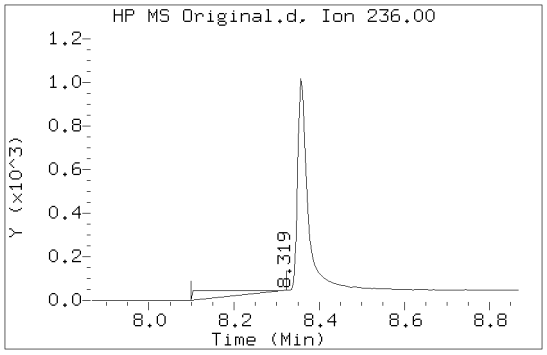

BEFORE
MASS
120
AREA
626
HEIGHT
47
29-Jun-2024
15:48
ALSHS
Server



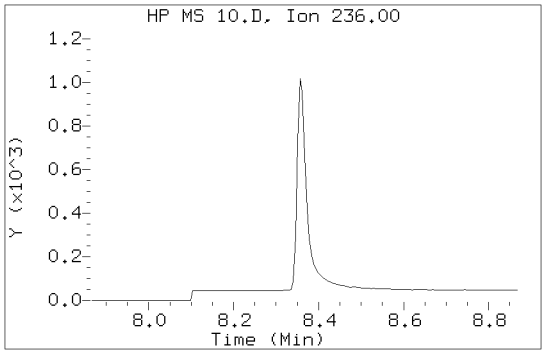

AFTER
MASS
120
AREA
591
HEIGHT
356
01-Jul-2024
16:23




BEFORE
MASS
236
AREA
288
HEIGHT
1
29-Jun-2024
15:48
ALSHS
Server



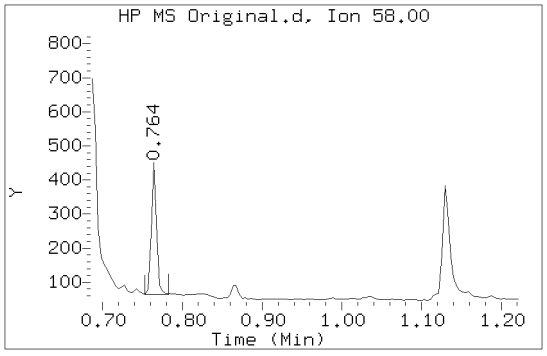

AFTER
MASS
236
AREA
1698
HEIGHT
971
01-Jul-2024
16:23



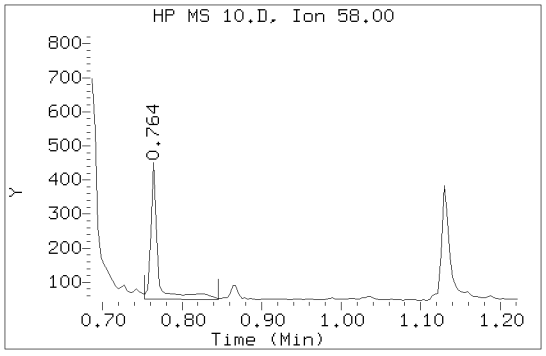

## 1,4-Dioxane ()

Reason Code:

BEFORE
MASS
58
AREA
176
HEIGHT
388
29-Jun-2024
15:48
ALSHS
Server




AFTER
MASS
58
AREA
251
HEIGHT
401
01-Jul-2024
16:23



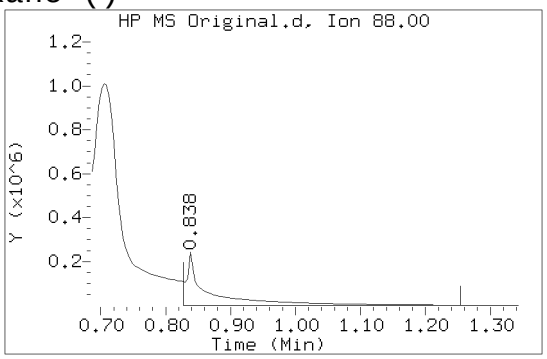
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\10.D
Inj Date : 29-JUN-2024 15:33
InstruID : SV6.i
LabSampID : LCSD-213834

## 1,4-Dioxane ()

Reason Code:

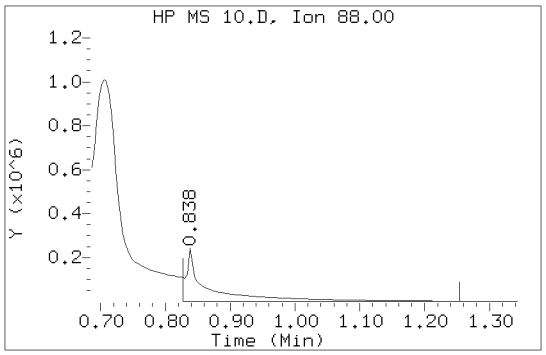
BEFORE

MASS
88
AREA
534655
HEIGHT
242773
29-Jun-2024
15:48
ALSHS
Server




AFTER

MASS
88
AREA
534655
HEIGHT
242773
01-Jul-2024
16:23

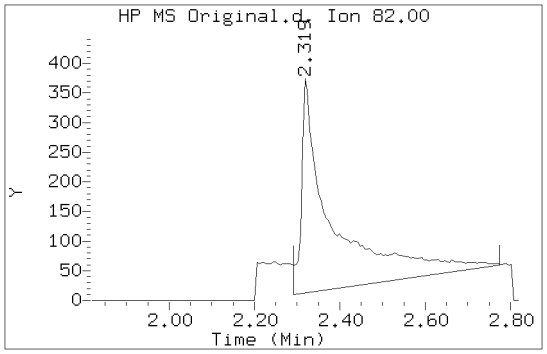



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

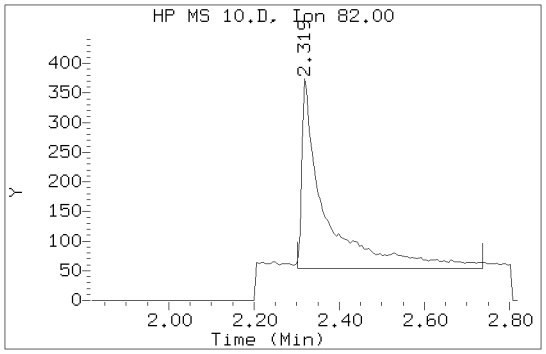
BEFORE

MASS
82
AREA
1813
HEIGHT
361
29-Jun-2024
15:48
ALSHS
Server



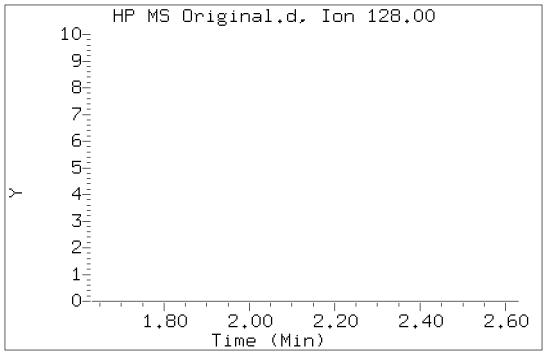

AFTER

MASS
82
AREA
1233
HEIGHT
320
01-Jul-2024
16:23



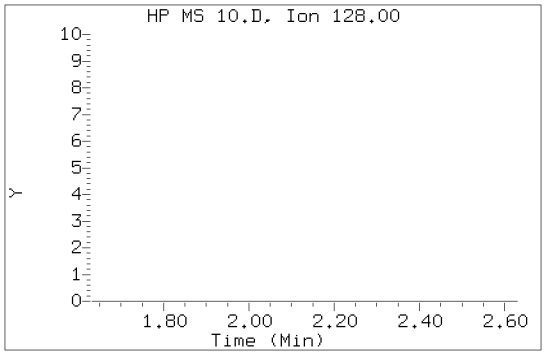

BEFORE

MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
15:48
ALSHS
Server



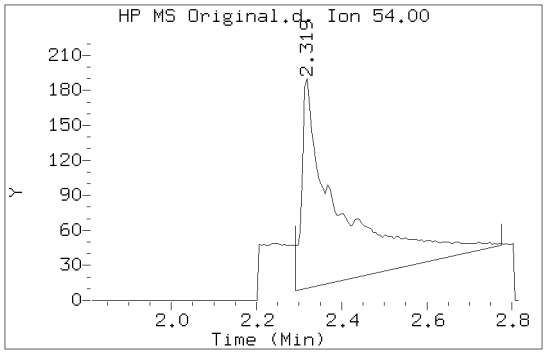

AFTER

MASS
128
AREA
0
HEIGHT
0
01-Jul-2024
16:23



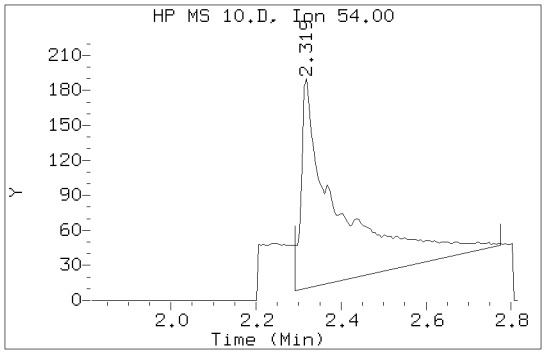

BEFORE

MASS
54
AREA
1111
HEIGHT
179
29-Jun-2024
15:48
ALSHS
Server




AFTER

MASS
54
AREA
1111
HEIGHT
179
01-Jul-2024
16:23



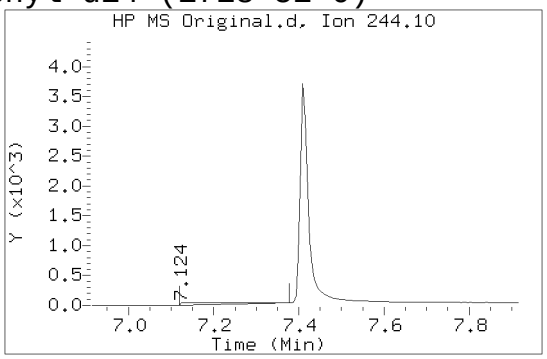
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\10.D
Inj Date : 29-JUN-2024 15:33
InstruID : SV6.i
LabSampID : LCSD-213834

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

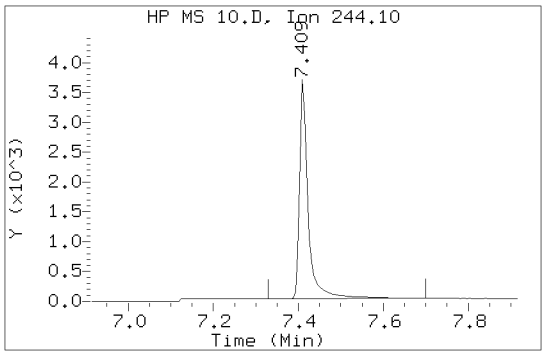
**BEFORE**

MASS
244.1
AREA
333
HEIGHT
43
29-Jun-2024
15:48
ALSHS
Server



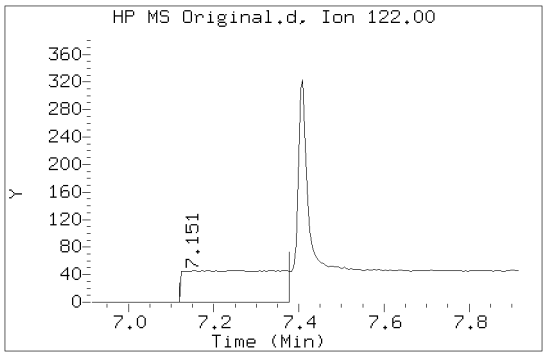

**AFTER**

MASS
244.1
AREA
5114
HEIGHT
3668
01-Jul-2024
16:23



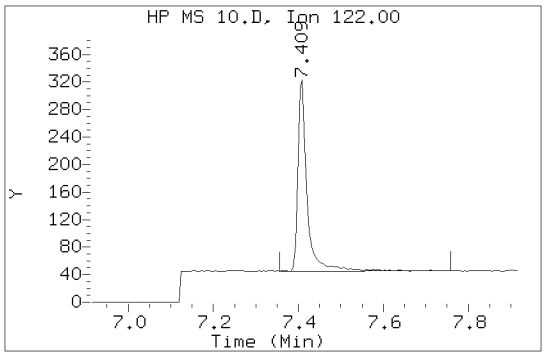

**BEFORE**

MASS
122
AREA
704
HEIGHT
46
29-Jun-2024
15:48
ALSHS
Server



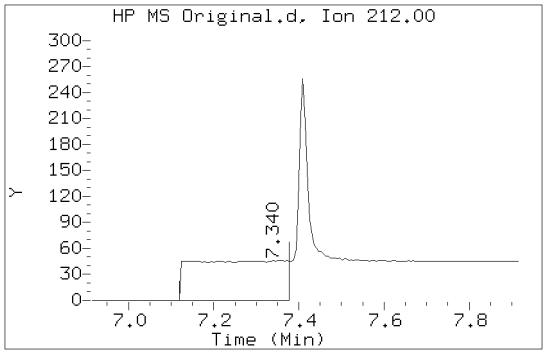

**AFTER**

MASS
122
AREA
413
HEIGHT
277
01-Jul-2024
16:23



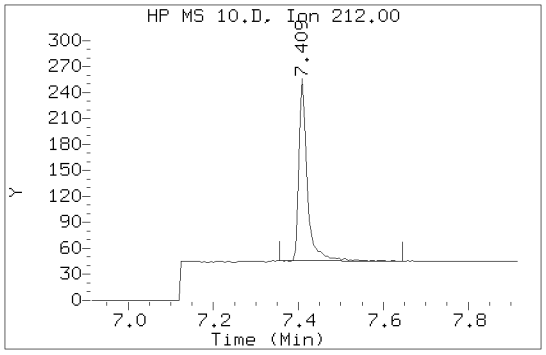

**BEFORE**

MASS
212
AREA
695
HEIGHT
46
29-Jun-2024
15:48
ALSHS
Server




**AFTER**

MASS
212
AREA
286
HEIGHT
210
01-Jul-2024
16:23

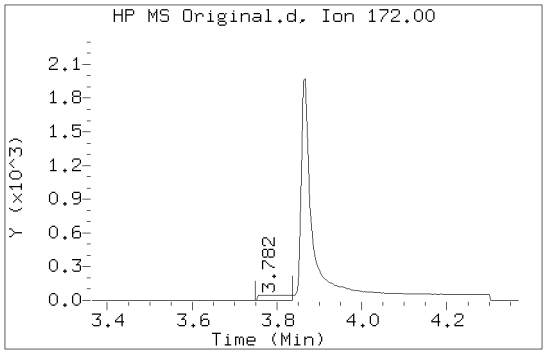



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

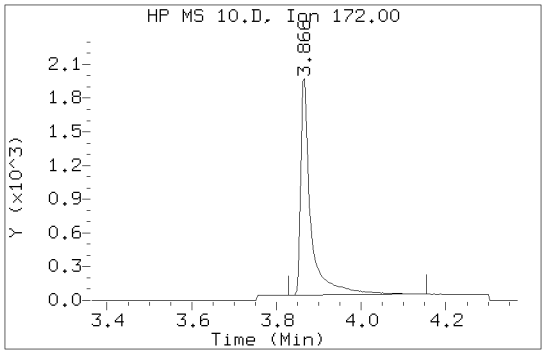
**BEFORE**

MASS
172
AREA
223
HEIGHT
45
29-Jun-2024
15:48
ALSHS
Server




**AFTER**

MASS
172
AREA
3218
HEIGHT
1927
01-Jul-2024
16:23



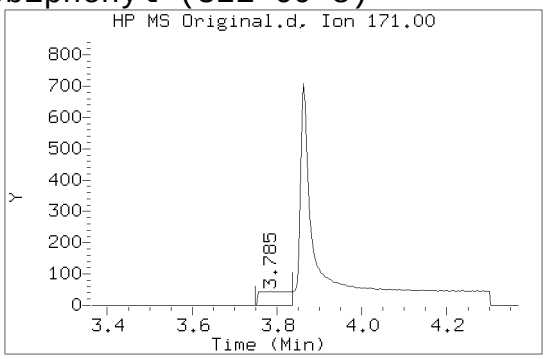
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Inj Date : 29-JUN-2024 15:33
InstruID : SV6.i
LabSampID : LCSD-213834

2-Fluorobiphenyl (321-60-8)

Reason Code:

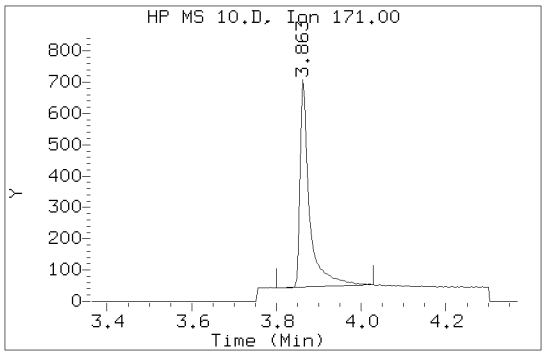
BEFORE

MASS
171
AREA
223
HEIGHT
45
29-Jun-2024
15:48
ALSHS
Server




AFTER

MASS
171
AREA
1007
HEIGHT
661
01-Jul-2024
16:23



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\17.D Page 1
Report Date: 02-Jul-2024 09:11

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\17.D
Lab Smp Id: HS24061218-01
Inj Date : 29-JUN-2024 17:35
Operator : LG Inst ID: SV6.i
Smp Info : HS24061218-01
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 01-Jul-2024 08:31 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 1.916 | 1.916 | (1.000) | 2496 | 0.10000 | (aQ) |
| * 45 Naphthalene-d8 | 136 | 2.881 | 2.880 | (1.000) | 5001 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.313 | 2.318 | (0.803) | 1079 | 0.07187 | 0.07187(M) |
| * 86 Acenaphthene-d10 | 164 | 4.460 | 4.459 | (1.000) | 3119 | 0.10000 | (QM) |
| $ 69 2-Fluorobiphenyl | 172 | 3.866 | 3.866 | (0.867) | 3241 | 0.06798 | 0.06798(M) |
| * 126 Phenanthrene-d10 | 188 | 5.850 | 5.855 | (1.000) | 6200 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 8.361 | 8.366 | (1.000) | 5438 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.415 | 7.414 | (0.887) | 8556 | 0.07723 | 0.07723(M) |
| * 198 Perylene-d12 | 264 | 9.856 | 9.861 | (1.000) | 6051 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 0.734 | 0.719 | (0.383) | 313 | 0.05855 | 0.05854(M) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\17.D



Date : 29-JUN-2024 17:35

Client ID:

Instrument: SV6.i

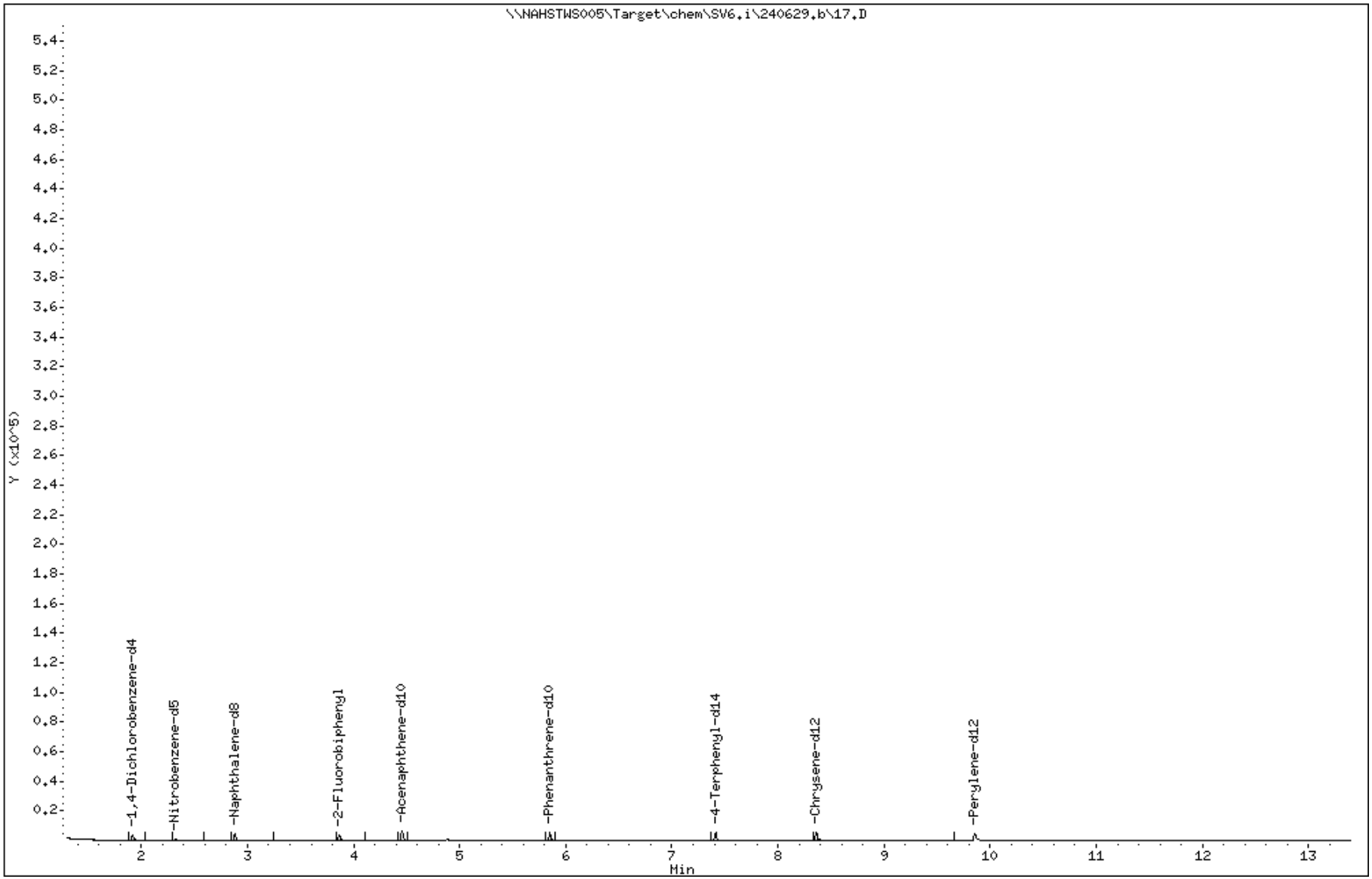
Sample Info: HS24061218-01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\17.D Page 2

Date : 29-JUN-2024 17:35

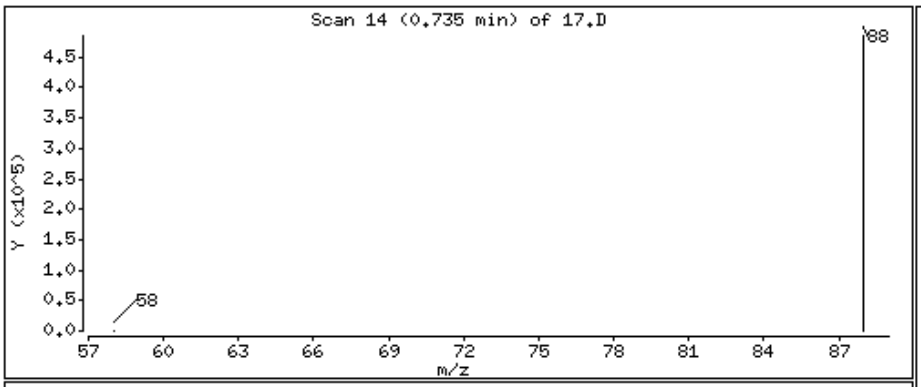
Client ID: Instrument: SV6.i

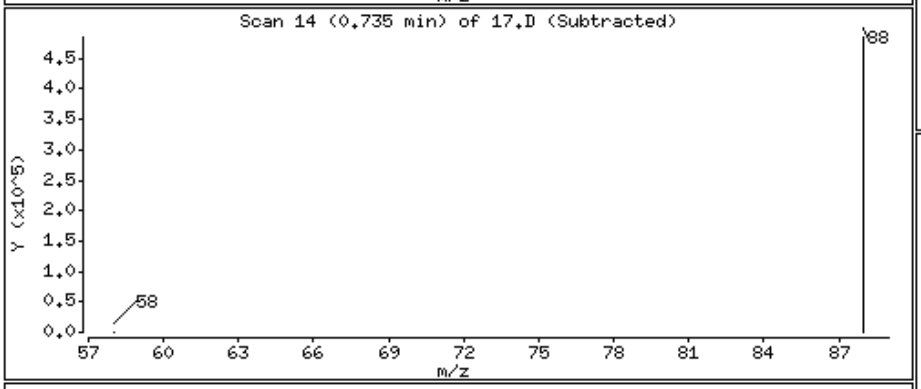
Sample Info: HS24061218-01

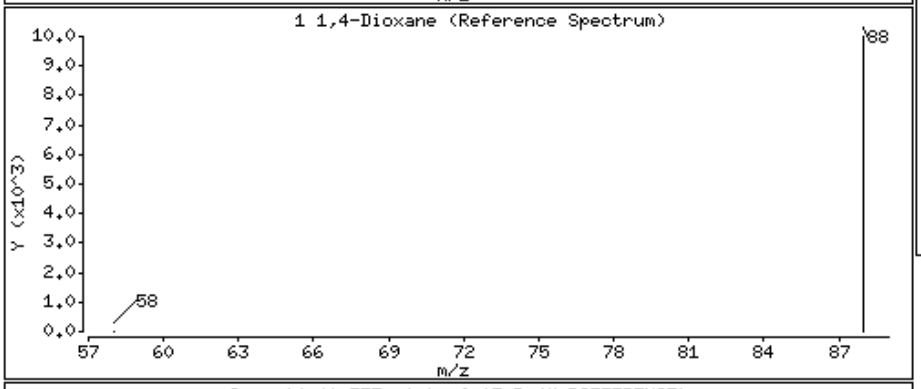
Purge Volume: 1000.0 Operator: LG

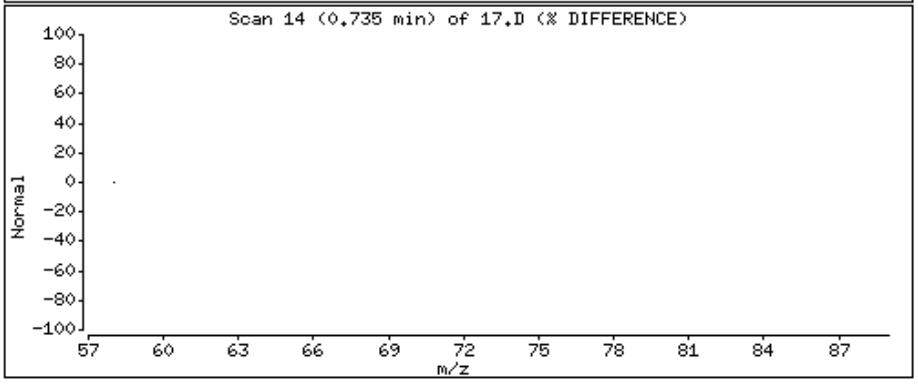
Column phase: RTX-5SIL MS Column diameter: 0.28

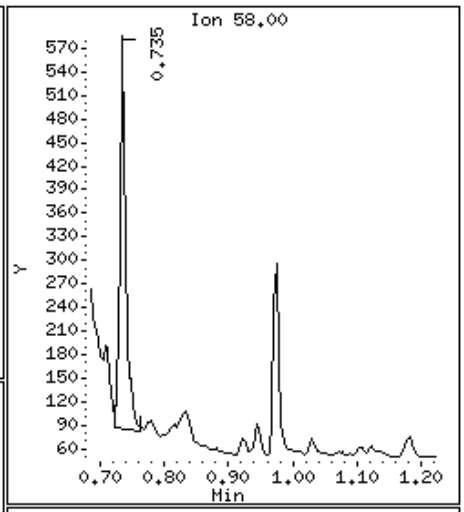
1 1,4-Dioxane Concentration: 0.05854 ug/L

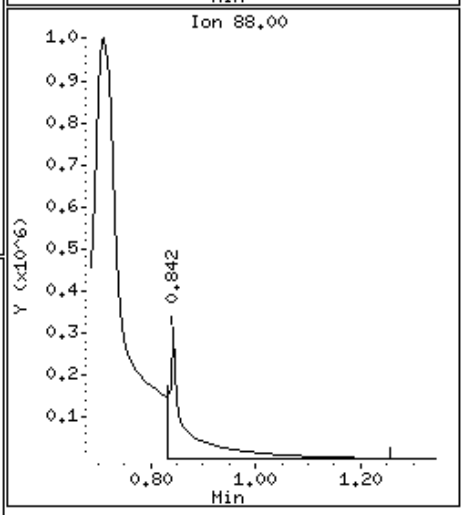


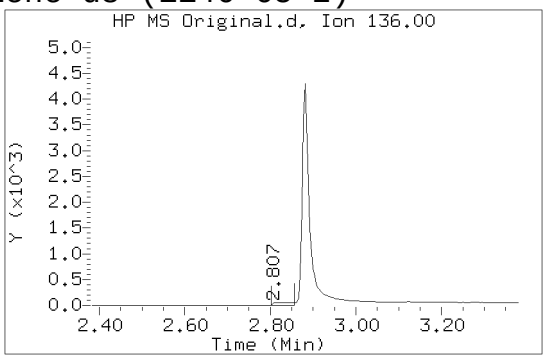



Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\17.D
Inj Date : 29-JUN-2024 17:35
InstruID : SV6.i
LabSampID : HS24061218-01

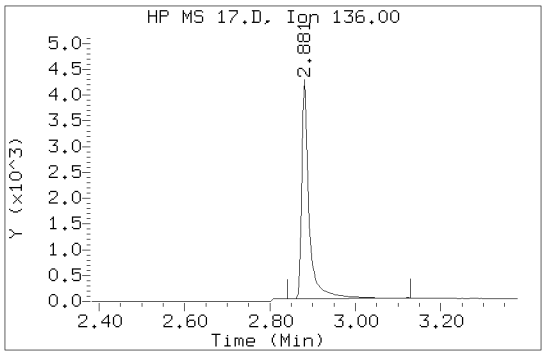
## Naphthalene-d8 (1146-65-2)

Reason Code: MBA

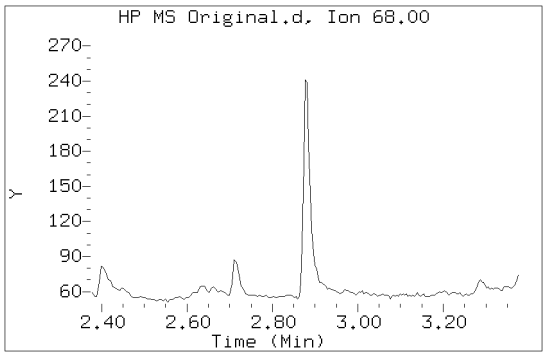
BEFORE
MASS
136
AREA
159
HEIGHT
54
29-Jun-2024
17:51
ALSHS
Server



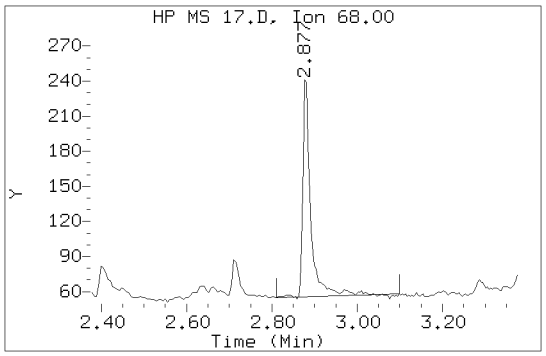

AFTER
MASS
136
AREA
5001
HEIGHT
4247
02-Jul-2024
09:11




BEFORE
MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
17:51
ALSHS
Server



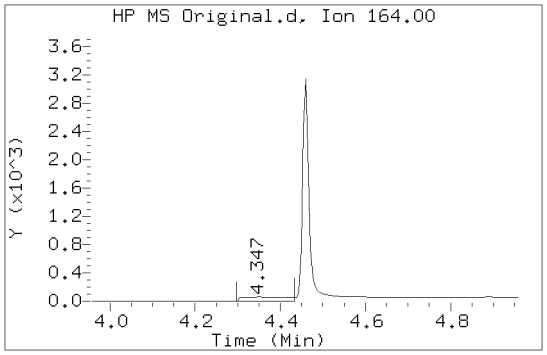

AFTER
MASS
68
AREA
232
HEIGHT
185
02-Jul-2024
09:11



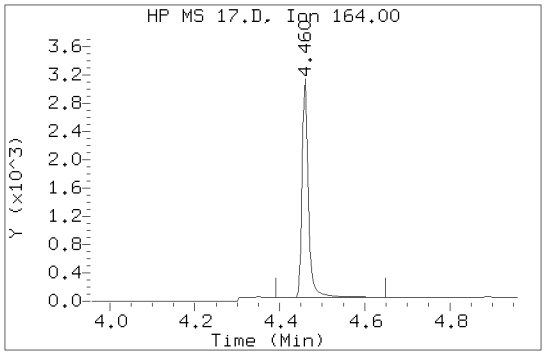

## Acenaphthene-d10 (15067-26-2)

Reason Code: MBA

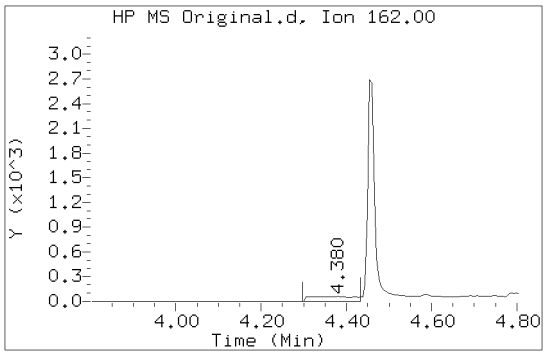
BEFORE
MASS
164
AREA
442
HEIGHT
64
29-Jun-2024
17:51
ALSHS
Server



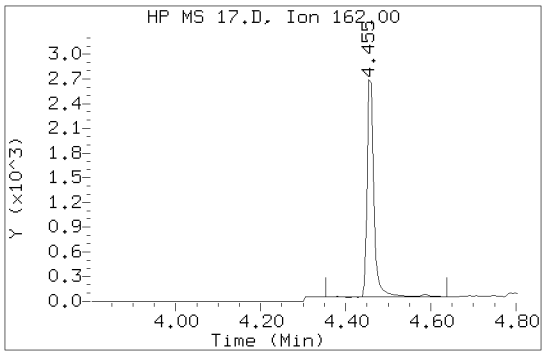

AFTER
MASS
164
AREA
3119
HEIGHT
3090
02-Jul-2024
09:11




BEFORE
MASS
162
AREA
414
HEIGHT
60
29-Jun-2024
17:51
ALSHS
Server




AFTER
MASS
162
AREA
2907
HEIGHT
2637
02-Jul-2024
09:11



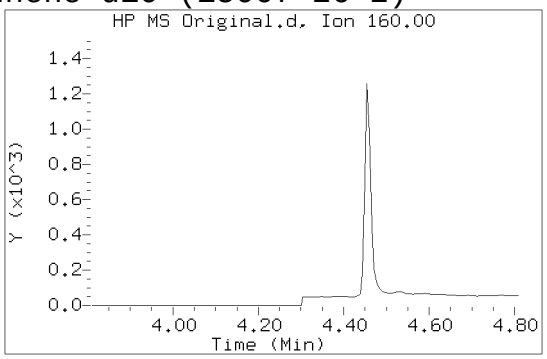
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Inj Date : 29-JUN-2024 17:35
InstruID : SV6.i
LabSampID : HS24061218-01

## Acenaphthene-d10 (15067-26-2)

Reason Code: MBA

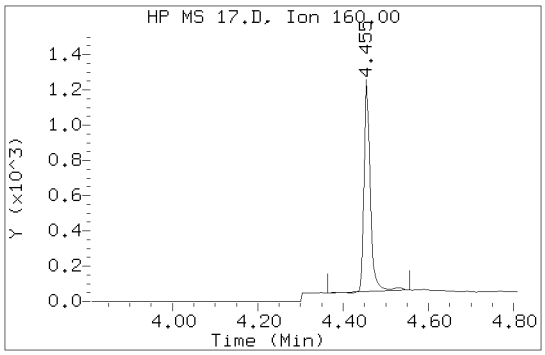
**BEFORE**

MASS
160
AREA
1311
HEIGHT
1204
29-Jun-2024
17:51
ALSHS
Server




**AFTER**

MASS
160
AREA
1200
HEIGHT
1202
02-Jul-2024
09:11

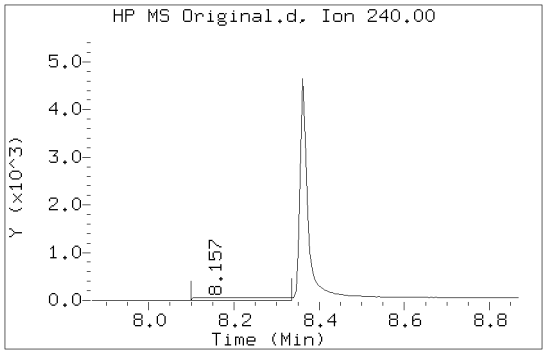



## Chrysene-d12 (1719-03-5)

Reason Code: MBA

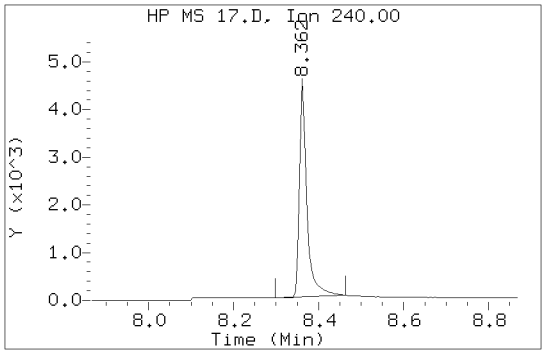
**BEFORE**

MASS
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AREA
712
HEIGHT
53
29-Jun-2024
17:51
ALSHS
Server



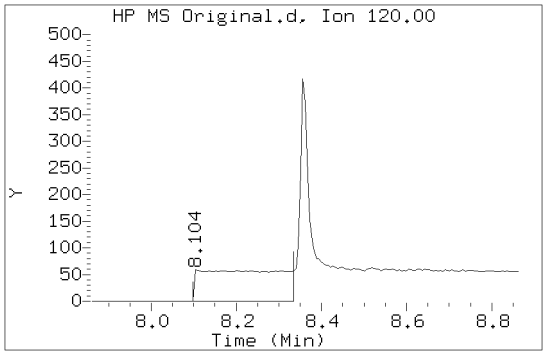

**AFTER**

MASS
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AREA
5438
HEIGHT
4574
02-Jul-2024
09:11



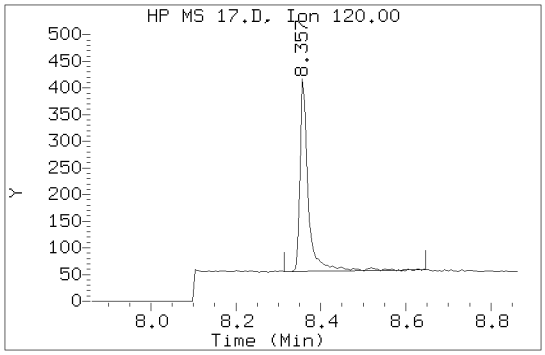

**BEFORE**

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AREA
797
HEIGHT
59
29-Jun-2024
17:51
ALSHS
Server



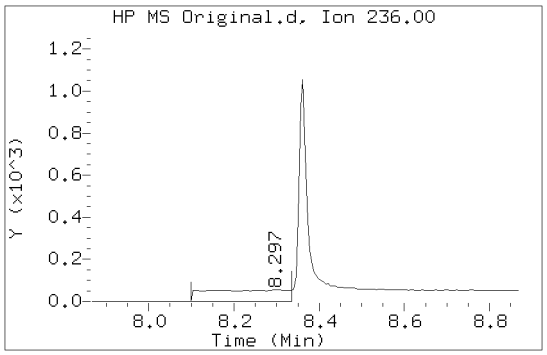

**AFTER**

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AREA
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HEIGHT
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02-Jul-2024
09:11



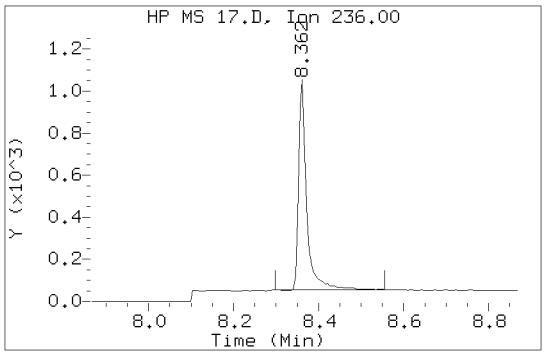

**BEFORE**

MASS
236
AREA
729
HEIGHT
56
29-Jun-2024
17:51
ALSHS
Server




**AFTER**

MASS
236
AREA
1291
HEIGHT
998
02-Jul-2024
09:11

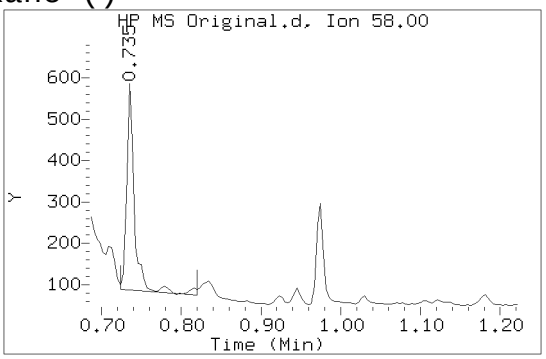


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\17.D
Inj Date : 29-JUN-2024 17:35
InstruID : SV6.i
LabSampID : HS24061218-01

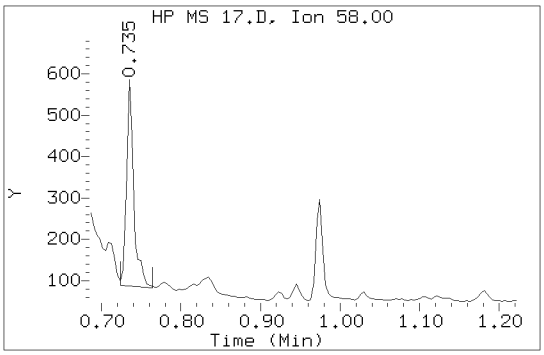
## 1,4-Dioxane ()

Reason Code:

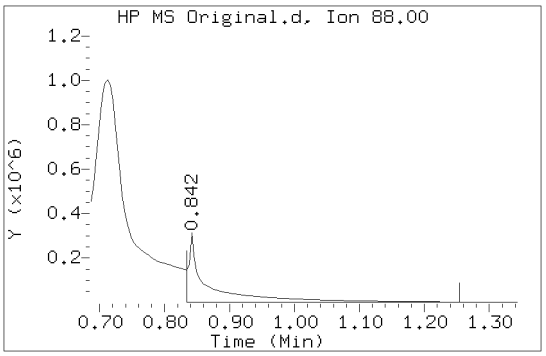
BEFORE
MASS
58
AREA
337
HEIGHT
499
29-Jun-2024
17:51
ALSHS
Server



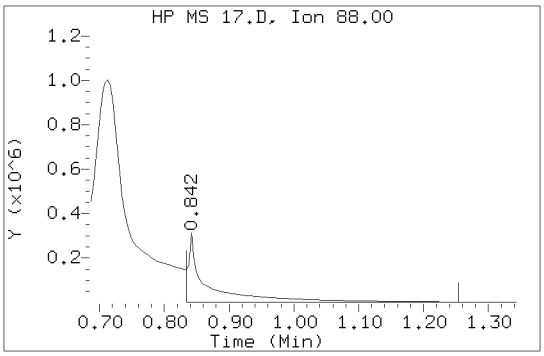

AFTER
MASS
58
AREA
313
HEIGHT
499
02-Jul-2024
09:11




BEFORE
MASS
88
AREA
613523
HEIGHT
311477
29-Jun-2024
17:51
ALSHS
Server



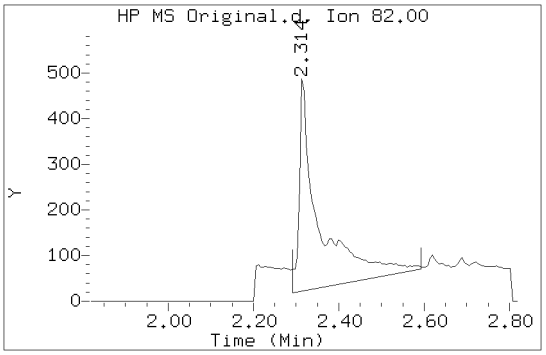

AFTER
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88
AREA
613523
HEIGHT
311477
02-Jul-2024
09:11



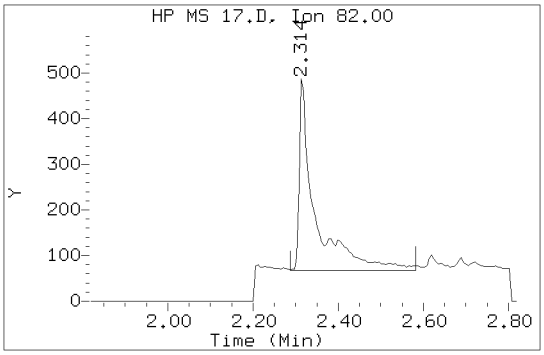

## Nitrobenzene-d5 (4165-60-0)

Reason Code: MBA

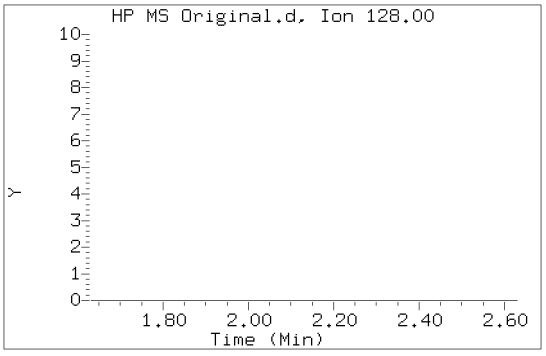
BEFORE
MASS
82
AREA
1516
HEIGHT
465
29-Jun-2024
17:51
ALSHS
Server



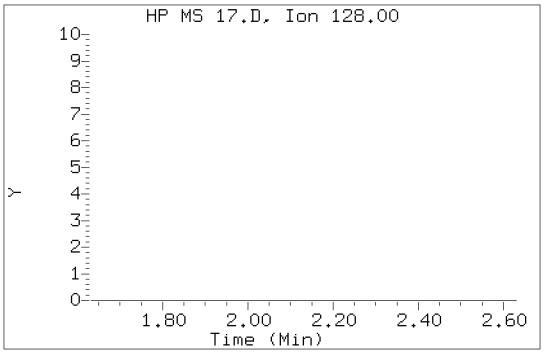

AFTER
MASS
82
AREA
1079
HEIGHT
419
02-Jul-2024
09:11




BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
17:51
ALSHS
Server




AFTER
MASS
128
AREA
0
HEIGHT
0
02-Jul-2024
09:11



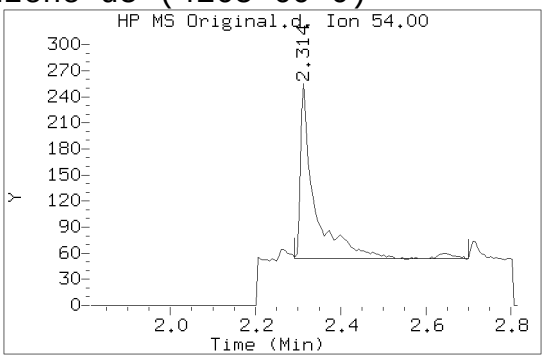
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\17.D
Inj Date : 29-JUN-2024 17:35
InstruID : SV6.i
LabSampID : HS24061218-01

## Nitrobenzene-d5 (4165-60-0)

Reason Code: MBA

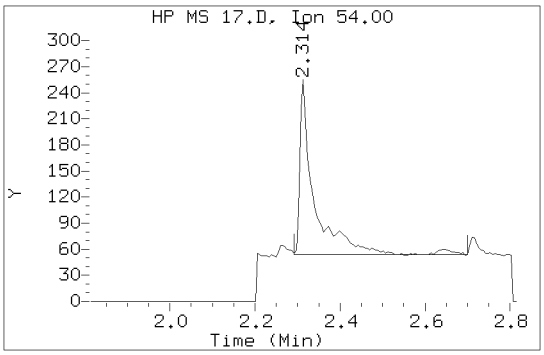
BEFORE

MASS
54
AREA
472
HEIGHT
201
29-Jun-2024
17:51
ALSHS
Server




AFTER

MASS
54
AREA
472
HEIGHT
201
02-Jul-2024
09:11

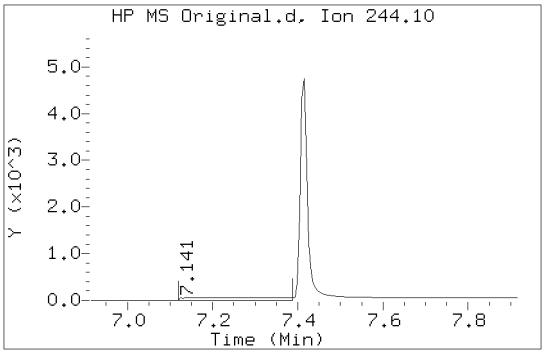



## 4-Terphenyl-d14 (1718-51-0)

Reason Code: MBA

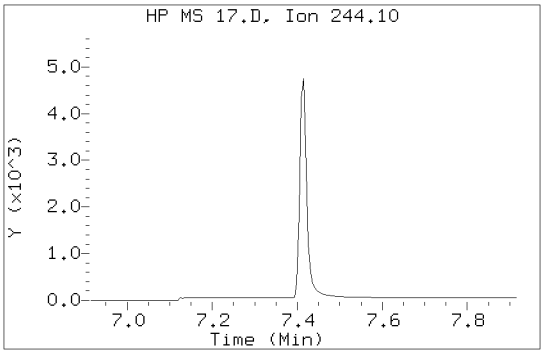
BEFORE

MASS
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AREA
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HEIGHT
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29-Jun-2024
17:51
ALSHS
Server



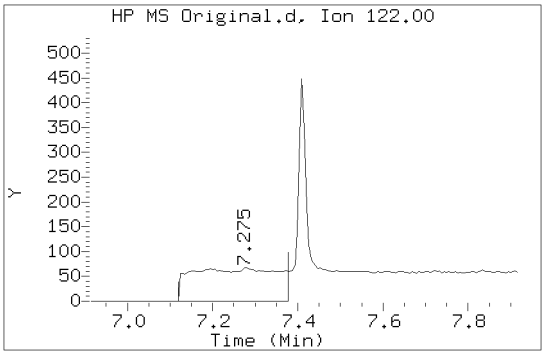

AFTER

MASS
244.1
AREA
8556
HEIGHT
4748
02-Jul-2024
09:11



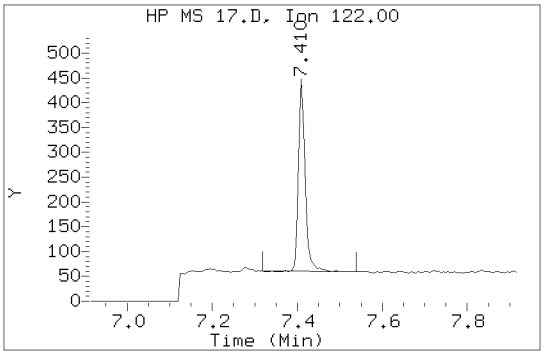

BEFORE

MASS
122
AREA
942
HEIGHT
67
29-Jun-2024
17:51
ALSHS
Server



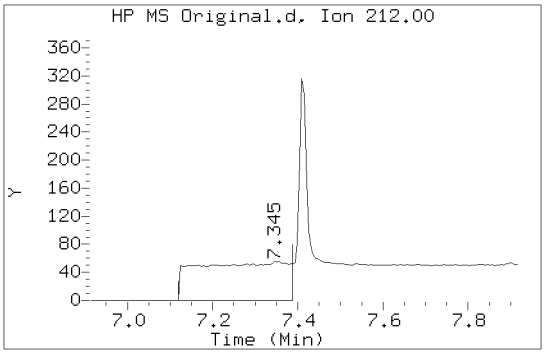

AFTER

MASS
122
AREA
412
HEIGHT
387
02-Jul-2024
09:11



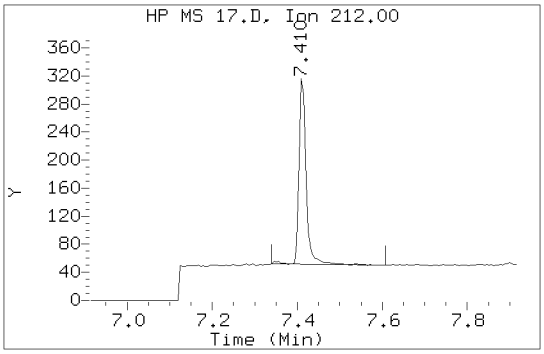

BEFORE

MASS
212
AREA
813
HEIGHT
56
29-Jun-2024
17:51
ALSHS
Server




AFTER

MASS
212
AREA
307
HEIGHT
264
02-Jul-2024
09:11



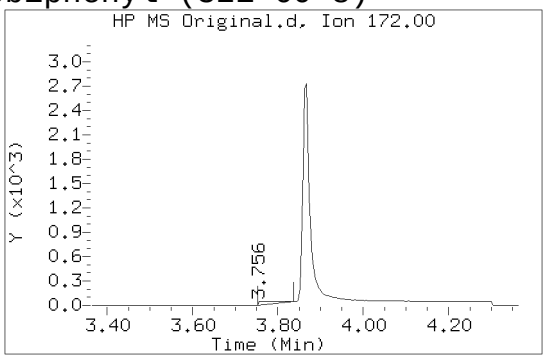
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Inj Date : 29-JUN-2024 17:35
InstruID : SV6.i
LabSampID : HS24061218-01

## 2-Fluorobiphenyl (321-60-8)

Reason Code: MBA

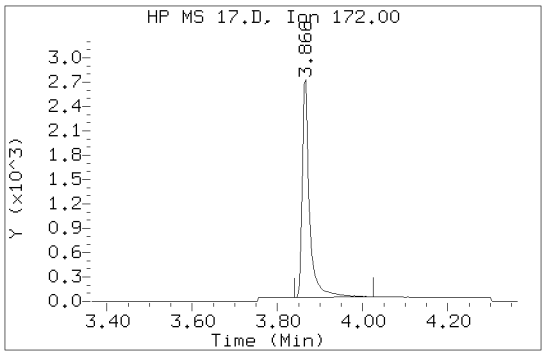
**BEFORE**

MASS
172
AREA
108
HEIGHT
43
29-Jun-2024
17:51
ALSHS
Server



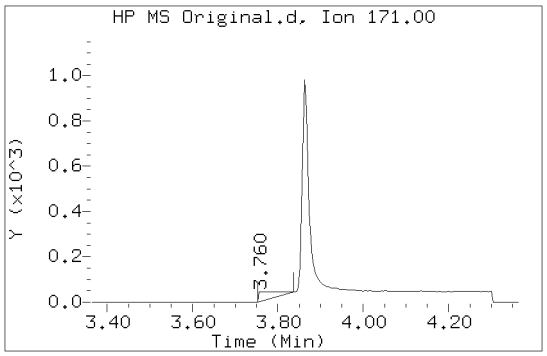

**AFTER**

MASS
172
AREA
3241
HEIGHT
2684
02-Jul-2024
09:11



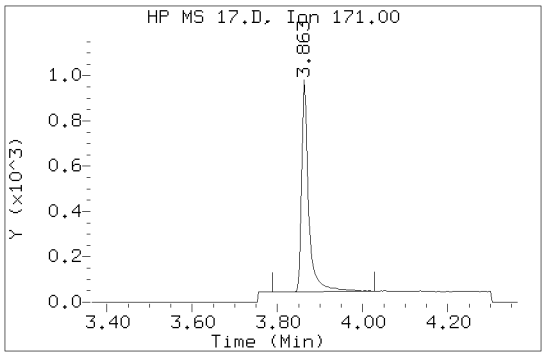

**BEFORE**

MASS
171
AREA
108
HEIGHT
42
29-Jun-2024
17:51
ALSHS
Server




**AFTER**

MASS
171
AREA
1073
HEIGHT
934
02-Jul-2024
09:11



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\18.D Page 1
Report Date: 26-Jul-2024 11:51

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\18.D
Lab Smp Id: HS24061218-02
Inj Date : 29-JUN-2024 17:52
Operator : LG Inst ID: SV6.i
Smp Info : HS24061218-02
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 26-Jul-2024 11:51 r.patel Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 1.916 | 1.916 | (1.000) | 2259 | 0.10000 | (aQ) |
| * 45 Naphthalene-d8 | 136 | 2.880 | 2.880 | (1.000) | 4325 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.313 | 2.318 | (0.803) | 802 | 0.06177 | 0.06177(M) |
| * 86 Acenaphthene-d10 | 164 | 4.459 | 4.459 | (1.000) | 3140 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 3.866 | 3.866 | (0.867) | 2510 | 0.05229 | 0.05229(M) |
| * 126 Phenanthrene-d10 | 188 | 5.849 | 5.855 | (1.000) | 5180 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 8.361 | 8.366 | (1.000) | 4636 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.414 | 7.414 | (0.887) | 7195 | 0.07618 | 0.07618(M) |
| * 198 Perylene-d12 | 264 | 9.856 | 9.861 | (1.000) | 4856 | 0.10000 | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\18.D



Date : 29-JUN-2024 17:52

Client ID:

Instrument: SV6.i

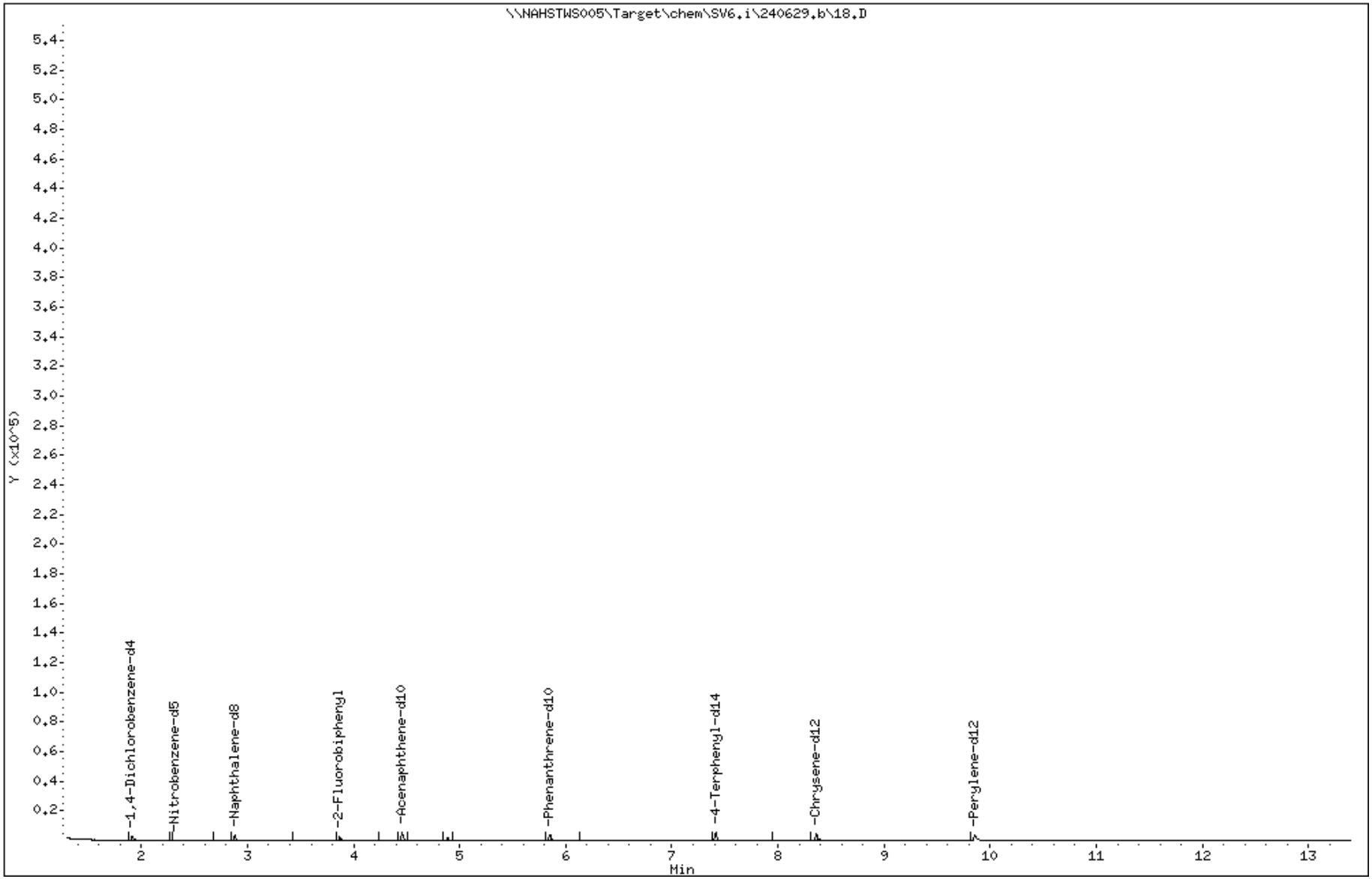
Sample Info: HS24061218-02

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

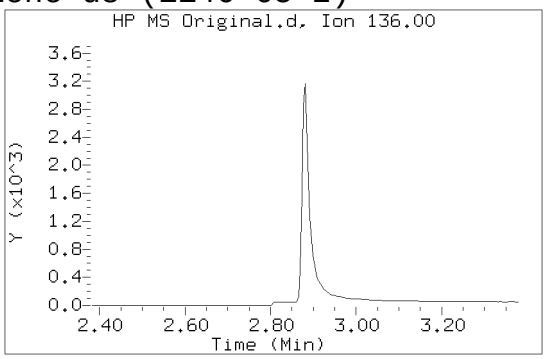


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\18.D
Inj Date : 29-JUN-2024 17:52
InstruID : SV6.i
LabSampID : HS24061218-02

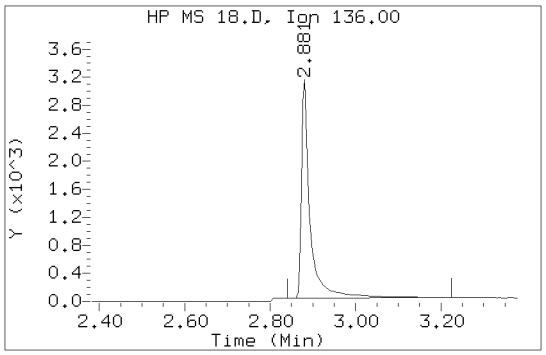
## Naphthalene-d8 (1146-65-2)

Reason Code: MBA

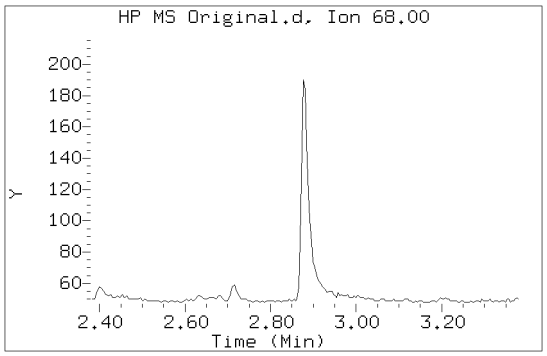
BEFORE
MASS
136
AREA
0
HEIGHT
0
29-Jun-2024
18:07
ALSHS
Server



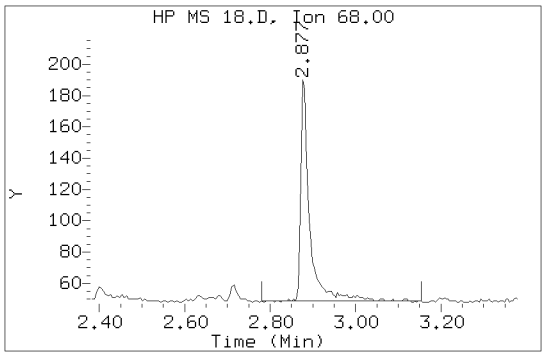

AFTER
MASS
136
AREA
4325
HEIGHT
3118
26-Jul-2024
11:51
ALSHS
S




BEFORE
MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
18:07
ALSHS
Server



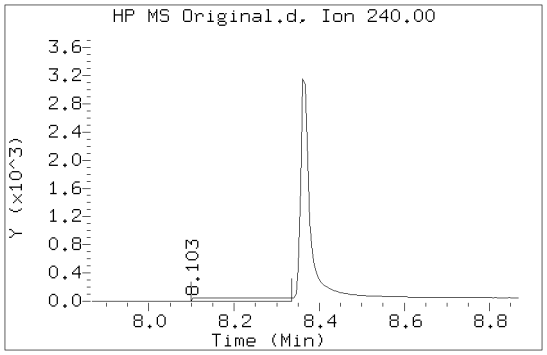

AFTER
MASS
68
AREA
202
HEIGHT
141
26-Jul-2024
11:51
ALSHS
S



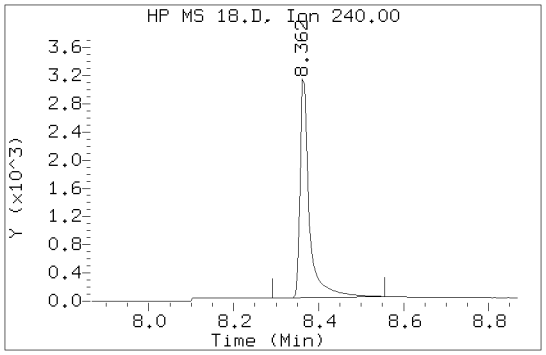

## Chrysene-d12 (1719-03-5)

Reason Code:

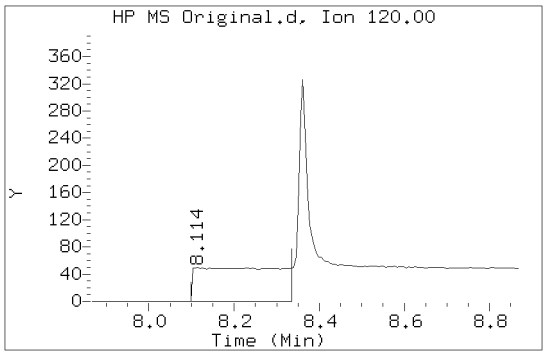
BEFORE
MASS
240
AREA
650
HEIGHT
47
29-Jun-2024
18:07
ALSHS
Server



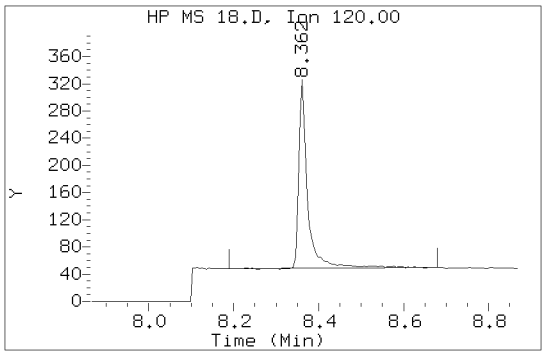

AFTER
MASS
240
AREA
4636
HEIGHT
3101
26-Jul-2024
11:51
ALSHS
S




BEFORE
MASS
120
AREA
683
HEIGHT
50
29-Jun-2024
18:07
ALSHS
Server




AFTER
MASS
120
AREA
393
HEIGHT
277
26-Jul-2024
11:51
ALSHS
S



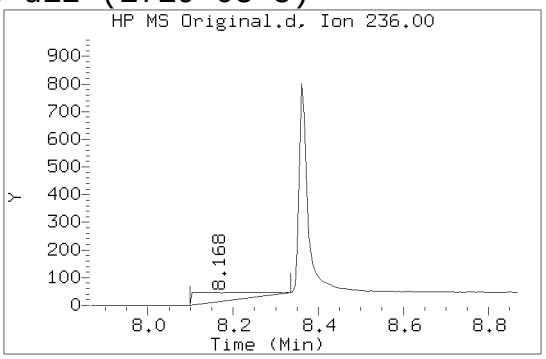
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\18.D
Inj Date : 29-JUN-2024 17:52
InstruID : SV6.i
LabSampID : HS24061218-02

## Chrysene-d12 (1719-03-5)

Reason Code:

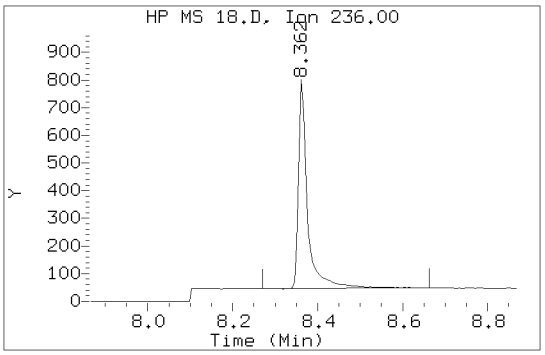
BEFORE

MASS
236
AREA
312
HEIGHT
33
29-Jun-2024
18:07
ALSHS
Server




AFTER

MASS
236
AREA
1116
HEIGHT
754
26-Jul-2024
11:51
ALSHS
S

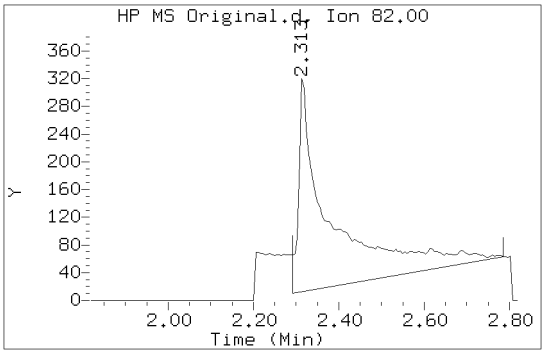



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

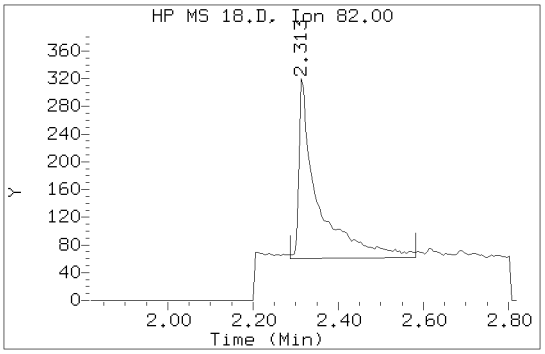
BEFORE

MASS
82
AREA
1612
HEIGHT
307
29-Jun-2024
18:07
ALSHS
Server



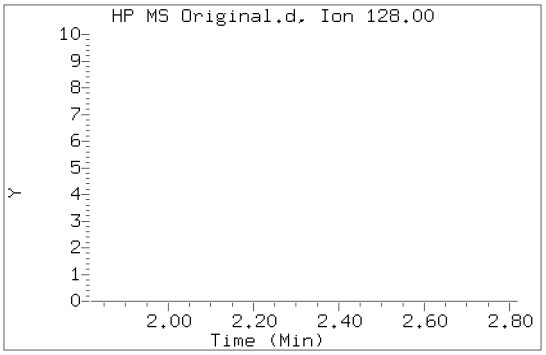

AFTER

MASS
82
AREA
802
HEIGHT
259
26-Jul-2024
11:51
ALSHS
S



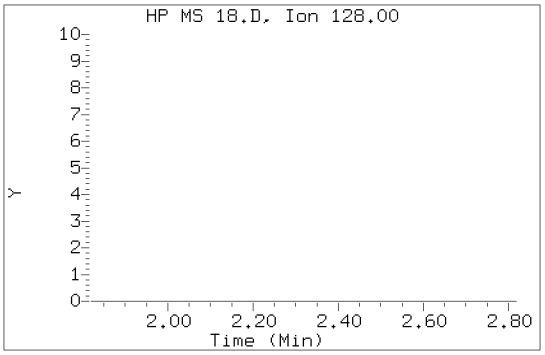

BEFORE

MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
18:07
ALSHS
Server



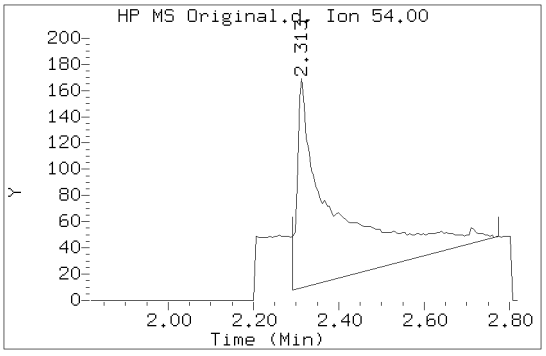

AFTER

MASS
128
AREA
0
HEIGHT
0
26-Jul-2024
11:51
ALSHS
S



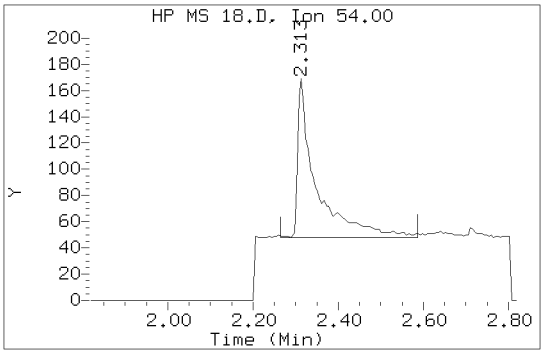

BEFORE

MASS
54
AREA
965
HEIGHT
159
29-Jun-2024
18:07
ALSHS
Server




AFTER

MASS
54
AREA
364
HEIGHT
121
26-Jul-2024
11:51
ALSHS
S



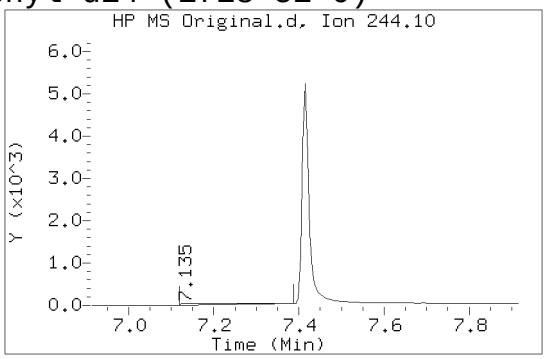
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\18.D
Inj Date : 29-JUN-2024 17:52
InstruID : SV6.i
LabSampID : HS24061218-02

## 4-Terphenyl-d14 (1718-51-0)

Reason Code: MBA

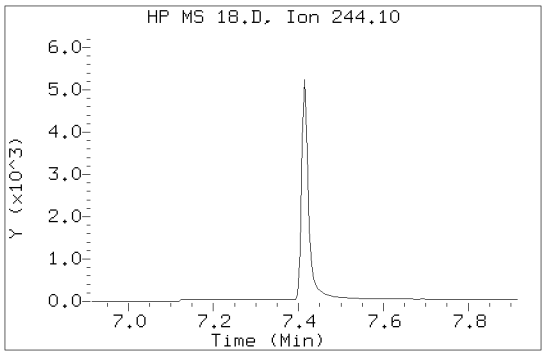
BEFORE

MASS
244.1
AREA
351
HEIGHT
43
29-Jun-2024
18:07
ALSHS
Server



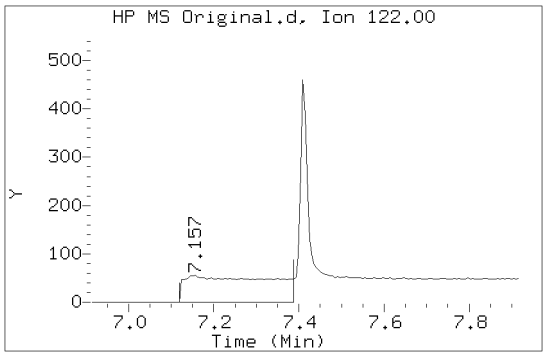

AFTER

MASS
244.1
AREA
7195
HEIGHT
5213
26-Jul-2024
11:51
ALSHS
S



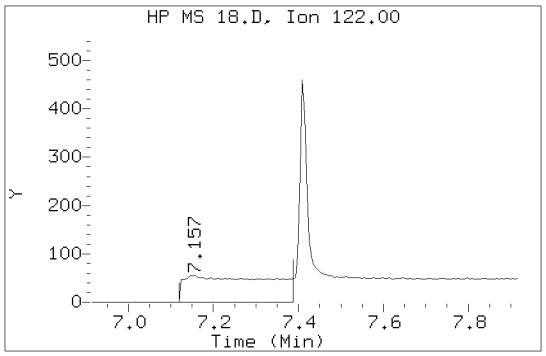

BEFORE

MASS
122
AREA
785
HEIGHT
56
29-Jun-2024
18:07
ALSHS
Server



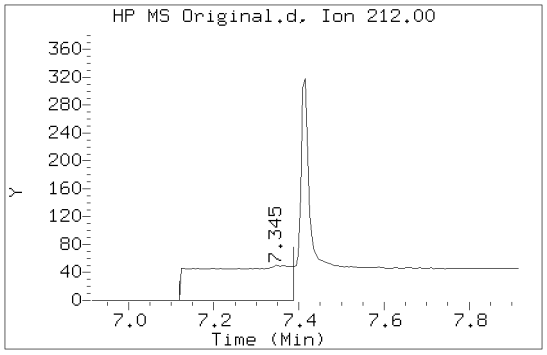

AFTER

MASS
122
AREA
785
HEIGHT
56
26-Jul-2024
11:51
ALSHS
S



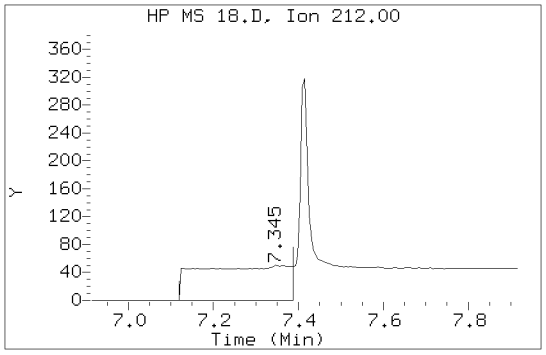

BEFORE

MASS
212
AREA
745
HEIGHT
51
29-Jun-2024
18:07
ALSHS
Server




AFTER

MASS
212
AREA
745
HEIGHT
51
26-Jul-2024
11:51
ALSHS
S

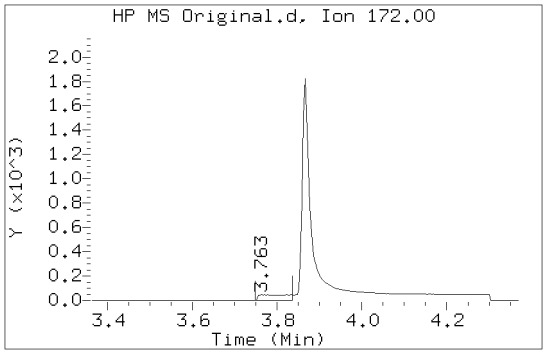



## 2-Fluorobiphenyl (321-60-8)

Reason Code: MBA

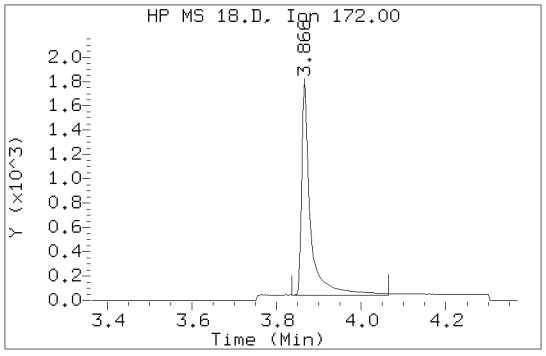
BEFORE

MASS
172
AREA
224
HEIGHT
45
29-Jun-2024
18:07
ALSHS
Server




AFTER

MASS
172
AREA
2510
HEIGHT
1781
26-Jul-2024
11:51
ALSHS
S



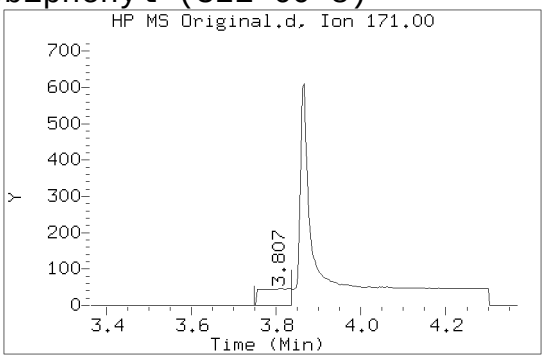
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\18.D
Inj Date : 29-JUN-2024 17:52
InstruID : SV6.i
LabSampID : HS24061218-02

## 2-Fluorobiphenyl (321-60-8)

Reason Code: MBA

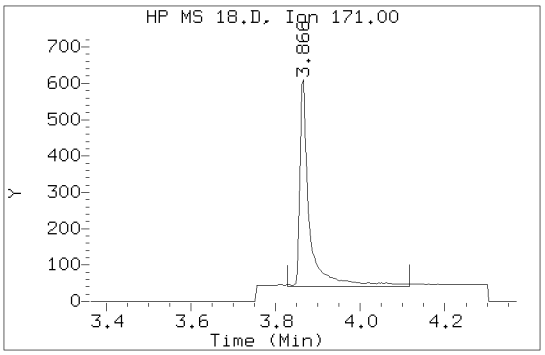
### BEFORE

MASS
171
AREA
224
HEIGHT
45
29-Jun-2024
18:07
ALSHS
Server




### AFTER

MASS
171
AREA
915
HEIGHT
570
26-Jul-2024
11:51
ALSHS
S



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\19.D Page 1
Report Date: 26-Jul-2024 11:51

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\19.D
Lab Smp Id: HS24061218-03
Inj Date : 29-JUN-2024 18:10
Operator : LG Inst ID: SV6.i
Smp Info : HS24061218-03
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 26-Jul-2024 11:51 r.patel Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 1.921 | 1.916 | (1.000) | 2902 | 0.10000 | (aQ) |
| * 45 Naphthalene-d8 | 136 | 2.880 | 2.880 | (1.000) | 6059 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.318 | 2.318 | (0.805) | 1147 | 0.06306 | 0.06306(M) |
| * 86 Acenaphthene-d10 | 164 | 4.459 | 4.459 | (1.000) | 4425 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 3.866 | 3.866 | (0.867) | 3988 | 0.05896 | 0.05896(M) |
| * 126 Phenanthrene-d10 | 188 | 5.849 | 5.855 | (1.000) | 7696 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 8.361 | 8.366 | (1.000) | 7398 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.414 | 7.414 | (0.887) | 9602 | 0.06371 | 0.06371(M) |
| * 198 Perylene-d12 | 264 | 9.856 | 9.861 | (1.000) | 7655 | 0.10000 | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\19.D



Date : 29-JUN-2024 18:10

Client ID:

Instrument: SV6.i

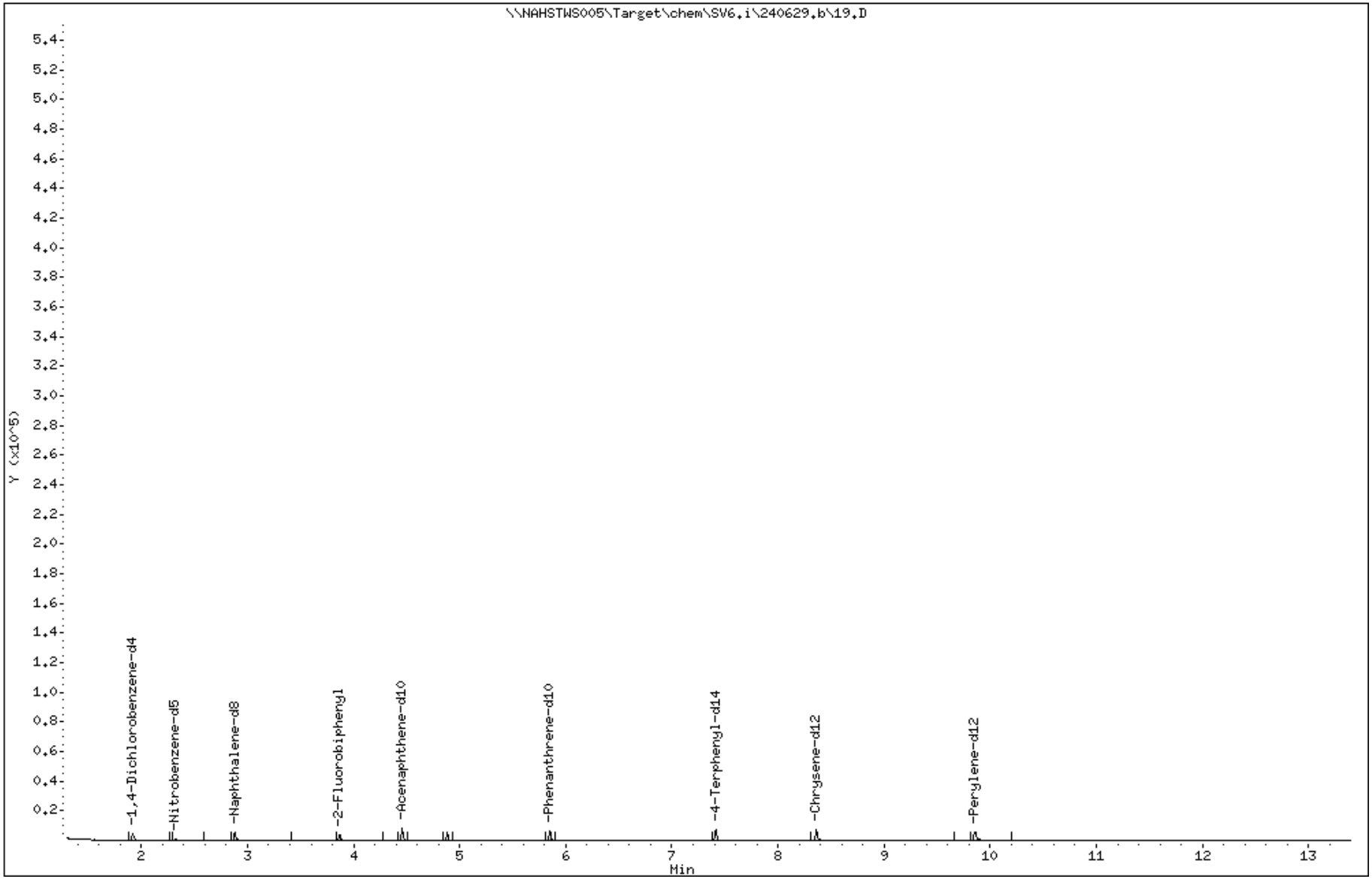
Sample Info: HS24061218-03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



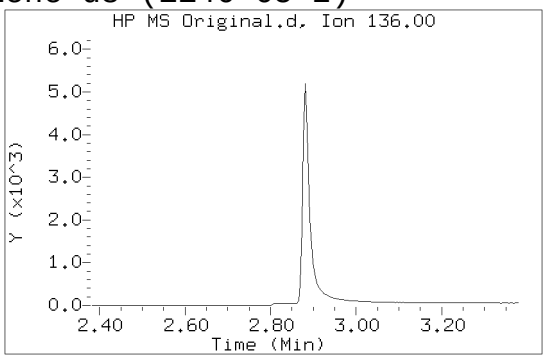
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\19.D
Inj Date : 29-JUN-2024 18:10
InstruID : SV6.i
LabSampID : HS24061218-03

## Naphthalene-d8 (1146-65-2)

Reason Code:

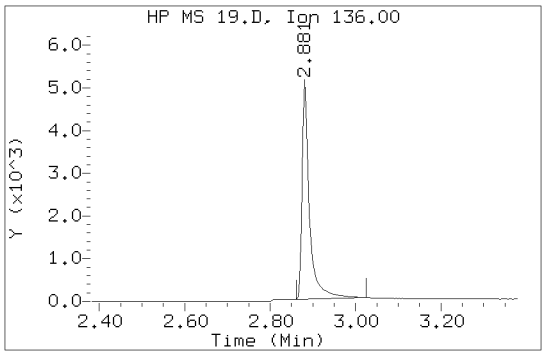
BEFORE

MASS
136
AREA
0
HEIGHT
0
29-Jun-2024
18:25
ALSHS
Server



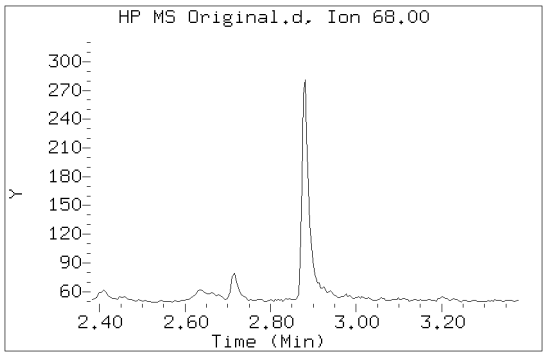

AFTER

MASS
136
AREA
6059
HEIGHT
5138
26-Jul-2024
11:51
ALSHS
S



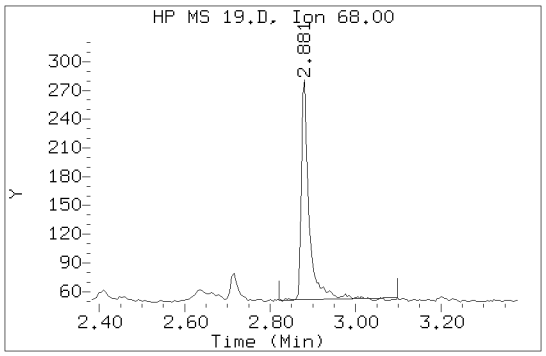

BEFORE

MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
18:25
ALSHS
Server




AFTER

MASS
68
AREA
277
HEIGHT
229
26-Jul-2024
11:51
ALSHS
S

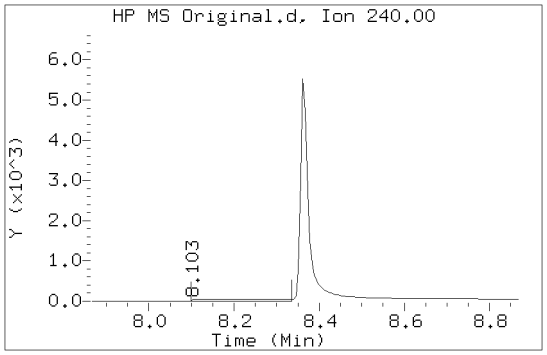



## Chrysene-d12 (1719-03-5)

Reason Code:

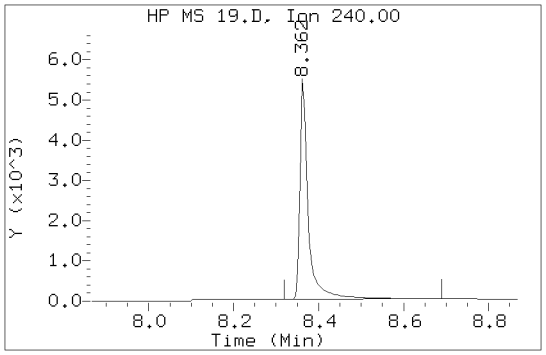
BEFORE

MASS
240
AREA
671
HEIGHT
48
29-Jun-2024
18:25
ALSHS
Server



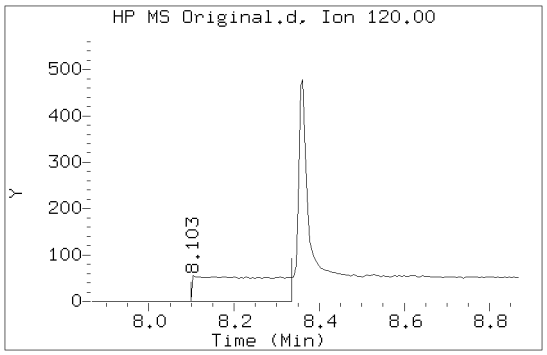

AFTER

MASS
240
AREA
7398
HEIGHT
5475
26-Jul-2024
11:51
ALSHS
S



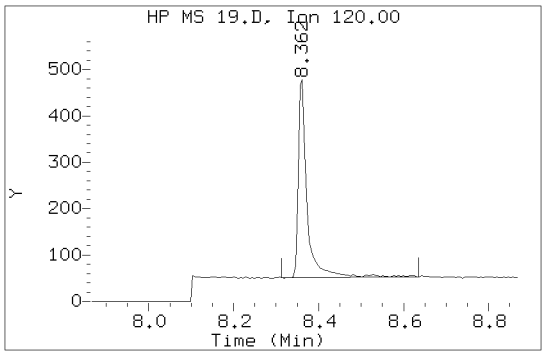

BEFORE

MASS
120
AREA
726
HEIGHT
55
29-Jun-2024
18:25
ALSHS
Server




AFTER

MASS
120
AREA
607
HEIGHT
426
26-Jul-2024
11:51
ALSHS
S



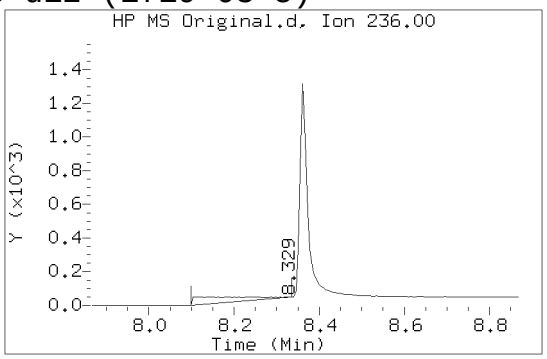
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\19.D
Inj Date : 29-JUN-2024 18:10
InstruID : SV6.i
LabSampID : HS24061218-03

## Chrysene-d12 (1719-03-5)

Reason Code:

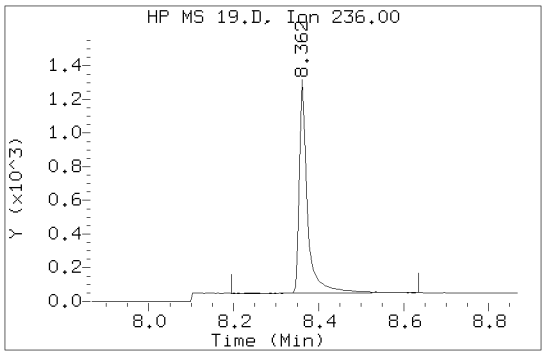
BEFORE

MASS
236
AREA
315
HEIGHT
1
29-Jun-2024
18:25
ALSHS
Server




AFTER

MASS
236
AREA
1684
HEIGHT
1268
26-Jul-2024
11:51
ALSHS
S

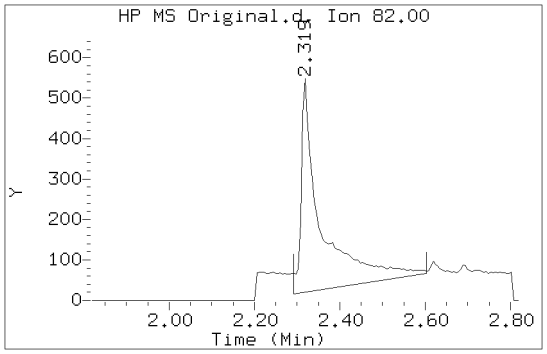



## Nitrobenzene-d5 (4165-60-0)

Reason Code: MBA

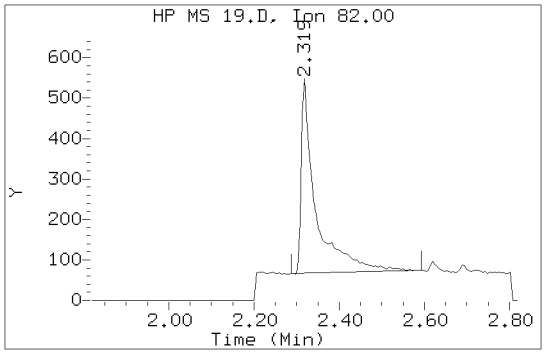
BEFORE

MASS
82
AREA
1701
HEIGHT
527
29-Jun-2024
18:25
ALSHS
Server



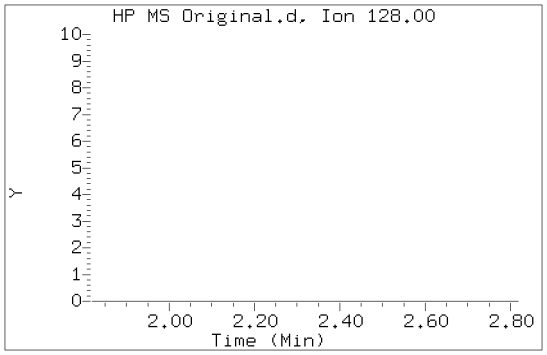

AFTER

MASS
82
AREA
1147
HEIGHT
481
26-Jul-2024
11:51
ALSHS
S



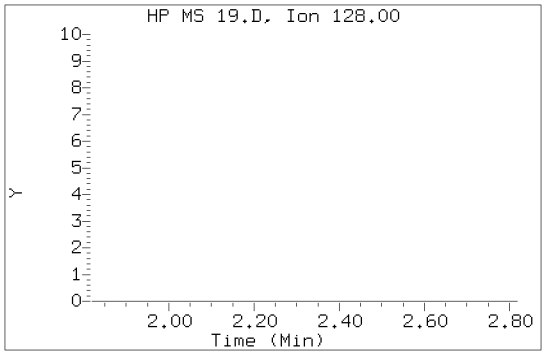

BEFORE

MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
18:25
ALSHS
Server



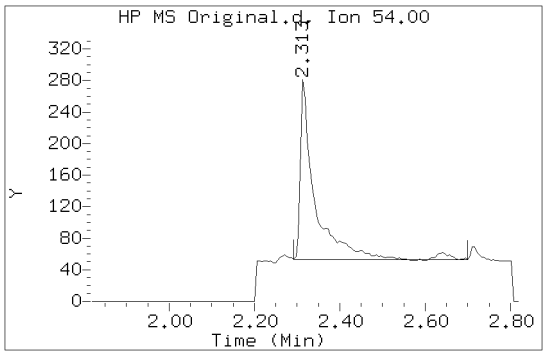

AFTER

MASS
128
AREA
0
HEIGHT
0
26-Jul-2024
11:51
ALSHS
S



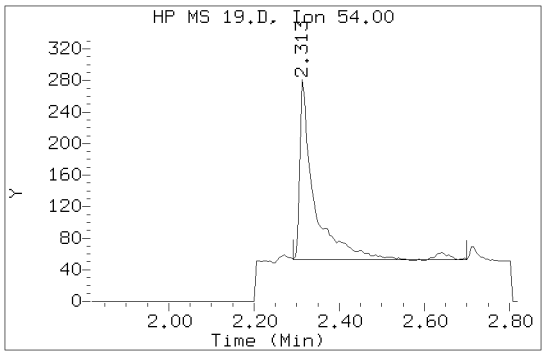

BEFORE

MASS
54
AREA
551
HEIGHT
228
29-Jun-2024
18:25
ALSHS
Server




AFTER

MASS
54
AREA
551
HEIGHT
228
26-Jul-2024
11:51
ALSHS
S



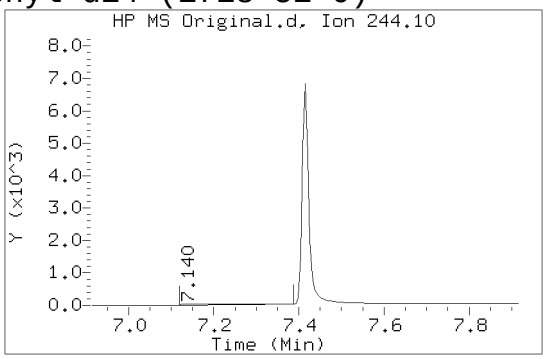
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\19.D
Inj Date : 29-JUN-2024 18:10
InstruID : SV6.i
LabSampID : HS24061218-03

## 4-Terphenyl-d14 (1718-51-0)

Reason Code: MBA

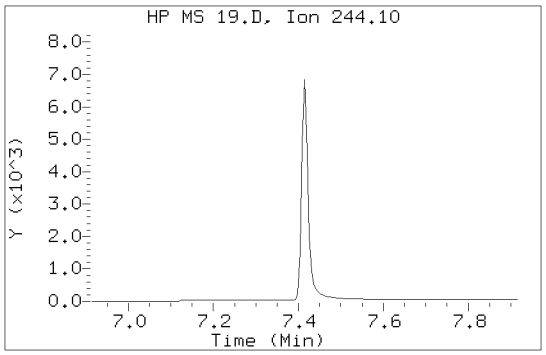
BEFORE

MASS
244.1
AREA
362
HEIGHT
44
29-Jun-2024
18:25
ALSHS
Server



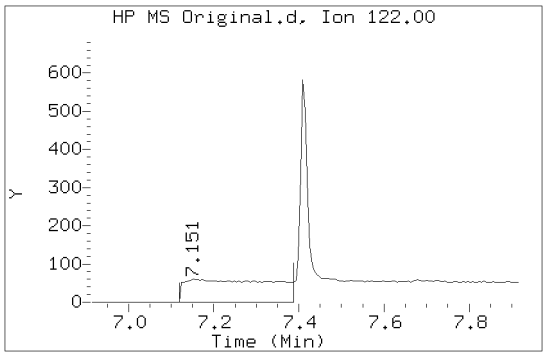

AFTER

MASS
244.1
AREA
9602
HEIGHT
6822
26-Jul-2024
11:51
ALSHS
S



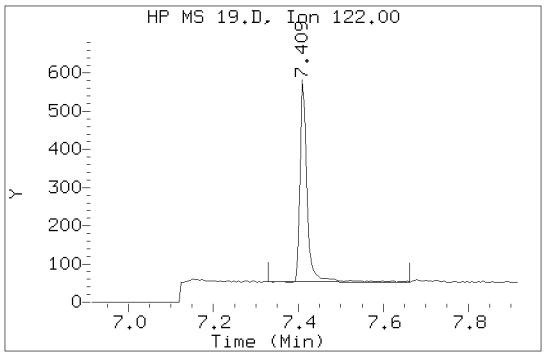

BEFORE

MASS
122
AREA
883
HEIGHT
60
29-Jun-2024
18:25
ALSHS
Server



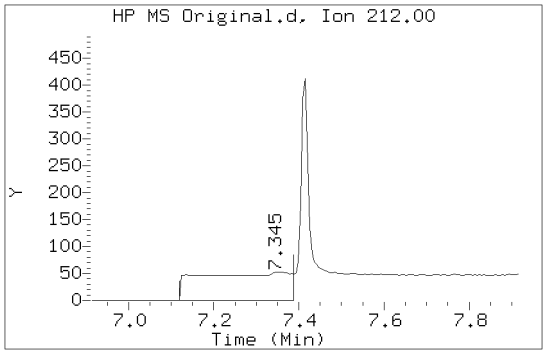

AFTER

MASS
122
AREA
592
HEIGHT
528
26-Jul-2024
11:51
ALSHS
S



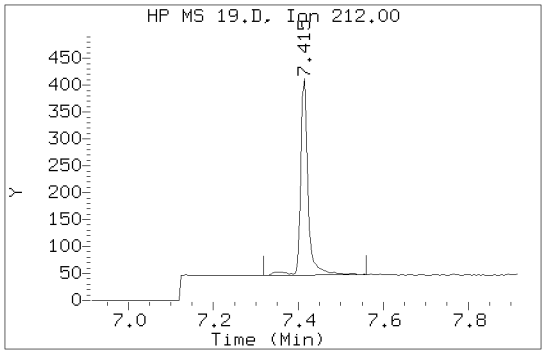

BEFORE

MASS
212
AREA
769
HEIGHT
53
29-Jun-2024
18:25
ALSHS
Server




AFTER

MASS
212
AREA
434
HEIGHT
364
26-Jul-2024
11:51
ALSHS
S

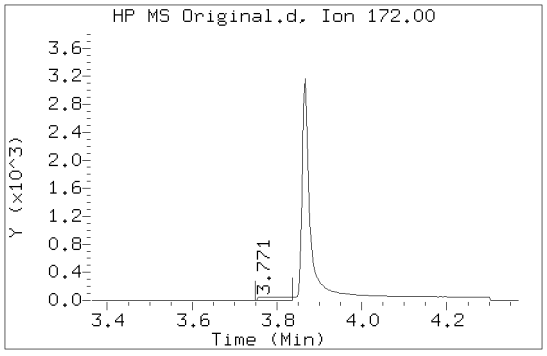



## 2-Fluorobiphenyl (321-60-8)

Reason Code: MBA

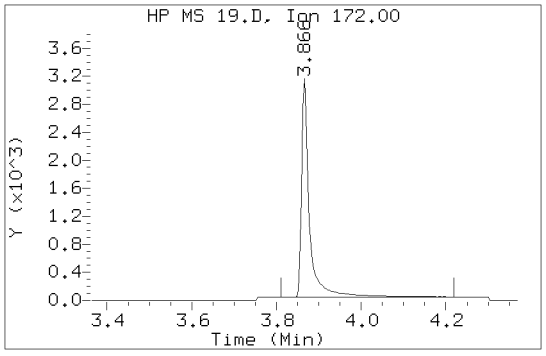
BEFORE

MASS
172
AREA
225
HEIGHT
45
29-Jun-2024
18:25
ALSHS
Server




AFTER

MASS
172
AREA
3988
HEIGHT
3120
26-Jul-2024
11:51
ALSHS
S



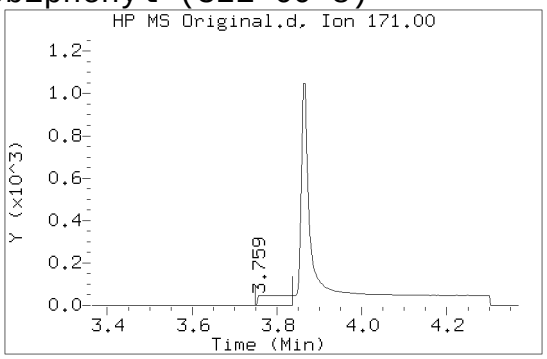
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\19.D
Inj Date : 29-JUN-2024 18:10
InstruID : SV6.i
LabSampID : HS24061218-03

## 2-Fluorobiphenyl (321-60-8)

Reason Code: MBA

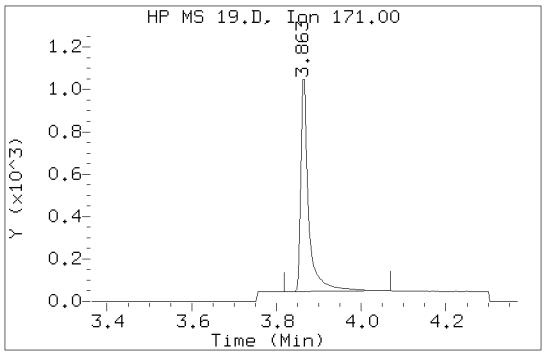
### BEFORE

MASS
171
AREA
225
HEIGHT
45
29-Jun-2024
18:25
ALSHS
Server




### AFTER

MASS
171
AREA
1281
HEIGHT
1000
26-Jul-2024
11:51
ALSHS
S



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\20.D Page 1
Report Date: 26-Jul-2024 11:51

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\20.D
Lab Smp Id: HS24061218-04
Inj Date : 29-JUN-2024 18:27
Operator : LG Inst ID: SV6.i
Smp Info : HS24061218-04
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 26-Jul-2024 11:51 r.patel Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 1.921 | 1.916 | (1.000) | 2723 | 0.10000 | (aQ) |
| * 45 Naphthalene-d8 | 136 | 2.880 | 2.880 | (1.000) | 6166 | 0.10000 | |
| $ 33 Nitrobenzene-d5 | 82 | 2.318 | 2.318 | (0.805) | 1279 | 0.06909 | 0.06909(M) |
| * 86 Acenaphthene-d10 | 164 | 4.459 | 4.459 | (1.000) | 3594 | 0.10000 | (QM) |
| $ 69 2-Fluorobiphenyl | 172 | 3.866 | 3.866 | (0.889) | 3231 | 0.05881 | 0.05881 |
| * 126 Phenanthrene-d10 | 188 | 5.849 | 5.855 | (1.000) | 7142 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 8.367 | 8.366 | (1.000) | 6925 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.414 | 7.414 | (0.886) | 9072 | 0.06431 | 0.06431(M) |
| * 198 Perylene-d12 | 264 | 9.856 | 9.861 | (1.000) | 7171 | 0.10000 | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\20.D



Date : 29-JUN-2024 18:27

Client ID:

Instrument: SV6.i

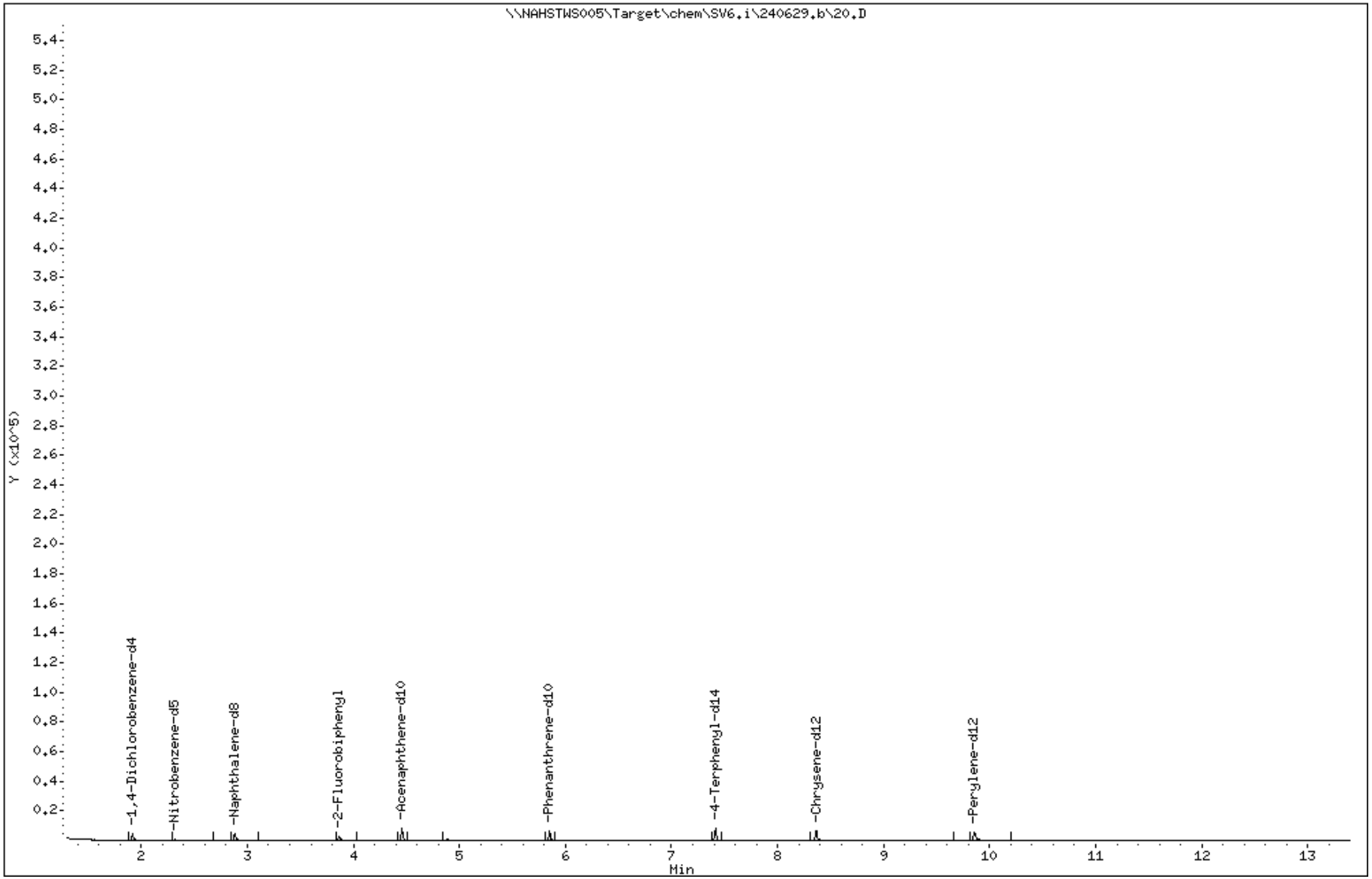
Sample Info: HS24061218-04

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



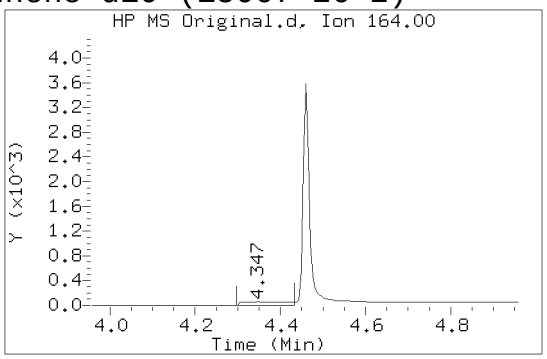
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\20.D
Inj Date : 29-JUN-2024 18:27
InstruID : SV6.i
LabSampID : HS24061218-04

## Acenaphthene-d10 (15067-26-2)

Reason Code: MBA

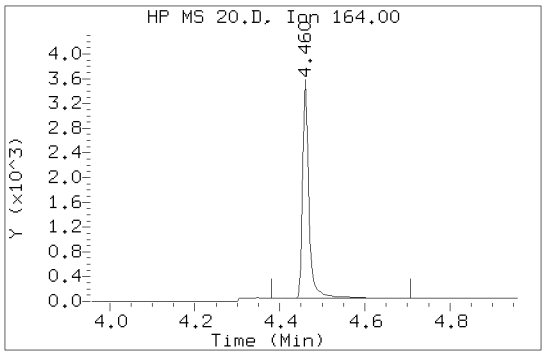
BEFORE

MASS
164
AREA
389
HEIGHT
57
29-Jun-2024
18:41
ALSHS
Server



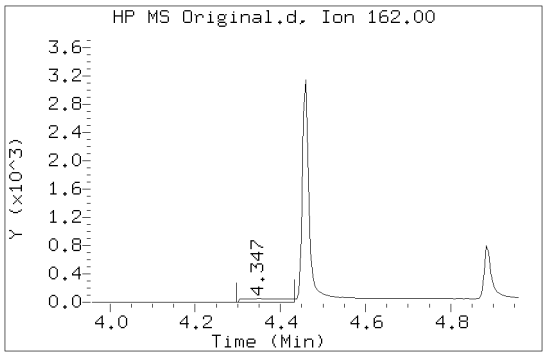

AFTER

MASS
164
AREA
3594
HEIGHT
3535
26-Jul-2024
11:51
ALSHS
S



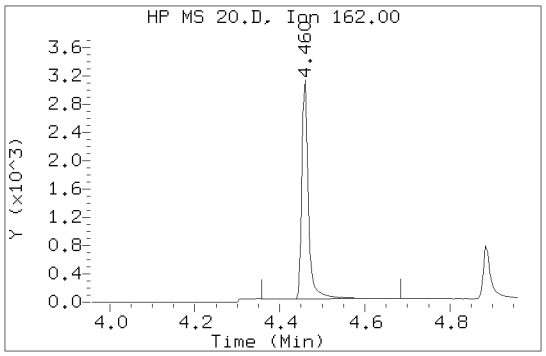

BEFORE

MASS
162
AREA
374
HEIGHT
52
29-Jun-2024
18:41
ALSHS
Server



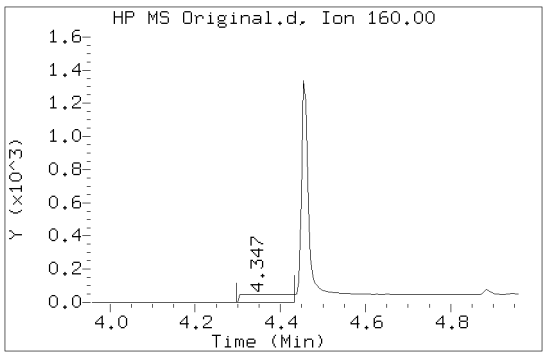

AFTER

MASS
162
AREA
3238
HEIGHT
3094
26-Jul-2024
11:51
ALSHS
S



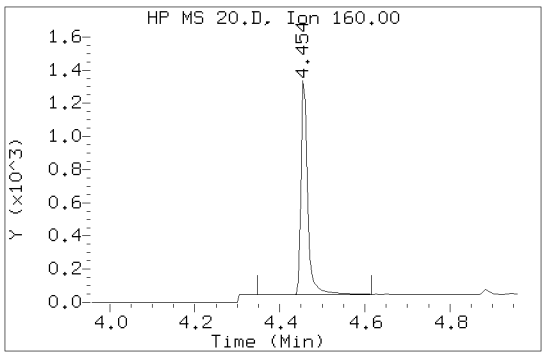

BEFORE

MASS
160
AREA
355
HEIGHT
47
29-Jun-2024
18:41
ALSHS
Server




AFTER

MASS
160
AREA
1377
HEIGHT
1288
26-Jul-2024
11:51
ALSHS
S

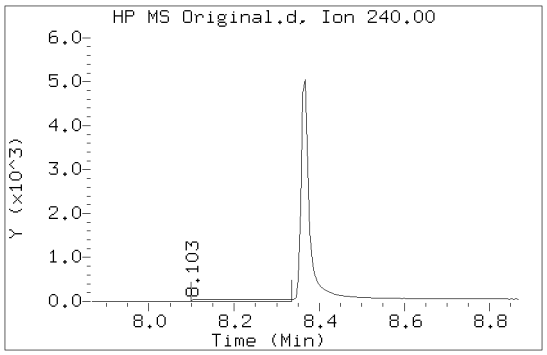



## Chrysene-d12 (1719-03-5)

Reason Code:

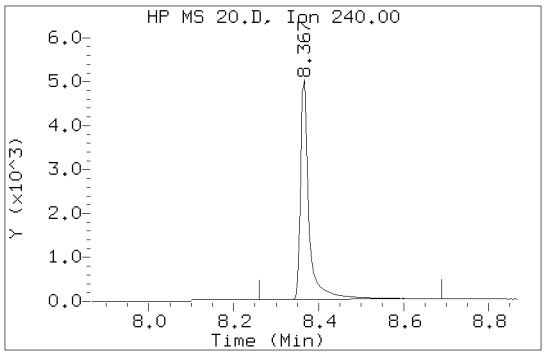
BEFORE

MASS
240
AREA
665
HEIGHT
49
29-Jun-2024
18:41
ALSHS
Server




AFTER

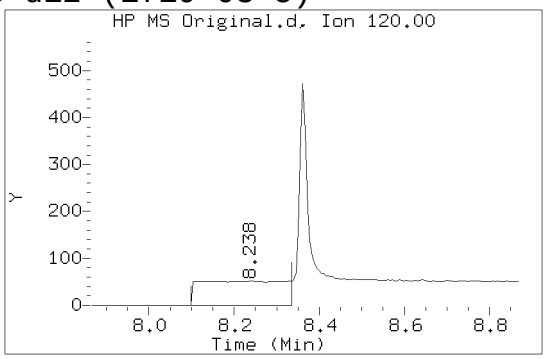
MASS
240
AREA
6925
HEIGHT
4996
26-Jul-2024
11:51
ALSHS
S



Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\20.D
Inj Date : 29-JUN-2024 18:27
InstruID : SV6.i
LabSampID : HS24061218-04

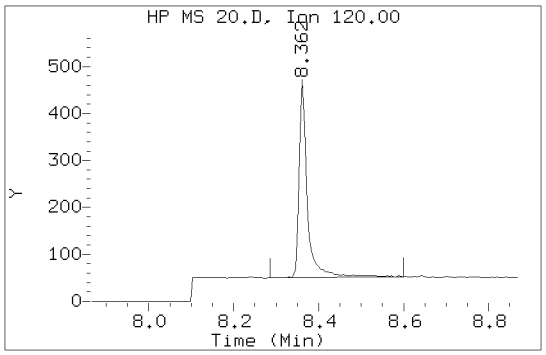
## Chrysene-d12 (1719-03-5)

BEFORE
MASS
120
AREA
717
HEIGHT
52
29-Jun-2024
18:41
ALSHS
Server

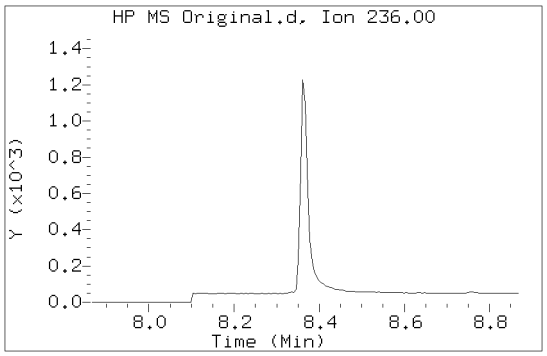



Reason Code:

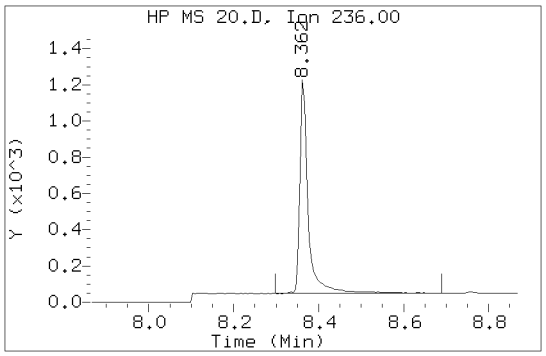
AFTER
MASS
120
AREA
566
HEIGHT
421
26-Jul-2024
11:51
ALSHS
S




BEFORE
MASS
236
AREA
0
HEIGHT
0
29-Jun-2024
18:41
ALSHS
Server



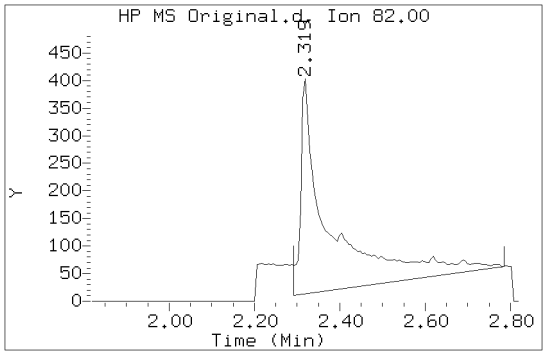

AFTER
MASS
236
AREA
1601
HEIGHT
1178
26-Jul-2024
11:51
ALSHS
S



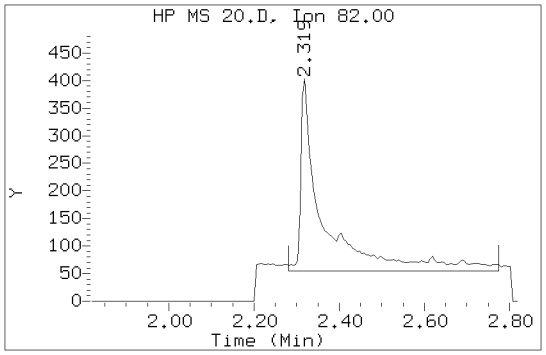

## Nitrobenzene-d5 (4165-60-0)

Reason Code: MBA

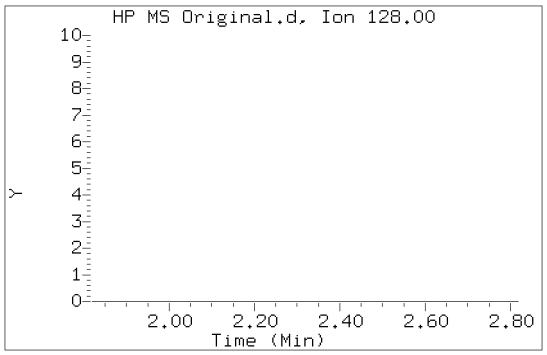
BEFORE
MASS
82
AREA
1831
HEIGHT
390
29-Jun-2024
18:41
ALSHS
Server



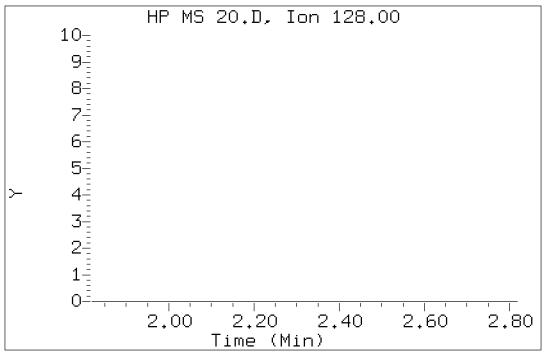

AFTER
MASS
82
AREA
1279
HEIGHT
348
26-Jul-2024
11:51
ALSHS
S




BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
18:41
ALSHS
Server




AFTER
MASS
128
AREA
0
HEIGHT
0
26-Jul-2024
11:51
ALSHS
S



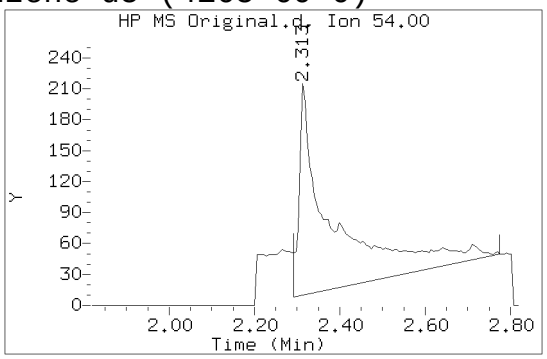
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\20.D
Inj Date : 29-JUN-2024 18:27
InstruID : SV6.i
LabSampID : HS24061218-04

## Nitrobenzene-d5 (4165-60-0)

Reason Code: MBA

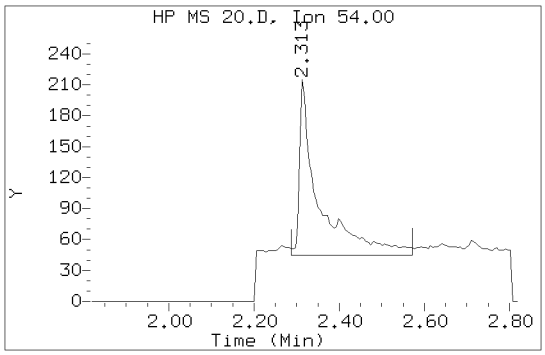
BEFORE

MASS
54
AREA
1096
HEIGHT
205
29-Jun-2024
18:41
ALSHS
Server




AFTER

MASS
54
AREA
534
HEIGHT
170
26-Jul-2024
11:51
ALSHS
S

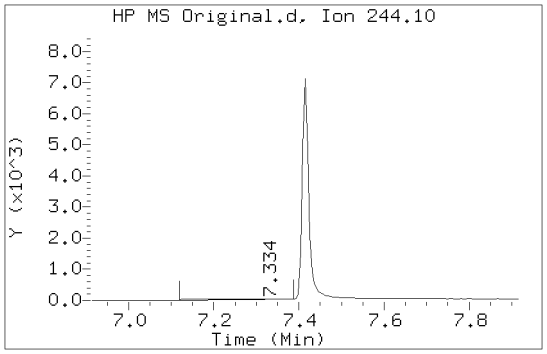



## 4-Terphenyl-d14 (1718-51-0)

Reason Code: MBA

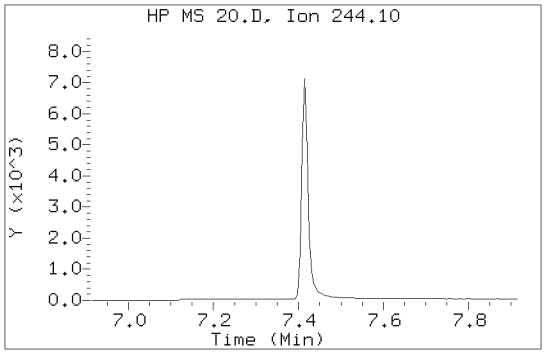
BEFORE

MASS
244.1
AREA
351
HEIGHT
9
29-Jun-2024
18:41
ALSHS
Server



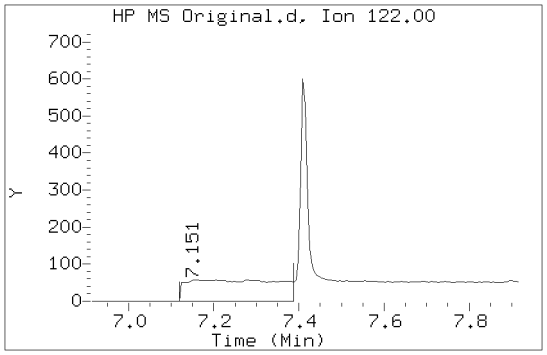

AFTER

MASS
244.1
AREA
9072
HEIGHT
7102
26-Jul-2024
11:51
ALSHS
S



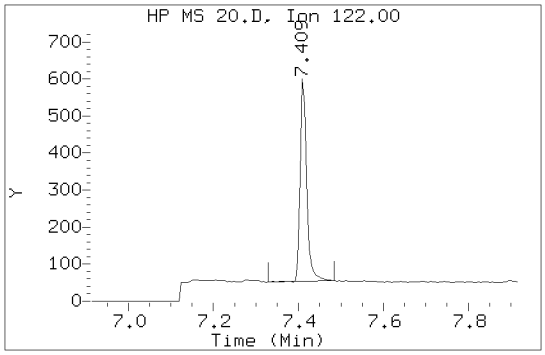

BEFORE

MASS
122
AREA
868
HEIGHT
58
29-Jun-2024
18:41
ALSHS
Server



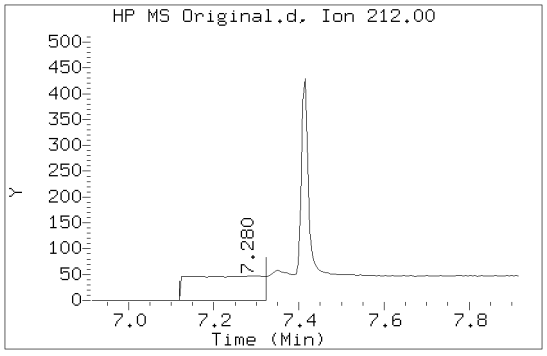

AFTER

MASS
122
AREA
572
HEIGHT
545
26-Jul-2024
11:51
ALSHS
S



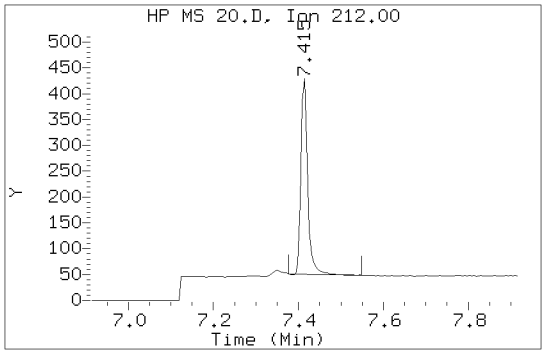

BEFORE

MASS
212
AREA
565
HEIGHT
47
29-Jun-2024
18:41
ALSHS
Server




AFTER

MASS
212
AREA
414
HEIGHT
378
26-Jul-2024
11:51
ALSHS
S



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\21.D Page 1
Report Date: 02-Jul-2024 09:21

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\21.D
Lab Smp Id: HS24061218-05
Inj Date : 29-JUN-2024 18:45
Operator : LG Inst ID: SV6.i
Smp Info : HS24061218-05
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 01-Jul-2024 08:31 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 1.921 | 1.916 | (1.000) | 2516 | 0.10000 | (aQ) |
| * 45 Naphthalene-d8 | 136 | 2.880 | 2.880 | (1.000) | 5135 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.318 | 2.318 | (0.805) | 1108 | 0.07188 | 0.07188(M) |
| * 86 Acenaphthene-d10 | 164 | 4.459 | 4.459 | (1.000) | 3155 | 0.10000 | (QM) |
| $ 69 2-Fluorobiphenyl | 172 | 3.866 | 3.866 | (0.867) | 3348 | 0.06942 | 0.06942(M) |
| * 126 Phenanthrene-d10 | 188 | 5.849 | 5.855 | (1.000) | 6225 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 8.361 | 8.366 | (1.000) | 5960 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.414 | 7.414 | (0.887) | 8331 | 0.06862 | 0.06862(M) |
| * 198 Perylene-d12 | 264 | 9.856 | 9.861 | (1.000) | 6265 | 0.10000 | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\21.D



Date : 29-JUN-2024 18:45

Client ID:

Instrument: SV6.i

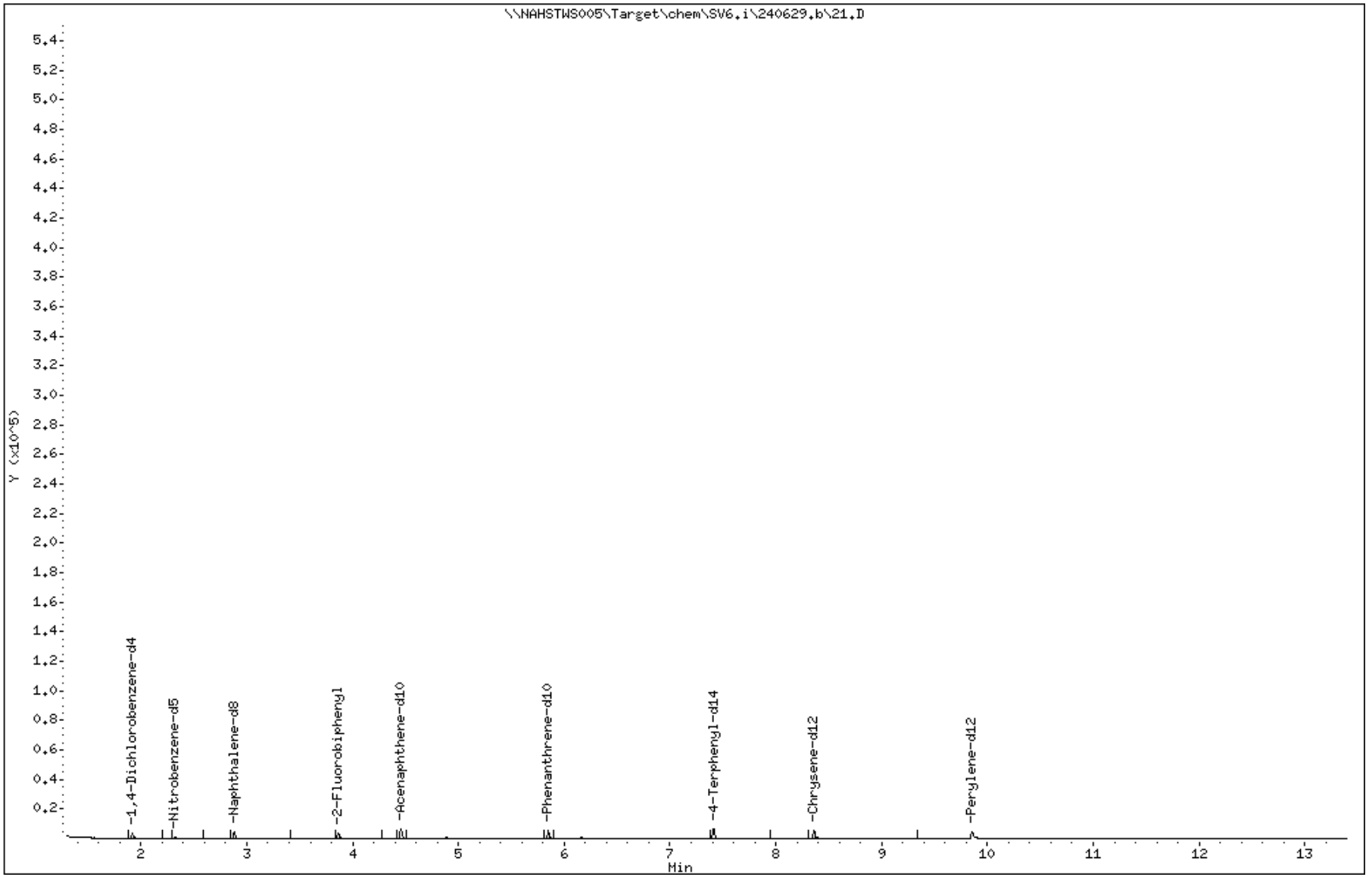
Sample Info: HS24061218-05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

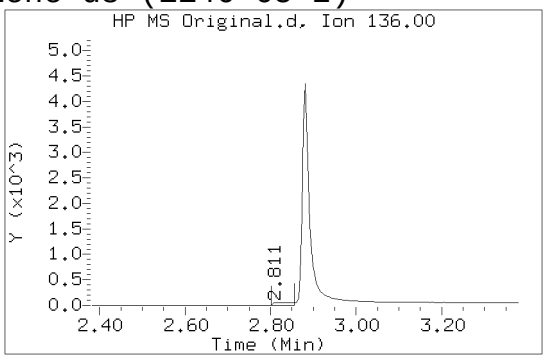


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\21.D
Inj Date : 29-JUN-2024 18:45
InstruID : SV6.i
LabSampID : HS24061218-05

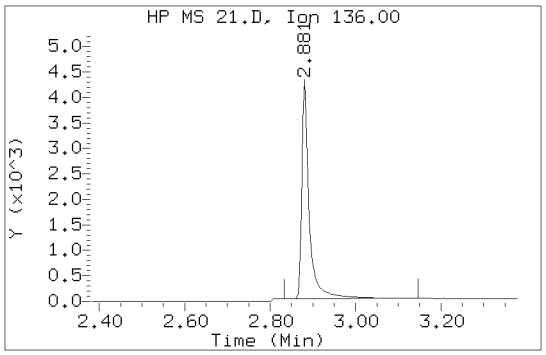
## Naphthalene-d8 (1146-65-2)

Reason Code: MBA

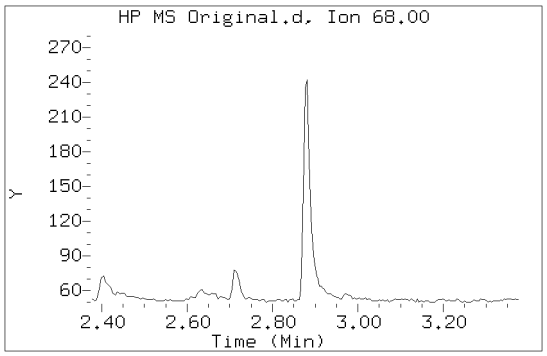
BEFORE
MASS
136
AREA
150
HEIGHT
48
29-Jun-2024
19:02
ALSHS
Server



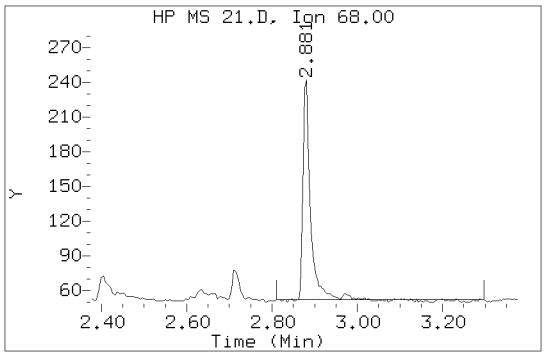

AFTER
MASS
136
AREA
5135
HEIGHT
4301
02-Jul-2024
09:21




BEFORE
MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
19:02
ALSHS
Server



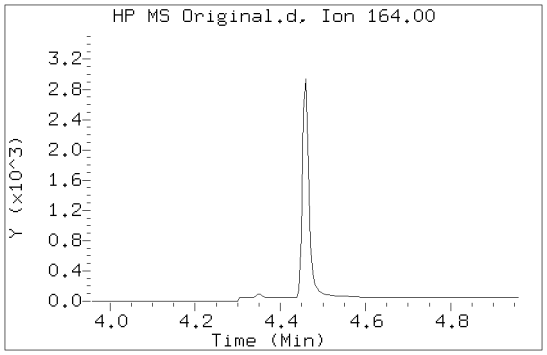

AFTER
MASS
68
AREA
223
HEIGHT
190
02-Jul-2024
09:21



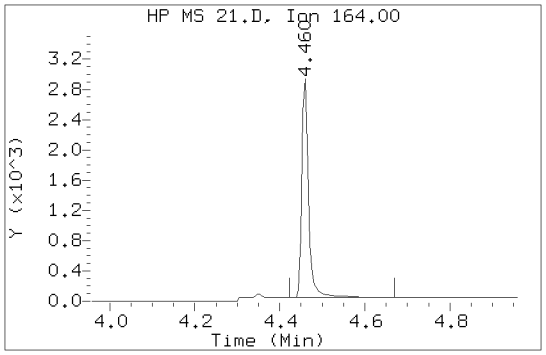

## Acenaphthene-d10 (15067-26-2)

Reason Code: MBA

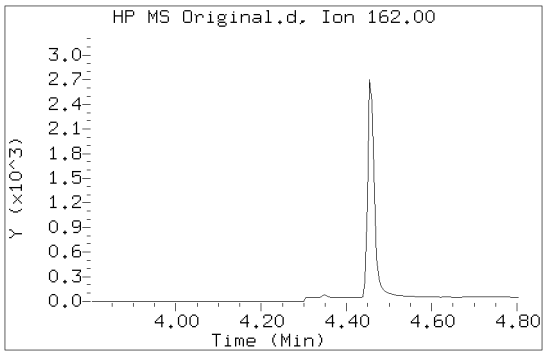
BEFORE
MASS
164
AREA
0
HEIGHT
0
29-Jun-2024
19:02
ALSHS
Server



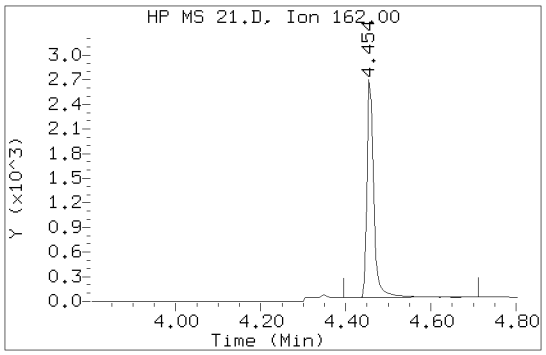

AFTER
MASS
164
AREA
3155
HEIGHT
2890
02-Jul-2024
09:21




BEFORE
MASS
162
AREA
0
HEIGHT
0
29-Jun-2024
19:02
ALSHS
Server




AFTER
MASS
162
AREA
2874
HEIGHT
2652
02-Jul-2024
09:21



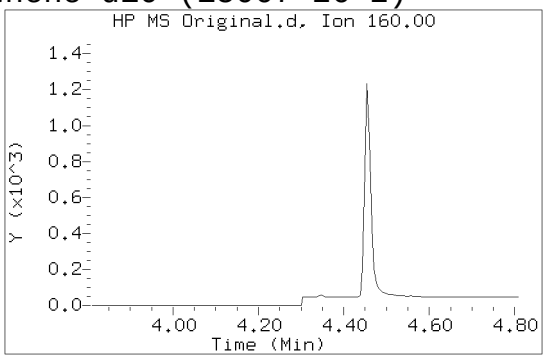
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\21.D
Inj Date : 29-JUN-2024 18:45
InstruID : SV6.i
LabSampID : HS24061218-05

## Acenaphthene-d10 (15067-26-2)

Reason Code: MBA

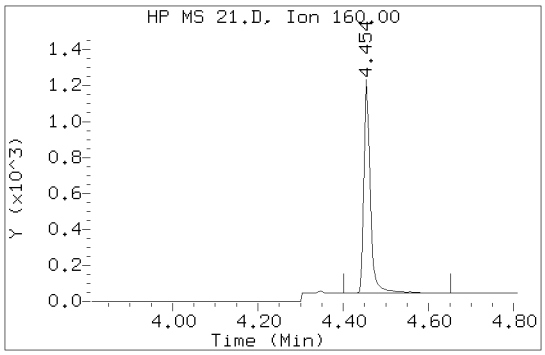
**BEFORE**

MASS
160
AREA
0
HEIGHT
0
29-Jun-2024
19:02
ALSHS
Server




**AFTER**

MASS
160
AREA
1236
HEIGHT
1187
02-Jul-2024
09:21

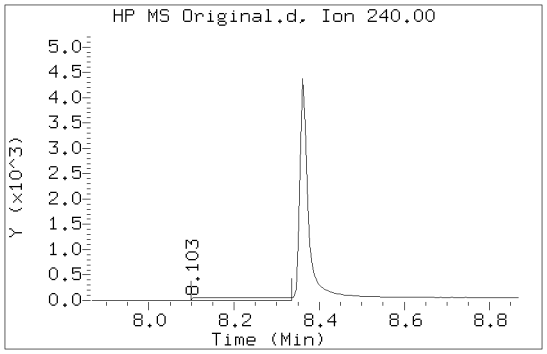



## Chrysene-d12 (1719-03-5)

Reason Code: MBA

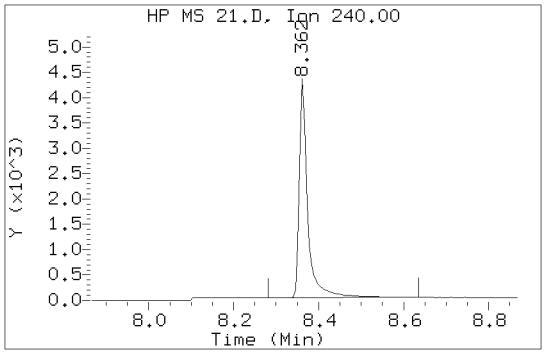
**BEFORE**

MASS
240
AREA
668
HEIGHT
48
29-Jun-2024
19:02
ALSHS
Server



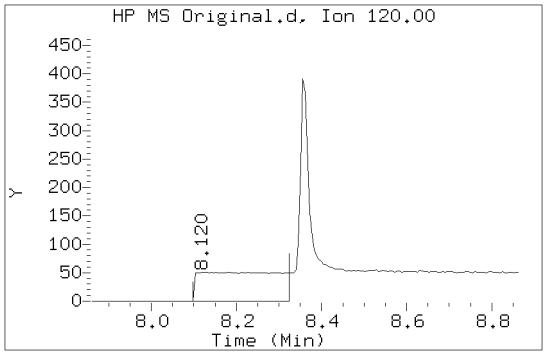

**AFTER**

MASS
240
AREA
5960
HEIGHT
4325
02-Jul-2024
09:21



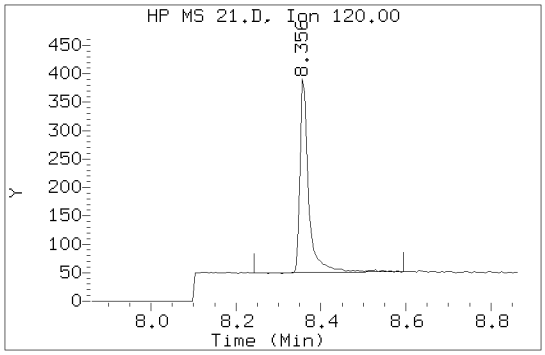

**BEFORE**

MASS
120
AREA
679
HEIGHT
51
29-Jun-2024
19:02
ALSHS
Server



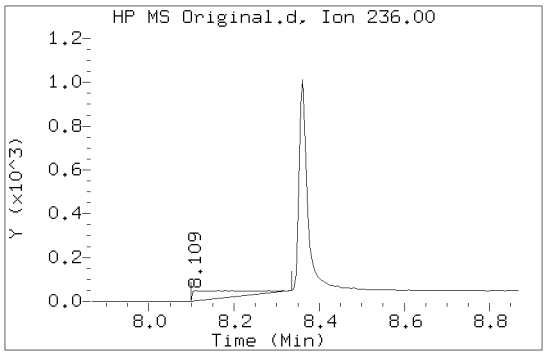

**AFTER**

MASS
120
AREA
476
HEIGHT
340
02-Jul-2024
09:21



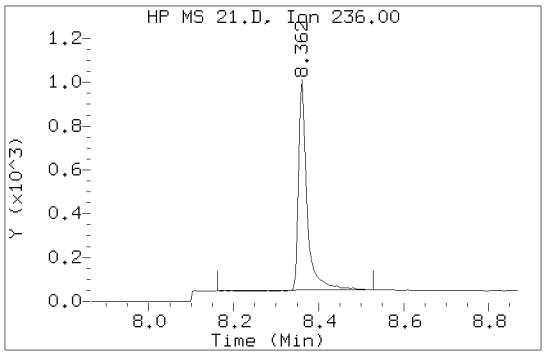

**BEFORE**

MASS
236
AREA
325
HEIGHT
46
29-Jun-2024
19:02
ALSHS
Server




**AFTER**

MASS
236
AREA
1298
HEIGHT
960
02-Jul-2024
09:21



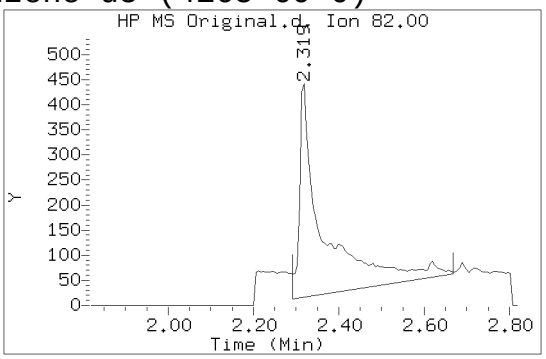
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\21.D
Inj Date : 29-JUN-2024 18:45
InstruID : SV6.i
LabSampID : HS24061218-05

## Nitrobenzene-d5 (4165-60-0)

Reason Code: MBA

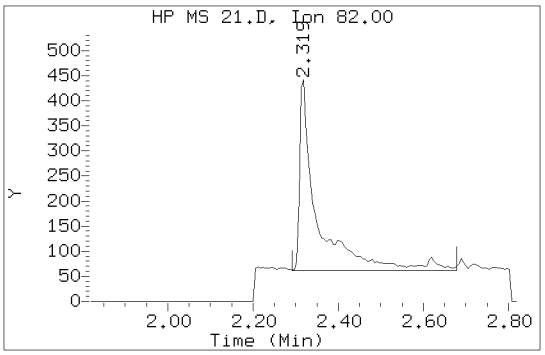
**BEFORE**

MASS
82
AREA
1640
HEIGHT
425
29-Jun-2024
19:02
ALSHS
Server



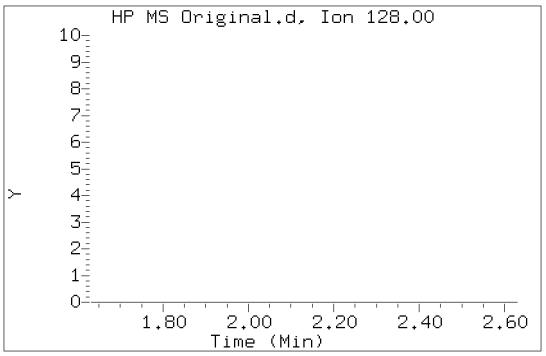

**AFTER**

MASS
82
AREA
1108
HEIGHT
381
02-Jul-2024
09:21



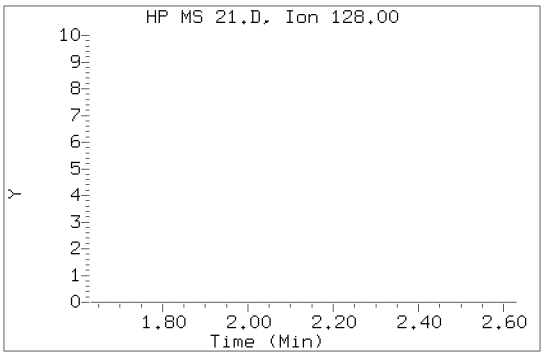

**BEFORE**

MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
19:02
ALSHS
Server



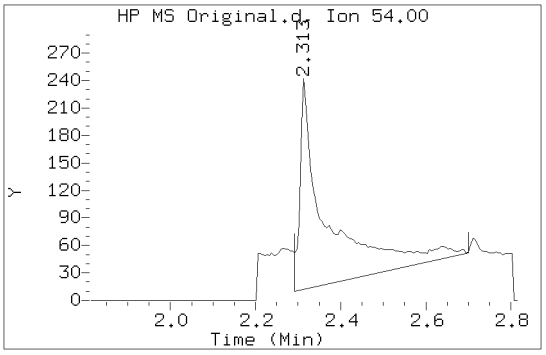

**AFTER**

MASS
128
AREA
0
HEIGHT
0
02-Jul-2024
09:21



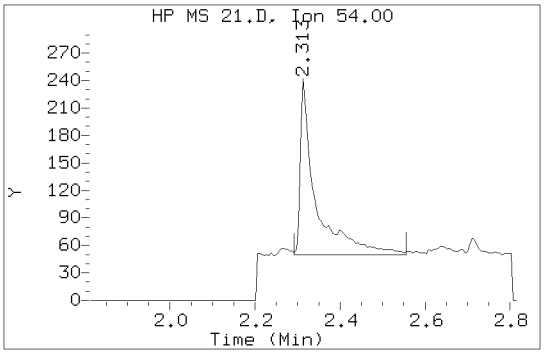

**BEFORE**

MASS
54
AREA
987
HEIGHT
229
29-Jun-2024
19:02
ALSHS
Server




**AFTER**

MASS
54
AREA
478
HEIGHT
192
02-Jul-2024
09:21

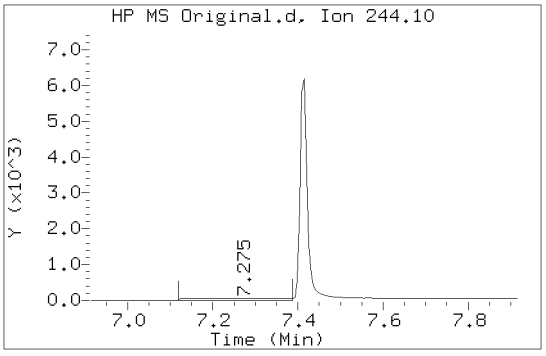



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

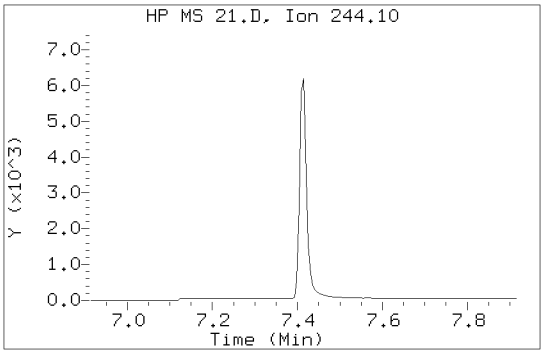
**BEFORE**

MASS
244.1
AREA
754
HEIGHT
49
29-Jun-2024
19:02
ALSHS
Server




**AFTER**

MASS
244.1
AREA
8331
HEIGHT
6162
02-Jul-2024
09:21

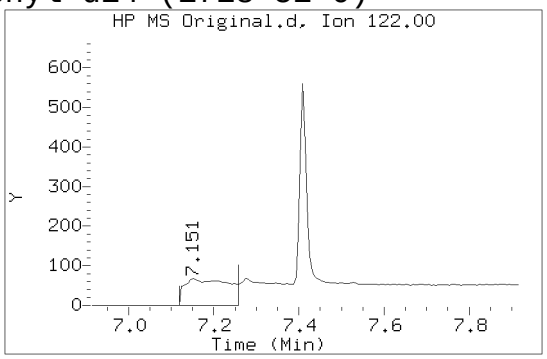


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\21.D
Inj Date : 29-JUN-2024 18:45
InstruID : SV6.i
LabSampID : HS24061218-05

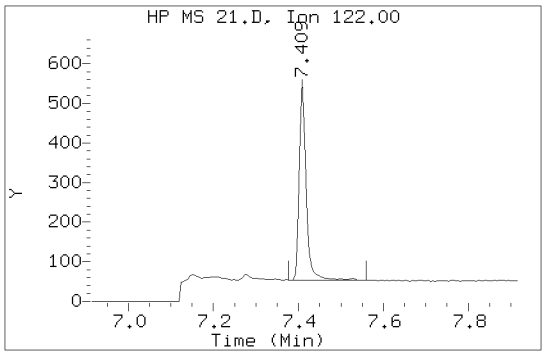
## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

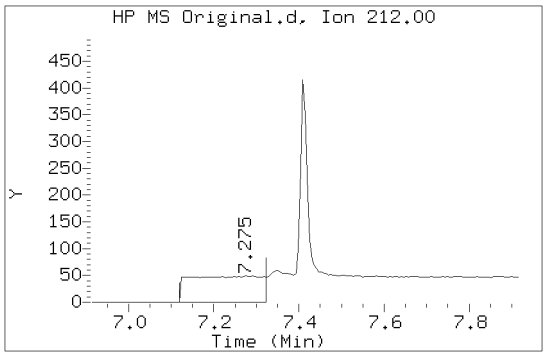
BEFORE
MASS
122
AREA
489
HEIGHT
68
29-Jun-2024
19:02
ALSHS
Server



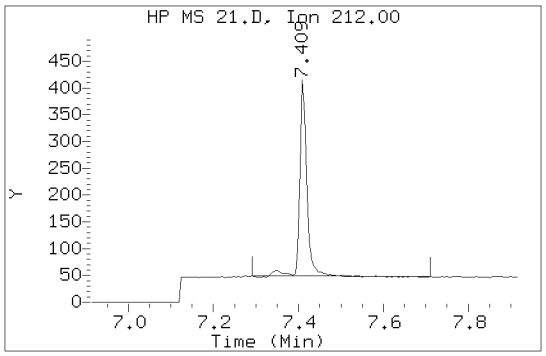

AFTER
MASS
122
AREA
561
HEIGHT
506
02-Jul-2024
09:21




BEFORE
MASS
212
AREA
579
HEIGHT
49
29-Jun-2024
19:02
ALSHS
Server



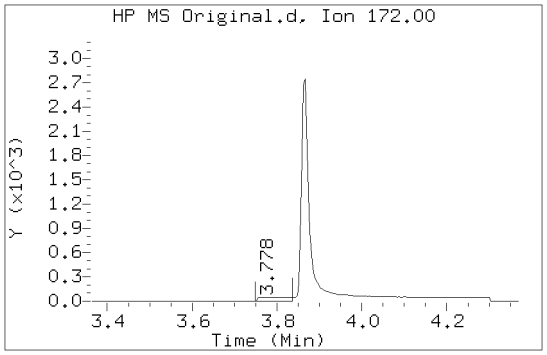

AFTER
MASS
212
AREA
415
HEIGHT
366
02-Jul-2024
09:21



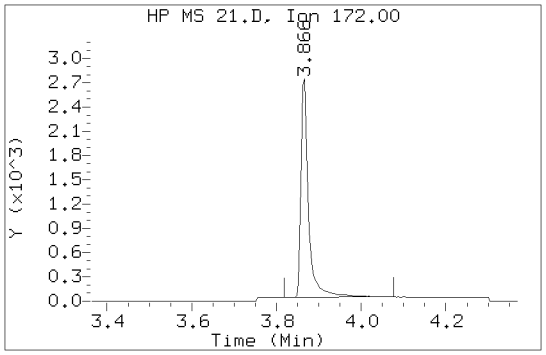

## 2-Fluorobiphenyl (321-60-8)

Reason Code: MBA

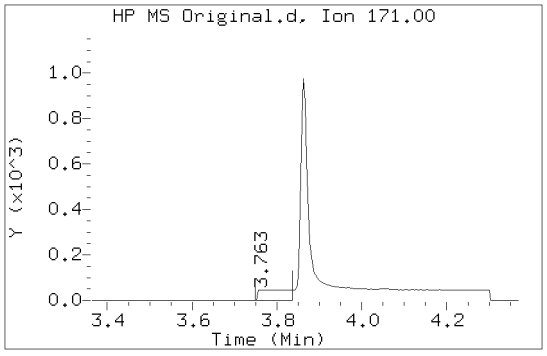
BEFORE
MASS
172
AREA
224
HEIGHT
45
29-Jun-2024
19:02
ALSHS
Server



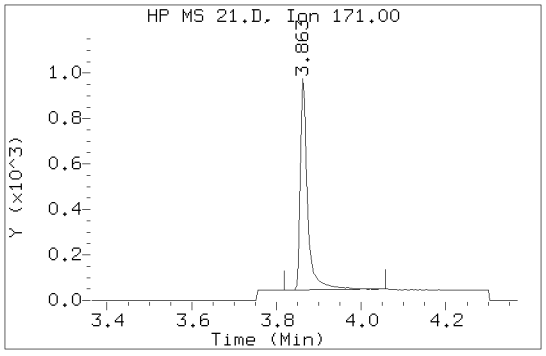

AFTER
MASS
172
AREA
3348
HEIGHT
2702
02-Jul-2024
09:21




BEFORE
MASS
171
AREA
224
HEIGHT
45
29-Jun-2024
19:02
ALSHS
Server




AFTER
MASS
171
AREA
1079
HEIGHT
929
02-Jul-2024
09:21



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\22.D Page 1
Report Date: 02-Jul-2024 09:22

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\22.D
Lab Smp Id: HS24061218-06
Inj Date : 29-JUN-2024 19:02
Operator : LG Inst ID: SV6.i
Smp Info : HS24061218-06
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 01-Jul-2024 08:31 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 1.921 | 1.916 | (1.000) | 2843 | 0.10000 | (aQ) |
| * 45 Naphthalene-d8 | 136 | 2.880 | 2.880 | (1.000) | 6163 | 0.10000 | |
| $ 33 Nitrobenzene-d5 | 82 | 2.318 | 2.318 | (0.805) | 1312 | 0.07091 | 0.07091(M) |
| * 86 Acenaphthene-d10 | 164 | 4.459 | 4.459 | (1.000) | 3985 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 3.866 | 3.866 | (0.867) | 3511 | 0.05764 | 0.05764(M) |
| * 126 Phenanthrene-d10 | 188 | 5.849 | 5.855 | (1.000) | 7121 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 8.361 | 8.366 | (1.000) | 7430 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.414 | 7.414 | (0.887) | 10019 | 0.06619 | 0.06619(M) |
| * 198 Perylene-d12 | 264 | 9.856 | 9.861 | (1.000) | 7876 | 0.10000 | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\22.D



Date : 29-JUN-2024 19:02

Client ID:

Instrument: SV6.i

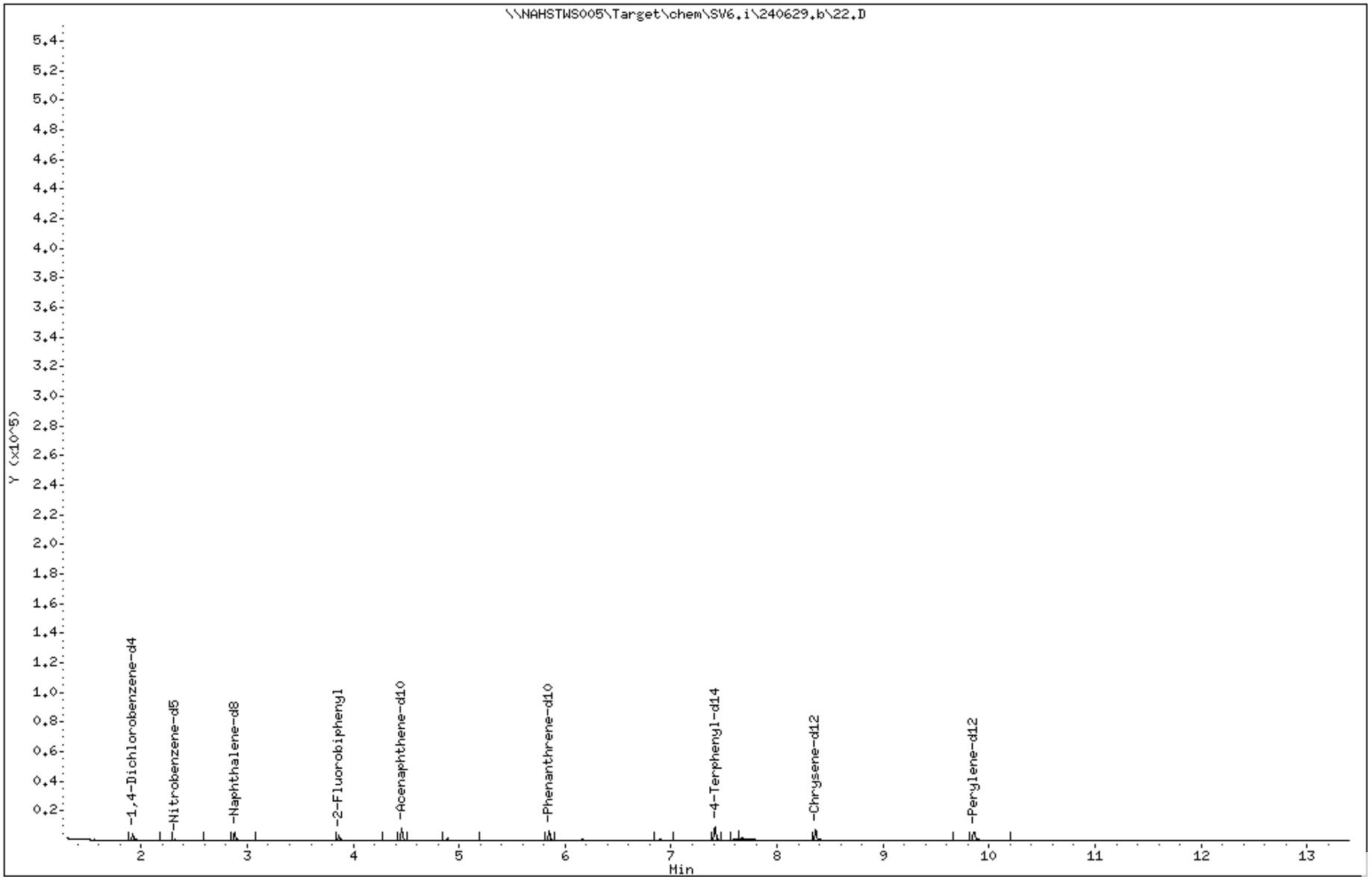
Sample Info: HS24061218-06

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



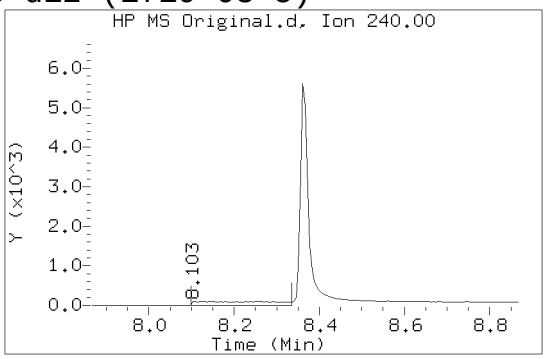
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\22.D
Inj Date : 29-JUN-2024 19:02
InstruID : SV6.i
LabSampID : HS24061218-06

## Chrysene-d12 (1719-03-5)

Reason Code:

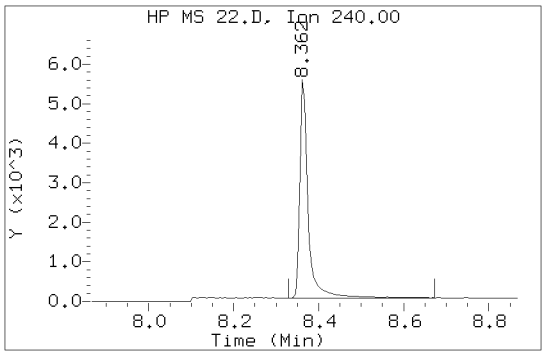
**BEFORE**

MASS
240
AREA
1273
HEIGHT
97
29-Jun-2024
19:17
ALSHS
Server



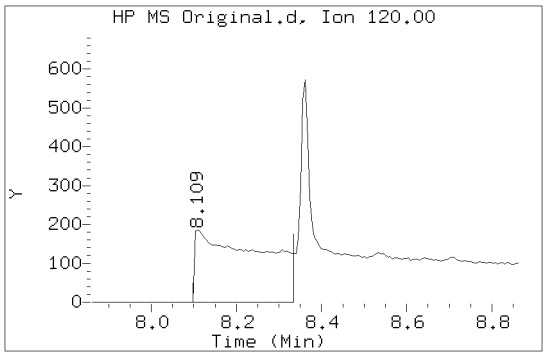

**AFTER**

MASS
240
AREA
7430
HEIGHT
5522
02-Jul-2024
09:22



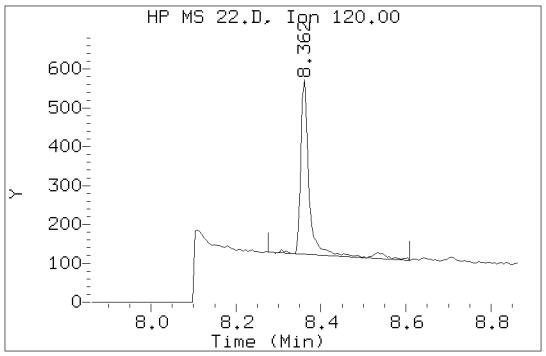

**BEFORE**

MASS
120
AREA
1992
HEIGHT
186
29-Jun-2024
19:17
ALSHS
Server



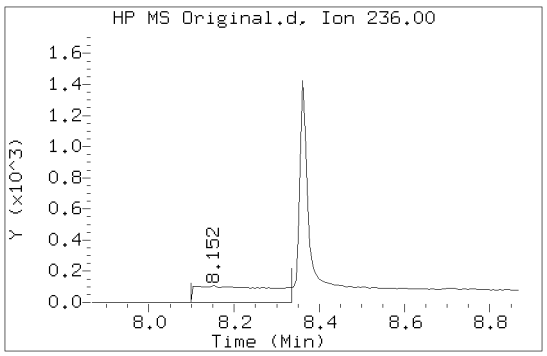

**AFTER**

MASS
120
AREA
626
HEIGHT
448
02-Jul-2024
09:22



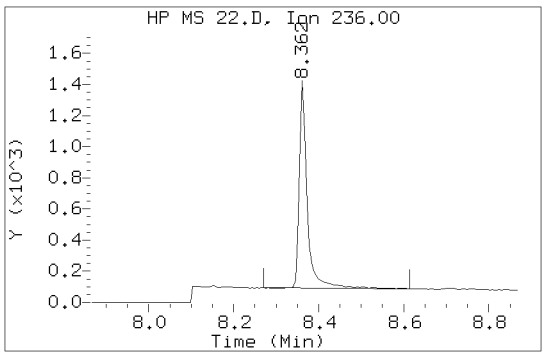

**BEFORE**

MASS
236
AREA
1361
HEIGHT
105
29-Jun-2024
19:17
ALSHS
Server




**AFTER**

MASS
236
AREA
1733
HEIGHT
1332
02-Jul-2024
09:22

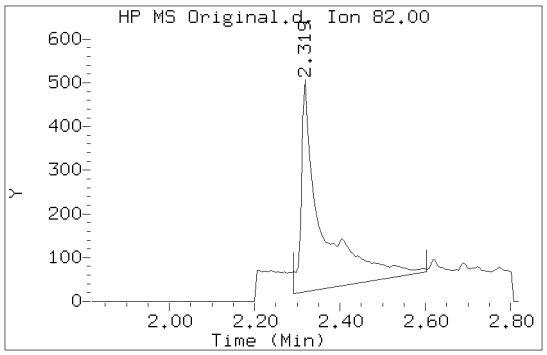



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

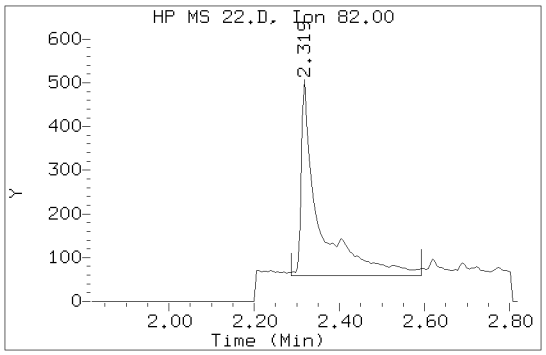
**BEFORE**

MASS
82
AREA
1624
HEIGHT
485
29-Jun-2024
19:17
ALSHS
Server




**AFTER**

MASS
82
AREA
1312
HEIGHT
449
02-Jul-2024
09:22

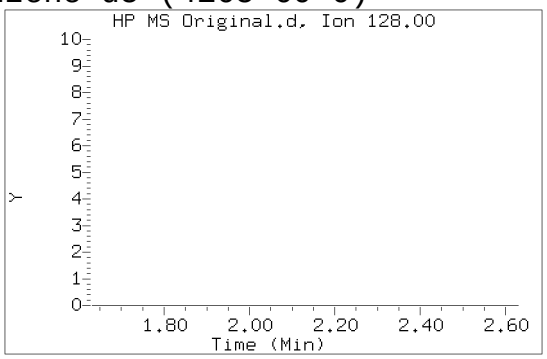


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\22.D
Inj Date : 29-JUN-2024 19:02
InstruID : SV6.i
LabSampID : HS24061218-06

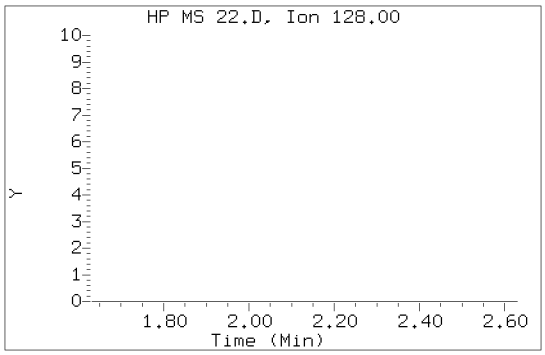
## Nitrobenzene-d5 (4165-60-0)

Reason Code:

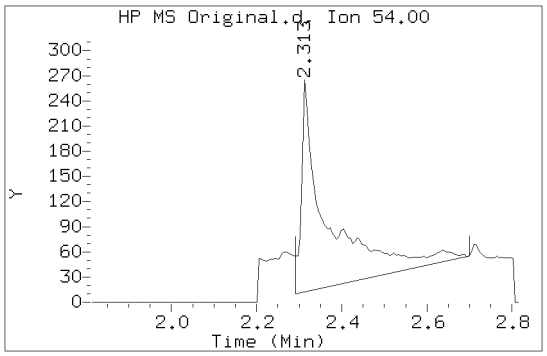
BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
19:17
ALSHS
Server



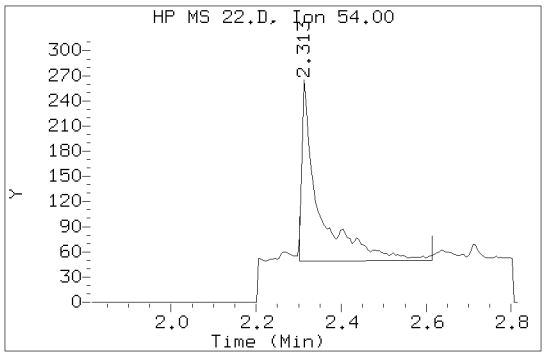

AFTER
MASS
128
AREA
0
HEIGHT
0
02-Jul-2024
09:22




BEFORE
MASS
54
AREA
1072
HEIGHT
252
29-Jun-2024
19:17
ALSHS
Server



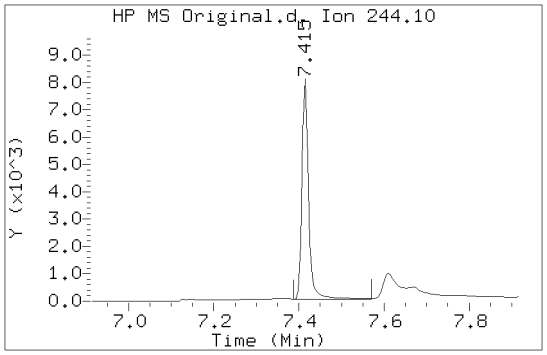

AFTER
MASS
54
AREA
603
HEIGHT
215
02-Jul-2024
09:22



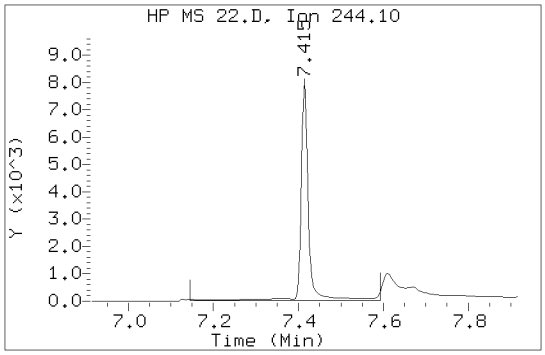

## 4-Terphenyl-d14 (1718-51-0)

Reason Code: MBA

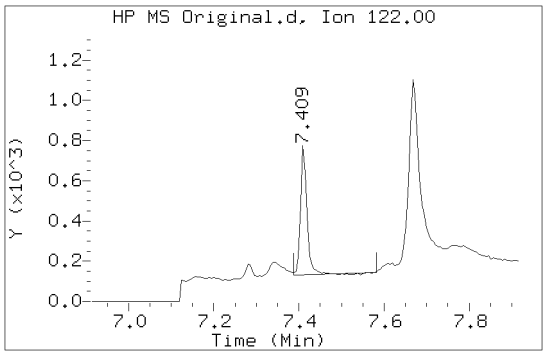
BEFORE
MASS
244.1
AREA
8562
HEIGHT
8059
29-Jun-2024
19:17
ALSHS
Server



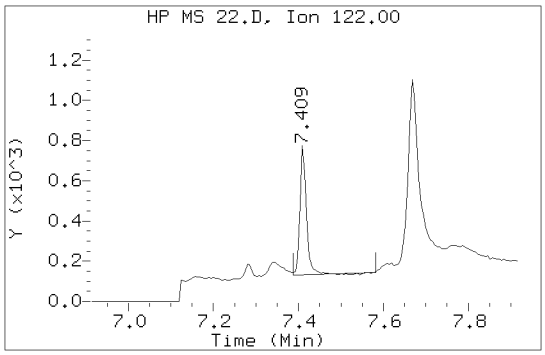

AFTER
MASS
244.1
AREA
10019
HEIGHT
8111
02-Jul-2024
09:22




BEFORE
MASS
122
AREA
657
HEIGHT
643
29-Jun-2024
19:17
ALSHS
Server




AFTER
MASS
122
AREA
657
HEIGHT
643
02-Jul-2024
09:22



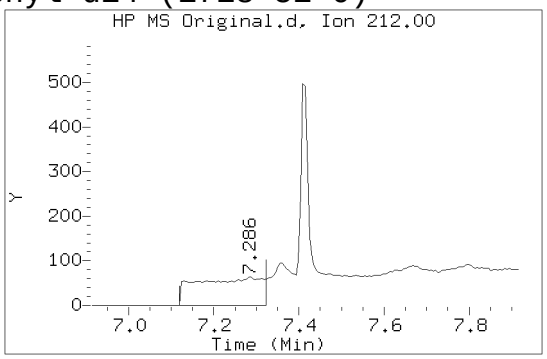
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\22.D
Inj Date : 29-JUN-2024 19:02
InstruID : SV6.i
LabSampID : HS24061218-06

## 4-Terphenyl-d14 (1718-51-0)

Reason Code: MBA

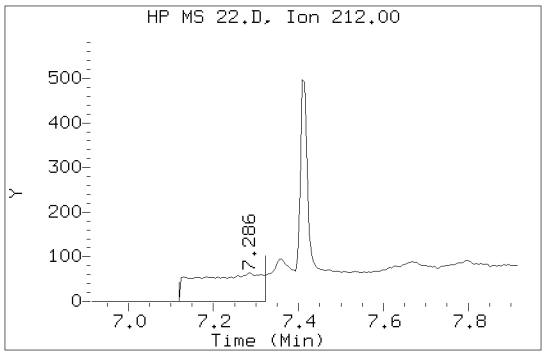
**BEFORE**

MASS
212
AREA
675
HEIGHT
64
29-Jun-2024
19:17
ALSHS
Server




**AFTER**

MASS
212
AREA
675
HEIGHT
64
02-Jul-2024
09:22

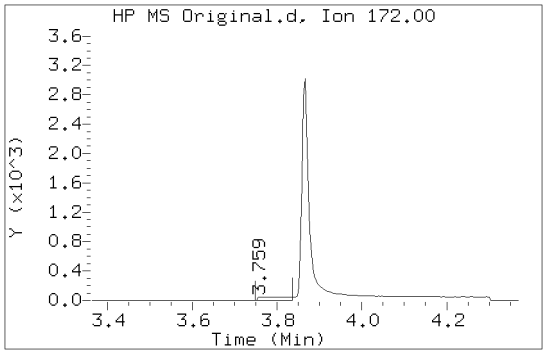



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

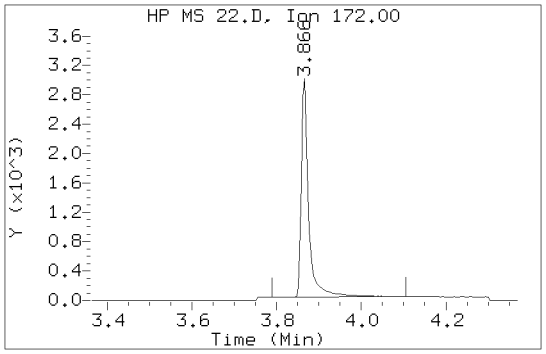
**BEFORE**

MASS
172
AREA
225
HEIGHT
45
29-Jun-2024
19:17
ALSHS
Server



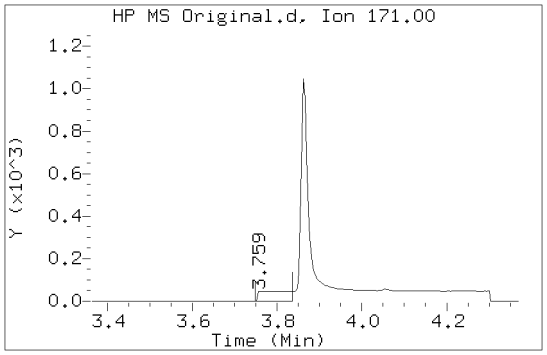

**AFTER**

MASS
172
AREA
3511
HEIGHT
2973
02-Jul-2024
09:22



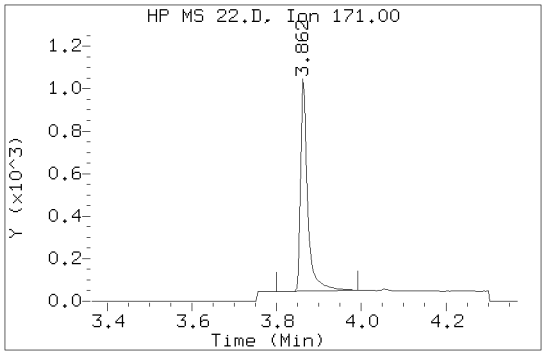

**BEFORE**

MASS
171
AREA
229
HEIGHT
46
29-Jun-2024
19:17
ALSHS
Server




**AFTER**

MASS
171
AREA
1140
HEIGHT
999
02-Jul-2024
09:22



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D Page 1
Report Date: 01-Jul-2024 08:34

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 29-JUN-2024 19:19
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 01-Jul-2024 08:31 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 23 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | AMOUNTS ON-COL ( NG) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 1.916 | 1.916 | (1.000) | 1978 | 0.10000 | (aQ) |
| * 45 Naphthalene-d8 | 136 | 2.880 | 2.880 | (1.000) | 6976 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.318 | 2.318 | (0.805) | 1381 | 0.08000 | 0.06594(M) |
| * 86 Acenaphthene-d10 | 164 | 4.459 | 4.459 | (1.000) | 2152 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 3.866 | 3.866 | (0.867) | 2393 | 0.08000 | 0.07274(M) |
| * 126 Phenanthrene-d10 | 188 | 5.855 | 5.855 | (1.000) | 6903 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 8.366 | 8.366 | (1.000) | 6088 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.414 | 7.414 | (0.886) | 5754 | 0.08000 | 0.04639(M) |
| * 198 Perylene-d12 | 264 | 9.861 | 9.861 | (1.000) | 7898 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 0.719 | 0.719 | (0.376) | 285 | 0.08000 | 0.06727(Q) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D



Date : 29-JUN-2024 19:19

Client ID: 14DX-0.08

Instrument: SV6.i

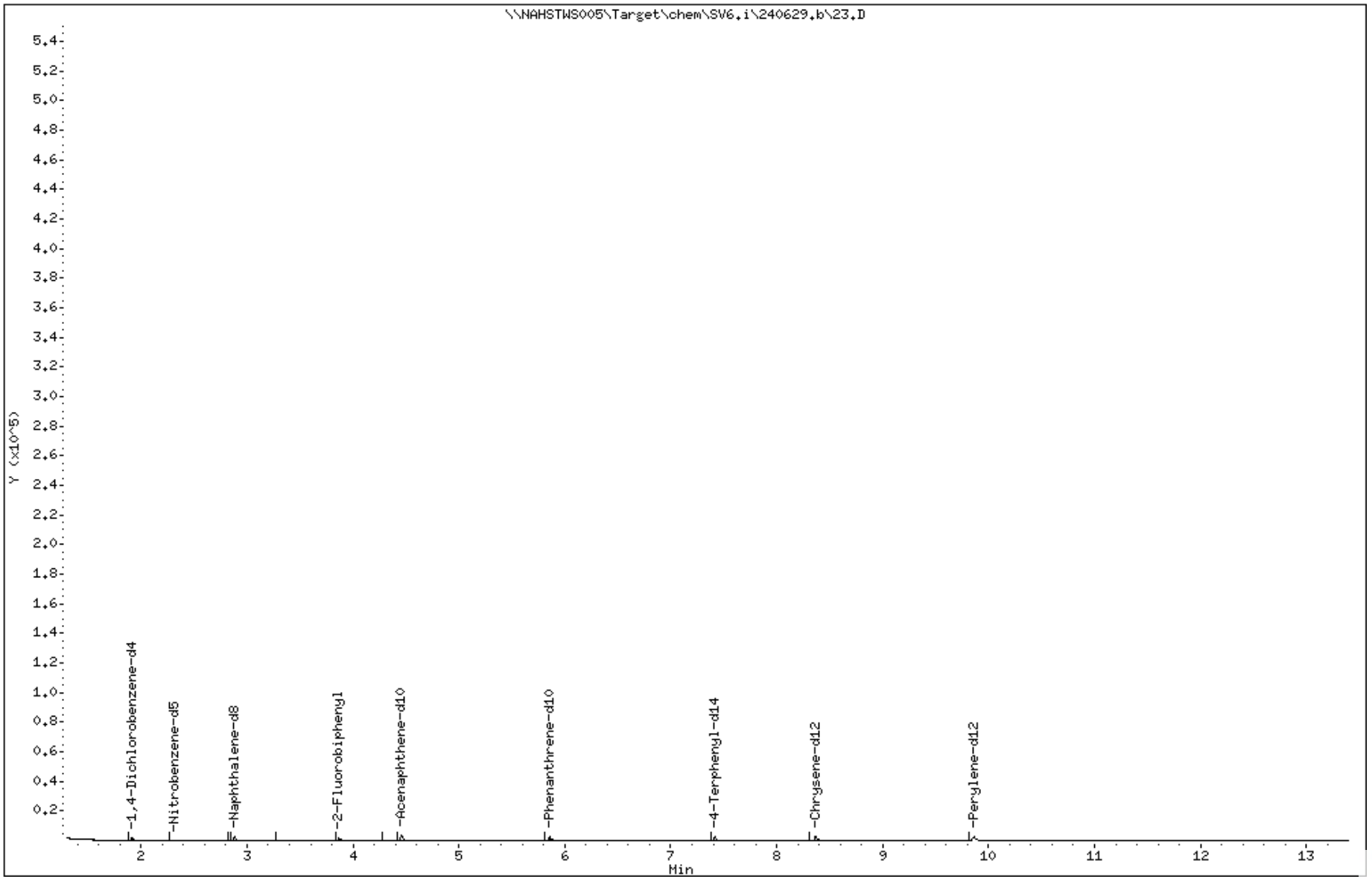
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

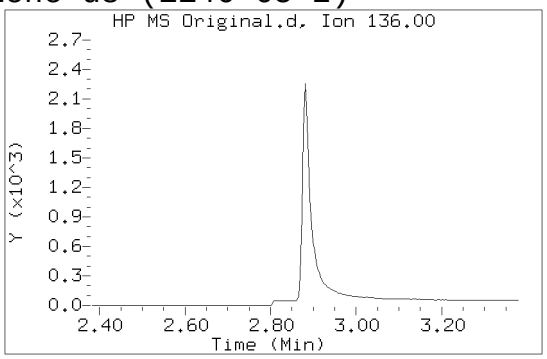


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D
Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

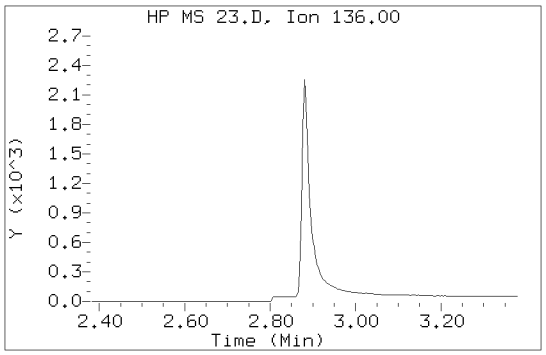
## Naphthalene-d8 (1146-65-2)

Reason Code:

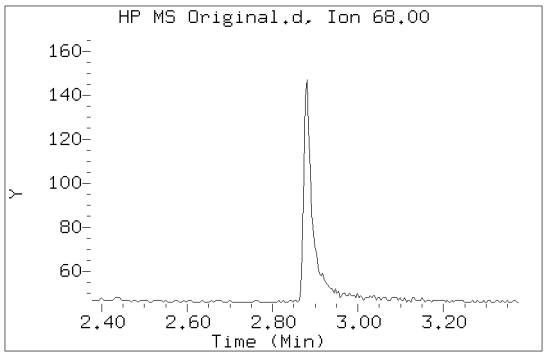
BEFORE
MASS
136
AREA
0
HEIGHT
0
29-Jun-2024
19:34
ALSHS
Server



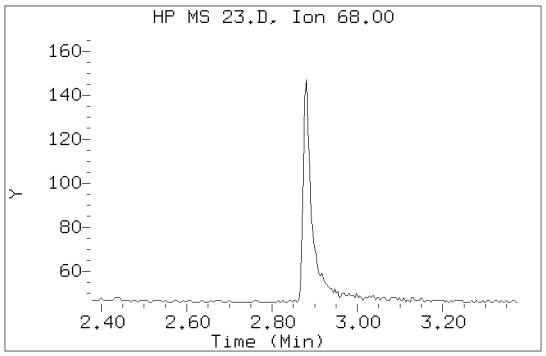

AFTER
MASS
136
AREA
6976
HEIGHT
2254
01-Jul-2024
08:34




BEFORE
MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
19:34
ALSHS
Server



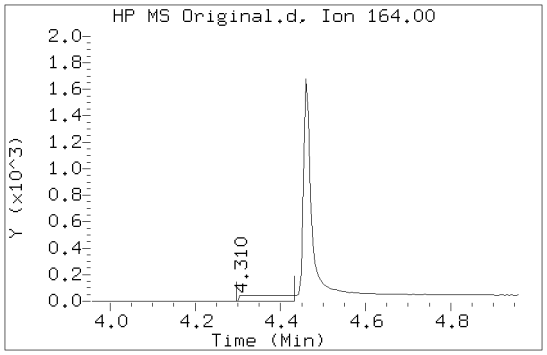

AFTER
MASS
68
AREA
0
HEIGHT
0
01-Jul-2024
08:34



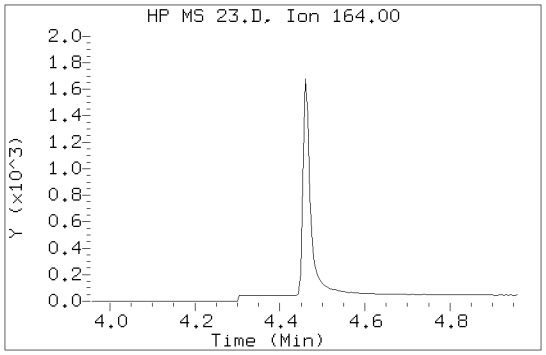

## Acenaphthene-d10 (15067-26-2)

Reason Code:

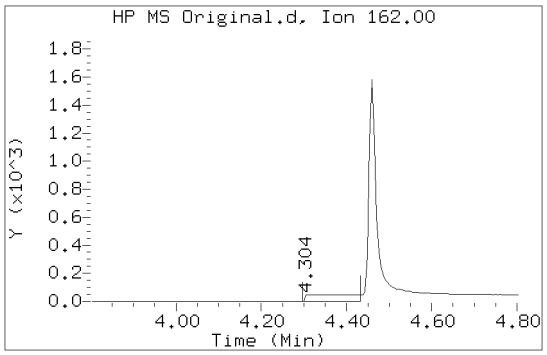
BEFORE
MASS
164
AREA
353
HEIGHT
46
29-Jun-2024
19:34
ALSHS
Server



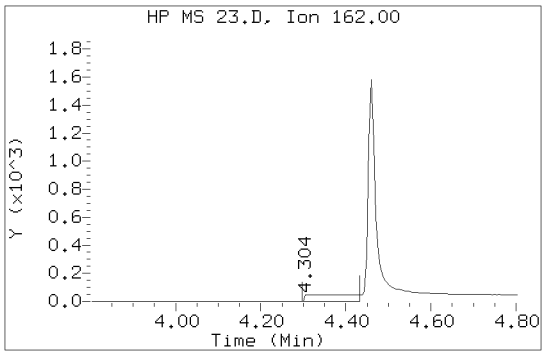

AFTER
MASS
164
AREA
2152
HEIGHT
1632
01-Jul-2024
08:34




BEFORE
MASS
162
AREA
353
HEIGHT
46
29-Jun-2024
19:34
ALSHS
Server




AFTER
MASS
162
AREA
353
HEIGHT
46
01-Jul-2024
08:34

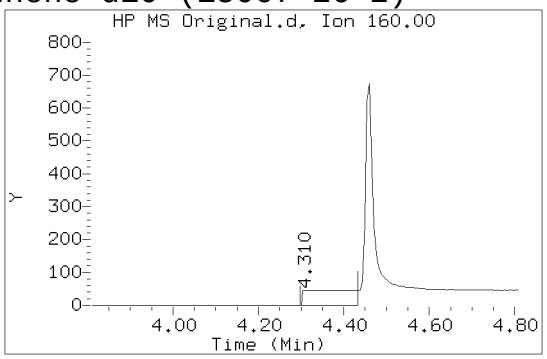


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D
Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

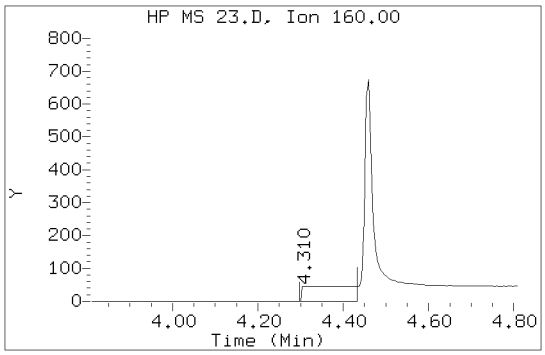
## Acenaphthene-d10 (15067-26-2)

Reason Code:

BEFORE
MASS
160
AREA
347
HEIGHT
45
29-Jun-2024
19:34
ALSHS
Server



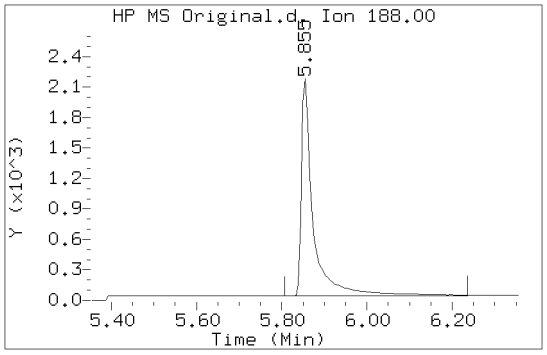

AFTER
MASS
160
AREA
347
HEIGHT
45
01-Jul-2024
08:34



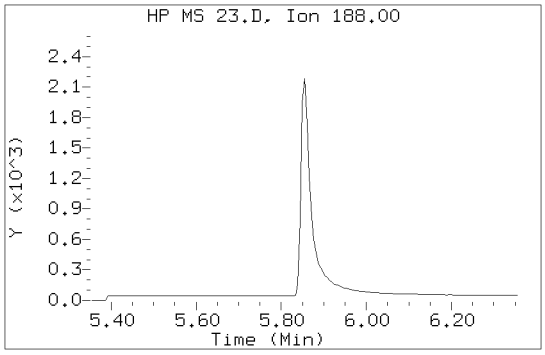

## Phenanthrene-d10 (1517-22-2)

Reason Code:

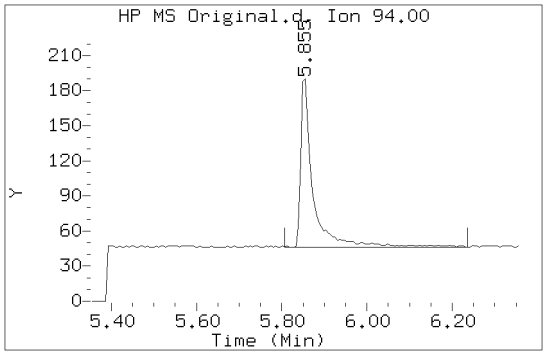
BEFORE
MASS
188
AREA
4105
HEIGHT
2138
29-Jun-2024
19:34
ALSHS
Server



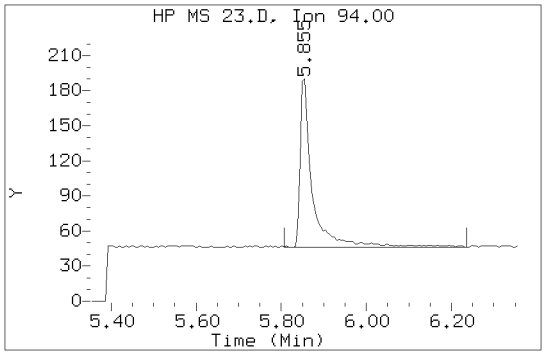

AFTER
MASS
188
AREA
6903
HEIGHT
2169
01-Jul-2024
08:34



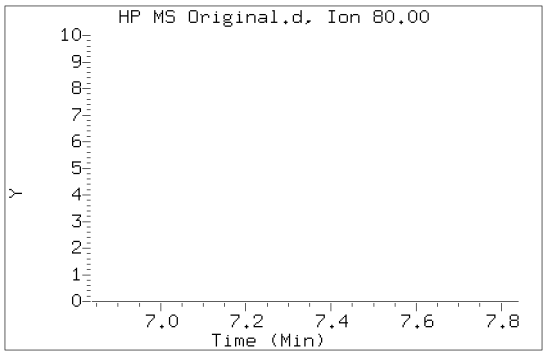

BEFORE
MASS
94
AREA
295
HEIGHT
144
29-Jun-2024
19:34
ALSHS
Server



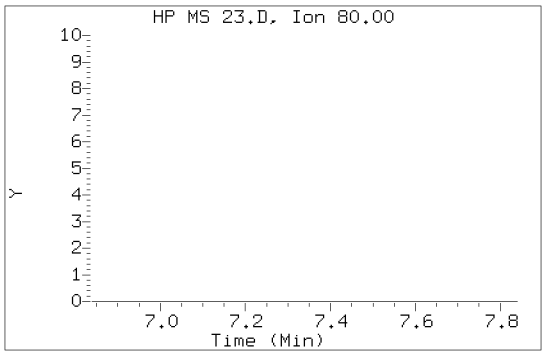

AFTER
MASS
94
AREA
295
HEIGHT
144
01-Jul-2024
08:34




BEFORE
MASS
80
AREA
0
HEIGHT
0
29-Jun-2024
19:34
ALSHS
Server




AFTER
MASS
80
AREA
0
HEIGHT
0
01-Jul-2024
08:34



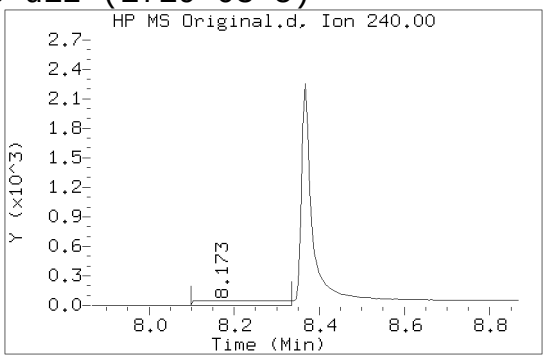
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D
Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

## Chrysene-d12 (1719-03-5)

Reason Code:

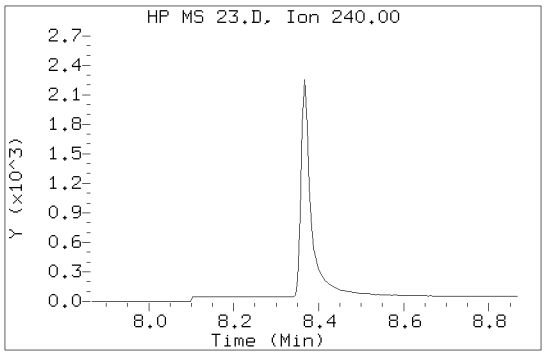
**BEFORE**

MASS
240
AREA
638
HEIGHT
46
29-Jun-2024
19:34
ALSHS
Server



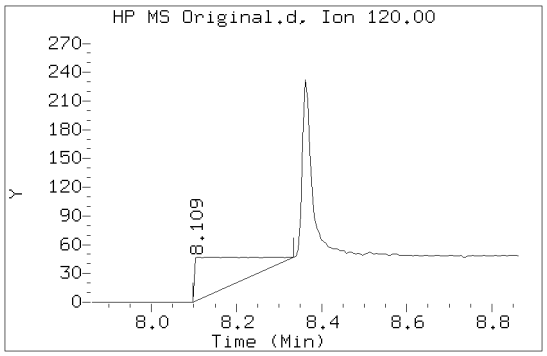

**AFTER**

MASS
240
AREA
6088
HEIGHT
2244
01-Jul-2024
08:34



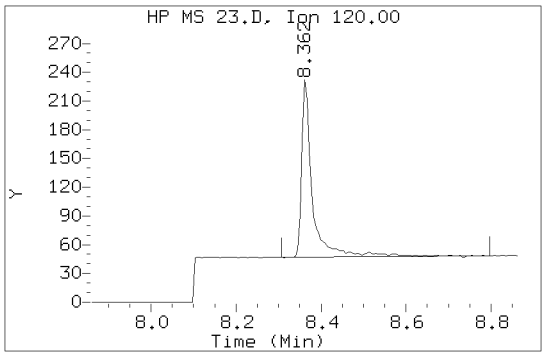

**BEFORE**

MASS
120
AREA
323
HEIGHT
44
29-Jun-2024
19:34
ALSHS
Server



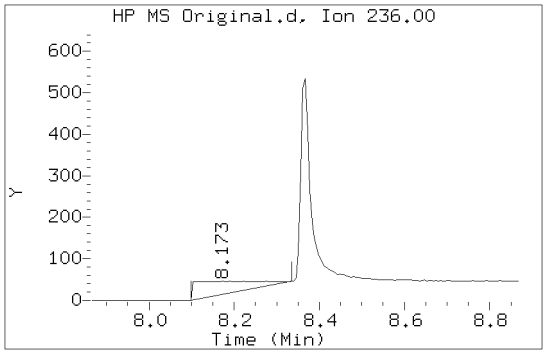

**AFTER**

MASS
120
AREA
325
HEIGHT
184
01-Jul-2024
08:34



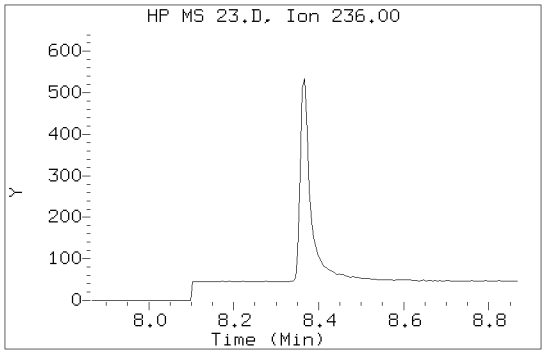

**BEFORE**

MASS
236
AREA
306
HEIGHT
31
29-Jun-2024
19:34
ALSHS
Server




**AFTER**

MASS
236
AREA
894
HEIGHT
488
01-Jul-2024
08:34

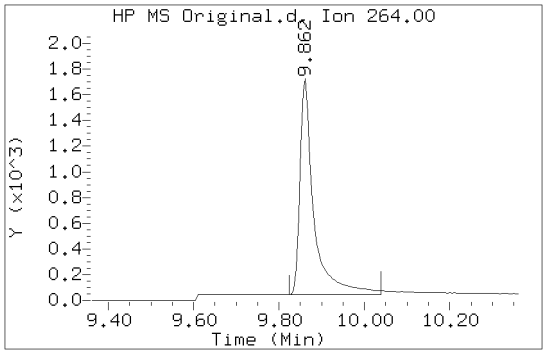



## Perylene-d12 (1520-96-3)

Reason Code:

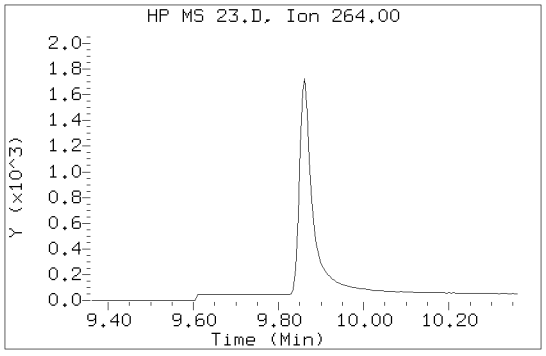
**BEFORE**

MASS
264
AREA
3817
HEIGHT
1679
29-Jun-2024
19:34
ALSHS
Server




**AFTER**

MASS
264
AREA
7898
HEIGHT
1717
01-Jul-2024
08:34

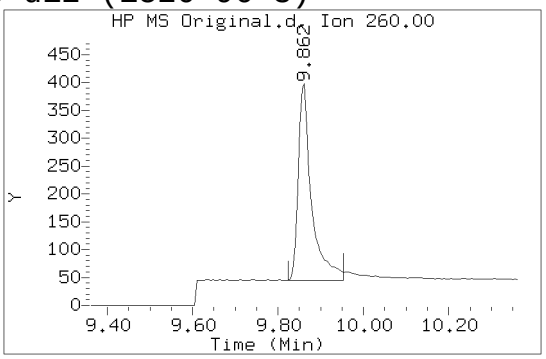


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D
Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

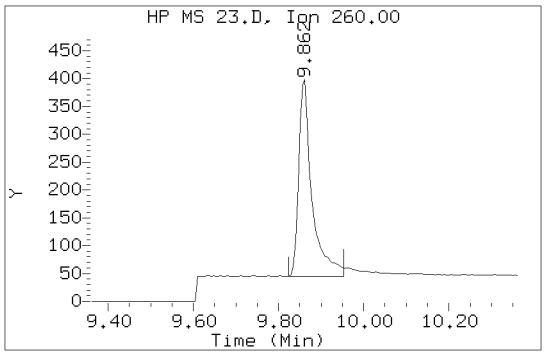
## Perylene-d12 (1520-96-3)

Reason Code:

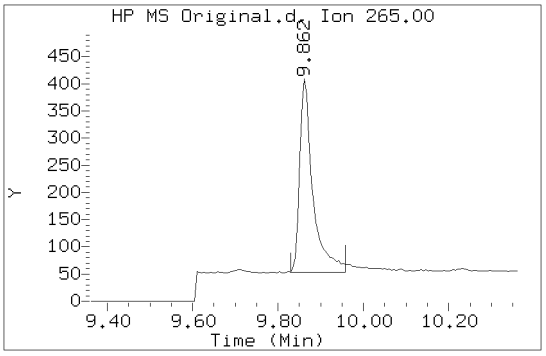
BEFORE
MASS
260
AREA
764
HEIGHT
353
29-Jun-2024
19:34
ALSHS
Server



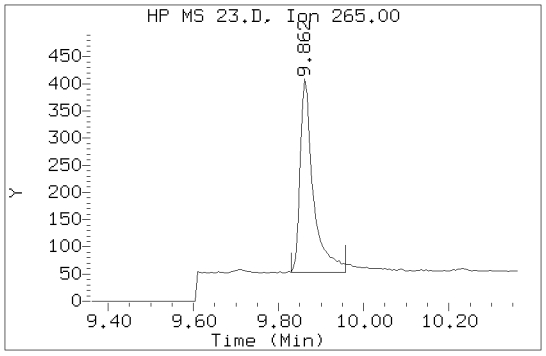

AFTER
MASS
260
AREA
764
HEIGHT
353
01-Jul-2024
08:34




BEFORE
MASS
265
AREA
769
HEIGHT
356
29-Jun-2024
19:34
ALSHS
Server



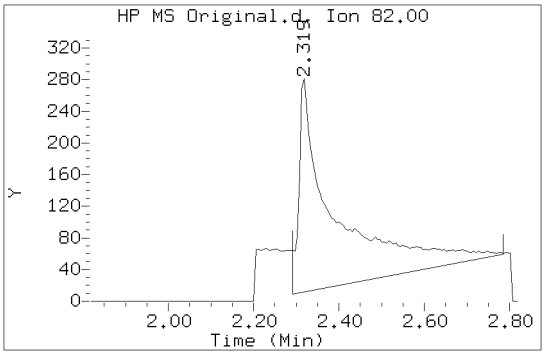

AFTER
MASS
265
AREA
769
HEIGHT
356
01-Jul-2024
08:34



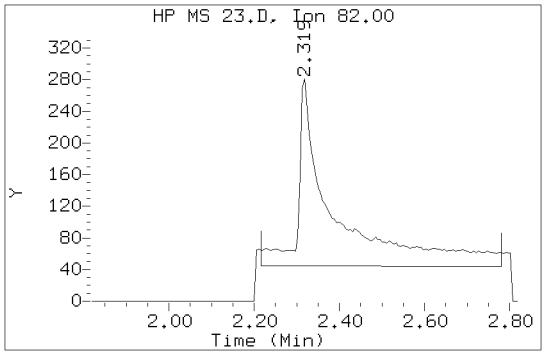

## Nitrobenzene-d5 (4165-60-0)

Reason Code:

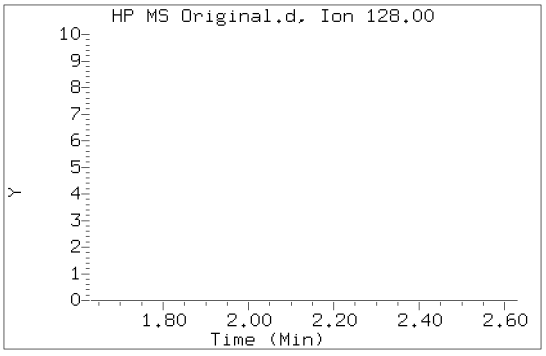
BEFORE
MASS
82
AREA
1609
HEIGHT
269
29-Jun-2024
19:34
ALSHS
Server



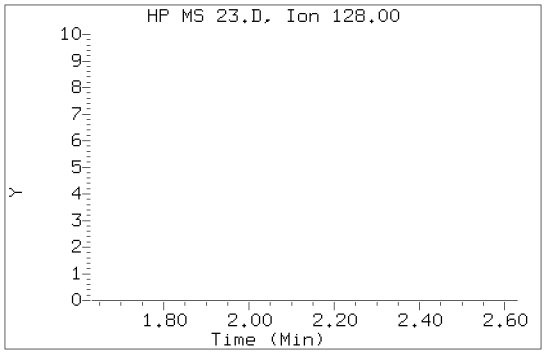

AFTER
MASS
82
AREA
1381
HEIGHT
236
01-Jul-2024
08:34




BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
19:34
ALSHS
Server




AFTER
MASS
128
AREA
0
HEIGHT
0
01-Jul-2024
08:34



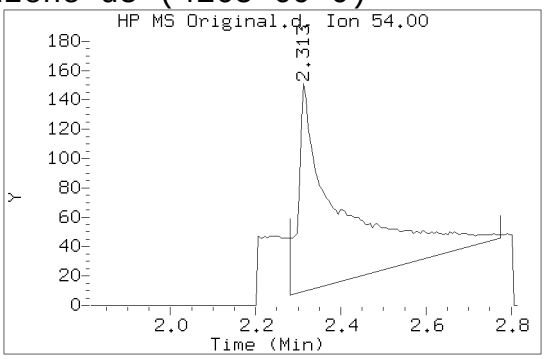
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Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

## Nitrobenzene-d5 (4165-60-0)

Reason Code:

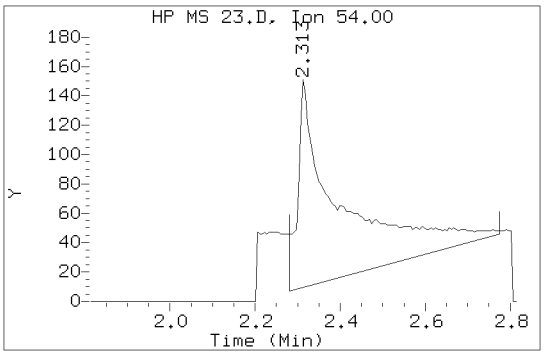
BEFORE

MASS
54
AREA
981
HEIGHT
141
29-Jun-2024
19:34
ALSHS
Server




AFTER

MASS
54
AREA
981
HEIGHT
141
01-Jul-2024
08:34

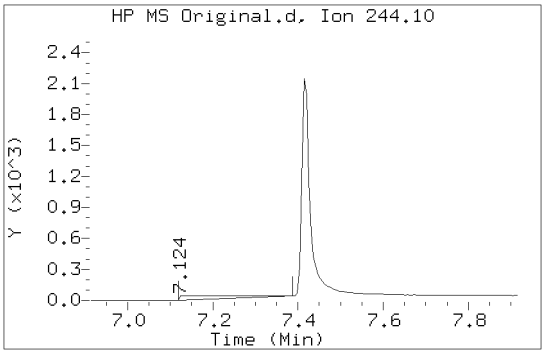



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

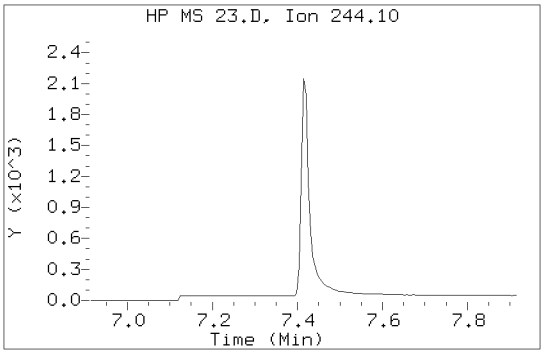
BEFORE

MASS
244.1
AREA
345
HEIGHT
44
29-Jun-2024
19:34
ALSHS
Server



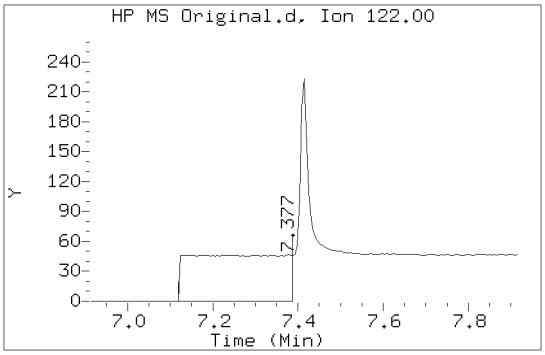

AFTER

MASS
244.1
AREA
5754
HEIGHT
2147
01-Jul-2024
08:34



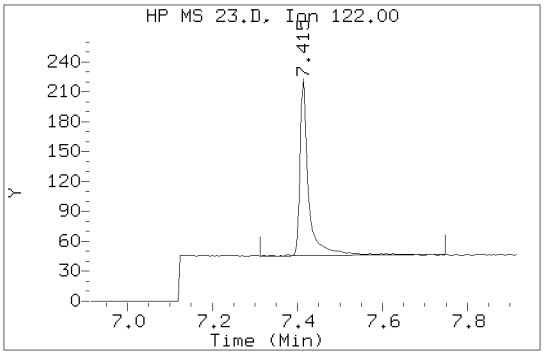

BEFORE

MASS
122
AREA
738
HEIGHT
47
29-Jun-2024
19:34
ALSHS
Server



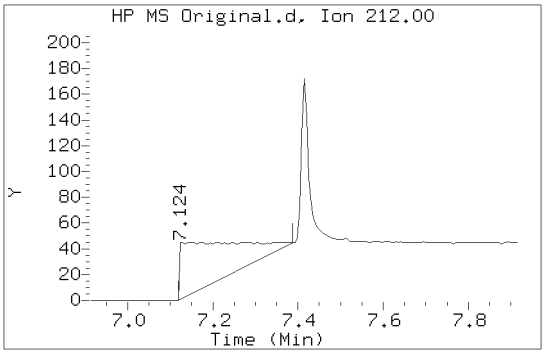

AFTER

MASS
122
AREA
249
HEIGHT
177
01-Jul-2024
08:34



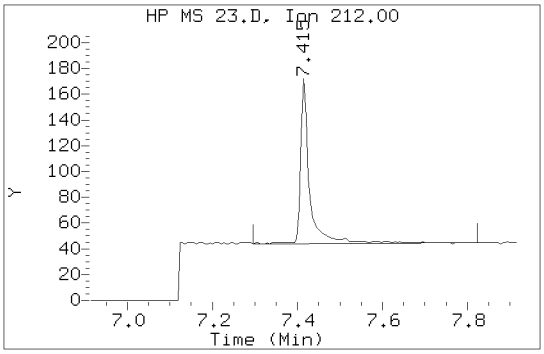

BEFORE

MASS
212
AREA
351
HEIGHT
44
29-Jun-2024
19:34
ALSHS
Server




AFTER

MASS
212
AREA
184
HEIGHT
127
01-Jul-2024
08:34

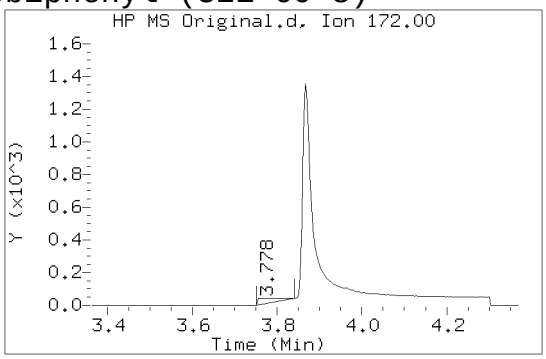


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D
Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

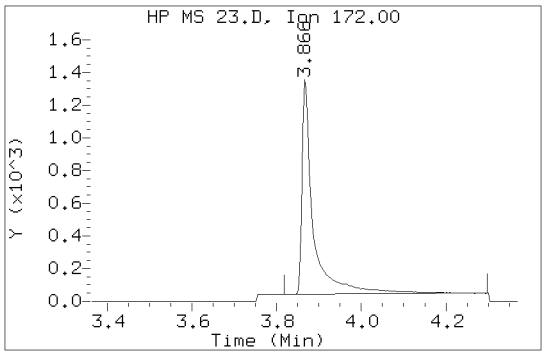
2-Fluorobiphenyl (321-60-8)

Reason Code:

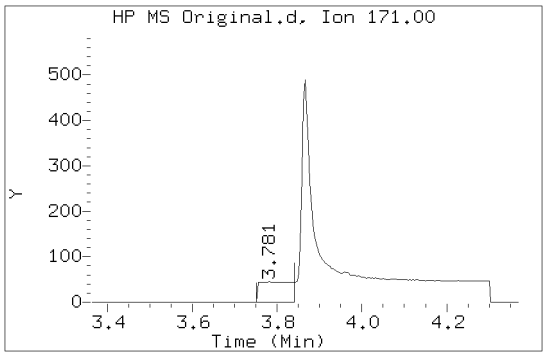
BEFORE
MASS
172
AREA
109
HEIGHT
31
29-Jun-2024
19:34
ALSHS
Server



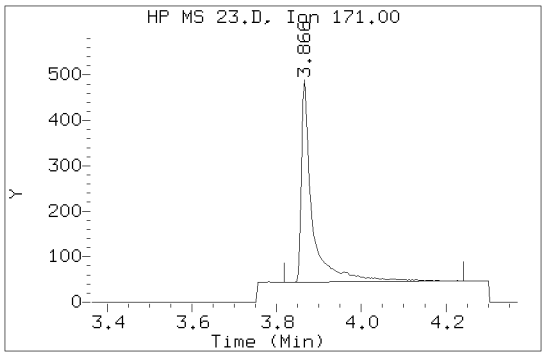

AFTER
MASS
172
AREA
2393
HEIGHT
1310
01-Jul-2024
08:34




BEFORE
MASS
171
AREA
233
HEIGHT
45
29-Jun-2024
19:34
ALSHS
Server




AFTER
MASS
171
AREA
791
HEIGHT
444
01-Jul-2024
08:34



right solutions.
right partner.

# RawData

# <textMethods>

Workorder

HS24061218

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18 24

07/26/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 18-APR-2024 10:39
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

| RT | EXP RT | DLT RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 dftpp | | | | | | CAS #: 5074-71-5 | | |
| 4.170 | 5.571 | -1.401 | 198 | 262912 | | | 0.00- 100.00 | 71.46 |
| 4.170 | 6.357 | -2.187 | 51 | 62088 | | | 10.00- 80.00 | 23.62 |
| 4.170 | 6.357 | -2.187 | 68 | 1330 | | | 0.00- 2.00 | 1.76 |
| 4.170 | 6.357 | -2.187 | 69 | 75608 | | | 0.00- 0.00 | 28.76 |
| 4.170 | 6.357 | -2.187 | 70 | 408 | | | 0.00- 2.00 | 0.54 |
| 4.170 | 6.357 | -2.187 | 127 | 104440 | | | 10.00- 80.00 | 39.72 |
| 4.170 | 6.357 | -2.187 | 197 | 996 | | | 0.00- 2.00 | 0.38 |
| 4.170 | 6.357 | -2.187 | 199 | 17632 | | | 5.00- 9.00 | 6.71 |
| 4.170 | 6.357 | -2.187 | 275 | 79880 | | | 10.00- 60.00 | 30.38 |
| 4.170 | 6.357 | -2.187 | 365 | 10437 | | | 1.00- 100.00 | 3.97 |
| 4.170 | 6.357 | -2.187 | 441 | 53968 | | | 0.01- 99.99 | 74.32 |
| 4.170 | 6.357 | -2.187 | 442 | 367904 | | | 50.00- 150.00 | 139.93 |
| 4.170 | 6.357 | -2.187 | 443 | 72612 | | | 15.00- 24.00 | 19.74 |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 198 | 23.62 |
| 68 | Less than 2.00% of mass 69 | 0.51 ( 1.76) |
| 69 | Mass 69 relative abundance | 28.76 |
| 70 | Less than 2.00% of mass 69 | 0.16 ( 0.54) |
| 127 | 10.00 - 80.00% of mass 198 | 39.72 |
| 197 | Less than 2.00% of mass 198 | 0.38 |
| 199 | 5.00 - 9.00% of mass 198 | 6.71 |
| 275 | 10.00 - 60.00% of mass 198 | 30.38 |
| 365 | 1.00 - 100.00% of mass 198 | 3.97 |
| 441 | Present, but less than mass 443 | 20.53 |
| 442 | 50.00 - 150.00% of mass 198 | 139.93 |
| 443 | 15.00 - 24.00% of mass 442 | 27.62 ( 19.74) |

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 37.00 | 244 | 129.00 | 40624 | 208.00 | 2115 | 300.00 | 77 |
| 38.00 | 784 | 130.00 | 3575 | 209.00 | 787 | 301.00 | 225 |
| 39.00 | 4091 | 131.00 | 702 | 210.00 | 691 | 302.00 | 396 |
| 40.00 | 241 | 132.00 | 334 | 211.00 | 2619 | 303.00 | 2580 |
| 41.00 | 102 | 133.00 | 85 | 212.00 | 316 | 304.00 | 619 |
| 45.00 | 185 | 134.00 | 1114 | 213.00 | 196 | 308.00 | 261 |
| 47.00 | 77 | 135.00 | 3151 | 215.00 | 724 | 309.00 | 174 |
| 49.00 | 408 | 136.00 | 1211 | 216.00 | 1479 | 310.00 | 240 |
| 50.00 | 16528 | 137.00 | 1465 | 217.00 | 18280 | 312.00 | 105 |
| 51.00 | 62088 | 138.00 | 288 | 218.00 | 2273 | 313.00 | 118 |
| 52.00 | 3211 | 139.00 | 258 | 219.00 | 275 | 314.00 | 1045 |
| 53.00 | 86 | 140.00 | 581 | 221.00 | 13468 | 315.00 | 2330 |
| 55.00 | 354 | 141.00 | 5048 | 223.00 | 4413 | 316.00 | 1380 |
| 56.00 | 2225 | 142.00 | 1704 | 224.00 | 39488 | 317.00 | 214 |
| 57.00 | 4437 | 143.00 | 1145 | 225.00 | 9861 | 321.00 | 708 |
| 58.00 | 213 | 144.00 | 319 | 226.00 | 1237 | 322.00 | 502 |
| 59.00 | 93 | 145.00 | 259 | 227.00 | 15741 | 323.00 | 7637 |
| 61.00 | 820 | 146.00 | 847 | 228.00 | 2192 | 324.00 | 1248 |
| 62.00 | 996 | 147.00 | 2610 | 229.00 | 3406 | 325.00 | 83 |
| 63.00 | 2992 | 148.00 | 5531 | 230.00 | 654 | 326.00 | 213 |
| 64.00 | 404 | 149.00 | 1260 | 231.00 | 1395 | 327.00 | 1339 |
| 65.00 | 1489 | 150.00 | 306 | 232.00 | 263 | 328.00 | 739 |
| 66.00 | 77 | 151.00 | 689 | 233.00 | 369 | 329.00 | 197 |
| 68.00 | 1330 | 152.00 | 397 | 234.00 | 998 | 332.00 | 530 |
| 69.00 | 75608 | 153.00 | 1674 | 235.00 | 1288 | 333.00 | 729 |
| 70.00 | 408 | 154.00 | 1331 | 236.00 | 713 | 334.00 | 5116 |
| 73.00 | 520 | 155.00 | 2941 | 237.00 | 1314 | 335.00 | 1387 |
| 74.00 | 7472 | 156.00 | 4519 | 238.00 | 197 | 336.00 | 81 |
| 75.00 | 12234 | 157.00 | 943 | 239.00 | 654 | 339.00 | 89 |
| 76.00 | 4036 | 158.00 | 851 | 240.00 | 561 | 341.00 | 826 |
| 77.00 | 79680 | 159.00 | 842 | 241.00 | 1046 | 342.00 | 249 |
| 78.00 | 5168 | 160.00 | 1695 | 242.00 | 2012 | 346.00 | 1618 |
| 79.00 | 5702 | 161.00 | 2544 | 243.00 | 2294 | 347.00 | 364 |
| 80.00 | 4359 | 162.00 | 776 | 244.00 | 32624 | 351.00 | 166 |
| 81.00 | 6057 | 163.00 | 166 | 245.00 | 4479 | 352.00 | 2331 |
| 82.00 | 1737 | 164.00 | 285 | 246.00 | 5704 | 353.00 | 1469 |
| 83.00 | 1343 | 165.00 | 2024 | 247.00 | 1212 | 354.00 | 2530 |
| 84.00 | 162 | 166.00 | 1773 | 248.00 | 329 | 355.00 | 561 |
| 85.00 | 1154 | 167.00 | 10349 | 249.00 | 1270 | 359.00 | 260 |
| 86.00 | 1464 | 168.00 | 4423 | 250.00 | 278 | 364.00 | 112 |
| 87.00 | 753 | 169.00 | 868 | 251.00 | 337 | 365.00 | 10437 |
| 88.00 | 337 | 170.00 | 367 | 252.00 | 432 | 366.00 | 1414 |
| 89.00 | 75 | 171.00 | 514 | 253.00 | 740 | 367.00 | 75 |
| 91.00 | 1569 | 172.00 | 960 | 255.00 | 170688 | 370.00 | 233 |
| 92.00 | 1659 | 173.00 | 1497 | 256.00 | 25096 | 371.00 | 588 |

| | | | |
|---|---|---|---|
| 93.00 10069 | 174.00 2141 | 257.00 1983 | 372.00 4617 |
| 94.00 680 | 175.00 4519 | 258.00 8939 | 373.00 1106 |
| 95.00 92 | 176.00 1409 | 259.00 1582 | 383.00 1150 |
| 96.00 425 | 177.00 2174 | 260.00 250 | 384.00 378 |
| 97.00 199 | 178.00 726 | 261.00 243 | 385.00 83 |
| 98.00 7421 | 179.00 8742 | 264.00 295 | 390.00 634 |
| 99.00 5189 | 180.00 5928 | 265.00 3703 | 391.00 442 |
| 100.00 450 | 181.00 2765 | 266.00 604 | 392.00 339 |
| 101.00 3694 | 182.00 411 | 270.00 214 | 401.00 178 |
| 102.00 194 | 183.00 299 | 271.00 344 | 402.00 1827 |
| 103.00 1310 | 184.00 735 | 272.00 599 | 403.00 2559 |
| 104.00 2350 | 185.00 4557 | 273.00 5441 | 404.00 850 |
| 105.00 2071 | 186.00 34080 | 274.00 13783 | 405.00 78 |
| 106.00 852 | 187.00 9952 | 275.00 79880 | 415.00 111 |
| 107.00 28048 | 188.00 866 | 276.00 10609 | 421.00 2499 |
| 108.00 4375 | 189.00 2159 | 277.00 6056 | 422.00 2422 |
| 109.00 546 | 190.00 335 | 278.00 997 | 423.00 17496 |
| 110.00 51232 | 191.00 1054 | 279.00 109 | 424.00 3958 |
| 111.00 8170 | 192.00 2816 | 281.00 100 | 425.00 349 |
| 112.00 914 | 193.00 3142 | 282.00 278 | 435.00 169 |
| 113.00 342 | 194.00 666 | 283.00 828 | 436.00 426 |
| 116.00 1637 | 195.00 610 | 284.00 410 | 437.00 287 |
| 117.00 21584 | 196.00 8042 | 285.00 1021 | 438.00 177 |
| 118.00 1450 | 197.00 996 | 286.00 242 | 439.00 927 |
| 119.00 133 | 198.00 262912 | 289.00 253 | 441.00 53968 |
| 120.00 336 | 199.00 17632 | 290.00 222 | 442.00 367872 |
| 121.00 78 | 200.00 1329 | 291.00 150 | 443.00 72608 |
| 122.00 1884 | 201.00 1426 | 292.00 373 | 444.00 7175 |
| 123.00 3095 | 203.00 1983 | 293.00 1312 | 445.00 468 |
| 124.00 1181 | 204.00 9352 | 294.00 366 | |
| 125.00 1276 | 205.00 16075 | 296.00 20920 | |
| 127.00 104440 | 206.00 67752 | 297.00 2863 | |
| 128.00 7946 | 207.00 8670 | 298.00 101 | |

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 1

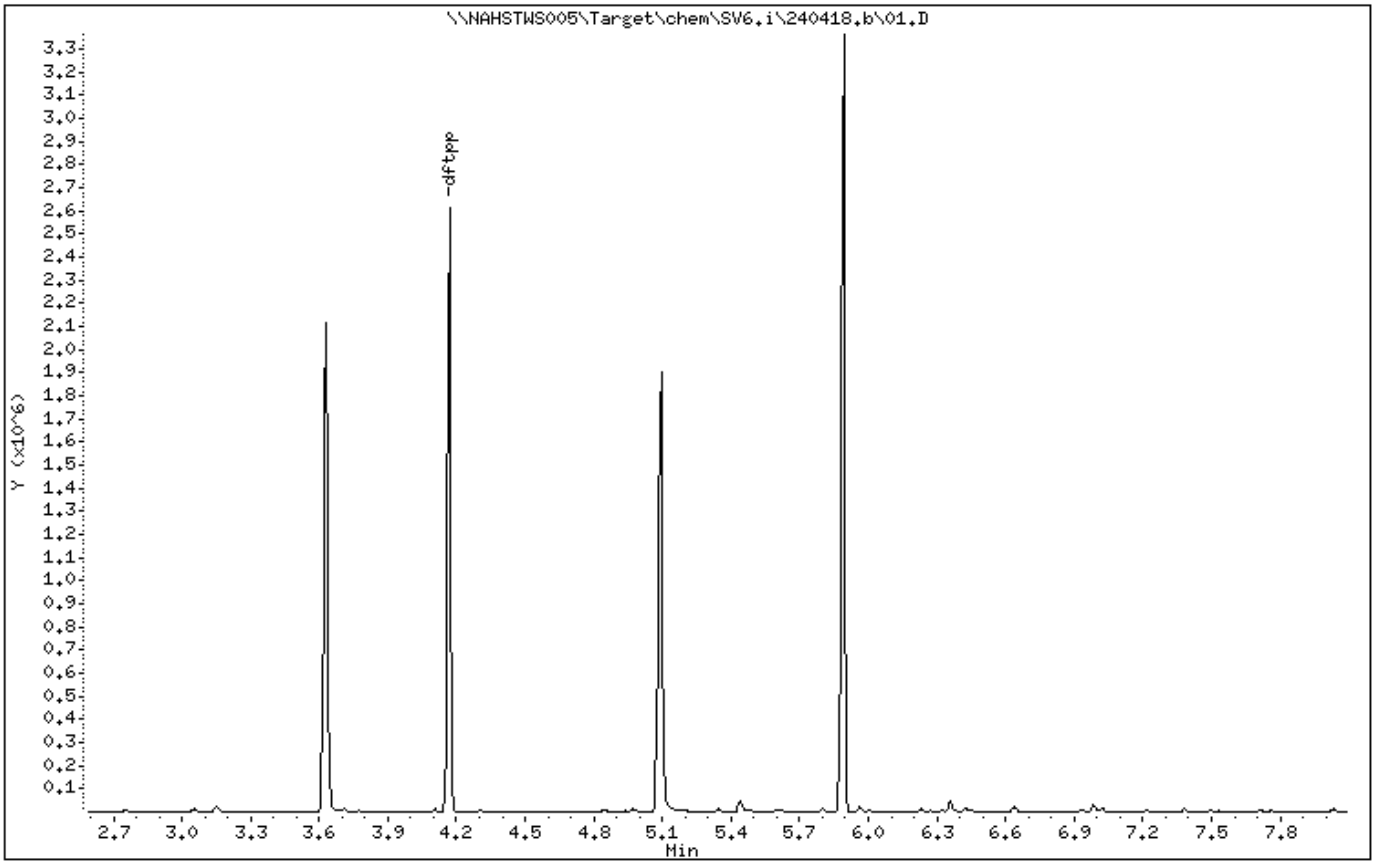
Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 2

Date : 18-APR-2024 10:39

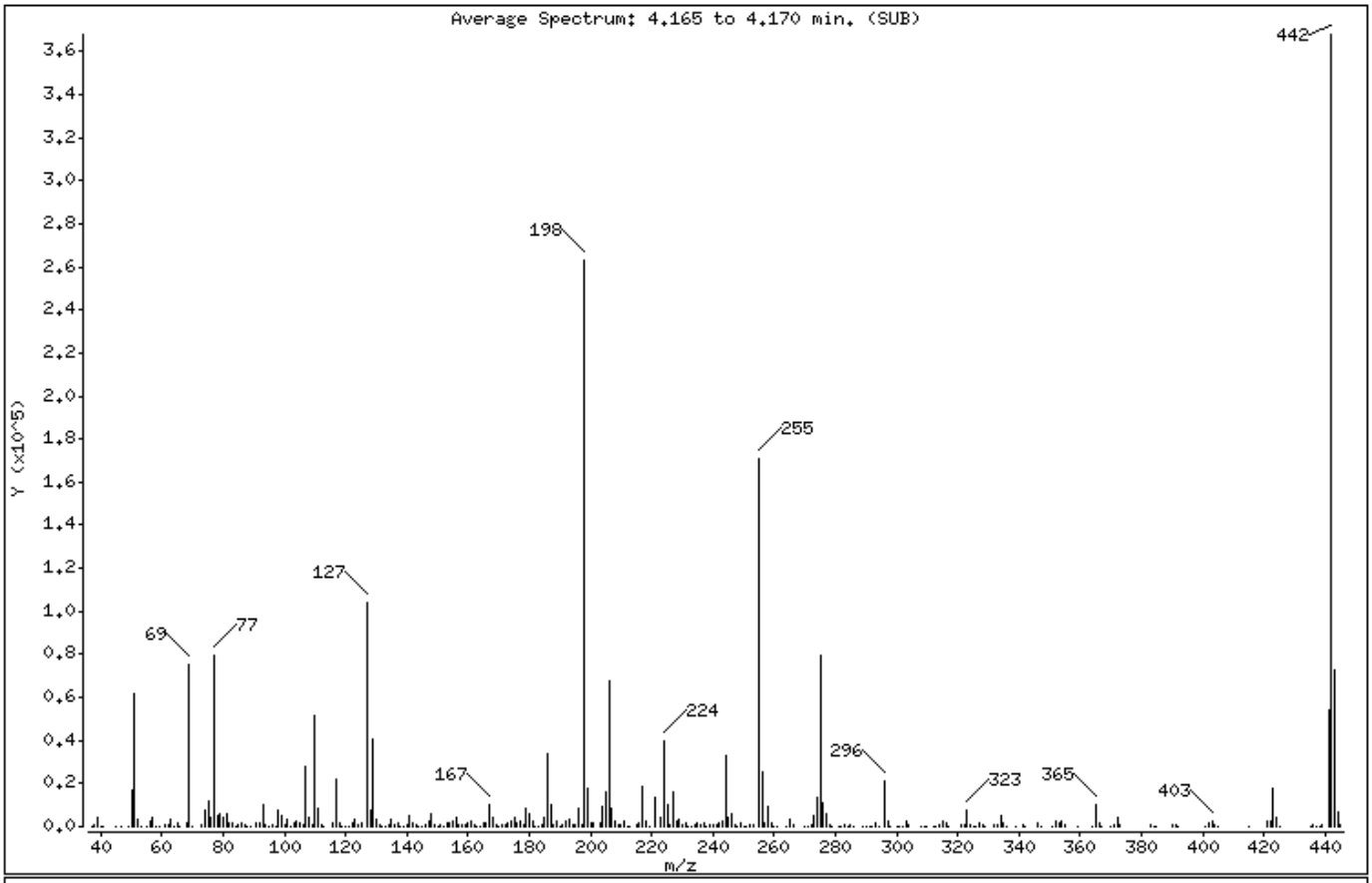
Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

1 dftpp




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 198 | 23.62 |
| 68 | Less than 2.00% of mass 69 | 0.51 ( 1.76) |
| 69 | Mass 69 relative abundance | 28.76 |
| 70 | Less than 2.00% of mass 69 | 0.16 ( 0.54) |
| 127 | 10.00 - 80.00% of mass 198 | 39.72 |
| 197 | Less than 2.00% of mass 198 | 0.38 |
| 199 | 5.00 - 9.00% of mass 198 | 6.71 |
| 275 | 10.00 - 60.00% of mass 198 | 30.38 |
| 365 | 1.00 - 100.00% of mass 198 | 3.97 |
| 441 | Present, but less than mass 443 | 20.53 |
| 442 | 50.00 - 150.00% of mass 198 | 139.93 |
| 443 | 15.00 - 24.00% of mass 442 | 27.62 ( 19.74) |

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 3

Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 37.00 | 244 | 129.00 | 40624 | 208.00 | 2115 | 300.00 | 77 |
| 38.00 | 784 | 130.00 | 3575 | 209.00 | 787 | 301.00 | 225 |
| 39.00 | 4091 | 131.00 | 702 | 210.00 | 691 | 302.00 | 396 |
| 40.00 | 241 | 132.00 | 334 | 211.00 | 2619 | 303.00 | 2580 |
| 41.00 | 102 | 133.00 | 85 | 212.00 | 316 | 304.00 | 619 |
| 45.00 | 185 | 134.00 | 1114 | 213.00 | 196 | 308.00 | 261 |
| 47.00 | 77 | 135.00 | 3151 | 215.00 | 724 | 309.00 | 174 |
| 49.00 | 408 | 136.00 | 1211 | 216.00 | 1479 | 310.00 | 240 |
| 50.00 | 16528 | 137.00 | 1465 | 217.00 | 18280 | 312.00 | 105 |
| 51.00 | 62088 | 138.00 | 288 | 218.00 | 2273 | 313.00 | 118 |
| 52.00 | 3211 | 139.00 | 258 | 219.00 | 275 | 314.00 | 1045 |
| 53.00 | 86 | 140.00 | 581 | 221.00 | 13468 | 315.00 | 2330 |
| 55.00 | 354 | 141.00 | 5048 | 223.00 | 4413 | 316.00 | 1380 |
| 56.00 | 2225 | 142.00 | 1704 | 224.00 | 39488 | 317.00 | 214 |
| 57.00 | 4437 | 143.00 | 1145 | 225.00 | 9861 | 321.00 | 708 |
| 58.00 | 213 | 144.00 | 319 | 226.00 | 1237 | 322.00 | 502 |
| 59.00 | 93 | 145.00 | 259 | 227.00 | 15741 | 323.00 | 7637 |
| 61.00 | 820 | 146.00 | 847 | 228.00 | 2192 | 324.00 | 1248 |
| 62.00 | 996 | 147.00 | 2610 | 229.00 | 3406 | 325.00 | 83 |
| 63.00 | 2992 | 148.00 | 5531 | 230.00 | 654 | 326.00 | 213 |
| 64.00 | 404 | 149.00 | 1260 | 231.00 | 1395 | 327.00 | 1339 |
| 65.00 | 1489 | 150.00 | 306 | 232.00 | 263 | 328.00 | 739 |
| 66.00 | 77 | 151.00 | 689 | 233.00 | 369 | 329.00 | 197 |
| 68.00 | 1330 | 152.00 | 397 | 234.00 | 998 | 332.00 | 530 |
| 69.00 | 75608 | 153.00 | 1674 | 235.00 | 1288 | 333.00 | 729 |
| 70.00 | 408 | 154.00 | 1331 | 236.00 | 713 | 334.00 | 5116 |
| 73.00 | 520 | 155.00 | 2941 | 237.00 | 1314 | 335.00 | 1387 |
| 74.00 | 7472 | 156.00 | 4519 | 238.00 | 197 | 336.00 | 81 |
| 75.00 | 12234 | 157.00 | 943 | 239.00 | 654 | 339.00 | 89 |
| 76.00 | 4036 | 158.00 | 851 | 240.00 | 561 | 341.00 | 826 |
| 77.00 | 79680 | 159.00 | 842 | 241.00 | 1046 | 342.00 | 249 |
| 78.00 | 5168 | 160.00 | 1695 | 242.00 | 2012 | 346.00 | 1618 |
| 79.00 | 5702 | 161.00 | 2544 | 243.00 | 2294 | 347.00 | 364 |
| 80.00 | 4359 | 162.00 | 776 | 244.00 | 32624 | 351.00 | 166 |
| 81.00 | 6057 | 163.00 | 166 | 245.00 | 4479 | 352.00 | 2331 |

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 4

Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 82.00 | 1737 | 164.00 | 285 | 246.00 | 5704 | 353.00 | 1469 |
| 83.00 | 1343 | 165.00 | 2024 | 247.00 | 1212 | 354.00 | 2530 |
| 84.00 | 162 | 166.00 | 1773 | 248.00 | 329 | 355.00 | 561 |
| 85.00 | 1154 | 167.00 | 10349 | 249.00 | 1270 | 359.00 | 260 |
| 86.00 | 1464 | 168.00 | 4423 | 250.00 | 278 | 364.00 | 112 |
| 87.00 | 753 | 169.00 | 868 | 251.00 | 337 | 365.00 | 10437 |
| 88.00 | 337 | 170.00 | 367 | 252.00 | 432 | 366.00 | 1414 |
| 89.00 | 75 | 171.00 | 514 | 253.00 | 740 | 367.00 | 75 |
| 91.00 | 1569 | 172.00 | 960 | 255.00 | 170688 | 370.00 | 233 |
| 92.00 | 1659 | 173.00 | 1497 | 256.00 | 25096 | 371.00 | 588 |
| 93.00 | 10069 | 174.00 | 2141 | 257.00 | 1983 | 372.00 | 4617 |
| 94.00 | 680 | 175.00 | 4519 | 258.00 | 8939 | 373.00 | 1106 |
| 95.00 | 92 | 176.00 | 1409 | 259.00 | 1582 | 383.00 | 1150 |
| 96.00 | 425 | 177.00 | 2174 | 260.00 | 250 | 384.00 | 378 |
| 97.00 | 199 | 178.00 | 726 | 261.00 | 243 | 385.00 | 83 |
| 98.00 | 7421 | 179.00 | 8742 | 264.00 | 295 | 390.00 | 634 |
| 99.00 | 5189 | 180.00 | 5928 | 265.00 | 3703 | 391.00 | 442 |
| 100.00 | 450 | 181.00 | 2765 | 266.00 | 604 | 392.00 | 339 |
| 101.00 | 3694 | 182.00 | 411 | 270.00 | 214 | 401.00 | 178 |
| 102.00 | 194 | 183.00 | 299 | 271.00 | 344 | 402.00 | 1827 |
| 103.00 | 1310 | 184.00 | 735 | 272.00 | 599 | 403.00 | 2559 |
| 104.00 | 2350 | 185.00 | 4557 | 273.00 | 5441 | 404.00 | 850 |
| 105.00 | 2071 | 186.00 | 34080 | 274.00 | 13783 | 405.00 | 78 |
| 106.00 | 852 | 187.00 | 9952 | 275.00 | 79880 | 415.00 | 111 |
| 107.00 | 28048 | 188.00 | 866 | 276.00 | 10609 | 421.00 | 2499 |
| 108.00 | 4375 | 189.00 | 2159 | 277.00 | 6056 | 422.00 | 2422 |
| 109.00 | 546 | 190.00 | 335 | 278.00 | 997 | 423.00 | 17496 |
| 110.00 | 51232 | 191.00 | 1054 | 279.00 | 109 | 424.00 | 3958 |
| 111.00 | 8170 | 192.00 | 2816 | 281.00 | 100 | 425.00 | 349 |
| 112.00 | 914 | 193.00 | 3142 | 282.00 | 278 | 435.00 | 169 |
| 113.00 | 342 | 194.00 | 666 | 283.00 | 828 | 436.00 | 426 |
| 116.00 | 1637 | 195.00 | 610 | 284.00 | 410 | 437.00 | 287 |
| 117.00 | 21584 | 196.00 | 8042 | 285.00 | 1021 | 438.00 | 177 |
| 118.00 | 1450 | 197.00 | 996 | 286.00 | 242 | 439.00 | 927 |
| 119.00 | 133 | 198.00 | 262912 | 289.00 | 253 | 441.00 | 53968 |

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 5

Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 120.00 | 336 | 199.00 | 17632 | 290.00 | 222 | 442.00 | 367872 |
| 121.00 | 78 | 200.00 | 1329 | 291.00 | 150 | 443.00 | 72608 |
| 122.00 | 1884 | 201.00 | 1426 | 292.00 | 373 | 444.00 | 7175 |
| 123.00 | 3095 | 203.00 | 1983 | 293.00 | 1312 | 445.00 | 468 |
| 124.00 | 1181 | 204.00 | 9352 | 294.00 | 366 | | |
| 125.00 | 1276 | 205.00 | 16075 | 296.00 | 20920 | | |
| 127.00 | 104440 | 206.00 | 67752 | 297.00 | 2863 | | |
| 128.00 | 7946 | 207.00 | 8670 | 298.00 | 101 | | |

Data File : \\nahstws005\target\chem\sv6.i\240418.b\01.d
Inj Date  : 18-APR-2024 10:39
InstruID  : SV6.i
LabSampID : DFTPP

NO MANUAL INTEGRATIONS

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 18-APR-2024 12:24
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 12:24 Cal File: 03A.D
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | AMOUNTS ON-COL ( NG) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 2.089 | 2.089 | (1.000) | 3251 | 0.10000 | (aQM) |
| * 45 Naphthalene-d8 | 136 | 3.076 | 3.076 | (1.000) | 10577 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.497 | 2.502 | (0.812) | 2161 | 0.08000 | 0.06806(M) |
| * 86 Acenaphthene-d10 | 164 | 4.665 | 4.671 | (1.000) | 6678 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 4.064 | 4.067 | (0.871) | 6691 | 0.08000 | 0.06554(M) |
| * 126 Phenanthrene-d10 | 188 | 6.066 | 6.065 | (1.000) | 13232 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 8.604 | 8.599 | (1.000) | 12125 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.636 | 7.630 | (0.887) | 14251 | 0.08000 | 0.05769(M) |
| * 198 Perylene-d12 | 264 | 10.195 | 10.189 | (1.000) | 11098 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 0.834 | 0.820 | (0.400) | 503 | 0.08000 | 0.07223(QM) |

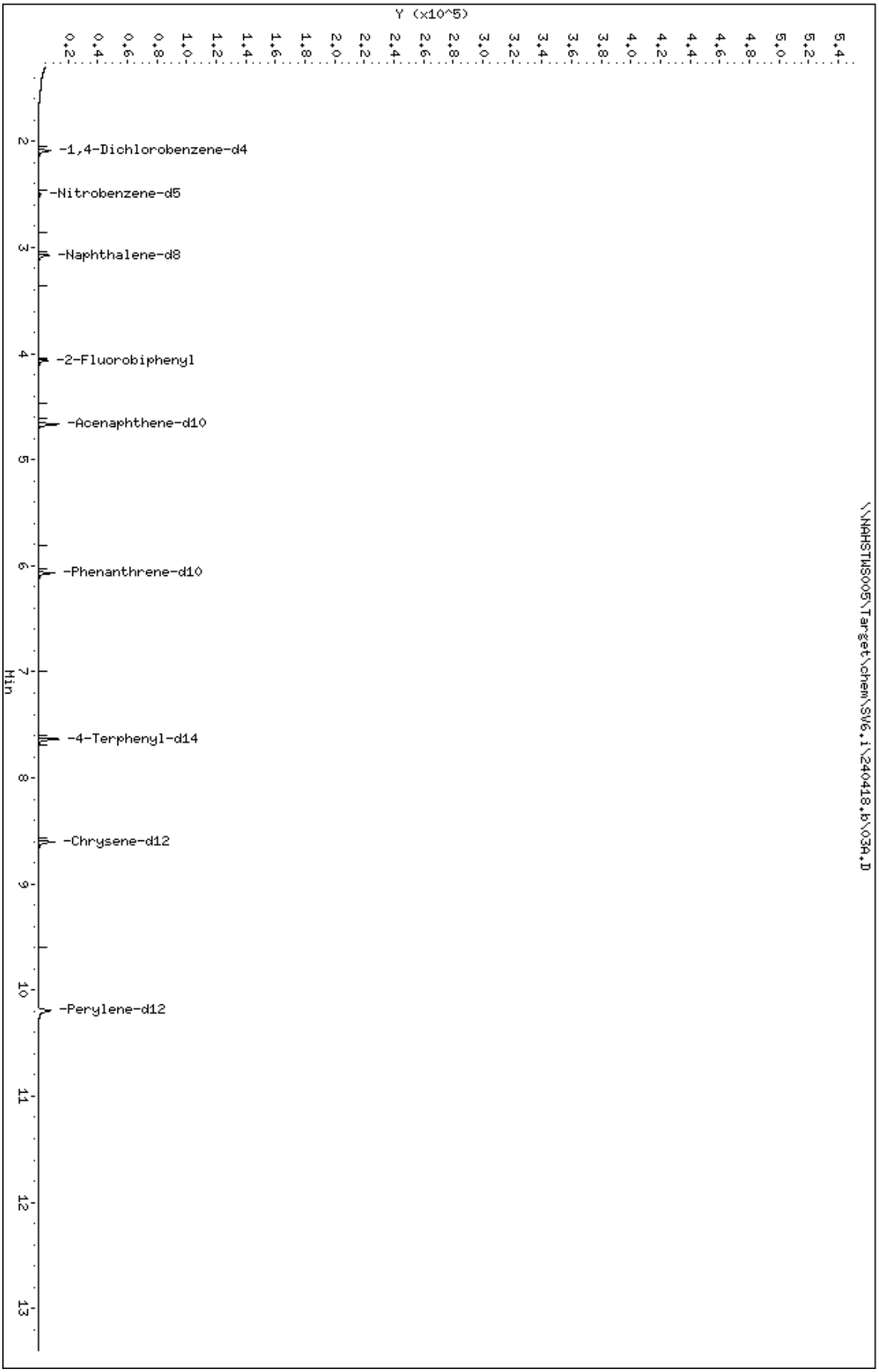
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Date : 18-APR-2024 12:24
Client ID: 14DX-0.08
Sample Info: 14DX-0.08
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



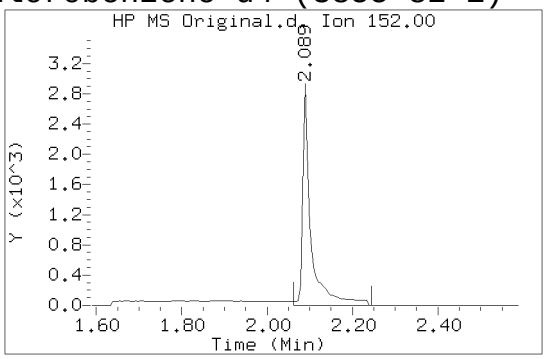


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

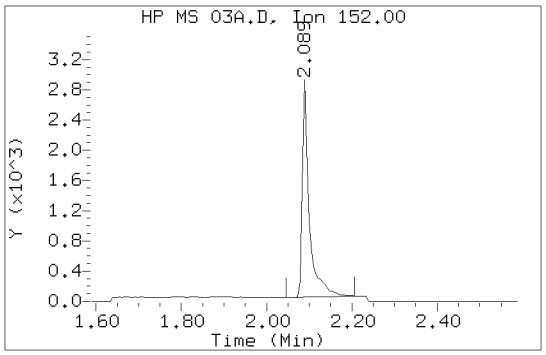
## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

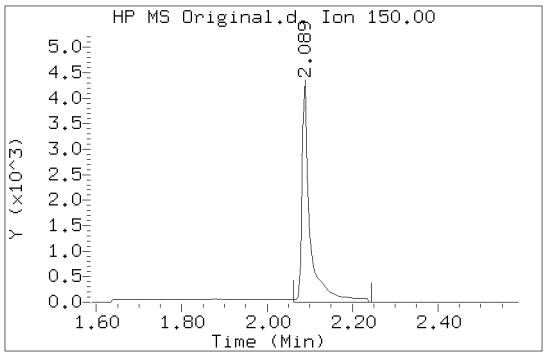
BEFORE
MASS
152
AREA
3915
HEIGHT
2934
18-Apr-2024
12:42
ALSHS
Server



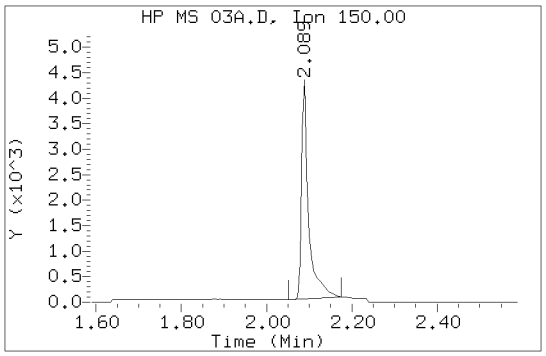

AFTER
MASS
152
AREA
3251
HEIGHT
2876
28-May-2024
13:05



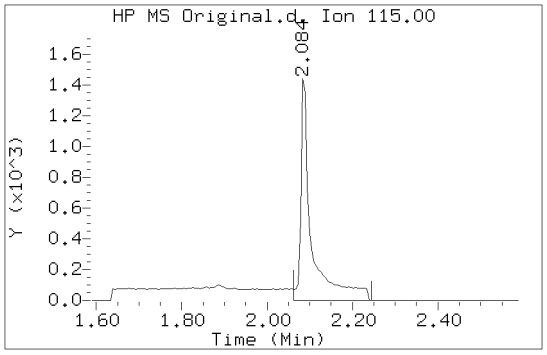

BEFORE
MASS
150
AREA
5788
HEIGHT
4359
18-Apr-2024
12:42
ALSHS
Server



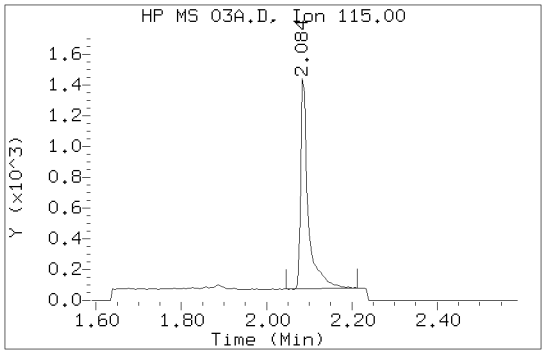

AFTER
MASS
150
AREA
4924
HEIGHT
4290
28-May-2024
13:05




BEFORE
MASS
115
AREA
2519
HEIGHT
1442
18-Apr-2024
12:42
ALSHS
Server



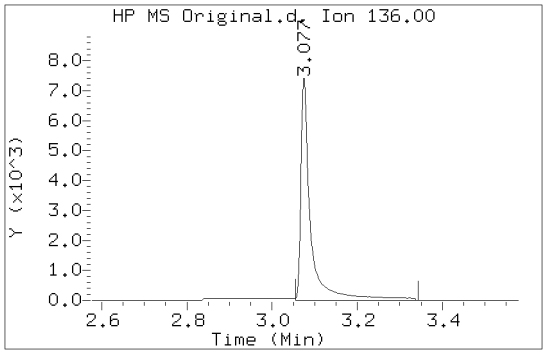

AFTER
MASS
115
AREA
1685
HEIGHT
1365
28-May-2024
13:05



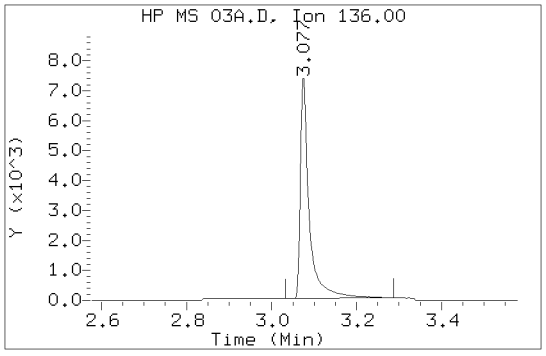

## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
11842
HEIGHT
7402
18-Apr-2024
12:42
ALSHS
Server




AFTER
MASS
136
AREA
10577
HEIGHT
7340
28-May-2024
13:05



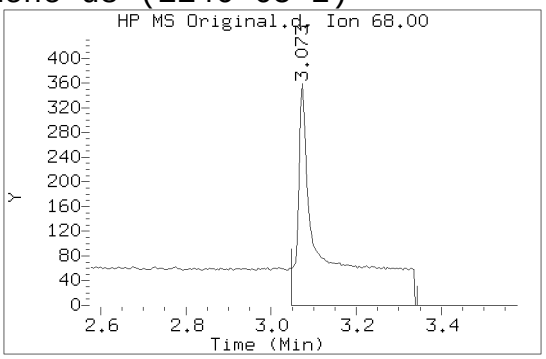
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

## Naphthalene-d8 (1146-65-2)

Reason Code:

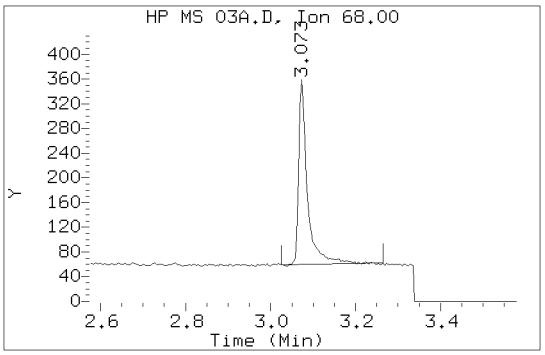
BEFORE

MASS
68
AREA
1473
HEIGHT
359
18-Apr-2024
12:42
ALSHS
Server




AFTER

MASS
68
AREA
417
HEIGHT
299
28-May-2024
13:05

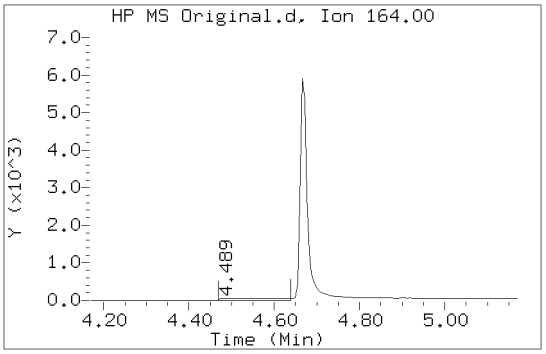



## Acenaphthene-d10 (15067-26-2)

Reason Code:

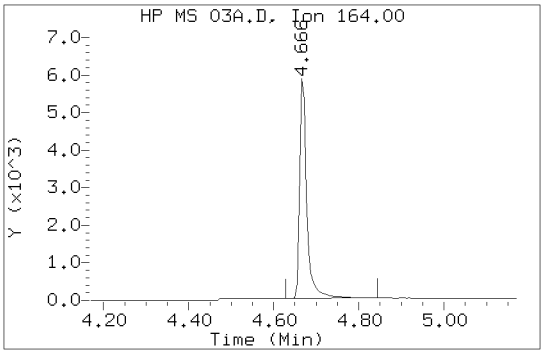
BEFORE

MASS
164
AREA
527
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server



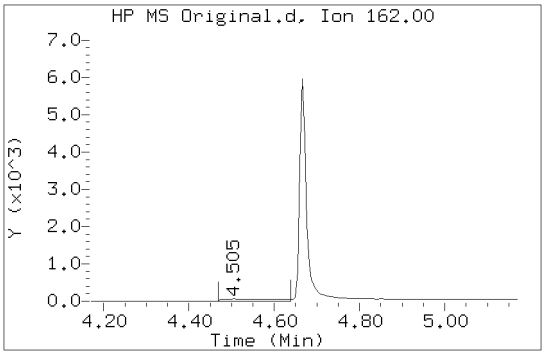

AFTER

MASS
164
AREA
6678
HEIGHT
5851
28-May-2024
13:05



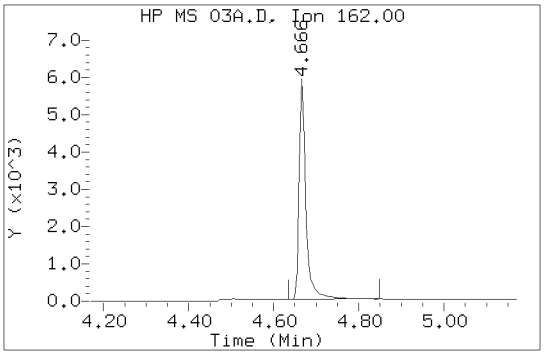

BEFORE

MASS
162
AREA
540
HEIGHT
61
18-Apr-2024
12:42
ALSHS
Server



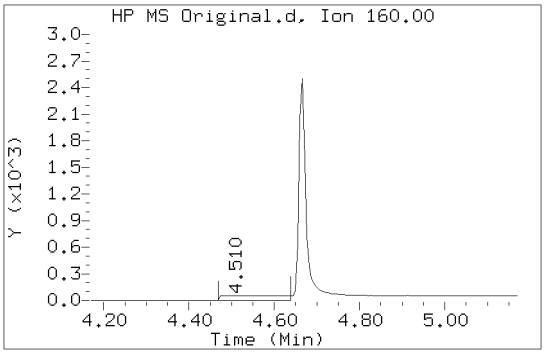

AFTER

MASS
162
AREA
6371
HEIGHT
5906
28-May-2024
13:05



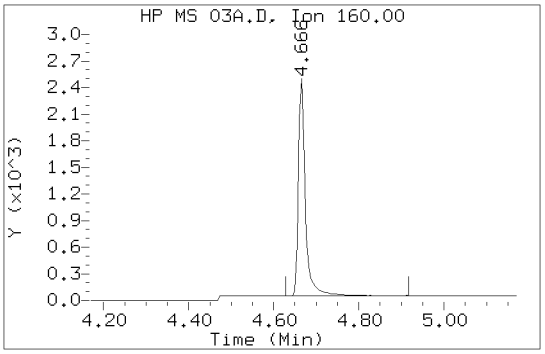

BEFORE

MASS
160
AREA
507
HEIGHT
51
18-Apr-2024
12:42
ALSHS
Server




AFTER

MASS
160
AREA
2763
HEIGHT
2449
28-May-2024
13:05



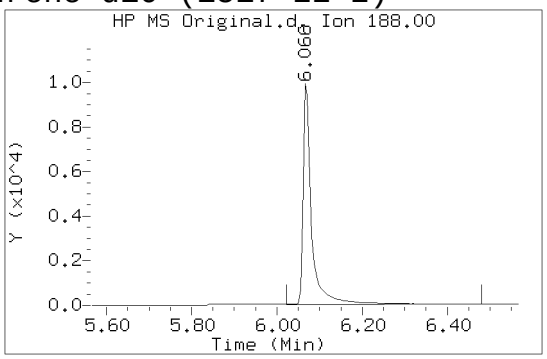
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

## Phenanthrene-d10 (1517-22-2)

Reason Code:

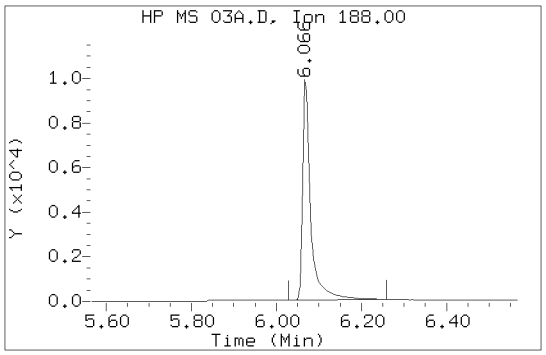
**BEFORE**

MASS
188
AREA
14212
HEIGHT
9923
18-Apr-2024
12:42
ALSHS
Server



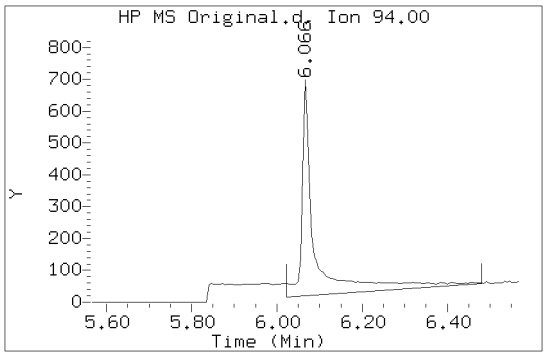

**AFTER**

MASS
188
AREA
13232
HEIGHT
9886
28-May-2024
13:05



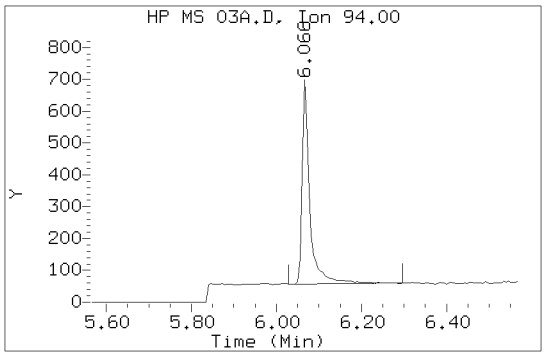

**BEFORE**

MASS
94
AREA
1408
HEIGHT
677
18-Apr-2024
12:42
ALSHS
Server



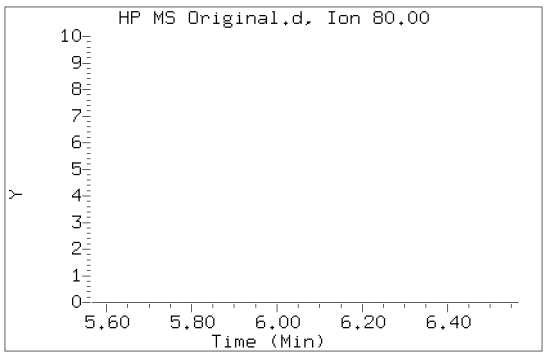

**AFTER**

MASS
94
AREA
802
HEIGHT
640
28-May-2024
13:05



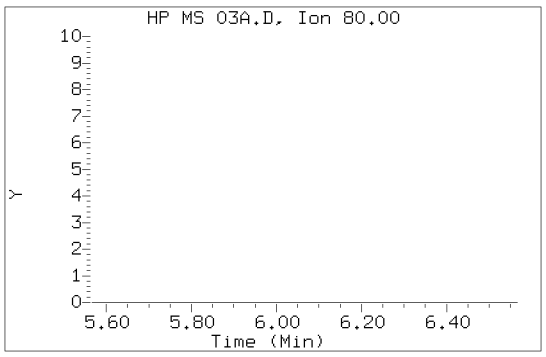

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

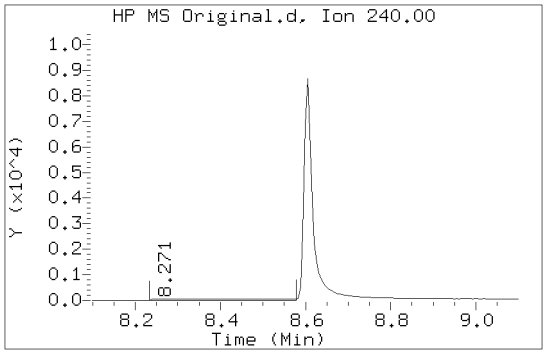



## Chrysene-d12 (1719-03-5)

Reason Code:

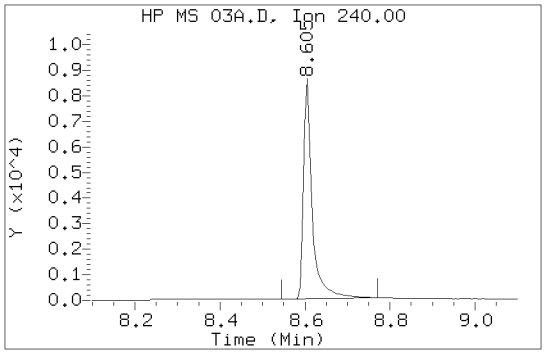
**BEFORE**

MASS
240
AREA
1046
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server




**AFTER**

MASS
240
AREA
12125
HEIGHT
8606
28-May-2024
13:05



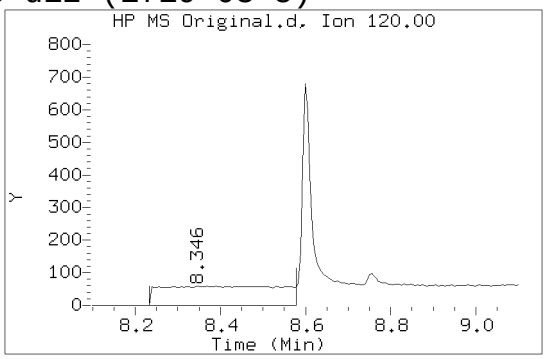
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

## Chrysene-d12 (1719-03-5)

Reason Code:

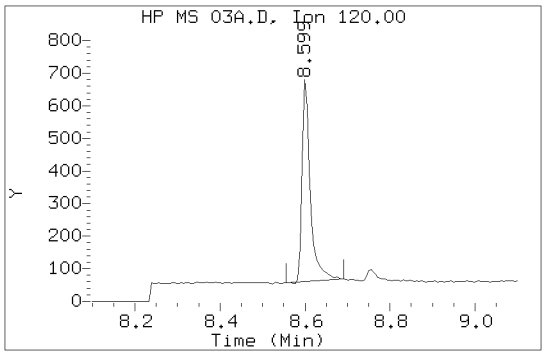
**BEFORE**

MASS
120
AREA
1175
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



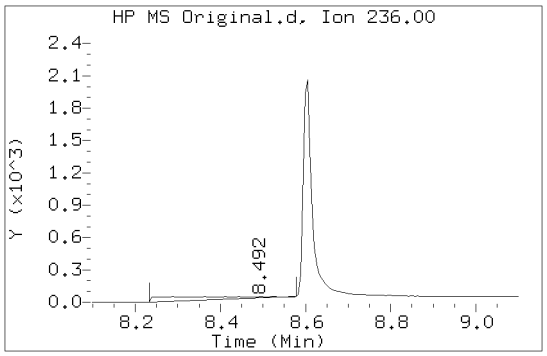

**AFTER**

MASS
120
AREA
821
HEIGHT
619
28-May-2024
13:05



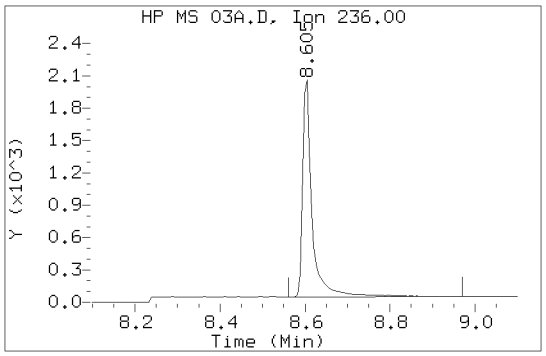

**BEFORE**

MASS
236
AREA
485
HEIGHT
13
18-Apr-2024
12:42
ALSHS
Server




**AFTER**

MASS
236
AREA
3066
HEIGHT
2012
28-May-2024
13:05

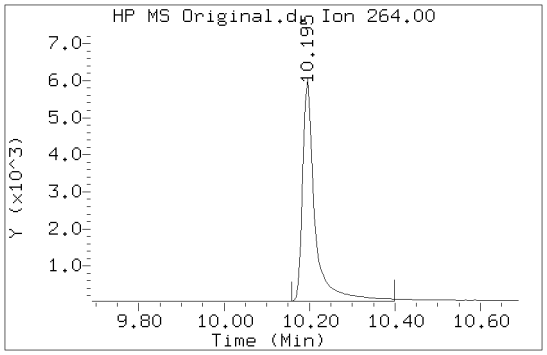



## Perylene-d12 (1520-96-3)

Reason Code:

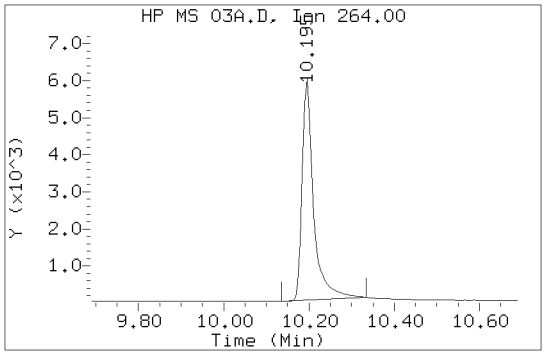
**BEFORE**

MASS
264
AREA
11914
HEIGHT
5992
18-Apr-2024
12:42
ALSHS
Server



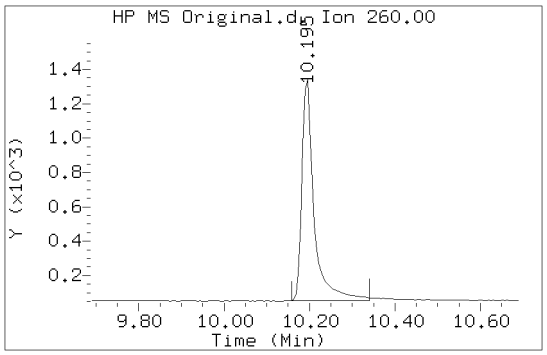

**AFTER**

MASS
264
AREA
11098
HEIGHT
5966
28-May-2024
13:05



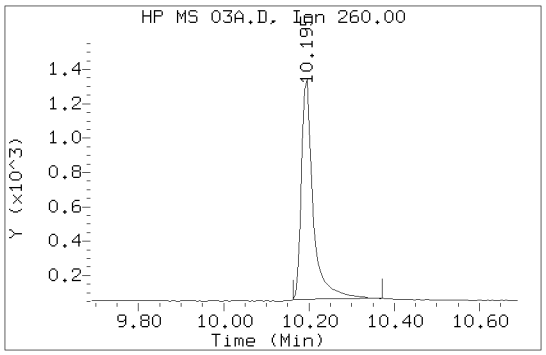

**BEFORE**

MASS
260
AREA
2543
HEIGHT
1286
18-Apr-2024
12:42
ALSHS
Server




**AFTER**

MASS
260
AREA
2442
HEIGHT
1278
28-May-2024
13:05



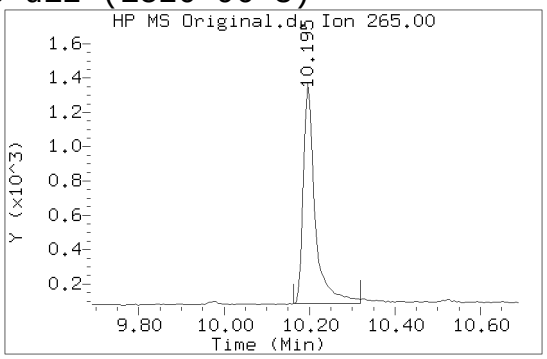
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

## Perylene-d12 (1520-96-3)

Reason Code:

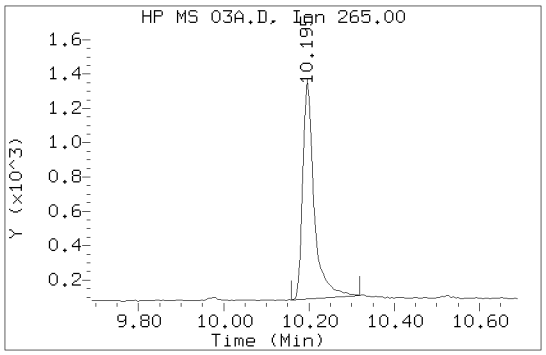
**BEFORE**

MASS
265
AREA
2459
HEIGHT
1281
18-Apr-2024
12:42
ALSHS
Server




**AFTER**

MASS
265
AREA
2359
HEIGHT
1277
28-May-2024
13:05

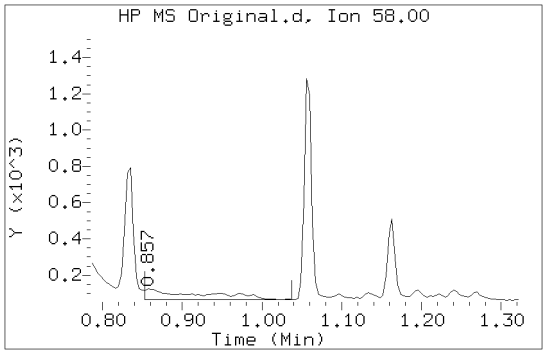



## 1,4-Dioxane ()

Reason Code:

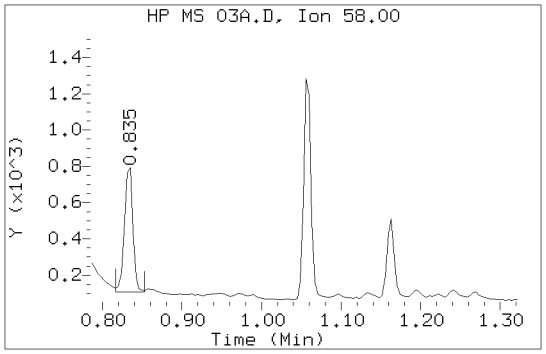
**BEFORE**

MASS
58
AREA
288
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



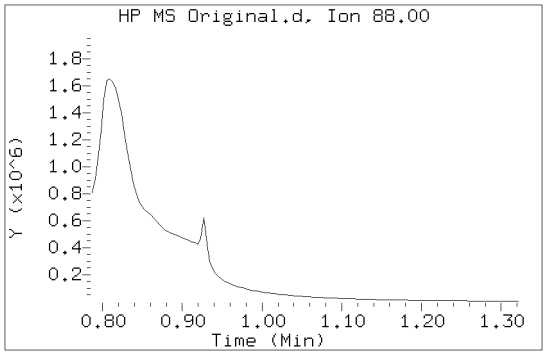

**AFTER**

MASS
58
AREA
503
HEIGHT
686
28-May-2024
13:05



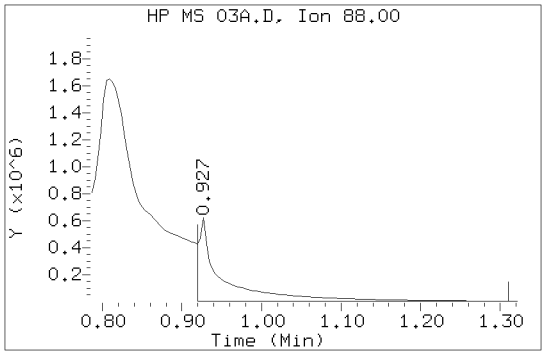

**BEFORE**

MASS
88
AREA
1284716
HEIGHT
617517
18-Apr-2024
12:42
ALSHS
Server




**AFTER**

MASS
88
AREA
1274387
HEIGHT
617087
28-May-2024
13:05

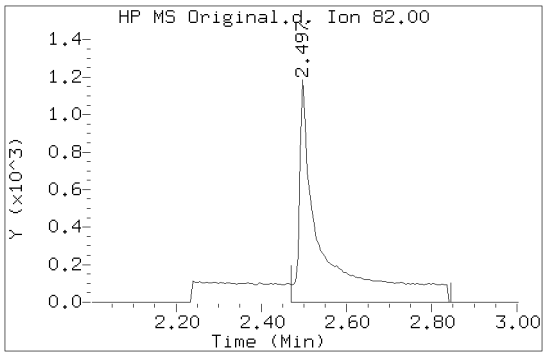



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

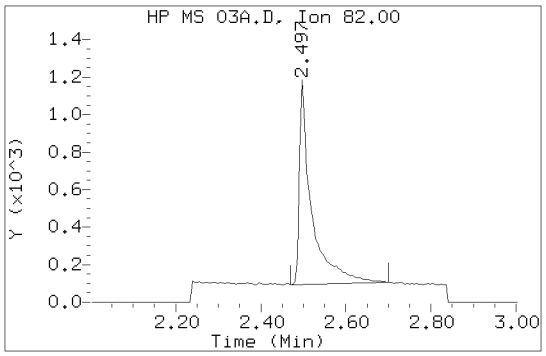
**BEFORE**

MASS
82
AREA
4330
HEIGHT
1185
18-Apr-2024
12:42
ALSHS
Server




**AFTER**

MASS
82
AREA
2161
HEIGHT
1090
28-May-2024
13:05



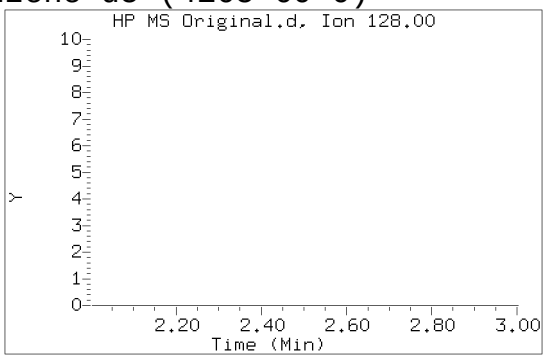
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

## Nitrobenzene-d5 (4165-60-0)

Reason Code:

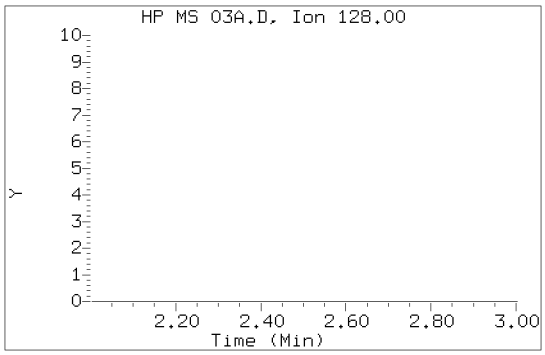
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server



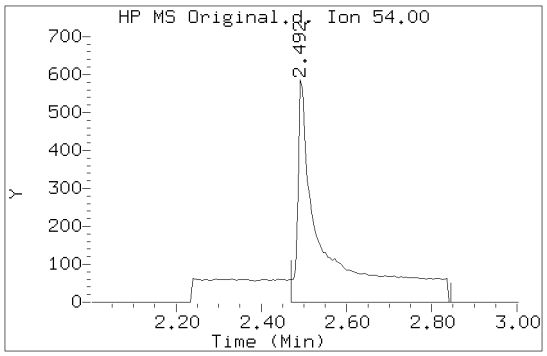

AFTER

MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



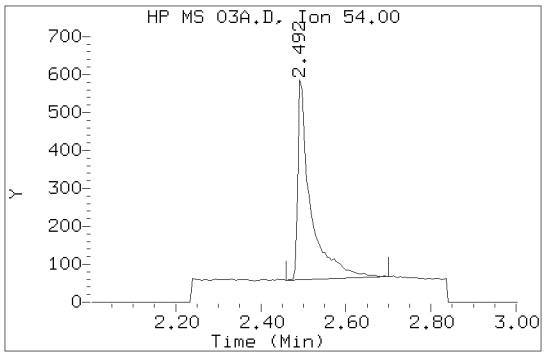

BEFORE

MASS
54
AREA
2489
HEIGHT
586
18-Apr-2024
12:42
ALSHS
Server




AFTER

MASS
54
AREA
1100
HEIGHT
526
28-May-2024
13:05

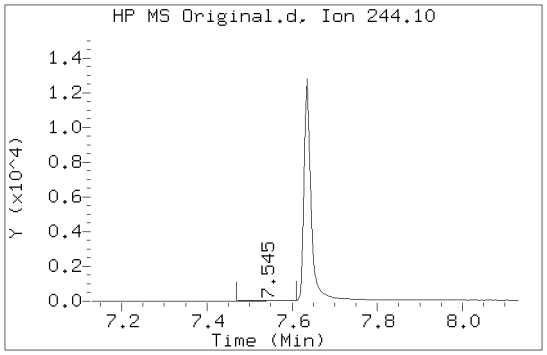



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

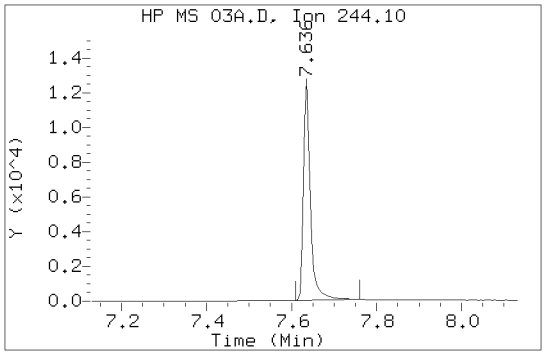
BEFORE

MASS
244.1
AREA
193
HEIGHT
23
18-Apr-2024
12:42
ALSHS
Server



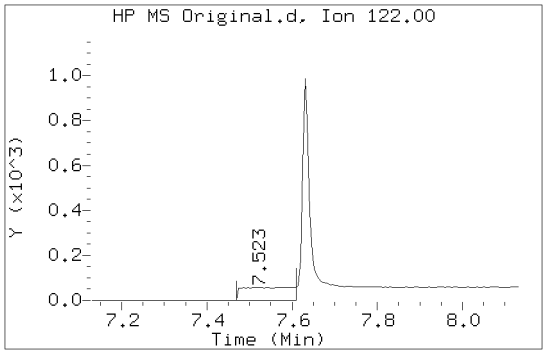

AFTER

MASS
244.1
AREA
14251
HEIGHT
12746
28-May-2024
13:05



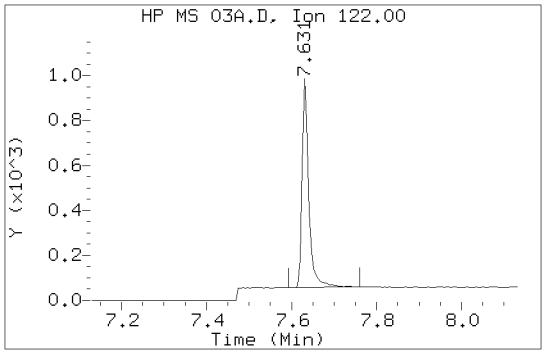

BEFORE

MASS
122
AREA
473
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server




AFTER

MASS
122
AREA
1008
HEIGHT
928
28-May-2024
13:05



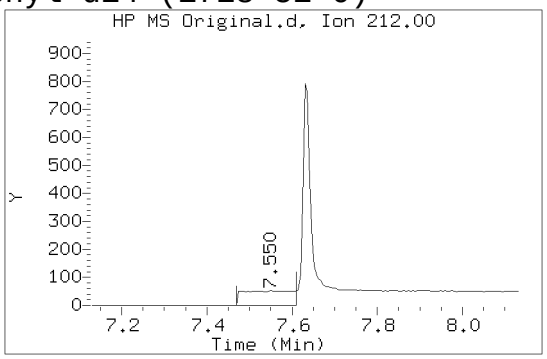
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

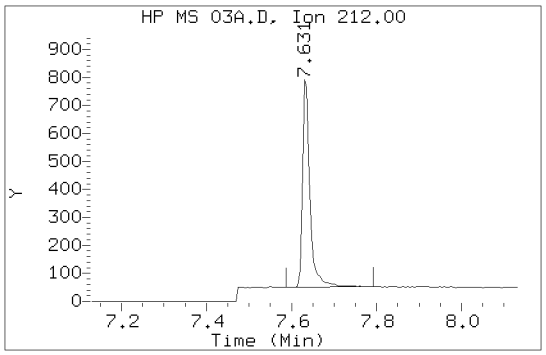
**BEFORE**

MASS
212
AREA
422
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server




**AFTER**

MASS
212
AREA
890
HEIGHT
741
28-May-2024
13:05

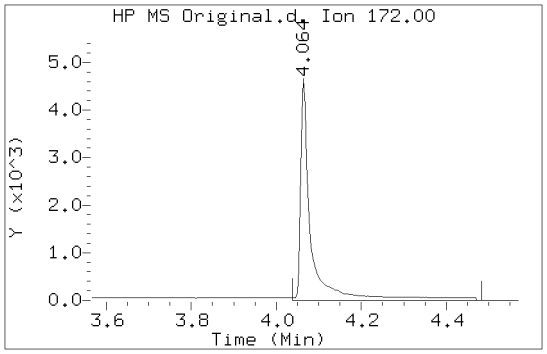



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

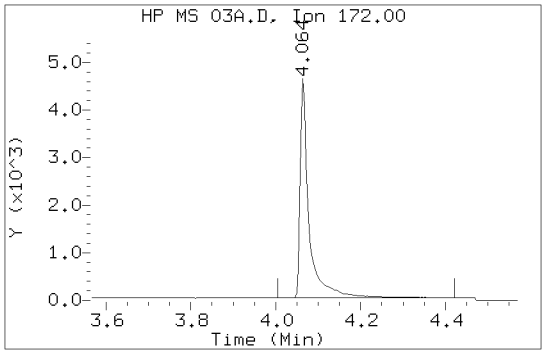
**BEFORE**

MASS
172
AREA
8151
HEIGHT
4659
18-Apr-2024
12:42
ALSHS
Server



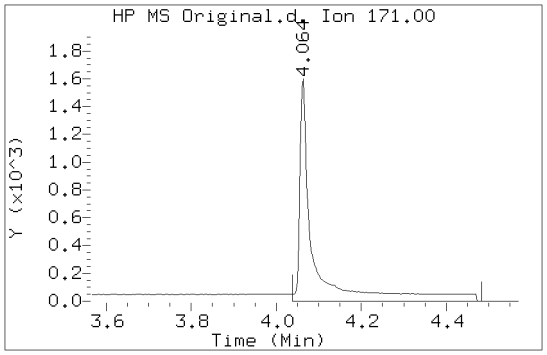

**AFTER**

MASS
172
AREA
6691
HEIGHT
4608
28-May-2024
13:05



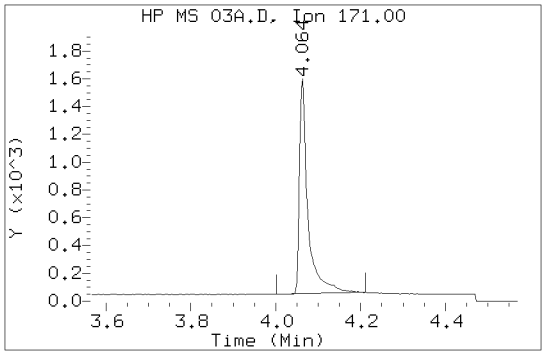

**BEFORE**

MASS
171
AREA
3618
HEIGHT
1599
18-Apr-2024
12:42
ALSHS
Server




**AFTER**

MASS
171
AREA
2124
HEIGHT
1543
28-May-2024
13:05



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Lab Smp Id: 14DX-0.01
Inj Date : 18-APR-2024 12:49
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 12:49 Cal File: 04.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

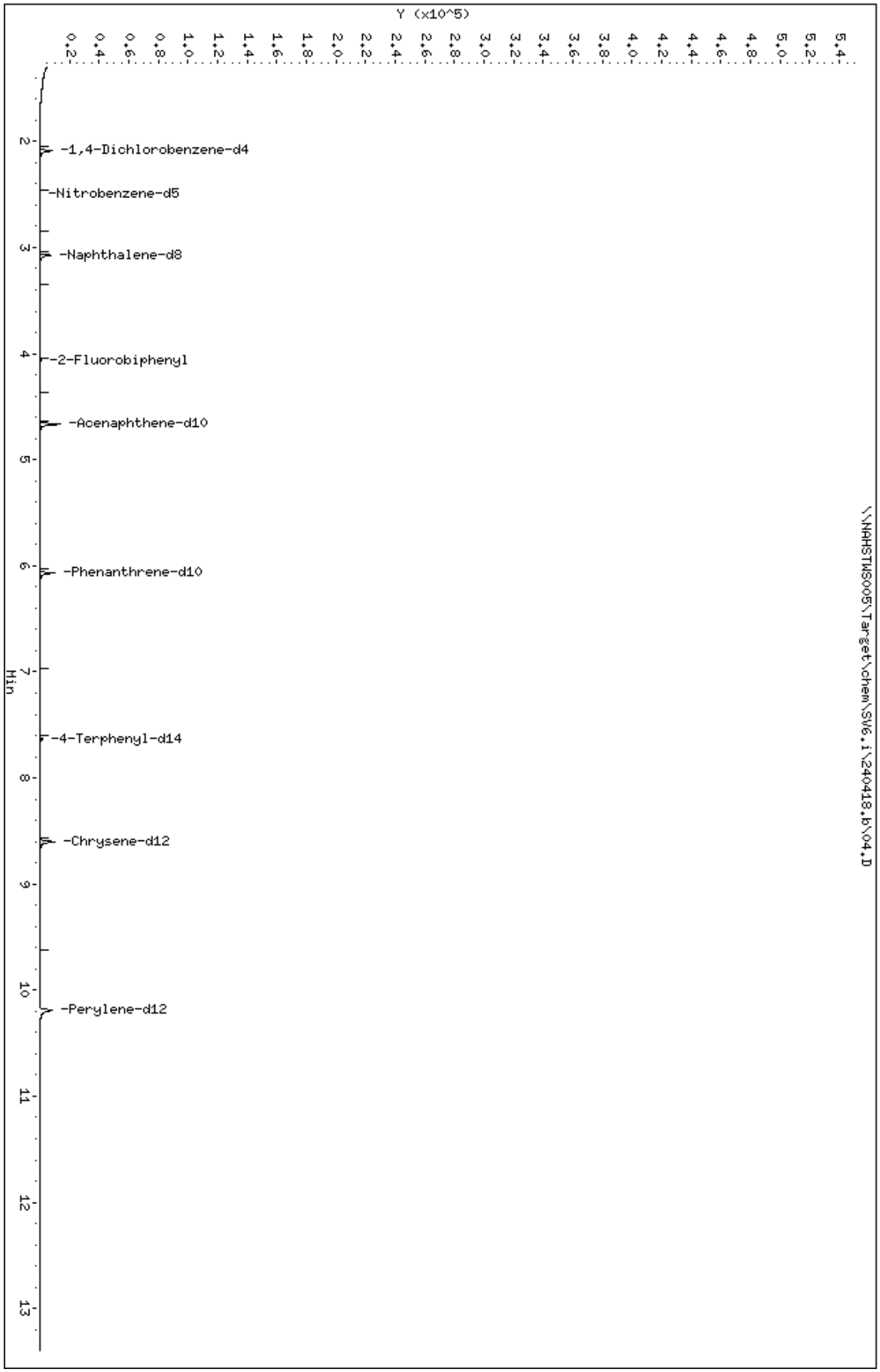
| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | AMOUNTS ON-COL ( NG) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 2.089 | 2.089 | (1.000) | 3248 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 3.073 | 3.076 | (1.000) | 10308 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.497 | 2.502 | (0.813) | 262 | 0.01000 | 0.008466(M) |
| * 86 Acenaphthene-d10 | 164 | 4.665 | 4.671 | (1.000) | 6420 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 4.064 | 4.067 | (0.871) | 1018 | 0.01000 | 0.01037(M) |
| * 126 Phenanthrene-d10 | 188 | 6.066 | 6.065 | (1.000) | 12867 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 8.604 | 8.599 | (1.000) | 11333 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.636 | 7.630 | (0.887) | 2521 | 0.01000 | 0.01092(M) |
| * 198 Perylene-d12 | 264 | 10.195 | 10.189 | (1.000) | 12071 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 0.838 | 0.820 | (0.401) | 87 | 0.01000 | 0.01250(QM) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Date : 18-APR-2024 12:49
Client ID:
Sample Info: 14DX-0.01
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28

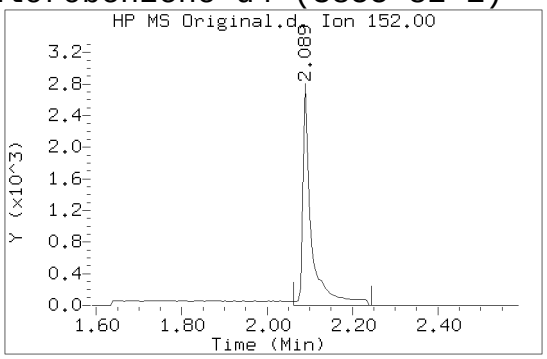


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

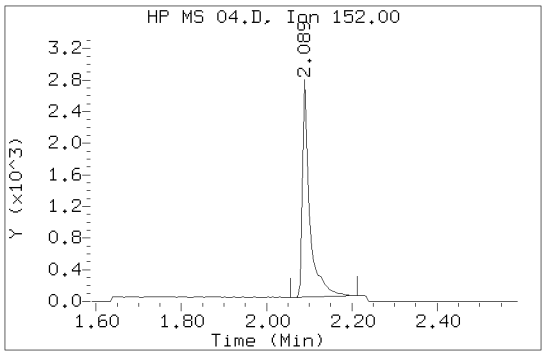
## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

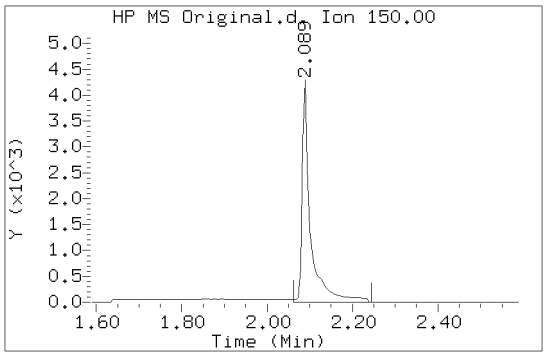
BEFORE
MASS
152
AREA
3912
HEIGHT
2804
18-Apr-2024
13:10
ALSHS
Server



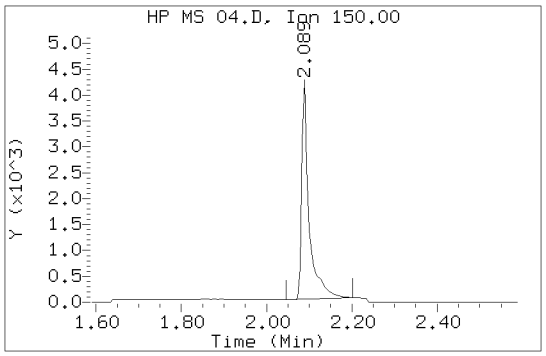

AFTER
MASS
152
AREA
3248
HEIGHT
2748
28-May-2024
13:05



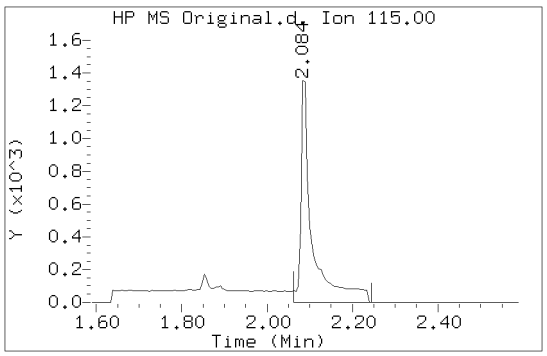

BEFORE
MASS
150
AREA
5830
HEIGHT
4294
18-Apr-2024
13:10
ALSHS
Server



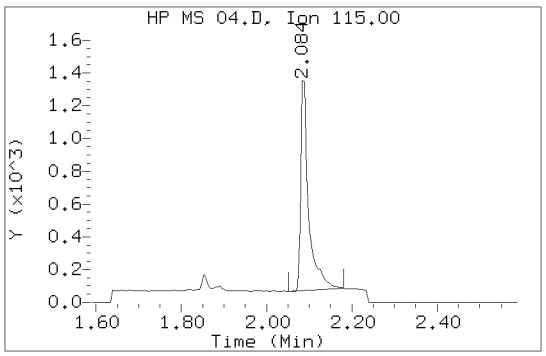

AFTER
MASS
150
AREA
5043
HEIGHT
4231
28-May-2024
13:05




BEFORE
MASS
115
AREA
2502
HEIGHT
1353
18-Apr-2024
13:10
ALSHS
Server



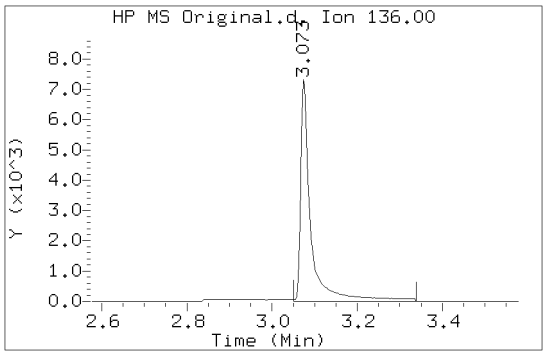

AFTER
MASS
115
AREA
1663
HEIGHT
1280
28-May-2024
13:05



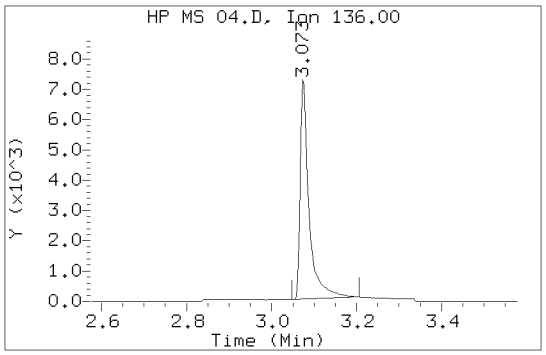

## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
12033
HEIGHT
7318
18-Apr-2024
13:10
ALSHS
Server




AFTER
MASS
136
AREA
10308
HEIGHT
7248
28-May-2024
13:05



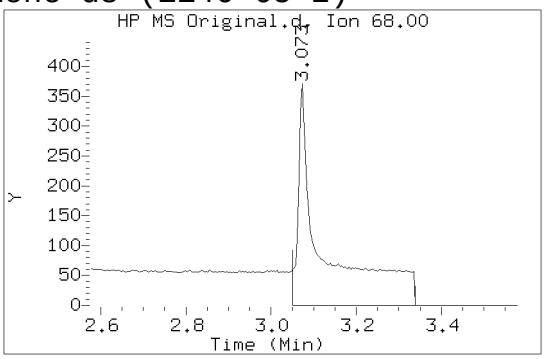
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

## Naphthalene-d8 (1146-65-2)

Reason Code:

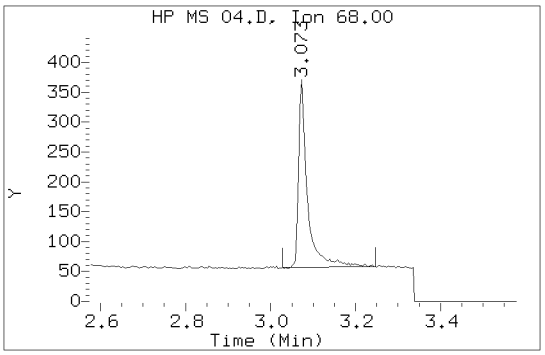
**BEFORE**

MASS
68
AREA
1444
HEIGHT
371
18-Apr-2024
13:10
ALSHS
Server




**AFTER**

MASS
68
AREA
448
HEIGHT
313
28-May-2024
13:05

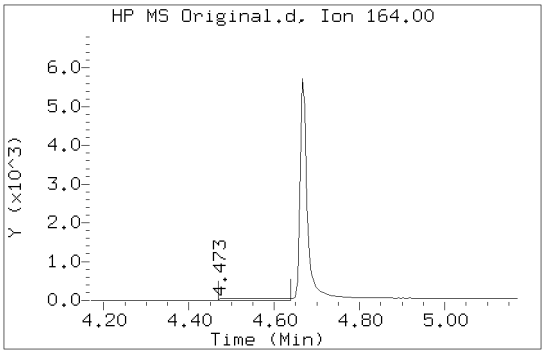



## Acenaphthene-d10 (15067-26-2)

Reason Code:

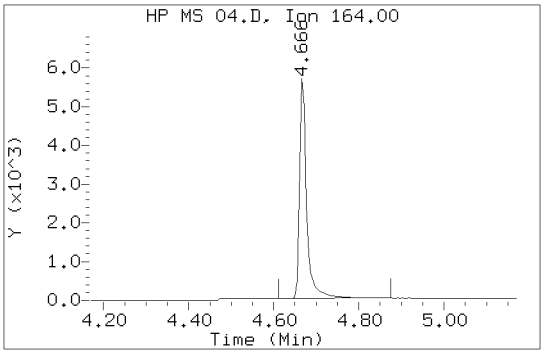
**BEFORE**

MASS
164
AREA
515
HEIGHT
52
18-Apr-2024
13:10
ALSHS
Server



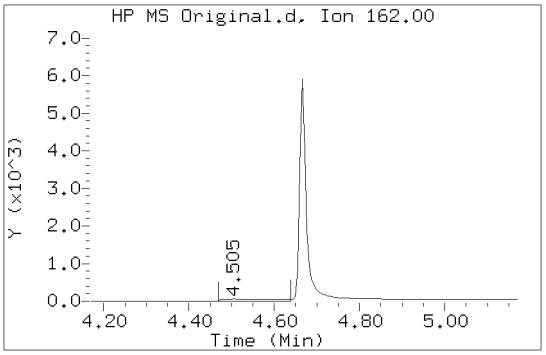

**AFTER**

MASS
164
AREA
6420
HEIGHT
5670
28-May-2024
13:05



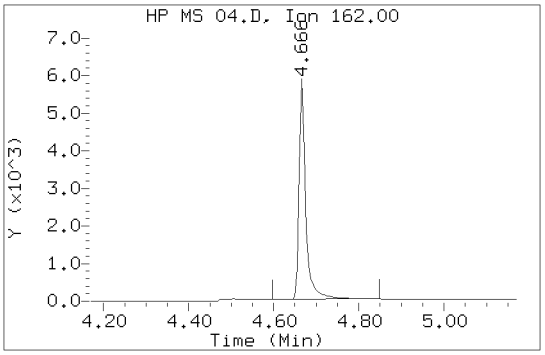

**BEFORE**

MASS
162
AREA
528
HEIGHT
60
18-Apr-2024
13:10
ALSHS
Server



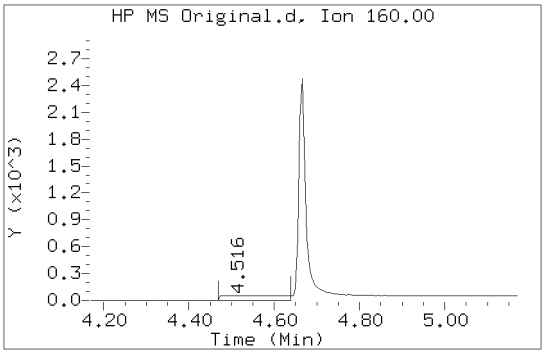

**AFTER**

MASS
162
AREA
6187
HEIGHT
5861
28-May-2024
13:05



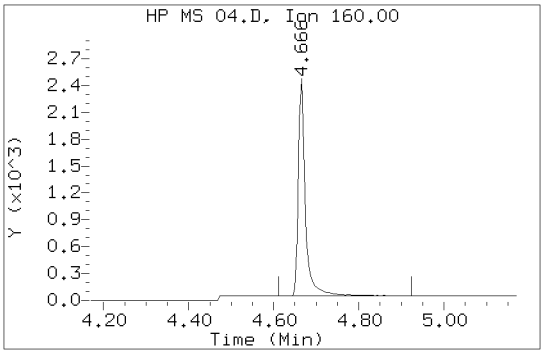

**BEFORE**

MASS
160
AREA
499
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server




**AFTER**

MASS
160
AREA
2756
HEIGHT
2428
28-May-2024
13:05



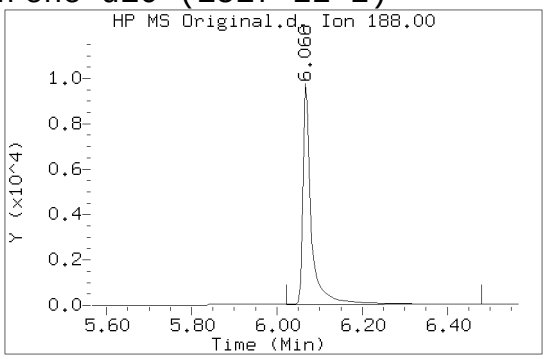
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

## Phenanthrene-d10 (1517-22-2)

Reason Code:

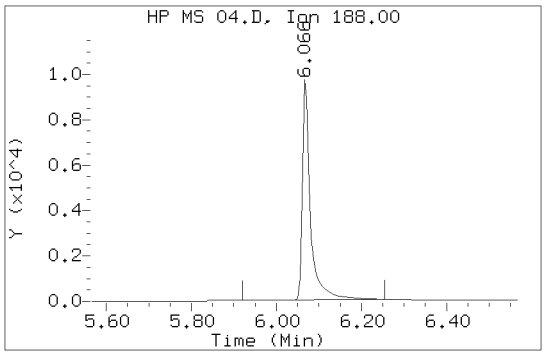
**BEFORE**

MASS
188
AREA
13965
HEIGHT
9748
18-Apr-2024
13:10
ALSHS
Server



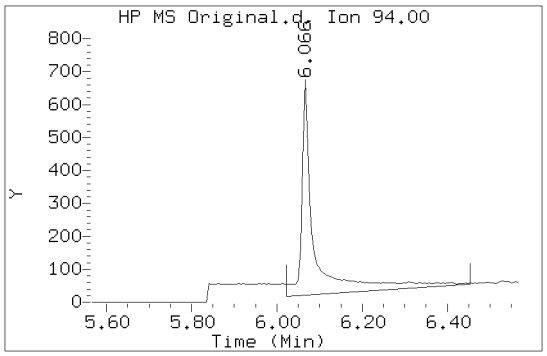

**AFTER**

MASS
188
AREA
12867
HEIGHT
9702
28-May-2024
13:05



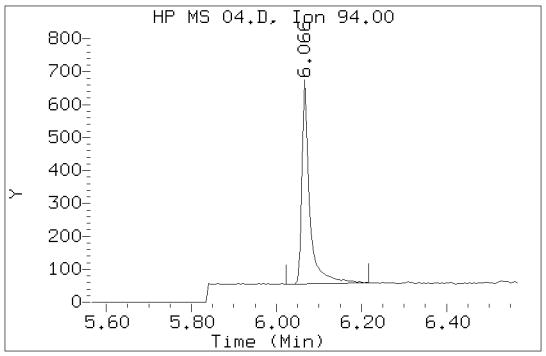

**BEFORE**

MASS
94
AREA
1364
HEIGHT
654
18-Apr-2024
13:10
ALSHS
Server



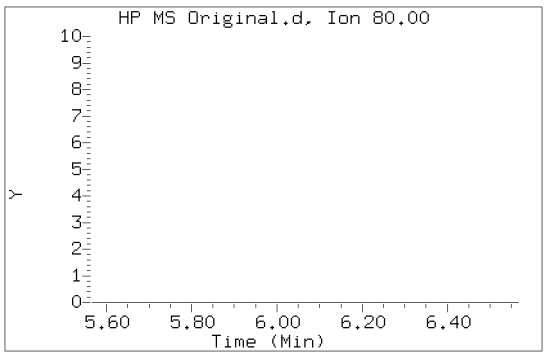

**AFTER**

MASS
94
AREA
793
HEIGHT
619
28-May-2024
13:05



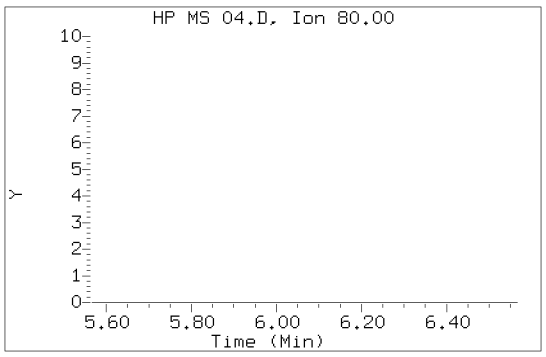

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

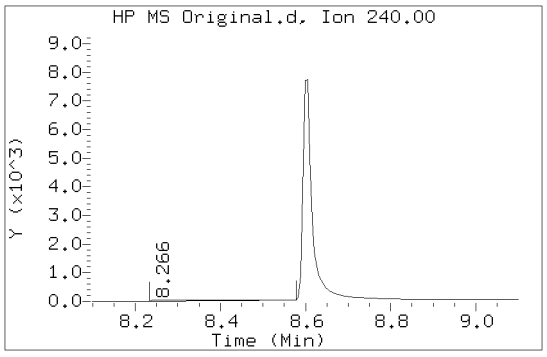



## Chrysene-d12 (1719-03-5)

Reason Code:

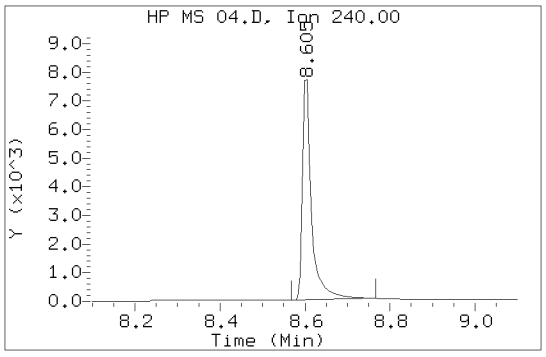
**BEFORE**

MASS
240
AREA
456
HEIGHT
48
18-Apr-2024
13:10
ALSHS
Server




**AFTER**

MASS
240
AREA
11333
HEIGHT
7679
28-May-2024
13:05

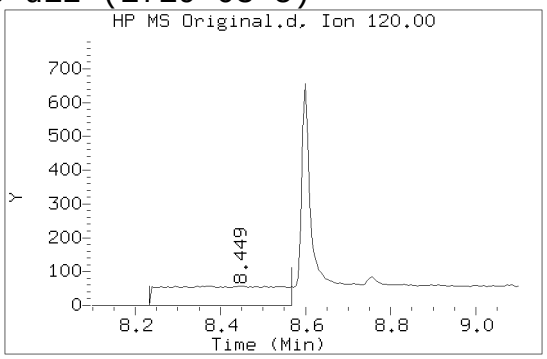


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

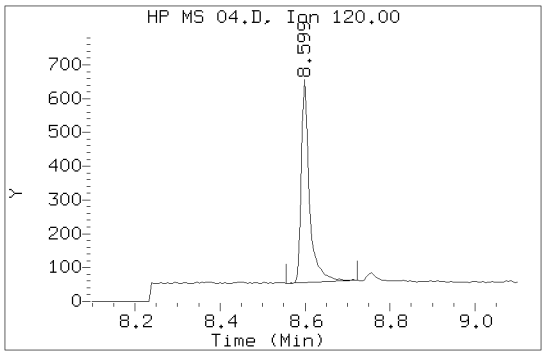
## Chrysene-d12 (1719-03-5)

Reason Code:

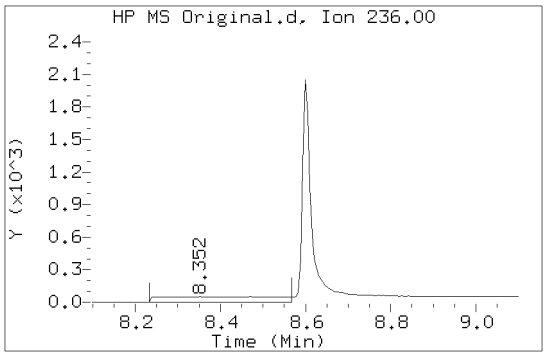
BEFORE
MASS
120
AREA
1092
HEIGHT
57
18-Apr-2024
13:10
ALSHS
Server



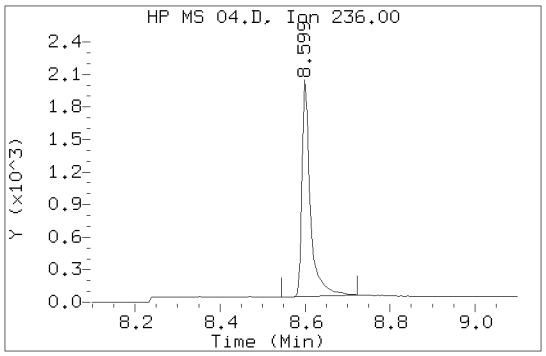

AFTER
MASS
120
AREA
786
HEIGHT
599
28-May-2024
13:05




BEFORE
MASS
236
AREA
988
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server



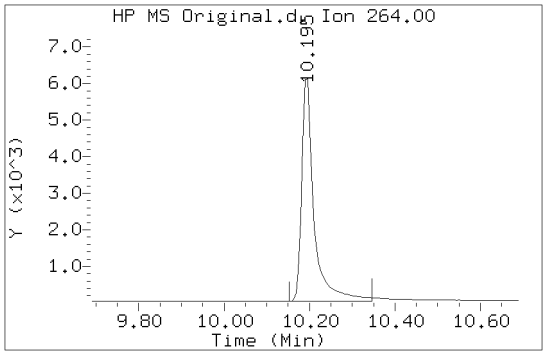

AFTER
MASS
236
AREA
2680
HEIGHT
1995
28-May-2024
13:05



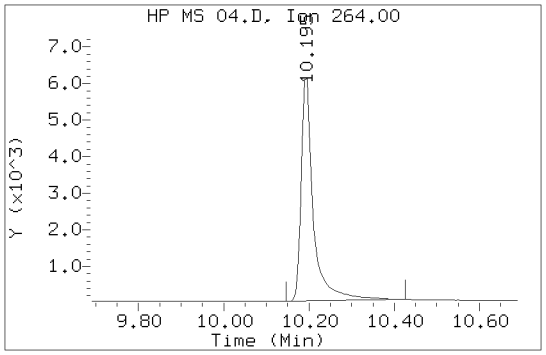

## Perylene-d12 (1520-96-3)

Reason Code:

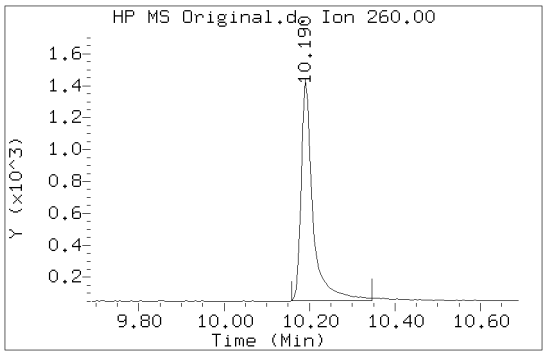
BEFORE
MASS
264
AREA
12161
HEIGHT
6073
18-Apr-2024
13:10
ALSHS
Server



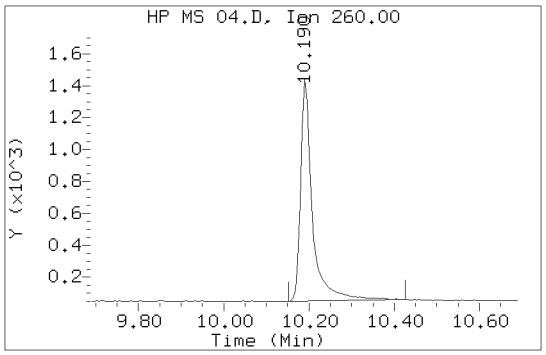

AFTER
MASS
264
AREA
12071
HEIGHT
6065
28-May-2024
13:05




BEFORE
MASS
260
AREA
2633
HEIGHT
1385
18-Apr-2024
13:10
ALSHS
Server




AFTER
MASS
260
AREA
2644
HEIGHT
1385
28-May-2024
13:05



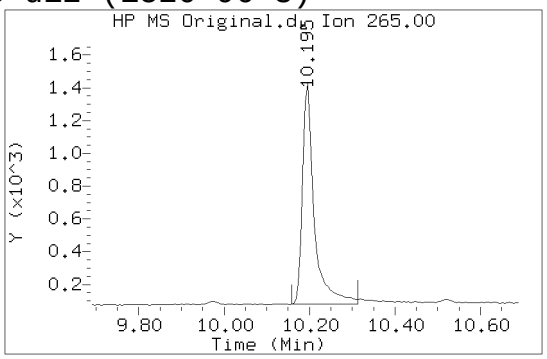
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

## Perylene-d12 (1520-96-3)

Reason Code:

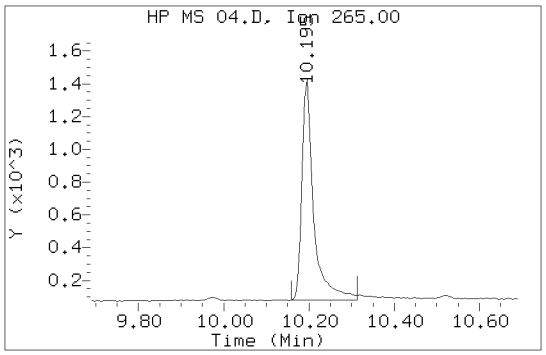
**BEFORE**

MASS
265
AREA
2550
HEIGHT
1343
18-Apr-2024
13:10
ALSHS
Server




**AFTER**

MASS
265
AREA
2550
HEIGHT
1343
28-May-2024
13:05

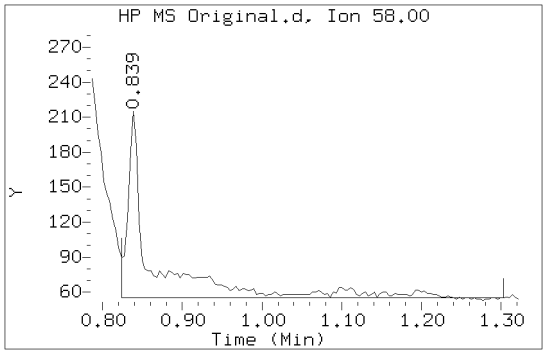



## 1,4-Dioxane ()

Reason Code:

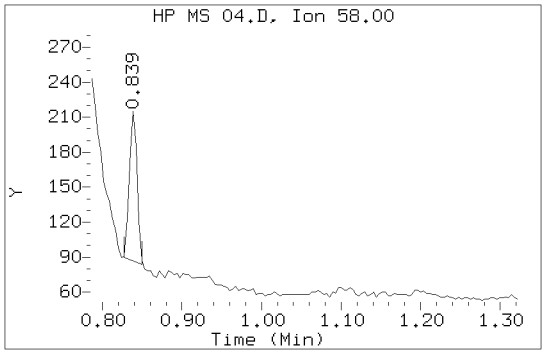
**BEFORE**

MASS
58
AREA
329
HEIGHT
160
18-Apr-2024
13:10
ALSHS
Server



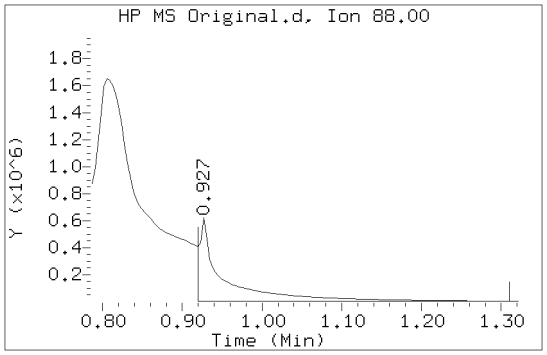

**AFTER**

MASS
58
AREA
87
HEIGHT
128
28-May-2024
13:05



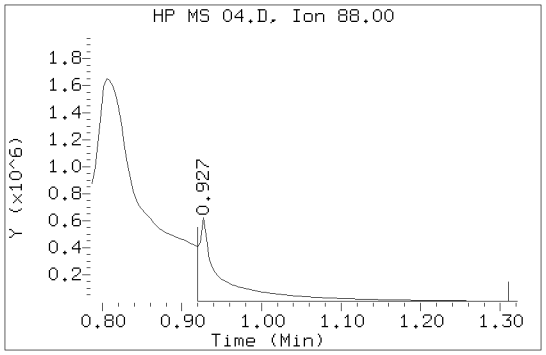

**BEFORE**

MASS
88
AREA
1289287
HEIGHT
619255
18-Apr-2024
13:10
ALSHS
Server




**AFTER**

MASS
88
AREA
1289287
HEIGHT
619255
28-May-2024
13:05

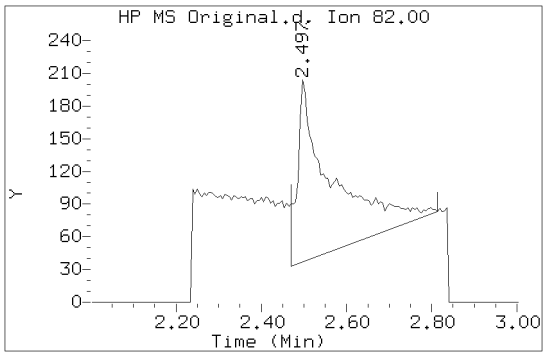



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

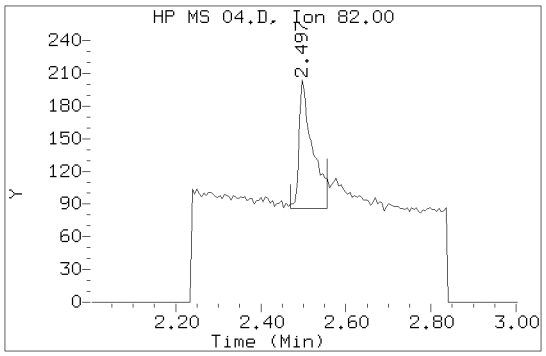
**BEFORE**

MASS
82
AREA
946
HEIGHT
167
18-Apr-2024
13:10
ALSHS
Server




**AFTER**

MASS
82
AREA
262
HEIGHT
118
28-May-2024
13:05

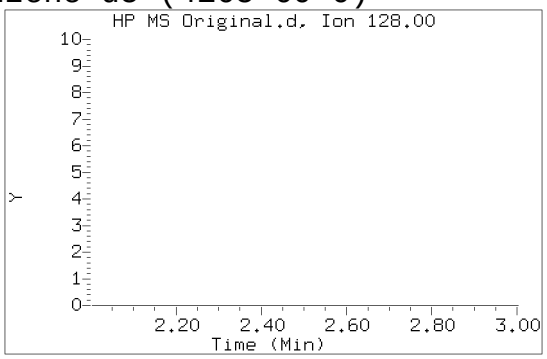


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

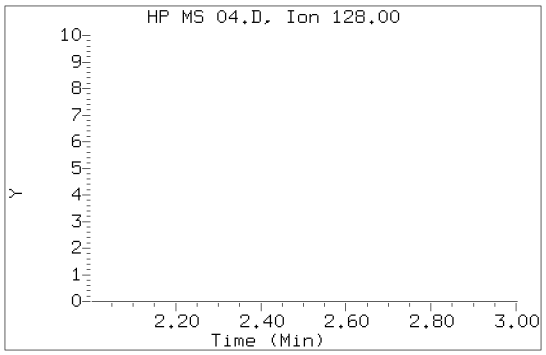
## Nitrobenzene-d5 (4165-60-0)

Reason Code:

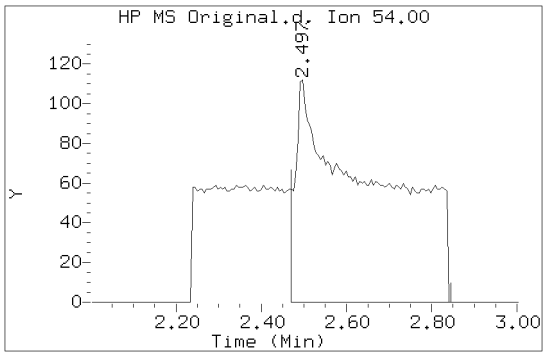
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server



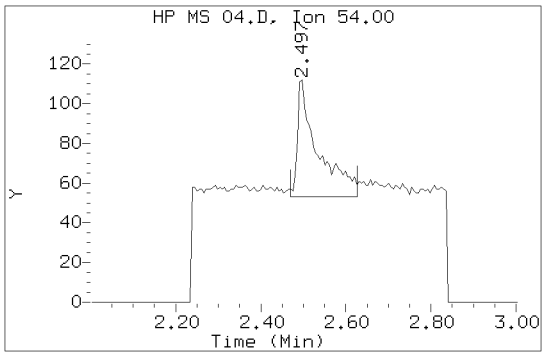

AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05




BEFORE
MASS
54
AREA
1431
HEIGHT
112
18-Apr-2024
13:10
ALSHS
Server



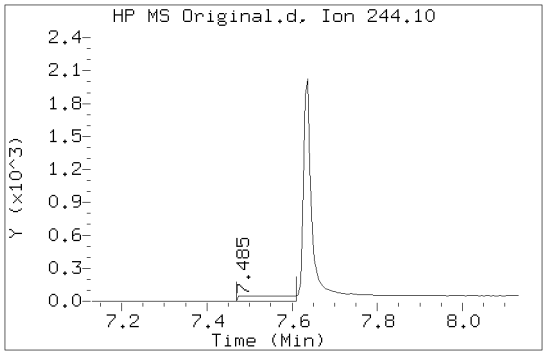

AFTER
MASS
54
AREA
197
HEIGHT
59
28-May-2024
13:05



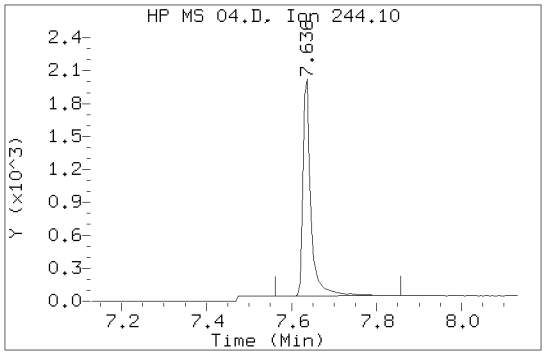

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

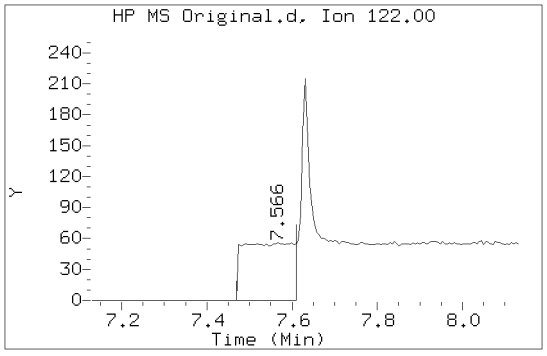
BEFORE
MASS
244.1
AREA
404
HEIGHT
49
18-Apr-2024
13:10
ALSHS
Server



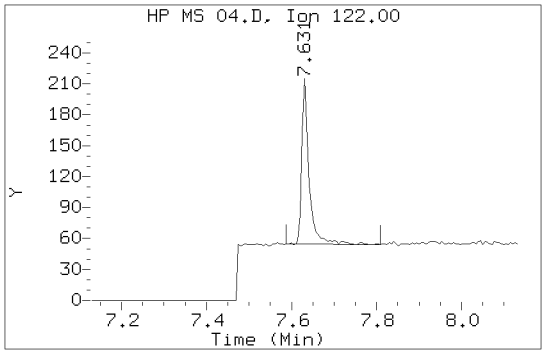

AFTER
MASS
244.1
AREA
2521
HEIGHT
1975
28-May-2024
13:05




BEFORE
MASS
122
AREA
456
HEIGHT
56
18-Apr-2024
13:10
ALSHS
Server




AFTER
MASS
122
AREA
187
HEIGHT
160
28-May-2024
13:05



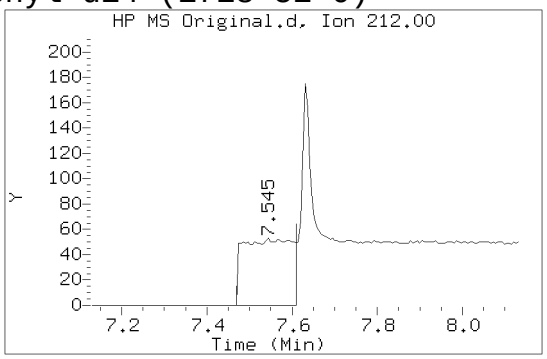
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

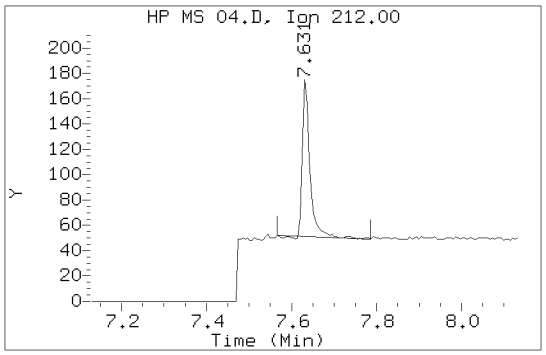
**BEFORE**

MASS
212
AREA
418
HEIGHT
53
18-Apr-2024
13:10
ALSHS
Server




**AFTER**

MASS
212
AREA
146
HEIGHT
123
28-May-2024
13:05

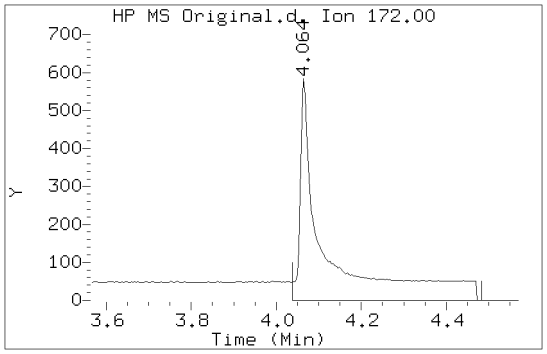



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

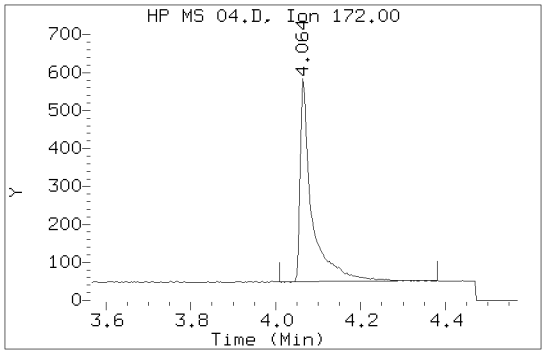
**BEFORE**

MASS
172
AREA
2355
HEIGHT
584
18-Apr-2024
13:10
ALSHS
Server



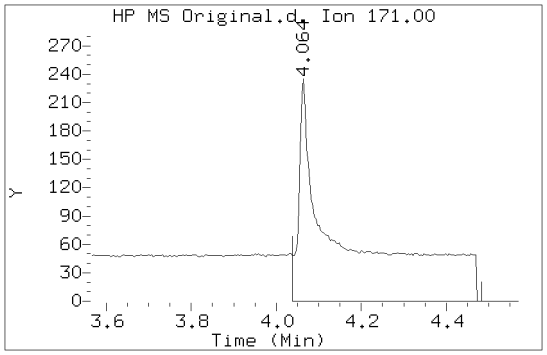

**AFTER**

MASS
172
AREA
1018
HEIGHT
534
28-May-2024
13:05



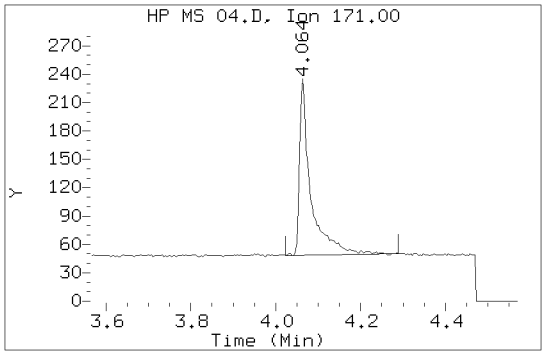

**BEFORE**

MASS
171
AREA
1637
HEIGHT
235
18-Apr-2024
13:10
ALSHS
Server




**AFTER**

MASS
171
AREA
346
HEIGHT
186
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Lab Smp Id: 14DX-0.03
Inj Date : 18-APR-2024 13:07
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:07 Cal File: 05.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | ON-COL ( NG) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 2.088 | 2.089 | (1.000) | 2278 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 3.076 | 3.076 | (1.000) | 6857 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.496 | 2.502 | (0.812) | 570 | 0.03000 | 0.02769(M) |
| * 86 Acenaphthene-d10 | 164 | 4.665 | 4.671 | (1.000) | 3891 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 4.063 | 4.067 | (0.871) | 1731 | 0.03000 | 0.02910(M) |
| * 126 Phenanthrene-d10 | 188 | 6.065 | 6.065 | (1.000) | 7578 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 8.598 | 8.599 | (1.000) | 6445 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.630 | 7.630 | (0.887) | 3857 | 0.03000 | 0.02938(M) |
| * 198 Perylene-d12 | 264 | 10.189 | 10.189 | (1.000) | 6635 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 0.827 | 0.820 | (0.396) | 138 | 0.03000 | 0.02828(QM) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D



Date : 18-APR-2024 13:07

Client ID:

Instrument: SV6.i

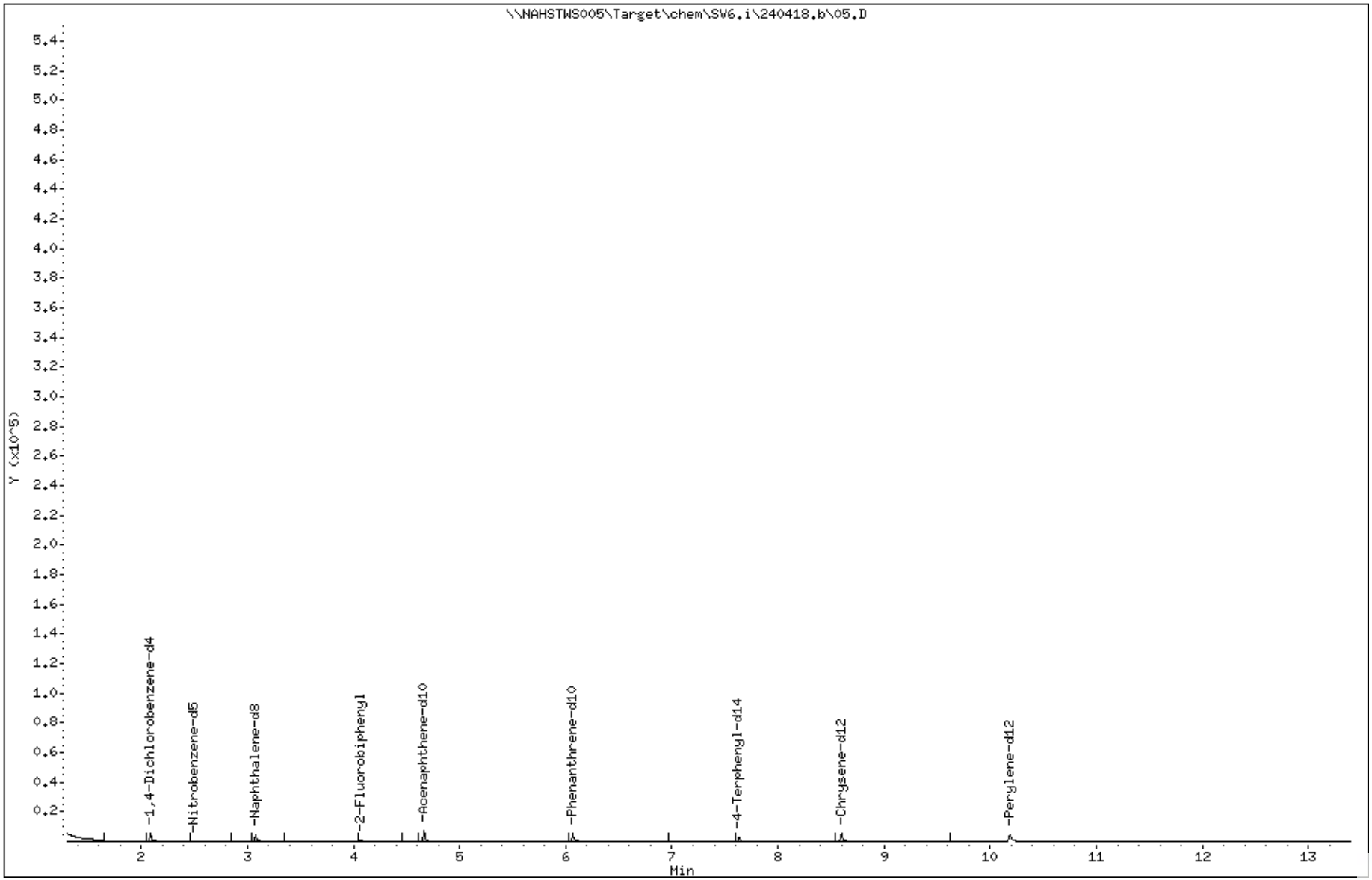
Sample Info: 14DX-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

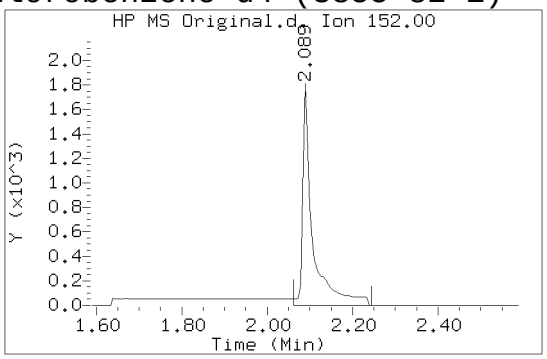


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

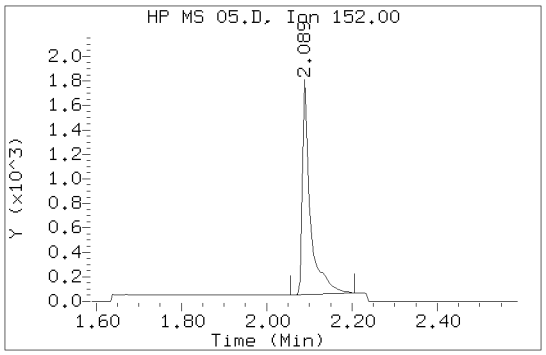
## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

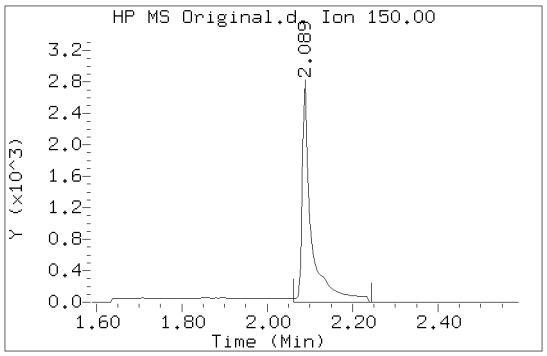
BEFORE
MASS
152
AREA
2919
HEIGHT
1810
18-Apr-2024
13:21
ALSHS
Server



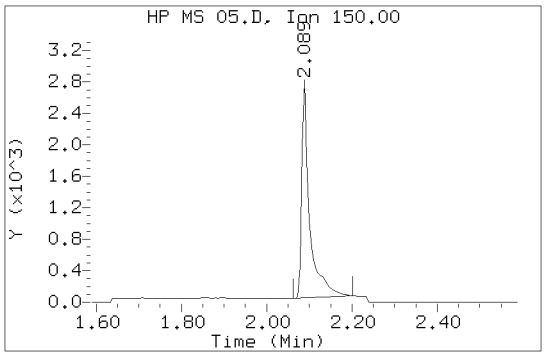

AFTER
MASS
152
AREA
2278
HEIGHT
1755
28-May-2024
13:05



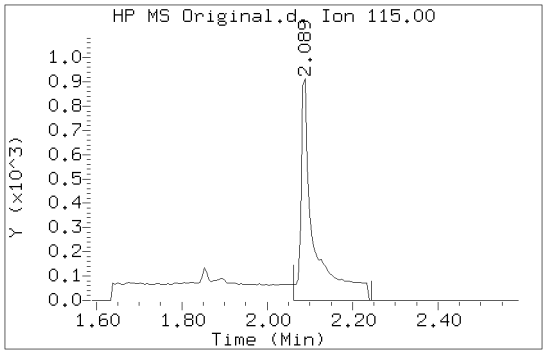

BEFORE
MASS
150
AREA
4252
HEIGHT
2826
18-Apr-2024
13:21
ALSHS
Server



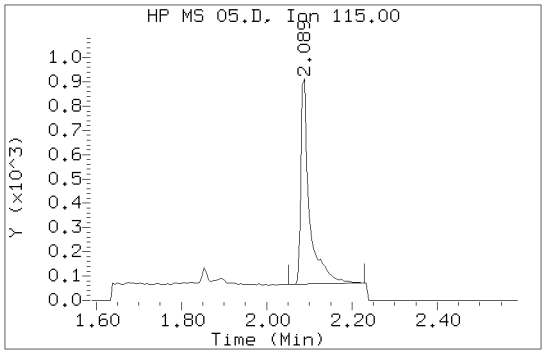

AFTER
MASS
150
AREA
3521
HEIGHT
2768
28-May-2024
13:05




BEFORE
MASS
115
AREA
1932
HEIGHT
913
18-Apr-2024
13:21
ALSHS
Server



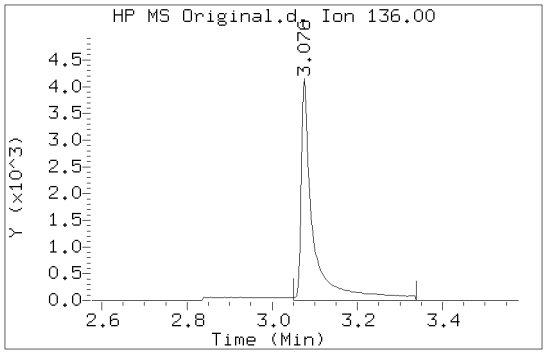

AFTER
MASS
115
AREA
1207
HEIGHT
846
28-May-2024
13:05



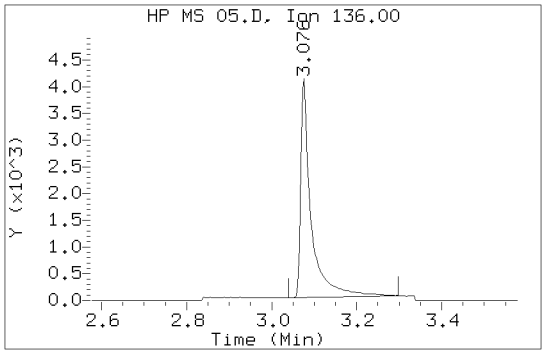

## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8079
HEIGHT
4148
18-Apr-2024
13:21
ALSHS
Server




AFTER
MASS
136
AREA
6857
HEIGHT
4091
28-May-2024
13:05



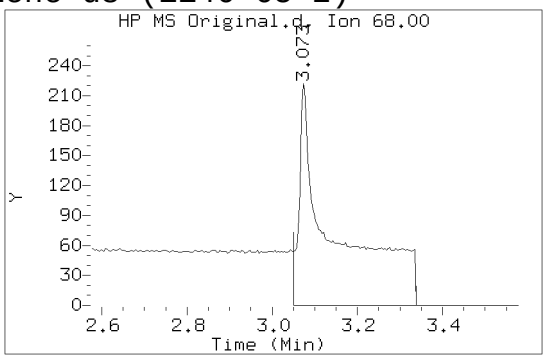
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

## Naphthalene-d8 (1146-65-2)

Reason Code:

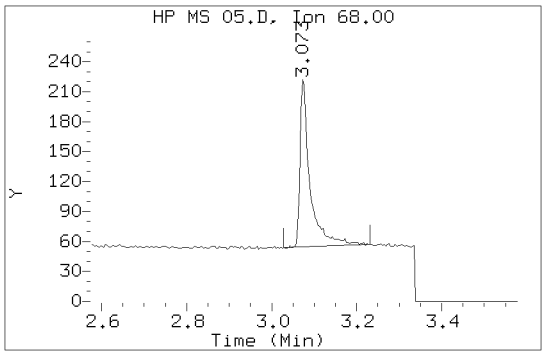
BEFORE

MASS
68
AREA
1234
HEIGHT
222
18-Apr-2024
13:21
ALSHS
Server




AFTER

MASS
68
AREA
270
HEIGHT
167
28-May-2024
13:05

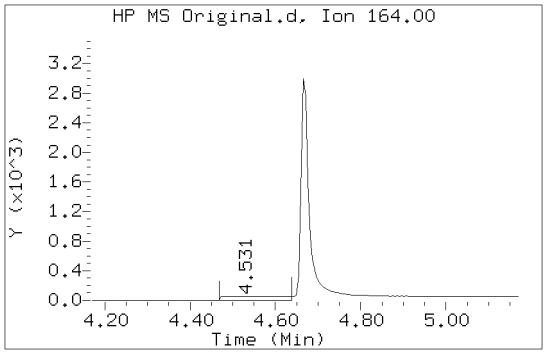



## Acenaphthene-d10 (15067-26-2)

Reason Code:

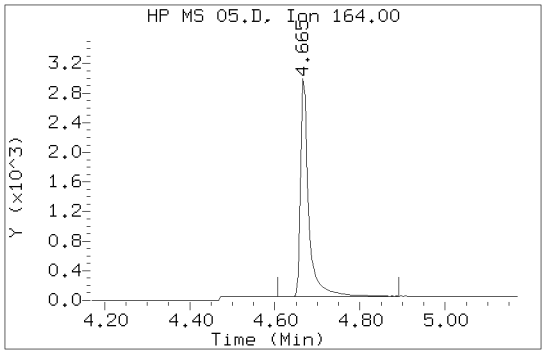
BEFORE

MASS
164
AREA
504
HEIGHT
51
18-Apr-2024
13:21
ALSHS
Server



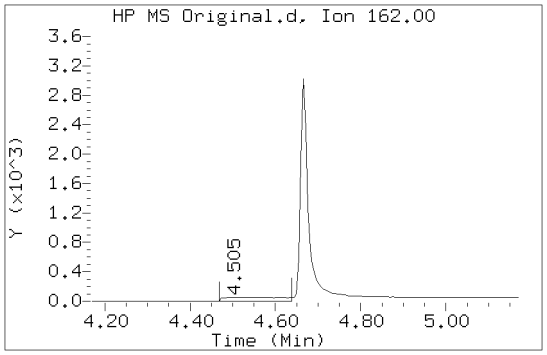

AFTER

MASS
164
AREA
3891
HEIGHT
2944
28-May-2024
13:05



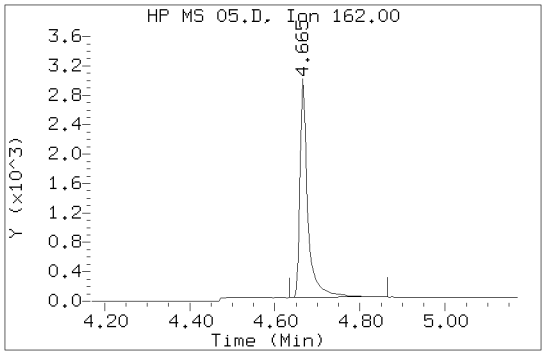

BEFORE

MASS
162
AREA
505
HEIGHT
54
18-Apr-2024
13:21
ALSHS
Server



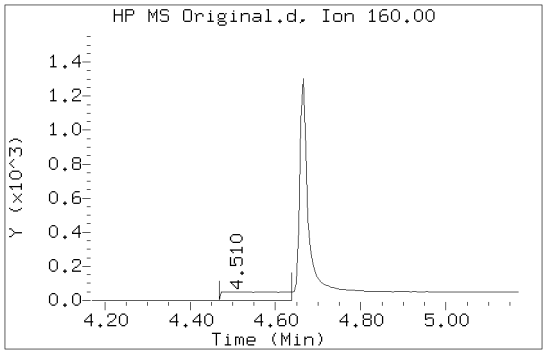

AFTER

MASS
162
AREA
3749
HEIGHT
2972
28-May-2024
13:05



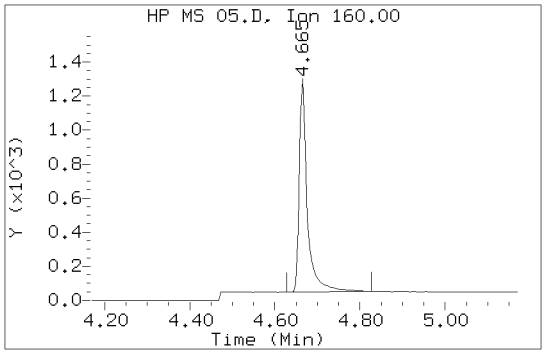

BEFORE

MASS
160
AREA
490
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server




AFTER

MASS
160
AREA
1625
HEIGHT
1253
28-May-2024
13:05



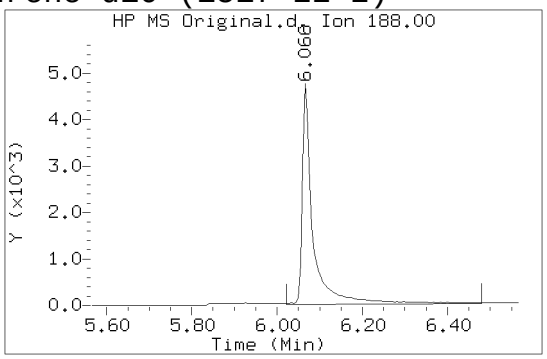
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

## Phenanthrene-d10 (1517-22-2)

Reason Code:

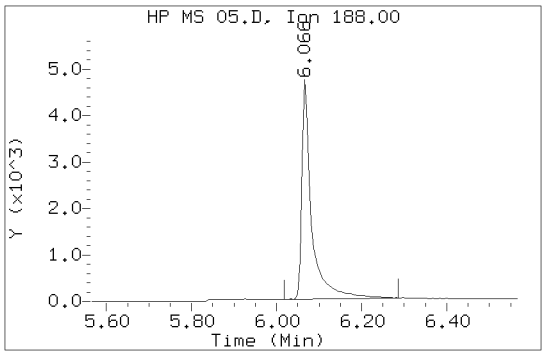
**BEFORE**

MASS
188
AREA
8422
HEIGHT
4756
18-Apr-2024
13:21
ALSHS
Server



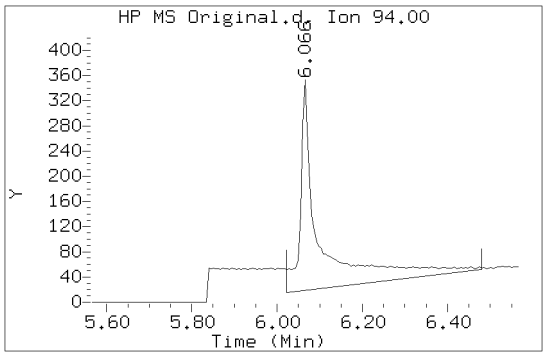

**AFTER**

MASS
188
AREA
7578
HEIGHT
4722
28-May-2024
13:05



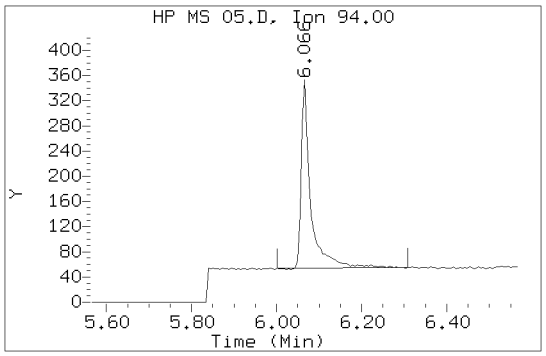

**BEFORE**

MASS
94
AREA
1045
HEIGHT
334
18-Apr-2024
13:21
ALSHS
Server



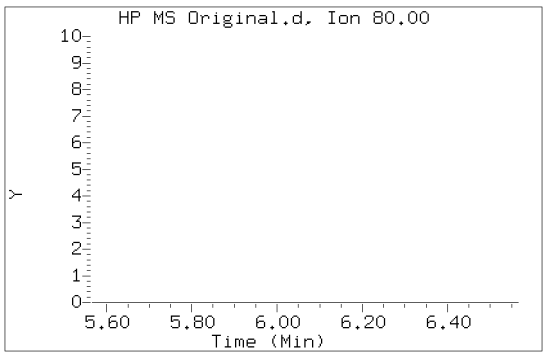

**AFTER**

MASS
94
AREA
460
HEIGHT
298
28-May-2024
13:05



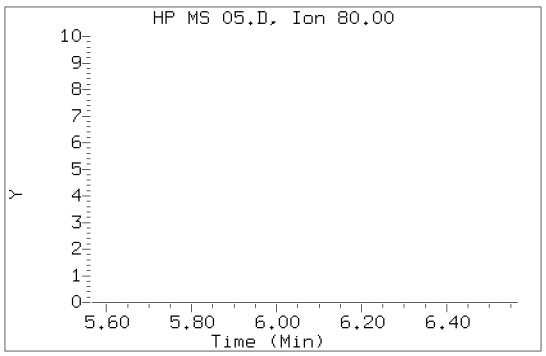

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

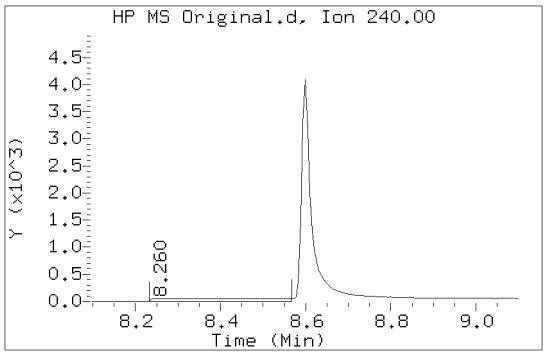



## Chrysene-d12 (1719-03-5)

Reason Code:

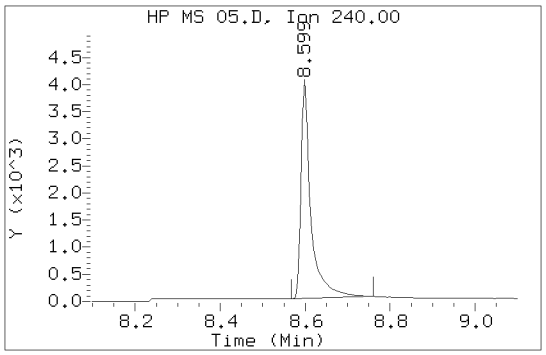
**BEFORE**

MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server




**AFTER**

MASS
240
AREA
6445
HEIGHT
4036
28-May-2024
13:05



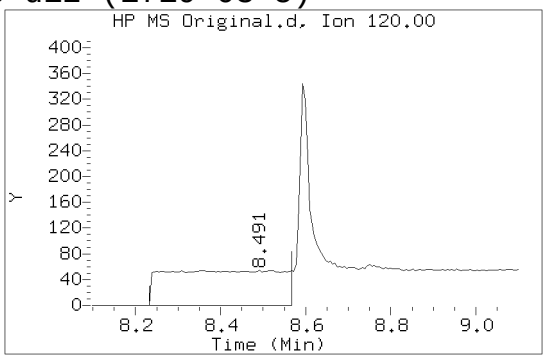
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

## Chrysene-d12 (1719-03-5)

Reason Code:

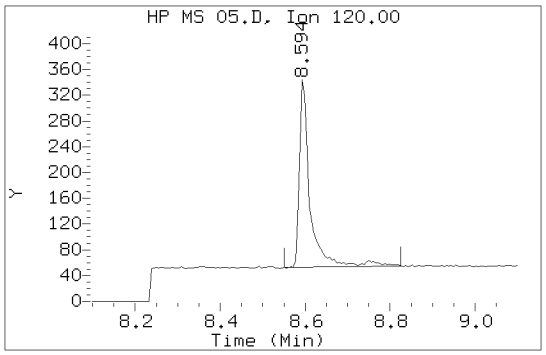
**BEFORE**

MASS
120
AREA
1053
HEIGHT
55
18-Apr-2024
13:21
ALSHS
Server



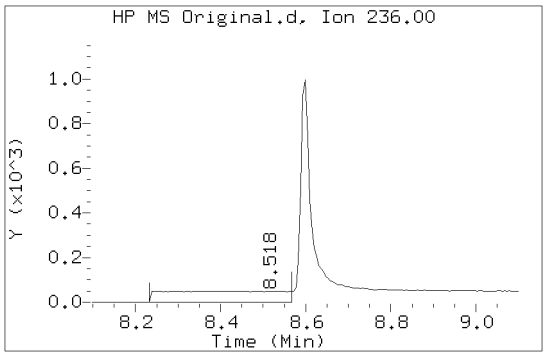

**AFTER**

MASS
120
AREA
500
HEIGHT
290
28-May-2024
13:05



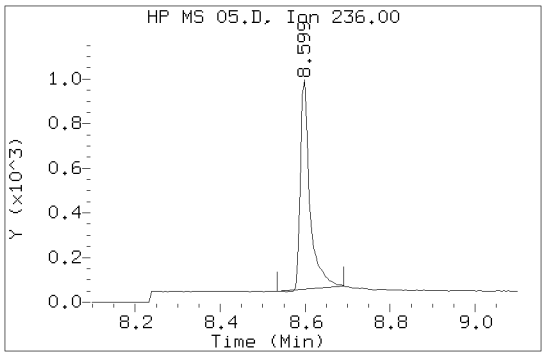

**BEFORE**

MASS
236
AREA
963
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server




**AFTER**

MASS
236
AREA
1446
HEIGHT
938
28-May-2024
13:05

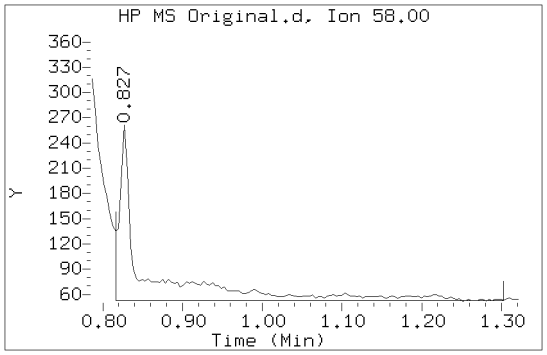



## 1,4-Dioxane ()

Reason Code:

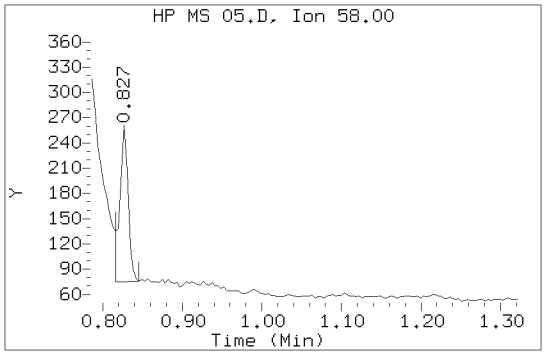
**BEFORE**

MASS
58
AREA
414
HEIGHT
208
18-Apr-2024
13:21
ALSHS
Server



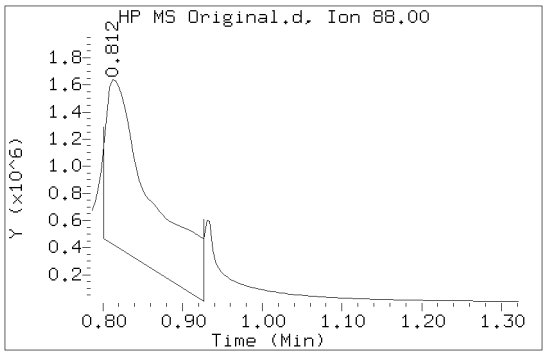

**AFTER**

MASS
58
AREA
138
HEIGHT
185
28-May-2024
13:05



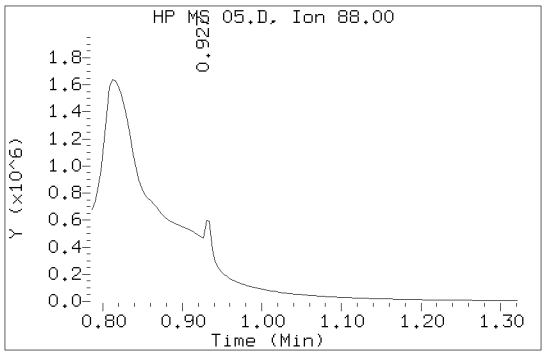

**BEFORE**

MASS
88
AREA
4998904
HEIGHT
1209480
18-Apr-2024
13:21
ALSHS
Server




**AFTER**

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

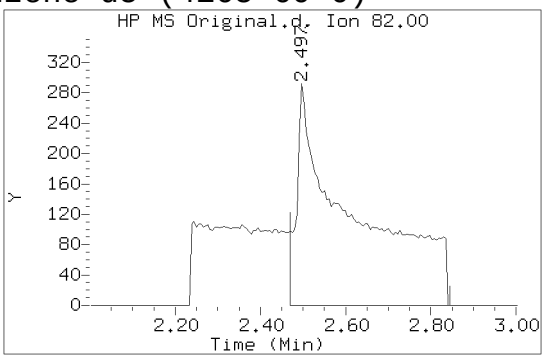


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

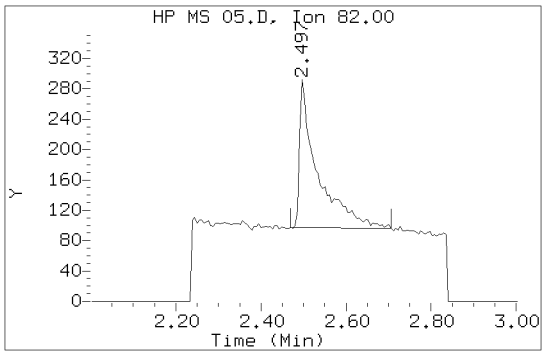
## Nitrobenzene-d5 (4165-60-0)

Reason Code:

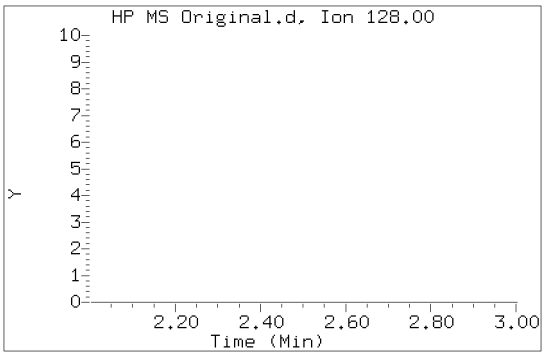
BEFORE
MASS
82
AREA
2662
HEIGHT
292
18-Apr-2024
13:21
ALSHS
Server



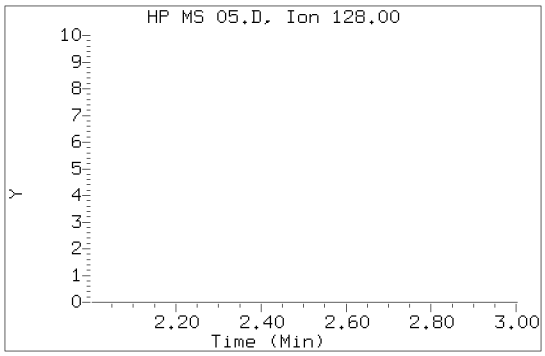

AFTER
MASS
82
AREA
570
HEIGHT
195
28-May-2024
13:05



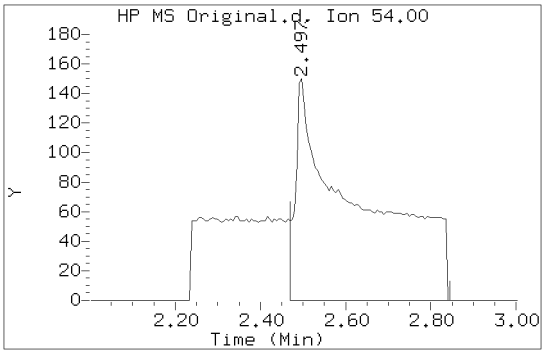

BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server



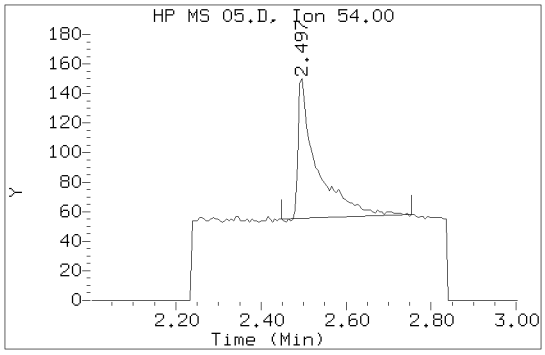

AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05




BEFORE
MASS
54
AREA
1538
HEIGHT
150
18-Apr-2024
13:21
ALSHS
Server



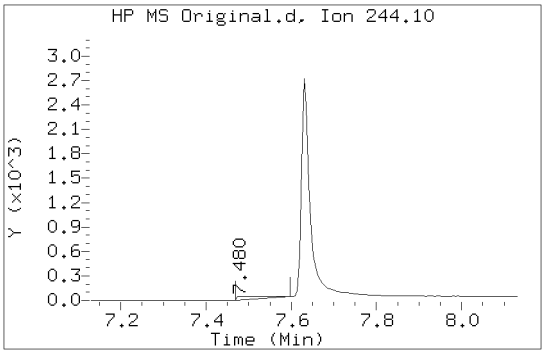

AFTER
MASS
54
AREA
289
HEIGHT
94
28-May-2024
13:05



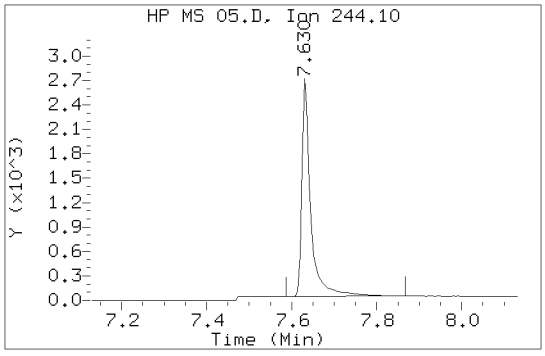

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
174
HEIGHT
44
18-Apr-2024
13:21
ALSHS
Server




AFTER
MASS
244.1
AREA
3857
HEIGHT
2674
28-May-2024
13:05



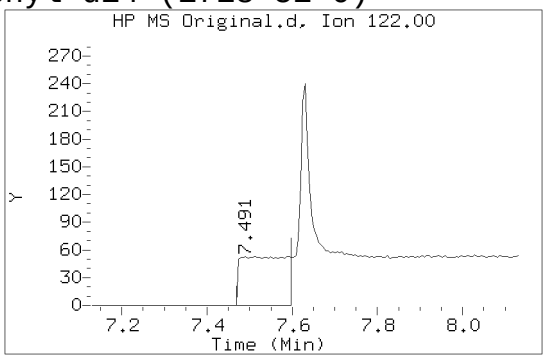
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

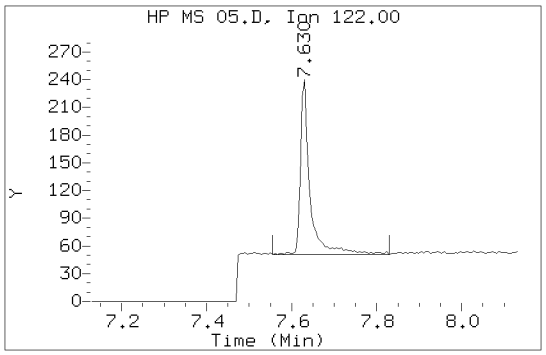
**BEFORE**

MASS
122
AREA
401
HEIGHT
53
18-Apr-2024
13:21
ALSHS
Server



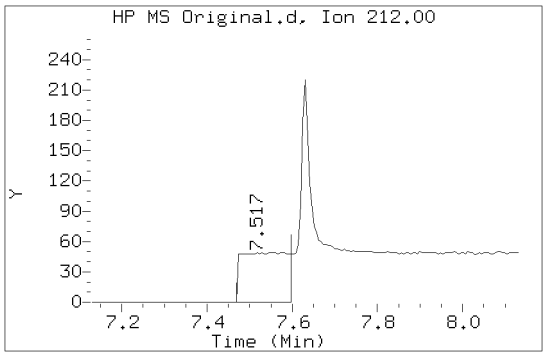

**AFTER**

MASS
122
AREA
296
HEIGHT
189
28-May-2024
13:05



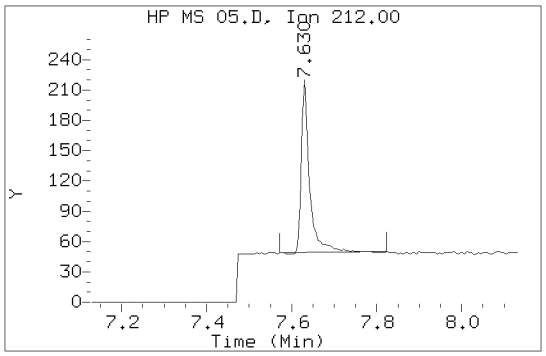

**BEFORE**

MASS
212
AREA
374
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server




**AFTER**

MASS
212
AREA
227
HEIGHT
170
28-May-2024
13:05

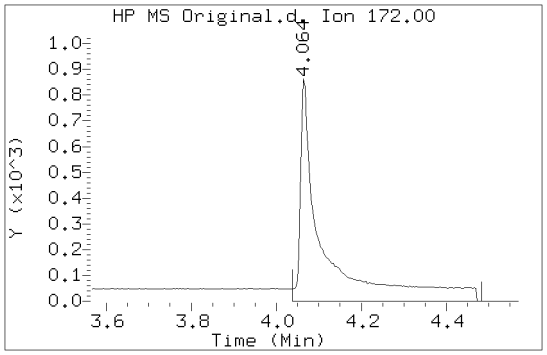



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

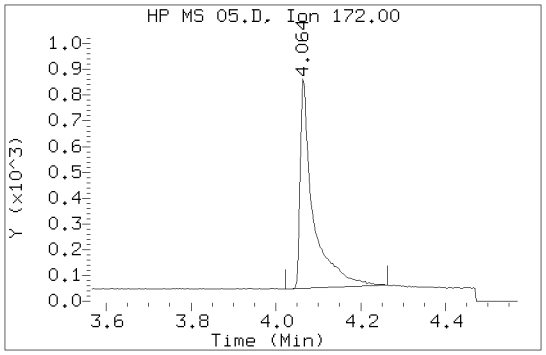
**BEFORE**

MASS
172
AREA
3193
HEIGHT
863
18-Apr-2024
13:21
ALSHS
Server



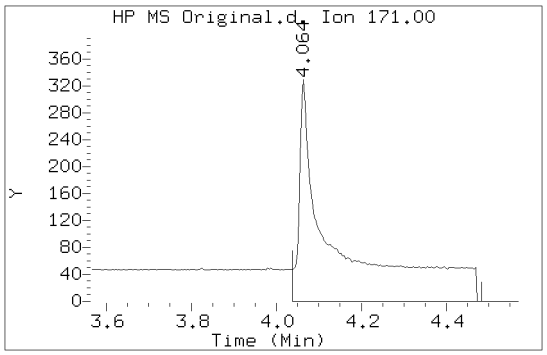

**AFTER**

MASS
172
AREA
1731
HEIGHT
812
28-May-2024
13:05



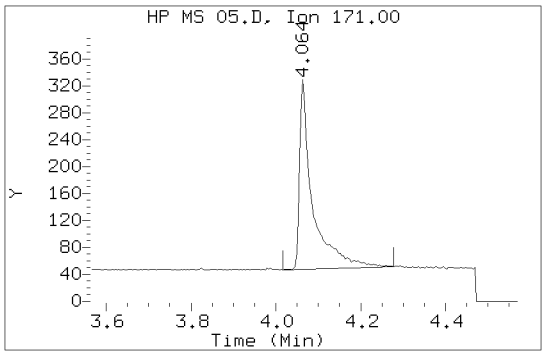

**BEFORE**

MASS
171
AREA
1906
HEIGHT
329
18-Apr-2024
13:21
ALSHS
Server




**AFTER**

MASS
171
AREA
602
HEIGHT
281
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Lab Smp Id: 14DX-0.05
Inj Date : 18-APR-2024 13:25
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:25 Cal File: 06.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | ON-COL ( NG) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 2.094 | 2.089 | (1.000) | 3152 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 3.076 | 3.076 | (1.000) | 9502 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.497 | 2.502 | (0.812) | 1589 | 0.05000 | 0.05570(M) |
| * 86 Acenaphthene-d10 | 164 | 4.665 | 4.671 | (1.000) | 6015 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 4.064 | 4.067 | (0.871) | 4588 | 0.05000 | 0.04990(M) |
| * 126 Phenanthrene-d10 | 188 | 6.065 | 6.065 | (1.000) | 11597 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 8.599 | 8.599 | (1.000) | 10029 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.630 | 7.630 | (0.887) | 10047 | 0.05000 | 0.04918(M) |
| * 198 Perylene-d12 | 264 | 10.189 | 10.189 | (1.000) | 10408 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 0.849 | 0.820 | (0.406) | 339 | 0.05000 | 0.05021(M) |

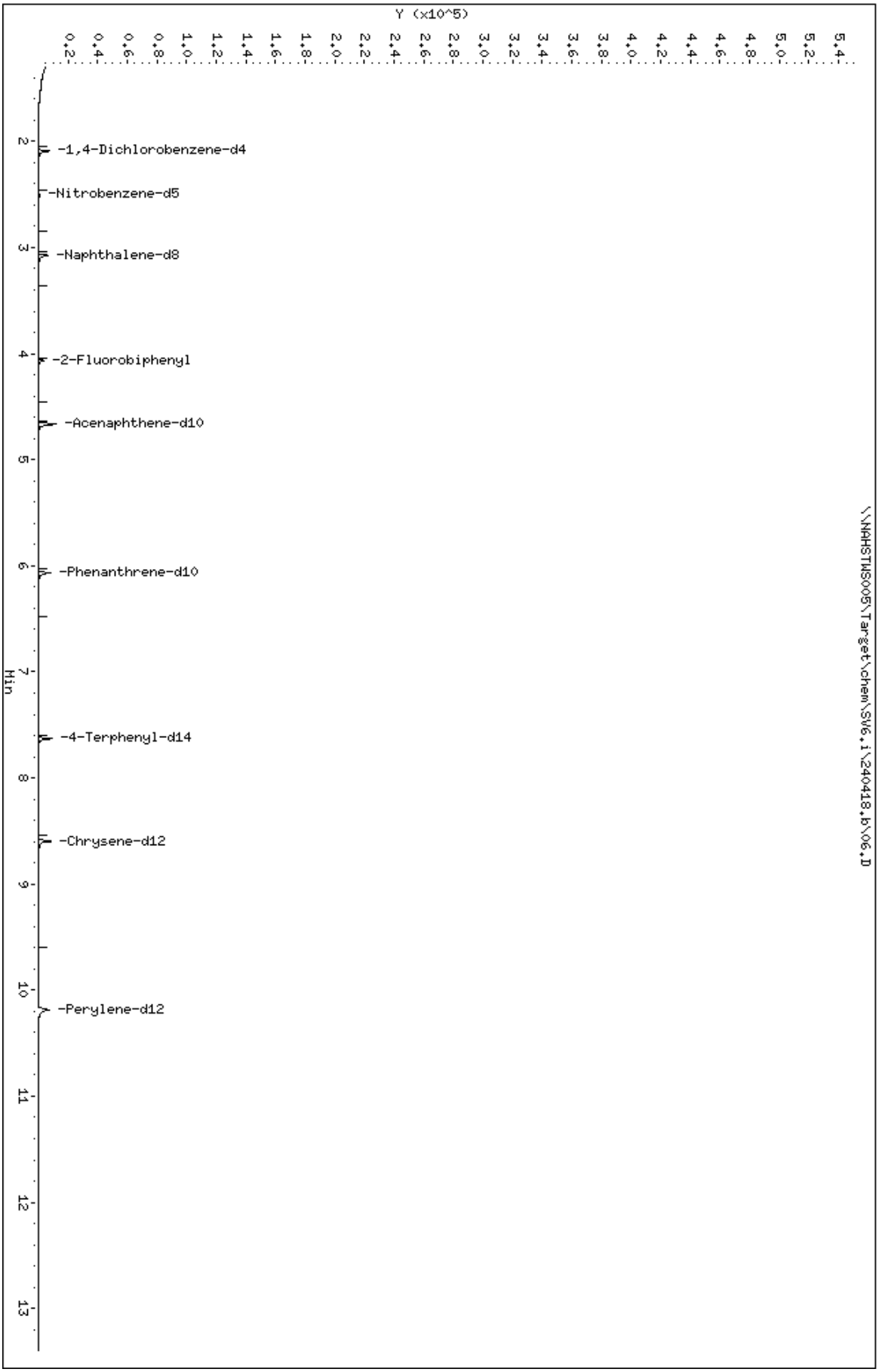
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Date : 18-APR-2024 13:25
Client ID:
Sample Info: 14DX-0.05
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



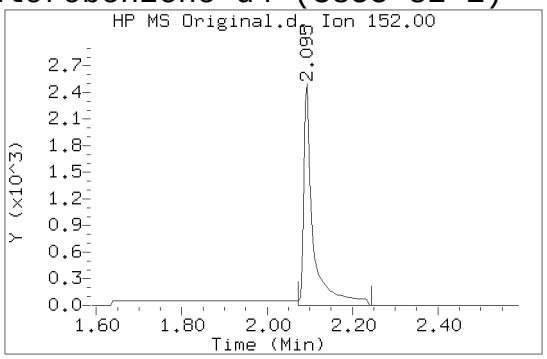


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

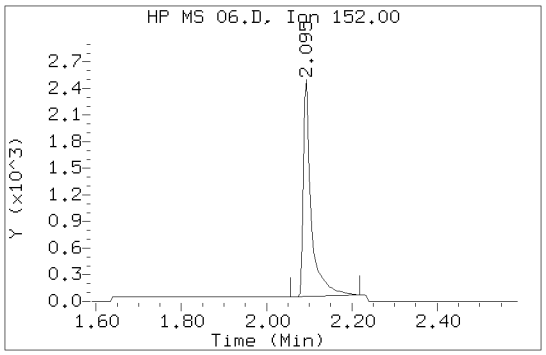
## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

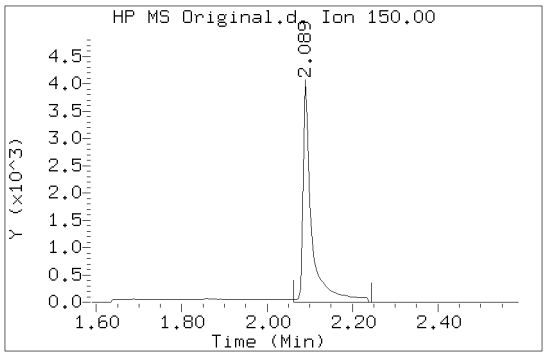
BEFORE
MASS
152
AREA
3790
HEIGHT
2499
18-Apr-2024
13:40
ALSHS
Server



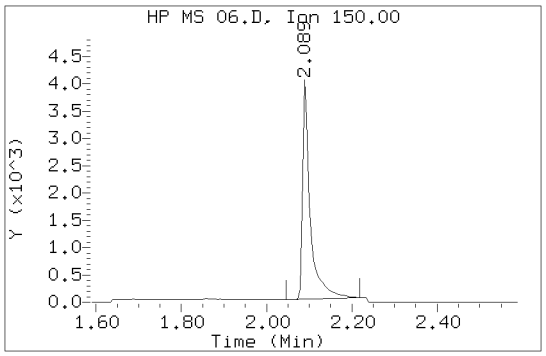

AFTER
MASS
152
AREA
3152
HEIGHT
2443
28-May-2024
13:05



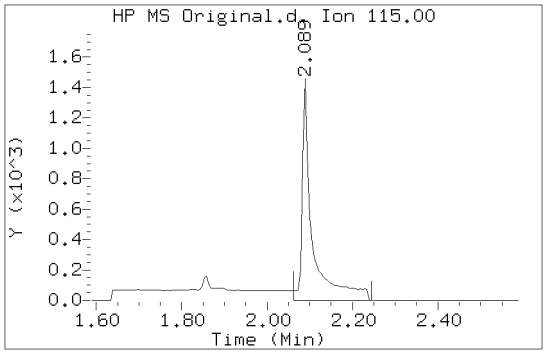

BEFORE
MASS
150
AREA
5683
HEIGHT
4072
18-Apr-2024
13:40
ALSHS
Server



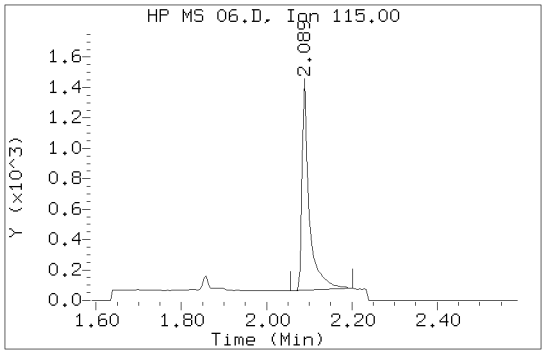

AFTER
MASS
150
AREA
4936
HEIGHT
4013
28-May-2024
13:05




BEFORE
MASS
115
AREA
2390
HEIGHT
1458
18-Apr-2024
13:40
ALSHS
Server



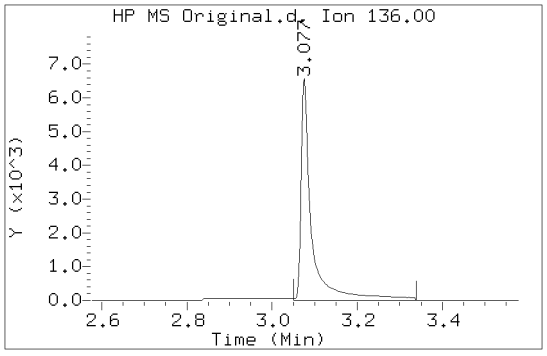

AFTER
MASS
115
AREA
1620
HEIGHT
1390
28-May-2024
13:05



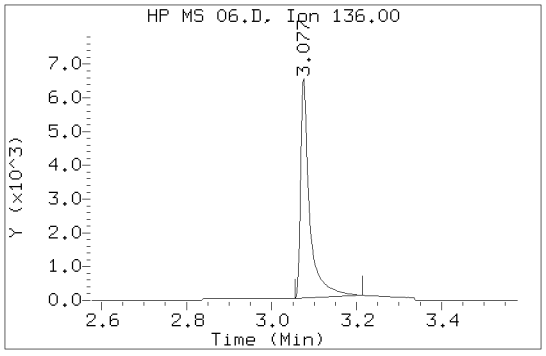

## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
11303
HEIGHT
6569
18-Apr-2024
13:40
ALSHS
Server




AFTER
MASS
136
AREA
9502
HEIGHT
6499
28-May-2024
13:05

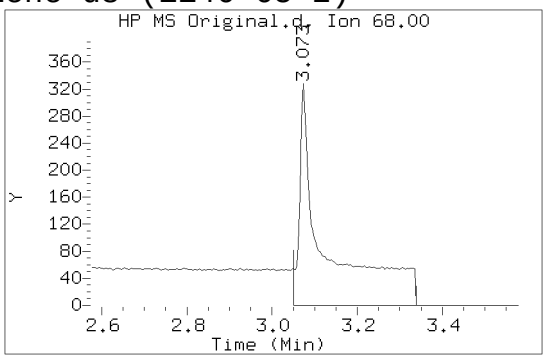


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

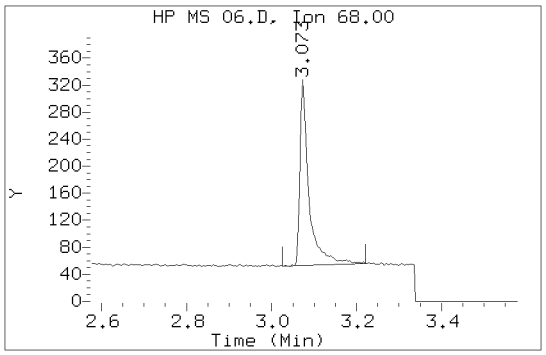
## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1344
HEIGHT
328
18-Apr-2024
13:40
ALSHS
Server



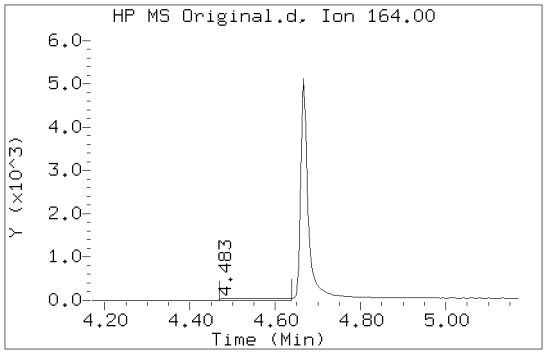

AFTER
MASS
68
AREA
401
HEIGHT
275
28-May-2024
13:05



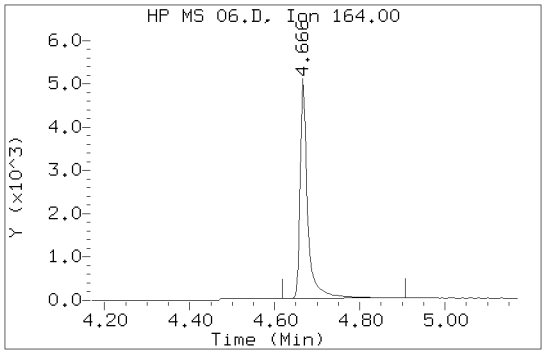

## Acenaphthene-d10 (15067-26-2)

Reason Code:

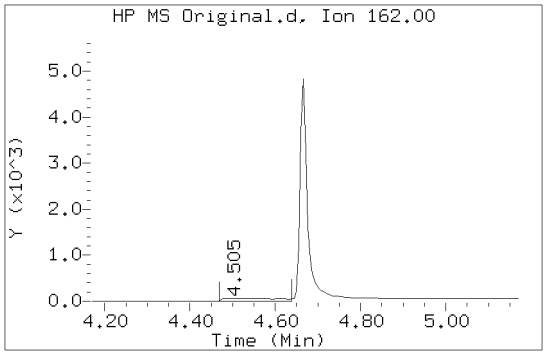
BEFORE
MASS
164
AREA
496
HEIGHT
51
18-Apr-2024
13:40
ALSHS
Server



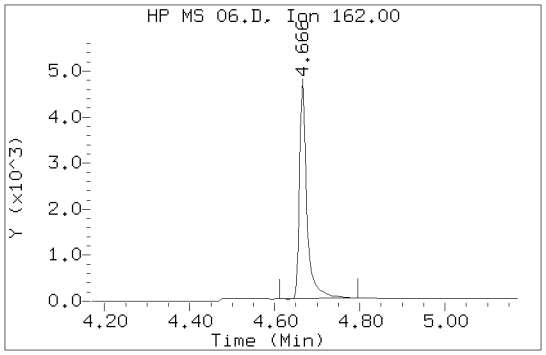

AFTER
MASS
164
AREA
6015
HEIGHT
5068
28-May-2024
13:05



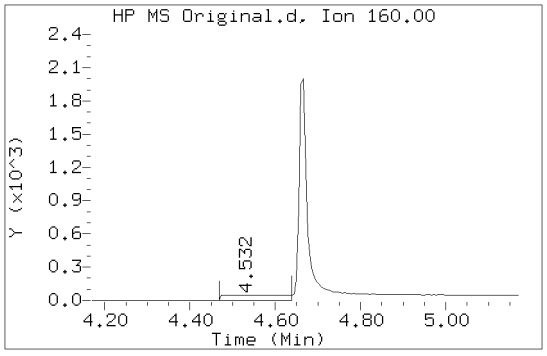

BEFORE
MASS
162
AREA
502
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



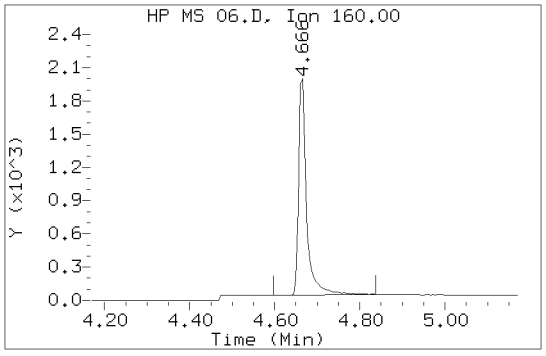

AFTER
MASS
162
AREA
5625
HEIGHT
4775
28-May-2024
13:05




BEFORE
MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server




AFTER
MASS
160
AREA
2508
HEIGHT
1951
28-May-2024
13:05



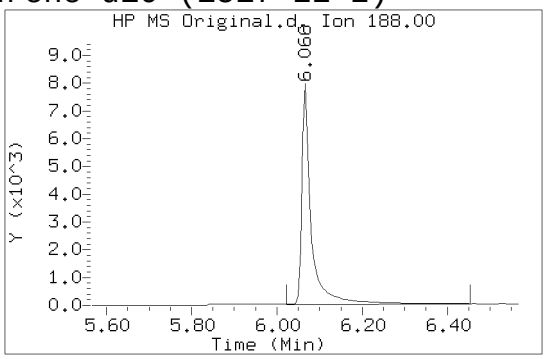
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

## Phenanthrene-d10 (1517-22-2)

Reason Code:

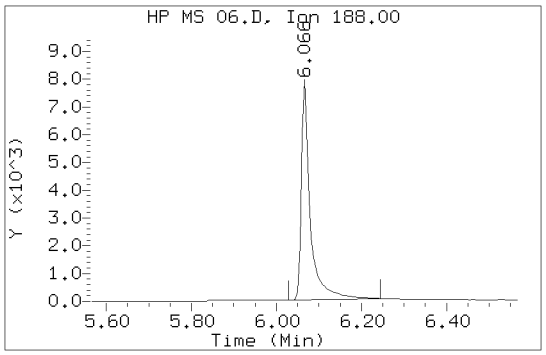
**BEFORE**

MASS
188
AREA
12630
HEIGHT
7964
18-Apr-2024
13:40
ALSHS
Server



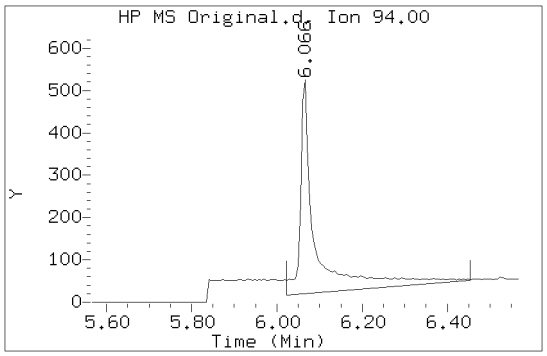

**AFTER**

MASS
188
AREA
11597
HEIGHT
7928
28-May-2024
13:05



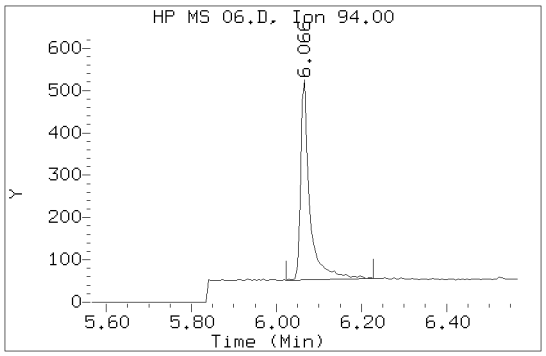

**BEFORE**

MASS
94
AREA
1254
HEIGHT
505
18-Apr-2024
13:40
ALSHS
Server



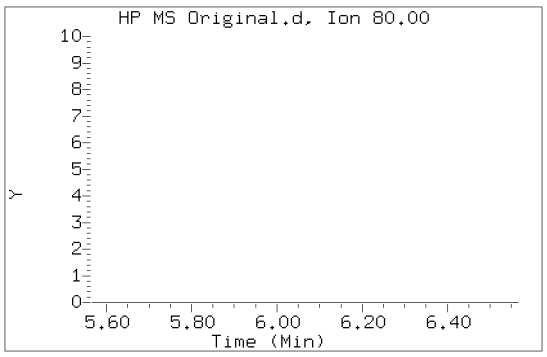

**AFTER**

MASS
94
AREA
716
HEIGHT
472
28-May-2024
13:05



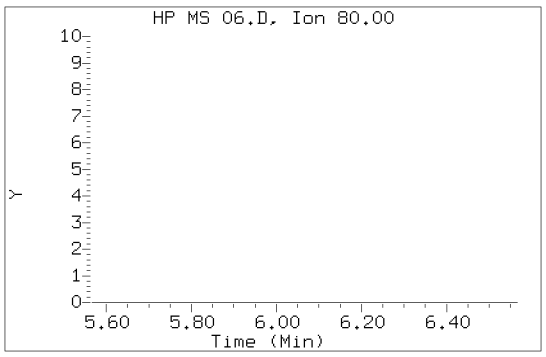

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

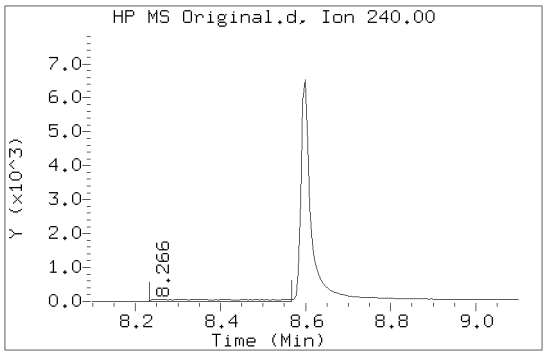



## Chrysene-d12 (1719-03-5)

Reason Code:

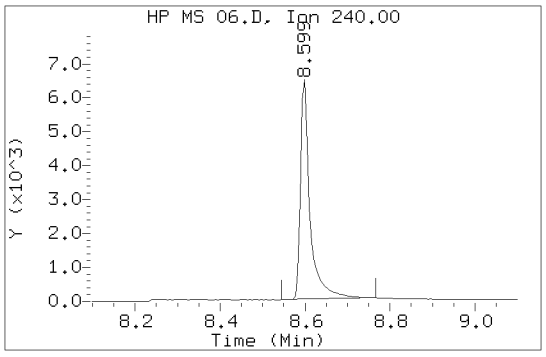
**BEFORE**

MASS
240
AREA
955
HEIGHT
50
18-Apr-2024
13:40
ALSHS
Server




**AFTER**

MASS
240
AREA
10029
HEIGHT
6473
28-May-2024
13:05



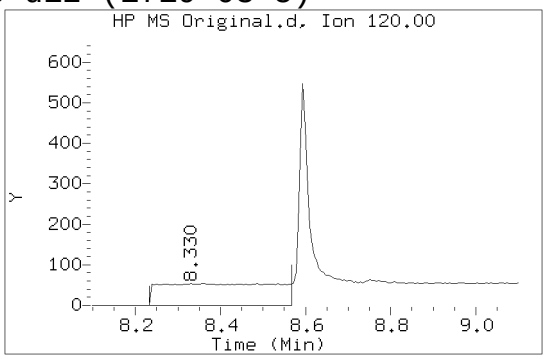
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

## Chrysene-d12 (1719-03-5)

Reason Code:

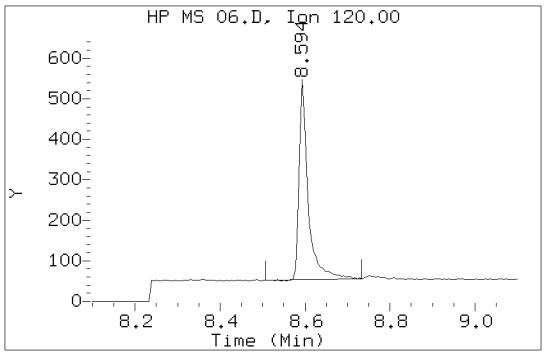
BEFORE

MASS
120
AREA
1034
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



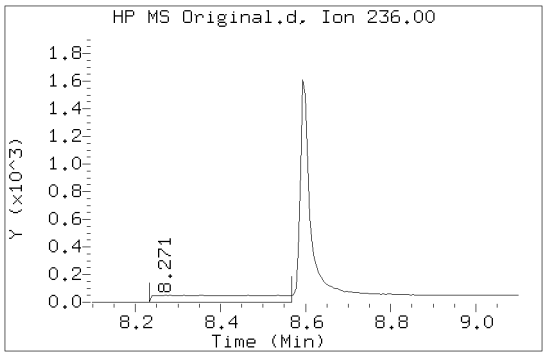

AFTER

MASS
120
AREA
729
HEIGHT
493
28-May-2024
13:05



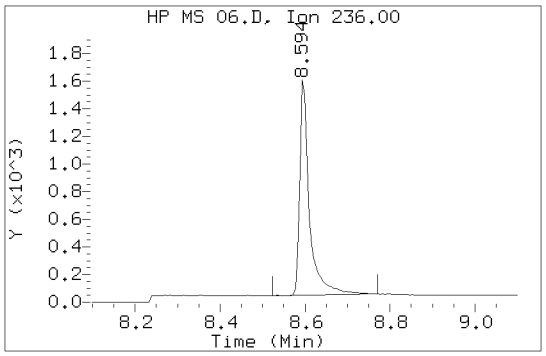

BEFORE

MASS
236
AREA
955
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server




AFTER

MASS
236
AREA
2416
HEIGHT
1557
28-May-2024
13:05

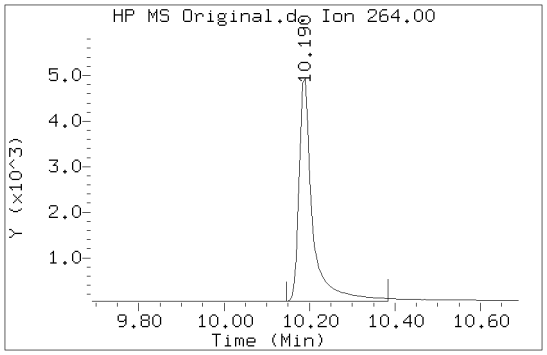



## Perylene-d12 (1520-96-3)

Reason Code:

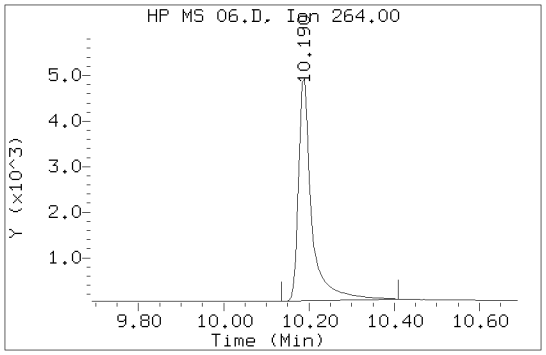
BEFORE

MASS
264
AREA
10683
HEIGHT
4875
18-Apr-2024
13:40
ALSHS
Server



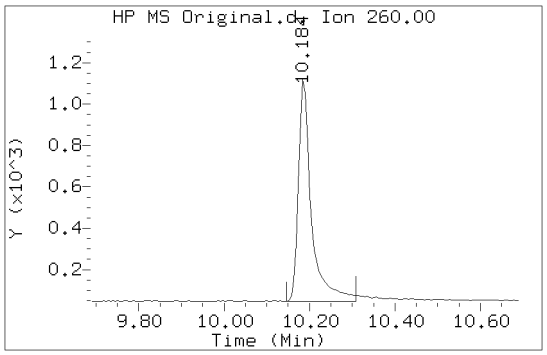

AFTER

MASS
264
AREA
10408
HEIGHT
4868
28-May-2024
13:05



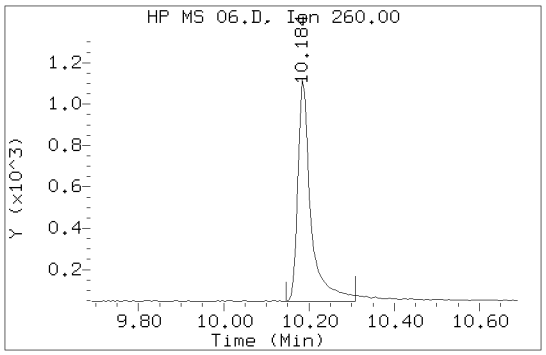

BEFORE

MASS
260
AREA
2254
HEIGHT
1070
18-Apr-2024
13:40
ALSHS
Server




AFTER

MASS
260
AREA
2254
HEIGHT
1070
28-May-2024
13:05



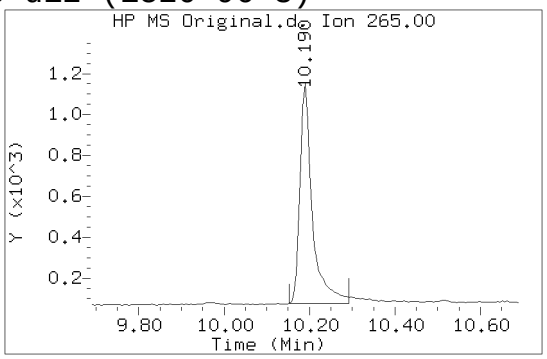
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

## Perylene-d12 (1520-96-3)

Reason Code:

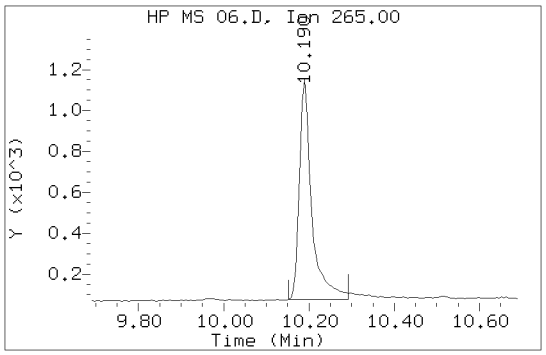
**BEFORE**

MASS
265
AREA
2161
HEIGHT
1074
18-Apr-2024
13:40
ALSHS
Server




**AFTER**

MASS
265
AREA
2161
HEIGHT
1074
28-May-2024
13:05

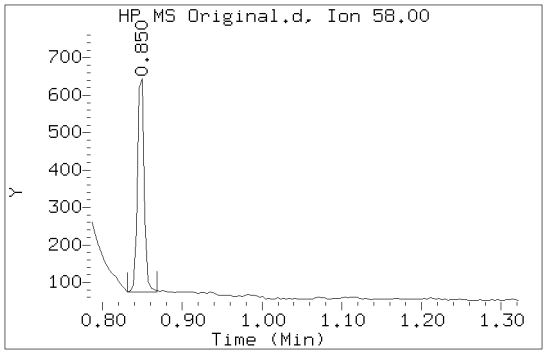



## 1,4-Dioxane ()

Reason Code:

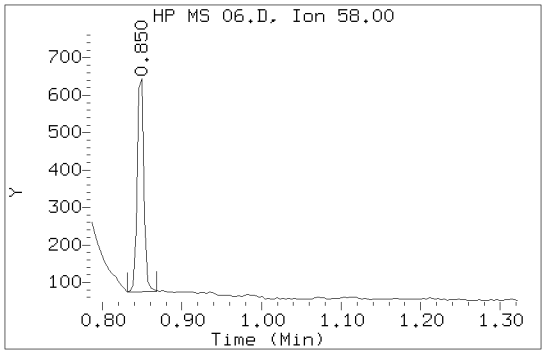
**BEFORE**

MASS
58
AREA
339
HEIGHT
569
18-Apr-2024
13:40
ALSHS
Server



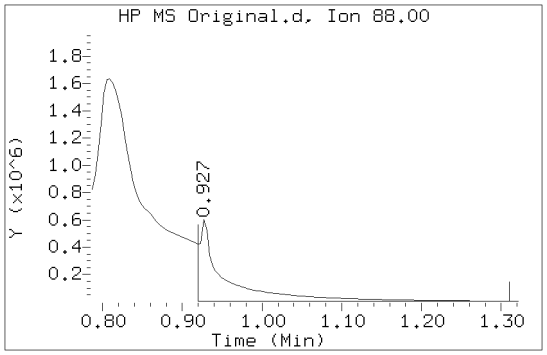

**AFTER**

MASS
58
AREA
339
HEIGHT
568
28-May-2024
13:05



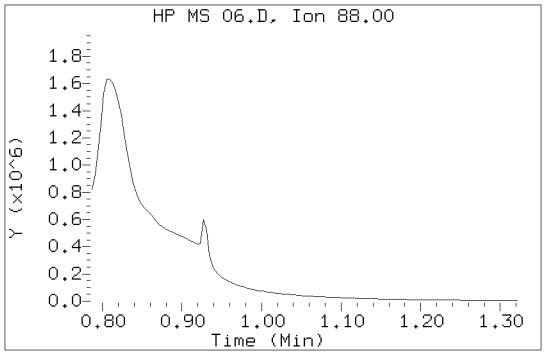

**BEFORE**

MASS
88
AREA
1337438
HEIGHT
596391
18-Apr-2024
13:40
ALSHS
Server




**AFTER**

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

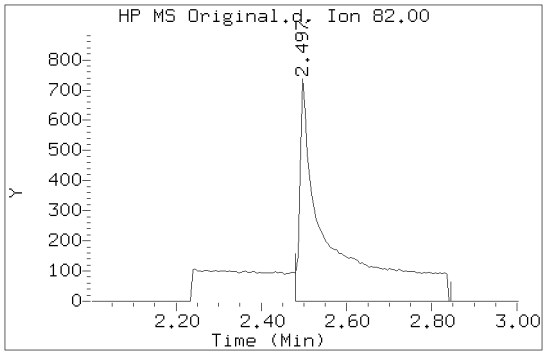



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

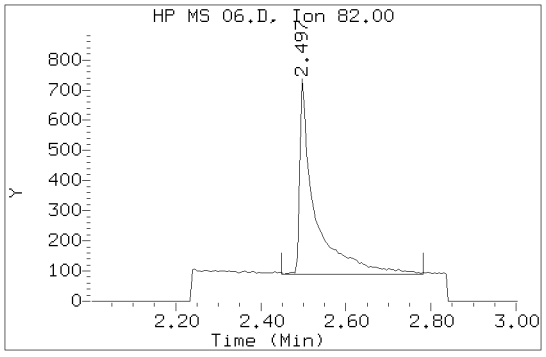
**BEFORE**

MASS
82
AREA
3516
HEIGHT
737
18-Apr-2024
13:40
ALSHS
Server




**AFTER**

MASS
82
AREA
1589
HEIGHT
647
28-May-2024
13:05

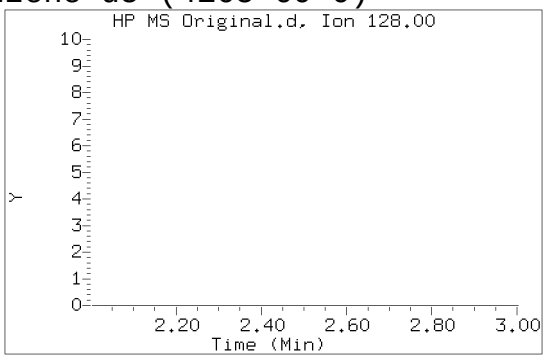


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

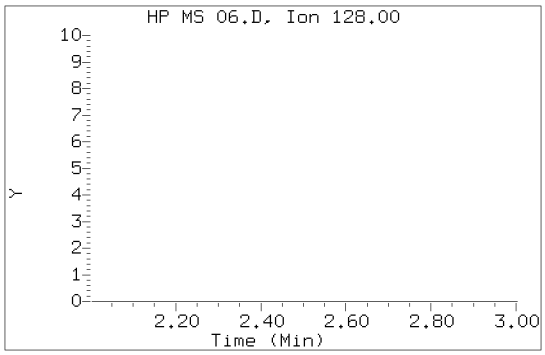
## Nitrobenzene-d5 (4165-60-0)

Reason Code:

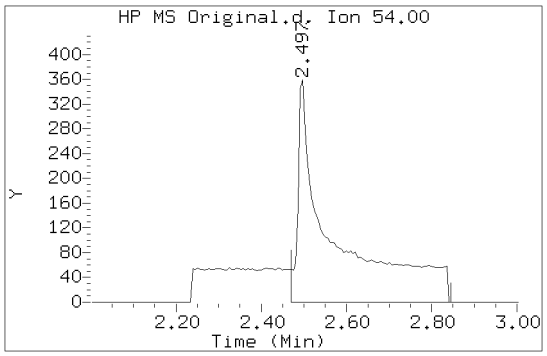
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server



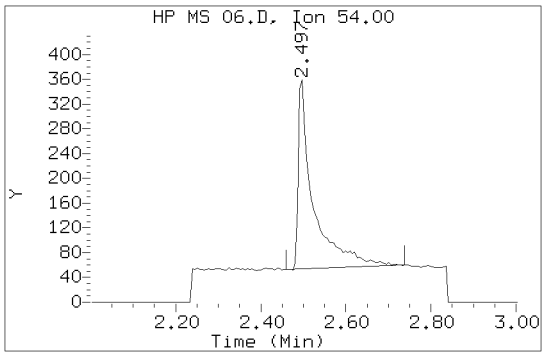

AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05




BEFORE
MASS
54
AREA
1999
HEIGHT
359
18-Apr-2024
13:40
ALSHS
Server



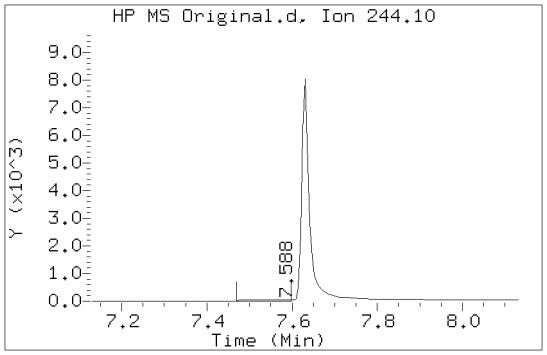

AFTER
MASS
54
AREA
745
HEIGHT
305
28-May-2024
13:05



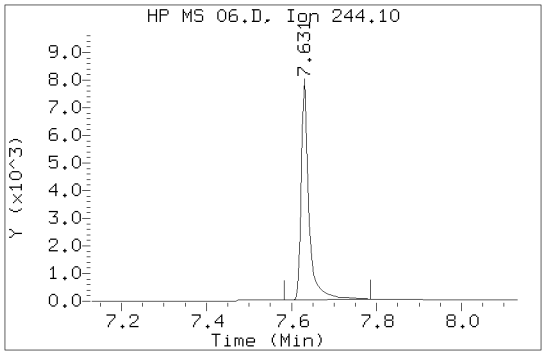

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

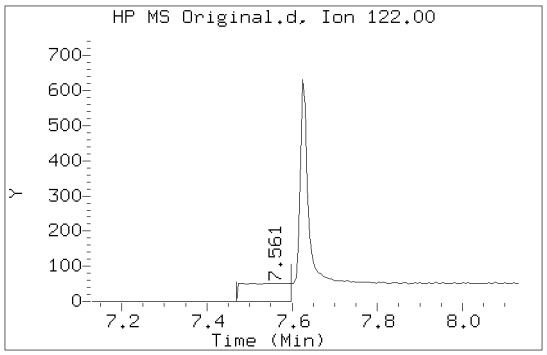
BEFORE
MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
13:40
ALSHS
Server



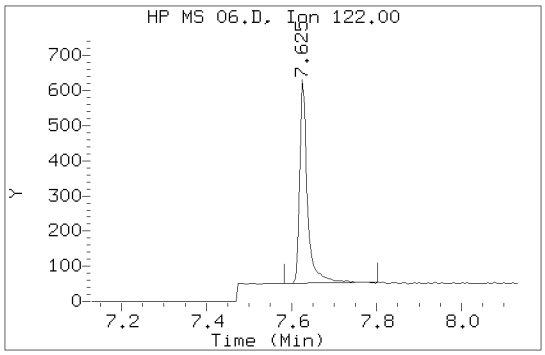

AFTER
MASS
244.1
AREA
10047
HEIGHT
7987
28-May-2024
13:05




BEFORE
MASS
122
AREA
394
HEIGHT
52
18-Apr-2024
13:40
ALSHS
Server




AFTER
MASS
122
AREA
741
HEIGHT
579
28-May-2024
13:05

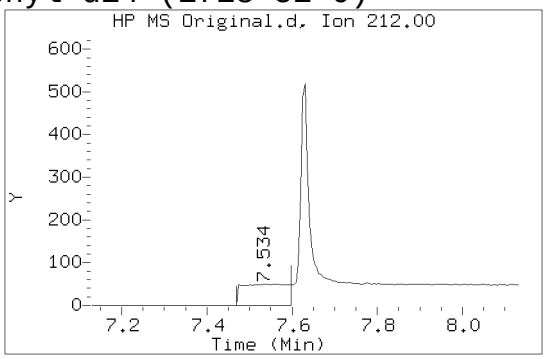


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

## 4-Terphenyl-d14 (1718-51-0)

**BEFORE**

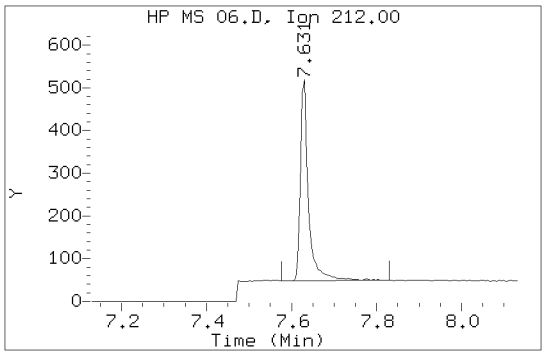
MASS
212
AREA
372
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server




**AFTER**

MASS
212
AREA
623
HEIGHT
470
28-May-2024
13:05

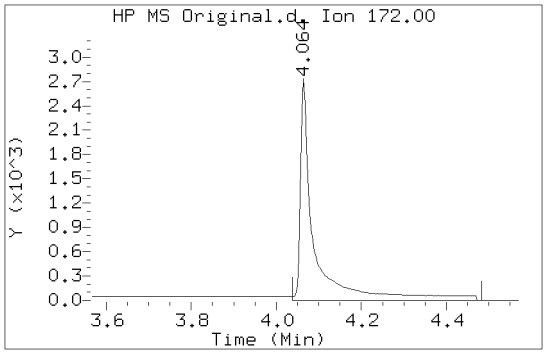
Reason Code:




## 2-Fluorobiphenyl (321-60-8)

**BEFORE**

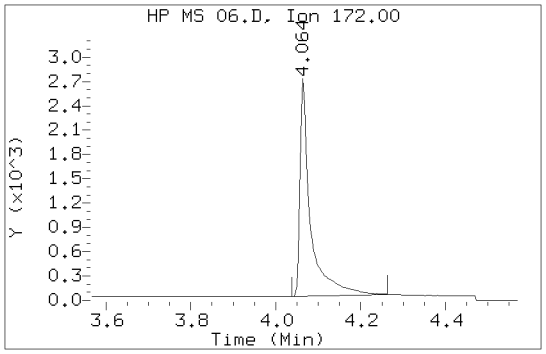
MASS
172
AREA
6214
HEIGHT
2735
18-Apr-2024
13:40
ALSHS
Server




**AFTER**

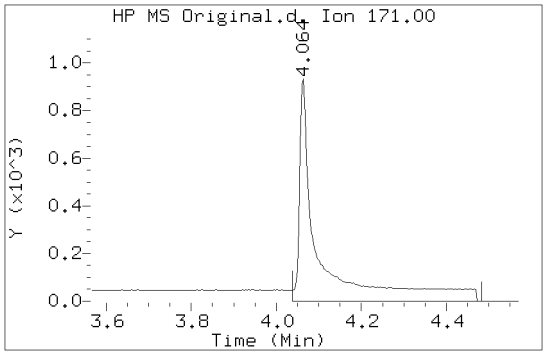
MASS
172
AREA
4588
HEIGHT
2684
28-May-2024
13:05

Reason Code:



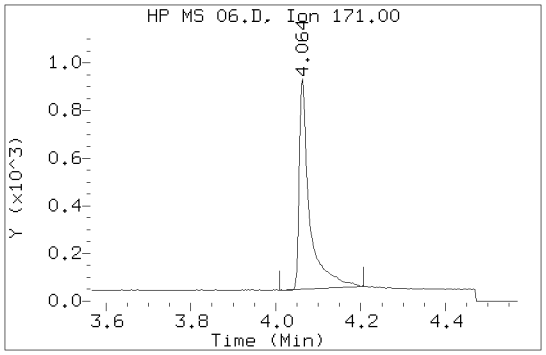

**BEFORE**

MASS
171
AREA
2920
HEIGHT
933
18-Apr-2024
13:40
ALSHS
Server




**AFTER**

MASS
171
AREA
1481
HEIGHT
881
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Lab Smp Id: 14DX-0.10
Inj Date : 18-APR-2024 13:42
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:42 Cal File: 07.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | AMOUNTS ON-COL ( NG) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 2.089 | 2.089 | (1.000) | 2318 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 3.076 | 3.076 | (1.000) | 7718 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.496 | 2.502 | (0.812) | 2452 | 0.10000 | 0.1058(M) |
| * 86 Acenaphthene-d10 | 164 | 4.665 | 4.671 | (1.000) | 4530 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 4.063 | 4.067 | (0.871) | 7366 | 0.10000 | 0.1064(M) |
| * 126 Phenanthrene-d10 | 188 | 6.065 | 6.065 | (1.000) | 8772 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 8.599 | 8.599 | (1.000) | 7453 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.630 | 7.630 | (0.887) | 15672 | 0.10000 | 0.1032(M) |
| * 198 Perylene-d12 | 264 | 10.189 | 10.189 | (1.000) | 7806 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 0.827 | 0.820 | (0.396) | 473 | 0.10000 | 0.09527(QM) |

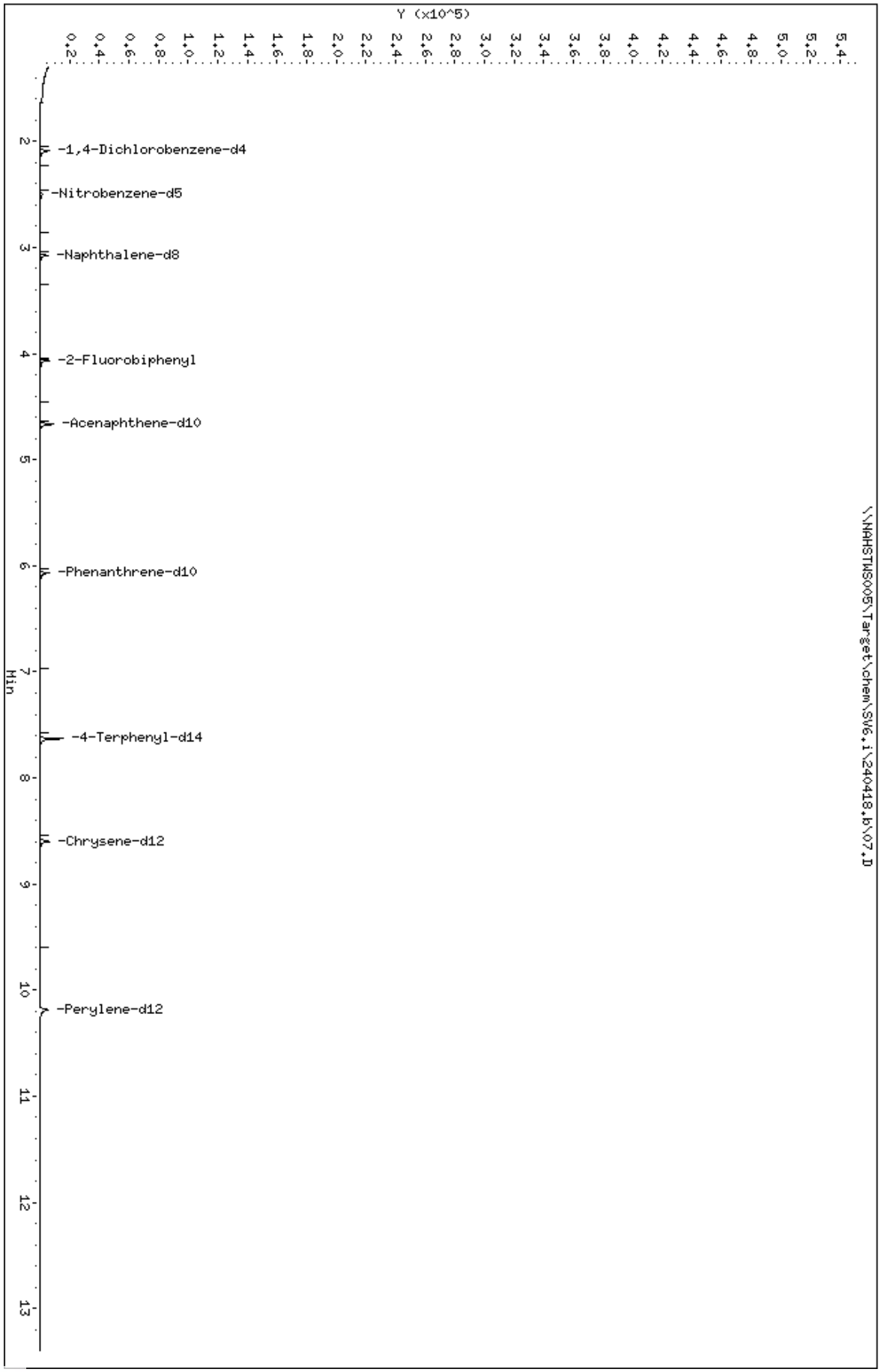
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Date : 18-APR-2024 13:42
Client ID:
Sample Info: 14DX-0.10
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



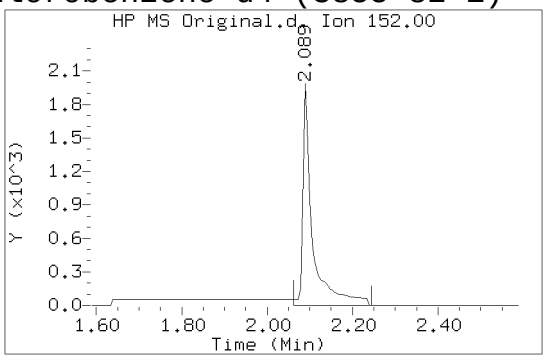


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

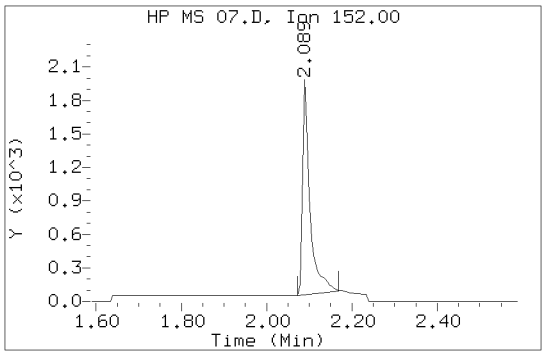
## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

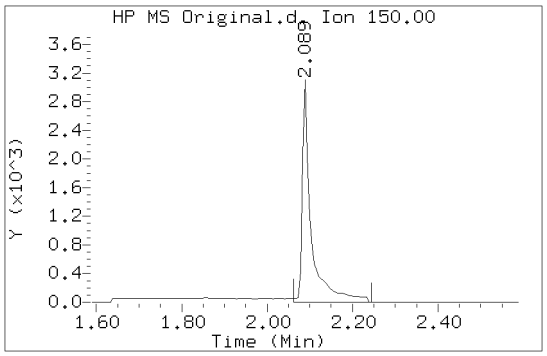
BEFORE
MASS
152
AREA
3091
HEIGHT
1986
18-Apr-2024
13:57
ALSHS
Server



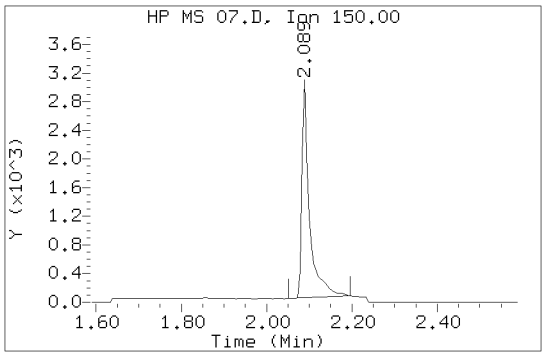

AFTER
MASS
152
AREA
2318
HEIGHT
1925
23-May-2024
08:54



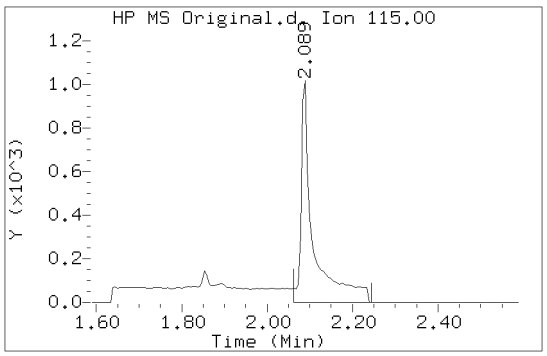

BEFORE
MASS
150
AREA
4519
HEIGHT
3105
18-Apr-2024
13:57
ALSHS
Server



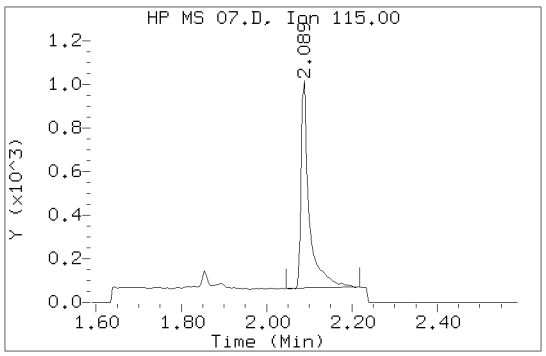

AFTER
MASS
150
AREA
3766
HEIGHT
3045
23-May-2024
08:54




BEFORE
MASS
115
AREA
1993
HEIGHT
1016
18-Apr-2024
13:57
ALSHS
Server



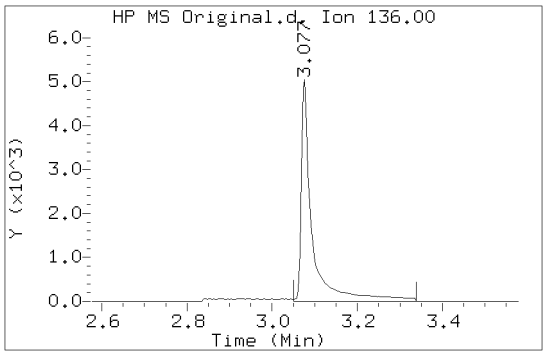

AFTER
MASS
115
AREA
1271
HEIGHT
950
23-May-2024
08:54



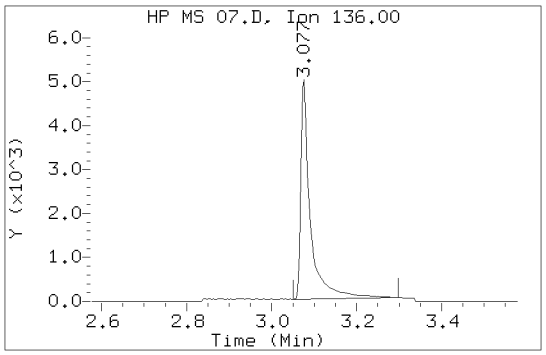

## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8891
HEIGHT
5045
18-Apr-2024
13:57
ALSHS
Server




AFTER
MASS
136
AREA
7718
HEIGHT
4990
23-May-2024
08:54



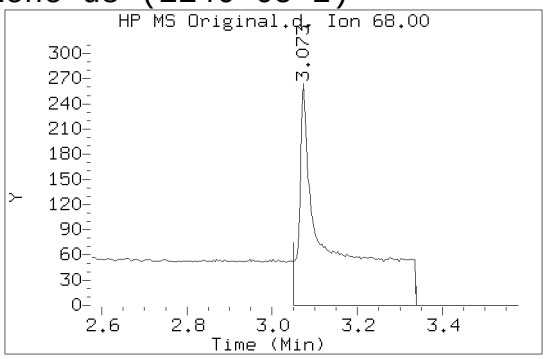
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

## Naphthalene-d8 (1146-65-2)

Reason Code:

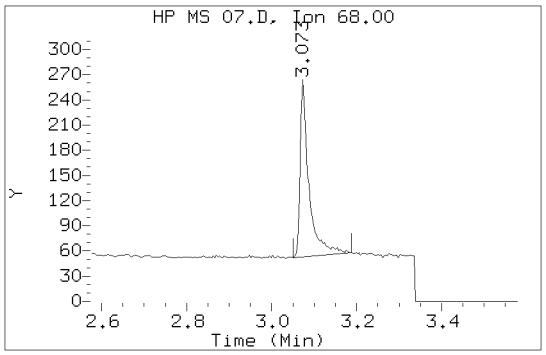
**BEFORE**

MASS
68
AREA
1251
HEIGHT
264
18-Apr-2024
13:57
ALSHS
Server




**AFTER**

MASS
68
AREA
296
HEIGHT
211
23-May-2024
08:54

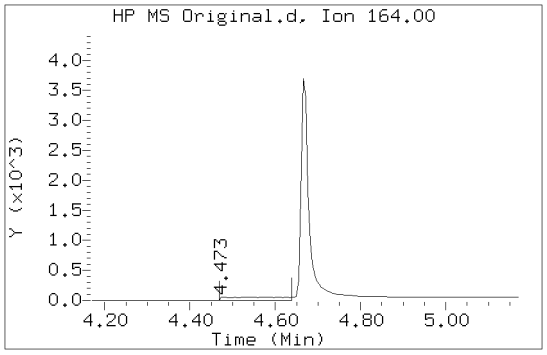



## Acenaphthene-d10 (15067-26-2)

Reason Code:

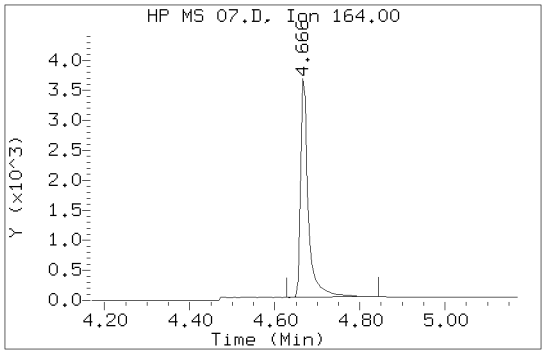
**BEFORE**

MASS
164
AREA
497
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server



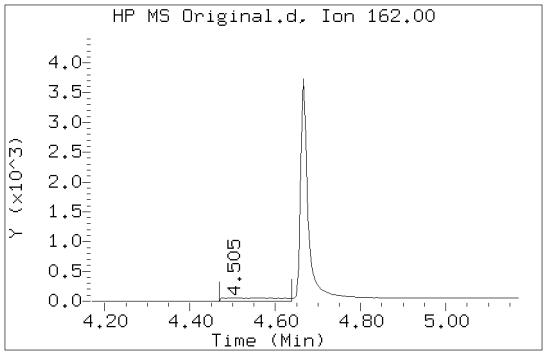

**AFTER**

MASS
164
AREA
4530
HEIGHT
3643
23-May-2024
08:54



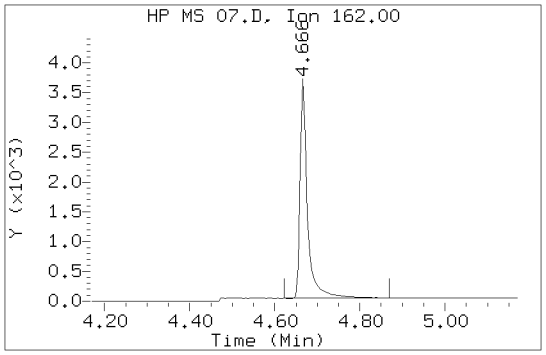

**BEFORE**

MASS
162
AREA
500
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



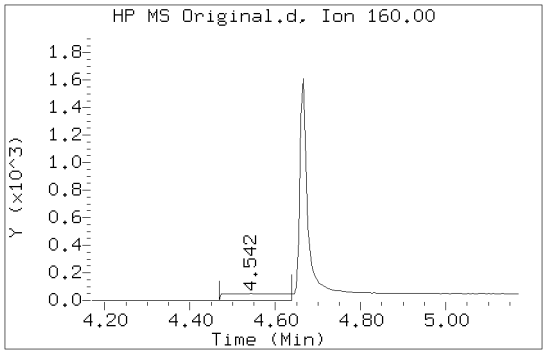

**AFTER**

MASS
162
AREA
4355
HEIGHT
3679
23-May-2024
08:54



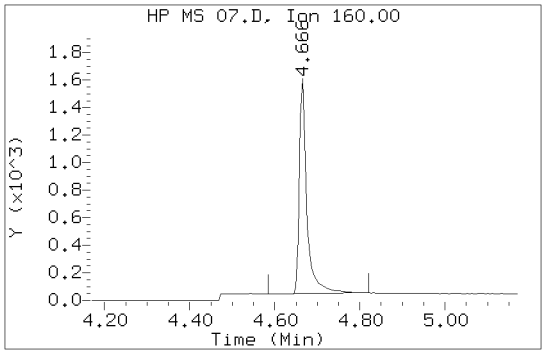

**BEFORE**

MASS
160
AREA
483
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server




**AFTER**

MASS
160
AREA
1883
HEIGHT
1560
23-May-2024
08:54



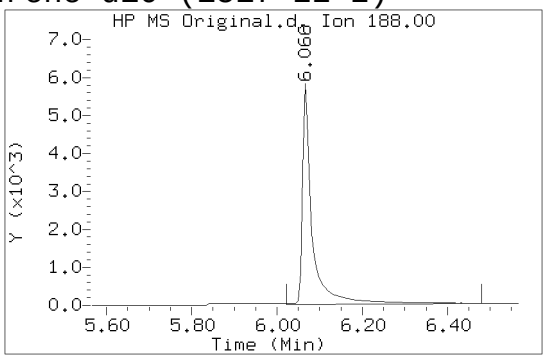
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

## Phenanthrene-d10 (1517-22-2)

Reason Code:

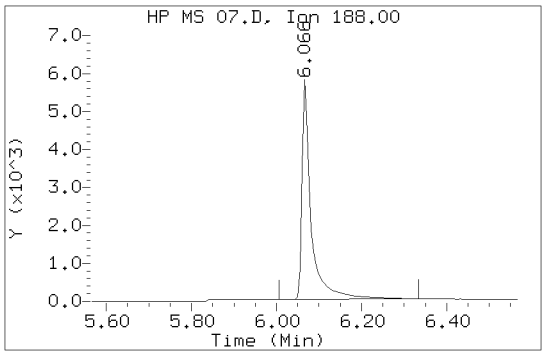
**BEFORE**

MASS
188
AREA
9529
HEIGHT
5821
18-Apr-2024
13:57
ALSHS
Server



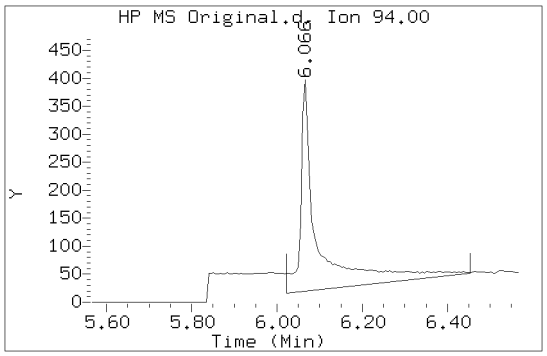

**AFTER**

MASS
188
AREA
8772
HEIGHT
5788
23-May-2024
08:54



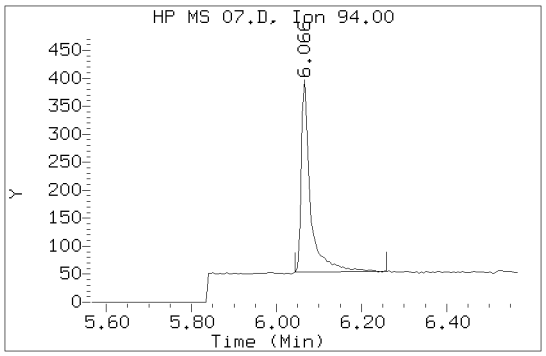

**BEFORE**

MASS
94
AREA
1042
HEIGHT
377
18-Apr-2024
13:57
ALSHS
Server



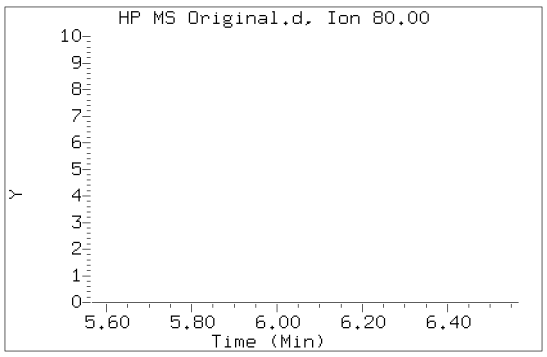

**AFTER**

MASS
94
AREA
518
HEIGHT
342
23-May-2024
08:54



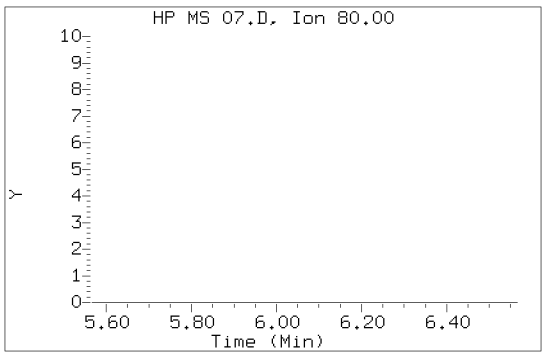

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
23-May-2024
08:54

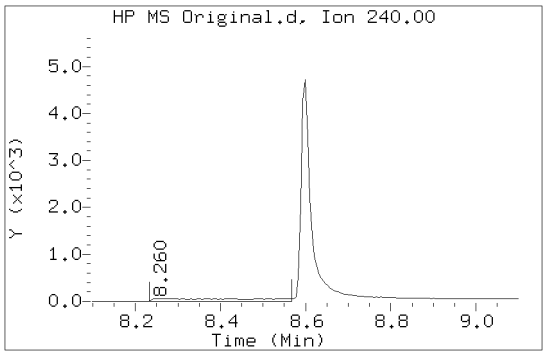



## Chrysene-d12 (1719-03-5)

Reason Code:

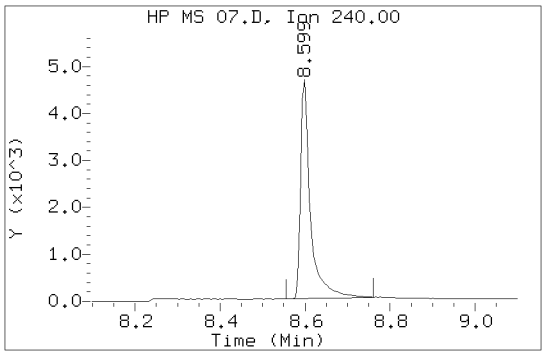
**BEFORE**

MASS
240
AREA
957
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server




**AFTER**

MASS
240
AREA
7453
HEIGHT
4662
23-May-2024
08:54



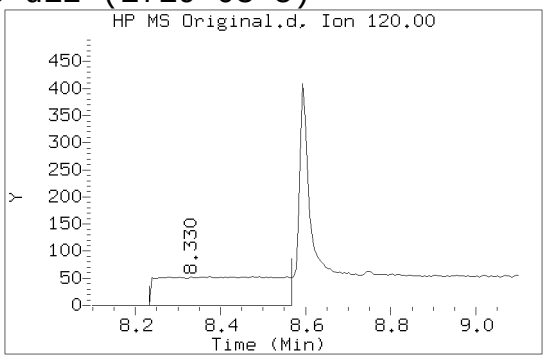
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

## Chrysene-d12 (1719-03-5)

Reason Code:

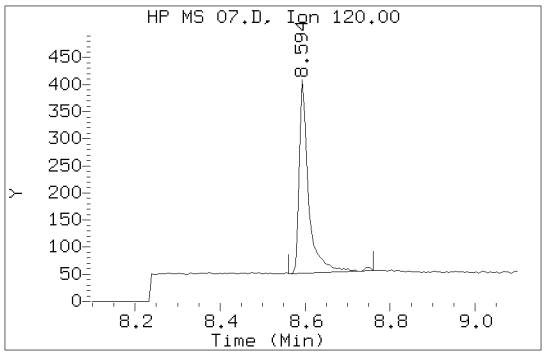
**BEFORE**

MASS
120
AREA
1029
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



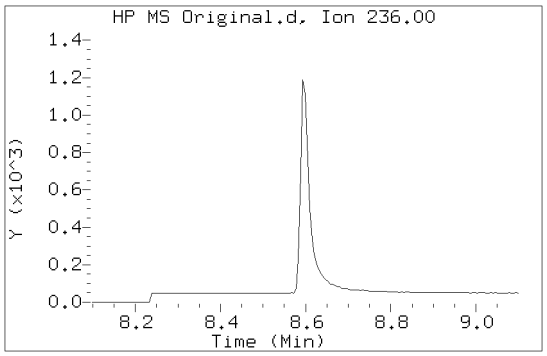

**AFTER**

MASS
120
AREA
541
HEIGHT
357
23-May-2024
08:54



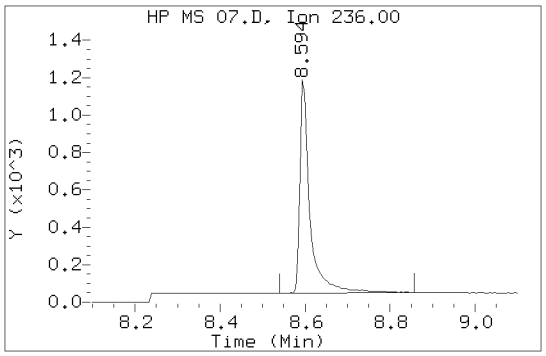

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server




**AFTER**

MASS
236
AREA
1875
HEIGHT
1139
23-May-2024
08:54

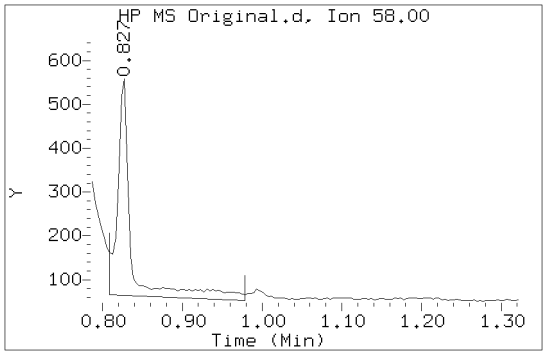



## 1,4-Dioxane ()

Reason Code:

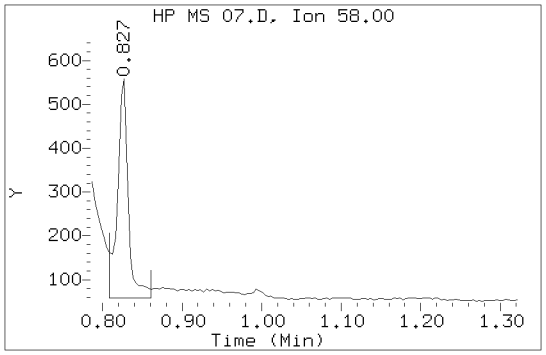
**BEFORE**

MASS
58
AREA
589
HEIGHT
493
18-Apr-2024
13:57
ALSHS
Server



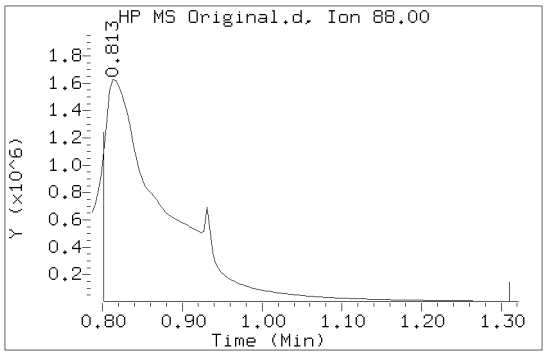

**AFTER**

MASS
58
AREA
473
HEIGHT
499
23-May-2024
08:54



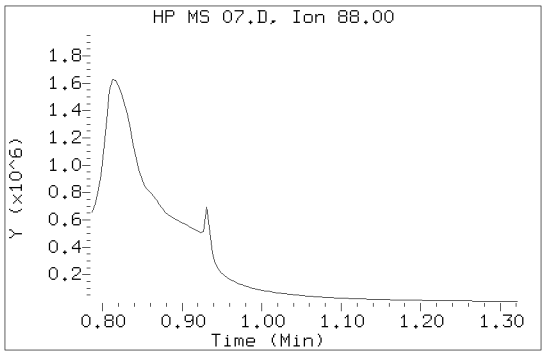

**BEFORE**

MASS
88
AREA
8266937
HEIGHT
1620371
18-Apr-2024
13:57
ALSHS
Server




**AFTER**

MASS
88
AREA
8281553
HEIGHT
1620838
23-May-2024
08:54

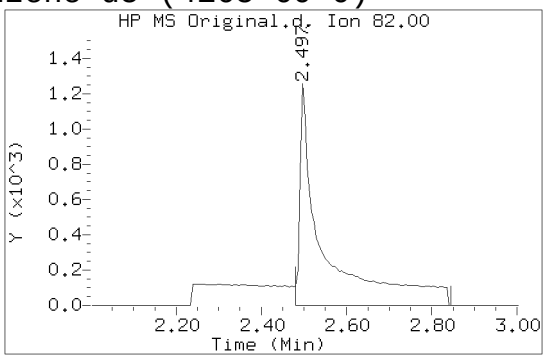


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

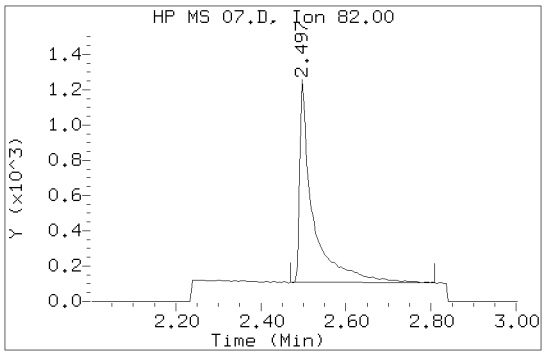
## Nitrobenzene-d5 (4165-60-0)

Reason Code:

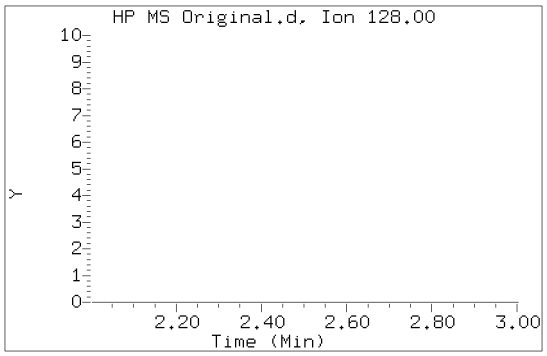
BEFORE
MASS
82
AREA
4733
HEIGHT
1257
18-Apr-2024
13:57
ALSHS
Server



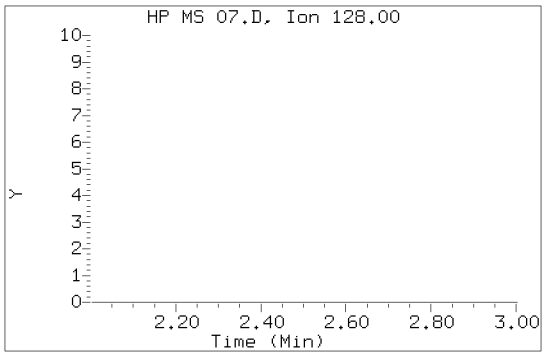

AFTER
MASS
82
AREA
2452
HEIGHT
1148
23-May-2024
08:54



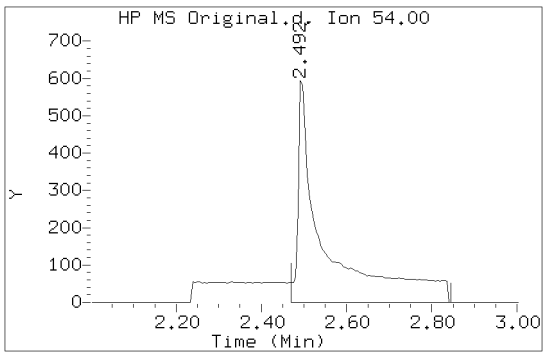

BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



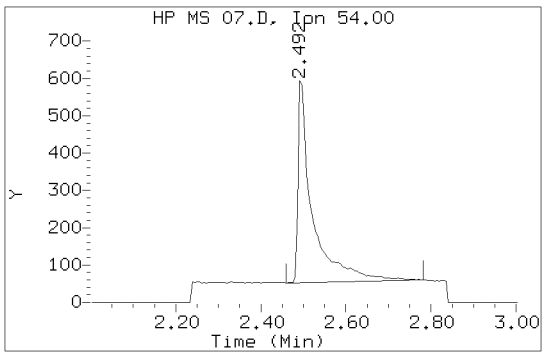

AFTER
MASS
128
AREA
0
HEIGHT
0
23-May-2024
08:54




BEFORE
MASS
54
AREA
2506
HEIGHT
594
18-Apr-2024
13:57
ALSHS
Server



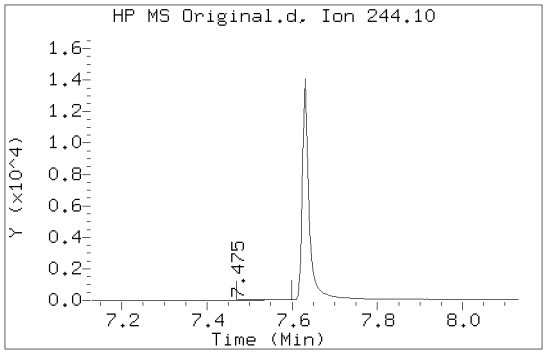

AFTER
MASS
54
AREA
1263
HEIGHT
541
23-May-2024
08:54



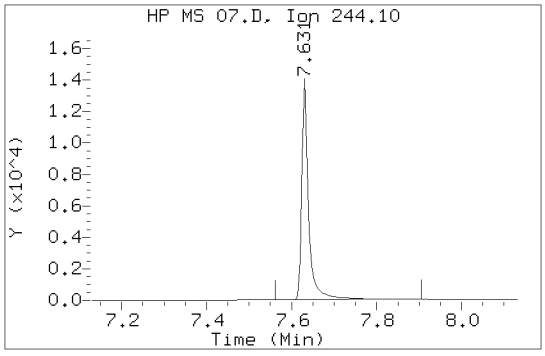

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
172
HEIGHT
45
18-Apr-2024
13:57
ALSHS
Server




AFTER
MASS
244.1
AREA
15672
HEIGHT
14035
23-May-2024
08:54



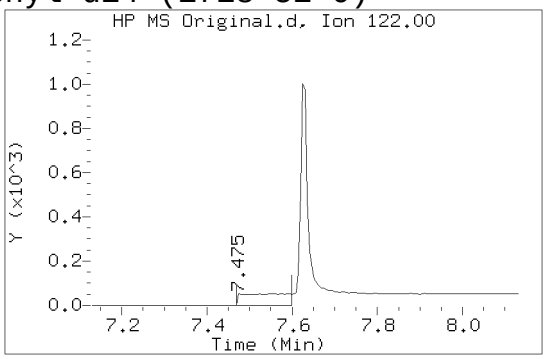
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

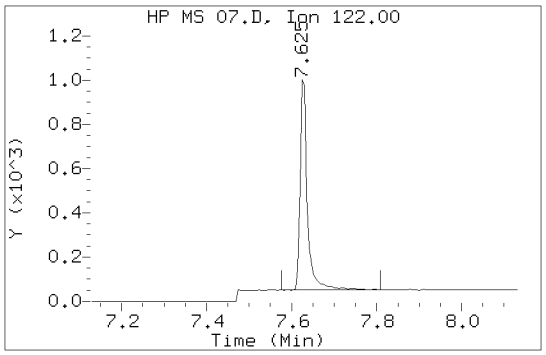
**BEFORE**

MASS
122
AREA
389
HEIGHT
51
18-Apr-2024
13:57
ALSHS
Server



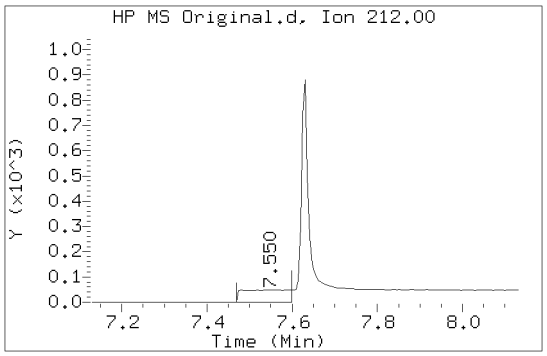

**AFTER**

MASS
122
AREA
1143
HEIGHT
950
23-May-2024
08:54



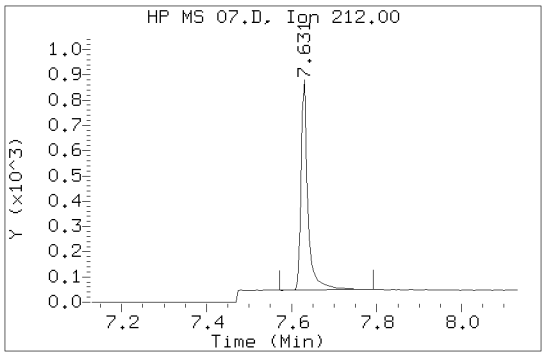

**BEFORE**

MASS
212
AREA
368
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server




**AFTER**

MASS
212
AREA
942
HEIGHT
831
23-May-2024
08:54

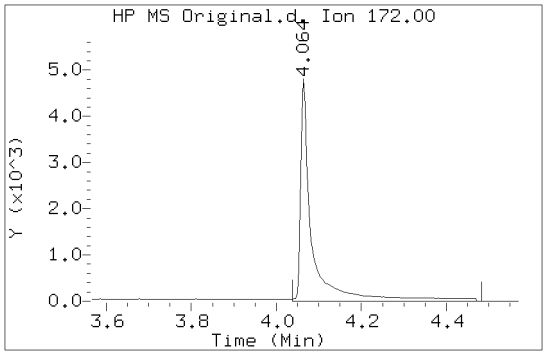



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

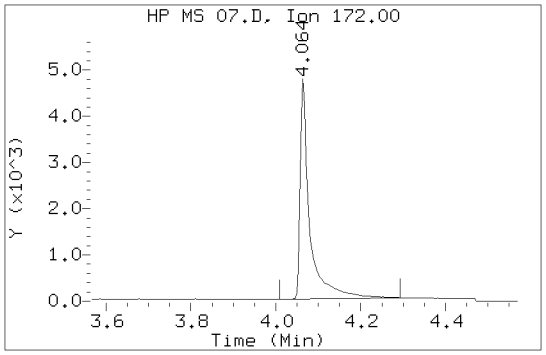
**BEFORE**

MASS
172
AREA
9042
HEIGHT
4809
18-Apr-2024
13:57
ALSHS
Server



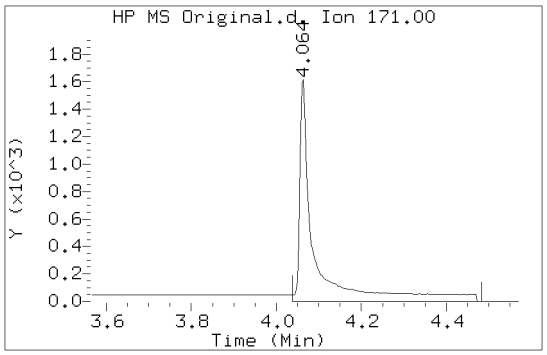

**AFTER**

MASS
172
AREA
7366
HEIGHT
4757
23-May-2024
08:54



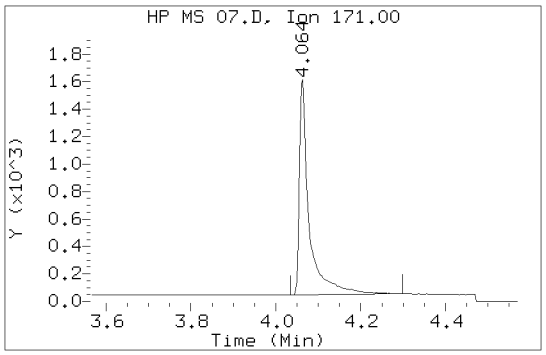

**BEFORE**

MASS
171
AREA
3879
HEIGHT
1615
18-Apr-2024
13:57
ALSHS
Server




**AFTER**

MASS
171
AREA
2501
HEIGHT
1566
23-May-2024
08:54



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Lab Smp Id: 14DX-0.15
Inj Date : 18-APR-2024 14:00
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:00 Cal File: 08.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | ON-COL ( NG) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 2.094 | 2.089 | (1.000) | 3084 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 3.076 | 3.076 | (1.000) | 9604 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.497 | 2.502 | (0.812) | 4499 | 0.15000 | 0.1560(AM) |
| * 86 Acenaphthene-d10 | 164 | 4.665 | 4.671 | (1.000) | 5448 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 4.064 | 4.067 | (0.871) | 13067 | 0.15000 | 0.1569(AM) |
| * 126 Phenanthrene-d10 | 188 | 6.066 | 6.065 | (1.000) | 10645 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 8.599 | 8.599 | (1.000) | 8954 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.630 | 7.630 | (0.887) | 27519 | 0.15000 | 0.1509(AM) |
| * 198 Perylene-d12 | 264 | 10.189 | 10.189 | (1.000) | 9228 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 0.842 | 0.820 | (0.402) | 984 | 0.15000 | 0.1490(QM) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D



Date : 18-APR-2024 14:00

Client ID:

Instrument: SV6.i

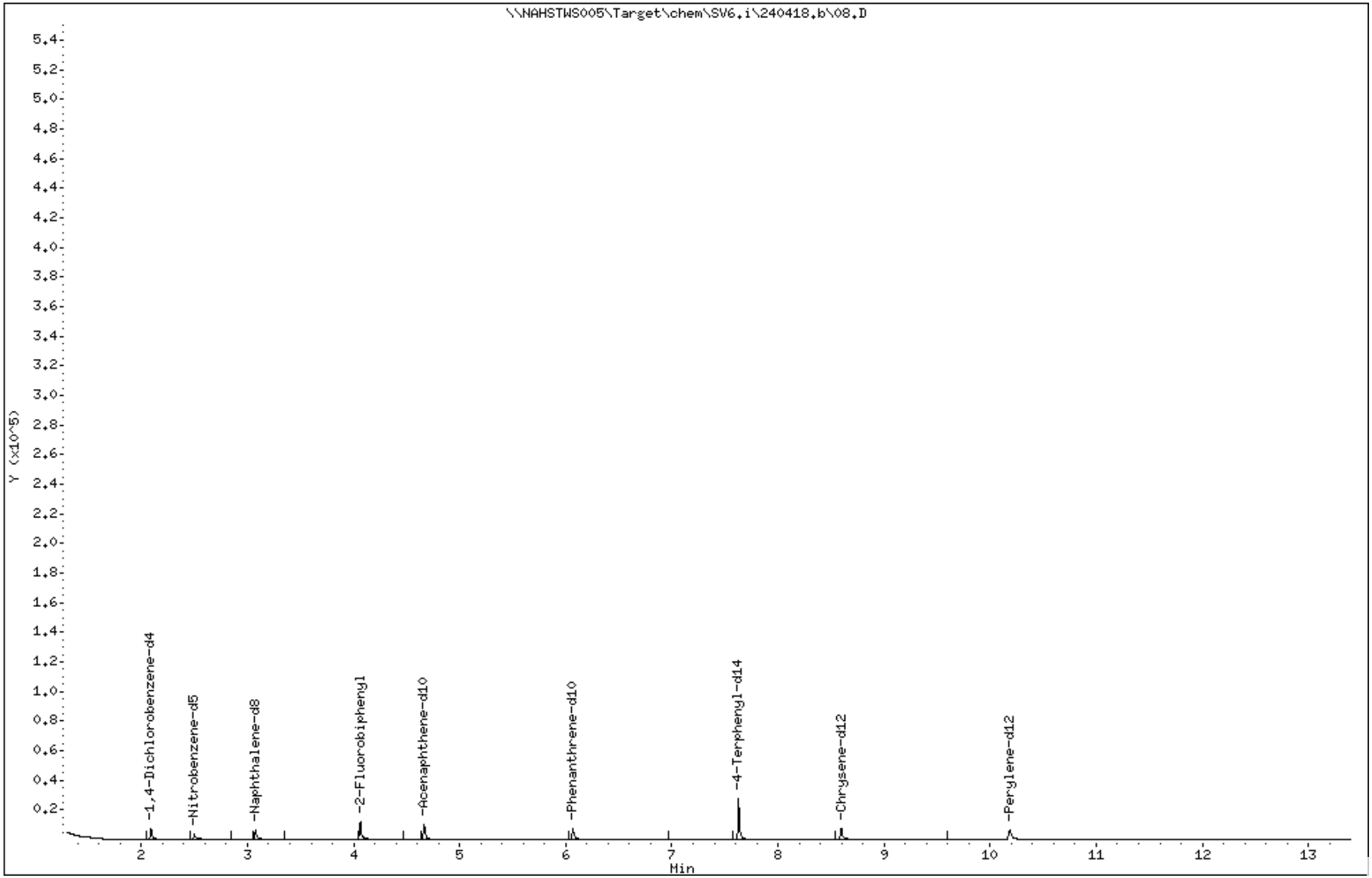
Sample Info: 14DX-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

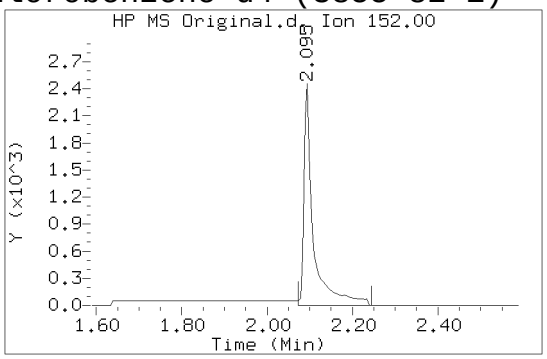


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

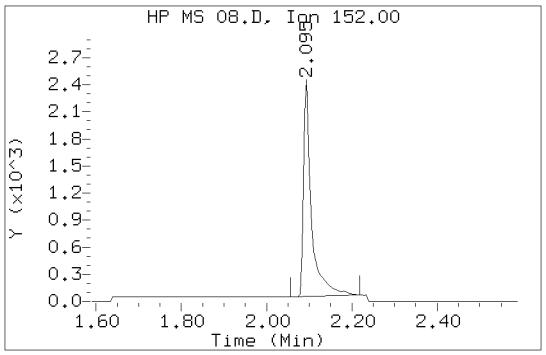
## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

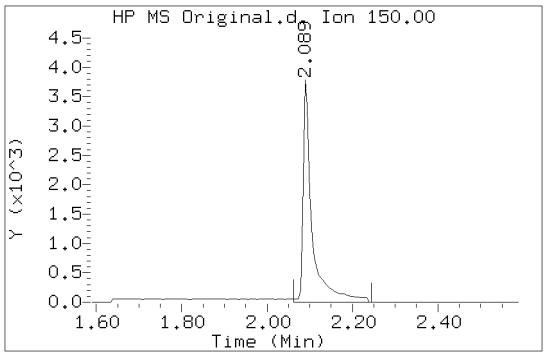
BEFORE
MASS
152
AREA
3705
HEIGHT
2456
18-Apr-2024
14:16
ALSHS
Server



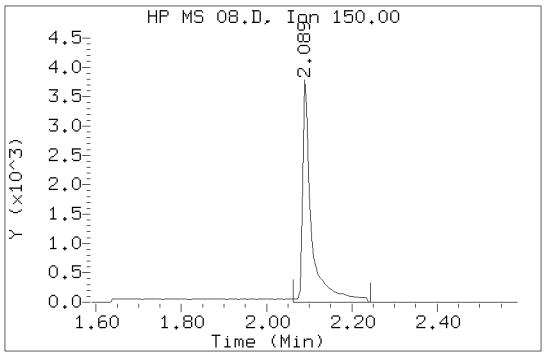

AFTER
MASS
152
AREA
3084
HEIGHT
2400
28-May-2024
13:05



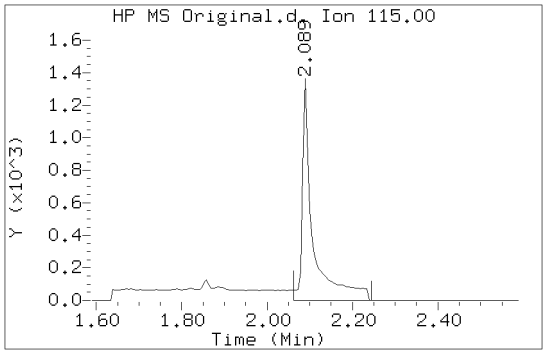

BEFORE
MASS
150
AREA
5535
HEIGHT
3786
18-Apr-2024
14:16
ALSHS
Server



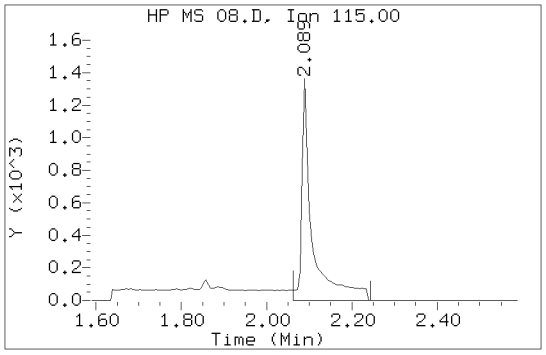

AFTER
MASS
150
AREA
5535
HEIGHT
3786
28-May-2024
13:05




BEFORE
MASS
115
AREA
2326
HEIGHT
1363
18-Apr-2024
14:16
ALSHS
Server



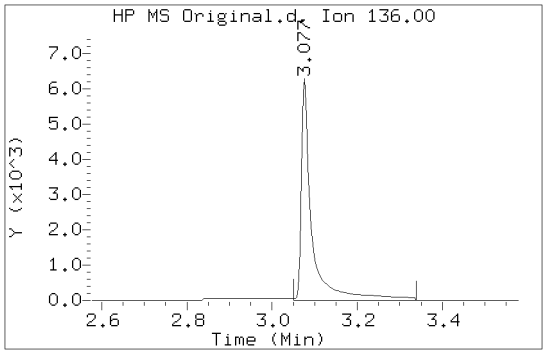

AFTER
MASS
115
AREA
2326
HEIGHT
1363
28-May-2024
13:05



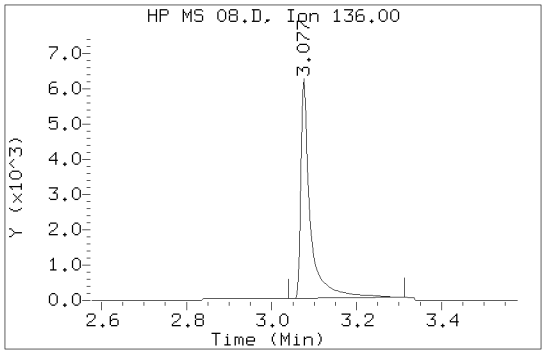

## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10787
HEIGHT
6291
18-Apr-2024
14:16
ALSHS
Server




AFTER
MASS
136
AREA
9604
HEIGHT
6235
28-May-2024
13:05

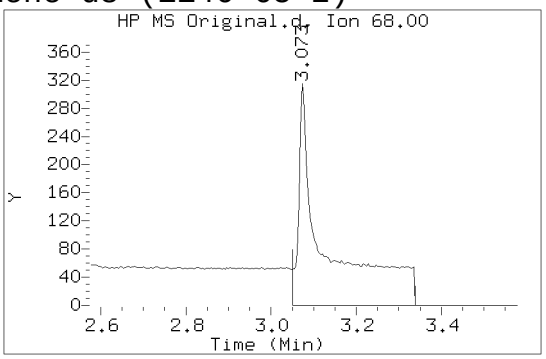


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

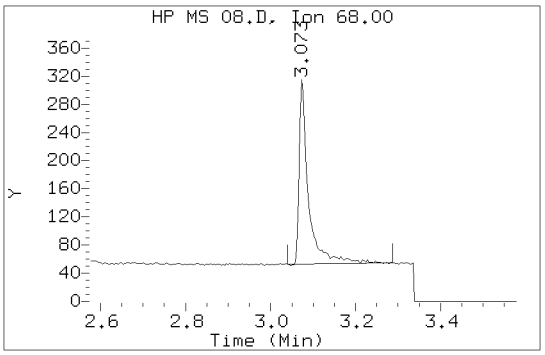
## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1324
HEIGHT
315
18-Apr-2024
14:16
ALSHS
Server



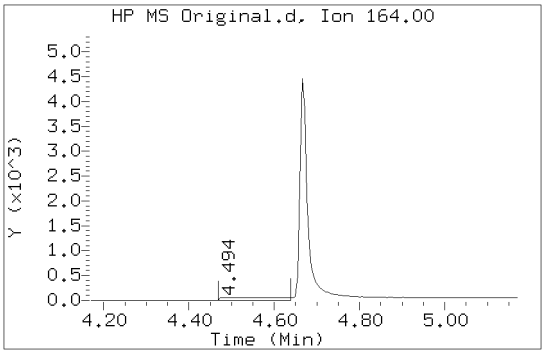

AFTER
MASS
68
AREA
389
HEIGHT
261
28-May-2024
13:05



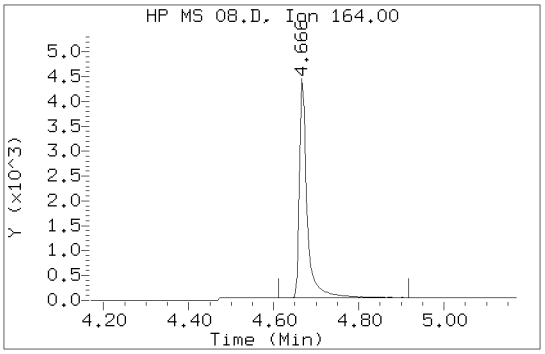

## Acenaphthene-d10 (15067-26-2)

Reason Code:

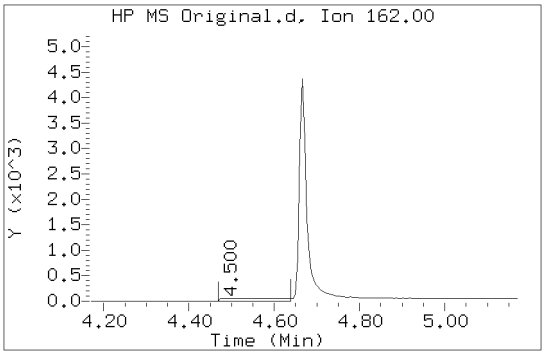
BEFORE
MASS
164
AREA
496
HEIGHT
50
18-Apr-2024
14:16
ALSHS
Server



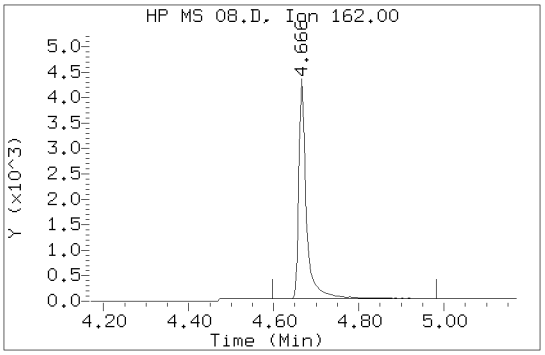

AFTER
MASS
164
AREA
5448
HEIGHT
4411
28-May-2024
13:05



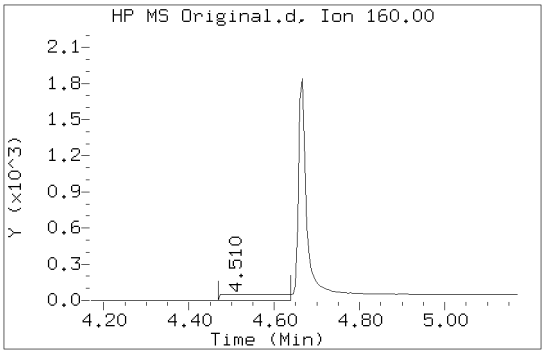

BEFORE
MASS
162
AREA
496
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server



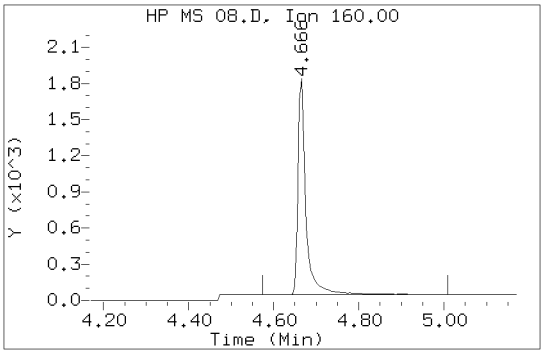

AFTER
MASS
162
AREA
5277
HEIGHT
4319
28-May-2024
13:05




BEFORE
MASS
160
AREA
482
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server




AFTER
MASS
160
AREA
2305
HEIGHT
1792
28-May-2024
13:05



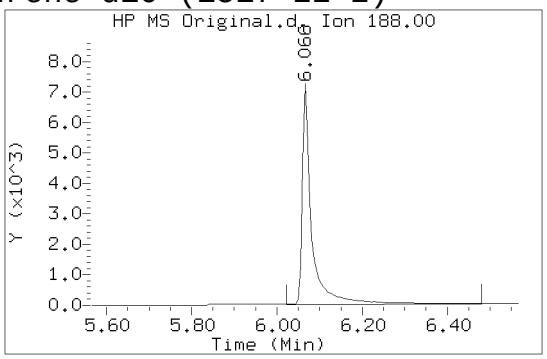
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

## Phenanthrene-d10 (1517-22-2)

Reason Code:

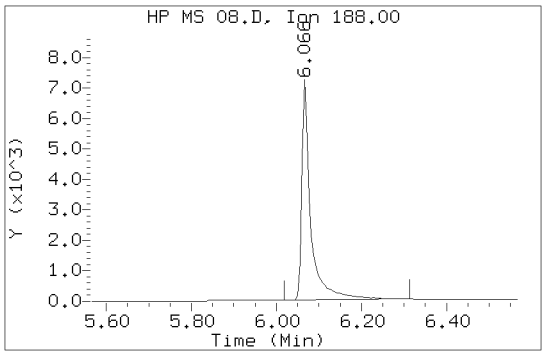
**BEFORE**

MASS
188
AREA
11494
HEIGHT
7257
18-Apr-2024
14:16
ALSHS
Server



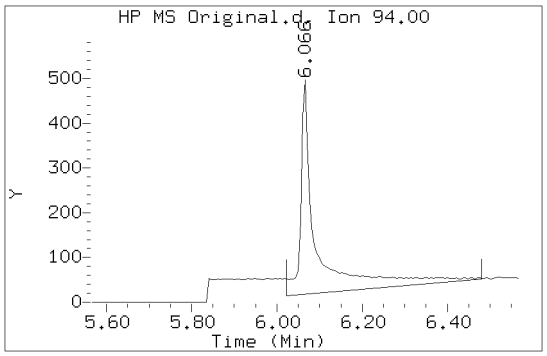

**AFTER**

MASS
188
AREA
10645
HEIGHT
7224
28-May-2024
13:05



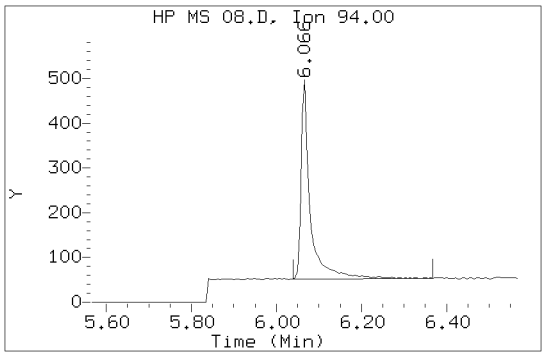

**BEFORE**

MASS
94
AREA
1207
HEIGHT
478
18-Apr-2024
14:16
ALSHS
Server



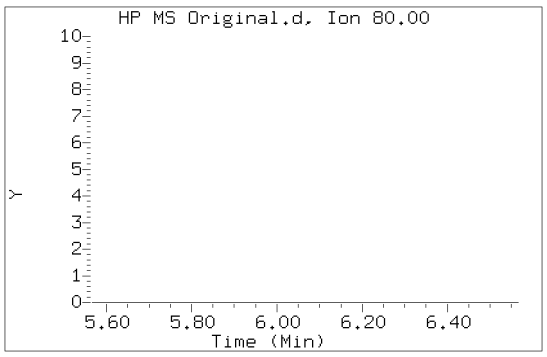

**AFTER**

MASS
94
AREA
674
HEIGHT
444
28-May-2024
13:05



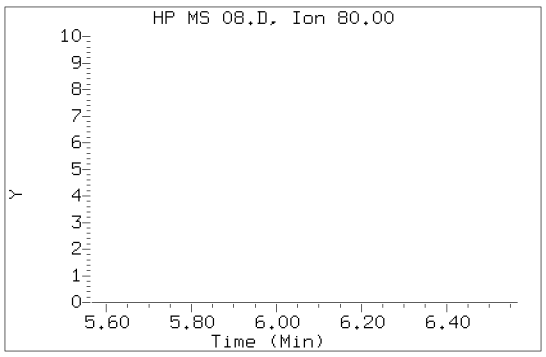

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

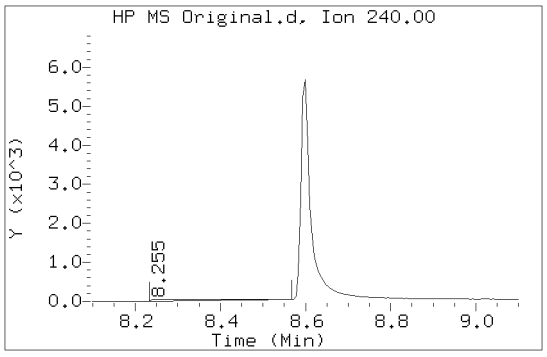



## Chrysene-d12 (1719-03-5)

Reason Code:

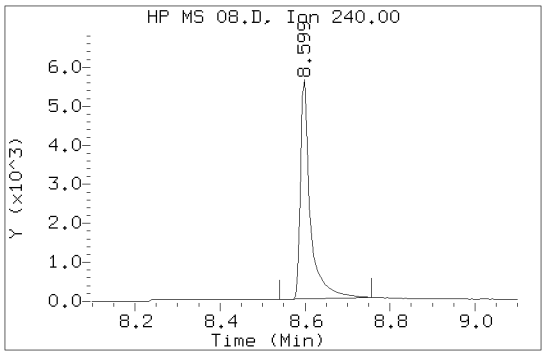
**BEFORE**

MASS
240
AREA
453
HEIGHT
46
18-Apr-2024
14:16
ALSHS
Server




**AFTER**

MASS
240
AREA
8954
HEIGHT
5618
28-May-2024
13:05



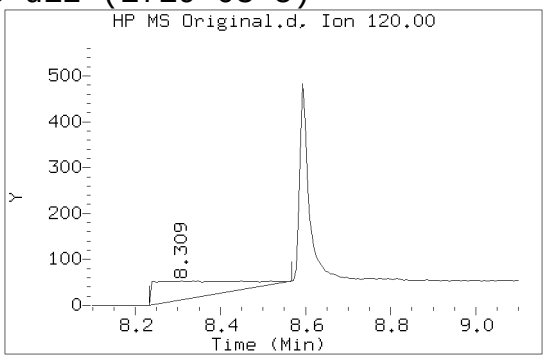
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

## Chrysene-d12 (1719-03-5)

Reason Code:

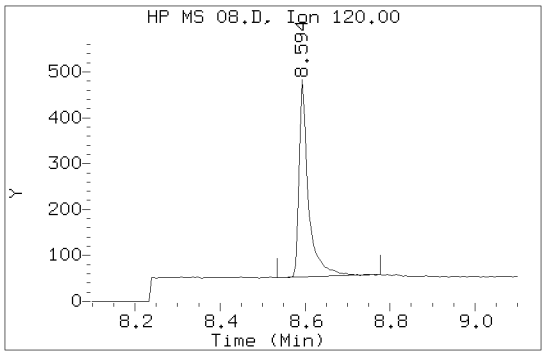
**BEFORE**

MASS
120
AREA
491
HEIGHT
41
18-Apr-2024
14:16
ALSHS
Server



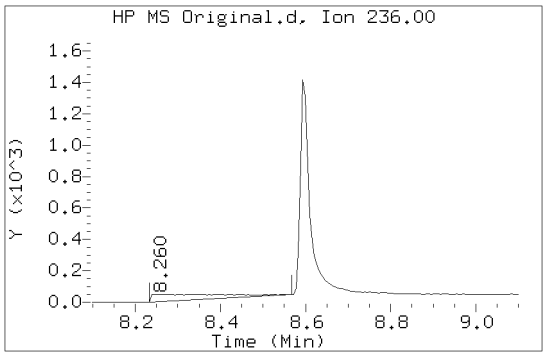

**AFTER**

MASS
120
AREA
640
HEIGHT
429
28-May-2024
13:05



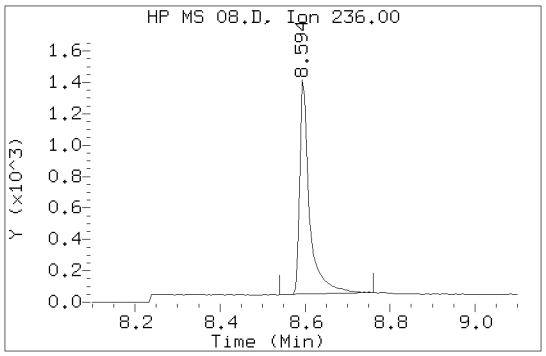

**BEFORE**

MASS
236
AREA
459
HEIGHT
45
18-Apr-2024
14:16
ALSHS
Server




**AFTER**

MASS
236
AREA
2175
HEIGHT
1364
28-May-2024
13:05

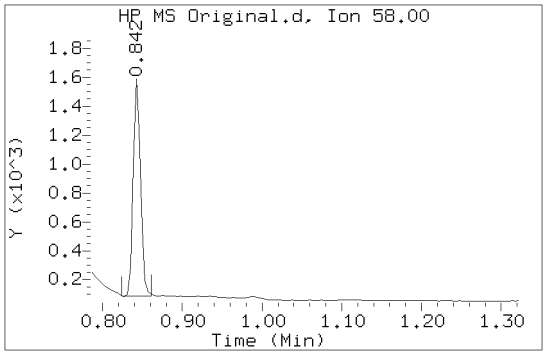



## 1,4-Dioxane ()

Reason Code:

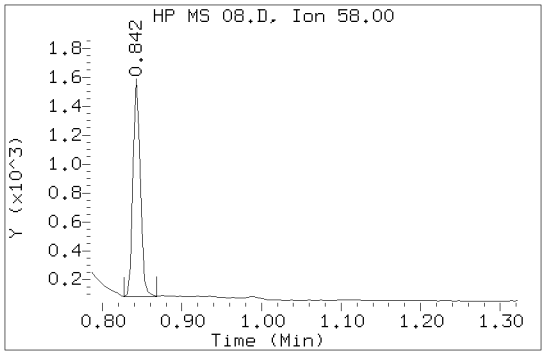
**BEFORE**

MASS
58
AREA
972
HEIGHT
1502
18-Apr-2024
14:16
ALSHS
Server



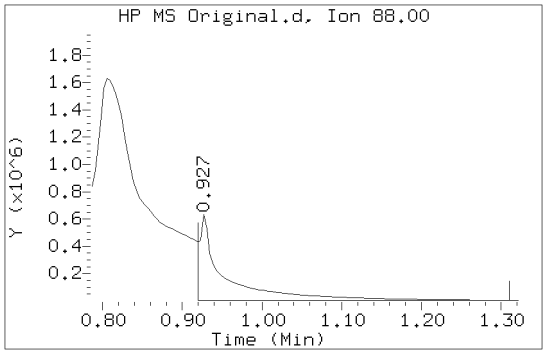

**AFTER**

MASS
58
AREA
984
HEIGHT
1506
28-May-2024
13:05



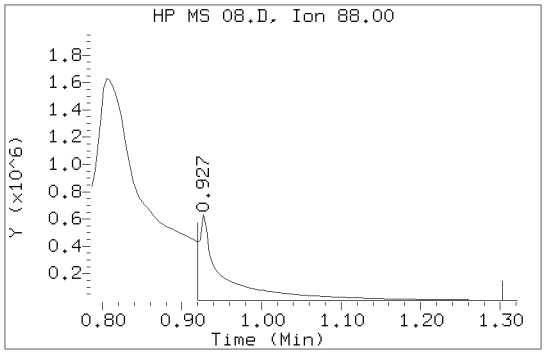

**BEFORE**

MASS
88
AREA
1391687
HEIGHT
630804
18-Apr-2024
14:16
ALSHS
Server




**AFTER**

MASS
88
AREA
1385982
HEIGHT
630559
28-May-2024
13:05



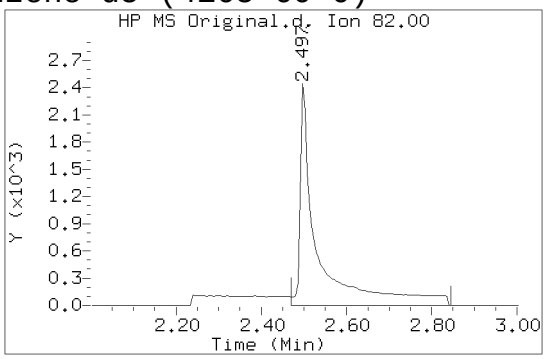
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

## Nitrobenzene-d5 (4165-60-0)

Reason Code:

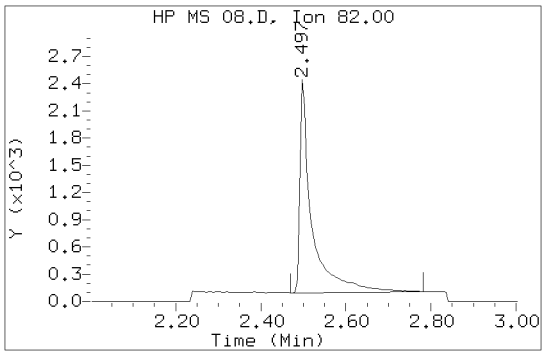
**BEFORE**

MASS
82
AREA
6726
HEIGHT
2444
18-Apr-2024
14:16
ALSHS
Server



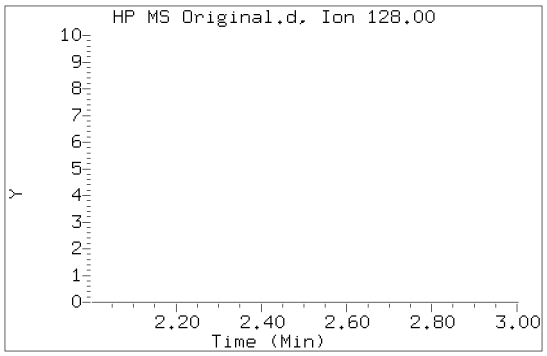

**AFTER**

MASS
82
AREA
4499
HEIGHT
2348
28-May-2024
13:05



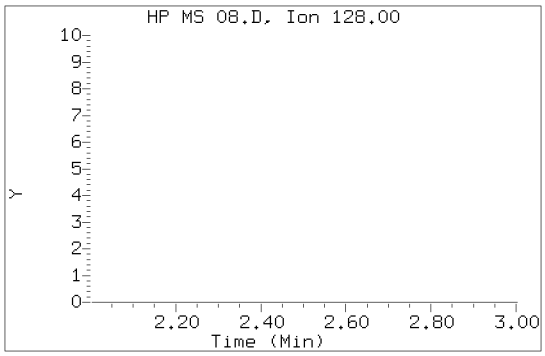

**BEFORE**

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server



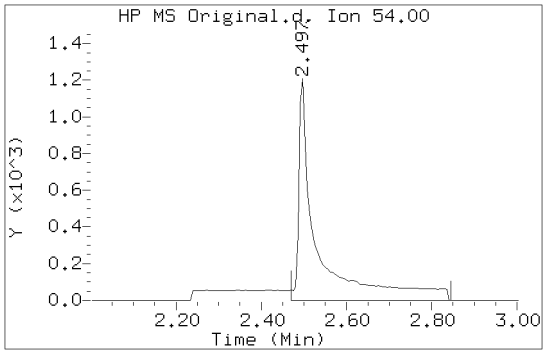

**AFTER**

MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



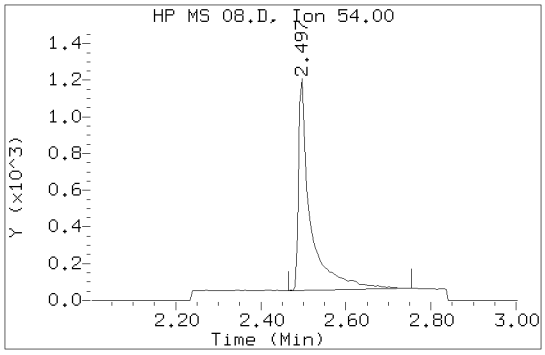

**BEFORE**

MASS
54
AREA
3552
HEIGHT
1208
18-Apr-2024
14:16
ALSHS
Server




**AFTER**

MASS
54
AREA
2217
HEIGHT
1153
28-May-2024
13:05

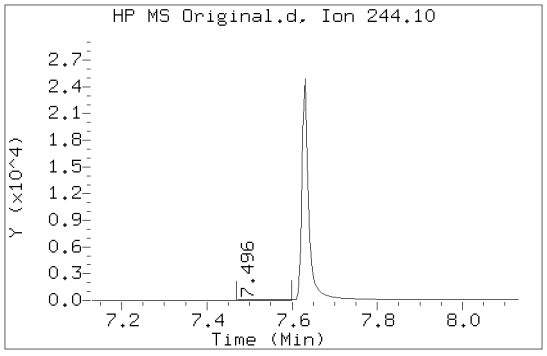



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

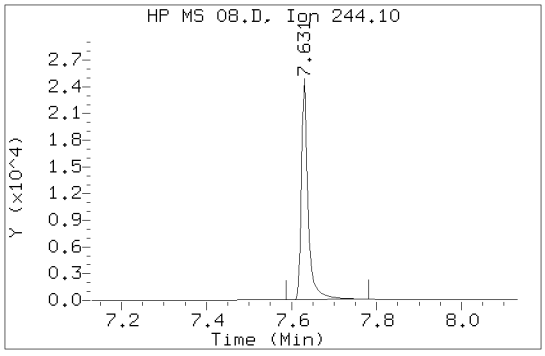
**BEFORE**

MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server




**AFTER**

MASS
244.1
AREA
27519
HEIGHT
24848
28-May-2024
13:05

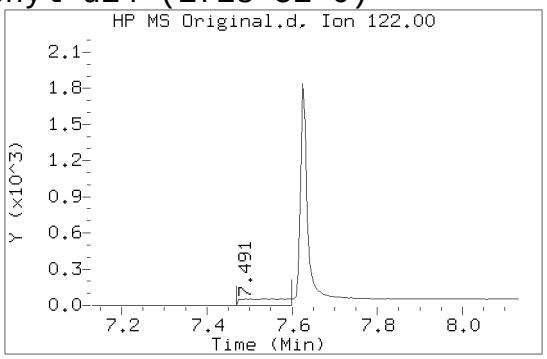


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

## 4-Terphenyl-d14 (1718-51-0)

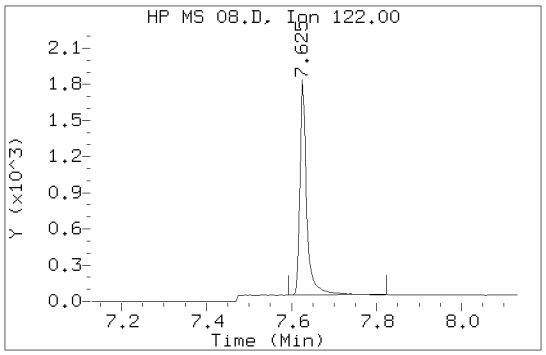
### BEFORE

MASS
122
AREA
391
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server




### AFTER

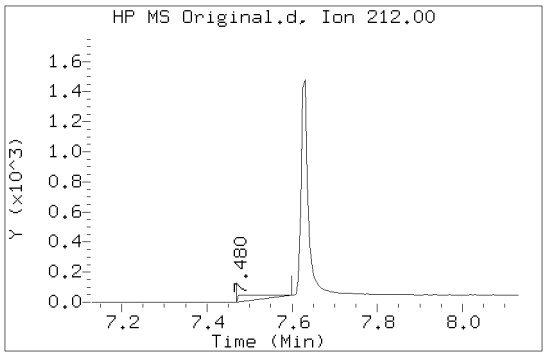
MASS
122
AREA
2002
HEIGHT
1786
28-May-2024
13:05




Reason Code:

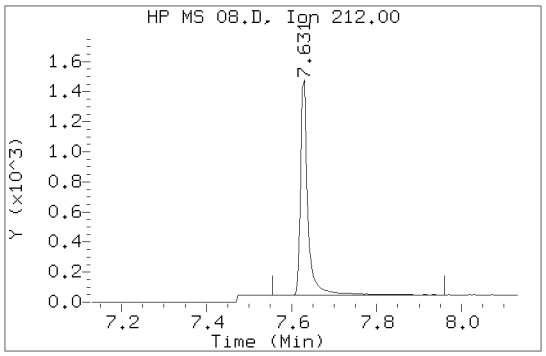
### BEFORE

MASS
212
AREA
175
HEIGHT
44
18-Apr-2024
14:16
ALSHS
Server




### AFTER

MASS
212
AREA
1733
HEIGHT
1429
28-May-2024
13:05

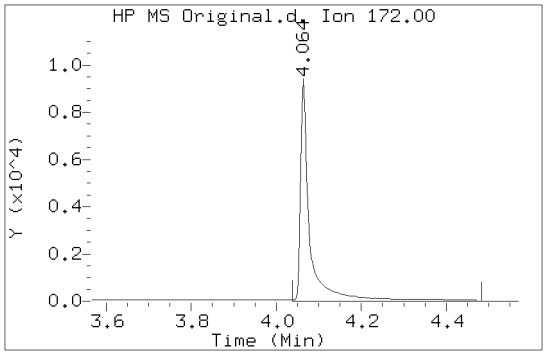



Reason Code:

## 2-Fluorobiphenyl (321-60-8)

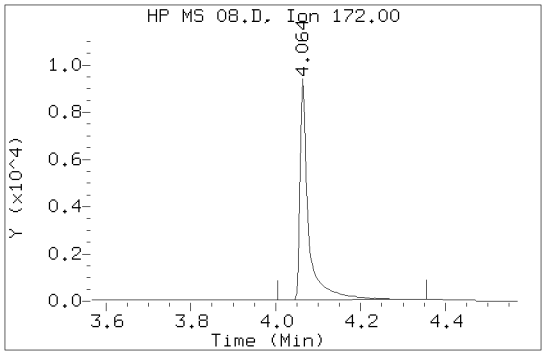
### BEFORE

MASS
172
AREA
14843
HEIGHT
9413
18-Apr-2024
14:16
ALSHS
Server




### AFTER

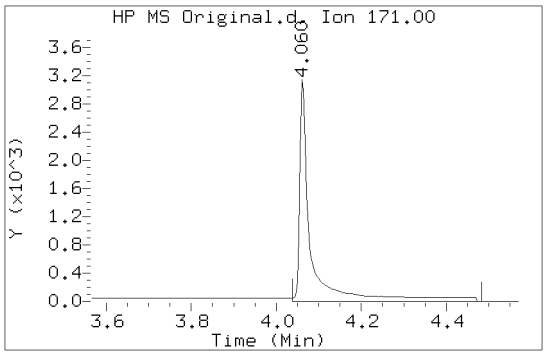
MASS
172
AREA
13067
HEIGHT
9360
28-May-2024
13:05




Reason Code:

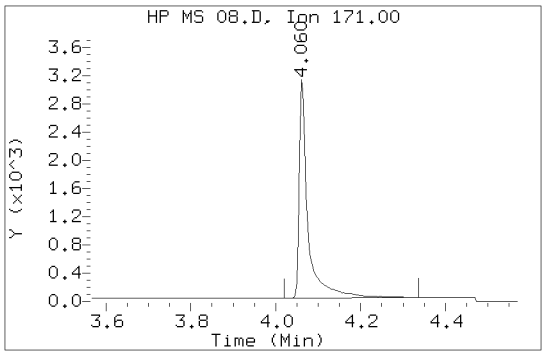
### BEFORE

MASS
171
AREA
5828
HEIGHT
3145
18-Apr-2024
14:16
ALSHS
Server




### AFTER

MASS
171
AREA
4411
HEIGHT
3096
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Lab Smp Id: 14DX-0.20
Inj Date : 18-APR-2024 14:18
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.20
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:18 Cal File: 09.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

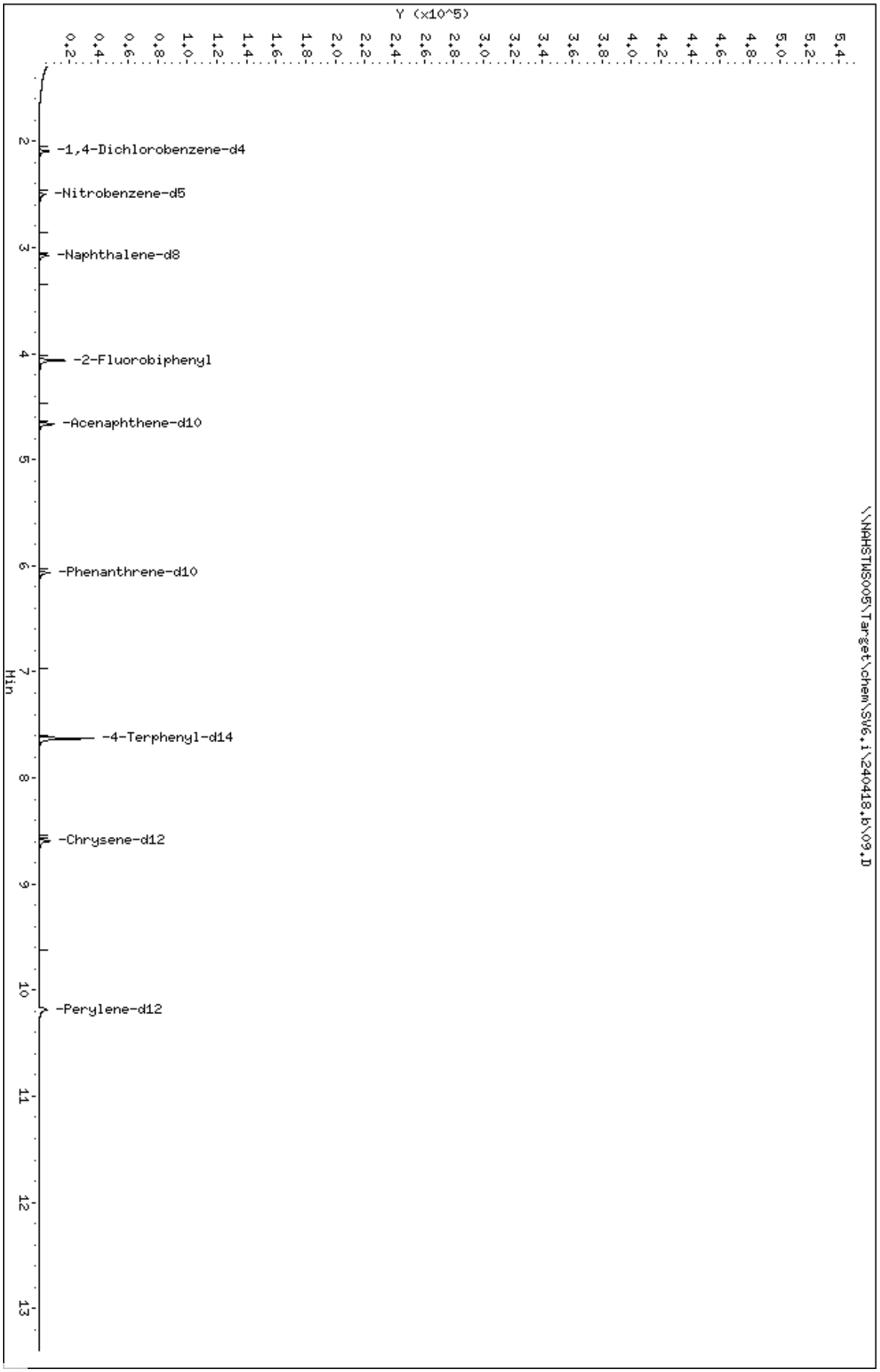
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | ON-COL ( NG) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 2.094 | 2.089 | (1.000) | 2896 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 3.076 | 3.076 | (1.000) | 9147 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.496 | 2.502 | (0.812) | 5927 | 0.20000 | 0.2158(AM) |
| * 86 Acenaphthene-d10 | 164 | 4.665 | 4.671 | (1.000) | 5593 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 4.064 | 4.067 | (0.871) | 17331 | 0.20000 | 0.2027(AM) |
| * 126 Phenanthrene-d10 | 188 | 6.065 | 6.065 | (1.000) | 10775 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 8.593 | 8.599 | (1.000) | 9063 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.630 | 7.630 | (0.888) | 39718 | 0.20000 | 0.2151(AM) |
| * 198 Perylene-d12 | 264 | 10.184 | 10.189 | (1.000) | 8962 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 0.845 | 0.820 | (0.404) | 1268 | 0.20000 | 0.2044(QM) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.




Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Date : 18-APR-2024 14:18
Client ID:
Sample Info: 14DX-0.20
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

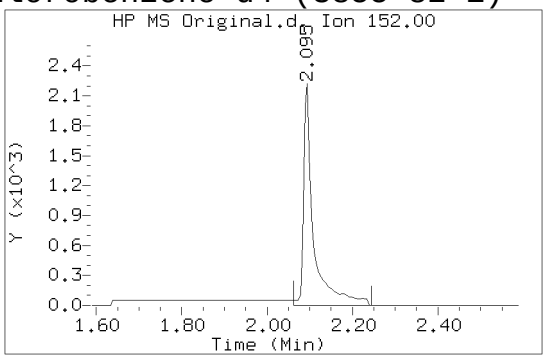
Instrument: SV6.i
Operator: LG
Column diameter: 0.28

Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

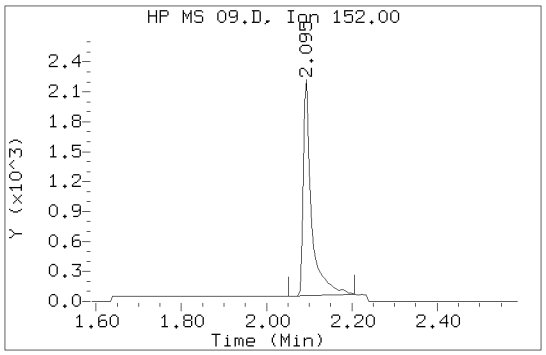
## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

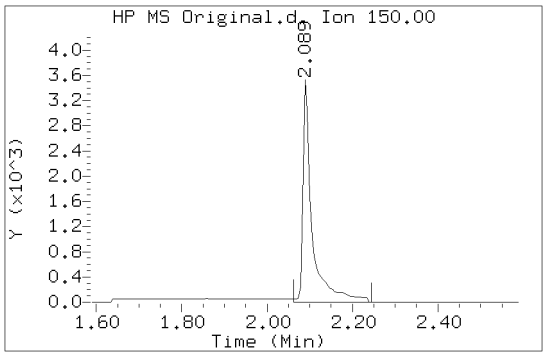
BEFORE
MASS
152
AREA
3565
HEIGHT
2222
18-Apr-2024
14:31
ALSHS
Server



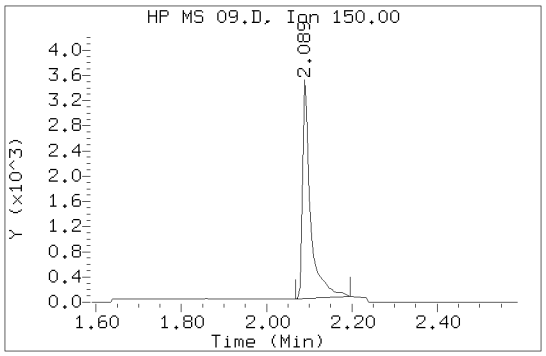

AFTER
MASS
152
AREA
2896
HEIGHT
2165
23-May-2024
08:54



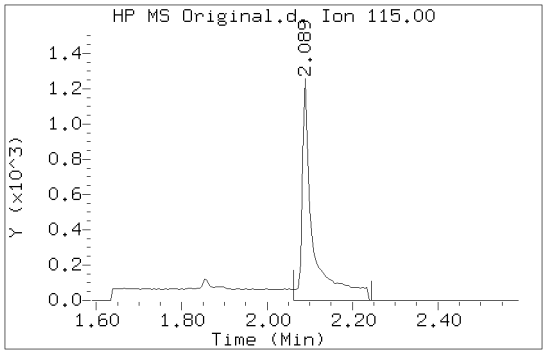

BEFORE
MASS
150
AREA
5268
HEIGHT
3527
18-Apr-2024
14:31
ALSHS
Server



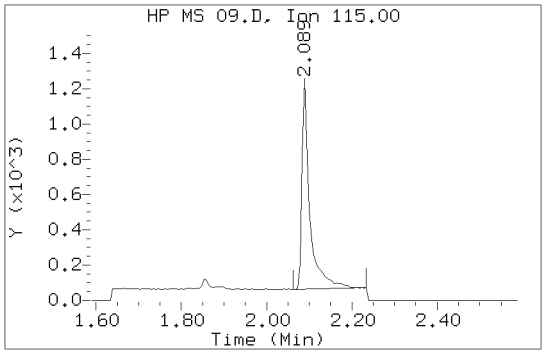

AFTER
MASS
150
AREA
4498
HEIGHT
3469
23-May-2024
08:54




BEFORE
MASS
115
AREA
2227
HEIGHT
1257
18-Apr-2024
14:31
ALSHS
Server



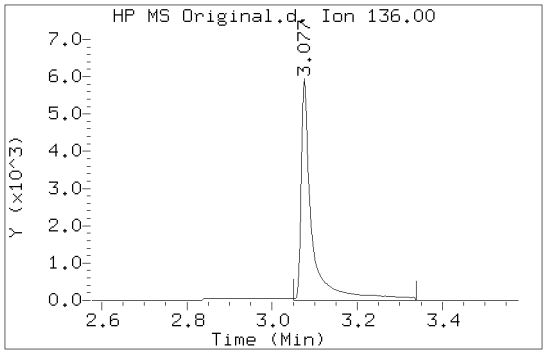

AFTER
MASS
115
AREA
1525
HEIGHT
1194
23-May-2024
08:54



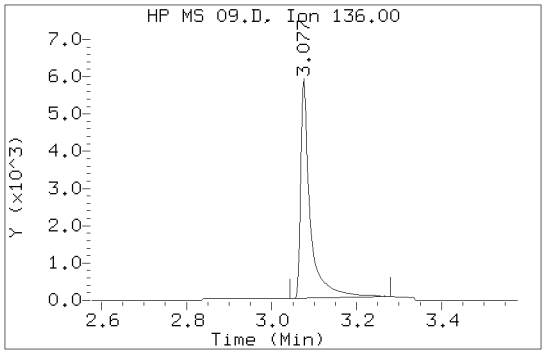

## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10466
HEIGHT
5947
18-Apr-2024
14:31
ALSHS
Server




AFTER
MASS
136
AREA
9147
HEIGHT
5889
23-May-2024
08:54



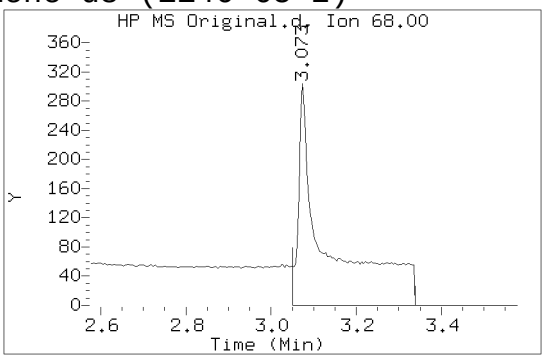
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

## Naphthalene-d8 (1146-65-2)

Reason Code:

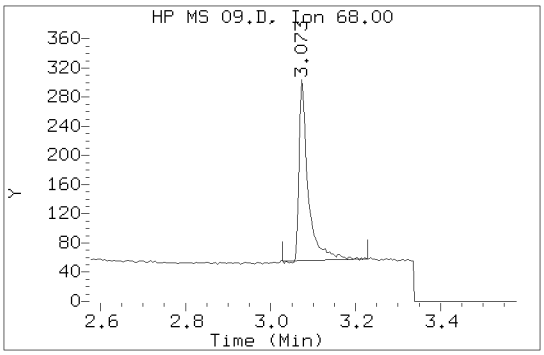
**BEFORE**

MASS
68
AREA
1344
HEIGHT
304
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
68
AREA
362
HEIGHT
248
23-May-2024
08:54

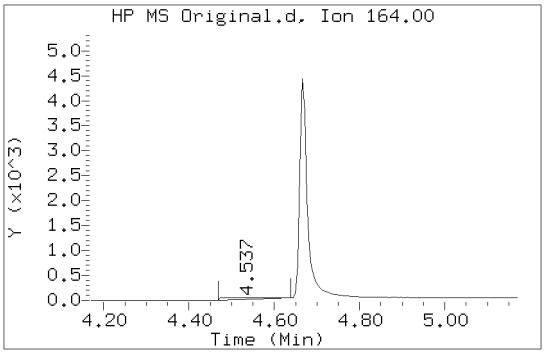



## Acenaphthene-d10 (15067-26-2)

Reason Code:

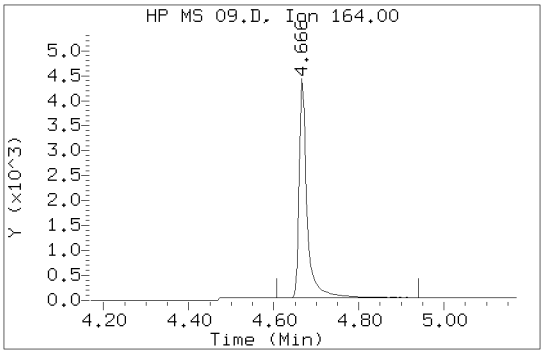
**BEFORE**

MASS
164
AREA
238
HEIGHT
29
18-Apr-2024
14:31
ALSHS
Server



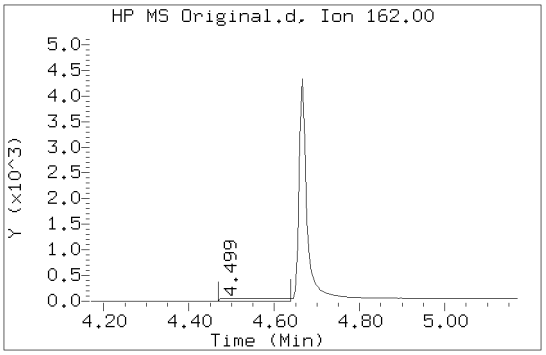

**AFTER**

MASS
164
AREA
5593
HEIGHT
4390
23-May-2024
08:54



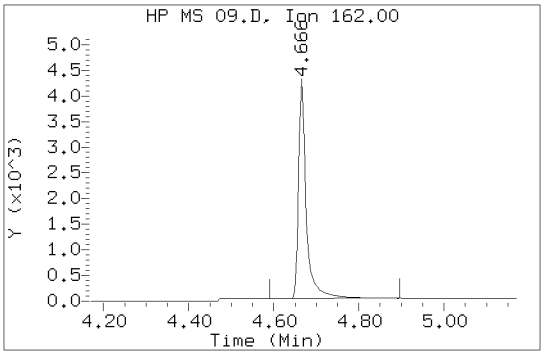

**BEFORE**

MASS
162
AREA
503
HEIGHT
51
18-Apr-2024
14:31
ALSHS
Server



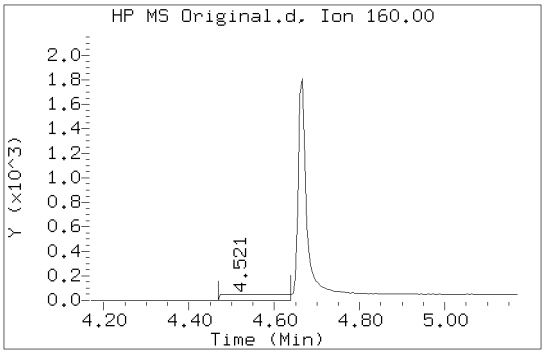

**AFTER**

MASS
162
AREA
5314
HEIGHT
4281
23-May-2024
08:54



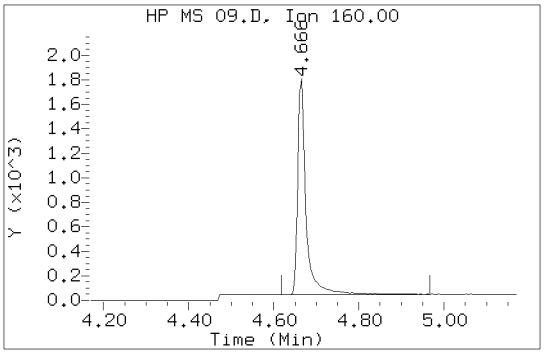

**BEFORE**

MASS
160
AREA
485
HEIGHT
49
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
160
AREA
2365
HEIGHT
1761
23-May-2024
08:54



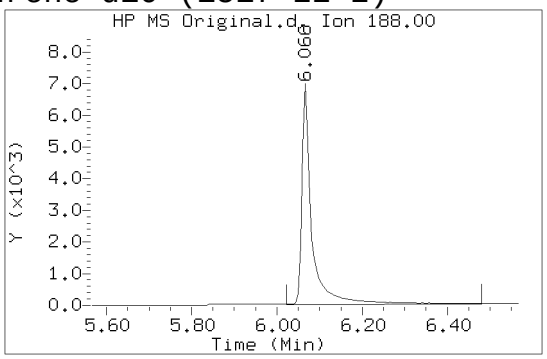
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

## Phenanthrene-d10 (1517-22-2)

Reason Code:

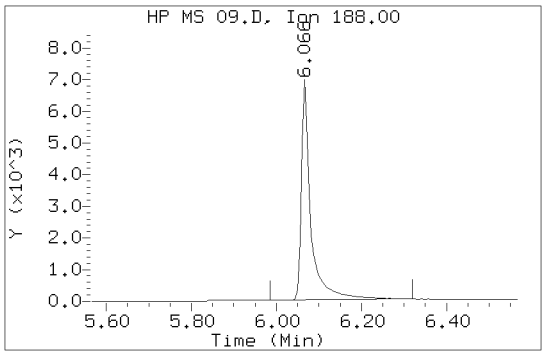
**BEFORE**

MASS
188
AREA
11617
HEIGHT
6980
18-Apr-2024
14:31
ALSHS
Server



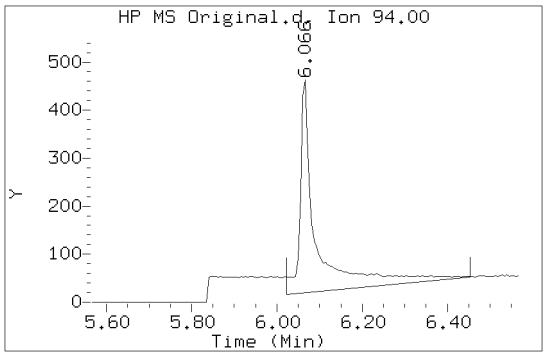

**AFTER**

MASS
188
AREA
10775
HEIGHT
6945
23-May-2024
08:54



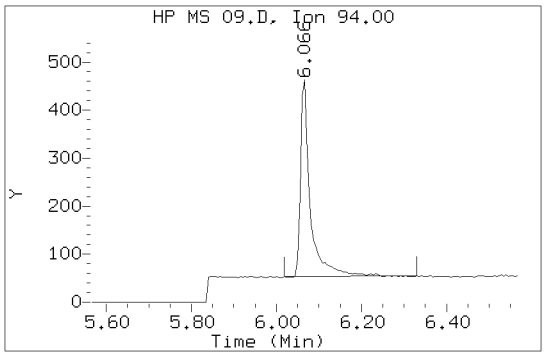

**BEFORE**

MASS
94
AREA
1175
HEIGHT
443
18-Apr-2024
14:31
ALSHS
Server



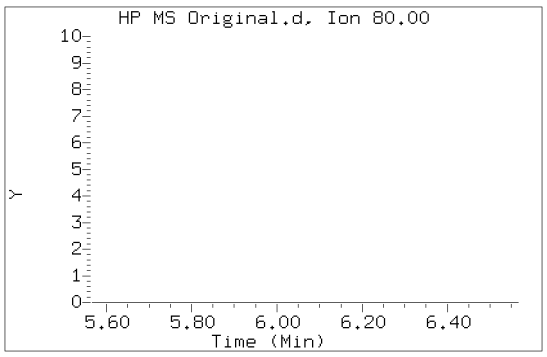

**AFTER**

MASS
94
AREA
655
HEIGHT
409
23-May-2024
08:54



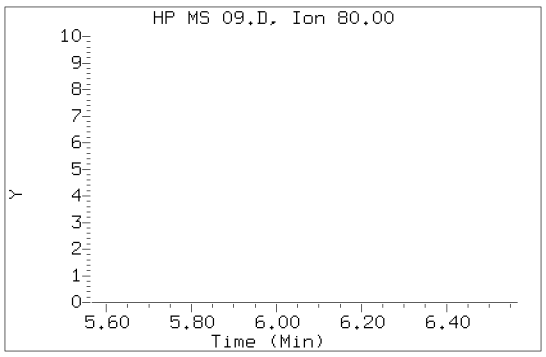

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
23-May-2024
08:54

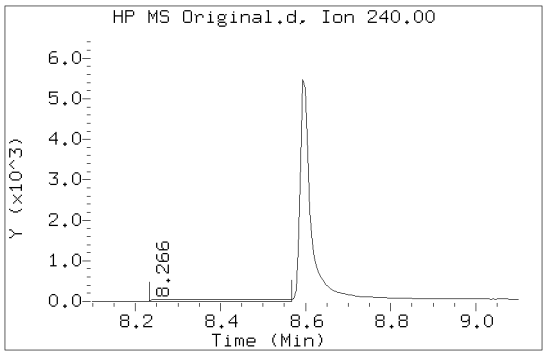



## Chrysene-d12 (1719-03-5)

Reason Code:

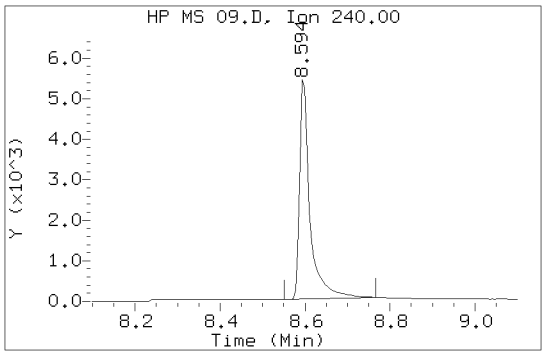
**BEFORE**

MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
240
AREA
9063
HEIGHT
5411
23-May-2024
08:54



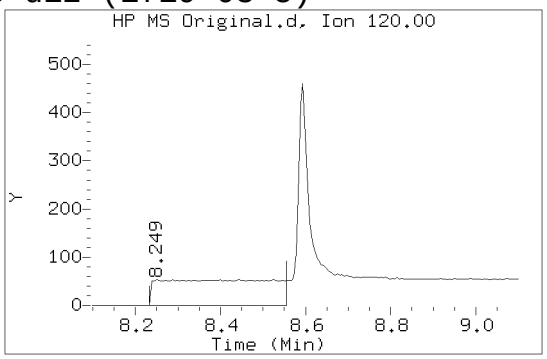
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

## Chrysene-d12 (1719-03-5)

Reason Code:

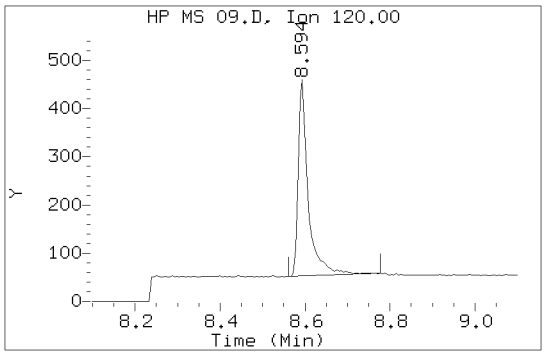
**BEFORE**

MASS
120
AREA
1000
HEIGHT
53
18-Apr-2024
14:31
ALSHS
Server



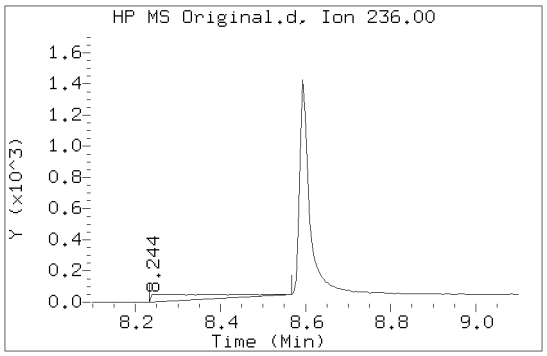

**AFTER**

MASS
120
AREA
651
HEIGHT
406
23-May-2024
08:54



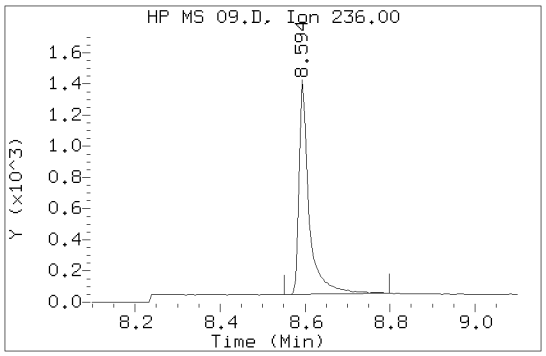

**BEFORE**

MASS
236
AREA
466
HEIGHT
47
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
236
AREA
2242
HEIGHT
1376
23-May-2024
08:54

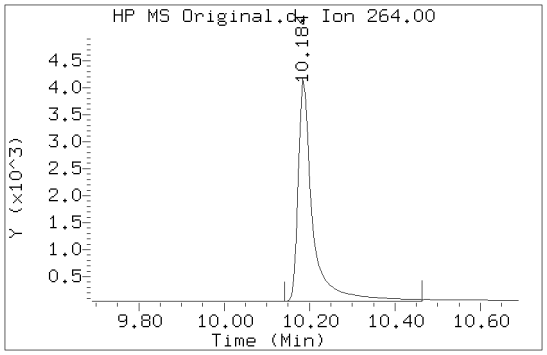



## Perylene-d12 (1520-96-3)

Reason Code:

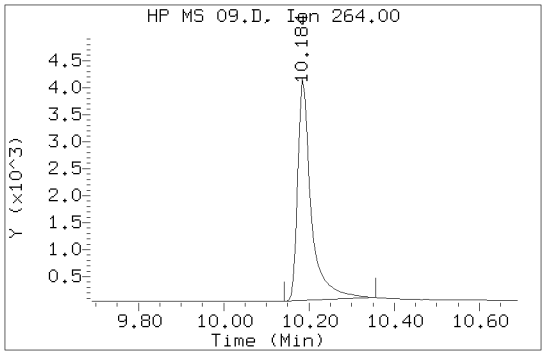
**BEFORE**

MASS
264
AREA
9658
HEIGHT
4112
18-Apr-2024
14:31
ALSHS
Server



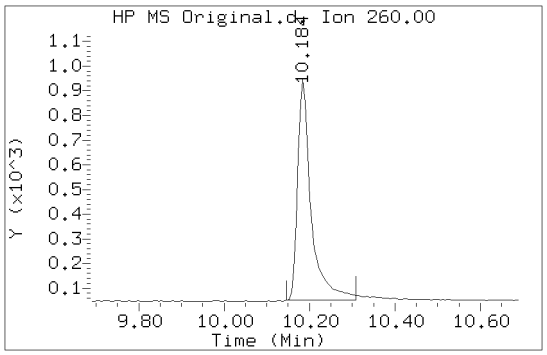

**AFTER**

MASS
264
AREA
8962
HEIGHT
4099
23-May-2024
08:54



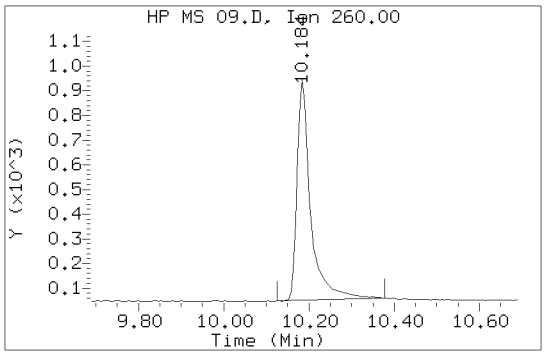

**BEFORE**

MASS
260
AREA
1972
HEIGHT
894
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
260
AREA
1963
HEIGHT
893
23-May-2024
08:54



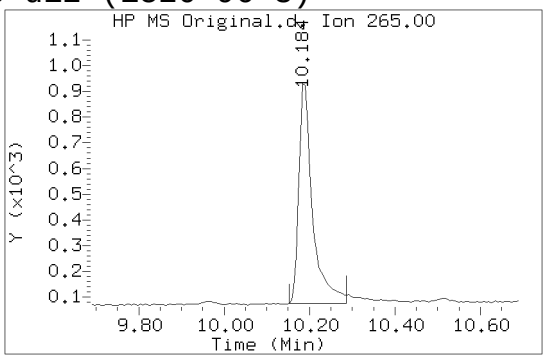
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

## Perylene-d12 (1520-96-3)

Reason Code:

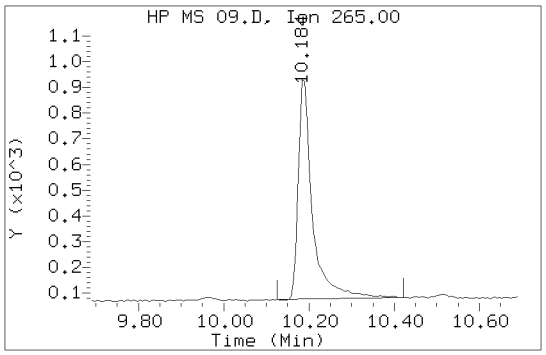
**BEFORE**

MASS
265
AREA
1909
HEIGHT
854
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
265
AREA
1984
HEIGHT
853
23-May-2024
08:54

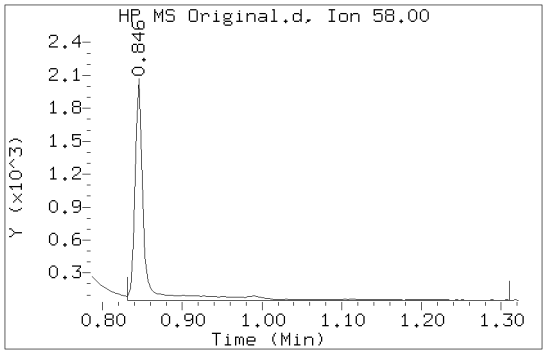



## 1,4-Dioxane ()

Reason Code:

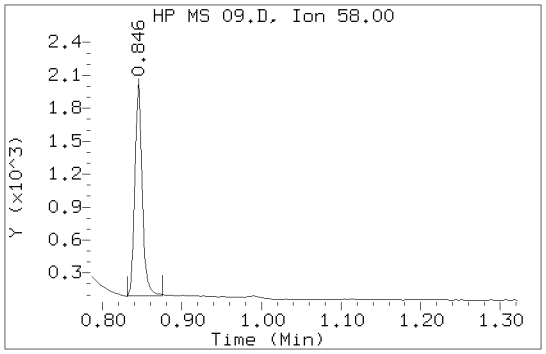
**BEFORE**

MASS
58
AREA
1746
HEIGHT
2018
18-Apr-2024
14:31
ALSHS
Server



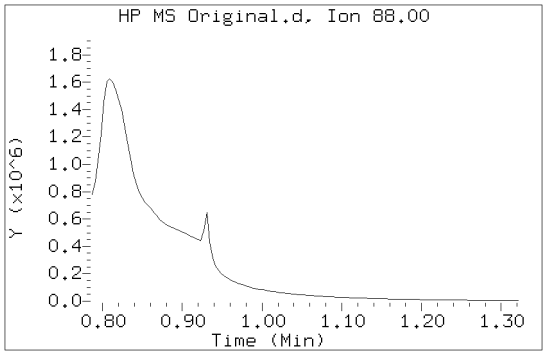

**AFTER**

MASS
58
AREA
1268
HEIGHT
1979
23-May-2024
08:54



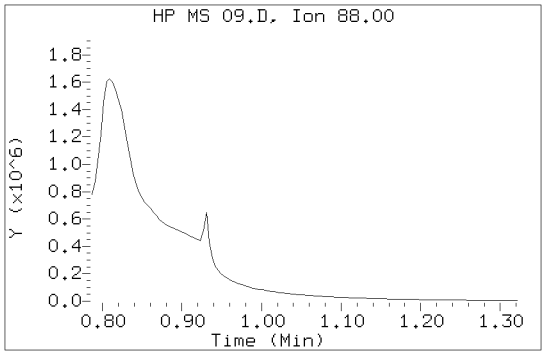

**BEFORE**

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
88
AREA
0
HEIGHT
0
23-May-2024
08:54

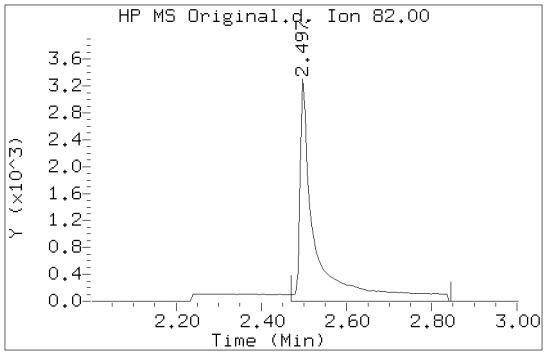



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

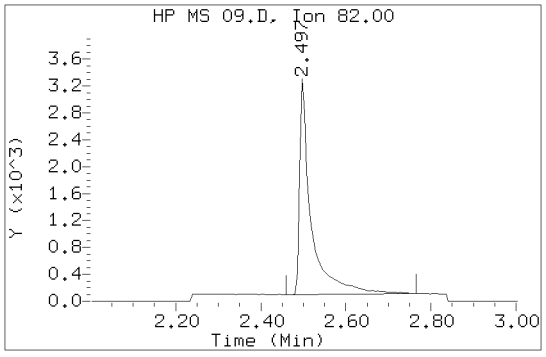
**BEFORE**

MASS
82
AREA
8325
HEIGHT
3305
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
82
AREA
5927
HEIGHT
3202
23-May-2024
08:54



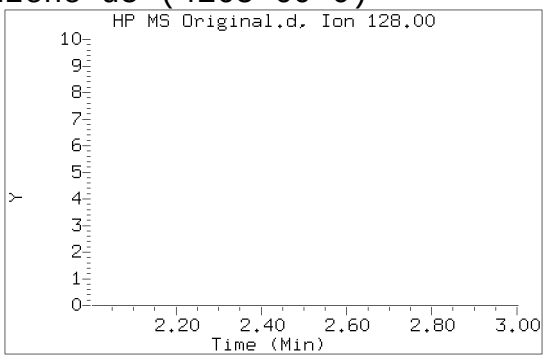
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

## Nitrobenzene-d5 (4165-60-0)

Reason Code:

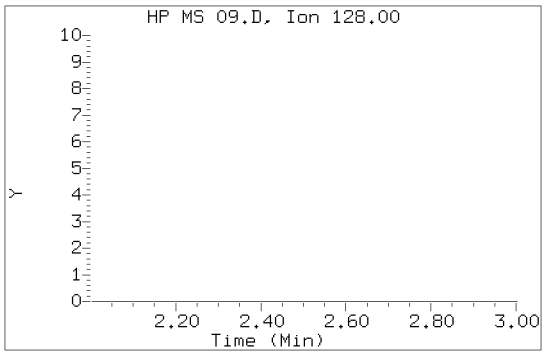
**BEFORE**

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



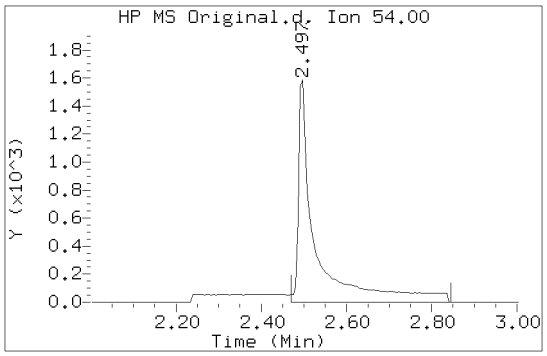

**AFTER**

MASS
128
AREA
0
HEIGHT
0
23-May-2024
08:54



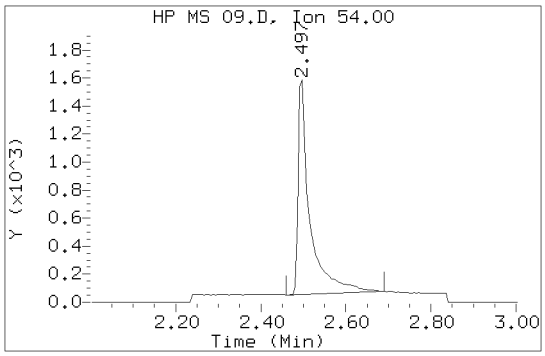

**BEFORE**

MASS
54
AREA
4354
HEIGHT
1586
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
54
AREA
2914
HEIGHT
1530
23-May-2024
08:54

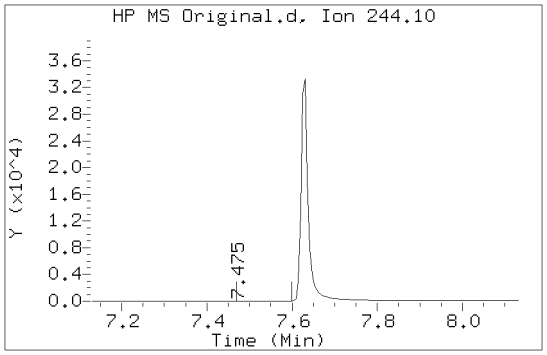



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

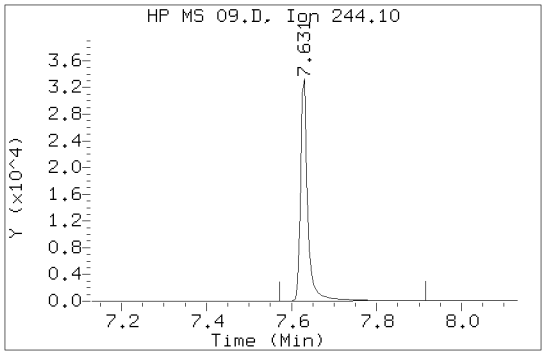
**BEFORE**

MASS
244.1
AREA
171
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server



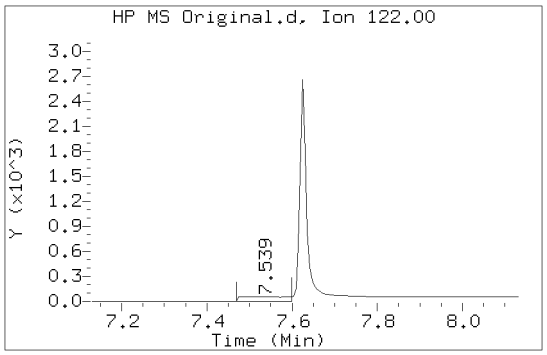

**AFTER**

MASS
244.1
AREA
39718
HEIGHT
33227
23-May-2024
08:54



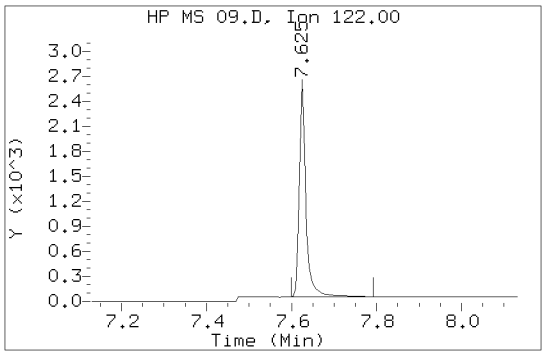

**BEFORE**

MASS
122
AREA
392
HEIGHT
52
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
122
AREA
2843
HEIGHT
2606
23-May-2024
08:54



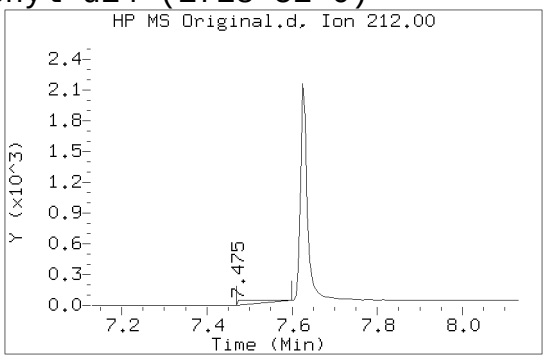
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

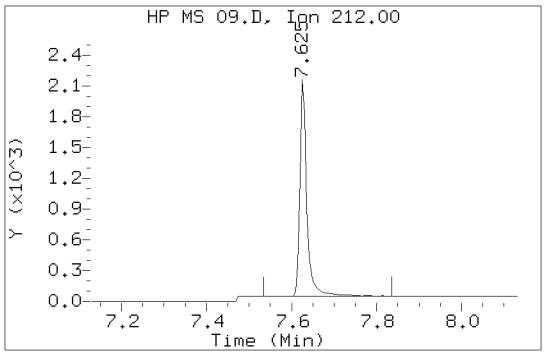
**BEFORE**

MASS
212
AREA
176
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
212
AREA
2426
HEIGHT
2111
23-May-2024
08:54

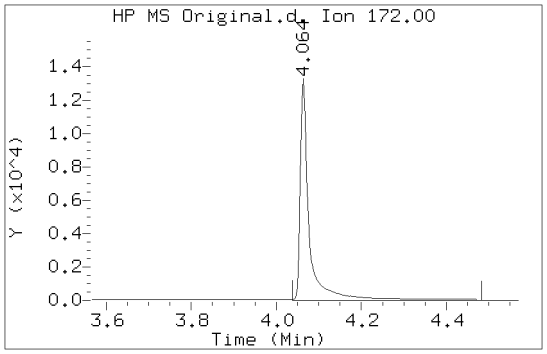



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

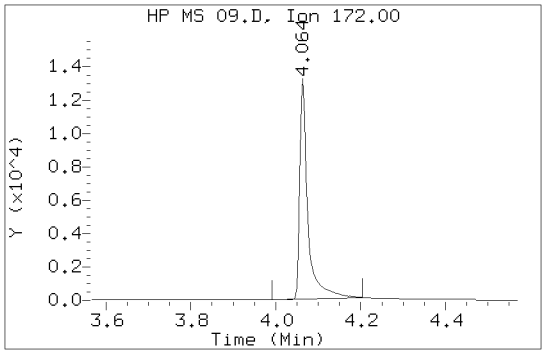
**BEFORE**

MASS
172
AREA
20172
HEIGHT
13283
18-Apr-2024
14:31
ALSHS
Server



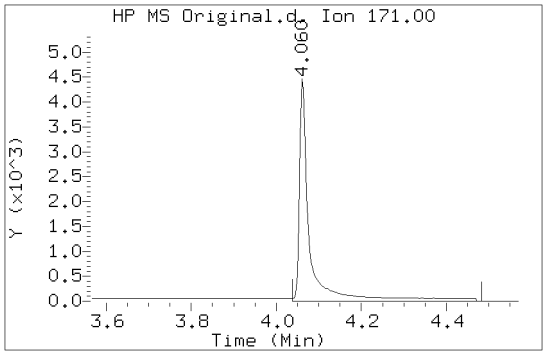

**AFTER**

MASS
172
AREA
17331
HEIGHT
13194
23-May-2024
08:54



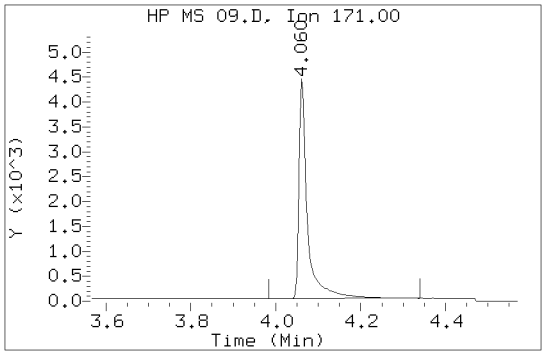

**BEFORE**

MASS
171
AREA
7647
HEIGHT
4464
18-Apr-2024
14:31
ALSHS
Server




**AFTER**

MASS
171
AREA
6174
HEIGHT
4414
23-May-2024
08:54



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Lab Smp Id: 14DX-0.50
Inj Date : 18-APR-2024 14:35
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.50
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( NG) | ON-COL ( NG) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 2.089 | 2.089 | (1.000) | 2819 | 0.10000 | (aQM) |
| * 45 Naphthalene-d8 | 136 | 3.076 | 3.076 | (1.000) | 9772 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.497 | 2.502 | (0.812) | 15956 | 0.50000 | 0.5439(AM) |
| * 86 Acenaphthene-d10 | 164 | 4.665 | 4.671 | (1.000) | 5911 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 4.064 | 4.067 | (0.871) | 47534 | 0.50000 | 0.5260(AM) |
| * 126 Phenanthrene-d10 | 188 | 6.066 | 6.065 | (1.000) | 11325 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 8.593 | 8.599 | (1.000) | 9856 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.630 | 7.630 | (0.888) | 111493 | 0.50000 | 0.5553(AM) |
| * 198 Perylene-d12 | 264 | 10.184 | 10.189 | (1.000) | 10138 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 0.831 | 0.820 | (0.398) | 2813 | 0.50000 | 0.4659(M) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D



Date : 18-APR-2024 14:35

Client ID:

Instrument: SV6.i

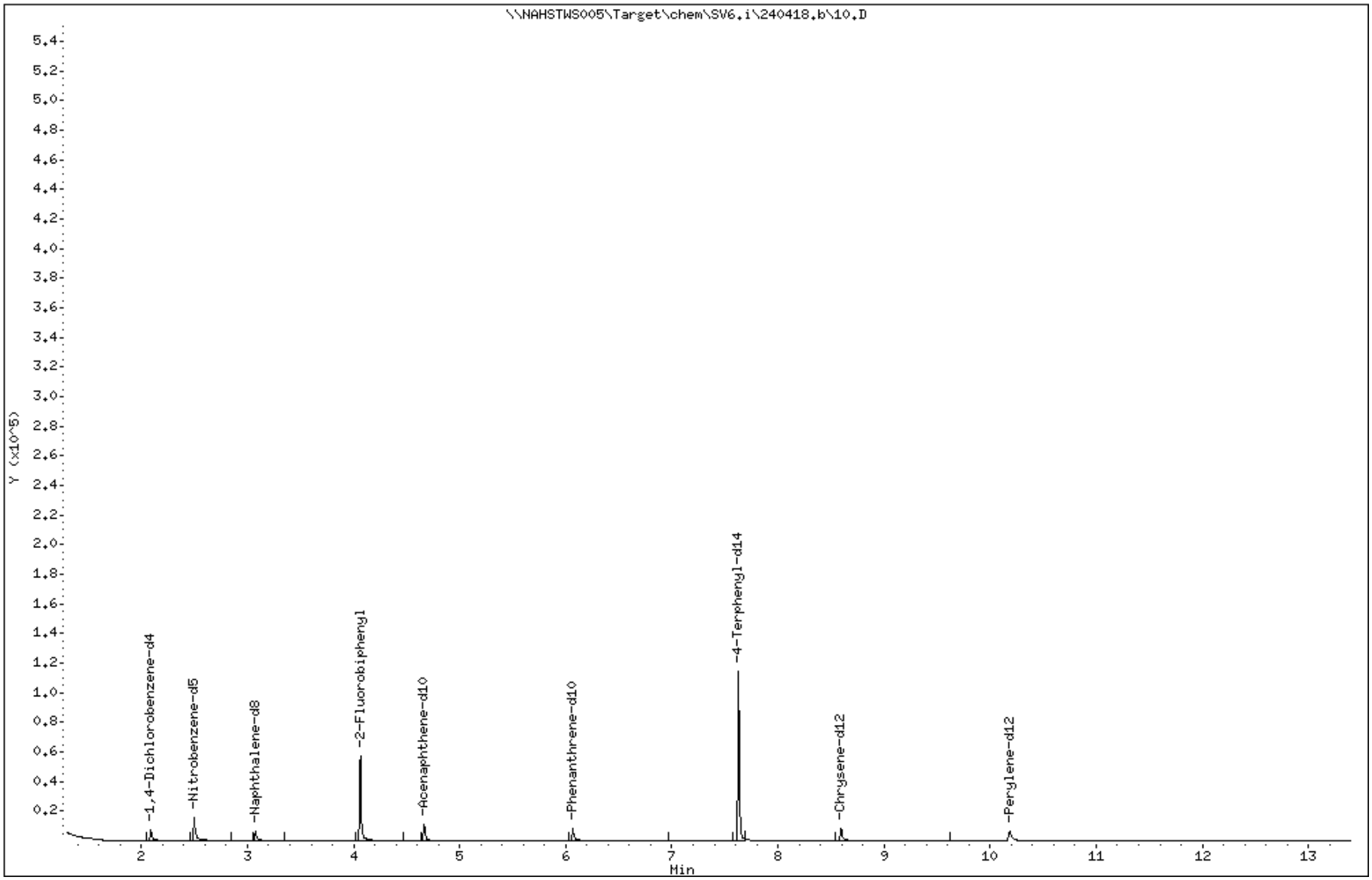
Sample Info: 14DX-0.50

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



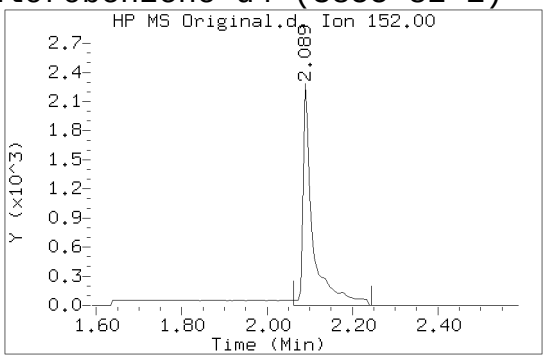
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

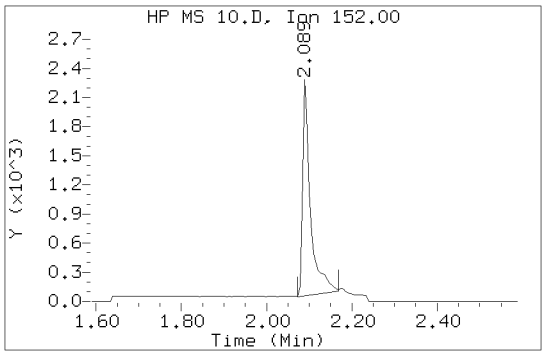
BEFORE

MASS
152
AREA
3637
HEIGHT
2284
18-Apr-2024
14:51
ALSHS
Server



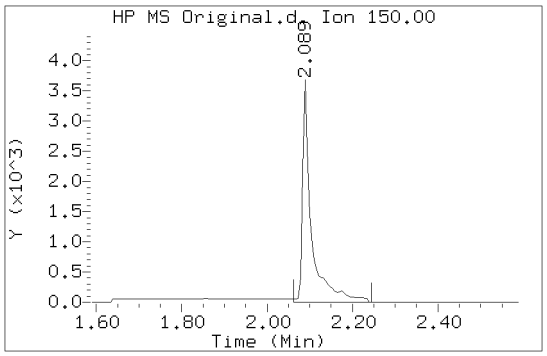

AFTER

MASS
152
AREA
2819
HEIGHT
2227
28-May-2024
13:05



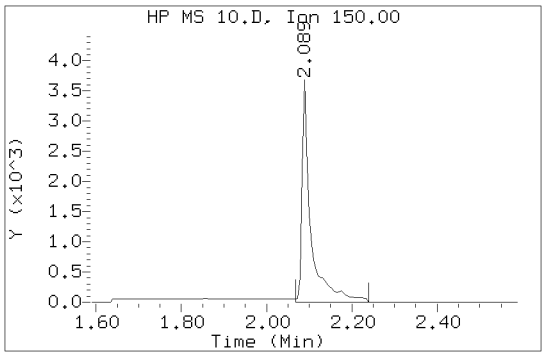

BEFORE

MASS
150
AREA
5370
HEIGHT
3682
18-Apr-2024
14:51
ALSHS
Server



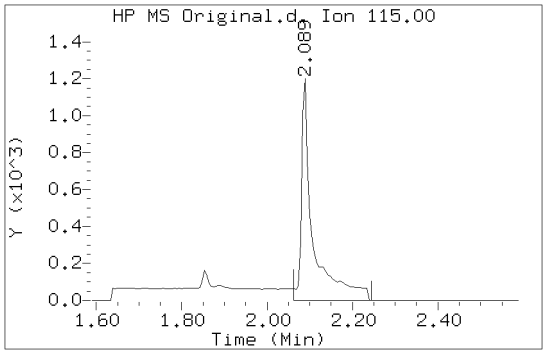

AFTER

MASS
150
AREA
5355
HEIGHT
3682
28-May-2024
13:05



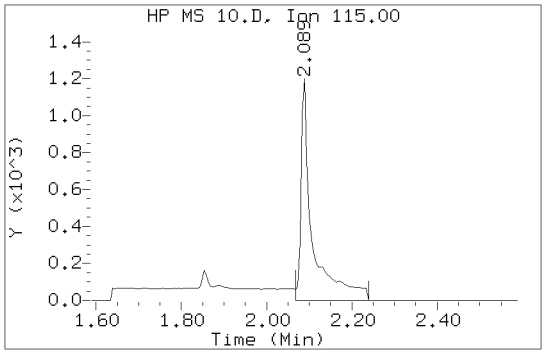

BEFORE

MASS
115
AREA
2255
HEIGHT
1200
18-Apr-2024
14:51
ALSHS
Server




AFTER

MASS
115
AREA
2236
HEIGHT
1200
28-May-2024
13:05

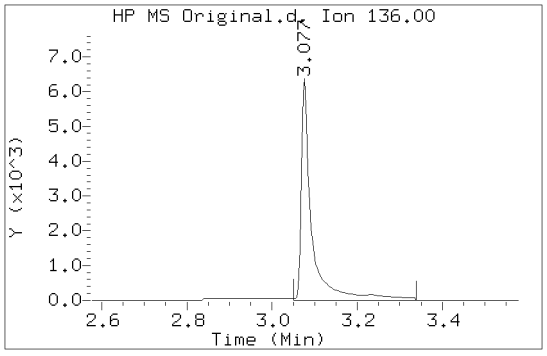



## Naphthalene-d8 (1146-65-2)

Reason Code:

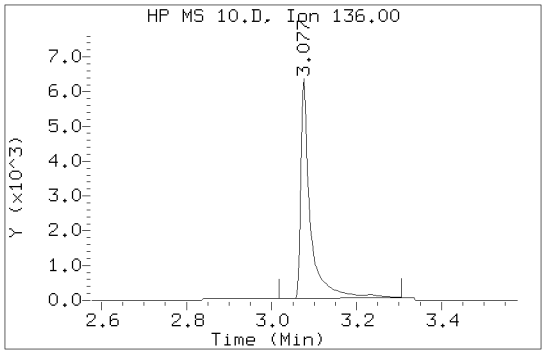
BEFORE

MASS
136
AREA
10944
HEIGHT
6372
18-Apr-2024
14:51
ALSHS
Server




AFTER

MASS
136
AREA
9772
HEIGHT
6315
28-May-2024
13:05



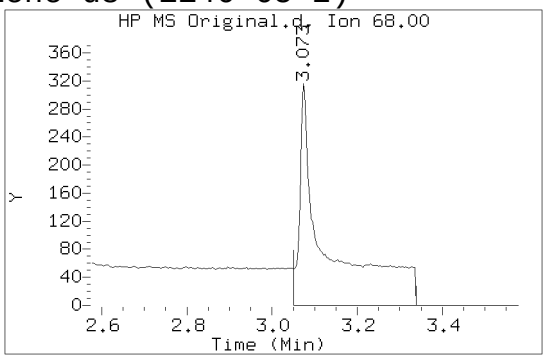
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

## Naphthalene-d8 (1146-65-2)

Reason Code:

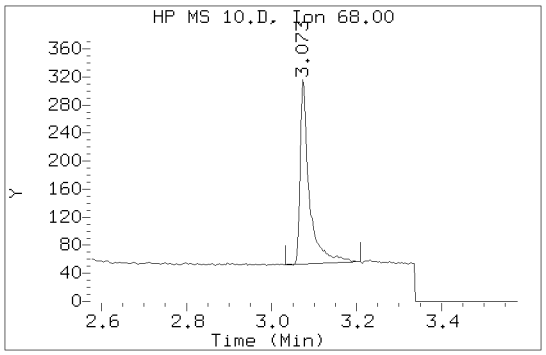
BEFORE

MASS
68
AREA
1337
HEIGHT
316
18-Apr-2024
14:51
ALSHS
Server




AFTER

MASS
68
AREA
385
HEIGHT
262
28-May-2024
13:05

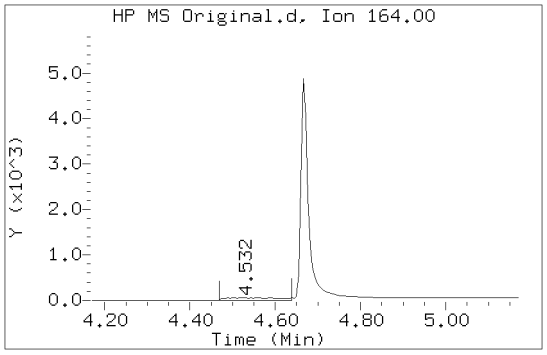



## Acenaphthene-d10 (15067-26-2)

Reason Code:

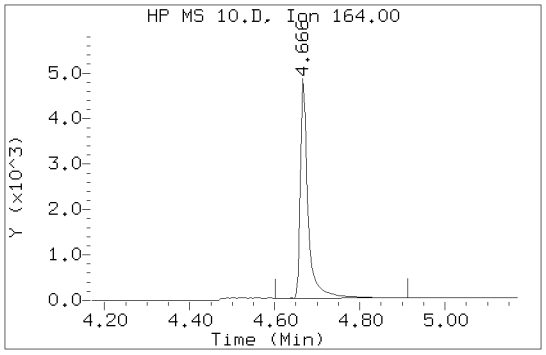
BEFORE

MASS
164
AREA
504
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



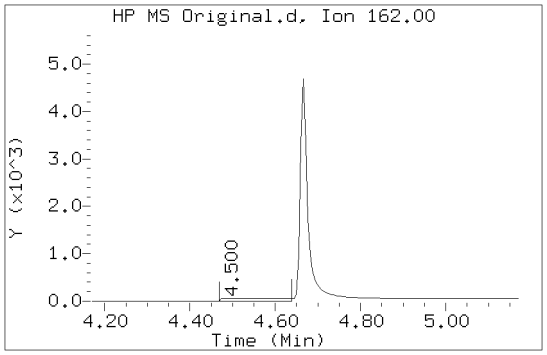

AFTER

MASS
164
AREA
5911
HEIGHT
4828
28-May-2024
13:05



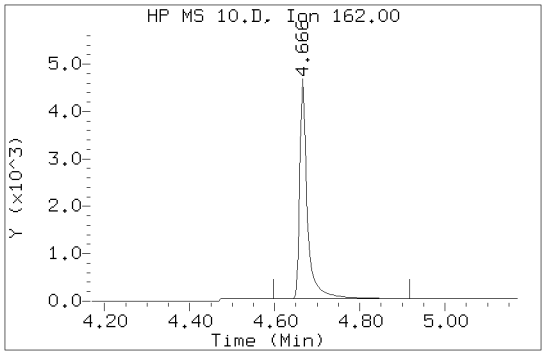

BEFORE

MASS
162
AREA
499
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



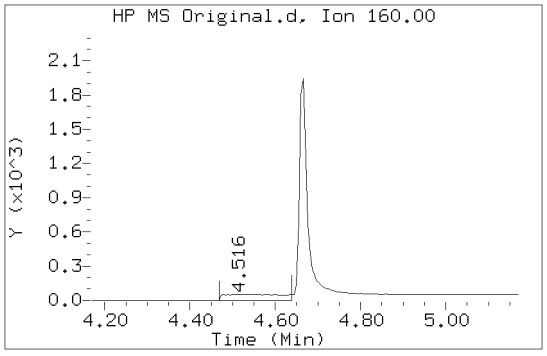

AFTER

MASS
162
AREA
5684
HEIGHT
4637
28-May-2024
13:05



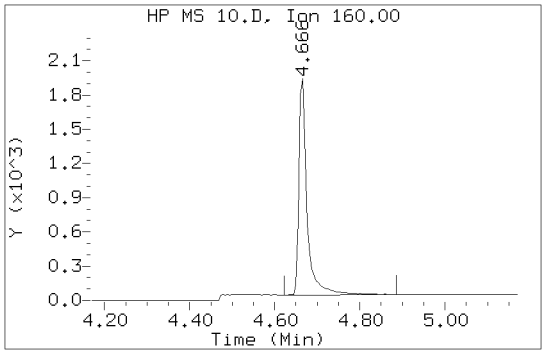

BEFORE

MASS
160
AREA
487
HEIGHT
49
18-Apr-2024
14:51
ALSHS
Server




AFTER

MASS
160
AREA
2489
HEIGHT
1895
28-May-2024
13:05



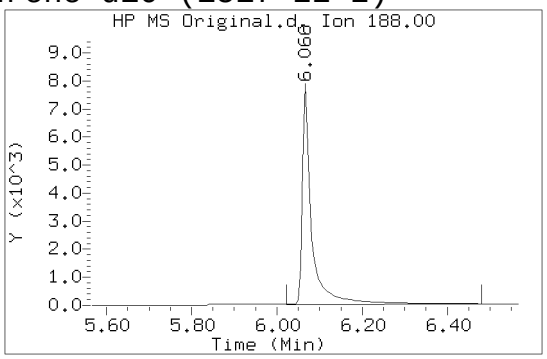
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Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

## Phenanthrene-d10 (1517-22-2)

Reason Code:

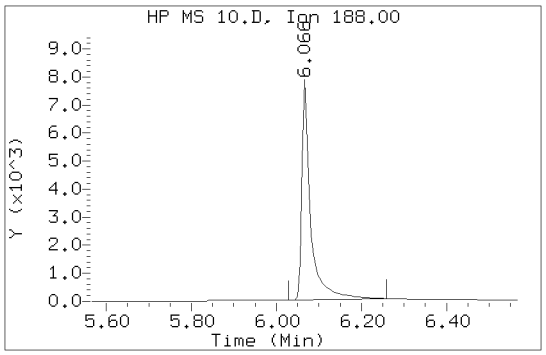
**BEFORE**

MASS
188
AREA
12429
HEIGHT
7885
18-Apr-2024
14:51
ALSHS
Server



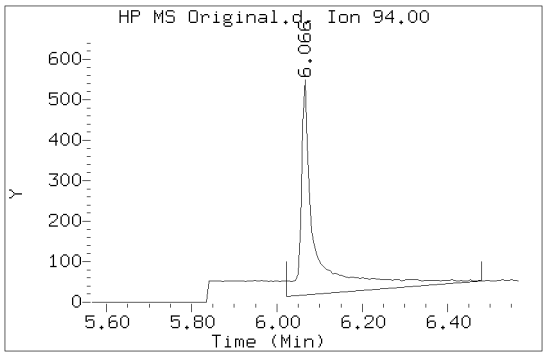

**AFTER**

MASS
188
AREA
11325
HEIGHT
7848
28-May-2024
13:05



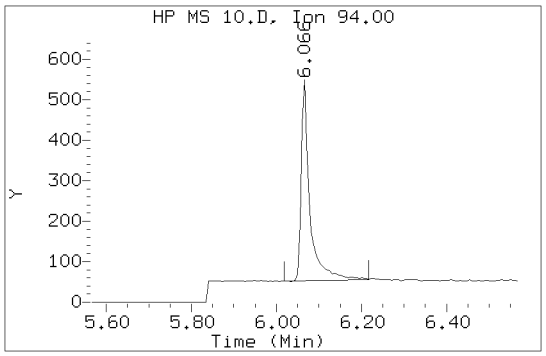

**BEFORE**

MASS
94
AREA
1281
HEIGHT
530
18-Apr-2024
14:51
ALSHS
Server



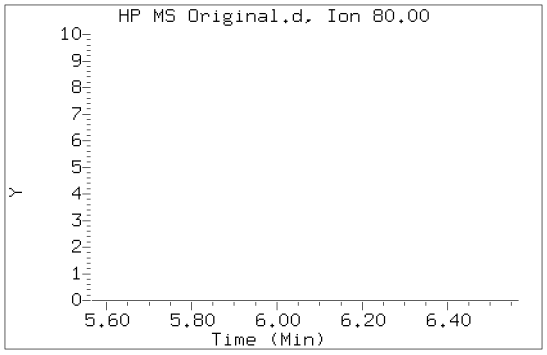

**AFTER**

MASS
94
AREA
704
HEIGHT
496
28-May-2024
13:05



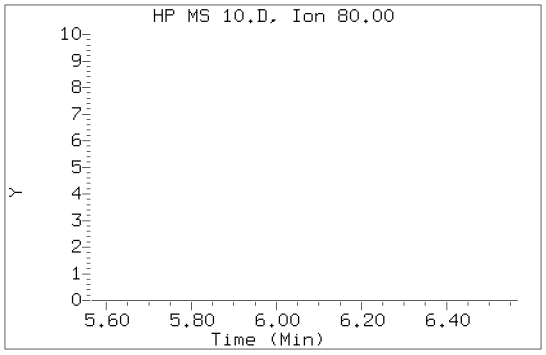

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

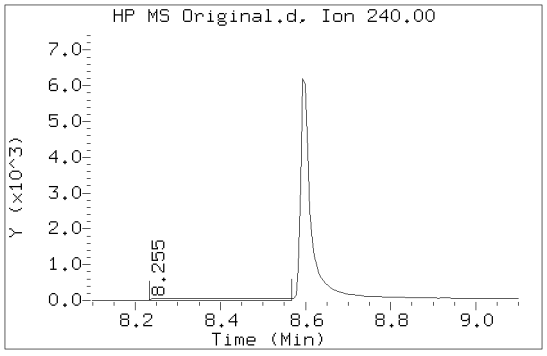



## Chrysene-d12 (1719-03-5)

Reason Code:

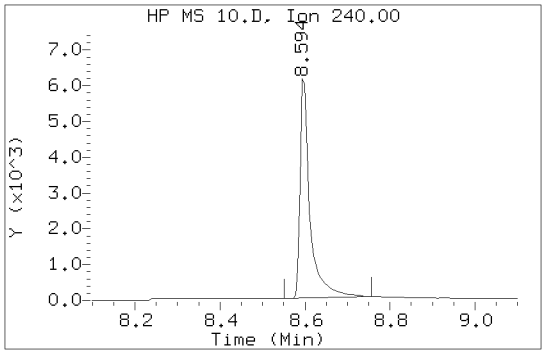
**BEFORE**

MASS
240
AREA
983
HEIGHT
51
18-Apr-2024
14:51
ALSHS
Server




**AFTER**

MASS
240
AREA
9856
HEIGHT
6137
28-May-2024
13:05



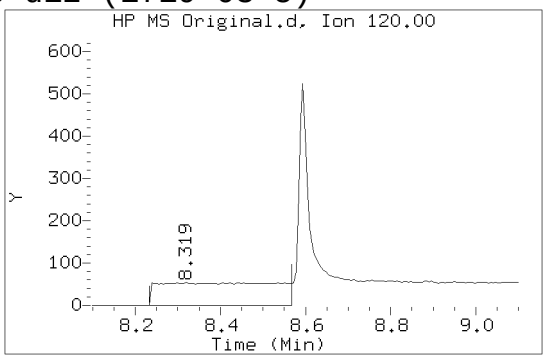
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

## Chrysene-d12 (1719-03-5)

Reason Code:

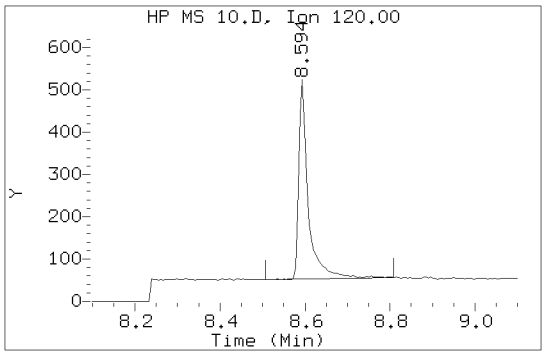
**BEFORE**

MASS
120
AREA
1034
HEIGHT
54
18-Apr-2024
14:51
ALSHS
Server



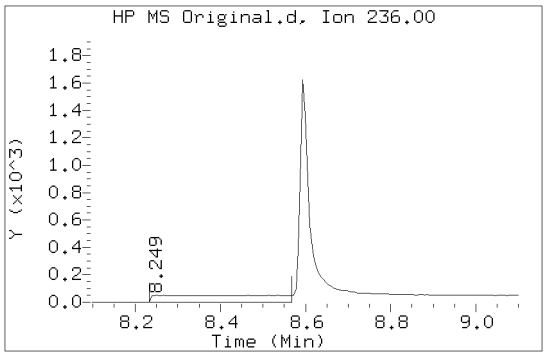

**AFTER**

MASS
120
AREA
718
HEIGHT
470
28-May-2024
13:05



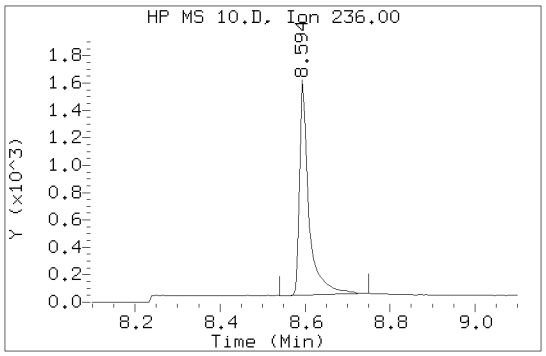

**BEFORE**

MASS
236
AREA
972
HEIGHT
50
18-Apr-2024
14:51
ALSHS
Server




**AFTER**

MASS
236
AREA
2369
HEIGHT
1570
28-May-2024
13:05

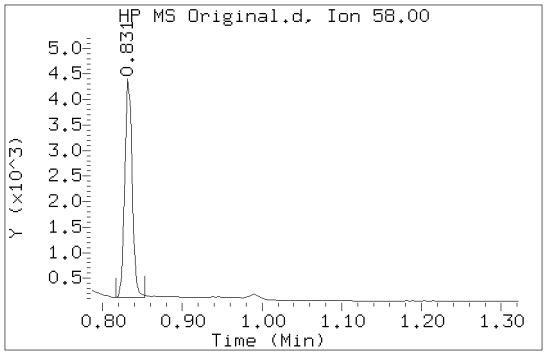



## 1,4-Dioxane ()

Reason Code:

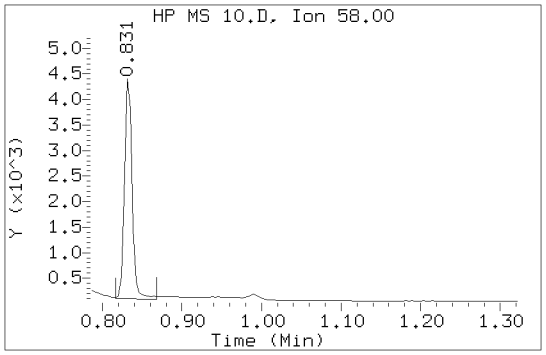
**BEFORE**

MASS
58
AREA
2715
HEIGHT
4282
18-Apr-2024
14:51
ALSHS
Server



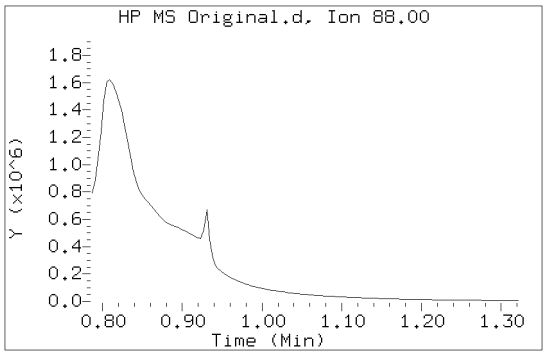

**AFTER**

MASS
58
AREA
2813
HEIGHT
4303
28-May-2024
13:05



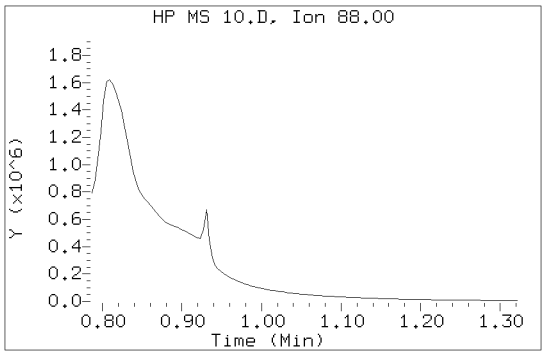

**BEFORE**

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server




**AFTER**

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05



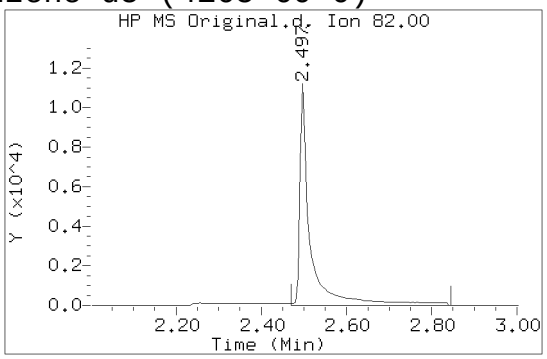
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Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

## Nitrobenzene-d5 (4165-60-0)

Reason Code:

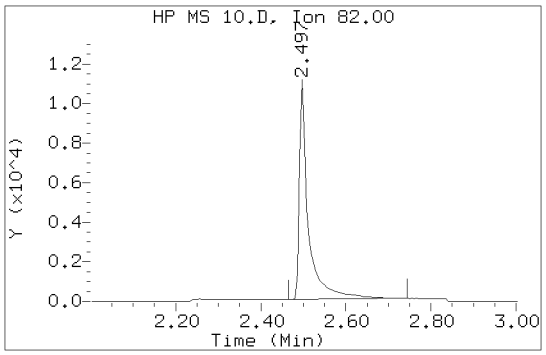
**BEFORE**

MASS
82
AREA
18735
HEIGHT
11209
18-Apr-2024
14:51
ALSHS
Server



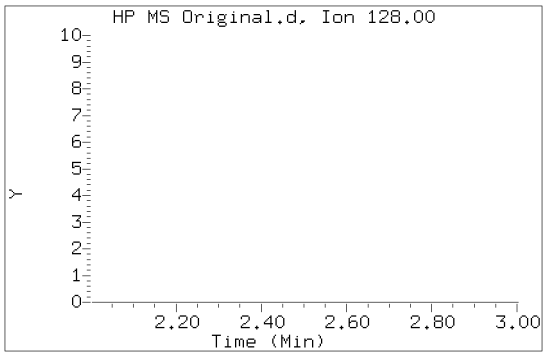

**AFTER**

MASS
82
AREA
15956
HEIGHT
11102
28-May-2024
13:05



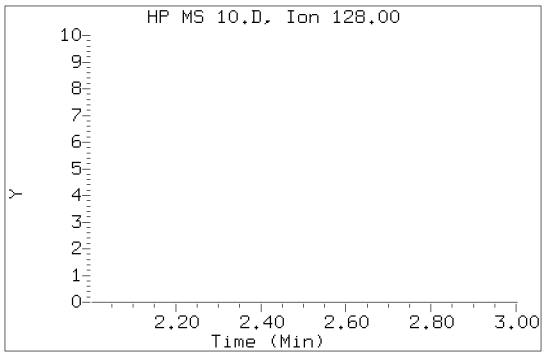

**BEFORE**

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



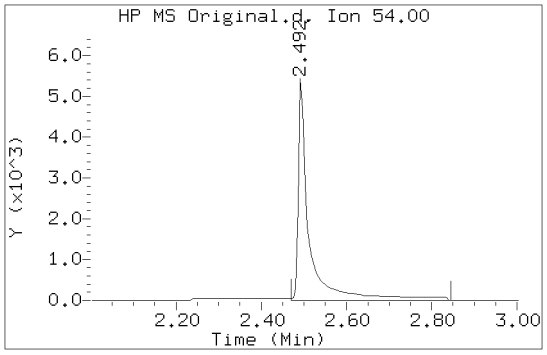

**AFTER**

MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



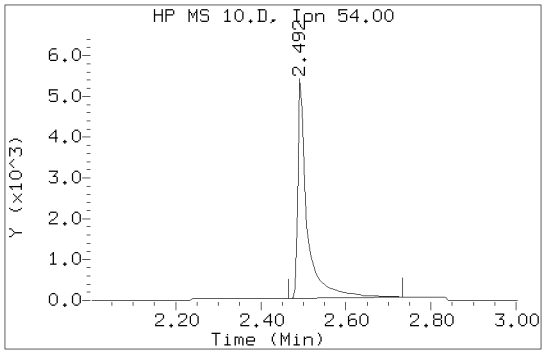

**BEFORE**

MASS
54
AREA
9543
HEIGHT
5435
18-Apr-2024
14:51
ALSHS
Server




**AFTER**

MASS
54
AREA
8025
HEIGHT
5379
28-May-2024
13:05

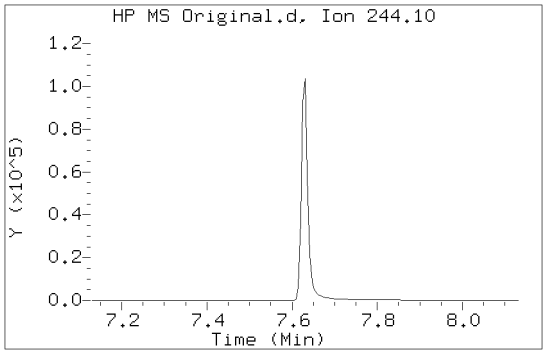



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

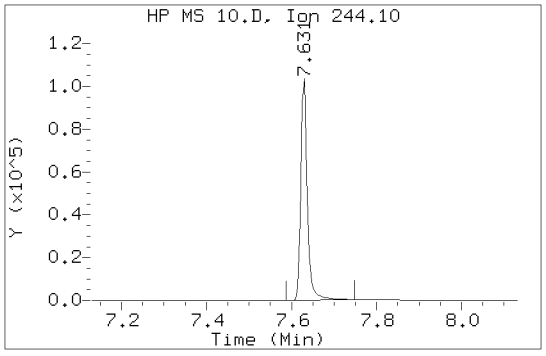
**BEFORE**

MASS
244.1
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server




**AFTER**

MASS
244.1
AREA
111493
HEIGHT
103434
28-May-2024
13:05



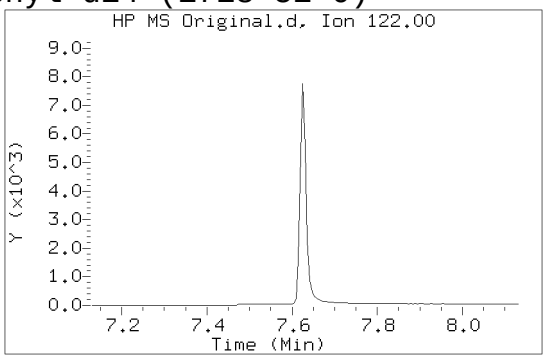
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

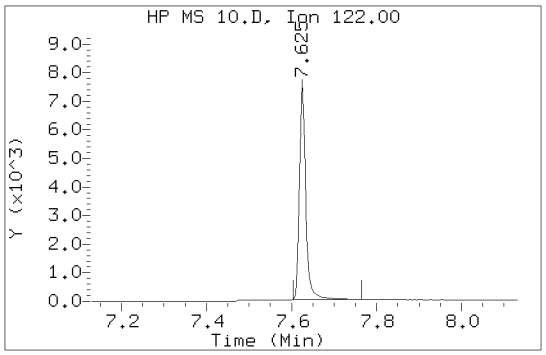
**BEFORE**

MASS
122
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



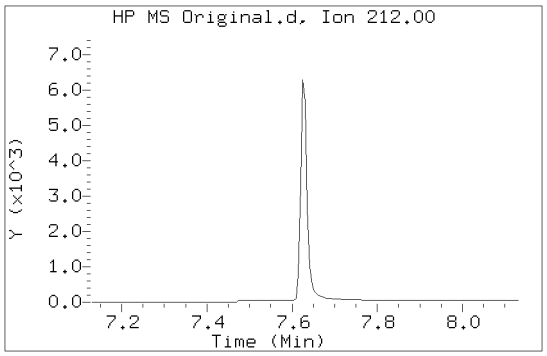

**AFTER**

MASS
122
AREA
7961
HEIGHT
7695
28-May-2024
13:05



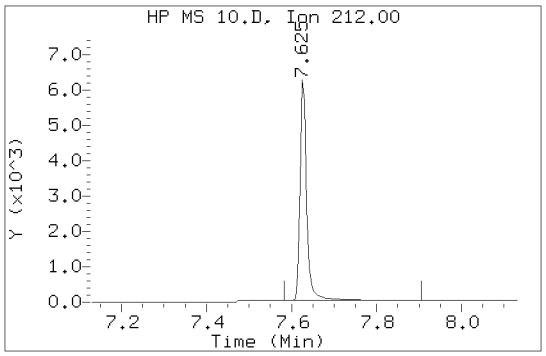

**BEFORE**

MASS
212
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server




**AFTER**

MASS
212
AREA
6900
HEIGHT
6243
28-May-2024
13:05

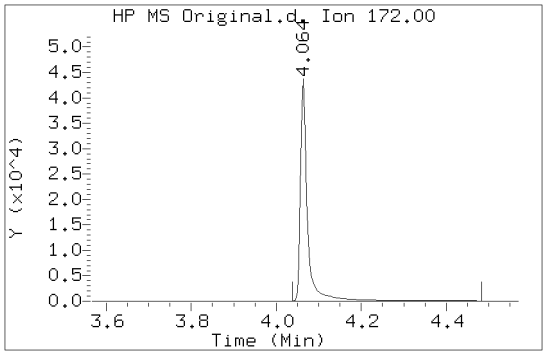



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

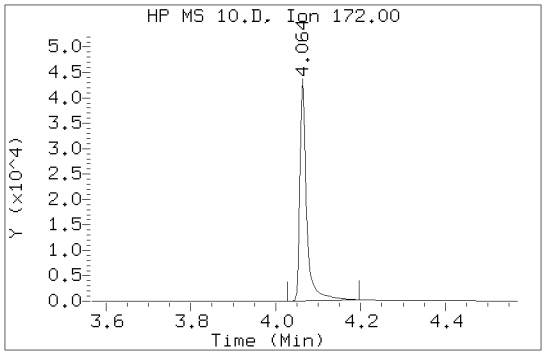
**BEFORE**

MASS
172
AREA
51564
HEIGHT
43720
18-Apr-2024
14:51
ALSHS
Server



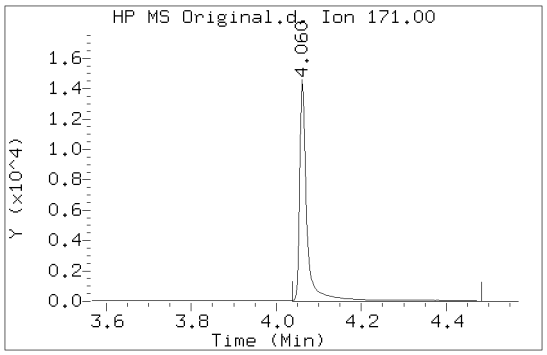

**AFTER**

MASS
172
AREA
47534
HEIGHT
43625
28-May-2024
13:05



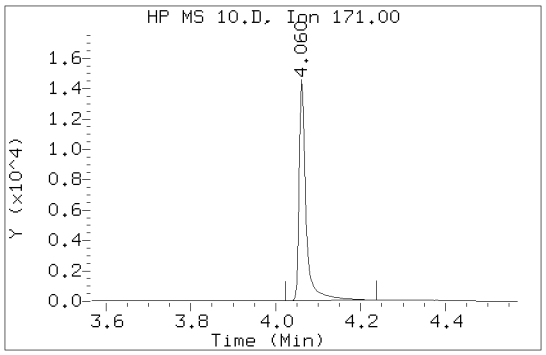

**BEFORE**

MASS
171
AREA
18313
HEIGHT
14592
18-Apr-2024
14:51
ALSHS
Server




**AFTER**

MASS
171
AREA
16377
HEIGHT
14537
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D Page 1
Report Date: 25-Jul-2024 11:39

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Lab Smp Id: 14DX ICV-0.08 Client Smp ID: 14DX ICV-0.08
Inj Date : 18-APR-2024 14:53
Operator : LG Inst ID: SV6.i
Smp Info : 14DX ICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 25-Jul-2024 11:38 donna.brou Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 11 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7019

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 2.094 | 2.089 | (1.000) | 2645 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 3.076 | 3.076 | (1.000) | 7708 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 2.496 | 2.502 | (0.812) | 1691 | 0.07308 | 0.07308(M) |
| * 86 Acenaphthene-d10 | 164 | 4.665 | 4.671 | (1.000) | 5072 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 4.063 | 4.067 | (0.871) | 5460 | 0.07042 | 0.07042(M) |
| * 126 Phenanthrene-d10 | 188 | 6.065 | 6.065 | (1.000) | 10292 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 8.593 | 8.599 | (1.000) | 7884 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 7.630 | 7.630 | (0.888) | 11331 | 0.07055 | 0.07055(M) |
| * 198 Perylene-d12 | 264 | 10.184 | 10.189 | (1.000) | 8007 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 0.838 | 0.820 | (0.400) | 429 | 0.07572 | 0.07572 |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D



Date : 18-APR-2024 14:53

Client ID: 14DX ICV-0.08

Instrument: SV6.i

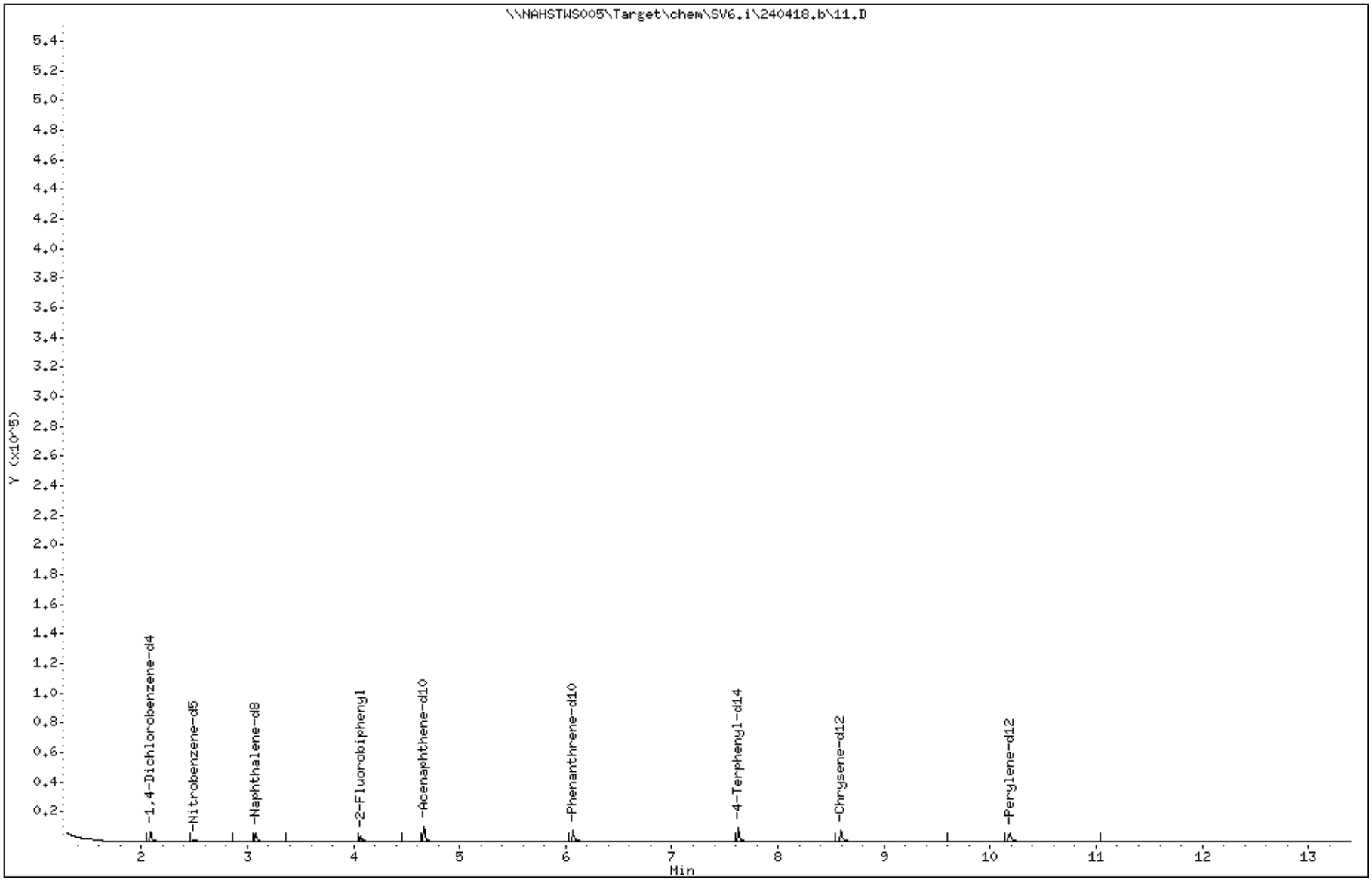
Sample Info: 14DX ICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

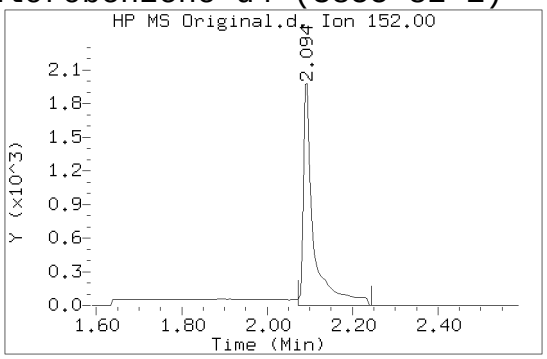


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

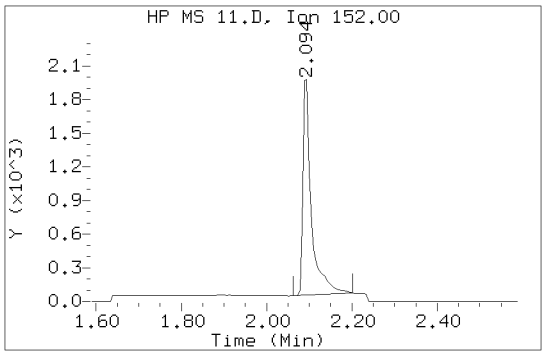
## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

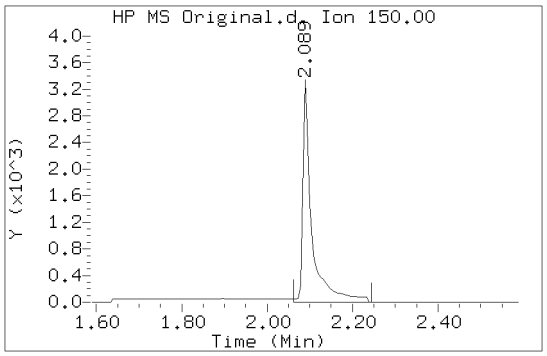
BEFORE
MASS
152
AREA
3284
HEIGHT
1978
18-Apr-2024
15:08
ALSHS
Server



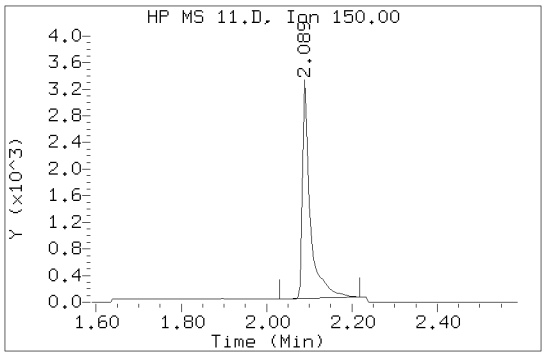

AFTER
MASS
152
AREA
2645
HEIGHT
1921
25-Jul-2024
11:39



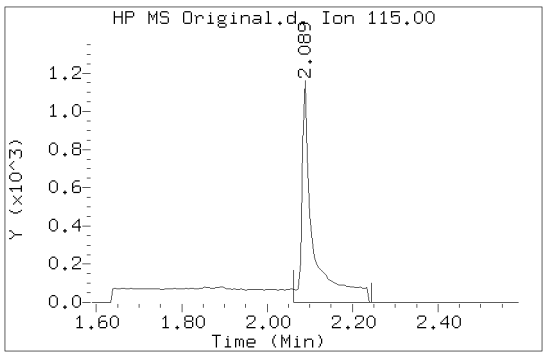

BEFORE
MASS
150
AREA
4880
HEIGHT
3340
18-Apr-2024
15:08
ALSHS
Server



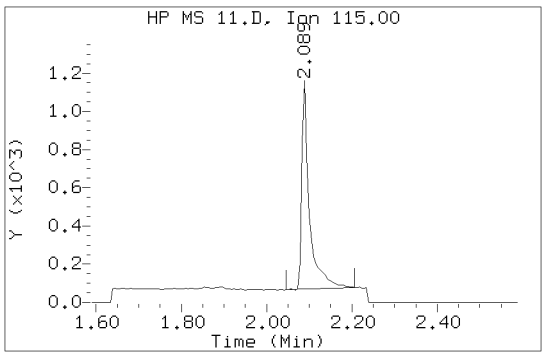

AFTER
MASS
150
AREA
4160
HEIGHT
3281
25-Jul-2024
11:39




BEFORE
MASS
115
AREA
2134
HEIGHT
1161
18-Apr-2024
15:08
ALSHS
Server



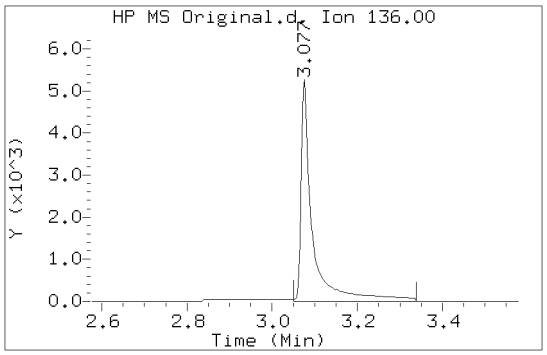

AFTER
MASS
115
AREA
1363
HEIGHT
1092
25-Jul-2024
11:39



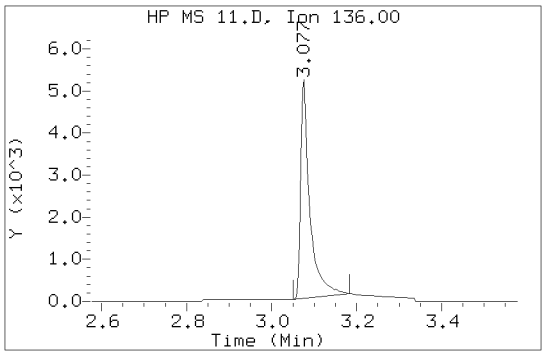

## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
9692
HEIGHT
5268
18-Apr-2024
15:08
ALSHS
Server




AFTER
MASS
136
AREA
7708
HEIGHT
5193
25-Jul-2024
11:39



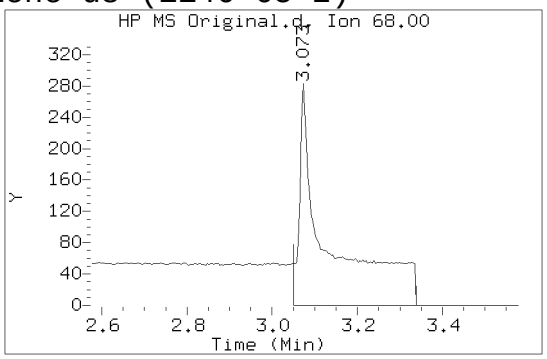
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

## Naphthalene-d8 (1146-65-2)

Reason Code:

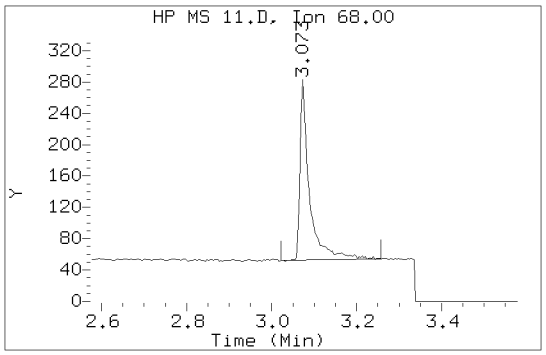
BEFORE

MASS
68
AREA
1275
HEIGHT
283
18-Apr-2024
15:08
ALSHS
Server




AFTER

MASS
68
AREA
353
HEIGHT
230
25-Jul-2024
11:39

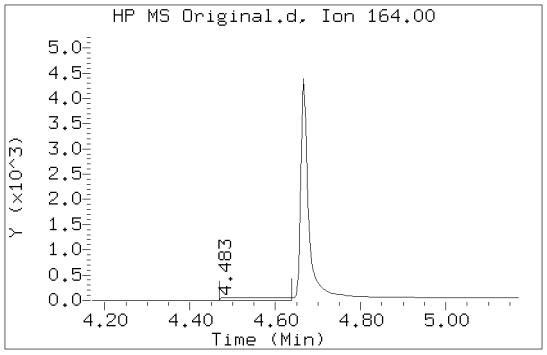



## Acenaphthene-d10 (15067-26-2)

Reason Code:

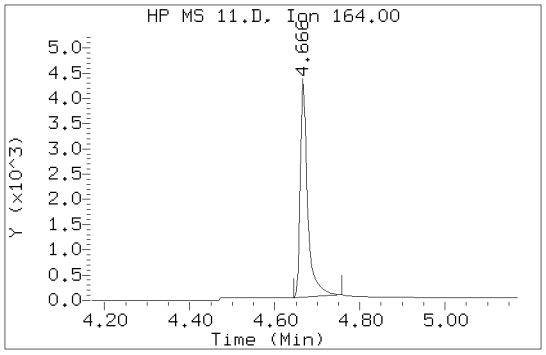
BEFORE

MASS
164
AREA
510
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



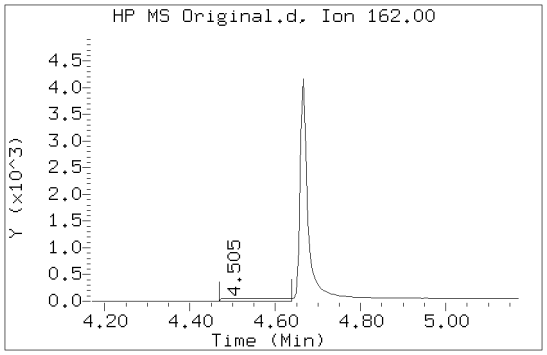

AFTER

MASS
164
AREA
5072
HEIGHT
4329
25-Jul-2024
11:39



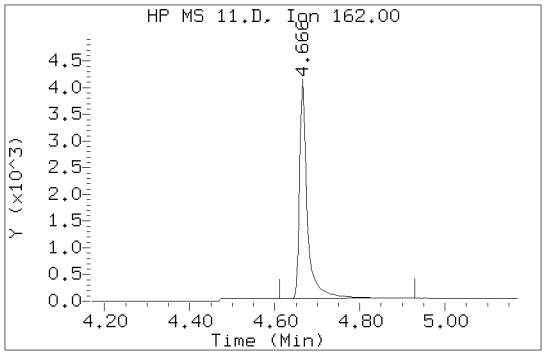

BEFORE

MASS
162
AREA
503
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



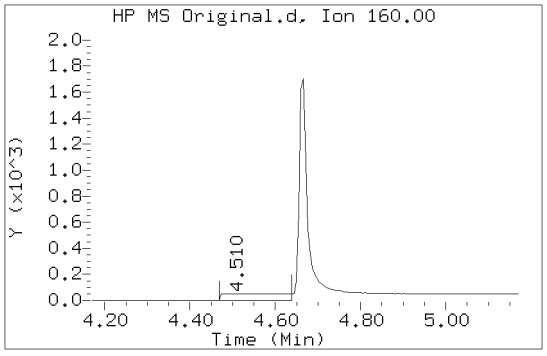

AFTER

MASS
162
AREA
5122
HEIGHT
4113
25-Jul-2024
11:39



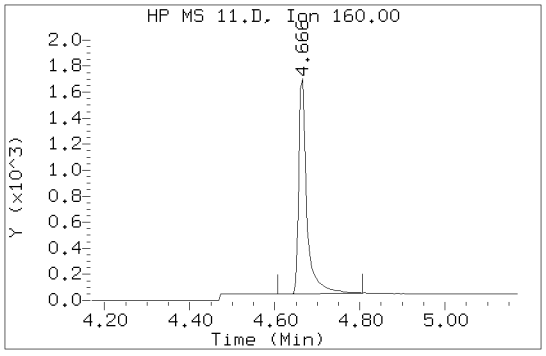

BEFORE

MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server




AFTER

MASS
160
AREA
2174
HEIGHT
1653
25-Jul-2024
11:39



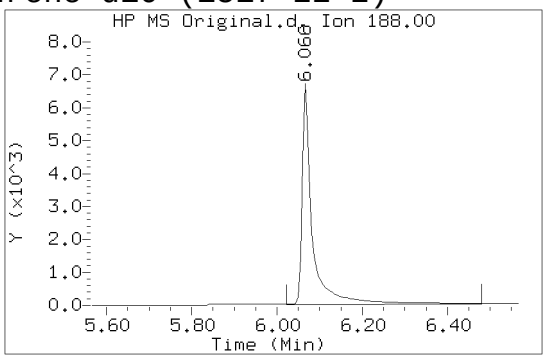
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

## Phenanthrene-d10 (1517-22-2)

Reason Code:

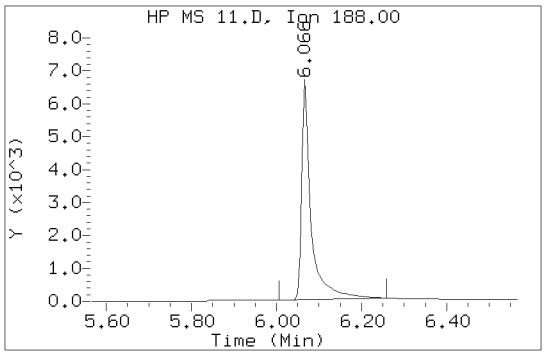
**BEFORE**

MASS
188
AREA
11412
HEIGHT
6713
18-Apr-2024
15:08
ALSHS
Server



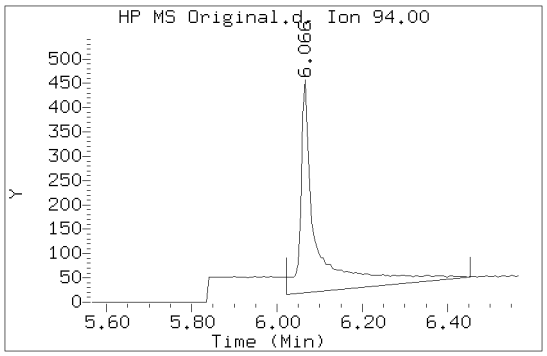

**AFTER**

MASS
188
AREA
10292
HEIGHT
6674
25-Jul-2024
11:39



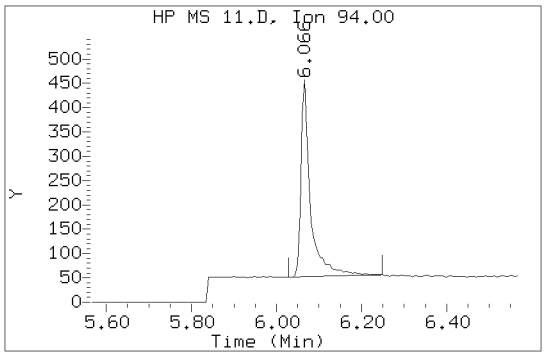

**BEFORE**

MASS
94
AREA
1149
HEIGHT
437
18-Apr-2024
15:08
ALSHS
Server



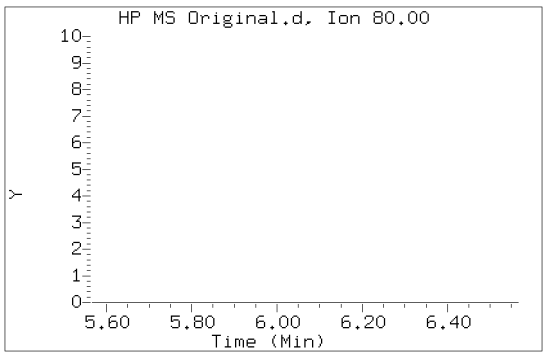

**AFTER**

MASS
94
AREA
624
HEIGHT
404
25-Jul-2024
11:39



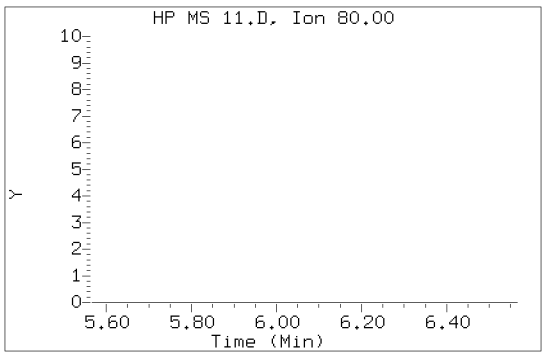

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
25-Jul-2024
11:39

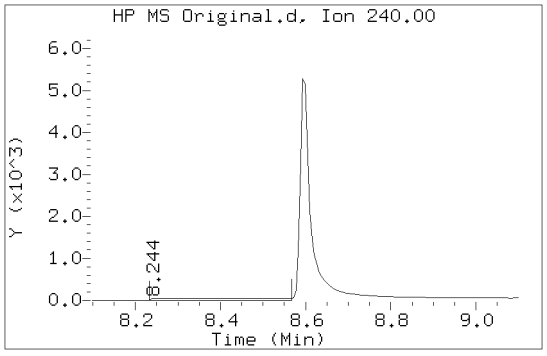



## Chrysene-d12 (1719-03-5)

Reason Code:

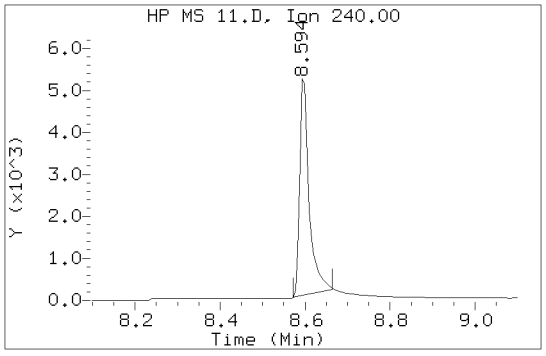
**BEFORE**

MASS
240
AREA
945
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server




**AFTER**

MASS
240
AREA
7884
HEIGHT
5168
25-Jul-2024
11:39

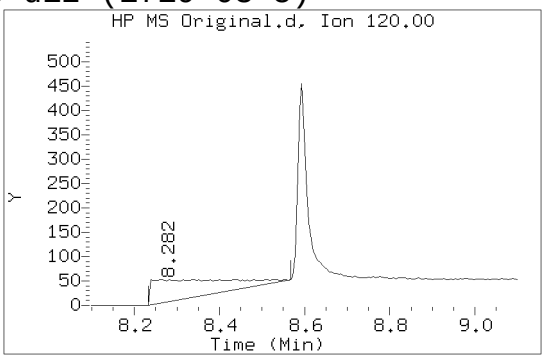


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

## Chrysene-d12 (1719-03-5)

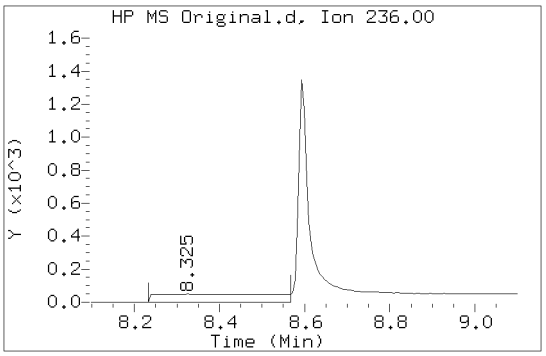
### BEFORE

MASS
120
AREA
488
HEIGHT
45
18-Apr-2024
15:08
ALSHS
Server




### BEFORE

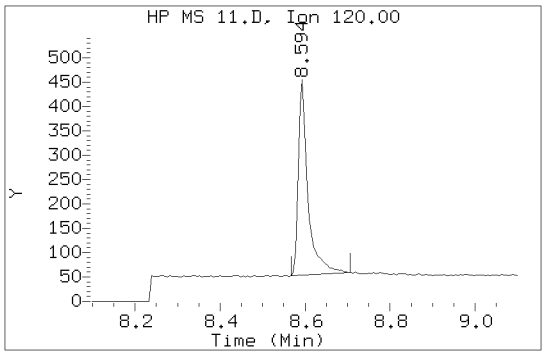
MASS
236
AREA
948
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server




### Reason Code:

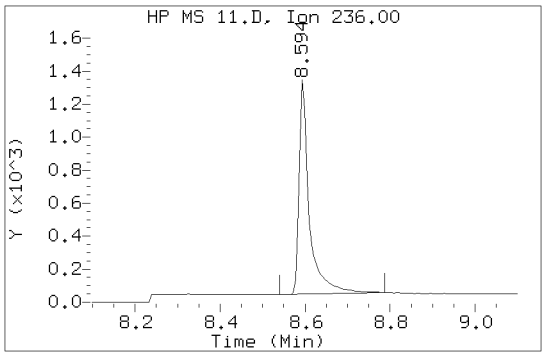
### AFTER

MASS
120
AREA
625
HEIGHT
400
25-Jul-2024
11:39




### AFTER

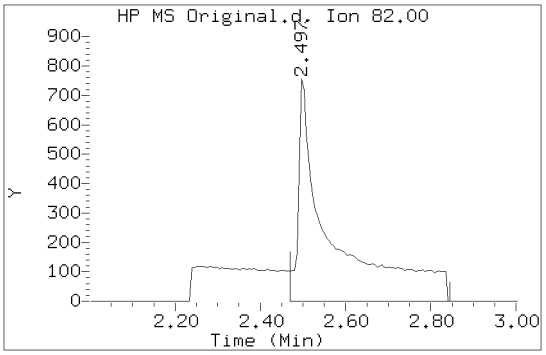
MASS
236
AREA
2142
HEIGHT
1296
25-Jul-2024
11:39




## Nitrobenzene-d5 (4165-60-0)

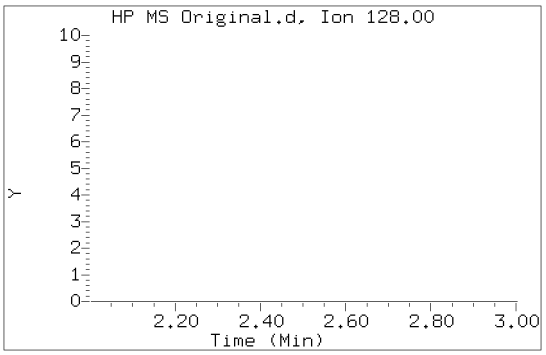
### BEFORE

MASS
82
AREA
3957
HEIGHT
756
18-Apr-2024
15:08
ALSHS
Server




### BEFORE

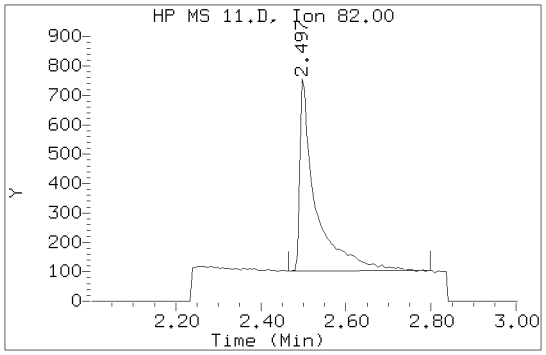
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server




### Reason Code:

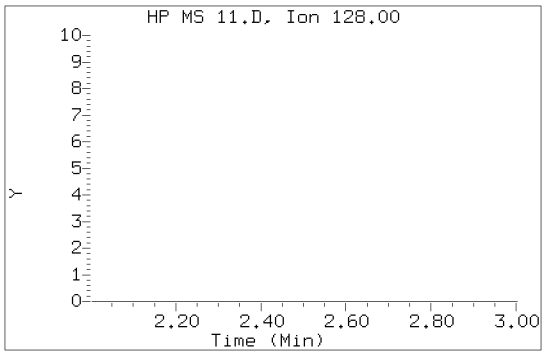
### AFTER

MASS
82
AREA
1691
HEIGHT
653
25-Jul-2024
11:39




### AFTER

MASS
128
AREA
0
HEIGHT
0
25-Jul-2024
11:39



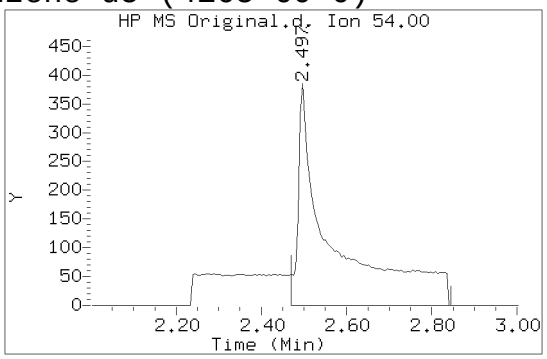
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

## Nitrobenzene-d5 (4165-60-0)

Reason Code:

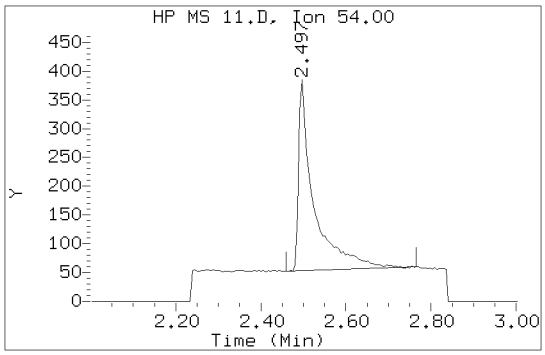
**BEFORE**

MASS
54
AREA
2061
HEIGHT
385
18-Apr-2024
15:08
ALSHS
Server




**AFTER**

MASS
54
AREA
818
HEIGHT
332
25-Jul-2024
11:39

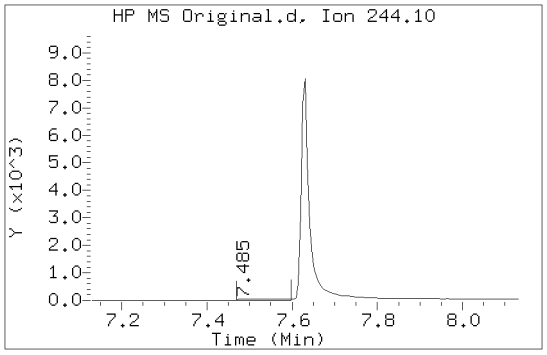



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

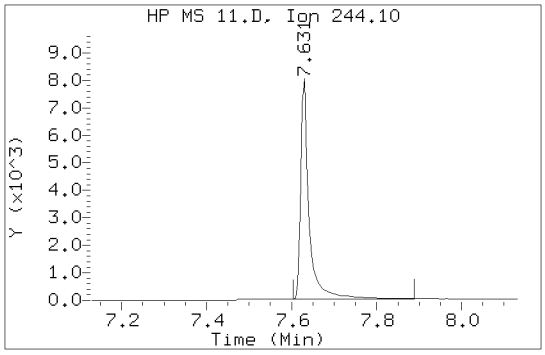
**BEFORE**

MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



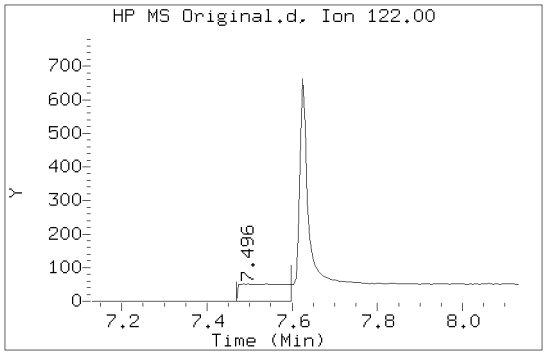

**AFTER**

MASS
244.1
AREA
11331
HEIGHT
8023
25-Jul-2024
11:39



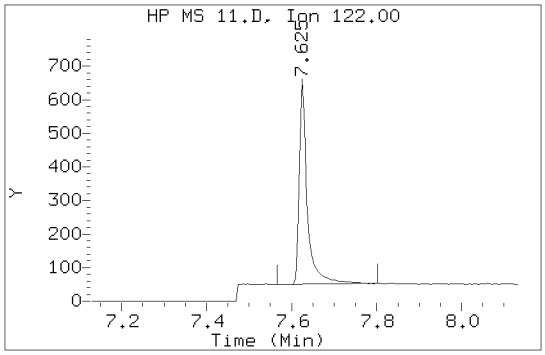

**BEFORE**

MASS
122
AREA
387
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



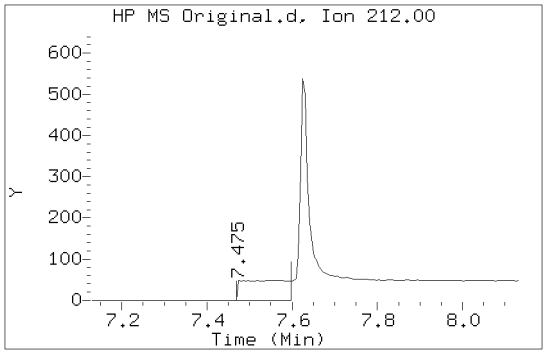

**AFTER**

MASS
122
AREA
801
HEIGHT
611
25-Jul-2024
11:39



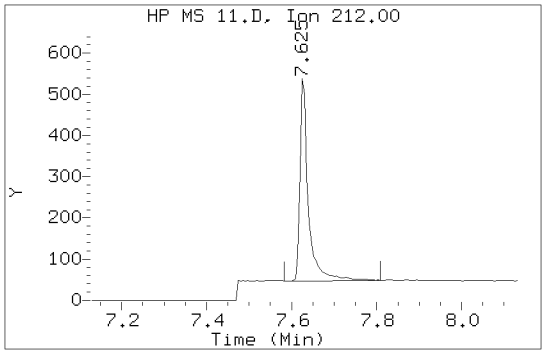

**BEFORE**

MASS
212
AREA
367
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server




**AFTER**

MASS
212
AREA
675
HEIGHT
490
25-Jul-2024
11:39

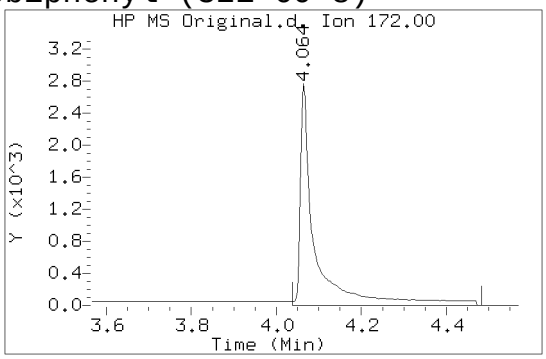


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

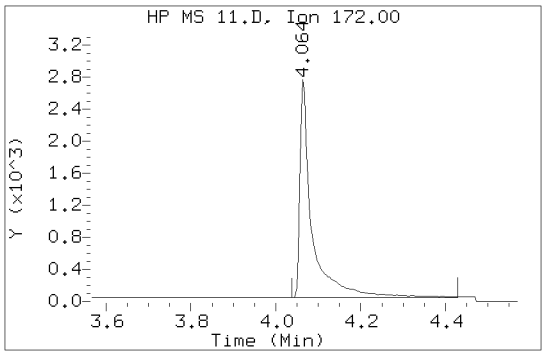
2-Fluorobiphenyl (321-60-8)

Reason Code:

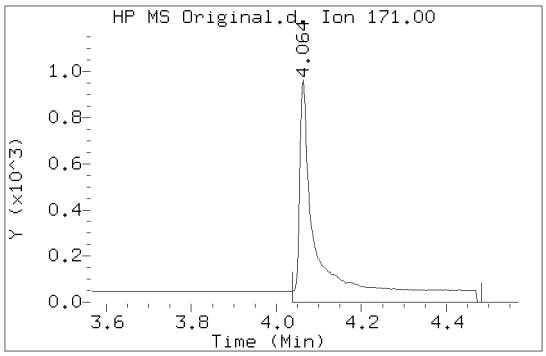
BEFORE
MASS
172
AREA
6739
HEIGHT
2770
18-Apr-2024
15:08
ALSHS
Server



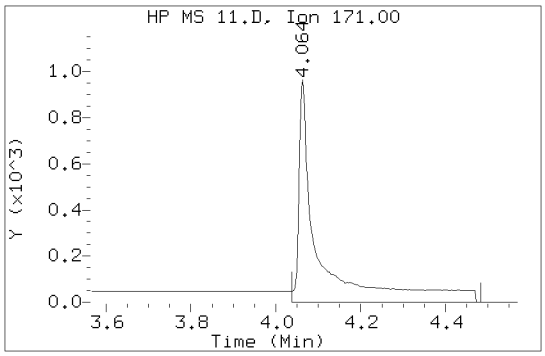

AFTER
MASS
172
AREA
5460
HEIGHT
2724
25-Jul-2024
11:39




BEFORE
MASS
171
AREA
3102
HEIGHT
964
18-Apr-2024
15:08
ALSHS
Server




AFTER
MASS
171
AREA
3102
HEIGHT
964
25-Jul-2024
11:39



# HS24061218 - ME - HG_W_DODICP_W_DOD

ALS WO# HS24061218

**ALS Houston, US** Date: 26-Jul-24

## FORM 13 - ANALYSIS RUN LOG

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218
Start Date: 01-Jul-2024 End Date: 01-Jul-2024

Run ID:HG04_470995
Instrument:HG04
Method:SW7470A

| Sample No. | D/F | Time | FileID | Analytes |
|---|---|---|---|---|
| ICV | 1 | 01-Jul-2024 11:35 | HG04_470995 Raw Data_8117491 | HG |
| ICB | 1 | 01-Jul-2024 11:37 | _8117492 | HG |
| CRA | 1 | 01-Jul-2024 11:39 | _8117493 | HG |
| CCV 1 | 1 | 01-Jul-2024 11:45 | _8117494 | HG |
| CCB 1 | 1 | 01-Jul-2024 11:46 | _8117495 | HG |
| CCV 2 | 1 | 01-Jul-2024 12:10 | _8117506 | HG |
| CCB 2 | 1 | 01-Jul-2024 12:12 | _8117507 | HG |
| CCV 3 | 1 | 01-Jul-2024 12:31 | _8117518 | HG |
| CCB 3 | 1 | 01-Jul-2024 12:33 | _8117519 | HG |
| CCV 4 | 1 | 01-Jul-2024 13:00 | _8117650 | HG |
| CCB 4 | 1 | 01-Jul-2024 13:02 | _8117651 | HG |
| CCV 5 | 1 | 01-Jul-2024 13:30 | _8117662 | HG |
| CCB 5 | 1 | 01-Jul-2024 13:32 | _8117663 | HG |
| CCV 6 | 1 | 01-Jul-2024 13:51 | _8117674 | HG |
| CCB 6 | 1 | 01-Jul-2024 13:53 | _8117675 | HG |
| CCV 7 | 1 | 01-Jul-2024 14:15 | _8117690 | HG |
| CCB 7 | 1 | 01-Jul-2024 14:17 | _8117691 | HG |
| CCV 8 | 1 | 01-Jul-2024 14:40 | _8117702 | HG |
| CCB 8 | 1 | 01-Jul-2024 14:41 | _8117703 | HG |
| CCV 9 | 1 | 01-Jul-2024 14:56 | _8117708 | HG |
| CCB 9 | 1 | 01-Jul-2024 14:58 | _8117709 | HG |
| CCV 10 | 1 | 01-Jul-2024 16:35 | _8117710 | HG |
| CCB 10 | 1 | 01-Jul-2024 16:36 | _8117711 | HG |
| CCV 11 | 1 | 01-Jul-2024 17:01 | _8117722 | HG |
| CCB 11 | 1 | 01-Jul-2024 17:03 | _8117723 | HG |
| CCV 12 | 1 | 01-Jul-2024 17:23 | _8117734 | HG |
| CCB 12 | 1 | 01-Jul-2024 17:24 | _8117735 | HG |
| MBLK-214374 | 1 | 01-Jul-2024 17:38 | _8117742 | HG |
| LCS-214374 | 1 | 01-Jul-2024 17:39 | _8117743 | HG |
| CCV 13 | 1 | 01-Jul-2024 17:46 | _8117746 | HG |
| CCB 13 | 1 | 01-Jul-2024 17:48 | _8117747 | HG |
| 18WW18_061724 | 1 | 01-Jul-2024 17:58 | _8117753 | HG |
| CO3_061724 | 1 | 01-Jul-2024 18:00 | _8117754 | HG |
| 18CPTMW18_061724 | 1 | 01-Jul-2024 18:01 | _8117755 | HG |
| MW19_061724 | 1 | 01-Jul-2024 18:03 | _8117756 | HG |
| CCV 14 | 1 | 01-Jul-2024 18:08 | _8117758 | HG |
| CCB 14 | 1 | 01-Jul-2024 18:10 | _8117759 | HG |
| ZZZZZZMS | 1 | 01-Jul-2024 18:13 | _8117760 | HG |
| ZZZZZZMSD | 1 | 01-Jul-2024 18:15 | _8117761 | HG |
| CCV 15 | 1 | 01-Jul-2024 18:29 | _8117765 | HG |
| CCB 15 | 1 | 01-Jul-2024 18:31 | _8117766 | HG |
| CRA | 1 | 01-Jul-2024 18:35 | _8117767 | HG |

**ALS Houston, US** Date: 26-Jul-24

## FORM 13 - ANALYSIS RUN LOG

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218
Start Date: 28-Jun-2024 End Date: 28-Jun-2024

Run ID:ICPMS07_470725
Instrument:ICPMS07
Method:

| Sample No. | D/F | Time | FileID | Analytes |
|---|---|---|---|---|
| ICPMS07_470725_Tune | 1 | 28-Jun-2024 00:00 | ICPMS07_470725_Tune_1 | |
| CAL BLK | 1 | 28-Jun-2024 10:48 | 010CALB.d_8105699 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 2/10/200 | 1 | 28-Jun-2024 10:51 | 011CALS.d_8105700 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 5/25/500 | 1 | 28-Jun-2024 10:54 | 012CALS.d_8105701 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 10/50/100 | 1 | 28-Jun-2024 10:56 | 013CALS.d_8105702 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 100/500/10K | 1 | 28-Jun-2024 10:59 | 014CALS.d_8105703 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 200/1000/20K | 1 | 28-Jun-2024 11:02 | 015CALS.d_8105704 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| ICV | 1 | 28-Jun-2024 11:10 | 017_ICV.d_8105706 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| LLICV2 | 1 | 28-Jun-2024 11:15 | 019LCV2.d_8105708 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| LLICV5 | 1 | 28-Jun-2024 11:17 | 020LCV5.d_8105709 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| ICB | 1 | 28-Jun-2024 11:20 | 021_ICB.d_8105710 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| ICSA | 1 | 28-Jun-2024 11:25 | 023ICSA.d_8105712 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| ICSAB | 1 | 28-Jun-2024 11:27 | 024ICSB.d_8105713 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CAL BLK | 1 | 28-Jun-2024 18:26 | 165CALB.d_8107555 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 2/10/200 | 1 | 28-Jun-2024 18:28 | 166CALS.d_8107556 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 5/25/500 | 1 | 28-Jun-2024 18:31 | 167CALS.d_8107557 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 10/50/100 | 1 | 28-Jun-2024 18:33 | 168CALS.d_8107558 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 100/500/10K | 1 | 28-Jun-2024 18:36 | 169CALS.d_8107559 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 200/1000/20K | 1 | 28-Jun-2024 18:39 | 170CALS.d_8107560 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| ICV | 1 | 28-Jun-2024 18:49 | 172_ICV.d_8107562 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| LLCCV2 | 1 | 28-Jun-2024 18:54 | 174LCV2.d_8107564 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| LLCCV5 | 1 | 28-Jun-2024 18:56 | 175LCV5.d_8107565 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| ICCB 1 | 1 | 28-Jun-2024 18:59 | 176_ICB.d_8107566 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CCV 1 | 1 | 28-Jun-2024 19:40 | 179_CCV.d_8108620 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CCB 2 | 1 | 28-Jun-2024 19:43 | 180_CCB.d_8108621 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| MBLK-214140 | 1 | 28-Jun-2024 19:45 | 181SMPL.d_8108622 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| LCS-214140 | 1 | 28-Jun-2024 19:47 | 182SMPL.d_8108623 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| ZZZZZZSD | 5 | 28-Jun-2024 19:52 | 184SMPL.d_8108625 | AG AL AS BA BE CA CD CO CR CU K MG MN NA NI PB SB SE TL V ZN |
| ZZZZZZMS | 1 | 28-Jun-2024 19:55 | 185SMPL.d_8108626 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| ZZZZZZMSD | 1 | 28-Jun-2024 19:57 | 186SMPL.d_8108627 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| ZZZZZZPDS | 1 | 28-Jun-2024 20:00 | 187SMPL.d_8108628 | AG AL AS BA BE CA CD CO CR CU K MG MN NA NI PB SB SE TL V ZN |

**ALS Houston, US** Date: 26-Jul-24

## FORM 13 - ANALYSIS RUN LOG

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218
Start Date: 28-Jun-2024 End Date: 28-Jun-2024

Run ID:ICPMS07_470725
Instrument:ICPMS07
Method:

| Sample No. | D/F | Time | FileID | Analytes |
|---|---|---|---|---|
| CCV 2 | 1 | 28-Jun-2024 20:04 | 189_CCV.d_8108630 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CCB 3 | 1 | 28-Jun-2024 20:07 | 190_CCB.d_8108631 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CCV 3 | 1 | 28-Jun-2024 20:22 | 196_CCV.d_8108637 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CCB 4 | 1 | 28-Jun-2024 20:24 | 197_CCB.d_8108638 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CCV 4 | 1 | 28-Jun-2024 20:41 | 204_CCV.d_8108645 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CCB 5 | 1 | 28-Jun-2024 20:44 | 205_CCB.d_8108646 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 18WW18_061724 | 1 | 28-Jun-2024 20:46 | 206SMPL.d_8108647 | AG AL AS BA BE CA CD CO CR CU FE K MG NA NI PB SB SE TL V ZN |
| CO3_061724 | 1 | 28-Jun-2024 20:48 | 207SMPL.d_8108648 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 18CPTMW18_061724 | 1 | 28-Jun-2024 20:51 | 208SMPL.d_8108649 | AG AL AS BA BE CD CO CR CU FE K MG MN NI PB SB SE TL V ZN |
| MW19_061724 | 1 | 28-Jun-2024 20:53 | 209SMPL.d_8108650 | AG AL AS BA BE CA CD CO CR CU FE K MG NI PB SB SE TL V ZN |
| CCV 5 | 1 | 28-Jun-2024 20:58 | 211_CCV.d_8108652 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| CCB 6 | 1 | 28-Jun-2024 21:01 | 212_CCB.d_8108653 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |

**ALS Houston, US** Date: 26-Jul-24

## FORM 13 - ANALYSIS RUN LOG

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218
Start Date: 01-Jul-2024 End Date: 01-Jul-2024

Run ID:ICPMS07_470915
Instrument:ICPMS07
Method:

| Sample No. | D/F | Time | FileID | Analytes |
|---|---|---|---|---|
| ICPMS07_470915_Tune | 1 | 01-Jul-2024 00:00 | ICPMS07_470915_Tune_1 | |
| CAL BLK | 1 | 01-Jul-2024 10:13 | 010CALB.d_8110889 | CA FE MN NA |
| 2/10/200 | 1 | 01-Jul-2024 10:15 | 011CALS.d_8110890 | CA FE MN NA |
| 5/25/500 | 1 | 01-Jul-2024 10:18 | 012CALS.d_8110891 | CA FE MN NA |
| 10/50/100 | 1 | 01-Jul-2024 10:21 | 013CALS.d_8110892 | CA FE MN NA |
| 100/500/10K | 1 | 01-Jul-2024 10:23 | 014CALS.d_8110893 | CA FE MN NA |
| 200/1000/20K | 1 | 01-Jul-2024 10:27 | 015CALS.d_8110894 | CA FE MN NA |
| 100/500/10K | 1 | 01-Jul-2024 10:40 | 020CALS.d_8110899 | CA FE MN NA |
| ICV | 1 | 01-Jul-2024 10:48 | 022_ICV.d_8110901 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| LLICV2 | 1 | 01-Jul-2024 10:53 | 024LCV2.d_8110903 | CA FE MN NA |
| LLICV5 | 1 | 01-Jul-2024 10:55 | 025LCV5.d_8110904 | CA FE MN NA |
| ICB | 1 | 01-Jul-2024 10:57 | 026_ICB.d_8110905 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| ICSA | 1 | 01-Jul-2024 11:04 | 028ICSA.d_8110915 | CA FE MN NA |
| ICSAB | 1 | 01-Jul-2024 11:06 | 029ICSB.d_8110916 | CA FE MN NA |
| CCV 1 | 1 | 01-Jul-2024 11:25 | 034_CCV.d_8111146 | CA FE MN NA |
| CCB 1 | 1 | 01-Jul-2024 11:28 | 035_CCB.d_8111147 | CA FE MN NA |
| ZZZZZZSD | 50 | 01-Jul-2024 11:34 | 037SMPL.d_8111149 | FE |
| ZZZZZZPDS | 10 | 01-Jul-2024 11:36 | 038SMPL.d_8111150 | FE |
| 18WW18_061724 | 20 | 01-Jul-2024 11:46 | 042SMPL.d_8111154 | MN |
| 18CPTMW18_061724 | 20 | 01-Jul-2024 11:48 | 043SMPL.d_8111155 | CA NA |
| MW19_061724 | 50 | 01-Jul-2024 11:51 | 044SMPL.d_8111156 | MN NA |
| CCV 2 | 1 | 01-Jul-2024 11:56 | 046_CCV.d_8111187 | CA FE MN NA |
| CCB 2 | 1 | 01-Jul-2024 11:58 | 047_CCB.d_8111188 | CA FE MN NA |

**ALS Houston, US** Date: 26-Jul-24

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Run ID: HG04_470995
Instrument: HG04
Method: SW7470A

ICV Date: 01-Jul-2024 11:35 Seq: 8117491 ICV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 5.04 | 101 | 90-110 | |

CCV1 Date: 01-Jul-2024 11:45 Seq: 8117494 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 4.96 | 99 | 90-110 | |

CCV2 Date: 01-Jul-2024 12:10 Seq: 8117506 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 4.96 | 99 | 90-110 | |

CCV3 Date: 01-Jul-2024 12:31 Seq: 8117518 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 4.96 | 99 | 90-110 | |

CCV4 Date: 01-Jul-2024 13:00 Seq: 8117650 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 4.99 | 100 | 90-110 | |

CCV5 Date: 01-Jul-2024 13:30 Seq: 8117662 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 4.74 | 95 | 90-110 | |

CCV6 Date: 01-Jul-2024 13:51 Seq: 8117674 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 4.99 | 100 | 90-110 | |

CCV7 Date: 01-Jul-2024 14:15 Seq: 8117690 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 4.98 | 100 | 90-110 | |

CCV8 Date: 01-Jul-2024 14:40 Seq: 8117702 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 4.99 | 100 | 90-110 | |

CCV9 Date: 01-Jul-2024 14:56 Seq: 8117708 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 5.03 | 101 | 90-110 | |

CCV10 Date: 01-Jul-2024 16:35 Seq: 8117710 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 4.97 | 99 | 90-110 | |

CCV11 Date: 01-Jul-2024 17:01 Seq: 8117722 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 4.94 | 99 | 90-110 | |

CCV12 Date: 01-Jul-2024 17:23 Seq: 8117734 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 4.95 | 99 | 90-110 | |

CCV13 Date: 01-Jul-2024 17:46 Seq: 8117746 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 4.98 | 100 | 90-110 | |

**ALS Houston, US** Date: 26-Jul-24

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Run ID: HG04_470995
Instrument: HG04
Method: SW7470A

| CCV14 | Date: 01-Jul-2024 18:08 | Seq: 8117758 | CCV | Units: ug/L |
|---|---|---|---|---|

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 4.91 | 98 | 90-110 | |

| CCV15 | Date: 01-Jul-2024 18:29 | Seq: 8117765 | CCV | Units: ug/L |
|---|---|---|---|---|

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 4.83 | 97 | 90-110 | |

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

ICV Date: 28-Jun-2024 11:10 Seq: 8105706 ICV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 106.147 | 106 | 90-110 | |
| Antimony | 100 | 103.492 | 103 | 90-110 | |
| Arsenic | 100 | 105.762 | 106 | 90-110 | |
| Barium | 100 | 101.896 | 102 | 90-110 | |
| Beryllium | 100 | 106.066 | 106 | 90-110 | |
| Cadmium | 100 | 103.99 | 104 | 90-110 | |
| Calcium | 10000 | 10310.509 | 103 | 90-110 | |
| Chromium | 100 | 104.661 | 105 | 90-110 | |
| Cobalt | 100 | 105.784 | 106 | 90-110 | |
| Copper | 100 | 104.68 | 105 | 90-110 | |
| Iron | 10000 | 10287.363 | 103 | 90-110 | |
| Lead | 100 | 102.998 | 103 | 90-110 | |
| Magnesium | 10000 | 10307.876 | 103 | 90-110 | |
| Manganese | 100 | 104.926 | 105 | 90-110 | |
| Nickel | 100 | 105.465 | 105 | 90-110 | |
| Potassium | 10000 | 10258.83 | 103 | 90-110 | |
| Selenium | 100 | 106.554 | 107 | 90-110 | |
| Silver | 100 | 104.173 | 104 | 90-110 | |
| Sodium | 10000 | 10293.537 | 103 | 90-110 | |
| Thallium | 100 | 105.131 | 105 | 90-110 | |
| Vanadium | 100 | 105.553 | 106 | 90-110 | |
| Zinc | 100 | 104.98 | 105 | 90-110 | |

ICV Date: 28-Jun-2024 18:49 Seq: 8107562 ICV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 102.565 | 103 | 90-110 | |
| Antimony | 100 | 101.918 | 102 | 90-110 | |
| Arsenic | 100 | 101.924 | 102 | 90-110 | |
| Barium | 100 | 99.353 | 99 | 90-110 | |
| Beryllium | 100 | 102.861 | 103 | 90-110 | |
| Cadmium | 100 | 102.564 | 103 | 90-110 | |
| Calcium | 10000 | 10095.782 | 101 | 90-110 | |
| Chromium | 100 | 100.276 | 100 | 90-110 | |
| Cobalt | 100 | 102.238 | 102 | 90-110 | |
| Copper | 100 | 99.844 | 100 | 90-110 | |
| Iron | 10000 | 9976.103 | 100 | 90-110 | |
| Lead | 100 | 101.744 | 102 | 90-110 | |
| Magnesium | 10000 | 10053.926 | 101 | 90-110 | |
| Manganese | 100 | 101.295 | 101 | 90-110 | |
| Nickel | 100 | 102.335 | 102 | 90-110 | |
| Potassium | 10000 | 9993.594 | 100 | 90-110 | |
| Selenium | 100 | 101.73 | 102 | 90-110 | |
| Silver | 100 | 102.862 | 103 | 90-110 | |
| Sodium | 10000 | 9973.239 | 100 | 90-110 | |
| Thallium | 100 | 104.028 | 104 | 90-110 | |
| Vanadium | 100 | 101.037 | 101 | 90-110 | |
| Zinc | 100 | 101.037 | 101 | 90-110 | |

CCV1 Date: 28-Jun-2024 19:40 Seq: 8108620 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 101.76 | 102 | 90-110 | |
| Antimony | 100 | 102.532 | 103 | 90-110 | |
| Arsenic | 100 | 101.351 | 101 | 90-110 | |
| Barium | 100 | 98.331 | 98 | 90-110 | |
| Beryllium | 100 | 100.544 | 101 | 90-110 | |

**ALS Houston, US** Date: 26-Jul-24

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

CCV1 Date: 28-Jun-2024 19:40 Seq: 8108620 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Cadmium | 100 | 100.071 | 100 | 90-110 | |
| Calcium | 10000 | 10147.677 | 101 | 90-110 | |
| Chromium | 100 | 99.574 | 100 | 90-110 | |
| Cobalt | 100 | 101.133 | 101 | 90-110 | |
| Copper | 100 | 99.043 | 99 | 90-110 | |
| Iron | 10000 | 9972.965 | 100 | 90-110 | |
| Lead | 100 | 98.565 | 99 | 90-110 | |
| Magnesium | 10000 | 10151.568 | 102 | 90-110 | |
| Manganese | 100 | 100.107 | 100 | 90-110 | |
| Nickel | 100 | 100.759 | 101 | 90-110 | |
| Potassium | 10000 | 10070.265 | 101 | 90-110 | |
| Selenium | 100 | 101.973 | 102 | 90-110 | |
| Silver | 100 | 100.861 | 101 | 90-110 | |
| Sodium | 10000 | 9997.113 | 100 | 90-110 | |
| Thallium | 100 | 98.251 | 98 | 90-110 | |
| Vanadium | 100 | 100.569 | 101 | 90-110 | |
| Zinc | 100 | 101.555 | 102 | 90-110 | |

CCV2 Date: 28-Jun-2024 20:04 Seq: 8108630 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 100.291 | 100 | 90-110 | |
| Antimony | 100 | 103.949 | 104 | 90-110 | |
| Arsenic | 100 | 102.172 | 102 | 90-110 | |
| Barium | 100 | 99.787 | 100 | 90-110 | |
| Beryllium | 100 | 98.121 | 98 | 90-110 | |
| Cadmium | 100 | 102.094 | 102 | 90-110 | |
| Calcium | 10000 | 10145.376 | 101 | 90-110 | |
| Chromium | 100 | 100.485 | 100 | 90-110 | |
| Cobalt | 100 | 102.543 | 103 | 90-110 | |
| Copper | 100 | 100.233 | 100 | 90-110 | |
| Iron | 10000 | 10036.94 | 100 | 90-110 | |
| Lead | 100 | 101.025 | 101 | 90-110 | |
| Magnesium | 10000 | 10075.223 | 101 | 90-110 | |
| Manganese | 100 | 101.094 | 101 | 90-110 | |
| Nickel | 100 | 102.756 | 103 | 90-110 | |
| Potassium | 10000 | 10050.889 | 101 | 90-110 | |
| Selenium | 100 | 102.148 | 102 | 90-110 | |
| Silver | 100 | 102.082 | 102 | 90-110 | |
| Sodium | 10000 | 9990.018 | 100 | 90-110 | |
| Thallium | 100 | 100.082 | 100 | 90-110 | |
| Vanadium | 100 | 101.863 | 102 | 90-110 | |
| Zinc | 100 | 101.653 | 102 | 90-110 | |

CCV3 Date: 28-Jun-2024 20:22 Seq: 8108637 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 102.671 | 103 | 90-110 | |
| Antimony | 100 | 104.758 | 105 | 90-110 | |
| Arsenic | 100 | 103.704 | 104 | 90-110 | |
| Barium | 100 | 100.222 | 100 | 90-110 | |
| Beryllium | 100 | 96.896 | 97 | 90-110 | |
| Cadmium | 100 | 102.233 | 102 | 90-110 | |
| Calcium | 10000 | 10378.361 | 104 | 90-110 | |
| Chromium | 100 | 101.73 | 102 | 90-110 | |
| Cobalt | 100 | 104.175 | 104 | 90-110 | |
| Copper | 100 | 101.801 | 102 | 90-110 | |

**ALS Houston, US** Date: 26-Jul-24

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

CCV3 Date: 28-Jun-2024 20:22 Seq: 8108637 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Iron | 10000 | 10251.8 | 103 | 90-110 | |
| Lead | 100 | 102.134 | 102 | 90-110 | |
| Magnesium | 10000 | 10202.055 | 102 | 90-110 | |
| Manganese | 100 | 102.624 | 103 | 90-110 | |
| Nickel | 100 | 104.333 | 104 | 90-110 | |
| Potassium | 10000 | 10309.927 | 103 | 90-110 | |
| Selenium | 100 | 104.535 | 105 | 90-110 | |
| Silver | 100 | 103.306 | 103 | 90-110 | |
| Sodium | 10000 | 10237.128 | 102 | 90-110 | |
| Thallium | 100 | 101.03 | 101 | 90-110 | |
| Vanadium | 100 | 102.153 | 102 | 90-110 | |
| Zinc | 100 | 102.566 | 103 | 90-110 | |

CCV4 Date: 28-Jun-2024 20:41 Seq: 8108645 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 103.742 | 104 | 90-110 | |
| Antimony | 100 | 107.489 | 107 | 90-110 | |
| Arsenic | 100 | 103.477 | 103 | 90-110 | |
| Barium | 100 | 100.333 | 100 | 90-110 | |
| Beryllium | 100 | 96.763 | 97 | 90-110 | |
| Cadmium | 100 | 101.121 | 101 | 90-110 | |
| Calcium | 10000 | 10240.366 | 102 | 90-110 | |
| Chromium | 100 | 101.874 | 102 | 90-110 | |
| Cobalt | 100 | 104.325 | 104 | 90-110 | |
| Copper | 100 | 101.666 | 102 | 90-110 | |
| Iron | 10000 | 10263.082 | 103 | 90-110 | |
| Lead | 100 | 101.671 | 102 | 90-110 | |
| Magnesium | 10000 | 10185.584 | 102 | 90-110 | |
| Manganese | 100 | 102.276 | 102 | 90-110 | |
| Nickel | 100 | 104.598 | 105 | 90-110 | |
| Potassium | 10000 | 10179.012 | 102 | 90-110 | |
| Selenium | 100 | 102.09 | 102 | 90-110 | |
| Silver | 100 | 102.529 | 103 | 90-110 | |
| Sodium | 10000 | 10162.204 | 102 | 90-110 | |
| Thallium | 100 | 101.55 | 102 | 90-110 | |
| Vanadium | 100 | 101.731 | 102 | 90-110 | |
| Zinc | 100 | 103.144 | 103 | 90-110 | |

CCV5 Date: 28-Jun-2024 20:58 Seq: 8108652 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 103.303 | 103 | 90-110 | |
| Antimony | 100 | 106.987 | 107 | 90-110 | |
| Arsenic | 100 | 104.204 | 104 | 90-110 | |
| Barium | 100 | 101.544 | 102 | 90-110 | |
| Beryllium | 100 | 94.898 | 95 | 90-110 | |
| Cadmium | 100 | 102.309 | 102 | 90-110 | |
| Calcium | 10000 | 10394.613 | 104 | 90-110 | |
| Chromium | 100 | 102.034 | 102 | 90-110 | |
| Cobalt | 100 | 104.648 | 105 | 90-110 | |
| Copper | 100 | 101.887 | 102 | 90-110 | |
| Iron | 10000 | 10286.069 | 103 | 90-110 | |
| Lead | 100 | 102.899 | 103 | 90-110 | |
| Magnesium | 10000 | 10245.077 | 102 | 90-110 | |
| Manganese | 100 | 101.488 | 101 | 90-110 | |
| Nickel | 100 | 104.563 | 105 | 90-110 | |

**ALS Houston, US** Date: 26-Jul-24

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

CCV5 Date: 28-Jun-2024 20:58 Seq: 8108652 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Potassium | 10000 | 10375.91 | 104 | 90-110 | |
| Selenium | 100 | 104.274 | 104 | 90-110 | |
| Silver | 100 | 105.233 | 105 | 90-110 | |
| Sodium | 10000 | 10319.392 | 103 | 90-110 | |
| Thallium | 100 | 102.238 | 102 | 90-110 | |
| Vanadium | 100 | 102.869 | 103 | 90-110 | |
| Zinc | 100 | 103.165 | 103 | 90-110 | |

**ALS Houston, US** Date: 26-Jul-24

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Run ID: ICPMS07_470915
Instrument: ICPMS07
Method: SW6020A

| ICV | Date: 01-Jul-2024 10:48 | | Seq: 8110901 | ICV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Calcium | 10000 | 9898.566 | 99 | 90-110 | |
| Iron | 10000 | 9941.715 | 99 | 90-110 | |
| Manganese | 100 | 100.981 | 101 | 90-110 | |
| Sodium | 10000 | 10150.891 | 102 | 90-110 | |

| CCV1 | Date: 01-Jul-2024 11:25 | | Seq: 8111146 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Calcium | 10000 | 10113.376 | 101 | 90-110 | |
| Iron | 10000 | 10121.723 | 101 | 90-110 | |
| Manganese | 100 | 102.49 | 102 | 90-110 | |
| Sodium | 10000 | 10274.87 | 103 | 90-110 | |

| CCV2 | Date: 01-Jul-2024 11:56 | | Seq: 8111187 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Calcium | 10000 | 10019.72 | 100 | 90-110 | |
| Iron | 10000 | 10003.9 | 100 | 90-110 | |
| Manganese | 100 | 101.68 | 102 | 90-110 | |
| Sodium | 10000 | 10227.837 | 102 | 90-110 | |

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Run ID: HG04_470995
Instrument: HG04
Method: SW7470A

| | | | | | |
|---|---|---|---|---|---|
| ICB | Date: 01-Jul-2024 11:37 | | Seq: 8117492 | ICB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB1 | Date: 01-Jul-2024 11:46 | | Seq: 8117495 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | -0.033 | 0.03 | 0.2 | J | |
| CCB2 | Date: 01-Jul-2024 12:12 | | Seq: 8117507 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB3 | Date: 01-Jul-2024 12:33 | | Seq: 8117519 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB4 | Date: 01-Jul-2024 13:02 | | Seq: 8117651 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB5 | Date: 01-Jul-2024 13:32 | | Seq: 8117663 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB6 | Date: 01-Jul-2024 13:53 | | Seq: 8117675 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB7 | Date: 01-Jul-2024 14:17 | | Seq: 8117691 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB8 | Date: 01-Jul-2024 14:41 | | Seq: 8117703 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB9 | Date: 01-Jul-2024 14:58 | | Seq: 8117709 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB10 | Date: 01-Jul-2024 16:36 | | Seq: 8117711 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB11 | Date: 01-Jul-2024 17:03 | | Seq: 8117723 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB12 | Date: 01-Jul-2024 17:24 | | Seq: 8117735 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| MBLK-214374 | Date: 01-Jul-2024 17:38 | | Seq: 8117742 | MBLK | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |
| CCB13 | Date: 01-Jul-2024 17:48 | | Seq: 8117747 | CCB | Units: ug/L |
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

**ALS Houston, US** Date: 26-Jul-24

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Run ID: HG04_470995
Instrument: HG04
Method: SW7470A

| CCB14 | Date: 01-Jul-2024 18:10 | | Seq: 8117759 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB15 | Date: 01-Jul-2024 18:31 | | Seq: 8117766 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

| ICB | Date: 28-Jun-2024 11:20 | | Seq: 8105710 | ICB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Aluminum | 10 | 1.8 | 10 | U | |
| Antimony | 5 | 0.4 | 5 | U | |
| Arsenic | 5 | 0.4 | 5 | U | |
| Barium | 5 | 1.9 | 5 | U | |
| Beryllium | 2 | 0.2 | 2 | U | |
| Cadmium | 2 | 0.2 | 2 | U | |
| Calcium | 500 | 34 | 500 | U | |
| Chromium | 5 | 0.4 | 5 | U | |
| Cobalt | 5 | 0.1 | 5 | U | |
| Copper | 5 | 1 | 5 | U | |
| Iron | 200 | 12 | 200 | U | |
| Lead | 5 | 0.6 | 5 | U | |
| Magnesium | 200 | 10 | 200 | U | |
| Manganese | 5 | 0.7 | 5 | U | |
| Nickel | 5 | 0.6 | 5 | U | |
| Potassium | 200 | 18 | 200 | U | |
| Selenium | 5 | 1.1 | 5 | U | |
| Silver | 5 | 0.2 | 5 | U | |
| Sodium | 200 | 14 | 200 | U | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | 5 | 0.6 | 5 | U | |
| Zinc | 5 | 2 | 5 | U | |

| ICCB1 | Date: 28-Jun-2024 18:59 | | Seq: 8107566 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Aluminum | 2.111 | 1.8 | 10 | J | |
| Antimony | 5 | 0.4 | 5 | U | |
| Arsenic | 5 | 0.4 | 5 | U | |
| Barium | 5 | 1.9 | 5 | U | |
| Beryllium | 2 | 0.2 | 2 | U | |
| Cadmium | 2 | 0.2 | 2 | U | |
| Calcium | 500 | 34 | 500 | U | |
| Chromium | 5 | 0.4 | 5 | U | |
| Cobalt | 5 | 0.1 | 5 | U | |
| Copper | 5 | 1 | 5 | U | |
| Iron | 200 | 12 | 200 | U | |
| Lead | 5 | 0.6 | 5 | U | |
| Magnesium | 200 | 10 | 200 | U | |
| Manganese | 5 | 0.7 | 5 | U | |
| Nickel | 5 | 0.6 | 5 | U | |
| Potassium | 200 | 18 | 200 | U | |
| Selenium | 5 | 1.1 | 5 | U | |
| Silver | 5 | 0.2 | 5 | U | |
| Sodium | 200 | 14 | 200 | U | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | 5 | 0.6 | 5 | U | |
| Zinc | 5 | 2 | 5 | U | |

| CCB2 | Date: 28-Jun-2024 19:43 | | Seq: 8108621 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Aluminum | 10 | 1.8 | 10 | U | |
| Antimony | 2 | 0.4 | 2 | U | |
| Arsenic | 2 | 0.4 | 2 | U | |
| Barium | 4 | 1.9 | 4 | U | |
| Beryllium | 2 | 0.2 | 2 | U | |

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

| CCB2 | Date: 28-Jun-2024 19:43 | | Seq: 8108621 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Cadmium | 2 | 0.2 | 2 | U | |
| Calcium | 500 | 34 | 500 | U | |
| Chromium | 4 | 0.4 | 4 | U | |
| Cobalt | 5 | 0.2 | 5 | U | |
| Copper | 2 | 1 | 2 | U | |
| Iron | 200 | 12 | 200 | U | |
| Lead | 2 | 0.6 | 2 | U | |
| Magnesium | 200 | 10 | 200 | U | |
| Manganese | 5 | 0.7 | 5 | U | |
| Nickel | 2 | 0.6 | 2 | U | |
| Potassium | 200 | 18 | 200 | U | |
| Selenium | 2 | 1.1 | 2 | U | |
| Silver | 2 | 0.2 | 2 | U | |
| Sodium | 200 | 14 | 200 | U | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | -0.64 | 0.6 | 5 | J | |
| Zinc | 4 | 2 | 4 | U | |

| MBLK-214140 | Date: 28-Jun-2024 19:45 | | Seq: 8108622 | MBLK | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Aluminum | 10 | 1.8 | 10 | U | |
| Antimony | 5 | 0.4 | 5 | U | |
| Arsenic | 5 | 0.4 | 5 | U | |
| Barium | 5 | 1.9 | 5 | U | |
| Beryllium | 2 | 0.2 | 2 | U | |
| Cadmium | 2 | 0.2 | 2 | U | |
| Calcium | 500 | 34 | 500 | U | |
| Chromium | 5 | 0.4 | 5 | U | |
| Cobalt | 5 | 0.1 | 5 | U | |
| Copper | 5 | 1 | 5 | U | |
| Iron | 200 | 12 | 200 | U | |
| Lead | 5 | 0.6 | 5 | U | |
| Magnesium | 200 | 10 | 200 | U | |
| Manganese | 5 | 0.7 | 5 | U | |
| Nickel | 5 | 0.6 | 5 | U | |
| Potassium | 200 | 18 | 200 | U | |
| Selenium | 5 | 1.1 | 5 | U | |
| Silver | 5 | 0.2 | 5 | U | |
| Sodium | 200 | 14 | 200 | U | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | 5 | 0.6 | 5 | U | |
| Zinc | 5 | 2 | 5 | U | |

| CCB3 | Date: 28-Jun-2024 20:07 | | Seq: 8108631 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Aluminum | 10 | 1.8 | 10 | U | |
| Antimony | 2 | 0.4 | 2 | U | |
| Arsenic | 2 | 0.4 | 2 | U | |
| Barium | 4 | 1.9 | 4 | U | |
| Beryllium | 2 | 0.2 | 2 | U | |
| Cadmium | 2 | 0.2 | 2 | U | |
| Calcium | 500 | 34 | 500 | U | |
| Chromium | 4 | 0.4 | 4 | U | |
| Cobalt | 5 | 0.2 | 5 | U | |
| Copper | 2 | 1 | 2 | U | |

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

| CCB3 | Date: 28-Jun-2024 20:07 | | Seq: 8108631 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Iron | 200 | 12 | 200 | U | |
| Lead | 2 | 0.6 | 2 | U | |
| Magnesium | 200 | 10 | 200 | U | |
| Manganese | 5 | 0.7 | 5 | U | |
| Nickel | 2 | 0.6 | 2 | U | |
| Potassium | 200 | 18 | 200 | U | |
| Selenium | 2 | 1.1 | 2 | U | |
| Silver | 2 | 0.2 | 2 | U | |
| Sodium | 25.12 | 14 | 200 | J | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | -0.681 | 0.6 | 5 | J | |
| Zinc | 4 | 2 | 4 | U | |

| CCB4 | Date: 28-Jun-2024 20:24 | | Seq: 8108638 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Aluminum | 10 | 1.8 | 10 | U | |
| Antimony | 2 | 0.4 | 2 | U | |
| Arsenic | 2 | 0.4 | 2 | U | |
| Barium | 4 | 1.9 | 4 | U | |
| Beryllium | 2 | 0.2 | 2 | U | |
| Cadmium | 2 | 0.2 | 2 | U | |
| Calcium | 500 | 34 | 500 | U | |
| Chromium | 4 | 0.4 | 4 | U | |
| Cobalt | 5 | 0.2 | 5 | U | |
| Copper | 2 | 1 | 2 | U | |
| Iron | 200 | 12 | 200 | U | |
| Lead | 2 | 0.6 | 2 | U | |
| Magnesium | 200 | 10 | 200 | U | |
| Manganese | 5 | 0.7 | 5 | U | |
| Nickel | 2 | 0.6 | 2 | U | |
| Potassium | 200 | 18 | 200 | U | |
| Selenium | 2 | 1.1 | 2 | U | |
| Silver | 2 | 0.2 | 2 | U | |
| Sodium | 98.68 | 14 | 200 | J | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | -0.722 | 0.6 | 5 | J | |
| Zinc | 4 | 2 | 4 | U | |

| CCB5 | Date: 28-Jun-2024 20:44 | | Seq: 8108646 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Aluminum | 10 | 1.8 | 10 | U | |
| Antimony | 2 | 0.4 | 2 | U | |
| Arsenic | 2 | 0.4 | 2 | U | |
| Barium | 4 | 1.9 | 4 | U | |
| Beryllium | 2 | 0.2 | 2 | U | |
| Cadmium | 2 | 0.2 | 2 | U | |
| Calcium | 500 | 34 | 500 | U | |
| Chromium | 4 | 0.4 | 4 | U | |
| Cobalt | 5 | 0.2 | 5 | U | |
| Copper | 2 | 1 | 2 | U | |
| Iron | 200 | 12 | 200 | U | |
| Lead | 2 | 0.6 | 2 | U | |
| Magnesium | 200 | 10 | 200 | U | |
| Manganese | 5 | 0.7 | 5 | U | |
| Nickel | 2 | 0.6 | 2 | U | |

**ALS Houston, US**

Date: 26-Jul-24

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

| CCB5 | Date: 28-Jun-2024 20:44 | | Seq: 8108646 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Potassium | 200 | 18 | 200 | U | |
| Selenium | 2 | 1.1 | 2 | U | |
| Silver | 2 | 0.2 | 2 | U | |
| Sodium | 80.95 | 14 | 200 | J | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | -0.724 | 0.6 | 5 | J | |
| Zinc | 4 | 2 | 4 | U | |

| CCB6 | Date: 28-Jun-2024 21:01 | | Seq: 8108653 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Aluminum | 10 | 1.8 | 10 | U | |
| Antimony | 2 | 0.4 | 2 | U | |
| Arsenic | 2 | 0.4 | 2 | U | |
| Barium | 4 | 1.9 | 4 | U | |
| Beryllium | 2 | 0.2 | 2 | U | |
| Cadmium | 2 | 0.2 | 2 | U | |
| Calcium | 500 | 34 | 500 | U | |
| Chromium | 4 | 0.4 | 4 | U | |
| Cobalt | 5 | 0.2 | 5 | U | |
| Copper | 2 | 1 | 2 | U | |
| Iron | 200 | 12 | 200 | U | |
| Lead | 2 | 0.6 | 2 | U | |
| Magnesium | 200 | 10 | 200 | U | |
| Manganese | 5 | 0.7 | 5 | U | |
| Nickel | 2 | 0.6 | 2 | U | |
| Potassium | 200 | 18 | 200 | U | |
| Selenium | 2 | 1.1 | 2 | U | |
| Silver | 2 | 0.2 | 2 | U | |
| Sodium | 146.7 | 14 | 200 | J | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | -0.741 | 0.6 | 5 | J | |
| Zinc | 4 | 2 | 4 | U | |

**ALS Houston, US** Date: 26-Jul-24

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Run ID: ICPMS07_470915
Instrument: ICPMS07
Method: SW6020A

| ICB | Date: 01-Jul-2024 10:57 | | Seq: 8110905 | ICB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Calcium | 500 | 34 | 500 | U | |
| Iron | 200 | 12 | 200 | U | |
| Manganese | 5 | 0.7 | 5 | U | |
| Sodium | -31.61 | 14 | 200 | J | |

| CCB1 | Date: 01-Jul-2024 11:28 | | Seq: 8111147 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Calcium | 500 | 34 | 500 | U | |
| Iron | 200 | 12 | 200 | U | |
| Manganese | 5 | 0.7 | 5 | U | |
| Sodium | -40.9 | 14 | 200 | J | |

| CCB2 | Date: 01-Jul-2024 11:58 | | Seq: 8111188 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Calcium | 500 | 34 | 500 | U | |
| Iron | 200 | 12 | 200 | U | |
| Manganese | 5 | 0.7 | 5 | U | |
| Sodium | -46.66 | 14 | 200 | J | |

**ALS Houston, US** Date: 26-Jul-24

## Form 4 - ICP Interference Check Sample

**Client:** Bhate Environmental Associates, Inc. Run ID:ICPMS07_470725
**Project:** LHAAP Site 18 24 Instrument:ICPMS07
**WorkOrder:** HS24061218 Method:SW6020A

| ICSA | Date: 28-Jun-2024 11:25 | Seq: 8105712 | ICSA | Units: ug/L |
|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | |
| Aluminum | 100000 | 106800 | 107 | |
| Antimony | | 0.113 | 0 | |
| Arsenic | | 0.38 | 0 | |
| Barium | | 0.555 | 0 | |
| Beryllium | | 0.031 | 0 | |
| Cadmium | | 0.702 | 0 | |
| Calcium | 100000 | 100100 | 100 | |
| Chromium | | 0.867 | 0 | |
| Cobalt | | 1.061 | 0 | |
| Copper | | 0.824 | 0 | |
| Iron | 100000 | 106100 | 106 | |
| Lead | | 0.933 | 0 | |
| Magnesium | 100000 | 106100 | 106 | |
| Manganese | | 1.915 | 0 | |
| Nickel | | 1.184 | 0 | |
| Potassium | 100000 | 105900 | 106 | |
| Selenium | | 0 | 0 | |
| Silver | | 0.021 | 0 | |
| Sodium | 100000 | 107400 | 107 | |
| Thallium | | 0.004 | 0 | |
| Vanadium | | -0.194 | 0 | |
| Zinc | | 3.084 | 0 | |

| ICSAB | Date: 28-Jun-2024 11:27 | Seq: 8105713 | ICSAB | Units: ug/L |
|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | |
| Aluminum | 100500 | 104700 | 104 | |
| Antimony | 100 | 105.3 | 105 | |
| Arsenic | 100 | 109.2 | 109 | |
| Barium | 100 | 106.7 | 107 | |
| Beryllium | 100 | 92.48 | 92.5 | |
| Cadmium | 100 | 105.3 | 105 | |
| Calcium | 110000 | 108200 | 98.3 | |
| Chromium | 100 | 104.2 | 104 | |
| Cobalt | 100 | 102.2 | 102 | |
| Copper | 100 | 100.4 | 100 | |
| Iron | 110000 | 113300 | 103 | |
| Lead | 100 | 108.1 | 108 | |
| Magnesium | 110000 | 113600 | 103 | |
| Manganese | 100 | 106 | 106 | |
| Nickel | 100 | 101.8 | 102 | |
| Potassium | 110000 | 114300 | 104 | |
| Selenium | 100 | 109.8 | 110 | |
| Silver | 100 | 103.7 | 104 | |
| Sodium | 110000 | 115000 | 105 | |
| Thallium | 100 | 93.56 | 93.6 | |
| Vanadium | 100 | 107.1 | 107 | |
| Zinc | 100 | 106.4 | 106 | |

**ALS Houston, US** Date: 26-Jul-24

## Form 4 - ICP Interference Check Sample

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Run ID: ICPMS07_470915
Instrument: ICPMS07
Method: SW6020A

| ICSA | Date: 01-Jul-2024 11:04 | Seq: 8110915 | ICSA | Units: ug/L |
|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | |
| Calcium | 100000 | 106700 | 107 | |
| Iron | 100000 | 103600 | 104 | |
| Manganese | | 1.873 | 0 | |
| Sodium | 100000 | 108600 | 109 | |

| ICSAB | Date: 01-Jul-2024 11:06 | Seq: 8110916 | ICSAB | Units: ug/L |
|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | |
| Calcium | 110000 | 114000 | 104 | |
| Iron | 110000 | 110800 | 101 | |
| Manganese | 100 | 104.1 | 104 | |
| Sodium | 110000 | 116700 | 106 | |

**ALS Houston, US** Date: 26-Jul-24

## Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Date Analyzed: 01-Jul-2024 18:15
Date Extracted: 01-Jul-2024 09:30
Units: ug/L

Matrix Spike: HS24061313-01MS
Client Sample ID:

Analysis Method: SW7470A

| Analyte | Sample Result | MS Result | Spike Amount | % Rec | MSD Result | Spike Amount | % Rec | % Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.2000 | 4.630 | 5.000 | 92.6 | 4.440 | 5.000 | 88.8 | 82-119 | 4.19 | 20 |

**ALS Houston, US** Date: 26-Jul-24

## Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Date Analyzed: 28-Jun-2024 19:57
Date Extracted: 26-Jun-2024 13:00
Units: ug/L

Matrix Spike: HS24061196-10MS
Client Sample ID:

Analysis Method: SW6020A

| Analyte | Sample Result | MS Result | Spike Amount | % Rec | MSD Result | Spike Amount | % Rec | % Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 13.21 | 104.7 | 100.0 | 91.5 | 109.6 | 100.0 | 96.4 | 84-117 | 4.58 | 20 |
| Antimony | 5.000 | 46.75 | 50.00 | 93.2 | 48.33 | 50.00 | 96.4 | 85-117 | 3.33 | 20 |
| Arsenic | 0.6330 | 46.48 | 50.00 | 91.7 | 47.32 | 50.00 | 93.4 | 84-116 | 1.80 | 20 |
| Barium | 641.5 | 668.4 | 50.00 | 53.8 | 667.2 | 50.00 | 51.4 | 86-114 | 0.179 | 20 |
| Beryllium | 2.000 | 41.85 | 50.00 | 83.6 | 42.83 | 50.00 | 85.6 | 83-121 | 2.33 | 20 |
| Cadmium | 2.000 | 45.57 | 50.00 | 90.9 | 45.97 | 50.00 | 91.7 | 87-115 | 0.870 | 20 |
| Calcium | 23670 | 27420 | 5000 | 75.0 | 28260 | 5000 | 91.9 | 87-118 | 3.02 | 20 |
| Chromium | 0.7100 | 44.54 | 50.00 | 87.7 | 46.51 | 50.00 | 91.6 | 85-116 | 4.33 | 20 |
| Cobalt | 1.239 | 45.18 | 50.00 | 87.9 | 47.00 | 50.00 | 91.5 | 86-115 | 3.96 | 20 |
| Copper | 5.000 | 46.54 | 50.00 | 91.6 | 48.68 | 50.00 | 95.9 | 85-118 | 4.51 | 20 |
| Iron | 31810 | 34790 | 5000 | 59.5 | 35890 | 5000 | 81.6 | 87-118 | 3.13 | 20 |
| Lead | 5.000 | 44.93 | 50.00 | 89.5 | 44.90 | 50.00 | 89.5 | 88-115 | 0.0534 | 20 |
| Magnesium | 8035 | 12180 | 5000 | 82.9 | 12660 | 5000 | 92.5 | 83-118 | 3.86 | 20 |
| Manganese | 508.6 | 527.0 | 50.00 | 36.8 | 543.4 | 50.00 | 69.6 | 87-115 | 3.07 | 20 |
| Nickel | 2.044 | 46.09 | 50.00 | 88.1 | 48.18 | 50.00 | 92.3 | 85-117 | 4.44 | 20 |
| Potassium | 2622 | 7074 | 5000 | 89.0 | 7325 | 5000 | 94.1 | 87-115 | 3.50 | 20 |
| Selenium | 5.000 | 45.54 | 50.00 | 90.6 | 47.14 | 50.00 | 93.8 | 80-120 | 3.45 | 20 |
| Silver | 5.000 | 44.96 | 50.00 | 89.9 | 44.93 | 50.00 | 89.8 | 85-116 | 0.0667 | 20 |
| Sodium | 138300 | 136200 | 5000 | -42.3 | 141900 | 5000 | 71.2 | 85-117 | 4.08 | 20 |
| Thallium | 2.000 | 40.21 | 50.00 | 80.3 | 40.49 | 50.00 | 80.9 | 82-116 | 0.694 | 20 |
| Vanadium | 5.000 | 44.50 | 50.00 | 89.9 | 45.84 | 50.00 | 92.6 | 86-115 | 2.98 | 20 |
| Zinc | 15.08 | 57.82 | 50.00 | 85.5 | 58.96 | 50.00 | 87.8 | 83-119 | 1.95 | 20 |

**ALS Houston, US** Date: 26-Jul-24

## Form 5B - Post Digest Sample Recovery

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Date Analyzed: 28-Jun-2024 20:00
Date Extracted: 26-Jun-2024 13:00
Units: ug/L

Lab Sample ID: HS24061196-10PDS
Client Sample ID:

Analysis Method: SW6020A

| Analyte | Sample Result | PDS Result | Spike Amount | % Rec | % Rec Limits |
|---|---|---|---|---|---|
| Aluminum | 13.21 | 102.9 | 100 | 90 | 80-120 |
| Antimony | 0 | 91.8 | 100 | 92 | 80-120 |
| Arsenic | 0.633 | 93 | 100 | 92 | 80-120 |
| Barium | 641.5 | 701.7 | 100 | 60 | 80-120 |
| Beryllium | 0 | 84.28 | 100 | 84 | 80-120 |
| Cadmium | 0 | 90.34 | 100 | 90 | 80-120 |
| Calcium | 23670 | 31700 | 10000 | 80 | 80-120 |
| Chromium | 0.71 | 89.9 | 100 | 89 | 80-120 |
| Cobalt | 1.239 | 91.92 | 100 | 91 | 80-120 |
| Copper | 0 | 89.52 | 100 | 89 | 80-120 |
| Lead | 0 | 89.67 | 100 | 90 | 80-120 |
| Magnesium | 8035 | 16900 | 10000 | 89 | 80-120 |
| Manganese | 508.6 | 577.1 | 100 | 69 | 80-120 |
| Nickel | 2.044 | 92.26 | 100 | 90 | 80-120 |
| Potassium | 2622 | 11800 | 10000 | 92 | 80-120 |
| Selenium | 0 | 92.38 | 100 | 92 | 80-120 |
| Silver | 0 | 92.55 | 100 | 93 | 80-120 |
| Sodium | 138300 | 141900 | 10000 | 35 | 80-120 |
| Thallium | 0 | 92.36 | 100 | 92 | 80-120 |
| Vanadium | 0 | 90.37 | 100 | 91 | 80-120 |
| Zinc | 15.08 | 101.8 | 100 | 87 | 80-120 |

**ALS Houston, US** Date: 26-Jul-24

## Form 5B - Post Digest Sample Recovery

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Date Analyzed: 01-Jul-2024 11:36
Date Extracted: 26-Jun-2024 13:00
Units: ug/L

Lab Sample ID: HS24061196-10PDS
Client Sample ID:

Analysis Method: SW6020A

| Analyte | Sample Result | PDS Result | Spike Amount | % Rec | % Rec Limits |
|---|---|---|---|---|---|
| Iron | 32060 | 131800 | 100000 | 100 | 80-120 |

**ALS Houston, US** Date: 26-Jul-24

**Form 7 - Laboratory Control Sample**

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Date Analyzed: 01-Jul-2024 17:39
Date Extracted: 01-Jul-2024 09:30
Units: ug/L

Lab Sample ID: LCS-214374 Analysis Method: SW7470A

| Analyte | Spike Amount | LCS Result | % Rec | % Rec Limits |
|---|---|---|---|---|
| Mercury | 5 | 4.6 | 92 | 82-119 |

**ALS Houston, US** Date: 26-Jul-24

**Form 7 - Laboratory Control Sample**

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Date Analyzed: 28-Jun-2024 19:47
Date Extracted: 26-Jun-2024 13:00
Units: ug/L

Lab Sample ID: LCS-214140 Analysis Method: SW6020A

| Analyte | Spike Amount | LCS Result | % Rec | % Rec Limits |
|---|---|---|---|---|
| Aluminum | 100 | 105.6 | 106 | 84-117 |
| Antimony | 50 | 49.6 | 99 | 85-117 |
| Arsenic | 50 | 47.77 | 96 | 84-116 |
| Barium | 50 | 46.54 | 93 | 86-114 |
| Beryllium | 50 | 46.56 | 93 | 83-121 |
| Cadmium | 50 | 46.92 | 94 | 87-115 |
| Calcium | 5000 | 4991 | 100 | 87-118 |
| Chromium | 50 | 47.45 | 95 | 85-116 |
| Cobalt | 50 | 47.58 | 95 | 86-115 |
| Copper | 50 | 47.9 | 96 | 85-118 |
| Iron | 5000 | 4866 | 97 | 87-118 |
| Lead | 50 | 45.89 | 92 | 88-115 |
| Magnesium | 5000 | 4930 | 99 | 83-118 |
| Manganese | 50 | 48.27 | 97 | 87-115 |
| Nickel | 50 | 48.13 | 96 | 85-117 |
| Potassium | 5000 | 4876 | 98 | 87-115 |
| Selenium | 50 | 48.2 | 96 | 80-120 |
| Silver | 50 | 47.91 | 96 | 85-116 |
| Sodium | 5000 | 4861 | 97 | 85-117 |
| Thallium | 50 | 42.03 | 84 | 82-116 |
| Vanadium | 50 | 47.02 | 94 | 86-115 |
| Zinc | 50 | 47.91 | 96 | 83-119 |

**ALS Houston, US** Date: 26-Jul-24

## Form 8 - ICP Serial Dilutions

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Date Analyzed: 28-Jun-2024 19:52
Date Extracted: 26-Jun-2024 13:00
Units: ug/L

Lab Sample ID: HS24061196-10SD
Client Sample ID:

Analysis Method: SW6020A

| Analyte | Sample Result | C | SD Result | C | RPD | Q |
|---|---|---|---|---|---|---|
| Aluminum | 13.21 | | 0 | U | 0 | |
| Antimony | 0 | U | 0 | U | 0 | |
| Arsenic | 0.633 | J | 0 | U | 0 | |
| Barium | 641.5 | | 620.8 | | 3 | |
| Beryllium | 0 | U | 0 | U | 0 | |
| Cadmium | 0 | U | 0 | U | 0 | |
| Calcium | 23670 | | 23170 | | 2 | |
| Chromium | 0.71 | J | 0 | U | 0 | |
| Cobalt | 1.239 | J | 1.33 | J | 7 | |
| Copper | 0 | U | 0 | U | 0 | |
| Lead | 0 | U | 0 | U | 0 | |
| Magnesium | 8035 | | 7959 | | 1 | |
| Manganese | 508.6 | | 500.8 | | 2 | |
| Nickel | 2.044 | J | 0 | U | 0 | |
| Potassium | 2622 | | 2513 | | 4 | |
| Selenium | 0 | U | 0 | U | 0 | |
| Silver | 0 | U | 0 | U | 0 | |
| Sodium | 138300 | | 137700 | | 0 | |
| Thallium | 0 | U | 0 | U | 0 | |
| Vanadium | 0 | U | 0 | U | 0 | |
| Zinc | 15.08 | | 14.15 | J | 6 | |

**ALS Houston, US** Date: 26-Jul-24

## Form 8 - ICP Serial Dilutions

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP Site 18 24
**WorkOrder:** HS24061218

Date Analyzed: 01-Jul-2024 11:34
Date Extracted: 26-Jun-2024 13:00
Units: ug/L

Lab Sample ID: HS24061196-10SD
Client Sample ID:

Analysis Method: SW6020A

| Analyte | Sample Result | C | SD Result | C | RPD | Q |
|---|---|---|---|---|---|---|
| Iron | 32060 | | 32050 | | 0 | |

**Report Generated By Teledyne Leeman QuickTrace**

**Analyst:** ALSHS.NoUser,

**Worksheet file:** C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\070124AW.wszf

**Creation Date:** 7/1/2024 10:47:49 AM

**Comment:**

# *Results*

| Sample Name | | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Calibration Blank | | | | | STD | 07/01/24 11:11:58 am | 0.000 | 36 | 66.63 | | |
| | Replicates | 26.3 | 19.0 | 27.5 | 71.8 | | | | | | |
| Standard #1 (0.2 ppb) | | | | | STD | 07/01/24 11:16:42 am | 0.200 | 1096 | 1.71 | -11.37% | |
| | Replicates | 1087.4 | 1097.6 | 1077.8 | 1121.4 | | | | | | |
| Standard #2 (0.5 ppb) | | | | | STD | 07/01/24 11:20:16 am | 0.500 | 2881 | 1.45 | -1.27% | |
| | Replicates | 2834.6 | 2890.6 | 2933.8 | 2865.6 | | | | | | |
| Standard #3 (2.0 ppb) | | | | | STD | 07/01/24 11:21:59 am | 2.000 | 11494 | 0.11 | 1.01% | |
| | Replicates | 11498.8 | 11486.2 | 11481.0 | 11510.2 | | | | | | |
| Standard #4 (5.0 ppb) | | | | | STD | 07/01/24 11:23:42 am | 5.000 | 28472 | 0.10 | 0.59% | |
| | Replicates | 28452.2 | 28446.3 | 28483.2 | 28504.3 | | | | | | |
| Standard #5 (10.0 ppb) | | | | | STD | 07/01/24 11:25:25 am | 10.000 | 56150 | 0.14 | -0.65% | |
| | Replicates | 56074.9 | 56106.3 | 56161.9 | 56256.1 | | | | | | |

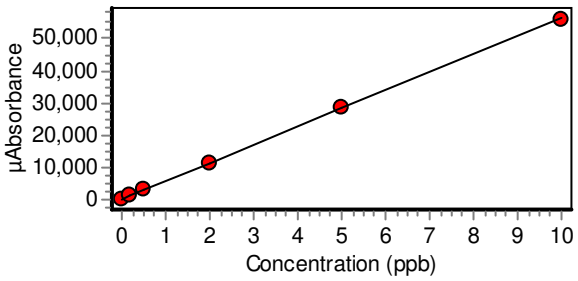
Calibration

Equation: Abs = 5641.977x + 95.961

R2: 0.99992 RSE: 6.65%

SEE: 221.2025

Flags:




| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ICCV | | | | | UNK | 07/01/24 11:33:56 am | 4.990 | 28266 | 0.25 | | |
| | Replicates | 28198.9 | 28250.0 | 28249.4 | 28367.2 | | | | | | |
| ICV | | | | | UNK | 07/01/24 11:35:37 am | 5.040 | 28506 | 0.17 | | |
| | Replicates | 28453.0 | 28486.7 | 28521.8 | 28563.7 | | | | | | |
| ICB | | | | | UNK | 07/01/24 11:37:19 am | -0.028 | -60 | 8.15 | | |
| | Replicates | -71.1 | -47.5 | -50.7 | -70.9 | | | | | | |
| CRA | | | | | UNK | 07/01/24 11:39:01 am | 0.170 | 1056 | 1.23 | | |
| | Replicates | 1040.3 | 1068.8 | 1055.0 | 1058.4 | | | | | | |
| CCV | | | | | UNK | 07/01/24 11:45:08 am | 4.960 | 28088 | 0.80 | | |
| | Replicates | 27837.7 | 27983.4 | 28182.4 | 28347.8 | | | | | | |
| CCB | | | | | UNK | 07/01/24 11:46:52 am | -0.033 | -88 | 8.20 | | |
| | Replicates | -91.5 | -67.8 | -104.2 | -88.6 | | | | | | |
| MBLK-214325 | | | | | UNK | 07/01/24 11:51:29 am | -0.005 | 70 | 100.44 | | |
| | Replicates | 61.2 | 37.5 | 86.4 | 95.1 | | | | | | |

| Sample Name | | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LCS-214325 | | | | | UNK | 07/01/24 11:53:11 am | 4.690 | 26542 | 0.26 | | |
| | Replicates | 26457.1 | 26524.9 | 26562.3 | 26622.6 | | | | | | |
| HS24061137-01 | | | | | UNK | 07/01/24 11:54:53 am | 0.007 | 137 | 38.83 | | |
| | Replicates | 153.4 | 136.4 | 141.9 | 115.6 | | | | | | |
| HS24061155-01 | | | | | UNK | 07/01/24 11:56:35 am | 0.008 | 142 | 23.82 | | |
| | Replicates | 127.6 | 147.8 | 153.2 | 140.8 | | | | | | |
| HS24061155-01MS | | | | | UNK | 07/01/24 11:58:18 am | 4.520 | 25589 | 0.14 | | |
| | Replicates | 25548.4 | 25584.7 | 25588.9 | 25635.9 | | | | | | |
| HS24061155-01MSD | | | | | UNK | 07/01/24 12:00:01 pm | 4.500 | 25487 | 0.38 | | |
| | Replicates | 25344.6 | 25516.2 | 25541.8 | 25543.6 | | | | | | |
| HS24061155-02 | | | | | UNK | 07/01/24 12:01:44 pm | 0.014 | 176 | 22.85 | | |
| | Replicates | 156.8 | 171.3 | 200.6 | 174.6 | | | | | | |
| HS24061155-03 | | | | | UNK | 07/01/24 12:03:27 pm | 0.017 | 189 | 12.79 | | |
| | Replicates | 204.9 | 177.1 | 183.6 | 190.6 | | | | | | |
| HS24061155-04 | | | | | UNK | 07/01/24 12:05:08 pm | 0.013 | 172 | 3.47 | | |
| | Replicates | 170.9 | 175.1 | 168.9 | 172.8 | | | | | | |
| HS24061155-05 | | | | | UNK | 07/01/24 12:06:49 pm | 0.002 | 106 | 344.10 | | |
| | Replicates | 67.0 | 88.2 | 129.2 | 139.0 | | | | | | |
| CCV | | | | | UNK | 07/01/24 12:10:47 pm | 4.960 | 28103 | 0.29 | | |
| | Replicates | 27998.4 | 28084.0 | 28146.6 | 28182.8 | | | | | | |
| CCB | | | | | UNK | 07/01/24 12:12:31 pm | -0.018 | -6 | 11.33 | | |
| | Replicates | -10.3 | 2.5 | -20.9 | 3.5 | | | | | | |
| HS24061155-06 | | | | | UNK | 07/01/24 12:14:12 pm | 0.003 | 114 | 100.63 | | |
| | Replicates | 120.7 | 103.1 | 136.3 | 95.9 | | | | | | |
| HS24061155-07 | | | | | UNK | 07/01/24 12:15:54 pm | 0.007 | 136 | 18.79 | | |
| | Replicates | 131.7 | 141.9 | 142.9 | 127.7 | | | | | | |
| HS24061332-01 | | | | | UNK | 07/01/24 12:17:36 pm | 0.015 | 182 | 8.58 | | |
| | Replicates | 187.2 | 188.1 | 178.6 | 172.6 | | | | | | |
| HS24061332-02 | | | | | UNK | 07/01/24 12:19:18 pm | -0.006 | 64 | 77.43 | | |
| | Replicates | 82.3 | 57.3 | 85.1 | 32.9 | | | | | | |
| HS24061332-02MS | | | | | UNK | 07/01/24 12:21:01 pm | 4.640 | 26252 | 0.21 | | |
| | Replicates | 26231.3 | 26225.8 | 26215.3 | 26335.7 | | | | | | |
| HS24061332-02MSD | | | | | UNK | 07/01/24 12:22:43 pm | 4.510 | 25515 | 0.18 | | |
| | Replicates | 25473.6 | 25479.3 | 25535.2 | 25570.6 | | | | | | |
| HS24061332-04 | | | | | UNK | 07/01/24 12:24:26 pm | 0.009 | 145 | 14.27 | | |
| | Replicates | 154.3 | 145.8 | 144.8 | 137.0 | | | | | | |
| HS24061332-05 | | | | | UNK | 07/01/24 12:26:08 pm | 0.010 | 154 | 10.63 | | |
| | Replicates | 147.9 | 160.7 | 157.9 | 149.9 | | | | | | |

| Sample Name | | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HS24061332-06 | | | | | UNK | 07/01/24 12:27:51 pm | 0.010 | 155 | 39.44 | | |
| | Replicates | 149.8 | 133.4 | 187.6 | 147.8 | | | | | | |
| HS24061335-01 | | | | | UNK | 07/01/24 12:29:34 pm | 0.008 | 138 | 22.97 | | |
| | Replicates | 128.0 | 148.9 | 144.1 | 132.4 | | | | | | |
| CCV | | | | | UNK | 07/01/24 12:31:39 pm | 4.960 | 28099 | 0.18 | | |
| | Replicates | 28046.3 | 28079.3 | 28103.8 | 28166.8 | | | | | | |
| CCB | | | | | UNK | 07/01/24 12:33:23 pm | -0.015 | 11 | 4.22 | | |
| | Replicates | 15.7 | 11.9 | 8.3 | 8.1 | | | | | | |
| HS24061335-02 | | | | | UNK | 07/01/24 12:37:51 pm | 0.001 | 99 | 177.37 | | |
| | Replicates | 107.1 | 94.5 | 100.7 | 94.9 | | | | | | |
| HS24061335-03 | | | | | UNK | 07/01/24 12:39:32 pm | 0.016 | 186 | 24.28 | | |
| | Replicates | 153.9 | 193.8 | 203.0 | 193.6 | | | | | | |
| HS24061335-04 | | | | | UNK | 07/01/24 12:41:14 pm | 0.010 | 151 | 17.29 | | |
| | Replicates | 142.0 | 159.4 | 142.9 | 158.1 | | | | | | |
| HS24061335-05 | | | | | UNK | 07/01/24 12:42:56 pm | 0.014 | 174 | 32.52 | | |
| | Replicates | 200.1 | 191.5 | 160.5 | 145.9 | | | | | | |
| HS24061335-06 | | | | | UNK | 07/01/24 12:44:38 pm | -0.006 | 64 | 32.12 | | |
| | Replicates | 68.2 | 62.7 | 51.5 | 75.5 | | | | | | |
| HS24061346-01 | | | | | UNK | 07/01/24 12:46:20 pm | 0.007 | 137 | 41.50 | | |
| | Replicates | 132.3 | 116.7 | 157.3 | 143.4 | | | | | | |
| MBLK-214346 | | | | | UNK | 07/01/24 12:48:02 pm | 0.002 | 107 | 110.97 | | |
| | Replicates | 108.8 | 122.8 | 95.8 | 99.8 | | | | | | |
| LCS-214346 | | | | | UNK | 07/01/24 12:49:45 pm | 4.800 | 27167 | 0.28 | | |
| | Replicates | 27080.3 | 27148.4 | 27179.1 | 27260.4 | | | | | | |
| MBLKT1-214282 | | | | | UNK | 07/01/24 12:51:27 pm | -0.004 | 73 | 28.09 | | |
| | Replicates | 76.0 | 70.3 | 80.9 | 66.5 | | | | | | |
| MBLKT2-214212 | | | | | UNK | 07/01/24 12:53:10 pm | -0.002 | 86 | 108.76 | | |
| | Replicates | 72.3 | 82.4 | 97.7 | 91.1 | | | | | | |
| CCV | | | | | UNK | 07/01/24 01:00:51 pm | 4.990 | 28258 | 0.23 | | |
| | Replicates | 28174.5 | 28254.5 | 28273.9 | 28330.7 | | | | | | |
| CCB | | | | | UNK | 07/01/24 01:02:35 pm | -0.015 | 14 | 8.39 | | |
| | Replicates | 21.8 | 13.9 | 13.9 | 4.9 | | | | | | |
| MBLKT3-213903 | | | | | UNK | 07/01/24 01:05:58 pm | 0.010 | 151 | 7.42 | | |
| | Replicates | 152.6 | 147.1 | 147.3 | 155.3 | | | | | | |
| MBLKT4-214284 | | | | | UNK | 07/01/24 01:07:41 pm | 0.013 | 170 | 6.05 | | |
| | Replicates | 170.2 | 170.7 | 175.7 | 164.7 | | | | | | |
| MBLKT5-213952 | | | | | UNK | 07/01/24 01:09:23 pm | -0.003 | 76 | 68.42 | | |
| | Replicates | 62.9 | 69.0 | 93.0 | 81.0 | | | | | | |

| Sample Name | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|
| HS24061177-01 | | UNK | 07/01/24 01:11:05 pm | -0.005 | 65 | 44.15 | | |
| Replicates | 58.2 | 68.5 | 51.1 | 82.5 | | | | |
| HS24061231-01 | | UNK | 07/01/24 01:12:46 pm | 0.002 | 110 | 79.28 | | |
| Replicates | 111.3 | 98.7 | 123.7 | 104.4 | | | | |
| HS24061231-02 | | UNK | 07/01/24 01:14:28 pm | 0.037 | 307 | 3.68 | | |
| Replicates | 314.3 | 304.7 | 296.7 | 311.1 | | | | |
| HS24061231-03 | | UNK | 07/01/24 01:16:10 pm | 0.107 | 697 | 3.06 | | |
| Replicates | 724.0 | 683.9 | 694.3 | 686.7 | | | | |
| HS24061536-01 | | UNK | 07/01/24 01:17:52 pm | -0.003 | 77 | 44.37 | | |
| Replicates | 75.8 | 73.3 | 89.3 | 70.4 | | | | |
| HS24061544-01 | | UNK | 07/01/24 01:19:35 pm | 0.022 | 219 | 14.91 | | |
| Replicates | 198.4 | 212.4 | 221.8 | 242.1 | | | | |
| HS24061544-01MS | | UNK | 07/01/24 01:25:06 pm | 4.550 | 25767 | 0.23 | | |
| Replicates | 25825.9 | 25720.8 | 25711.8 | 25807.8 | | | | |
| CCV | | UNK | 07/01/24 01:30:53 pm | 4.740 | 26867 | 0.11 | | |
| Replicates | 26829.8 | 26869.7 | 26863.8 | 26903.7 | | | | |
| CCB | | UNK | 07/01/24 01:32:37 pm | -0.025 | -42 | 10.28 | | |
| Replicates | -47.5 | -21.3 | -52.1 | -48.9 | | | | |
| HS24061544-01MSSD | | UNK | 07/01/24 01:34:20 pm | 4.240 | 24010 | 0.57 | | |
| Replicates | 23854.2 | 23971.0 | 24037.6 | 24178.6 | | | | |
| HS24061544-02 | | UNK | 07/01/24 01:36:02 pm | -0.002 | 85 | 88.86 | | |
| Replicates | 81.5 | 78.4 | 99.6 | 79.0 | | | | |
| HS24061613-01 | | UNK | 07/01/24 01:37:45 pm | 0.015 | 182 | 13.42 | | |
| Replicates | 171.4 | 172.0 | 193.4 | 189.4 | | | | |
| HS24061628-01 | | UNK | 07/01/24 01:39:28 pm | 0.010 | 150 | 45.06 | | |
| Replicates | 149.0 | 136.0 | 129.6 | 183.8 | | | | |
| HS24061628-02 | | UNK | 07/01/24 01:41:10 pm | 0.006 | 128 | 40.25 | | |
| Replicates | 134.1 | 121.9 | 113.8 | 143.1 | | | | |
| HS24061628-03 | | UNK | 07/01/24 01:42:52 pm | 0.015 | 181 | 22.18 | | |
| Replicates | 156.8 | 194.9 | 176.4 | 197.6 | | | | |
| HS24061628-04 | | UNK | 07/01/24 01:44:34 pm | -0.004 | 72 | 112.93 | | |
| Replicates | 102.7 | 45.0 | 54.4 | 86.2 | | | | |
| HS24061628-05 | | UNK | 07/01/24 01:46:16 pm | -0.012 | 30 | 25.12 | | |
| Replicates | 7.0 | 34.8 | 30.2 | 46.8 | | | | |
| HS24061628-06 | | UNK | 07/01/24 01:47:58 pm | -0.002 | 86 | 92.96 | | |
| Replicates | 92.7 | 93.8 | 74.3 | 84.3 | | | | |
| HS24061628-07 | | UNK | 07/01/24 01:49:41 pm | 0.006 | 130 | 53.15 | | |
| Replicates | 115.9 | 131.7 | 154.3 | 116.9 | | | | |

| Sample Name | | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CCV | | | | | UNK | 07/01/24 01:51:50 pm | 4.990 | 28240 | 0.36 | | |
| | Replicates | 28120.0 | 28219.2 | 28258.8 | 28363.2 | | | | | | |
| CCB | | | | | UNK | 07/01/24 01:53:34 pm | -0.011 | 32 | 23.49 | | |
| | Replicates | 24.3 | 19.1 | 53.1 | 32.5 | | | | | | |
| HS24061628-08 | | | | | UNK | 07/01/24 01:57:17 pm | 0.005 | 124 | 28.15 | | |
| | Replicates | 123.2 | 112.9 | 129.1 | 129.9 | | | | | | |
| HS24061628-09 | | | | | UNK | 07/01/24 01:58:59 pm | 0.007 | 137 | 28.94 | | |
| | Replicates | 121.2 | 141.6 | 136.9 | 149.6 | | | | | | |
| HS24061628-10 | | | | | UNK | 07/01/24 02:00:42 pm | 0.013 | 167 | 22.83 | | |
| | Replicates | 158.6 | 148.9 | 177.1 | 184.1 | | | | | | |
| HS24061628-11 | | | | | UNK | 07/01/24 02:02:25 pm | 0.004 | 117 | 36.26 | | |
| | Replicates | 113.0 | 110.9 | 128.3 | 117.3 | | | | | | |
| HS24061674-01 | | | | | UNK | 07/01/24 02:04:07 pm | -0.010 | 41 | 32.73 | | |
| | Replicates | 26.0 | 64.9 | 45.5 | 29.1 | | | | | | |
| MBLK-214354 | | | | | UNK | 07/01/24 02:05:50 pm | 0.031 | 271 | 7.57 | | |
| | Replicates | 285.1 | 265.5 | 255.7 | 279.1 | | | | | | |
| LCS-214354 | | | | | UNK | 07/01/24 02:07:33 pm | 4.710 | 26657 | 0.32 | | |
| | Replicates | 26553.1 | 26642.0 | 26676.0 | 26755.4 | | | | | | |
| HS24061170-02 | | | | | UNK | 07/01/24 02:09:15 pm | 0.021 | 215 | 14.74 | | |
| | Replicates | 195.1 | 211.6 | 214.4 | 237.6 | | | | | | |
| HS24061170-03 | | | | | UNK | 07/01/24 02:10:57 pm | -0.006 | 61 | 42.40 | | |
| | Replicates | 48.4 | 65.5 | 51.3 | 80.3 | | | | | | |
| HS24061170-04 | | | | | UNK | 07/01/24 02:12:40 pm | 0.005 | 123 | 61.38 | | |
| | Replicates | 113.1 | 111.1 | 146.9 | 120.4 | | | | | | |
| CCV | | | | | UNK | 07/01/24 02:15:39 pm | 4.980 | 28206 | 0.38 | | |
| | Replicates | 28057.3 | 28211.8 | 28250.8 | 28303.4 | | | | | | |
| CCB | | | | | UNK | 07/01/24 02:17:23 pm | -0.018 | -8 | 10.08 | | |
| | Replicates | 4.5 | -17.4 | -15.2 | -2.4 | | | | | | |
| HS24061170-05 | | | | | UNK | 07/01/24 02:19:05 pm | 0.018 | 197 | 5.80 | | |
| | Replicates | 188.9 | 195.1 | 201.1 | 201.1 | | | | | | |
| HS24061170-06 | | | | | UNK | 07/01/24 02:20:47 pm | 0.012 | 164 | 22.60 | | |
| | Replicates | 155.6 | 186.9 | 153.5 | 160.9 | | | | | | |
| HS24061236-02 | | | | | UNK | 07/01/24 02:22:30 pm | 0.005 | 125 | 49.44 | | |
| | Replicates | 107.2 | 133.1 | 140.1 | 120.7 | | | | | | |
| HS24061236-02MS | | | | | UNK | 07/01/24 02:24:12 pm | 3.340 | 18939 | 2.04 | | |
| | Replicates | 18486.8 | 18792.8 | 19101.4 | 19375.8 | | | | | | |
| HS24061236-02MSD | | | | | UNK | 07/01/24 02:27:50 pm | 4.490 | 25419 | 0.46 | | |
| | Replicates | 25269.3 | 25394.7 | 25465.7 | 25546.4 | | | | | | |

| Sample Name | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|
| HS24061236-02MS | | | | UNK | 07/01/24 02:30:36 pm | 4.460 | 25242 | 0.36 | | |
| Replicates | 25124.9 | 25237.8 | 25258.8 | 25344.7 | | | | | | |
| HS24061236-03 | | | | UNK | 07/01/24 02:32:18 pm | -0.014 | 15 | 39.42 | | |
| Replicates | -21.3 | 18.5 | 7.1 | 55.8 | | | | | | |
| HS24061236-04 | | | | UNK | 07/01/24 02:34:01 pm | -0.004 | 74 | 62.88 | | |
| Replicates | 53.7 | 77.8 | 75.8 | 86.9 | | | | | | |
| HS24061236-05 | | | | UNK | 07/01/24 02:35:44 pm | -0.004 | 71 | 48.65 | | |
| Replicates | 62.3 | 85.5 | 60.1 | 76.7 | | | | | | |
| HS24061236-06 | | | | UNK | 07/01/24 02:37:26 pm | 0.003 | 112 | 97.67 | | |
| Replicates | 101.4 | 111.4 | 135.6 | 101.4 | | | | | | |
| CCV | | | | UNK | 07/01/24 02:40:11 pm | 4.990 | 28267 | 0.25 | | |
| Replicates | 28179.1 | 28256.4 | 28288.4 | 28345.6 | | | | | | |
| CCB | | | | UNK | 07/01/24 02:41:55 pm | -0.019 | -12 | 13.73 | | |
| Replicates | 8.4 | -12.4 | -26.5 | -17.9 | | | | | | |
| HS24061236-07 | | | | UNK | 07/01/24 02:43:37 pm | 0.004 | 119 | 56.93 | | |
| Replicates | 134.1 | 118.7 | 123.1 | 101.9 | | | | | | |
| HS24061247-01 | | | | UNK | 07/01/24 02:45:20 pm | -0.007 | 55 | 22.58 | | |
| Replicates | 66.6 | 59.0 | 47.0 | 48.8 | | | | | | |
| HS24061247-01MS | | | | UNK | 07/01/24 02:49:19 pm | 4.690 | 26557 | 0.32 | | |
| Replicates | 26455.8 | 26527.1 | 26591.3 | 26654.7 | | | | | | |
| HS24061247-01MSD | | | | UNK | 07/01/24 02:53:28 pm | 4.790 | 27143 | 0.27 | | |
| Replicates | 27052.6 | 27133.3 | 27158.7 | 27226.7 | | | | | | |
| CCV | | | | UNK | 07/01/24 02:56:41 pm | 5.030 | 28463 | 0.30 | | |
| Replicates | 28353.2 | 28443.4 | 28517.4 | 28538.4 | | | | | | |
| CCB | | | | UNK | 07/01/24 02:58:25 pm | -0.018 | -6 | 20.22 | | |
| Replicates | 4.3 | -35.8 | 11.0 | -5.0 | | | | | | |
| CCV | | | | UNK | 07/01/24 04:35:15 pm | 4.970 | 28115 | 0.29 | | |
| Replicates | 27998.4 | 28116.5 | 28157.3 | 28185.9 | | | | | | |
| CCB | | | | UNK | 07/01/24 04:36:59 pm | -0.021 | -20 | 14.14 | | |
| Replicates | -28.5 | -38.0 | -6.6 | -5.0 | | | | | | |
| MBLK-214367 | | | | UNK | 07/01/24 04:41:13 pm | 0.007 | 137 | 27.98 | | |
| Replicates | 123.1 | 149.2 | 143.4 | 133.0 | | | | | | |
| LCS-214367 | | | | UNK | 07/01/24 04:42:55 pm | 4.700 | 26630 | 0.34 | | |
| Replicates | 26508.3 | 26613.7 | 26697.3 | 26699.3 | | | | | | |
| HS234061289-01 | | | | UNK | 07/01/24 04:44:38 pm | -0.006 | 61 | 92.66 | | |
| Replicates | 20.5 | 48.5 | 93.3 | 80.3 | | | | | | |
| HS234061289-01MS | | | | UNK | 07/01/24 04:46:20 pm | 4.600 | 26022 | 1.22 | | |
| Replicates | 25596.4 | 25986.4 | 26175.4 | 26327.8 | | | | | | |

| Sample Name | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|
| HS234061289-01MSD | | | | UNK | 07/01/24 04:50:05 pm | 4.680 | 26484 | 0.48 | | |
| Replicates | 26323.3 | 26459.3 | 26530.3 | 26624.9 | | | | | | |
| HS24061332-03 | | | | UNK | 07/01/24 04:51:48 pm | 0.008 | 143 | 17.78 | | |
| Replicates | 130.6 | 145.9 | 148.3 | 147.6 | | | | | | |
| HS24061482-01 | | | | UNK | 07/01/24 04:53:31 pm | 0.004 | 116 | 92.03 | | |
| Replicates | 101.7 | 102.8 | 118.3 | 141.1 | | | | | | |
| HS24061482-02 | | | | UNK | 07/01/24 04:55:13 pm | -0.001 | 91 | 371.27 | | |
| Replicates | 110.6 | 73.5 | 81.1 | 100.3 | | | | | | |
| HS24061482-03 | | | | UNK | 07/01/24 04:56:56 pm | 0.010 | 152 | 32.15 | | |
| Replicates | 155.6 | 155.9 | 126.7 | 169.3 | | | | | | |
| HS24061482-04 | | | | UNK | 07/01/24 04:58:38 pm | 0.010 | 151 | 38.59 | | |
| Replicates | 135.6 | 167.0 | 170.4 | 129.4 | | | | | | |
| CCV | | | | UNK | 07/01/24 05:01:47 pm | 4.940 | 27993 | 0.16 | | |
| Replicates | 27933.8 | 28018.5 | 27983.3 | 28038.3 | | | | | | |
| CCB | | | | UNK | 07/01/24 05:03:31 pm | -0.017 | -2 | 25.28 | | |
| Replicates | -2.1 | 22.9 | -36.0 | 6.7 | | | | | | |
| HS24061482-05 | | | | UNK | 07/01/24 05:05:14 pm | 0.015 | 178 | 10.60 | | |
| Replicates | 179.3 | 172.6 | 190.2 | 171.0 | | | | | | |
| HS24061482-06 | | | | UNK | 07/01/24 05:06:56 pm | 0.007 | 133 | 41.70 | | |
| Replicates | 129.7 | 139.4 | 112.8 | 148.6 | | | | | | |
| HS24061486-01 | | | | UNK | 07/01/24 05:08:39 pm | -0.001 | 92 | 238.83 | | |
| Replicates | 91.7 | 102.0 | 94.4 | 81.3 | | | | | | |
| HS24061486-01MS | | | | UNK | 07/01/24 05:10:21 pm | 2.920 | 16575 | 0.65 | | |
| Replicates | 16437.6 | 16568.7 | 16596.9 | 16696.1 | | | | | | |
| HS24061486-01MSD | | | | UNK | 07/01/24 05:12:04 pm | 3.050 | 17302 | 1.43 | | |
| Replicates | 17010.7 | 17214.4 | 17398.6 | 17584.8 | | | | | | |
| HS24061486-02 | | | | UNK | 07/01/24 05:13:47 pm | 0.001 | 101 | 342.01 | | |
| Replicates | 77.1 | 108.1 | 119.1 | 100.4 | | | | | | |
| HS24061486-03 | | | | UNK | 07/01/24 05:15:30 pm | 0.005 | 123 | 41.91 | | |
| Replicates | 132.3 | 120.3 | 107.8 | 129.9 | | | | | | |
| HS24061486-04 | | | | UNK | 07/01/24 05:17:12 pm | -0.003 | 77 | 38.43 | | |
| Replicates | 74.2 | 83.6 | 67.4 | 81.6 | | | | | | |
| HS24061486-05 | | | | UNK | 07/01/24 05:18:55 pm | 0.012 | 165 | 21.08 | | |
| Replicates | 153.9 | 167.9 | 153.3 | 184.1 | | | | | | |
| HS24061486-06 | | | | UNK | 07/01/24 05:20:38 pm | 0.008 | 141 | 17.38 | | |
| Replicates | 151.9 | 141.9 | 135.9 | 134.7 | | | | | | |
| CCV | | | | UNK | 07/01/24 05:23:12 pm | 4.950 | 28027 | 0.22 | | |
| Replicates | 27948.6 | 28008.8 | 28057.4 | 28092.8 | | | | | | |

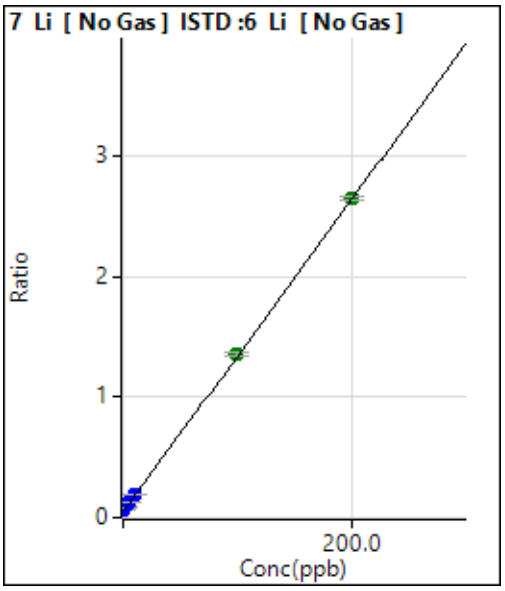
| Sample Name | | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CCB | | | | | UNK | 07/01/24 05:24:56 pm | -0.014 | 18 | 14.49 | | |
| | Replicates | 23.5 | 8.0 | 30.6 | 8.0 | | | | | | |
| HS24061489-01 | | | | | UNK | 07/01/24 05:26:39 pm | -0.010 | 41 | 10.21 | | |
| | Replicates | 45.7 | 40.2 | 44.0 | 33.0 | | | | | | |
| HS24061489-02 | | | | | UNK | 07/01/24 05:28:21 pm | 0.007 | 133 | 13.03 | | |
| | Replicates | 128.9 | 137.6 | 129.4 | 137.6 | | | | | | |
| HS24061489-03 | | | | | UNK | 07/01/24 05:30:04 pm | -0.015 | 9 | 15.22 | | |
| | Replicates | 15.0 | 7.7 | -9.5 | 21.3 | | | | | | |
| HS24061489-04 | | | | | UNK | 07/01/24 05:31:47 pm | 0.007 | 137 | 21.90 | | |
| | Replicates | 137.4 | 124.7 | 139.6 | 146.1 | | | | | | |
| HS24061489-05 | | | | | UNK | 07/01/24 05:33:29 pm | 0.012 | 165 | 25.34 | | |
| | Replicates | 160.6 | 149.7 | 158.3 | 189.7 | | | | | | |
| HS24061489-06 | | | | | UNK | 07/01/24 05:35:12 pm | 0.004 | 119 | 92.07 | | |
| | Replicates | 110.5 | 110.3 | 149.8 | 104.2 | | | | | | |
| MBLK-214374 | | | | | UNK | 07/01/24 05:38:01 pm | 0.015 | 182 | 8.10 | | |
| | Replicates | 185.5 | 190.0 | 174.0 | 179.4 | | | | | | |
| LCS-214374 | | | | | UNK | 07/01/24 05:39:43 pm | 4.600 | 26072 | 0.36 | | |
| | Replicates | 25955.3 | 26042.2 | 26119.8 | 26170.2 | | | | | | |
| HS24061196-01 | | | | | UNK | 07/01/24 05:41:26 pm | 0.012 | 166 | 22.33 | | |
| | Replicates | 188.0 | 152.6 | 163.3 | 158.4 | | | | | | |
| HS24061196-02 | | | | | UNK | 07/01/24 05:43:09 pm | 0.014 | 173 | 14.27 | | |
| | Replicates | 164.7 | 189.3 | 170.9 | 167.9 | | | | | | |
| CCV | | | | | UNK | 07/01/24 05:46:27 pm | 4.980 | 28184 | 0.69 | | |
| | Replicates | 27918.5 | 28172.7 | 28288.7 | 28357.4 | | | | | | |
| CCB | | | | | UNK | 07/01/24 05:48:11 pm | -0.019 | -13 | 16.37 | | |
| | Replicates | 13.2 | -27.4 | -16.4 | -19.6 | | | | | | |
| HS24061196-05 | | | | | UNK | 07/01/24 05:49:54 pm | 0.010 | 151 | 61.04 | | |
| | Replicates | 112.2 | 136.7 | 167.1 | 189.1 | | | | | | |
| HS24061196-06 | | | | | UNK | 07/01/24 05:51:36 pm | 0.015 | 181 | 3.22 | | |
| | Replicates | 182.1 | 177.3 | 179.7 | 183.5 | | | | | | |
| HS24061196-08 | | | | | UNK | 07/01/24 05:53:19 pm | 0.016 | 184 | 14.89 | | |
| | Replicates | 174.6 | 172.3 | 200.4 | 188.3 | | | | | | |
| HS24061196-09 | | | | | UNK | 07/01/24 05:55:02 pm | 0.022 | 220 | 3.42 | | |
| | Replicates | 222.7 | 224.6 | 218.4 | 215.1 | | | | | | |
| HS24061196-10 | | | | | UNK | 07/01/24 05:56:45 pm | 0.015 | 178 | 18.74 | | |
| | Replicates | 166.2 | 163.1 | 191.9 | 190.4 | | | | | | |
| HS24061218-02 | | | | | UNK | 07/01/24 05:58:28 pm | 0.018 | 200 | 18.25 | | |
| | Replicates | 210.1 | 171.8 | 209.6 | 210.0 | | | | | | |

| Sample Name | | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HS24061218-03 | | | | | UNK | 07/01/24 06:00:11 pm | 0.007 | 138 | 34.80 | | |
| | Replicates | 116.0 | 142.9 | 145.9 | 146.1 | | | | | | |
| HS24061218-05 | | | | | UNK | 07/01/24 06:01:53 pm | 0.018 | 200 | 9.95 | | |
| | Replicates | 208.3 | 206.4 | 185.4 | 200.1 | | | | | | |
| HS24061218-07 | | | | | UNK | 07/01/24 06:03:36 pm | 0.025 | 236 | 8.10 | | |
| | Replicates | 240.6 | 245.7 | 219.7 | 238.5 | | | | | | |
| HS24061313-01 | | | | | UNK | 07/01/24 06:05:19 pm | 0.000 | 94 | 812.25 | | |
| | Replicates | 79.3 | 85.8 | 107.6 | 104.3 | | | | | | |
| CCV | | | | | UNK | 07/01/24 06:08:25 pm | 4.910 | 27771 | 1.60 | | |
| | Replicates | 27160.5 | 27735.8 | 28033.3 | 28155.1 | | | | | | |
| CCB | | | | | UNK | 07/01/24 06:10:09 pm | -0.019 | -10 | 12.19 | | |
| | Replicates | 6.9 | -18.4 | -8.1 | -22.1 | | | | | | |
| HS24061313-01MS | | | | | UNK | 07/01/24 06:13:56 pm | 4.630 | 26218 | 0.30 | | |
| | Replicates | 26116.5 | 26200.7 | 26271.1 | 26284.4 | | | | | | |
| HS24061313-01MSD | | | | | UNK | 07/01/24 06:15:39 pm | 4.440 | 25131 | 3.51 | | |
| | Replicates | 24033.1 | 24872.7 | 25561.7 | 26058.1 | | | | | | |
| HS24061313-02 | | | | | UNK | 07/01/24 06:17:22 pm | 0.006 | 132 | 13.98 | | |
| | Replicates | 139.4 | 129.4 | 129.4 | 129.2 | | | | | | |
| HS24061313-03 | | | | | UNK | 07/01/24 06:19:05 pm | -0.008 | 52 | 31.25 | | |
| | Replicates | 43.7 | 38.6 | 68.8 | 57.6 | | | | | | |
| HS24061313-04 | | | | | UNK | 07/01/24 06:20:48 pm | 0.034 | 285 | 5.18 | | |
| | Replicates | 290.1 | 285.9 | 292.9 | 270.9 | | | | | | |
| HS24061196-10MS | | | | | UNK | 07/01/24 06:24:38 pm | 4.220 | 23894 | 0.10 | | |
| | Replicates | 23859.5 | 23911.7 | 23906.1 | 23900.7 | | | | | | |
| HS24061196-10MS | | | | | UNK | 07/01/24 06:26:21 pm | 4.260 | 24105 | 2.14 | | |
| | Replicates | 23444.1 | 23981.7 | 24372.9 | 24621.9 | | | | | | |
| CCV | | | | | UNK | 07/01/24 06:29:26 pm | 4.830 | 27362 | 0.86 | | |
| | Replicates | 27058.5 | 27320.5 | 27460.1 | 27609.1 | | | | | | |
| CCB | | | | | UNK | 07/01/24 06:31:10 pm | -0.025 | -42 | 11.80 | | |
| | Replicates | -25.0 | -34.0 | -62.2 | -48.3 | | | | | | |
| CRA | | | | | UNK | 07/01/24 06:35:04 pm | 0.143 | 903 | 2.18 | | |
| | Replicates | 882.3 | 907.0 | 898.8 | 924.6 | | | | | | |

Calibration for 172_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062824A.b\
Analysis File: 062824A.batch.bin
DA Date-Time: 6/28/2024 10:08:19 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

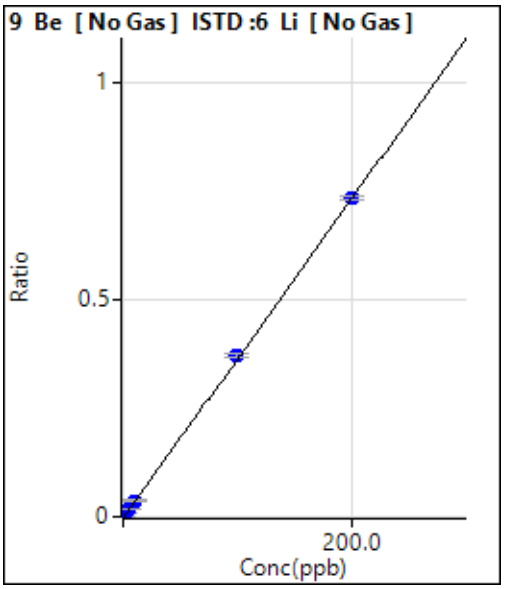
| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 165CALB.d | CAL BLK | 6/28/2024 6:26:19 PM |
| 2 | 166CALS.d | 2/10/200 | 6/28/2024 6:28:52 PM |
| 3 | 167CALS.d | 5/25/500 | 6/28/2024 6:31:25 PM |
| 4 | 168CALS.d | 10/50/100 | 6/28/2024 6:33:57 PM |
| 5 | 169CALS.d | 100/500/10K | 6/28/2024 6:36:29 PM |
| 6 | 170CALS.d | 200/1000/20K | 6/28/2024 6:39:02 PM |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 48562.36 | 0.0615 | P | 1.1 | |
| 2 | ☐ | 2.000 | 2.046 | 68240.54 | 0.0880 | P | 0.9 | 2.3 |
| 3 | ☐ | 5.000 | 5.201 | 99702.13 | 0.1289 | P | 1.0 | 4.0 |
| 4 | ☐ | 10.000 | 10.292 | 147790.64 | 0.1949 | P | 1.4 | 2.9 |
| 5 | ☐ | 100.000 | 100.357 | 956336.86 | 1.3622 | A | 2.3 | 0.4 |
| 6 | ☐ | 200.000 | 199.802 | 1808944.30 | 2.6511 | A | 1.1 | -0.1 |

y = 0.0130 * x + 0.0615
R = 1.0000
DL = 0.1599 ppb
BEC = 4.745 ppb

Weight: <None>
Min Conc: <None>

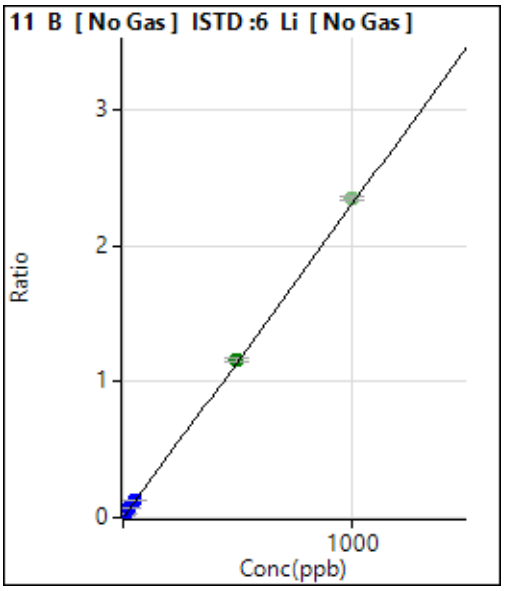



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 46.67 | 0.0001 | P | 37.7 | |
| 2 | ☐ | 2.000 | 2.024 | 5809.56 | 0.0075 | P | 4.2 | 1.2 |
| 3 | ☐ | 5.000 | 5.115 | 14579.18 | 0.0188 | P | 1.9 | 2.3 |
| 4 | ☐ | 10.000 | 10.135 | 28274.79 | 0.0373 | P | 3.3 | 1.3 |
| 5 | ☐ | 100.000 | 100.968 | 260427.17 | 0.3710 | P | 3.1 | 1.0 |
| 6 | ☐ | 200.000 | 199.506 | 500113.42 | 0.7330 | P | 0.8 | -0.2 |

y = 0.0037 * x + 5.9113E-005
R = 1.0000
DL = 0.0182 ppb
BEC = 0.01609 ppb

Weight: <None>
Min Conc: <None>

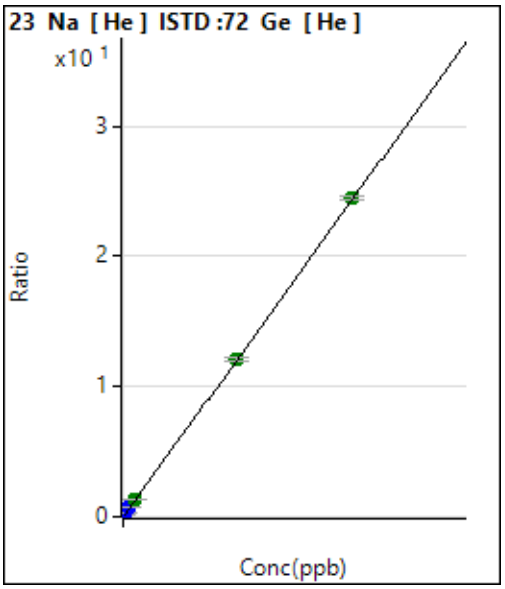
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7922.26 | 0.0100 | P | 3.9 | |
| 2 | ☐ | 10.000 | 10.121 | 25820.80 | 0.0333 | P | 4.0 | 1.2 |
| 3 | ☐ | 25.000 | 24.965 | 52173.58 | 0.0675 | P | 1.9 | -0.1 |
| 4 | ☐ | 50.000 | 50.401 | 95519.95 | 0.1260 | P | 1.0 | 0.8 |
| 5 | ☐ | 500.000 | 499.959 | 814385.20 | 1.1600 | A | 2.2 | 0.0 |
| 6 | ☑ | 1000.000 | | 1601392.89 | 2.3470 | A | 0.6 | |

y = 0.0023 * x + 0.0100
R = 1.0000
DL = 0.5068 ppb
BEC = 4.362 ppb

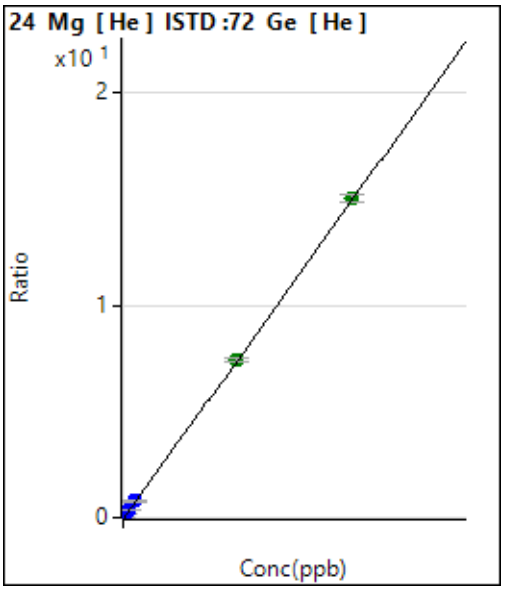
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 86476.89 | 0.0950 | P | 0.9 | |
| 2 | ☐ | 200.000 | 207.191 | 310252.24 | 0.3471 | P | 1.1 | 3.6 |
| 3 | ☐ | 500.000 | 522.648 | 651517.72 | 0.7308 | P | 0.8 | 4.5 |
| 4 | ☐ | 1000.000 | 1030.735 | 1196257.53 | 1.3488 | A | 1.3 | 3.1 |
| 5 | ☐ | 10000.00 | 9869.063 | 10219544.43 | 12.0996 | A | 1.9 | -1.3 |
| 6 | ☐ | 20000.00 | 20063.29 | 20275589.70 | 24.4996 | A | 1.8 | 0.3 |

y = 0.0012 * x + 0.0950
R = 1.0000
DL = 2.078 ppb
BEC = 78.13 ppb

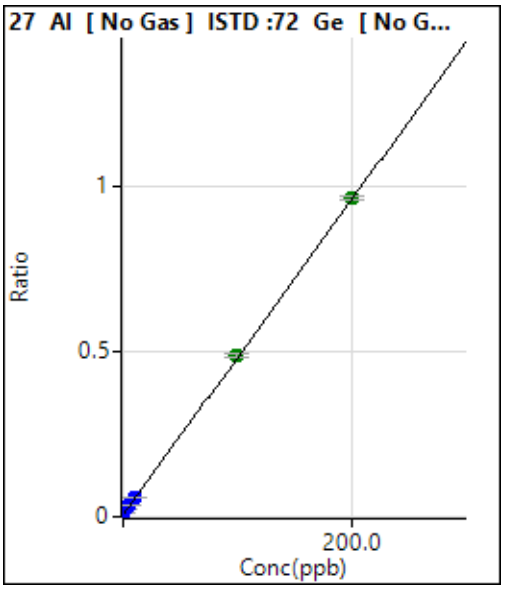
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1970.17 | 0.0022 | P | 7.1 | |
| 2 | ☐ | 200.000 | 205.278 | 139572.12 | 0.1561 | P | 1.7 | 2.6 |
| 3 | ☐ | 500.000 | 518.172 | 348425.87 | 0.3908 | P | 2.3 | 3.6 |
| 4 | ☐ | 1000.000 | 1026.864 | 685006.73 | 0.7723 | P | 1.2 | 2.7 |
| 5 | ☐ | 10000.00 | 9891.425 | 6267945.53 | 7.4209 | A | 2.2 | -1.1 |
| 6 | ☐ | 20000.00 | 20052.43 | 12448558.56 | 15.0418 | A | 1.9 | 0.3 |

y = 7.5002E-004 * x + 0.0022
R = 1.0000
DL = 0.6173 ppb
BEC = 2.888 ppb

Weight: <None>
Min Conc: <None>

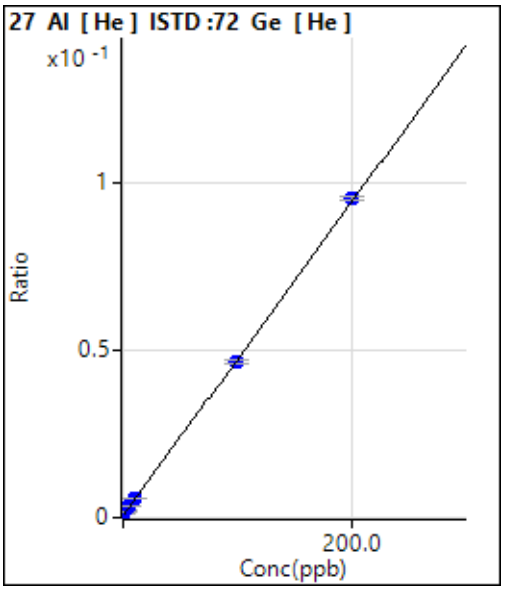



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 35474.87 | 0.0111 | P | 6.7 | |
| 2 | ☐ | 2.000 | 2.083 | 66346.00 | 0.0210 | P | 2.1 | 4.2 |
| 3 | ☐ | 5.000 | 5.023 | 110225.07 | 0.0350 | P | 0.7 | 0.5 |
| 4 | ☐ | 10.000 | 10.235 | 185893.60 | 0.0599 | P | 1.3 | 2.4 |
| 5 | ☐ | 100.000 | 99.862 | 1423884.88 | 0.4871 | A | 2.3 | -0.1 |
| 6 | ☐ | 200.000 | 200.056 | 2738133.71 | 0.9647 | A | 0.7 | 0.0 |

y = 0.0048 * x + 0.0111
R = 1.0000
DL = 0.4677 ppb
BEC = 2.324 ppb

Weight: <None>
Min Conc: <None>

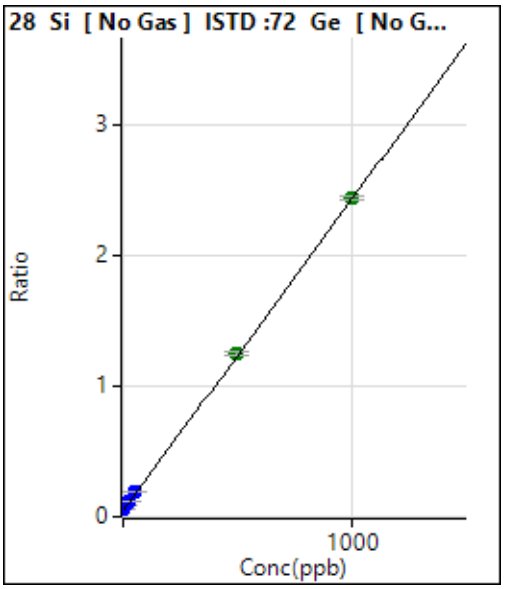
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1003.39 | 0.0011 | P | 8.1 | |
| 2 | ☐ | 2.000 | 2.099 | 1866.83 | 0.0021 | P | 15.7 | 4.9 |
| 3 | ☐ | 5.000 | 4.738 | 2963.69 | 0.0033 | P | 4.3 | -5.2 |
| 4 | ☐ | 10.000 | 10.147 | 5197.72 | 0.0059 | P | 3.1 | 1.5 |
| 5 | ☐ | 100.000 | 97.180 | 39415.58 | 0.0467 | P | 3.2 | -2.8 |
| 6 | ☐ | 200.000 | 201.408 | 79061.32 | 0.0955 | P | 0.9 | 0.7 |

y = 4.6885E-004 * x + 0.0011
R = 0.9999
DL = 0.5721 ppb
BEC = 2.352 ppb

Weight: <None>
Min Conc: <None>

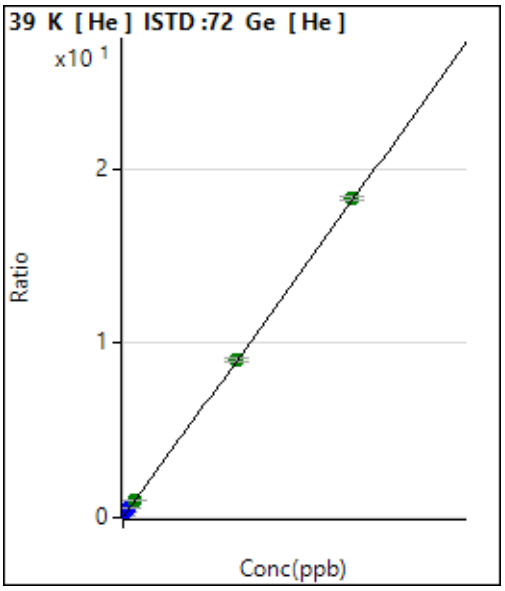



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 184259.15 | 0.0575 | P | 1.7 | |
| 2 | ☐ | 10.000 | 10.400 | 259909.01 | 0.0823 | P | 1.6 | 4.0 |
| 3 | ☐ | 25.000 | 26.716 | 381347.95 | 0.1212 | P | 0.3 | 6.9 |
| 4 | ☐ | 50.000 | 53.510 | 574378.35 | 0.1850 | P | 0.7 | 7.0 |
| 5 | ☐ | 500.000 | 499.927 | 3648709.84 | 1.2482 | A | 1.9 | 0.0 |
| 6 | ☐ | 1000.000 | 999.814 | 6921646.57 | 2.4388 | A | 0.6 | 0.0 |

y = 0.0024 * x + 0.0575
R = 1.0000
DL = 1.249 ppb
BEC = 24.16 ppb

Weight: <None>
Min Conc: <None>

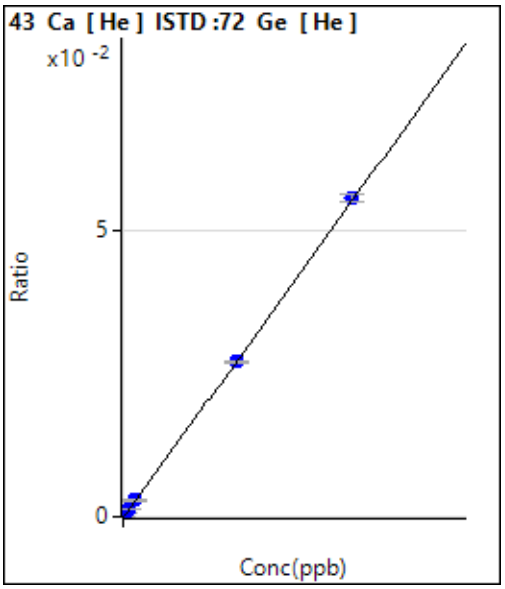
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 95326.84 | 0.1048 | P | 0.9 | |
| 2 | ☐ | 200.000 | 205.310 | 260000.73 | 0.2908 | P | 0.6 | 2.7 |
| 3 | ☐ | 500.000 | 514.051 | 508755.27 | 0.5707 | P | 1.0 | 2.8 |
| 4 | ☐ | 1000.000 | 1025.324 | 917141.05 | 1.0340 | A | 0.9 | 2.5 |
| 5 | ☐ | 10000.00 | 9837.255 | 7619024.88 | 9.0204 | A | 2.3 | -1.6 |
| 6 | ☐ | 20000.00 | 20079.70 | 15147611.02 | 18.3032 | A | 1.1 | 0.4 |

y = 9.0631E-004 * x + 0.1048
R = 1.0000
DL = 3.057 ppb
BEC = 115.6 ppb

Weight: <None>
Min Conc: <None>

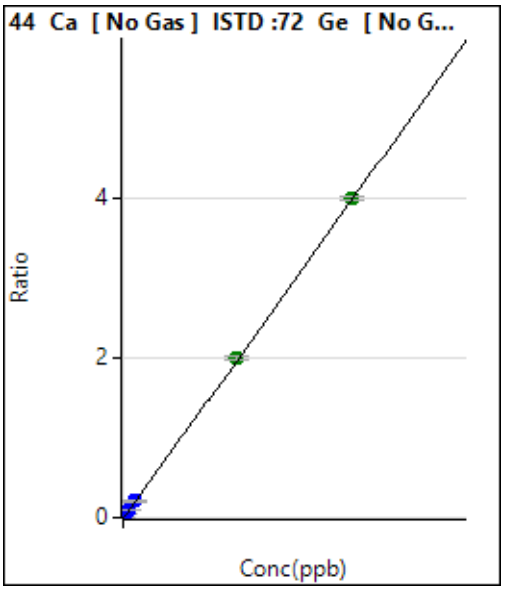



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 46.67 | 0.0001 | P | 32.0 | |
| 2 | ☐ | 200.000 | 208.883 | 563.35 | 0.0006 | P | 5.6 | 4.4 |
| 3 | ☐ | 500.000 | 493.005 | 1263.41 | 0.0014 | P | 11.9 | -1.4 |
| 4 | ☐ | 1000.000 | 1054.272 | 2636.96 | 0.0030 | P | 9.8 | 5.4 |
| 5 | ☐ | 10000.00 | 9749.863 | 22872.45 | 0.0271 | P | 2.0 | -2.5 |
| 6 | ☐ | 20000.00 | 20122.44 | 46196.91 | 0.0558 | P | 2.3 | 0.6 |

y = 2.7716E-006 * x + 5.1206E-005
R = 0.9999
DL = 17.75 ppb
BEC = 18.48 ppb

Weight: <None>
Min Conc: <None>

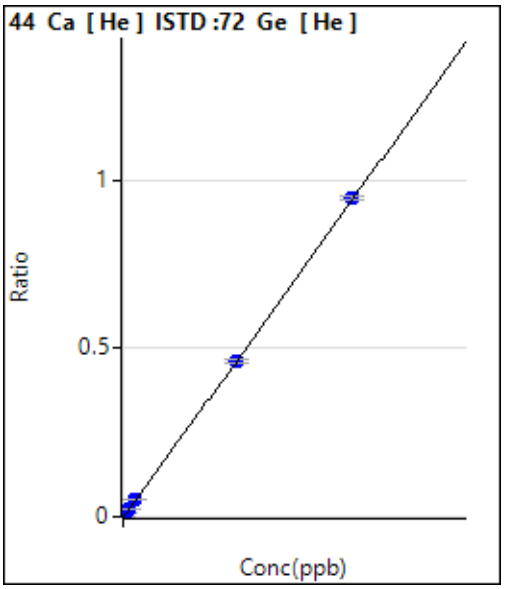
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 14494.46 | 0.0045 | P | 4.3 | |
| 2 | ☐ | 200.000 | 200.337 | 140270.25 | 0.0444 | P | 2.4 | 0.2 |
| 3 | ☐ | 500.000 | 507.777 | 332481.09 | 0.1056 | P | 0.6 | 1.6 |
| 4 | ☐ | 1000.000 | 1006.655 | 636451.71 | 0.2050 | P | 2.2 | 0.7 |
| 5 | ☐ | 10000.00 | 9964.434 | 5813409.08 | 1.9888 | A | 2.3 | -0.4 |
| 6 | ☐ | 20000.00 | 20017.25 | 11326121.50 | 3.9906 | A | 0.8 | 0.1 |

y = 1.9913E-004 * x + 0.0045
R = 1.0000
DL = 2.901 ppb
BEC = 22.73 ppb

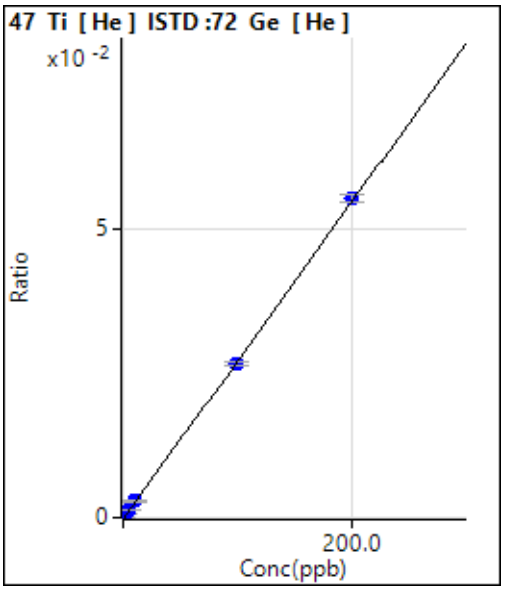
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 540.02 | 0.0006 | P | 8.4 | |
| 2 | ☐ | 200.000 | 208.198 | 9313.30 | 0.0104 | P | 4.7 | 4.1 |
| 3 | ☐ | 500.000 | 518.641 | 22344.87 | 0.0251 | P | 1.0 | 3.7 |
| 4 | ☐ | 1000.000 | 1037.980 | 43962.90 | 0.0496 | P | 1.1 | 3.8 |
| 5 | ☐ | 10000.00 | 9841.519 | 392702.03 | 0.4649 | P | 2.5 | -1.6 |
| 6 | ☐ | 20000.00 | 20076.79 | 784428.27 | 0.9478 | P | 1.6 | 0.4 |

y = 4.7181E-005 * x + 5.9318E-004
R = 1.0000
DL = 3.165 ppb
BEC = 12.57 ppb

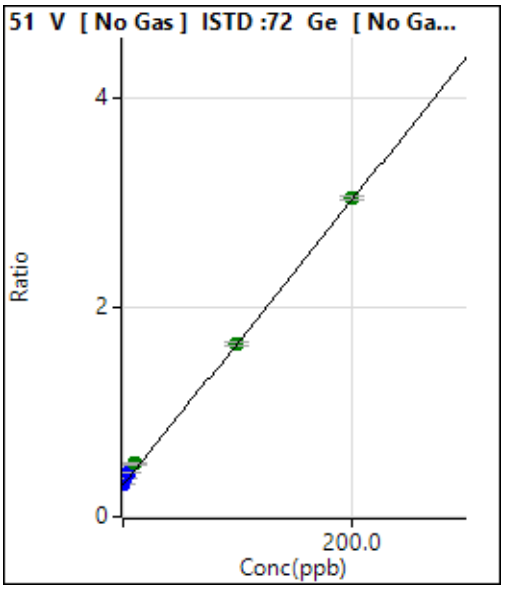
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 20.00 | 0.0000 | P | 131.8 | |
| 2 | ☐ | 2.000 | 2.028 | 516.69 | 0.0006 | P | 22.3 | 1.4 |
| 3 | ☐ | 5.000 | 5.244 | 1300.08 | 0.0015 | P | 3.2 | 4.9 |
| 4 | ☐ | 10.000 | 10.510 | 2573.61 | 0.0029 | P | 5.5 | 5.1 |
| 5 | ☐ | 100.000 | 97.093 | 22481.76 | 0.0266 | P | 1.9 | -2.9 |
| 6 | ☐ | 200.000 | 201.422 | 45681.99 | 0.0552 | P | 2.2 | 0.7 |

y = 2.7394E-004 * x + 2.1792E-005
R = 0.9998
DL = 0.3144 ppb
BEC = 0.07955 ppb

Weight: <None>
Min Conc: <None>

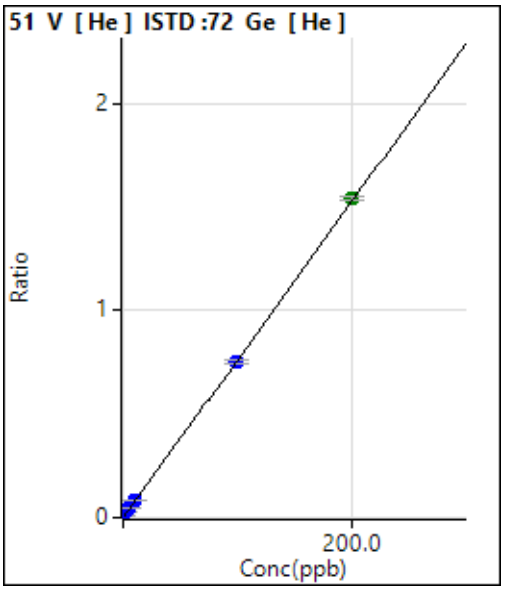



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1018079.73 | 0.3179 | P | 1.4 | |
| 2 | ☐ | 2.000 | 3.778 | 1166138.53 | 0.3693 | P | 2.1 | 88.9 |
| 3 | ☐ | 5.000 | 7.773 | 1333491.52 | 0.4237 | P | 0.4 | 55.5 |
| 4 | ☐ | 10.000 | 13.855 | 1572670.43 | 0.5065 | A | 0.7 | 38.5 |
| 5 | ☐ | 100.000 | 98.242 | 4838831.74 | 1.6554 | A | 2.6 | -1.8 |
| 6 | ☐ | 200.000 | 200.599 | 8653737.82 | 3.0489 | A | 1.3 | 0.3 |

y = 0.0136 * x + 0.3179
R = 0.9998
DL = 0.9588 ppb
BEC = 23.35 ppb

Weight: <None>
Min Conc: <None>

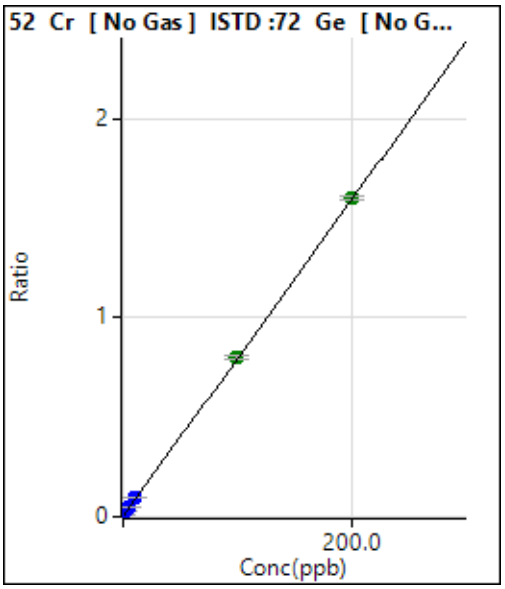
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7188.57 | 0.0079 | P | 3.0 | |
| 2 | ☐ | 2.000 | 2.105 | 21412.09 | 0.0240 | P | 1.9 | 5.2 |
| 3 | ☐ | 5.000 | 5.176 | 42231.83 | 0.0474 | P | 1.2 | 3.5 |
| 4 | ☐ | 10.000 | 10.380 | 77209.09 | 0.0871 | P | 1.9 | 3.8 |
| 5 | ☐ | 100.000 | 97.703 | 635979.16 | 0.7530 | P | 1.6 | -2.3 |
| 6 | ☐ | 200.000 | 201.124 | 1275843.00 | 1.5416 | A | 1.3 | 0.6 |

y = 0.0076 * x + 0.0079
R = 0.9999
DL = 0.09368 ppb
BEC = 1.036 ppb

Weight: <None>
Min Conc: <None>

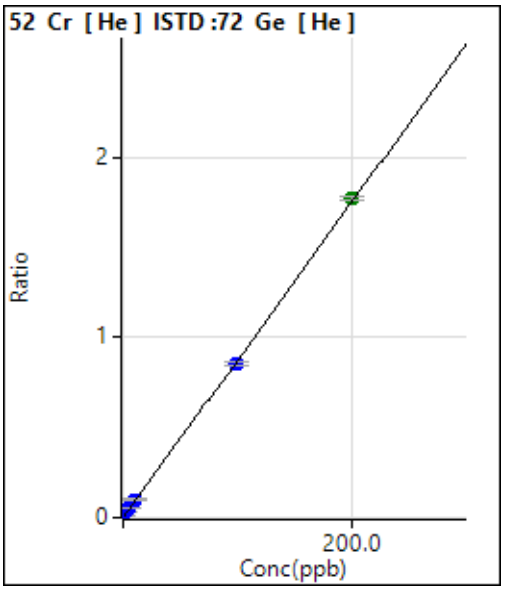



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 33200.11 | 0.0104 | P | 2.7 | |
| 2 | ☐ | 2.000 | 2.106 | 85613.60 | 0.0271 | P | 1.9 | 5.3 |
| 3 | ☐ | 5.000 | 5.218 | 163205.14 | 0.0519 | P | 0.8 | 4.4 |
| 4 | ☐ | 10.000 | 10.411 | 289233.68 | 0.0931 | P | 0.8 | 4.1 |
| 5 | ☐ | 100.000 | 99.596 | 2345265.69 | 0.8023 | A | 2.3 | -0.4 |
| 6 | ☐ | 200.000 | 200.175 | 4547211.81 | 1.6021 | A | 1.1 | 0.1 |

y = 0.0080 * x + 0.0104
R = 1.0000
DL = 0.107 ppb
BEC = 1.303 ppb

Weight: <None>
Min Conc: <None>

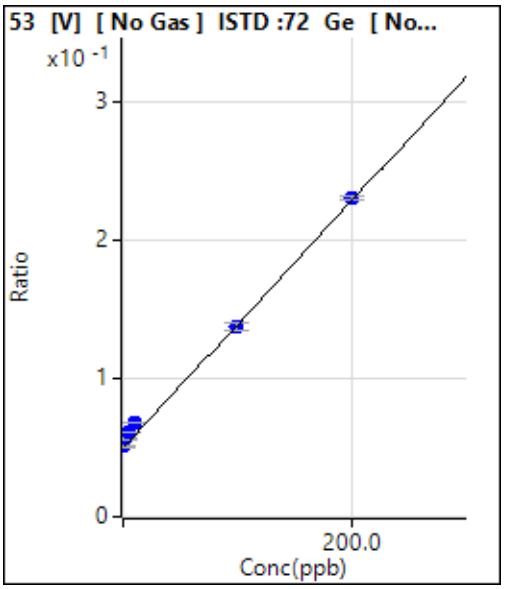
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 8606.19 | 0.0095 | P | 5.5 | |
| 2 | ☐ | 2.000 | 2.108 | 24969.48 | 0.0279 | P | 0.8 | 5.4 |
| 3 | ☐ | 5.000 | 5.221 | 49204.36 | 0.0552 | P | 1.2 | 4.4 |
| 4 | ☐ | 10.000 | 10.373 | 88964.69 | 0.1003 | P | 2.6 | 3.7 |
| 5 | ☐ | 100.000 | 96.923 | 725015.46 | 0.8584 | P | 2.3 | -3.1 |
| 6 | ☐ | 200.000 | 201.513 | 1468567.27 | 1.7745 | A | 1.2 | 0.8 |

y = 0.0088 * x + 0.0095
R = 0.9998
DL = 0.179 ppb
BEC = 1.08 ppb

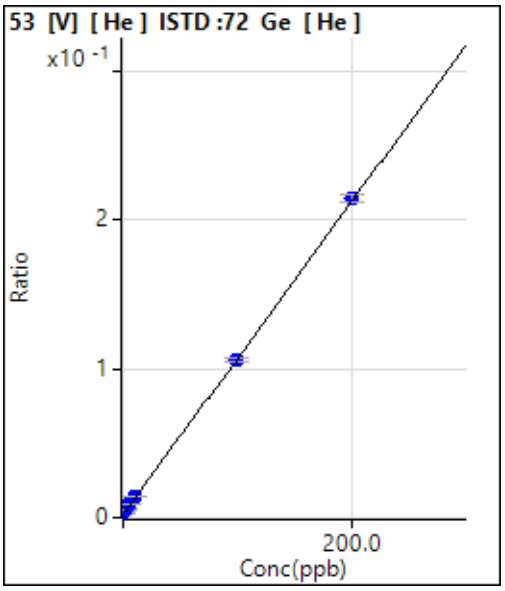
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 163672.05 | 0.0511 | P | 1.4 | |
| 2 | ☐ | 2.000 | 6.431 | 179535.20 | 0.0569 | P | 2.4 | 221.6 |
| 3 | ☐ | 5.000 | 11.260 | 192547.54 | 0.0612 | P | 0.9 | 125.2 |
| 4 | ☐ | 10.000 | 18.837 | 211016.24 | 0.0680 | P | 1.3 | 88.4 |
| 5 | ☐ | 100.000 | 96.639 | 402172.55 | 0.1376 | P | 3.5 | -3.4 |
| 6 | ☐ | 200.000 | 201.038 | 655717.18 | 0.2310 | P | 1.3 | 0.5 |

y = 8.9498E-004 * x + 0.0511
R = 0.9988
DL = 2.474 ppb
BEC = 57.1 ppb

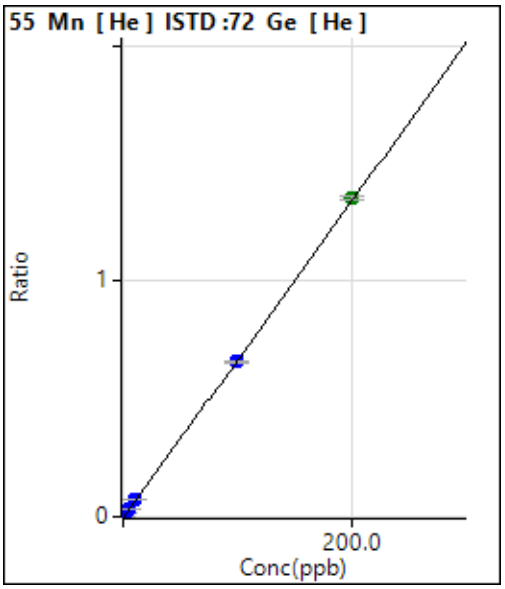
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2957.05 | 0.0032 | P | 3.6 | |
| 2 | ☐ | 2.000 | 2.381 | 5137.70 | 0.0057 | P | 3.5 | 19.1 |
| 3 | ☐ | 5.000 | 5.644 | 8175.86 | 0.0092 | P | 2.1 | 12.9 |
| 4 | ☐ | 10.000 | 10.433 | 12589.26 | 0.0142 | P | 2.2 | 4.3 |
| 5 | ☐ | 100.000 | 97.703 | 89316.86 | 0.1057 | P | 2.0 | -2.3 |
| 6 | ☐ | 200.000 | 201.107 | 177284.23 | 0.2142 | P | 2.1 | 0.6 |

y = 0.0010 * x + 0.0032
R = 0.9999
DL = 0.3304 ppb
BEC = 3.098 ppb

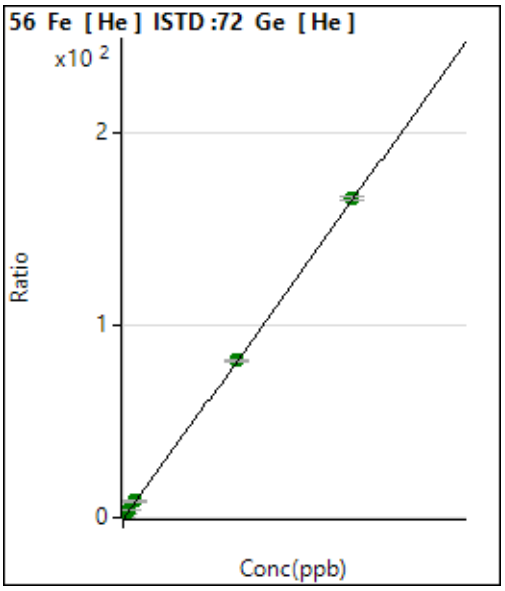
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 573.36 | 0.0006 | P | 19.3 | |
| 2 | ☐ | 2.000 | 2.015 | 12682.70 | 0.0142 | P | 2.3 | 0.8 |
| 3 | ☐ | 5.000 | 5.140 | 31392.63 | 0.0352 | P | 3.3 | 2.8 |
| 4 | ☐ | 10.000 | 10.327 | 62190.07 | 0.0701 | P | 0.7 | 3.3 |
| 5 | ☐ | 100.000 | 97.662 | 555570.75 | 0.6577 | P | 1.2 | -2.3 |
| 6 | ☐ | 200.000 | 201.149 | 1120604.20 | 1.3540 | A | 1.2 | 0.6 |

y = 0.0067 * x + 6.3008E-004
R = 0.9999
DL = 0.05416 ppb
BEC = 0.09364 ppb

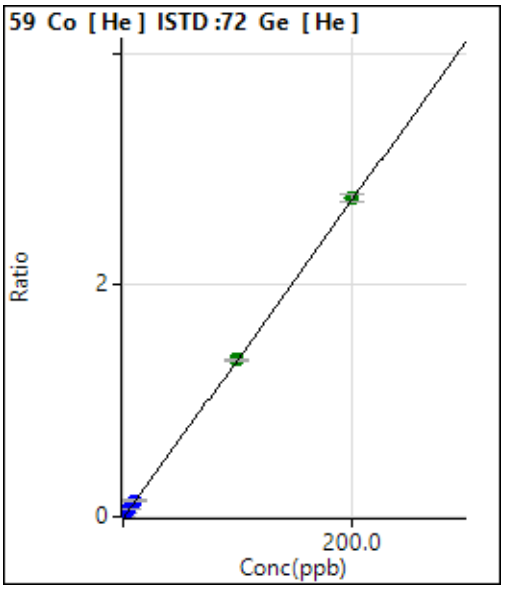
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 13917.24 | 0.0153 | P | 6.6 | |
| 2 | ☐ | 200.000 | 202.456 | 1513401.96 | 1.6928 | A | 1.4 | 1.2 |
| 3 | ☐ | 500.000 | 513.734 | 3808640.57 | 4.2720 | A | 2.1 | 2.7 |
| 4 | ☐ | 1000.000 | 1029.717 | 7580831.97 | 8.5474 | A | 1.7 | 3.0 |
| 5 | ☐ | 10000.00 | 9854.683 | 68980232.30 | 81.6696 | A | 1.8 | -1.5 |
| 6 | ☐ | 20000.00 | 20070.80 | 137644121.2 | 166.318 | A | 1.1 | 0.4 |

y = 0.0083 * x + 0.0153
R = 1.0000
DL = 0.3674 ppb
BEC = 1.846 ppb

Weight: <None>
Min Conc: <None>

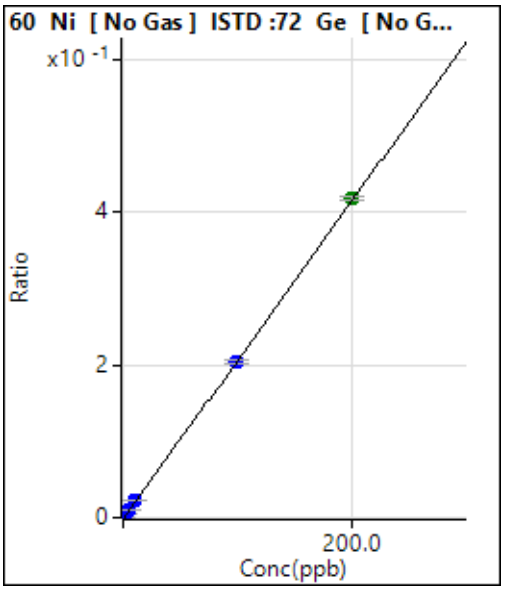



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 140.00 | 0.0002 | P | 1.0 | |
| 2 | ☐ | 2.000 | 2.058 | 25370.40 | 0.0284 | P | 2.7 | 2.9 |
| 3 | ☐ | 5.000 | 5.115 | 62675.71 | 0.0703 | P | 2.6 | 2.3 |
| 4 | ☐ | 10.000 | 10.214 | 124376.65 | 0.1402 | P | 1.2 | 2.1 |
| 5 | ☐ | 100.000 | 98.604 | 1142339.23 | 1.3525 | A | 1.9 | -1.4 |
| 6 | ☐ | 200.000 | 200.684 | 2277939.65 | 2.7525 | A | 1.8 | 0.3 |

y = 0.0137 * x + 1.5386E-004
R = 1.0000
DL = 0.000332 ppb
BEC = 0.01122 ppb

Weight: <None>
Min Conc: <None>

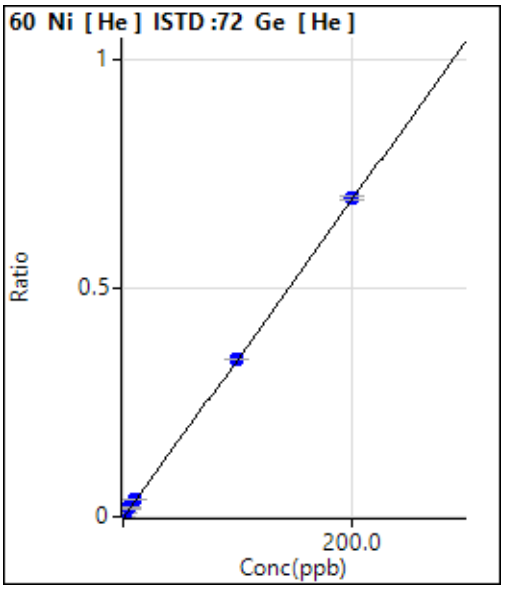
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 716.70 | 0.0002 | P | 18.9 | |
| 2 | ☐ | 2.000 | 2.082 | 14371.02 | 0.0046 | P | 2.0 | 4.1 |
| 3 | ☐ | 5.000 | 5.200 | 34720.64 | 0.0110 | P | 1.4 | 4.0 |
| 4 | ☐ | 10.000 | 10.342 | 67438.31 | 0.0217 | P | 1.3 | 3.4 |
| 5 | ☐ | 100.000 | 98.240 | 597502.93 | 0.2044 | P | 2.5 | -1.8 |
| 6 | ☐ | 200.000 | 200.857 | 1185512.66 | 0.4177 | A | 1.5 | 0.4 |

y = 0.0021 * x + 2.2409E-004
R = 0.9999
DL = 0.06123 ppb
BEC = 0.1078 ppb

Weight: <None>
Min Conc: <None>

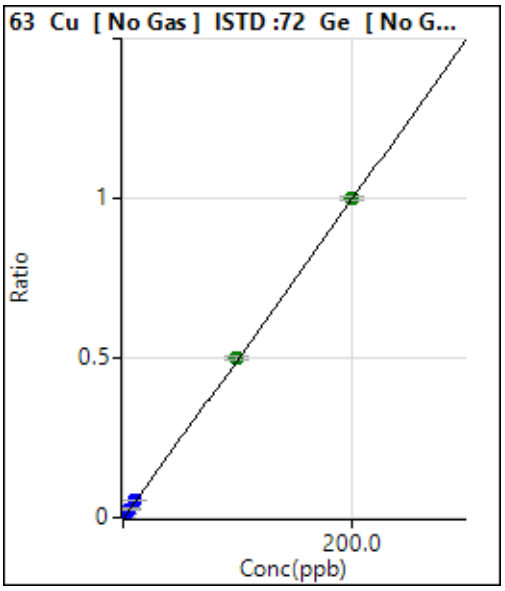



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 253.34 | 0.0003 | P | 18.5 | |
| 2 | ☐ | 2.000 | 2.070 | 6681.75 | 0.0075 | P | 3.3 | 3.5 |
| 3 | ☐ | 5.000 | 5.377 | 16907.25 | 0.0190 | P | 2.5 | 7.5 |
| 4 | ☐ | 10.000 | 10.447 | 32451.88 | 0.0366 | P | 1.2 | 4.5 |
| 5 | ☐ | 100.000 | 99.049 | 290973.23 | 0.3445 | P | 0.9 | -1.0 |
| 6 | ☐ | 200.000 | 200.443 | 576705.58 | 0.6969 | P | 1.5 | 0.2 |

y = 0.0035 * x + 2.7833E-004
R = 1.0000
DL = 0.04443 ppb
BEC = 0.08009 ppb

Weight: <None>
Min Conc: <None>

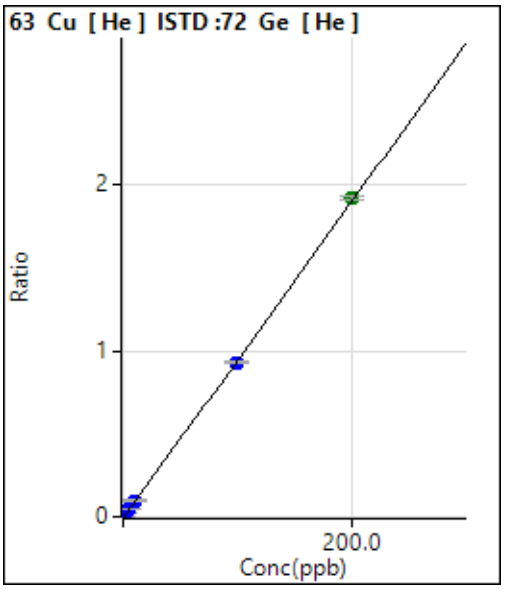
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1356.76 | 0.0004 | P | 5.2 | |
| 2 | ☐ | 2.000 | 2.132 | 35058.40 | 0.0111 | P | 1.4 | 6.6 |
| 3 | ☐ | 5.000 | 5.294 | 84773.26 | 0.0269 | P | 1.8 | 5.9 |
| 4 | ☐ | 10.000 | 10.551 | 165387.54 | 0.0533 | P | 1.5 | 5.5 |
| 5 | ☐ | 100.000 | 100.041 | 1465716.18 | 0.5014 | A | 2.4 | 0.0 |
| 6 | ☐ | 200.000 | 199.943 | 2843077.67 | 1.0017 | A | 0.7 | 0.0 |

y = 0.0050 * x + 4.2345E-004
R = 1.0000
DL = 0.01324 ppb
BEC = 0.08456 ppb

Weight: <None>
Min Conc: <None>

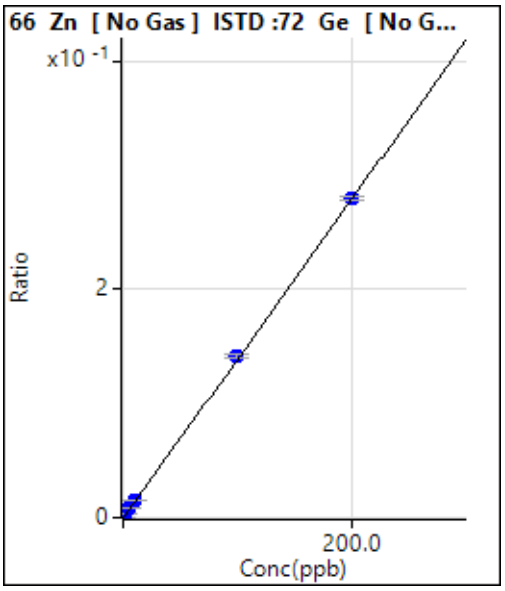



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 666.70 | 0.0007 | P | 3.7 | |
| 2 | ☐ | 2.000 | 1.979 | 17531.45 | 0.0196 | P | 2.9 | -1.0 |
| 3 | ☐ | 5.000 | 5.215 | 44993.69 | 0.0505 | P | 2.5 | 4.3 |
| 4 | ☐ | 10.000 | 10.215 | 87034.76 | 0.0981 | P | 1.4 | 2.1 |
| 5 | ☐ | 100.000 | 97.300 | 784298.66 | 0.9285 | P | 1.8 | -2.7 |
| 6 | ☐ | 200.000 | 201.334 | 1589430.23 | 1.9206 | A | 1.6 | 0.7 |

y = 0.0095 * x + 7.3251E-004
R = 0.9999
DL = 0.008422 ppb
BEC = 0.07682 ppb

Weight: <None>
Min Conc: <None>

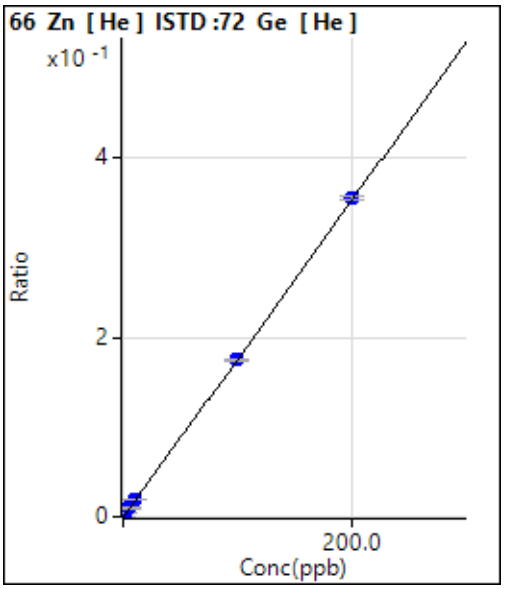
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2570.30 | 0.0008 | P | 8.7 | |
| 2 | ☐ | 2.000 | 2.044 | 11548.38 | 0.0037 | P | 3.8 | 2.2 |
| 3 | ☐ | 5.000 | 5.100 | 24939.64 | 0.0079 | P | 2.7 | 2.0 |
| 4 | ☐ | 10.000 | 10.247 | 46930.36 | 0.0151 | P | 1.7 | 2.5 |
| 5 | ☐ | 100.000 | 100.603 | 413049.12 | 0.1413 | P | 2.2 | 0.6 |
| 6 | ☐ | 200.000 | 199.683 | 793766.68 | 0.2797 | P | 0.7 | -0.2 |

y = 0.0014 * x + 8.0210E-004
R = 1.0000
DL = 0.1494 ppb
BEC = 0.5743 ppb

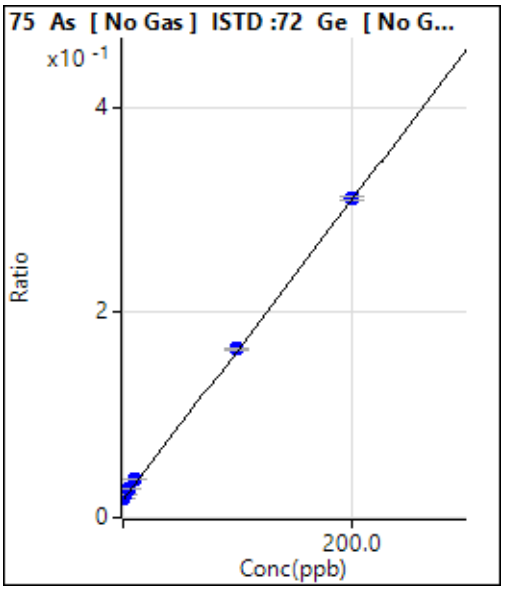
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 860.04 | 0.0009 | P | 6.9 | |
| 2 | ☐ | 2.000 | 2.186 | 4297.42 | 0.0048 | P | 3.8 | 9.3 |
| 3 | ☐ | 5.000 | 5.096 | 8873.06 | 0.0100 | P | 7.0 | 1.9 |
| 4 | ☐ | 10.000 | 10.494 | 17287.87 | 0.0195 | P | 3.0 | 4.9 |
| 5 | ☐ | 100.000 | 98.530 | 147869.38 | 0.1751 | P | 1.0 | -1.5 |
| 6 | ☐ | 200.000 | 200.706 | 294330.44 | 0.3556 | P | 0.7 | 0.4 |

y = 0.0018 * x + 9.4483E-004
R = 1.0000
DL = 0.1099 ppb
BEC = 0.5346 ppb

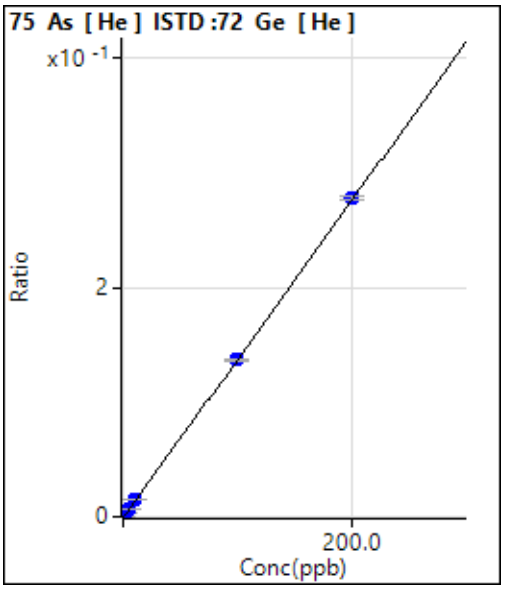
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 60708.39 | 0.0190 | P | 2.6 | |
| 2 | ☐ | 2.000 | 2.598 | 71828.87 | 0.0227 | P | 0.6 | 29.9 |
| 3 | ☐ | 5.000 | 6.410 | 89100.17 | 0.0283 | P | 2.8 | 28.2 |
| 4 | ☐ | 10.000 | 12.372 | 114911.74 | 0.0370 | P | 1.6 | 23.7 |
| 5 | ☐ | 100.000 | 99.405 | 479468.57 | 0.1640 | P | 1.3 | -0.6 |
| 6 | ☐ | 200.000 | 200.138 | 882747.18 | 0.3110 | P | 0.6 | 0.1 |

y = 0.0015 * x + 0.0190
R = 0.9999
DL = 1.024 ppb
BEC = 12.99 ppb

Weight: <None>
Min Conc: <None>

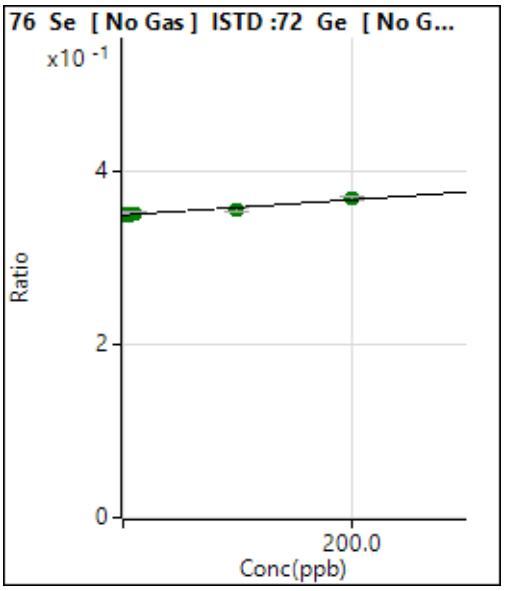



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 337.79 | 0.0004 | P | 8.6 | |
| 2 | ☐ | 2.000 | 2.000 | 2804.75 | 0.0031 | P | 1.0 | 0.0 |
| 3 | ☐ | 5.000 | 5.030 | 6532.70 | 0.0073 | P | 2.3 | 0.6 |
| 4 | ☐ | 10.000 | 10.255 | 12908.38 | 0.0146 | P | 3.4 | 2.6 |
| 5 | ☐ | 100.000 | 98.509 | 115384.20 | 0.1366 | P | 1.1 | -1.5 |
| 6 | ☐ | 200.000 | 200.732 | 230052.21 | 0.2780 | P | 1.8 | 0.4 |

y = 0.0014 * x + 3.7101E-004
R = 1.0000
DL = 0.06928 ppb
BEC = 0.2683 ppb

Weight: <None>
Min Conc: <None>

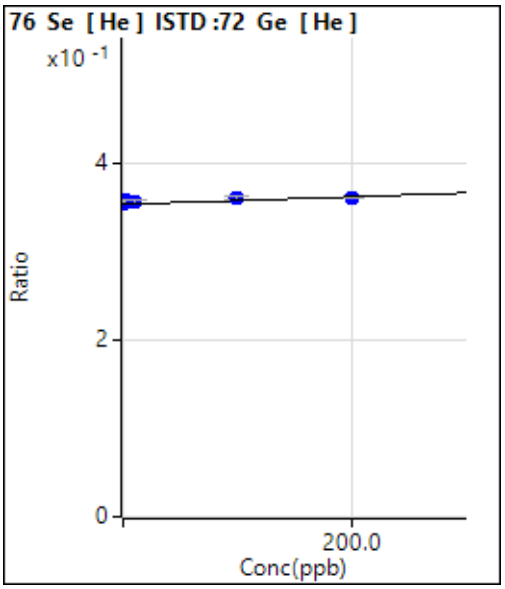
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1118509.59 | 0.3493 | A | 1.4 | |
| 2 | ☐ | 2.000 | 12.133 | 1106346.75 | 0.3503 | A | 0.8 | 506.6 |
| 3 | ☐ | 5.000 | 0.824 | 1099450.53 | 0.3493 | A | 0.7 | -83.5 |
| 4 | ☐ | 10.000 | 24.917 | 1091361.00 | 0.3515 | A | 0.3 | 149.2 |
| 5 | ☐ | 100.000 | 64.453 | 1037787.59 | 0.3550 | A | 0.8 | -35.5 |
| 6 | ☐ | 200.000 | 217.030 | 1046044.54 | 0.3686 | A | 1.1 | 8.5 |

y = 8.9069E-005 * x + 0.3493
R = 0.9726
DL = 167.3 ppb
BEC = 3921 ppb

Weight: <None>
Min Conc: <None>

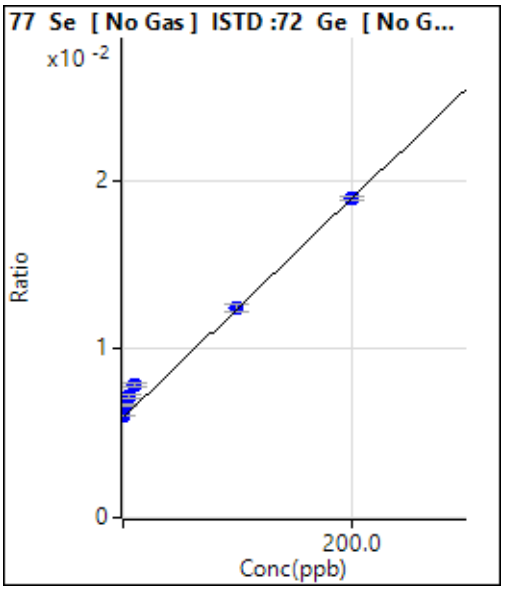



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 322418.73 | 0.3543 | P | 0.5 | |
| 2 | ☐ | 2.000 | 139.317 | 322219.10 | 0.3604 | P | 0.9 | 6865.9 |
| 3 | ☐ | 5.000 | 43.896 | 317604.81 | 0.3563 | P | 0.9 | 777.9 |
| 4 | ☐ | 10.000 | 68.077 | 316915.15 | 0.3573 | P | 0.9 | 580.8 |
| 5 | ☐ | 100.000 | 166.546 | 305469.74 | 0.3616 | P | 0.7 | 66.5 |
| 6 | ☐ | 200.000 | 161.478 | 299090.93 | 0.3614 | P | 0.2 | -19.3 |

y = 4.3755E-005 * x + 0.3543
R = 0.6919
DL = 127.2 ppb
BEC = 8098 ppb

Weight: <None>
Min Conc: <None>

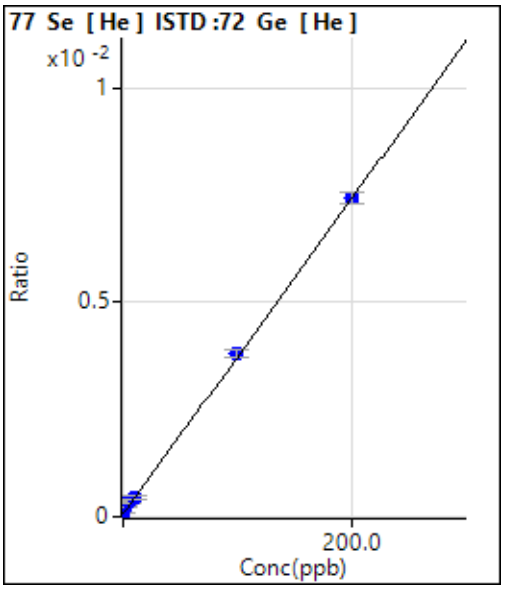
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 19317.30 | 0.0060 | P | 1.1 | |
| 2 | ☐ | 2.000 | 10.210 | 21140.06 | 0.0067 | P | 2.6 | 410.5 |
| 3 | ☐ | 5.000 | 17.731 | 22602.34 | 0.0072 | P | 1.9 | 254.6 |
| 4 | ☐ | 10.000 | 28.389 | 24442.31 | 0.0079 | P | 4.1 | 183.9 |
| 5 | ☐ | 100.000 | 99.362 | 36472.38 | 0.0125 | P | 3.9 | -0.6 |
| 6 | ☐ | 200.000 | 198.999 | 53752.78 | 0.0189 | P | 0.7 | -0.5 |

y = 6.4861E-005 * x + 0.0060
R = 0.9964
DL = 3.01 ppb
BEC = 92.99 ppb

Weight: <None>
Min Conc: <None>

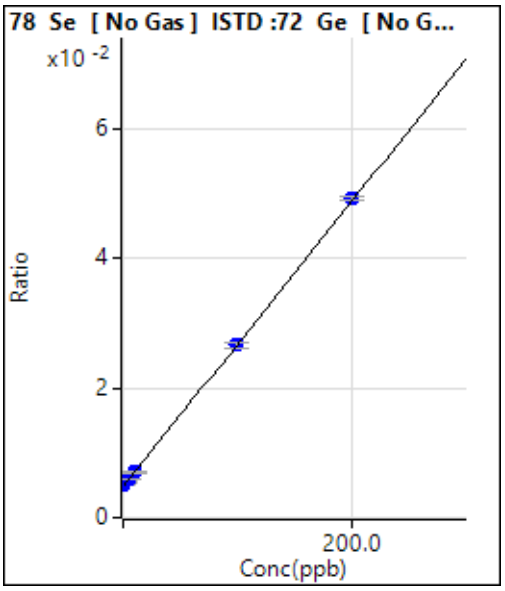



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 86.67 | 0.0001 | P | 24.7 | |
| 2 | ☐ | 2.000 | 3.797 | 210.00 | 0.0002 | P | 20.8 | 89.9 |
| 3 | ☐ | 5.000 | 6.663 | 303.34 | 0.0003 | P | 5.1 | 33.3 |
| 4 | ☐ | 10.000 | 9.176 | 383.35 | 0.0004 | P | 18.2 | -8.2 |
| 5 | ☐ | 100.000 | 100.943 | 3213.77 | 0.0038 | P | 4.5 | 0.9 |
| 6 | ☐ | 200.000 | 199.510 | 6148.15 | 0.0074 | P | 3.1 | -0.2 |

y = 3.6757E-005 * x + 9.5352E-005
R = 0.9999
DL = 1.92 ppb
BEC = 2.594 ppb

Weight: <None>
Min Conc: <None>

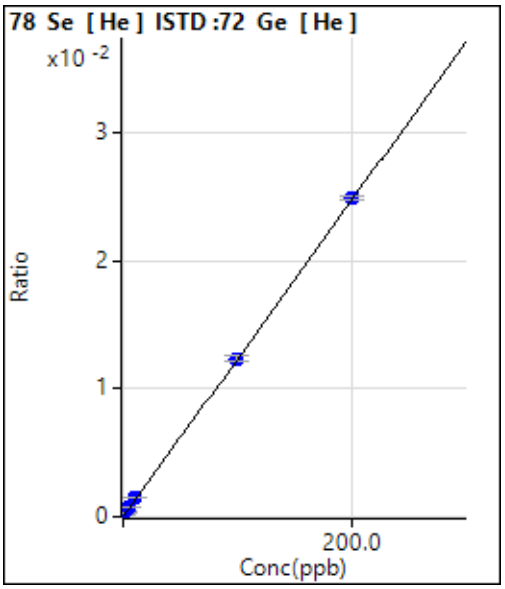
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 16203.21 | 0.0051 | P | 4.0 | |
| 2 | ☐ | 2.000 | 1.943 | 17327.91 | 0.0055 | P | 1.1 | -2.8 |
| 3 | ☐ | 5.000 | 4.075 | 18743.22 | 0.0060 | P | 2.7 | -18.5 |
| 4 | ☐ | 10.000 | 9.213 | 21994.62 | 0.0071 | P | 3.5 | -7.9 |
| 5 | ☐ | 100.000 | 97.880 | 77606.98 | 0.0266 | P | 3.2 | -2.1 |
| 6 | ☐ | 200.000 | 201.123 | 139684.29 | 0.0492 | P | 1.7 | 0.6 |

y = 2.1956E-004 * x + 0.0051
R = 0.9999
DL = 2.789 ppb
BEC = 23.05 ppb

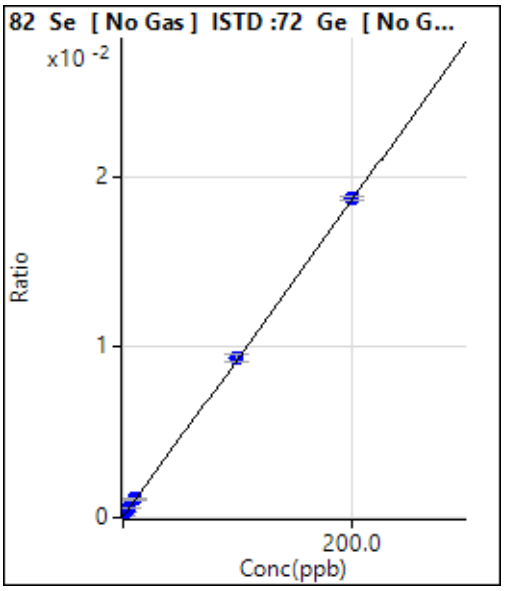
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 106.67 | 0.0001 | P | 19.6 | |
| 2 | ☐ | 2.000 | 2.100 | 337.34 | 0.0004 | P | 9.3 | 5.0 |
| 3 | ☐ | 5.000 | 4.946 | 650.68 | 0.0007 | P | 11.0 | -1.1 |
| 4 | ☐ | 10.000 | 10.974 | 1310.07 | 0.0015 | P | 2.5 | 9.7 |
| 5 | ☐ | 100.000 | 98.929 | 10450.69 | 0.0124 | P | 3.7 | -1.1 |
| 6 | ☐ | 200.000 | 200.487 | 20652.28 | 0.0250 | P | 1.6 | 0.2 |

y = 1.2388E-004 * x + 1.1736E-004
R = 1.0000
DL = 0.5562 ppb
BEC = 0.9473 ppb

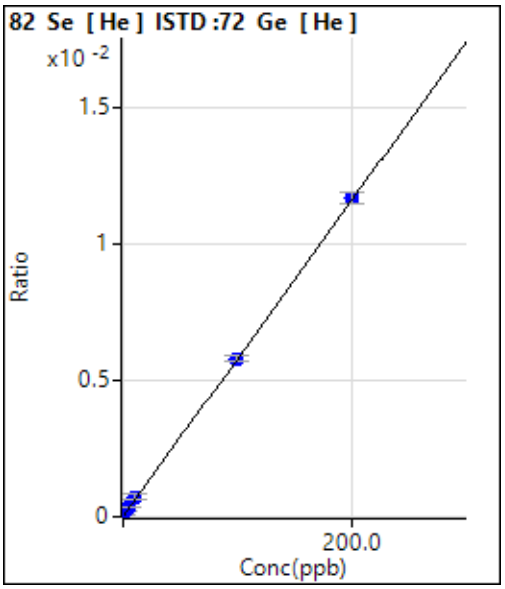
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 416.68 | 0.0001 | P | 23.2 | |
| 2 | ☐ | 2.000 | 2.166 | 1046.73 | 0.0003 | P | 9.8 | 8.3 |
| 3 | ☐ | 5.000 | 4.748 | 1796.82 | 0.0006 | P | 4.9 | -5.0 |
| 4 | ☐ | 10.000 | 10.192 | 3340.47 | 0.0011 | P | 4.7 | 1.9 |
| 5 | ☐ | 100.000 | 99.356 | 27327.86 | 0.0093 | P | 5.2 | -0.6 |
| 6 | ☐ | 200.000 | 200.317 | 53124.22 | 0.0187 | P | 0.7 | 0.2 |

y = 9.2789E-005 * x + 1.3032E-004
R = 1.0000
DL = 0.979 ppb
BEC = 1.405 ppb

Weight: <None>
Min Conc: <None>

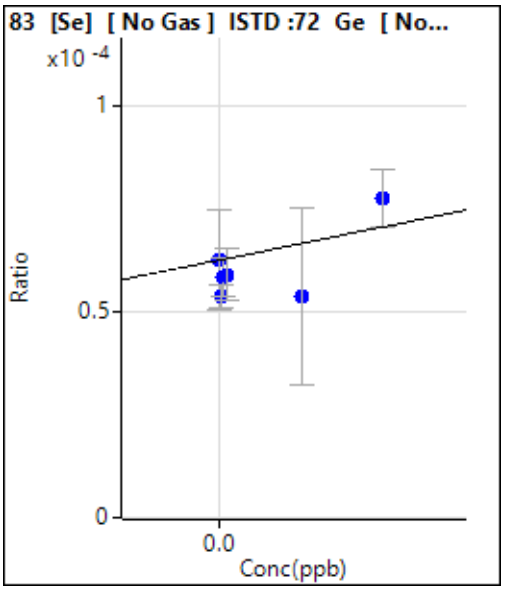



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 66.67 | 0.0001 | P | 34.3 | |
| 2 | ☐ | 2.000 | 2.080 | 173.34 | 0.0002 | P | 16.9 | 4.0 |
| 3 | ☐ | 5.000 | 4.544 | 300.01 | 0.0003 | P | 8.4 | -9.1 |
| 4 | ☐ | 10.000 | 11.047 | 633.36 | 0.0007 | P | 31.4 | 10.5 |
| 5 | ☐ | 100.000 | 98.808 | 4897.65 | 0.0058 | P | 4.2 | -1.2 |
| 6 | ☐ | 200.000 | 200.554 | 9676.94 | 0.0117 | P | 3.6 | 0.3 |

y = 5.7936E-005 * x + 7.3188E-005
R = 1.0000
DL = 1.3 ppb
BEC = 1.263 ppb

Weight: <None>
Min Conc: <None>

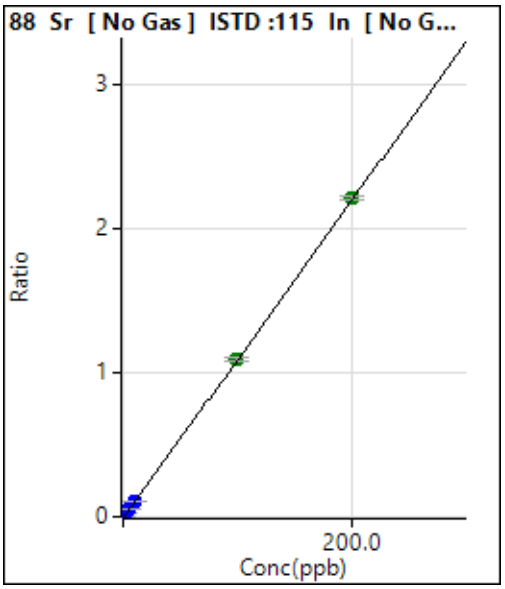
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 200.01 | 0.0001 | P | 38.2 | |
| 2 | ☐ | 2.000 | -215.533 | 170.00 | 0.0001 | P | 10.2 | -10876. |
| 3 | ☐ | 5.000 | -106.649 | 183.34 | 0.0001 | P | 16.5 | -2233.0 |
| 4 | ☐ | 10.000 | -88.045 | 183.34 | 0.0001 | P | 21.4 | -980.4 |
| 5 | ☐ | 100.000 | -217.110 | 156.67 | 0.0001 | P | 80.0 | -317.1 |
| 6 | ☐ | 200.000 | 368.424 | 220.01 | 0.0001 | P | 17.5 | 84.2 |

y = 4.0452E-008 * x + 6.2553E-005
R = 0.7170
DL = 1772 ppb
BEC = 1546 ppb

Weight: <None>
Min Conc: <None>

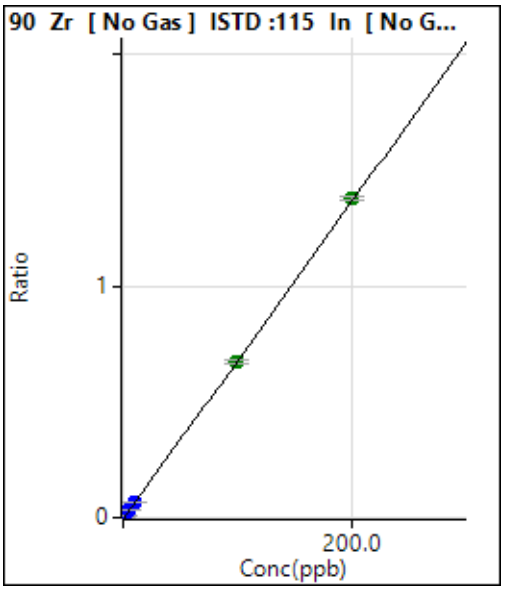



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2043.52 | 0.0005 | P | 14.3 | |
| 2 | ☐ | 2.000 | 2.046 | 100806.95 | 0.0231 | P | 1.8 | 2.3 |
| 3 | ☐ | 5.000 | 5.108 | 246714.32 | 0.0569 | P | 1.8 | 2.2 |
| 4 | ☐ | 10.000 | 10.128 | 483170.04 | 0.1123 | P | 1.9 | 1.3 |
| 5 | ☐ | 100.000 | 98.543 | 4446349.20 | 1.0885 | A | 2.4 | -1.5 |
| 6 | ☐ | 200.000 | 200.719 | 8796152.37 | 2.2165 | A | 1.6 | 0.4 |

y = 0.0110 * x + 4.6204E-004
R = 1.0000
DL = 0.01796 ppb
BEC = 0.04185 ppb

Weight: <None>
Min Conc: <None>

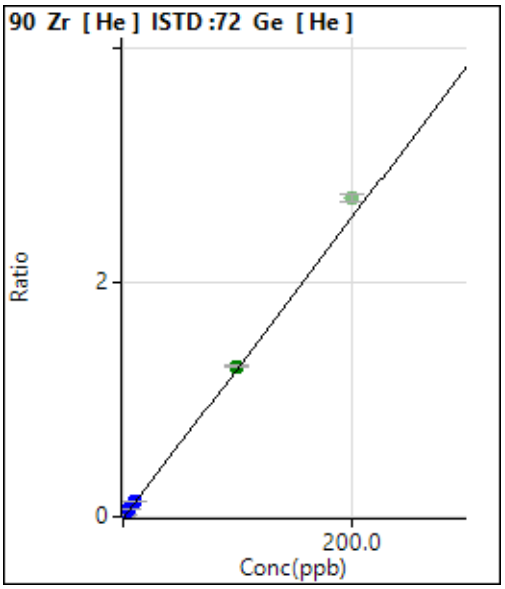
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1110.06 | 0.0003 | P | 6.6 | |
| 2 | ☐ | 2.000 | 1.664 | 50989.75 | 0.0117 | P | 1.1 | -16.8 |
| 3 | ☐ | 5.000 | 4.402 | 132064.15 | 0.0304 | P | 1.7 | -12.0 |
| 4 | ☐ | 10.000 | 9.338 | 276603.98 | 0.0643 | P | 1.2 | -6.6 |
| 5 | ☐ | 100.000 | 97.711 | 2737978.50 | 0.6703 | A | 2.3 | -2.3 |
| 6 | ☐ | 200.000 | 201.196 | 5475859.50 | 1.3798 | A | 1.3 | 0.6 |

y = 0.0069 * x + 2.5083E-004
R = 0.9999
DL = 0.007227 ppb
BEC = 0.03658 ppb

Weight: <None>
Min Conc: <None>

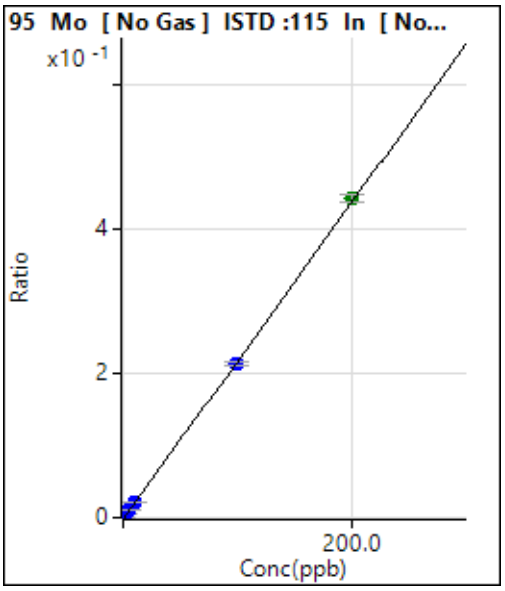



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1546.78 | 0.0017 | P | 7.0 | |
| 2 | ☐ | 2.000 | 1.699 | 20966.50 | 0.0235 | P | 3.5 | -15.0 |
| 3 | ☐ | 5.000 | 4.603 | 54058.52 | 0.0606 | P | 2.8 | -7.9 |
| 4 | ☐ | 10.000 | 9.651 | 111097.16 | 0.1253 | P | 1.6 | -3.5 |
| 5 | ☐ | 100.000 | 100.061 | 1083420.84 | 1.2827 | A | 1.9 | 0.1 |
| 6 | ☑ | 200.000 | | 2248455.17 | 2.7168 | A | 2.5 | |

y = 0.0128 * x + 0.0017
R = 1.0000
DL = 0.02786 ppb
BEC = 0.1328 ppb

Weight: <None>
Min Conc: <None>

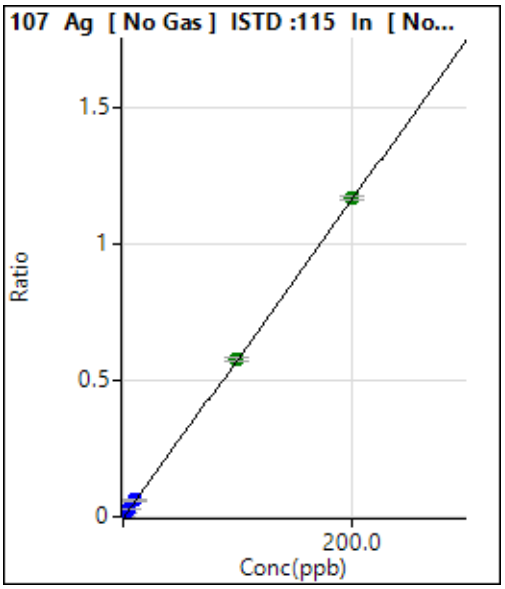
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 126.67 | 0.0000 | P | 15.8 | |
| 2 | ☐ | 2.000 | 1.938 | 18696.61 | 0.0043 | P | 3.9 | -3.1 |
| 3 | ☐ | 5.000 | 4.951 | 47206.40 | 0.0109 | P | 2.6 | -1.0 |
| 4 | ☐ | 10.000 | 9.890 | 93392.15 | 0.0217 | P | 2.5 | -1.1 |
| 5 | ☐ | 100.000 | 96.762 | 866437.20 | 0.2121 | P | 2.4 | -3.2 |
| 6 | ☐ | 200.000 | 201.626 | 1753771.80 | 0.4419 | A | 2.0 | 0.8 |

y = 0.0022 * x + 2.8607E-005
R = 0.9998
DL = 0.006193 ppb
BEC = 0.01305 ppb

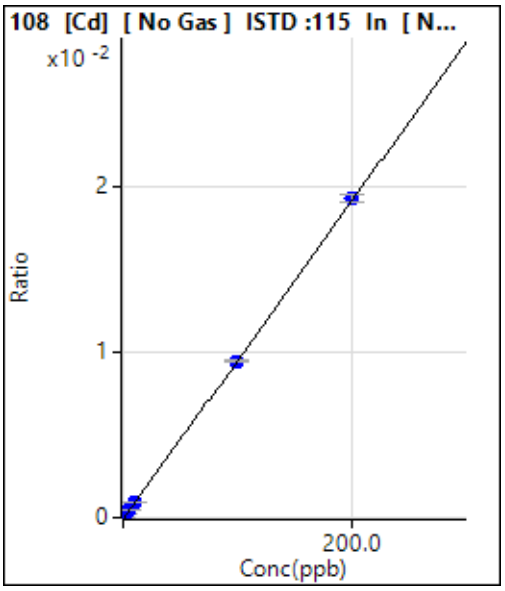
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 303.34 | 0.0001 | P | 31.9 | |
| 2 | ☐ | 2.000 | 2.098 | 53888.70 | 0.0123 | P | 2.2 | 4.9 |
| 3 | ☐ | 5.000 | 5.180 | 131578.56 | 0.0303 | P | 1.9 | 3.6 |
| 4 | ☐ | 10.000 | 10.342 | 260214.48 | 0.0605 | P | 2.0 | 3.4 |
| 5 | ☐ | 100.000 | 99.293 | 2369307.93 | 0.5800 | A | 2.0 | -0.7 |
| 6 | ☐ | 200.000 | 200.331 | 4643518.78 | 1.1701 | A | 1.4 | 0.2 |

y = 0.0058 * x + 6.8653E-005
R = 1.0000
DL = 0.01125 ppb
BEC = 0.01175 ppb

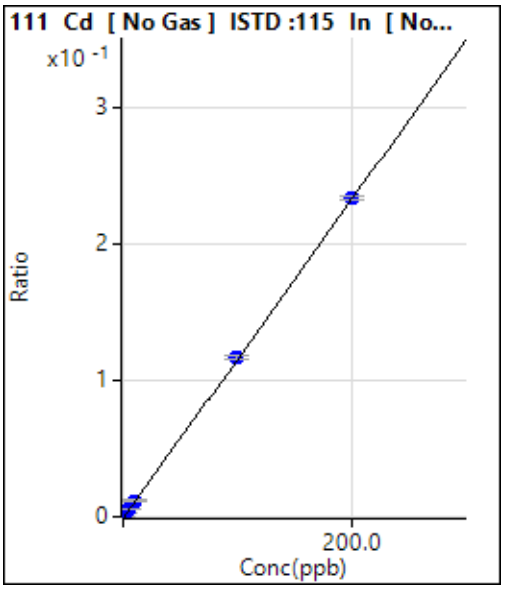
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 10.00 | 0.0000 | P | 100.2 | |
| 2 | ☐ | 2.000 | 2.102 | 893.38 | 0.0002 | P | 8.0 | 5.1 |
| 3 | ☐ | 5.000 | 4.693 | 1966.85 | 0.0005 | P | 14.7 | -6.1 |
| 4 | ☐ | 10.000 | 9.909 | 4107.37 | 0.0010 | P | 3.5 | -0.9 |
| 5 | ☐ | 100.000 | 98.249 | 38582.61 | 0.0094 | P | 0.8 | -1.8 |
| 6 | ☐ | 200.000 | 200.887 | 76619.08 | 0.0193 | P | 2.4 | 0.4 |

y = 9.6100E-005 * x + 2.2713E-006
R = 0.9999
DL = 0.07107 ppb
BEC = 0.02363 ppb

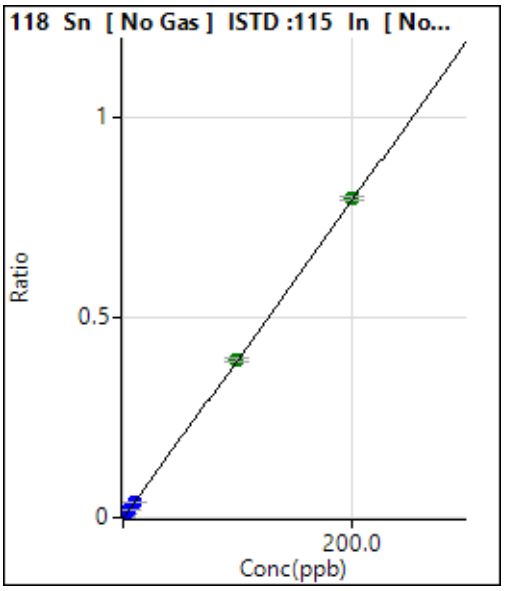
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | -7.40 | 0.0000 | P | -214. | |
| 2 | ☐ | 2.000 | 1.973 | 10099.50 | 0.0023 | P | 5.6 | -1.4 |
| 3 | ☐ | 5.000 | 5.059 | 25709.01 | 0.0059 | P | 3.3 | 1.2 |
| 4 | ☐ | 10.000 | 10.136 | 51091.88 | 0.0119 | P | 2.5 | 1.4 |
| 5 | ☐ | 100.000 | 99.931 | 478228.22 | 0.1171 | P | 1.6 | -0.1 |
| 6 | ☐ | 200.000 | 200.027 | 929935.39 | 0.2343 | P | 1.2 | 0.0 |

y = 0.0012 * x - 1.6896E-006
R = 1.0000
DL = 0.009272 ppb
BEC = -0.001442 ppb

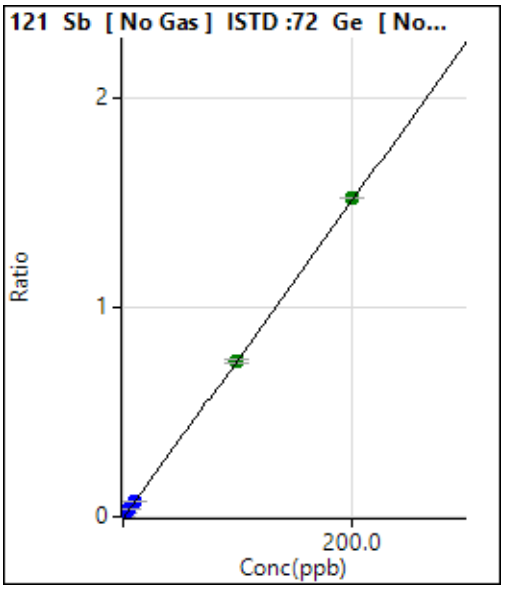
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7792.59 | 0.0018 | P | 90.4 | |
| 2 | ☐ | 2.000 | 1.722 | 37580.33 | 0.0086 | P | 1.7 | -13.9 |
| 3 | ☐ | 5.000 | 4.647 | 87664.91 | 0.0202 | P | 2.5 | -7.1 |
| 4 | ☐ | 10.000 | 9.723 | 173686.49 | 0.0404 | P | 1.5 | -2.8 |
| 5 | ☐ | 100.000 | 98.589 | 1606338.05 | 0.3932 | A | 2.6 | -1.4 |
| 6 | ☐ | 200.000 | 200.731 | 3170027.97 | 0.7988 | A | 1.2 | 0.4 |

y = 0.0040 * x + 0.0018
R = 1.0000
DL = 1.198 ppb
BEC = 0.4417 ppb

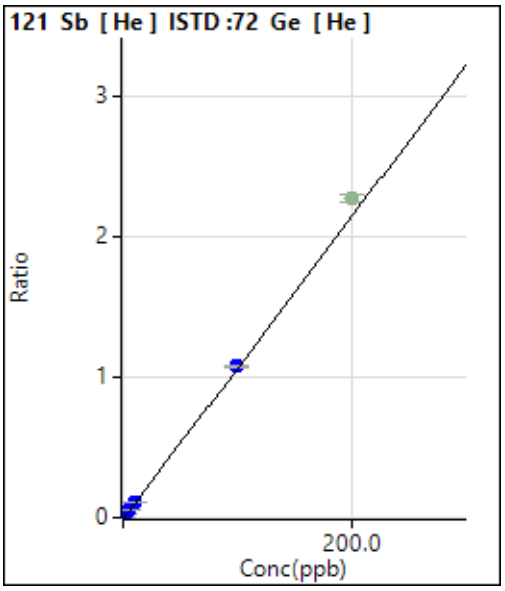
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 613.36 | 0.0002 | P | 14.2 | |
| 2 | ☐ | 2.000 | 1.914 | 46424.92 | 0.0147 | P | 1.8 | -4.3 |
| 3 | ☐ | 5.000 | 4.808 | 115324.75 | 0.0366 | P | 2.3 | -3.8 |
| 4 | ☐ | 10.000 | 9.750 | 230101.50 | 0.0741 | P | 1.4 | -2.5 |
| 5 | ☐ | 100.000 | 97.932 | 2170757.83 | 0.7426 | A | 2.6 | -2.1 |
| 6 | ☐ | 200.000 | 201.052 | 4326346.60 | 1.5244 | A | 0.5 | 0.5 |

y = 0.0076 * x + 1.9131E-004
R = 0.9999
DL = 0.01078 ppb
BEC = 0.02523 ppb

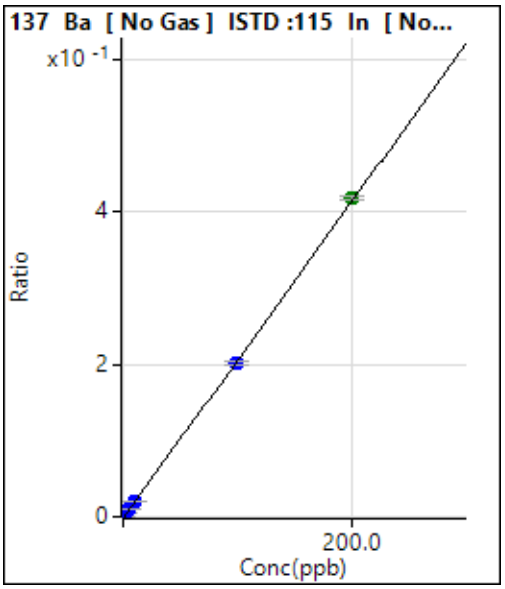
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 270.01 | 0.0003 | P | 2.9 | |
| 2 | ☐ | 2.000 | 1.985 | 19414.50 | 0.0217 | P | 2.2 | -0.7 |
| 3 | ☐ | 5.000 | 5.048 | 48830.03 | 0.0548 | P | 2.9 | 1.0 |
| 4 | ☐ | 10.000 | 10.038 | 96338.64 | 0.1086 | P | 2.1 | 0.4 |
| 5 | ☐ | 100.000 | 99.994 | 911668.94 | 1.0793 | P | 1.6 | 0.0 |
| 6 | ☑ | 200.000 | | 1885754.97 | 2.2786 | A | 2.3 | |

y = 0.0108 * x + 2.9669E-004
R = 1.0000
DL = 0.00237 ppb
BEC = 0.02749 ppb

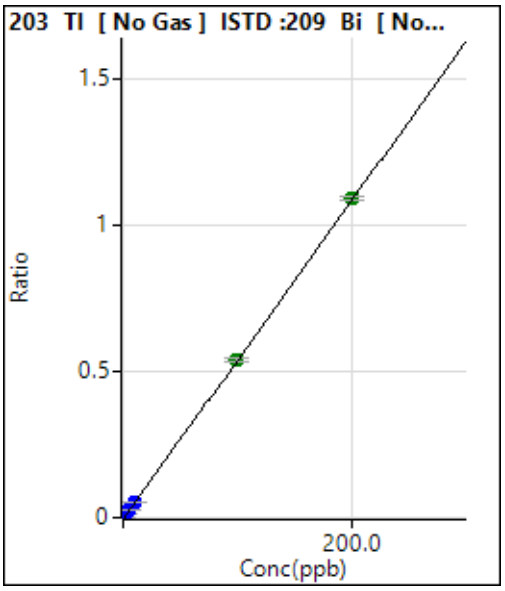
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 633.36 | 0.0001 | P | 20.8 | |
| 2 | ☐ | 2.000 | 1.950 | 18346.41 | 0.0042 | P | 2.8 | -2.5 |
| 3 | ☐ | 5.000 | 4.956 | 45298.23 | 0.0104 | P | 2.4 | -0.9 |
| 4 | ☐ | 10.000 | 9.867 | 88836.43 | 0.0206 | P | 4.7 | -1.3 |
| 5 | ☐ | 100.000 | 97.284 | 826307.96 | 0.2023 | P | 1.9 | -2.7 |
| 6 | ☐ | 200.000 | 201.366 | 1660976.80 | 0.4185 | A | 1.3 | 0.7 |

y = 0.0021 * x + 1.4299E-004
R = 0.9999
DL = 0.04294 ppb
BEC = 0.06882 ppb

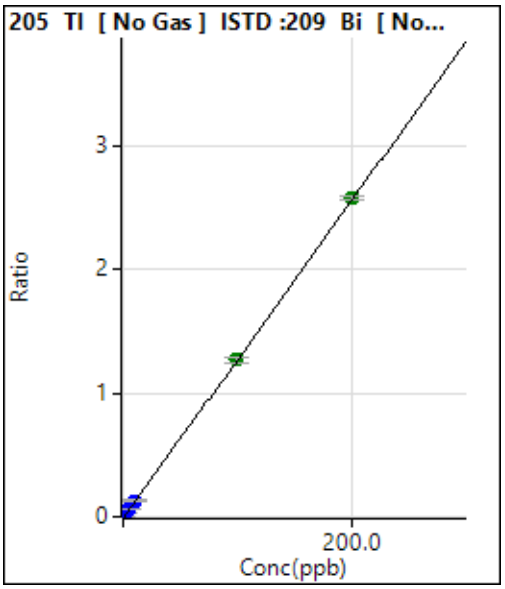
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 306.68 | 0.0001 | P | 34.6 | |
| 2 | ☐ | 2.000 | 2.068 | 55087.37 | 0.0113 | P | 1.4 | 3.4 |
| 3 | ☐ | 5.000 | 5.130 | 134948.34 | 0.0280 | P | 2.6 | 2.6 |
| 4 | ☐ | 10.000 | 10.073 | 266008.66 | 0.0549 | P | 1.7 | 0.7 |
| 5 | ☐ | 100.000 | 98.988 | 2475478.45 | 0.5390 | A | 3.1 | -1.0 |
| 6 | ☐ | 200.000 | 200.498 | 4844499.61 | 1.0916 | A | 0.9 | 0.2 |

y = 0.0054 * x + 6.2523E-005
R = 1.0000
DL = 0.01191 ppb
BEC = 0.01148 ppb

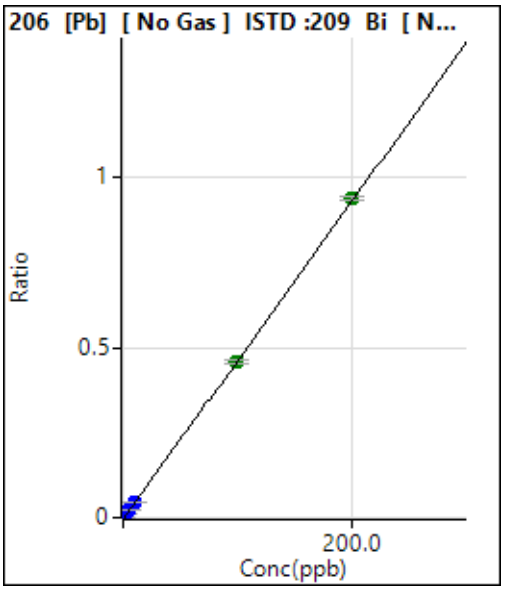
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 690.04 | 0.0001 | P | 13.9 | |
| 2 | ☐ | 2.000 | 2.067 | 130025.36 | 0.0267 | P | 0.8 | 3.3 |
| 3 | ☐ | 5.000 | 5.172 | 321407.94 | 0.0667 | P | 1.6 | 3.4 |
| 4 | ☐ | 10.000 | 10.170 | 634396.28 | 0.1309 | P | 2.0 | 1.7 |
| 5 | ☐ | 100.000 | 98.762 | 5834332.00 | 1.2703 | A | 3.1 | -1.2 |
| 6 | ☐ | 200.000 | 200.606 | 11450363.58 | 2.5800 | A | 1.0 | 0.3 |

y = 0.0129 * x + 1.4080E-004
R = 1.0000
DL = 0.004553 ppb
BEC = 0.01095 ppb

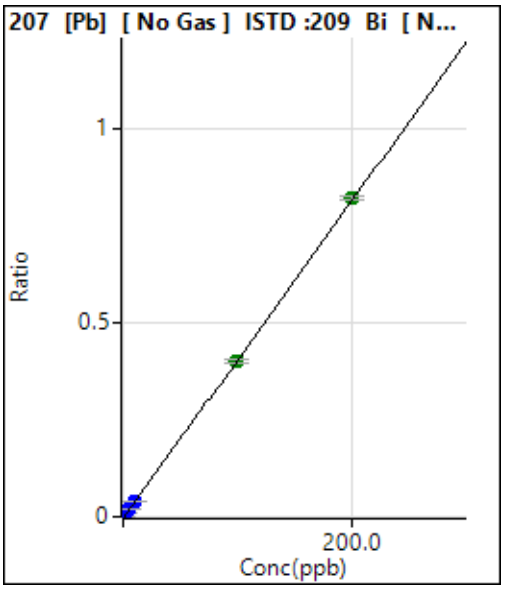
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 613.36 | 0.0001 | P | 1.1 | |
| 2 | ☐ | 2.000 | 1.974 | 45428.86 | 0.0093 | P | 2.2 | -1.3 |
| 3 | ☐ | 5.000 | 5.028 | 113712.79 | 0.0236 | P | 2.5 | 0.6 |
| 4 | ☐ | 10.000 | 9.913 | 224739.88 | 0.0464 | P | 1.1 | -0.9 |
| 5 | ☐ | 100.000 | 97.820 | 2097034.92 | 0.4566 | A | 2.7 | -2.2 |
| 6 | ☐ | 200.000 | 201.094 | 4164933.58 | 0.9385 | A | 1.0 | 0.5 |

y = 0.0047 * x + 1.2522E-004
R = 0.9999
DL = 0.0008833 ppb
BEC = 0.02683 ppb

Weight: <None>
Min Conc: <None>

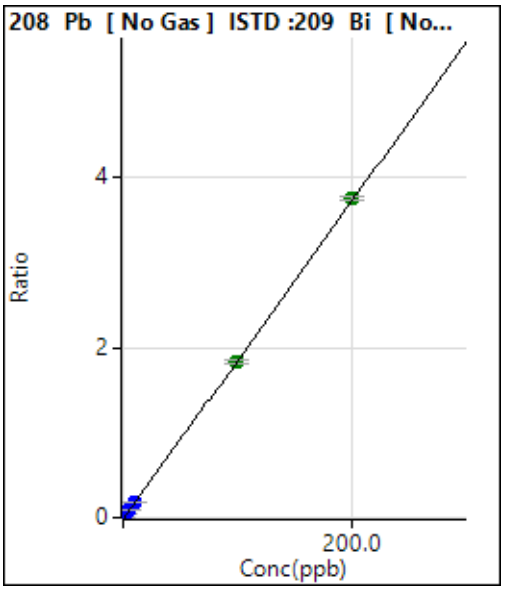



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 526.69 | 0.0001 | P | 2.5 | |
| 2 | ☐ | 2.000 | 1.977 | 39916.91 | 0.0082 | P | 2.8 | -1.1 |
| 3 | ☐ | 5.000 | 4.949 | 98247.52 | 0.0204 | P | 1.1 | -1.0 |
| 4 | ☐ | 10.000 | 9.792 | 194824.24 | 0.0402 | P | 1.1 | -2.1 |
| 5 | ☐ | 100.000 | 98.116 | 1846001.28 | 0.4019 | A | 2.1 | -1.9 |
| 6 | ☐ | 200.000 | 200.954 | 3652784.63 | 0.8230 | A | 1.2 | 0.5 |

y = 0.0041 * x + 1.0751E-004
R = 0.9999
DL = 0.001976 ppb
BEC = 0.02625 ppb

Weight: <None>
Min Conc: <None>

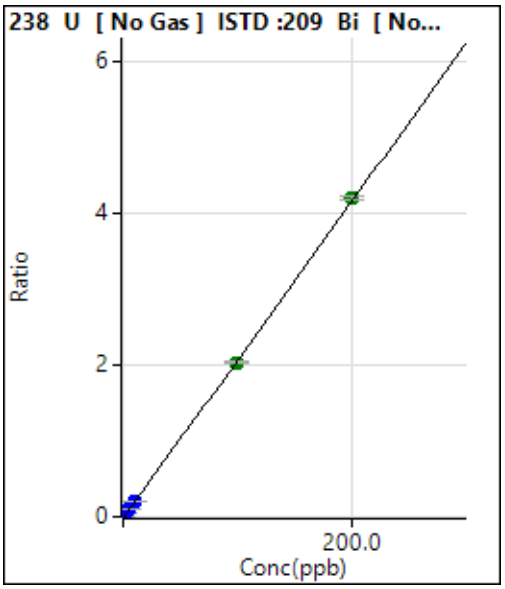
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2323.46 | 0.0005 | P | 5.2 | |
| 2 | ☐ | 2.000 | 1.983 | 182555.67 | 0.0375 | P | 1.1 | -0.8 |
| 3 | ☐ | 5.000 | 5.001 | 452680.68 | 0.0939 | P | 1.6 | 0.0 |
| 4 | ☐ | 10.000 | 9.922 | 900363.97 | 0.1858 | P | 1.0 | -0.8 |
| 5 | ☐ | 100.000 | 98.116 | 8420353.73 | 1.8333 | A | 2.1 | -1.9 |
| 6 | ☐ | 200.000 | 200.946 | 16660976.42 | 3.7541 | A | 0.8 | 0.5 |

y = 0.0187 * x + 4.7423E-004
R = 0.9999
DL = 0.003976 ppb
BEC = 0.02539 ppb

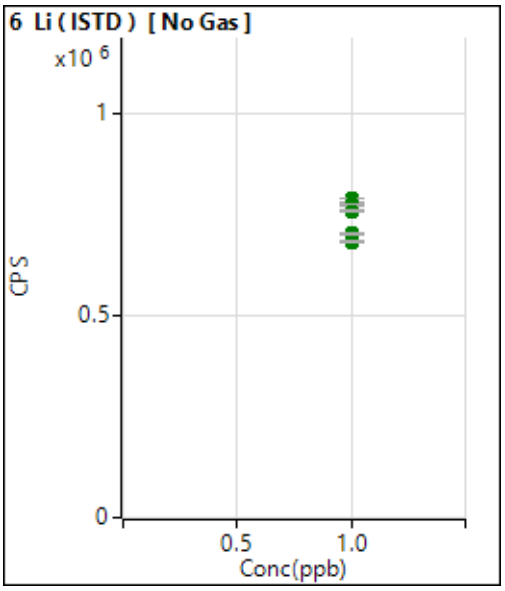
Weight: <None>
Min Conc: <None>



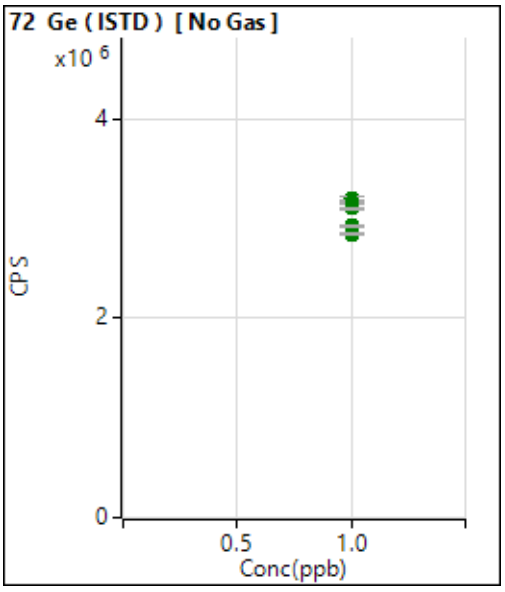

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1480.12 | 0.0003 | P | 5.6 | |
| 2 | ☐ | 2.000 | 1.852 | 189250.53 | 0.0389 | P | 0.7 | -7.4 |
| 3 | ☐ | 5.000 | 4.679 | 471674.98 | 0.0978 | P | 0.8 | -6.4 |
| 4 | ☐ | 10.000 | 9.283 | 938876.92 | 0.1938 | P | 0.9 | -7.2 |
| 5 | ☐ | 100.000 | 97.517 | 9336513.61 | 2.0327 | A | 1.8 | -2.5 |
| 6 | ☐ | 200.000 | 201.287 | 18618820.56 | 4.1953 | A | 1.2 | 0.6 |

y = 0.0208 * x + 3.0208E-004
R = 0.9999
DL = 0.002426 ppb
BEC = 0.01449 ppb

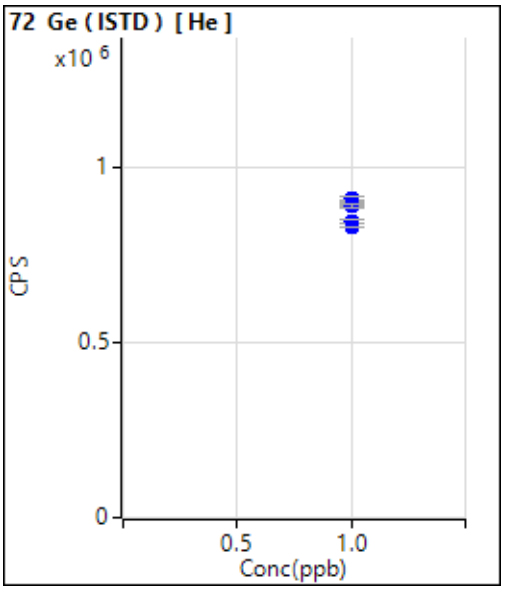
Weight: <None>
Min Conc: <None>



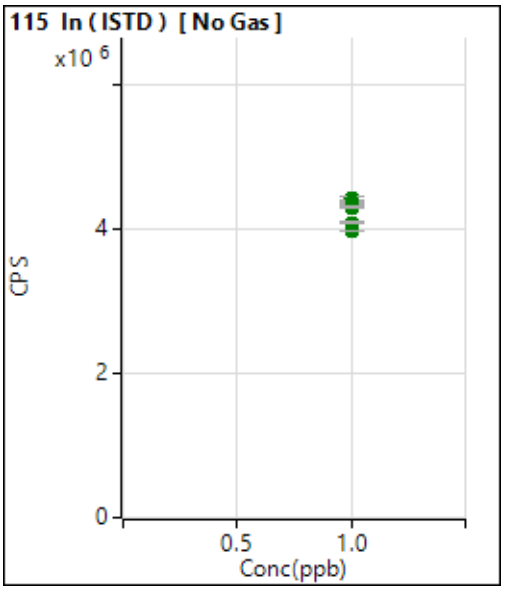

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 789600.72 | | A | 0.1 | |
| 2 | ☐ | 1.000 | | 775224.95 | | A | 0.7 | |
| 3 | ☐ | 1.000 | | 773452.79 | | A | 0.2 | |
| 4 | ☐ | 1.000 | | 758349.11 | | A | 0.7 | |
| 5 | ☐ | 1.000 | | 702121.63 | | A | 0.9 | |
| 6 | ☐ | 1.000 | | 682313.47 | | A | 0.4 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3202766.93 | | A | 1.1 | |
| 2 | ☐ | 1.000 | | 3158043.81 | | A | 0.8 | |
| 3 | ☐ | 1.000 | | 3147283.08 | | A | 0.4 | |
| 4 | ☐ | 1.000 | | 3105103.60 | | A | 0.7 | |
| 5 | ☐ | 1.000 | | 2923348.81 | | A | 0.8 | |
| 6 | ☐ | 1.000 | | 2838106.21 | | A | 0.7 | |

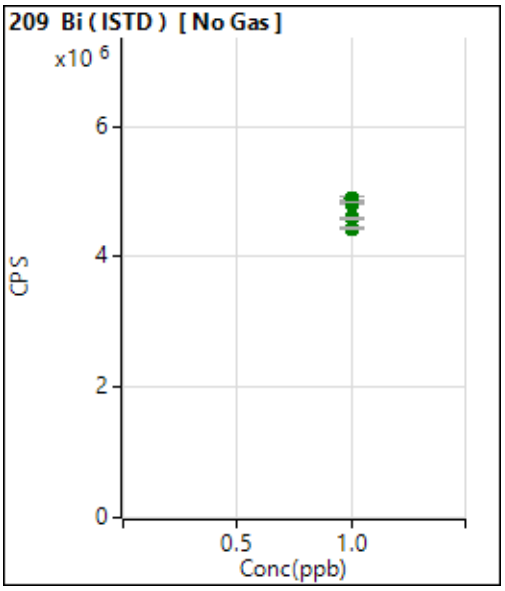



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 909952.25 | | P | 1.0 | |
| 2 | ☐ | 1.000 | | 893987.98 | | P | 0.8 | |
| 3 | ☐ | 1.000 | | 891524.36 | | P | 0.4 | |
| 4 | ☐ | 1.000 | | 886961.47 | | P | 0.9 | |
| 5 | ☐ | 1.000 | | 844684.91 | | P | 1.3 | |
| 6 | ☐ | 1.000 | | 827580.22 | | P | 0.4 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4425209.38 | | A | 0.8 | |
| 2 | ☐ | 1.000 | | 4373188.50 | | A | 0.2 | |
| 3 | ☐ | 1.000 | | 4339244.30 | | A | 0.7 | |
| 4 | ☐ | 1.000 | | 4303189.89 | | A | 0.2 | |
| 5 | ☐ | 1.000 | | 4085281.93 | | A | 0.7 | |
| 6 | ☐ | 1.000 | | 3968529.13 | | A | 0.3 | |

Calibration for 172_ICV.d



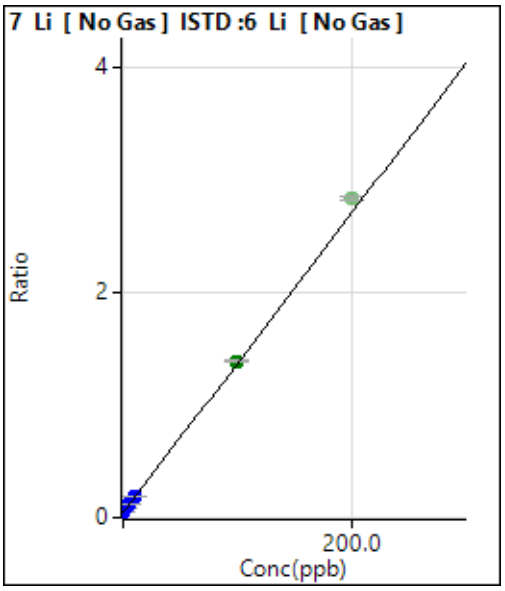

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4898592.22 | | A | 0.6 | |
| 2 | ☐ | 1.000 | | 4865545.24 | | A | 0.6 | |
| 3 | ☐ | 1.000 | | 4821597.12 | | A | 0.7 | |
| 4 | ☐ | 1.000 | | 4845240.35 | | A | 0.3 | |
| 5 | ☐ | 1.000 | | 4593412.85 | | A | 0.6 | |
| 6 | ☐ | 1.000 | | 4438006.81 | | A | 0.5 | |

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062824A.b\
Analysis File: 062824A.batch.bin
DA Date-Time: 6/28/2024 10:08:19 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 010CALB.d | CAL BLK | 6/28/2024 10:48:54 AM |
| 2 | 011CALS.d | 2/10/200 | 6/28/2024 10:51:37 AM |
| 3 | 012CALS.d | 5/25/500 | 6/28/2024 10:54:18 AM |
| 4 | 013CALS.d | 10/50/100 | 6/28/2024 10:56:58 AM |
| 5 | 014CALS.d | 100/500/10K | 6/28/2024 10:59:39 AM |
| 6 | 015CALS.d | 200/1000/20K | 6/28/2024 11:02:18 AM |

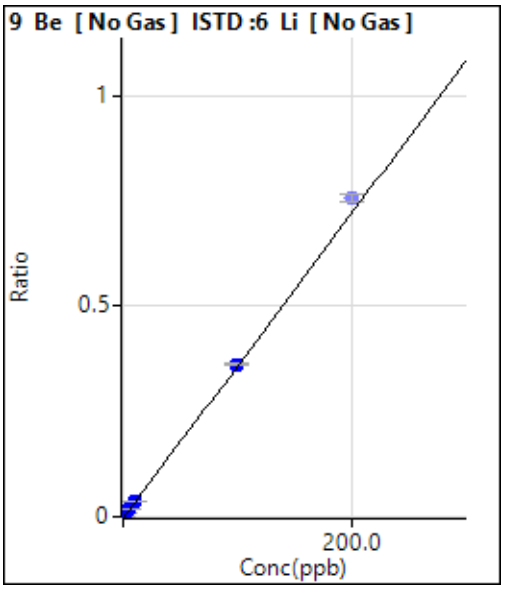
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 53693.95 | 0.0580 | P | 0.8 | |
| 2 | ☐ | 2.000 | 1.985 | 76827.04 | 0.0844 | P | 0.8 | -0.8 |
| 3 | ☐ | 5.000 | 4.966 | 111419.71 | 0.1240 | P | 2.0 | -0.7 |
| 4 | ☐ | 10.000 | 9.951 | 168866.07 | 0.1903 | P | 1.1 | -0.5 |
| 5 | ☐ | 100.000 | 100.007 | 1132266.78 | 1.3869 | A | 1.7 | 0.0 |
| 6 | ☑ | 200.000 | | 2170636.01 | 2.8328 | A | 1.4 | |

y = 0.0133 * x + 0.0580
R = 1.0000
DL = 0.09885 ppb
BEC = 4.368 ppb

Weight: <None>
Min Conc: <None>

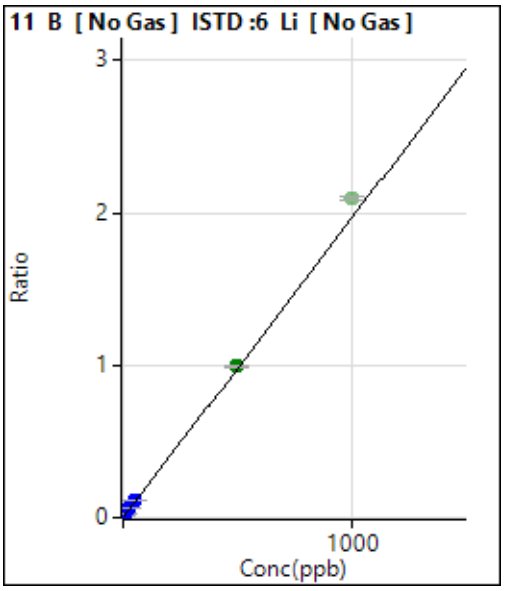



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 93.33 | 0.0001 | P | 21.9 | |
| 2 | ☐ | 2.000 | 1.940 | 6486.52 | 0.0071 | P | 3.3 | -3.0 |
| 3 | ☐ | 5.000 | 4.865 | 15915.62 | 0.0177 | P | 5.9 | -2.7 |
| 4 | ☐ | 10.000 | 9.972 | 32139.60 | 0.0362 | P | 1.2 | -0.3 |
| 5 | ☐ | 100.000 | 100.011 | 295776.38 | 0.3623 | P | 1.9 | 0.0 |
| 6 | ☑ | 200.000 | | 580133.38 | 0.7571 | P | 2.2 | |

y = 0.0036 * x + 1.0094E-004
R = 1.0000
DL = 0.01834 ppb
BEC = 0.02787 ppb

Weight: <None>
Min Conc: <None>

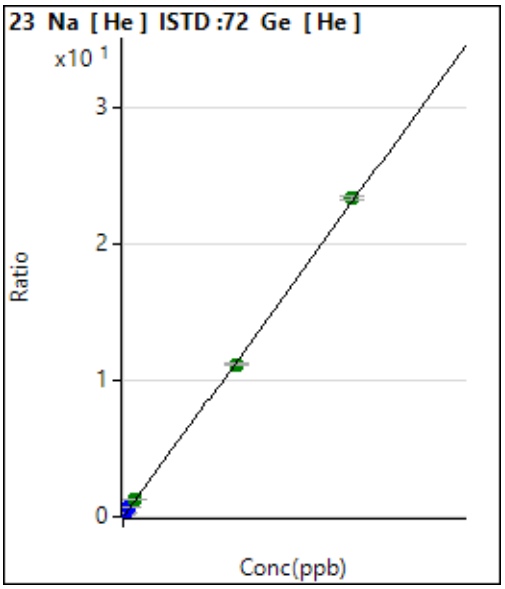
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 10485.62 | 0.0113 | P | 1.5 | |
| 2 | ☐ | 10.000 | 9.335 | 27000.62 | 0.0297 | P | 1.8 | -6.6 |
| 3 | ☐ | 25.000 | 24.615 | 53607.41 | 0.0597 | P | 3.3 | -1.5 |
| 4 | ☐ | 50.000 | 49.444 | 96239.64 | 0.1084 | P | 1.1 | -1.1 |
| 5 | ☐ | 500.000 | 500.088 | 811064.34 | 0.9934 | A | 1.8 | 0.0 |
| 6 | ☑ | 1000.000 | | 1606226.28 | 2.0962 | A | 1.4 | |

y = 0.0020 * x + 0.0113
R = 1.0000
DL = 0.2563 ppb
BEC = 5.772 ppb

Weight: <None>
Min Conc: <None>

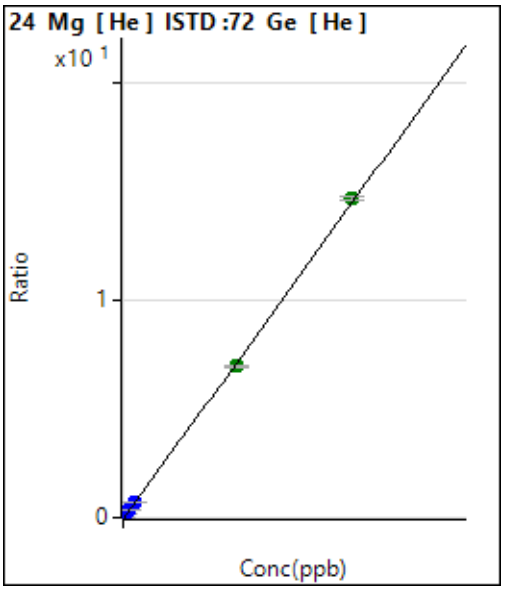



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 68033.74 | 0.0869 | P | 1.0 | |
| 2 | ☐ | 200.000 | 194.421 | 241881.29 | 0.3106 | P | 2.2 | -2.8 |
| 3 | ☐ | 500.000 | 497.467 | 512046.74 | 0.6594 | P | 1.1 | -0.5 |
| 4 | ☐ | 1000.000 | 1007.977 | 958747.62 | 1.2469 | A | 2.0 | 0.8 |
| 5 | ☐ | 10000.00 | 9605.169 | 8244615.92 | 11.1412 | A | 1.2 | -3.9 |
| 6 | ☐ | 20000.00 | 20197.13 | 16883068.50 | 23.3311 | A | 1.5 | 1.0 |

y = 0.0012 * x + 0.0869
R = 0.9997
DL = 2.27 ppb
BEC = 75.48 ppb

Weight: <None>
Min Conc: <None>

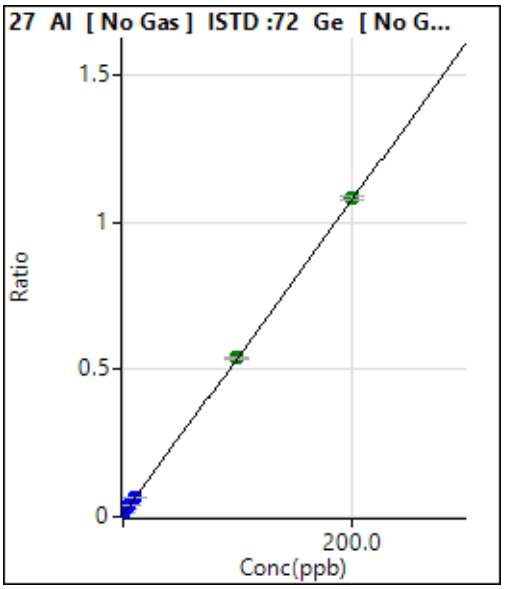
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1630.12 | 0.0021 | P | 7.2 | |
| 2 | ☐ | 200.000 | 190.440 | 109586.99 | 0.1407 | P | 4.6 | -4.8 |
| 3 | ☐ | 500.000 | 491.846 | 279702.50 | 0.3602 | P | 1.3 | -1.6 |
| 4 | ☐ | 1000.000 | 997.385 | 559962.84 | 0.7283 | P | 1.8 | -0.3 |
| 5 | ☐ | 10000.00 | 9579.136 | 5162817.63 | 6.9765 | A | 1.5 | -4.2 |
| 6 | ☐ | 20000.00 | 20210.86 | 10649836.92 | 14.7174 | A | 1.7 | 1.1 |

y = 7.2809E-004 * x + 0.0021
R = 0.9997
DL = 0.6191 ppb
BEC = 2.858 ppb

Weight: <None>
Min Conc: <None>

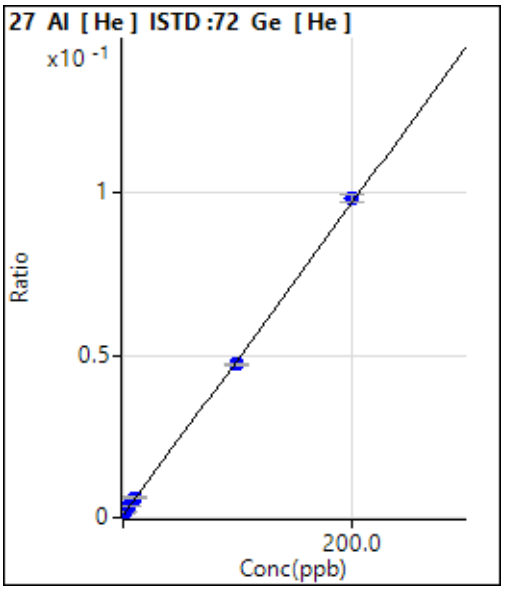



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 34101.58 | 0.0123 | P | 2.5 | |
| 2 | ☐ | 2.000 | 2.117 | 65264.21 | 0.0236 | P | 1.6 | 5.9 |
| 3 | ☐ | 5.000 | 4.999 | 106947.31 | 0.0390 | P | 1.5 | 0.0 |
| 4 | ☐ | 10.000 | 10.403 | 185299.17 | 0.0679 | P | 1.3 | 4.0 |
| 5 | ☐ | 100.000 | 98.785 | 1416939.09 | 0.5399 | A | 1.6 | -1.2 |
| 6 | ☐ | 200.000 | 200.586 | 2757465.17 | 1.0836 | A | 1.4 | 0.3 |

y = 0.0053 * x + 0.0123
R = 1.0000
DL = 0.1758 ppb
BEC = 2.307 ppb

Weight: <None>
Min Conc: <None>

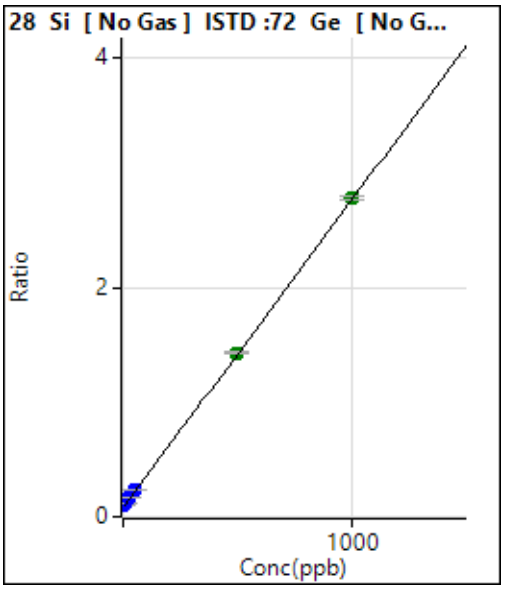
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 930.05 | 0.0012 | P | 8.3 | |
| 2 | ☐ | 2.000 | 1.636 | 1536.78 | 0.0020 | P | 4.7 | -18.2 |
| 3 | ☐ | 5.000 | 4.780 | 2706.97 | 0.0035 | P | 1.5 | -4.4 |
| 4 | ☐ | 10.000 | 10.172 | 4674.20 | 0.0061 | P | 7.8 | 1.7 |
| 5 | ☐ | 100.000 | 95.743 | 34950.40 | 0.0472 | P | 1.5 | -4.3 |
| 6 | ☐ | 200.000 | 202.129 | 71196.14 | 0.0984 | P | 2.2 | 1.1 |

y = 4.8088E-004 * x + 0.0012
R = 0.9997
DL = 0.6129 ppb
BEC = 2.469 ppb

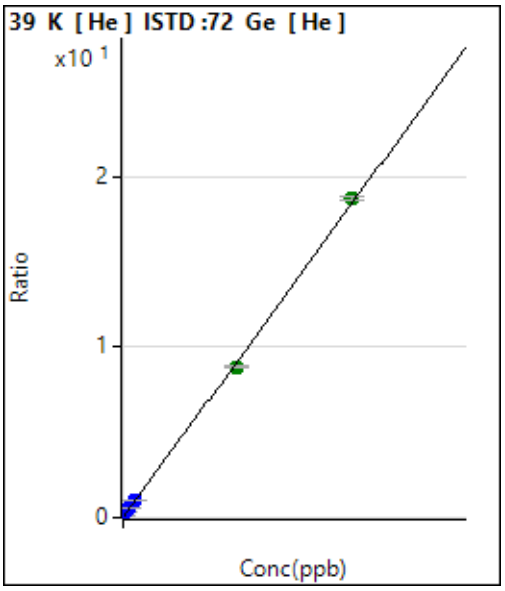
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 259377.48 | 0.0937 | P | 3.4 | |
| 2 | ☐ | 10.000 | 10.538 | 336928.11 | 0.1220 | P | 1.4 | 5.4 |
| 3 | ☐ | 25.000 | 26.114 | 448739.76 | 0.1637 | P | 1.7 | 4.5 |
| 4 | ☐ | 50.000 | 52.538 | 640435.47 | 0.2346 | P | 0.5 | 5.1 |
| 5 | ☐ | 500.000 | 496.287 | 3738979.43 | 1.4247 | A | 1.2 | -0.7 |
| 6 | ☐ | 1000.000 | 1001.696 | 7074832.81 | 2.7802 | A | 0.9 | 0.2 |

y = 0.0027 * x + 0.0937
R = 1.0000
DL = 3.552 ppb
BEC = 34.94 ppb

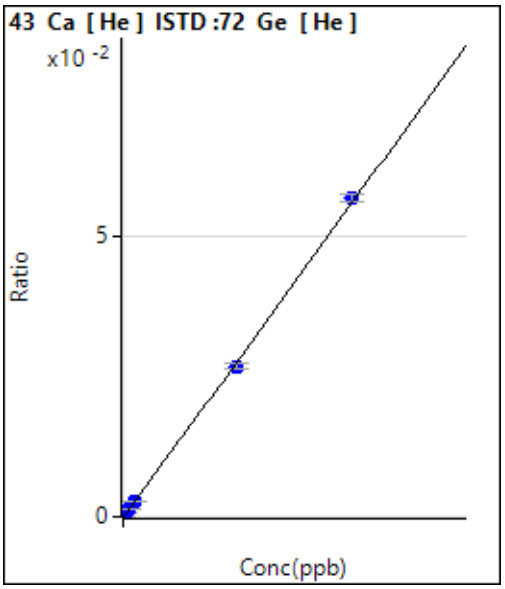
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 86238.61 | 0.1101 | P | 1.9 | |
| 2 | ☐ | 200.000 | 190.632 | 222088.86 | 0.2852 | P | 1.8 | -4.7 |
| 3 | ☐ | 500.000 | 484.177 | 430864.03 | 0.5548 | P | 1.6 | -3.2 |
| 4 | ☐ | 1000.000 | 980.426 | 777098.58 | 1.0107 | P | 2.0 | -2.0 |
| 5 | ☐ | 10000.00 | 9496.081 | 6536171.36 | 8.8326 | A | 0.8 | -5.0 |
| 6 | ☐ | 20000.00 | 20253.42 | 13541562.71 | 18.7136 | A | 1.8 | 1.3 |

y = 9.1854E-004 * x + 0.1101
R = 0.9996
DL = 6.861 ppb
BEC = 119.9 ppb

Weight: <None>
Min Conc: <None>

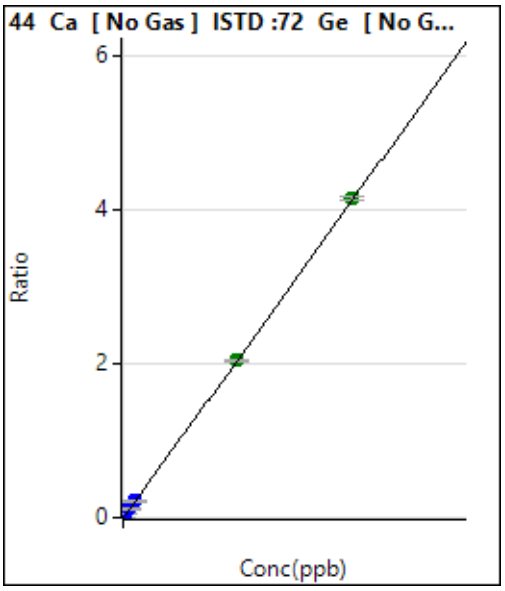



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 43.33 | 0.0001 | P | 58.6 | |
| 2 | ☐ | 200.000 | 198.303 | 476.68 | 0.0006 | P | 13.7 | -0.8 |
| 3 | ☐ | 500.000 | 484.738 | 1100.06 | 0.0014 | P | 8.6 | -3.1 |
| 4 | ☐ | 1000.000 | 957.754 | 2110.20 | 0.0027 | P | 10.7 | -4.2 |
| 5 | ☐ | 10000.00 | 9543.795 | 19871.21 | 0.0268 | P | 4.8 | -4.6 |
| 6 | ☐ | 20000.00 | 20230.61 | 41137.64 | 0.0569 | P | 2.1 | 1.2 |

y = 2.8074E-006 * x + 5.5433E-005
R = 0.9996
DL = 34.71 ppb
BEC = 19.75 ppb

Weight: <None>
Min Conc: <None>

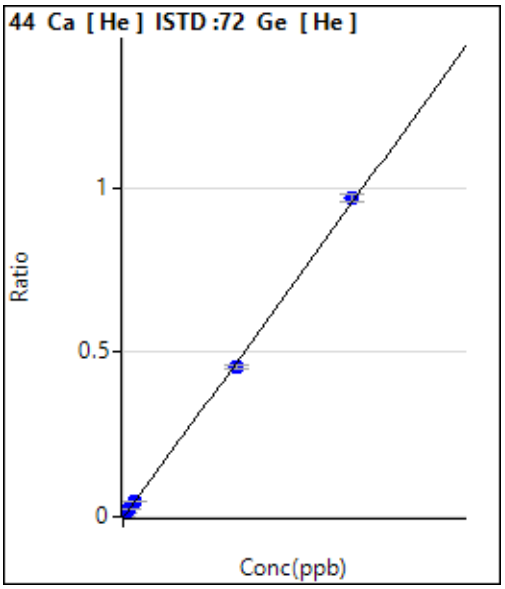
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 28997.33 | 0.0105 | P | 2.7 | |
| 2 | ☐ | 200.000 | 196.142 | 140482.65 | 0.0509 | P | 2.7 | -1.9 |
| 3 | ☐ | 500.000 | 495.867 | 308521.45 | 0.1126 | P | 0.8 | -0.8 |
| 4 | ☐ | 1000.000 | 988.159 | 583938.00 | 0.2139 | P | 2.4 | -1.2 |
| 5 | ☐ | 10000.00 | 9843.692 | 5346373.77 | 2.0372 | A | 1.7 | -1.6 |
| 6 | ☐ | 20000.00 | 20078.88 | 10546593.38 | 4.1445 | A | 1.0 | 0.4 |

y = 2.0589E-004 * x + 0.0105
R = 1.0000
DL = 4.144 ppb
BEC = 50.88 ppb

Weight: <None>
Min Conc: <None>

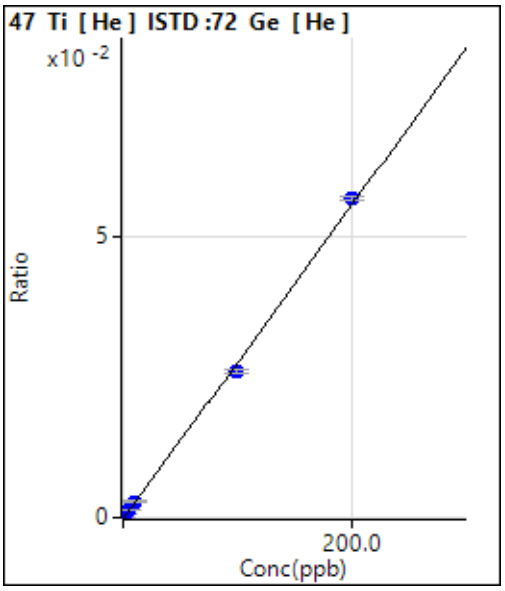



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 606.69 | 0.0008 | P | 3.6 | |
| 2 | ☐ | 200.000 | 197.813 | 7985.77 | 0.0103 | P | 7.2 | -1.1 |
| 3 | ☐ | 500.000 | 480.803 | 18499.27 | 0.0238 | P | 2.9 | -3.8 |
| 4 | ☐ | 1000.000 | 969.695 | 36334.41 | 0.0473 | P | 2.6 | -3.0 |
| 5 | ☐ | 10000.00 | 9534.462 | 338794.68 | 0.4578 | P | 2.8 | -4.7 |
| 6 | ☐ | 20000.00 | 20234.78 | 702419.83 | 0.9707 | P | 1.9 | 1.2 |

y = 4.7934E-005 * x + 7.7452E-004
R = 0.9996
DL = 1.757 ppb
BEC = 16.16 ppb

Weight: <None>
Min Conc: <None>

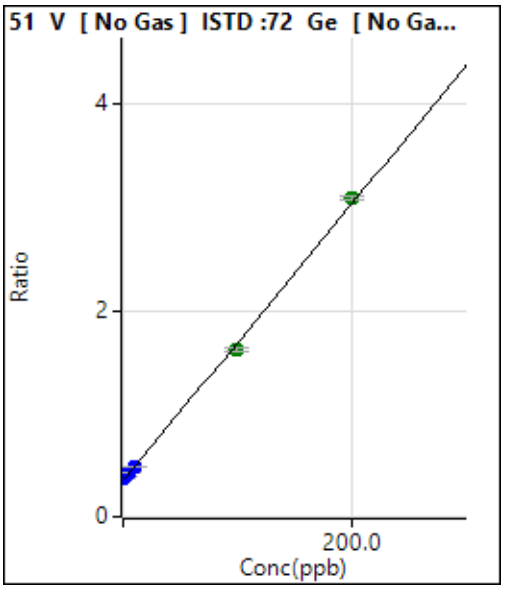
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 10.00 | 0.0000 | P | 173.2 | |
| 2 | ☐ | 2.000 | 2.454 | 543.36 | 0.0007 | P | 8.7 | 22.7 |
| 3 | ☐ | 5.000 | 4.629 | 1013.39 | 0.0013 | P | 7.7 | -7.4 |
| 4 | ☐ | 10.000 | 9.989 | 2153.54 | 0.0028 | P | 9.8 | -0.1 |
| 5 | ☐ | 100.000 | 93.218 | 19263.64 | 0.0260 | P | 3.7 | -6.8 |
| 6 | ☐ | 200.000 | 203.396 | 41087.74 | 0.0568 | P | 1.1 | 1.7 |

y = 2.7910E-004 * x + 1.2735E-005
R = 0.9992
DL = 0.2371 ppb
BEC = 0.04563 ppb

Weight: <None>
Min Conc: <None>

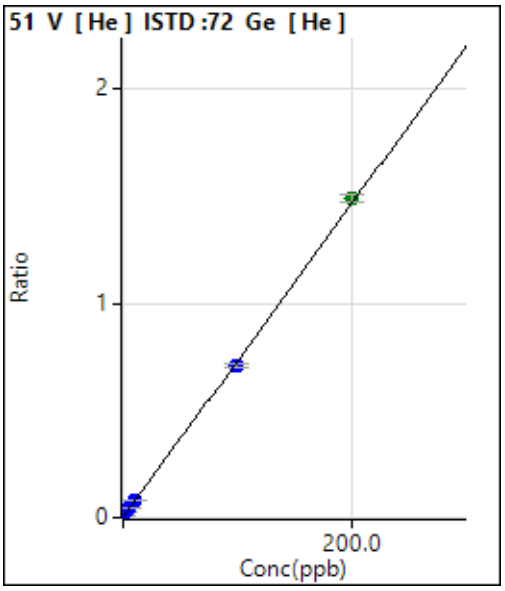



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1010954.48 | 0.3652 | P | 0.5 | |
| 2 | ☐ | 2.000 | 1.938 | 1080650.24 | 0.3912 | P | 1.3 | -3.1 |
| 3 | ☐ | 5.000 | 4.355 | 1161135.25 | 0.4236 | P | 1.4 | -12.9 |
| 4 | ☐ | 10.000 | 8.883 | 1322173.21 | 0.4844 | P | 1.4 | -11.2 |
| 5 | ☐ | 100.000 | 93.506 | 4249706.16 | 1.6193 | A | 1.3 | -6.5 |
| 6 | ☐ | 200.000 | 203.320 | 7868543.93 | 3.0921 | A | 0.8 | 1.7 |

y = 0.0134 * x + 0.3652
R = 0.9993
DL = 0.4177 ppb
BEC = 27.23 ppb

Weight: <None>
Min Conc: <None>

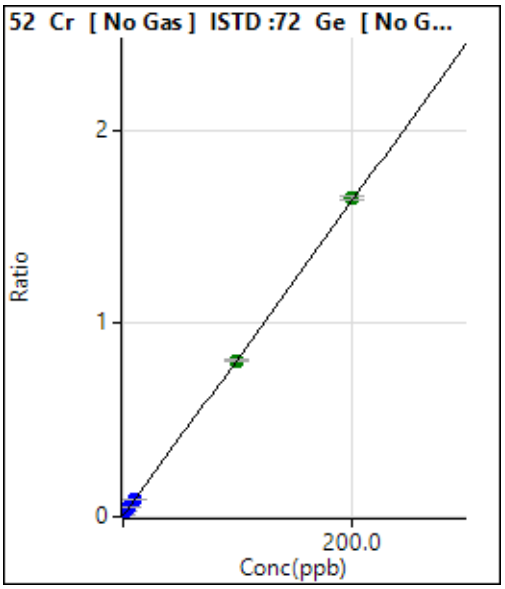
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7209.69 | 0.0092 | P | 2.4 | |
| 2 | ☐ | 2.000 | 1.919 | 18096.30 | 0.0232 | P | 2.3 | -4.0 |
| 3 | ☐ | 5.000 | 4.763 | 34195.37 | 0.0440 | P | 1.8 | -4.7 |
| 4 | ☐ | 10.000 | 9.839 | 62395.05 | 0.0811 | P | 2.8 | -1.6 |
| 5 | ☐ | 100.000 | 95.172 | 521843.03 | 0.7052 | P | 2.4 | -4.8 |
| 6 | ☐ | 200.000 | 202.429 | 1077786.55 | 1.4895 | A | 2.4 | 1.2 |

y = 0.0073 * x + 0.0092
R = 0.9996
DL = 0.08909 ppb
BEC = 1.259 ppb

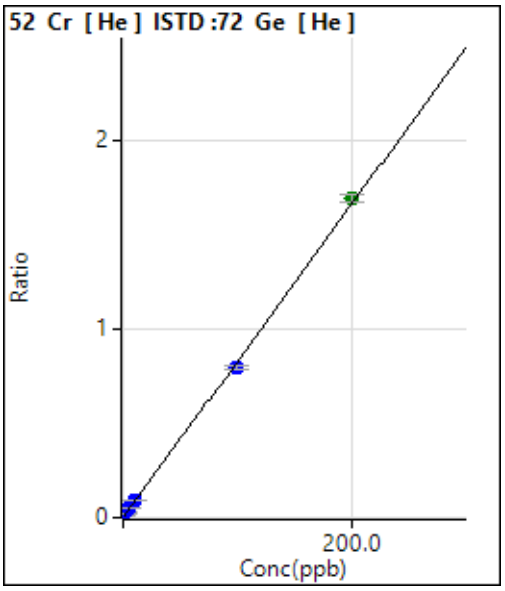
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 34286.10 | 0.0124 | P | 1.8 | |
| 2 | ☐ | 2.000 | 1.958 | 78226.70 | 0.0283 | P | 2.6 | -2.1 |
| 3 | ☐ | 5.000 | 5.009 | 145663.94 | 0.0531 | P | 3.9 | 0.2 |
| 4 | ☐ | 10.000 | 9.909 | 253873.25 | 0.0930 | P | 1.7 | -0.9 |
| 5 | ☐ | 100.000 | 97.835 | 2121565.39 | 0.8084 | A | 0.9 | -2.2 |
| 6 | ☐ | 200.000 | 201.087 | 4195007.34 | 1.6485 | A | 0.6 | 0.5 |

y = 0.0081 * x + 0.0124
R = 0.9999
DL = 0.08146 ppb
BEC = 1.522 ppb

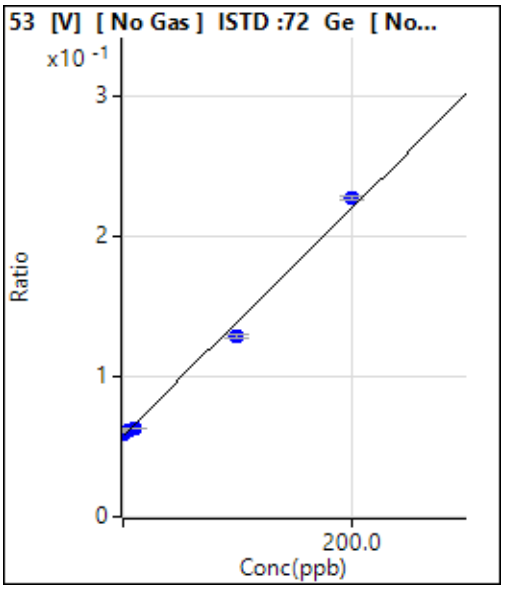
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7608.88 | 0.0097 | P | 5.4 | |
| 2 | ☐ | 2.000 | 1.911 | 19941.23 | 0.0256 | P | 1.7 | -4.5 |
| 3 | ☐ | 5.000 | 4.811 | 38614.11 | 0.0497 | P | 1.2 | -3.8 |
| 4 | ☐ | 10.000 | 9.993 | 71366.91 | 0.0928 | P | 1.5 | -0.1 |
| 5 | ☐ | 100.000 | 94.508 | 588850.85 | 0.7957 | P | 2.1 | -5.5 |
| 6 | ☐ | 200.000 | 202.752 | 1227189.22 | 1.6959 | A | 2.3 | 1.4 |

y = 0.0083 * x + 0.0097
R = 0.9995
DL = 0.1888 ppb
BEC = 1.168 ppb

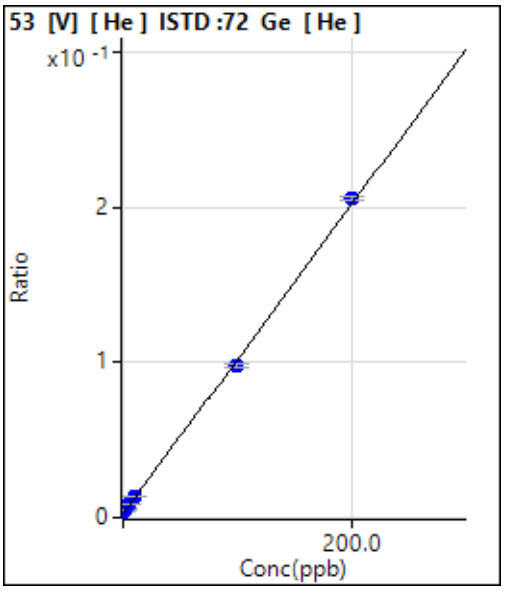
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 164036.67 | 0.0593 | P | 0.7 | |
| 2 | ☐ | 2.000 | 1.732 | 167571.12 | 0.0607 | P | 1.2 | -13.4 |
| 3 | ☐ | 5.000 | 2.193 | 167297.96 | 0.0610 | P | 1.2 | -56.1 |
| 4 | ☐ | 10.000 | 5.018 | 172871.46 | 0.0633 | P | 1.1 | -49.8 |
| 5 | ☐ | 100.000 | 85.756 | 337990.58 | 0.1288 | P | 1.4 | -14.2 |
| 6 | ☐ | 200.000 | 207.444 | 578785.28 | 0.2274 | P | 1.3 | 3.7 |

y = 8.1073E-004 * x + 0.0593
R = 0.9966
DL = 1.644 ppb
BEC = 73.1 ppb

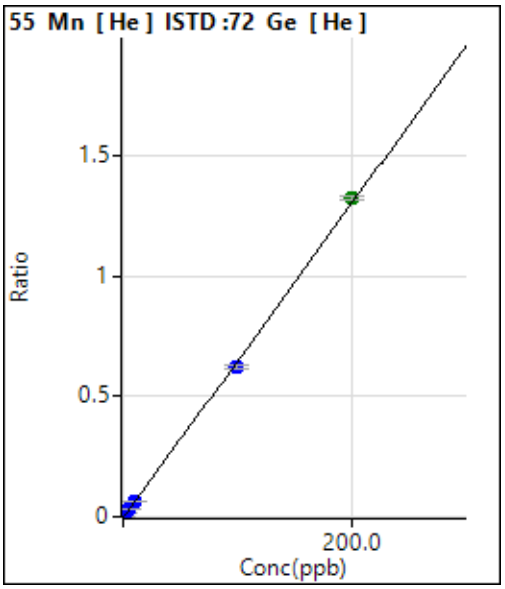
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2793.66 | 0.0036 | P | 5.9 | |
| 2 | ☐ | 2.000 | 1.858 | 4217.40 | 0.0054 | P | 6.4 | -7.1 |
| 3 | ☐ | 5.000 | 4.727 | 6424.93 | 0.0083 | P | 4.7 | -5.5 |
| 4 | ☐ | 10.000 | 9.708 | 10177.27 | 0.0132 | P | 2.1 | -2.9 |
| 5 | ☐ | 100.000 | 94.230 | 72100.88 | 0.0974 | P | 2.8 | -5.8 |
| 6 | ☐ | 200.000 | 202.908 | 148836.68 | 0.2057 | P | 1.5 | 1.5 |

y = 9.9607E-004 * x + 0.0036
R = 0.9994
DL = 0.6353 ppb
BEC = 3.58 ppb

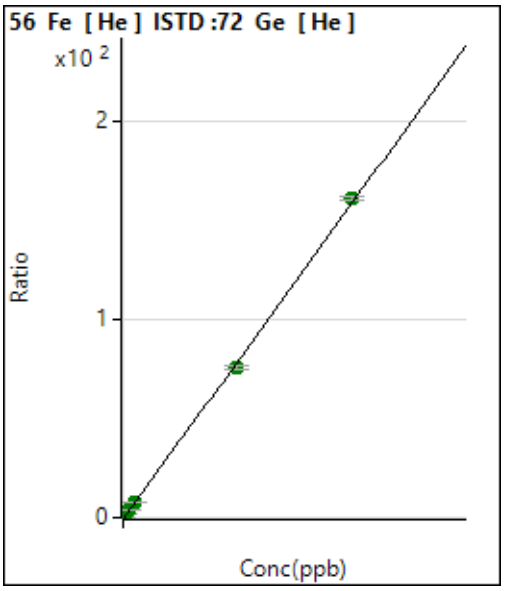
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 776.70 | 0.0010 | P | 11.6 | |
| 2 | ☐ | 2.000 | 1.878 | 10347.38 | 0.0133 | P | 5.0 | -6.1 |
| 3 | ☐ | 5.000 | 4.784 | 25089.77 | 0.0323 | P | 3.8 | -4.3 |
| 4 | ☐ | 10.000 | 9.943 | 50810.52 | 0.0661 | P | 3.3 | -0.6 |
| 5 | ☐ | 100.000 | 95.066 | 461277.27 | 0.6233 | P | 1.9 | -4.9 |
| 6 | ☐ | 200.000 | 202.476 | 959867.75 | 1.3264 | A | 1.3 | 1.2 |

y = 0.0065 * x + 9.9207E-004
R = 0.9996
DL = 0.05289 ppb
BEC = 0.1515 ppb

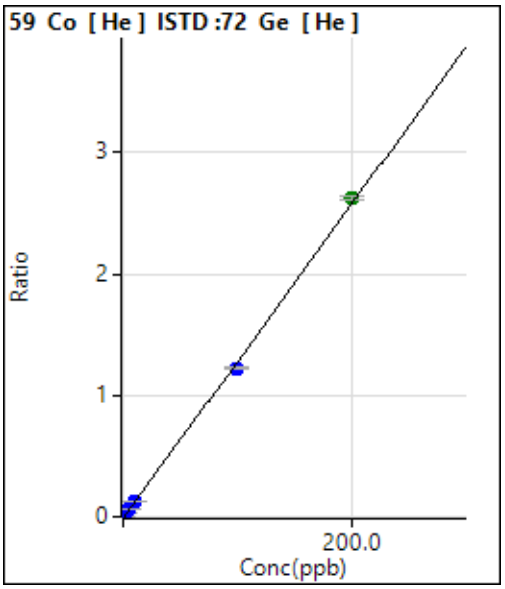
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 19894.62 | 0.0254 | P | 1.6 | |
| 2 | ☐ | 200.000 | 189.312 | 1196572.38 | 1.5366 | A | 2.4 | -5.3 |
| 3 | ☐ | 500.000 | 485.044 | 3026576.73 | 3.8974 | A | 1.8 | -3.0 |
| 4 | ☐ | 1000.000 | 995.855 | 6132018.24 | 7.9751 | A | 2.3 | -0.4 |
| 5 | ☐ | 10000.00 | 9544.277 | 56402962.49 | 76.2156 | A | 2.2 | -4.6 |
| 6 | ☐ | 20000.00 | 20228.54 | 116870611.5 | 161.506 | A | 1.5 | 1.1 |

y = 0.0080 * x + 0.0254
R = 0.9996
DL = 0.1481 ppb
BEC = 3.182 ppb

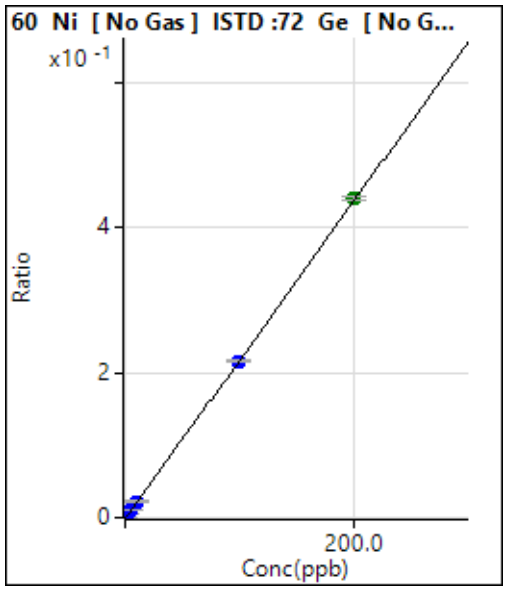
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 320.01 | 0.0004 | P | 8.8 | |
| 2 | ☐ | 2.000 | 1.884 | 19307.12 | 0.0248 | P | 2.7 | -5.8 |
| 3 | ☐ | 5.000 | 4.849 | 49050.62 | 0.0632 | P | 0.8 | -3.0 |
| 4 | ☐ | 10.000 | 9.818 | 98006.73 | 0.1275 | P | 3.4 | -1.8 |
| 5 | ☐ | 100.000 | 94.319 | 903636.13 | 1.2211 | P | 1.6 | -5.7 |
| 6 | ☐ | 200.000 | 202.855 | 1900057.73 | 2.6258 | A | 1.4 | 1.4 |

y = 0.0129 * x + 4.0872E-004
R = 0.9994
DL = 0.008384 ppb
BEC = 0.03158 ppb

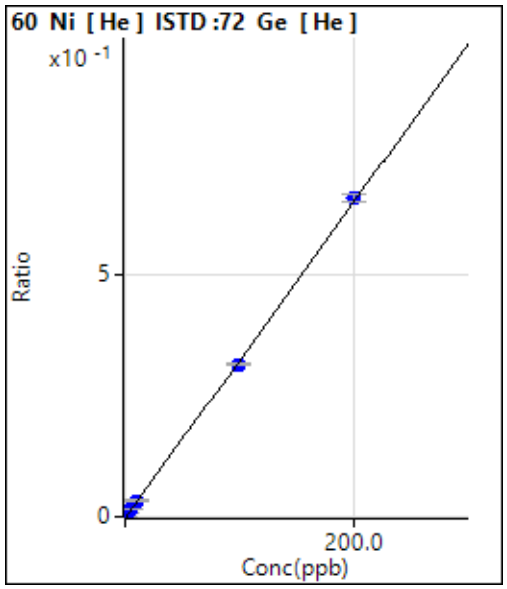
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 866.71 | 0.0003 | P | 9.3 | |
| 2 | ☐ | 2.000 | 2.008 | 13033.04 | 0.0047 | P | 1.3 | 0.4 |
| 3 | ☐ | 5.000 | 5.064 | 31312.63 | 0.0114 | P | 3.4 | 1.3 |
| 4 | ☐ | 10.000 | 10.130 | 61523.56 | 0.0225 | P | 1.3 | 1.3 |
| 5 | ☐ | 100.000 | 98.261 | 566638.22 | 0.2159 | P | 1.6 | -1.7 |
| 6 | ☐ | 200.000 | 200.861 | 1122317.56 | 0.4410 | A | 0.9 | 0.4 |

y = 0.0022 * x + 3.1313E-004
R = 0.9999
DL = 0.03995 ppb
BEC = 0.1427 ppb

Weight: <None>
Min Conc: <None>

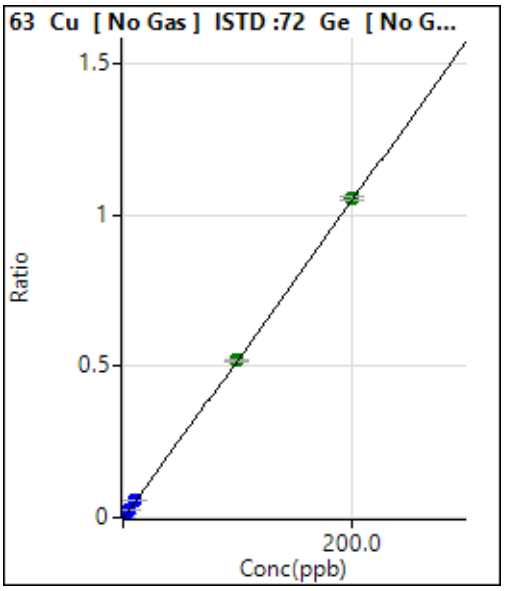



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 263.34 | 0.0003 | P | 12.9 | |
| 2 | ☐ | 2.000 | 1.952 | 5237.76 | 0.0067 | P | 2.7 | -2.4 |
| 3 | ☐ | 5.000 | 4.915 | 12756.10 | 0.0164 | P | 0.8 | -1.7 |
| 4 | ☐ | 10.000 | 10.055 | 25567.34 | 0.0333 | P | 5.7 | 0.5 |
| 5 | ☐ | 100.000 | 96.516 | 234079.81 | 0.3163 | P | 1.9 | -3.5 |
| 6 | ☐ | 200.000 | 201.742 | 478169.86 | 0.6608 | P | 2.4 | 0.9 |

y = 0.0033 * x + 3.3611E-004
R = 0.9998
DL = 0.03985 ppb
BEC = 0.1027 ppb

Weight: <None>
Min Conc: <None>

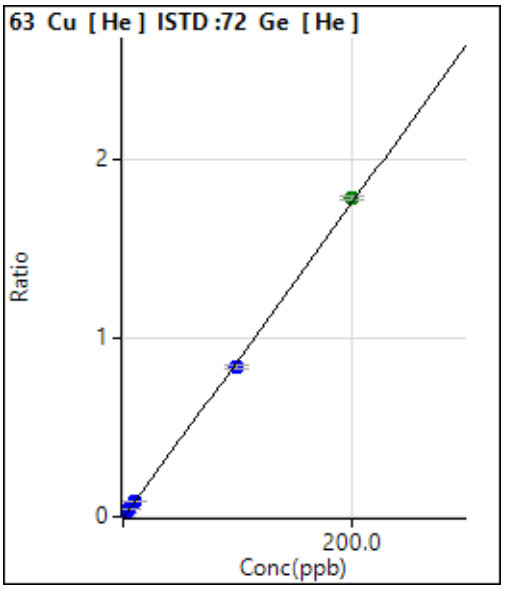
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1626.79 | 0.0006 | P | 4.9 | |
| 2 | ☐ | 2.000 | 2.049 | 31429.43 | 0.0114 | P | 2.2 | 2.4 |
| 3 | ☐ | 5.000 | 5.130 | 75661.23 | 0.0276 | P | 2.4 | 2.6 |
| 4 | ☐ | 10.000 | 10.296 | 149626.46 | 0.0548 | P | 1.1 | 3.0 |
| 5 | ☐ | 100.000 | 98.696 | 1365690.09 | 0.5204 | A | 1.1 | -1.3 |
| 6 | ☐ | 200.000 | 200.634 | 2690477.04 | 1.0573 | A | 1.3 | 0.3 |

y = 0.0053 * x + 5.8772E-004
R = 1.0000
DL = 0.01655 ppb
BEC = 0.1116 ppb

Weight: <None>
Min Conc: <None>

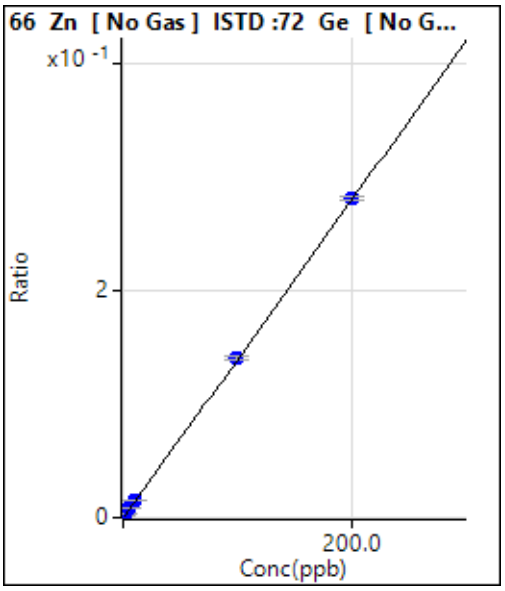



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 600.02 | 0.0008 | P | 9.9 | |
| 2 | ☐ | 2.000 | 1.975 | 14180.86 | 0.0182 | P | 4.3 | -1.3 |
| 3 | ☐ | 5.000 | 4.975 | 34727.63 | 0.0447 | P | 1.8 | -0.5 |
| 4 | ☐ | 10.000 | 10.086 | 69106.74 | 0.0899 | P | 1.3 | 0.9 |
| 5 | ☐ | 100.000 | 95.361 | 624093.85 | 0.8433 | P | 2.0 | -4.6 |
| 6 | ☐ | 200.000 | 202.316 | 1294061.54 | 1.7883 | A | 1.6 | 1.2 |

y = 0.0088 * x + 7.6598E-004
R = 0.9996
DL = 0.02568 ppb
BEC = 0.08669 ppb

Weight: <None>
Min Conc: <None>

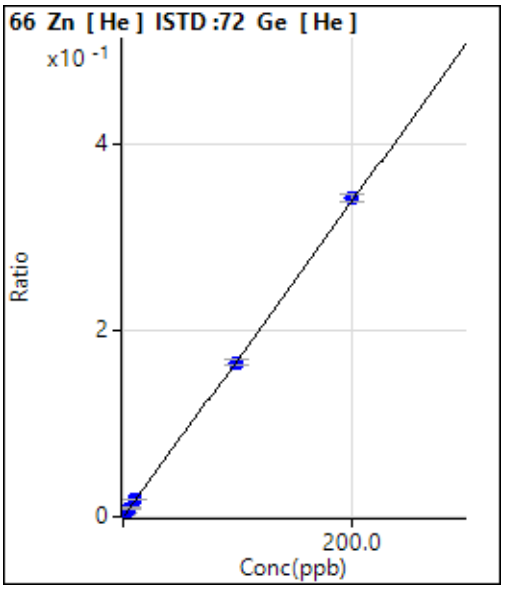
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2456.93 | 0.0009 | P | 5.3 | |
| 2 | ☐ | 2.000 | 2.026 | 10294.06 | 0.0037 | P | 4.1 | 1.3 |
| 3 | ☐ | 5.000 | 5.306 | 22809.26 | 0.0083 | P | 2.9 | 6.1 |
| 4 | ☐ | 10.000 | 10.338 | 41957.74 | 0.0154 | P | 2.6 | 3.4 |
| 5 | ☐ | 100.000 | 99.672 | 368847.17 | 0.1405 | P | 1.8 | -0.3 |
| 6 | ☐ | 200.000 | 200.139 | 715848.79 | 0.2813 | P | 1.0 | 0.1 |

y = 0.0014 * x + 8.8770E-004
R = 1.0000
DL = 0.1011 ppb
BEC = 0.6336 ppb

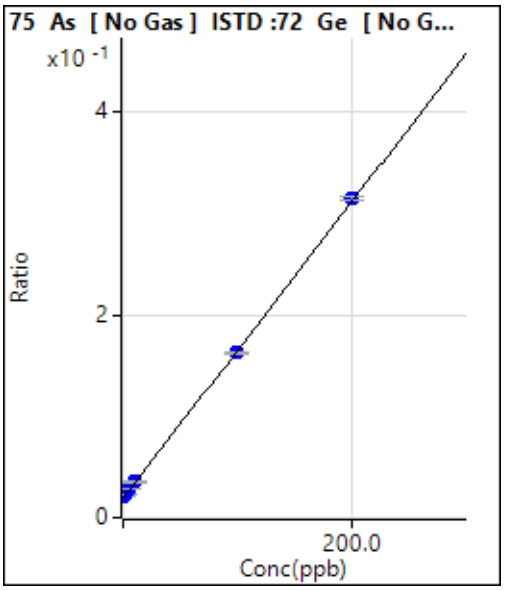
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 906.71 | 0.0012 | P | 7.6 | |
| 2 | ☐ | 2.000 | 2.012 | 3553.88 | 0.0046 | P | 3.1 | 0.6 |
| 3 | ☐ | 5.000 | 4.753 | 7145.32 | 0.0092 | P | 1.6 | -4.9 |
| 4 | ☐ | 10.000 | 9.920 | 13800.40 | 0.0179 | P | 2.4 | -0.8 |
| 5 | ☐ | 100.000 | 97.220 | 122634.62 | 0.1657 | P | 3.2 | -2.8 |
| 6 | ☐ | 200.000 | 201.400 | 247505.45 | 0.3420 | P | 2.0 | 0.7 |

y = 0.0017 * x + 0.0012
R = 0.9999
DL = 0.1563 ppb
BEC = 0.684 ppb

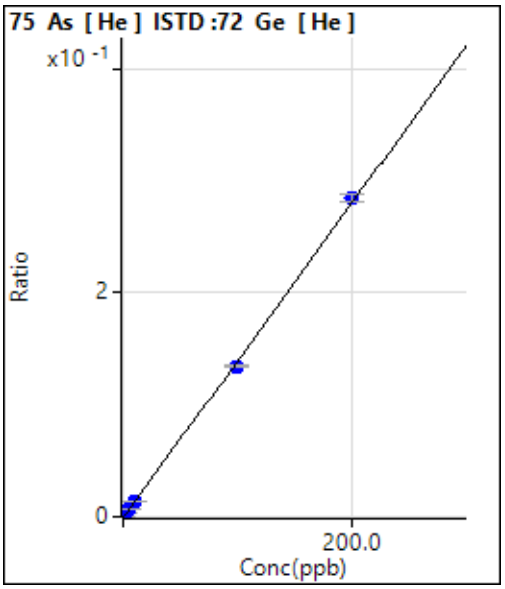
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 57340.72 | 0.0207 | P | 0.5 | |
| 2 | ☐ | 2.000 | 2.035 | 65440.12 | 0.0237 | P | 0.3 | 1.7 |
| 3 | ☐ | 5.000 | 5.200 | 77617.38 | 0.0283 | P | 1.1 | 4.0 |
| 4 | ☐ | 10.000 | 10.000 | 96456.09 | 0.0353 | P | 2.5 | 0.0 |
| 5 | ☐ | 100.000 | 97.055 | 426818.08 | 0.1626 | P | 1.6 | -2.9 |
| 6 | ☐ | 200.000 | 201.467 | 802394.62 | 0.3153 | P | 1.6 | 0.7 |

y = 0.0015 * x + 0.0207
R = 0.9998
DL = 0.2331 ppb
BEC = 14.17 ppb

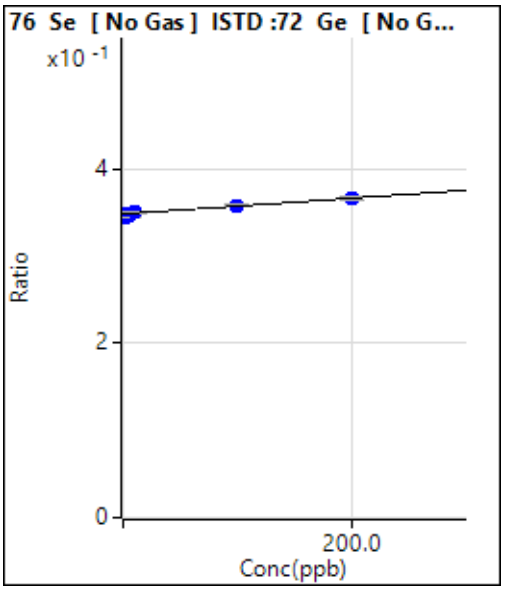
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 316.67 | 0.0004 | P | 7.2 | |
| 2 | ☐ | 2.000 | 1.966 | 2464.68 | 0.0032 | P | 3.0 | -1.7 |
| 3 | ☐ | 5.000 | 4.843 | 5595.62 | 0.0072 | P | 2.4 | -3.1 |
| 4 | ☐ | 10.000 | 9.642 | 10723.13 | 0.0139 | P | 2.2 | -3.6 |
| 5 | ☐ | 100.000 | 95.160 | 99197.46 | 0.1341 | P | 1.0 | -4.8 |
| 6 | ☐ | 200.000 | 202.442 | 206029.47 | 0.2847 | P | 2.4 | 1.2 |

y = 0.0014 * x + 4.0426E-004
R = 0.9996
DL = 0.06258 ppb
BEC = 0.2878 ppb

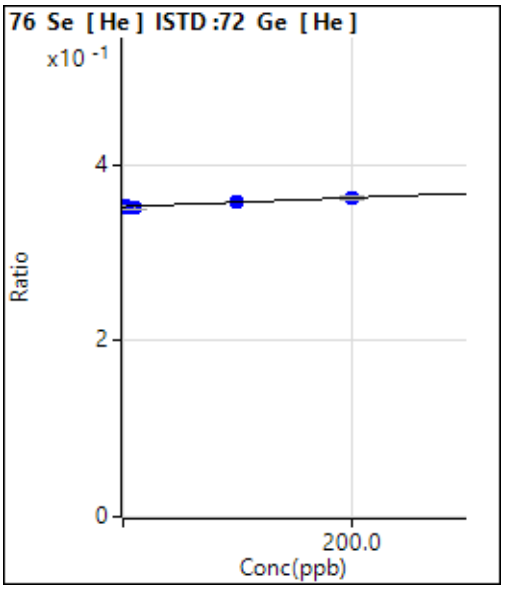
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 964449.83 | 0.3484 | P | 0.7 | |
| 2 | ☐ | 2.000 | -34.153 | 953861.89 | 0.3453 | P | 0.1 | -1807.7 |
| 3 | ☐ | 5.000 | -12.512 | 951751.63 | 0.3473 | P | 1.2 | -350.2 |
| 4 | ☐ | 10.000 | 22.069 | 956605.06 | 0.3504 | P | 0.7 | 120.7 |
| 5 | ☐ | 100.000 | 106.437 | 939797.64 | 0.3581 | P | 0.6 | 6.4 |
| 6 | ☐ | 200.000 | 196.977 | 932289.20 | 0.3664 | P | 1.0 | -1.5 |

y = 9.1040E-005 * x + 0.3484
R = 0.9813
DL = 76.06 ppb
BEC = 3827 ppb

Weight: <None>
Min Conc: <None>

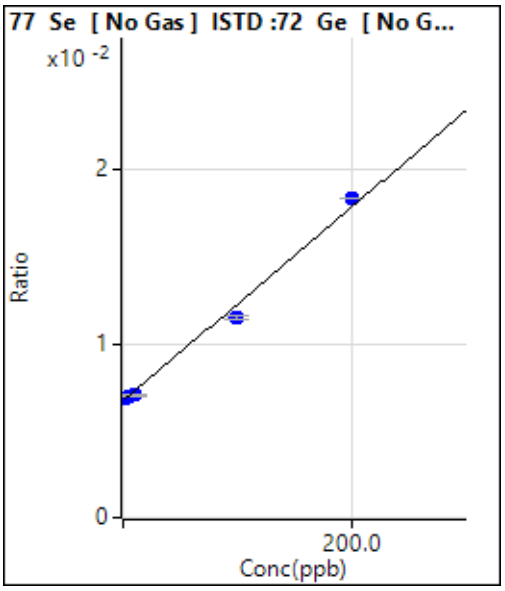



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 276120.31 | 0.3525 | P | 0.7 | |
| 2 | ☐ | 2.000 | 2.937 | 274652.09 | 0.3527 | P | 0.6 | 46.9 |
| 3 | ☐ | 5.000 | -19.736 | 272962.69 | 0.3515 | P | 0.2 | -494.7 |
| 4 | ☐ | 10.000 | -14.902 | 270475.83 | 0.3518 | P | 1.2 | -249.0 |
| 5 | ☐ | 100.000 | 116.662 | 265320.74 | 0.3586 | P | 0.2 | 16.7 |
| 6 | ☐ | 200.000 | 193.523 | 262331.56 | 0.3625 | P | 1.0 | -3.2 |

y = 5.1530E-005 * x + 0.3525
R = 0.9846
DL = 135.4 ppb
BEC = 6841 ppb

Weight: <None>
Min Conc: <None>

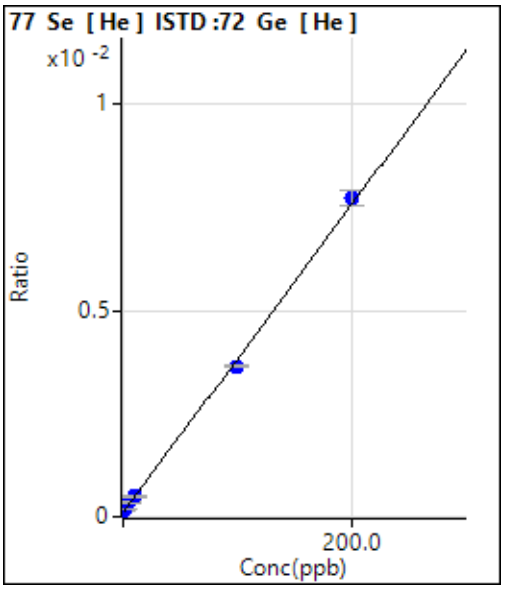
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 18893.33 | 0.0068 | P | 1.3 | |
| 2 | ☐ | 2.000 | 0.484 | 18926.85 | 0.0069 | P | 2.9 | -75.8 |
| 3 | ☐ | 5.000 | 3.393 | 19223.86 | 0.0070 | P | 1.9 | -32.1 |
| 4 | ☐ | 10.000 | 3.949 | 19230.54 | 0.0070 | P | 0.6 | -60.5 |
| 5 | ☐ | 100.000 | 84.919 | 30290.71 | 0.0115 | P | 2.3 | -15.1 |
| 6 | ☐ | 200.000 | 207.898 | 46760.28 | 0.0184 | P | 0.5 | 3.9 |

y = 5.5556E-005 * x + 0.0068
R = 0.9963
DL = 4.645 ppb
BEC = 122.9 ppb

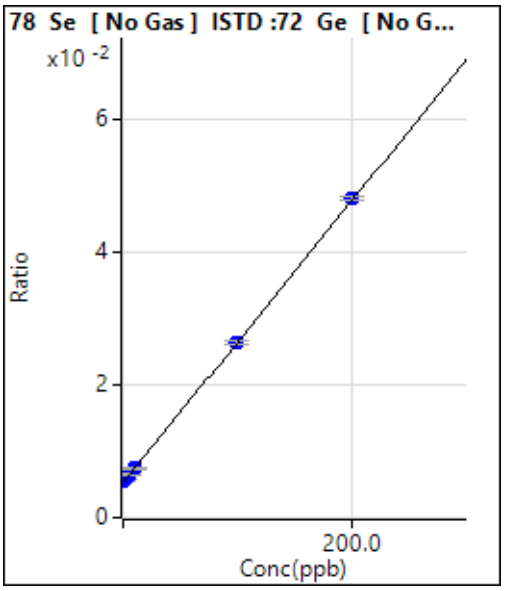
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 113.33 | 0.0001 | P | 4.8 | |
| 2 | ☐ | 2.000 | 1.171 | 146.67 | 0.0002 | P | 21.0 | -41.4 |
| 3 | ☐ | 5.000 | 5.674 | 276.68 | 0.0004 | P | 9.6 | 13.5 |
| 4 | ☐ | 10.000 | 9.252 | 376.68 | 0.0005 | P | 17.0 | -7.5 |
| 5 | ☐ | 100.000 | 93.540 | 2690.32 | 0.0036 | P | 1.4 | -6.5 |
| 6 | ☐ | 200.000 | 203.259 | 5594.58 | 0.0077 | P | 4.4 | 1.6 |

y = 3.7321E-005 * x + 1.4469E-004
R = 0.9993
DL = 0.5551 ppb
BEC = 3.877 ppb

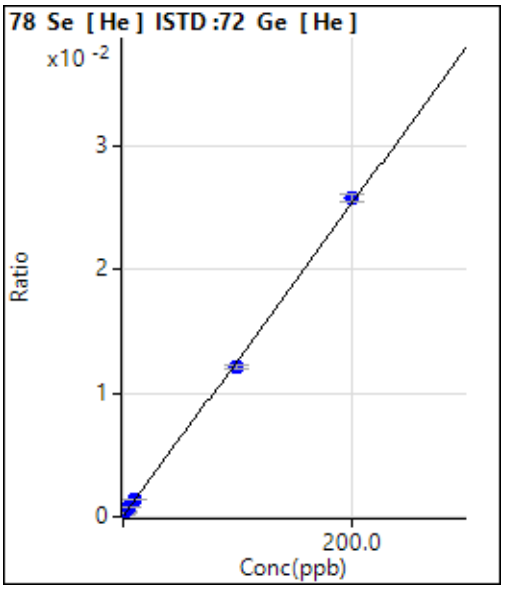
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 15248.81 | 0.0055 | P | 1.6 | |
| 2 | ☐ | 2.000 | 1.431 | 16053.06 | 0.0058 | P | 2.2 | -28.5 |
| 3 | ☐ | 5.000 | 4.536 | 17731.87 | 0.0065 | P | 3.1 | -9.3 |
| 4 | ☐ | 10.000 | 9.201 | 20355.46 | 0.0075 | P | 4.4 | -8.0 |
| 5 | ☐ | 100.000 | 98.554 | 69225.47 | 0.0264 | P | 1.5 | -1.4 |
| 6 | ☐ | 200.000 | 200.780 | 122204.65 | 0.0480 | P | 1.2 | 0.4 |

y = 2.1174E-004 * x + 0.0055
R = 1.0000
DL = 1.21 ppb
BEC = 26.02 ppb

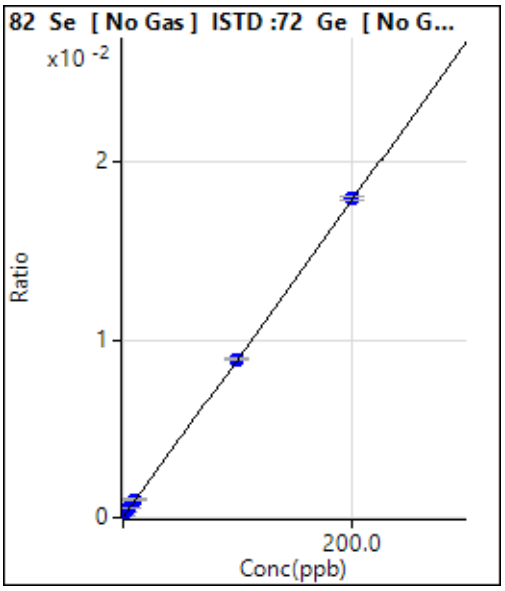
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 134.67 | 0.0002 | P | 9.2 | |
| 2 | ☐ | 2.000 | 1.723 | 303.34 | 0.0004 | P | 16.3 | -13.9 |
| 3 | ☐ | 5.000 | 4.697 | 594.01 | 0.0008 | P | 7.0 | -6.1 |
| 4 | ☐ | 10.000 | 9.783 | 1082.04 | 0.0014 | P | 5.0 | -2.2 |
| 5 | ☐ | 100.000 | 94.578 | 8966.30 | 0.0121 | P | 2.7 | -5.4 |
| 6 | ☐ | 200.000 | 202.732 | 18650.09 | 0.0258 | P | 2.3 | 1.4 |

y = 1.2629E-004 * x + 1.7189E-004
R = 0.9995
DL = 0.3746 ppb
BEC = 1.361 ppb

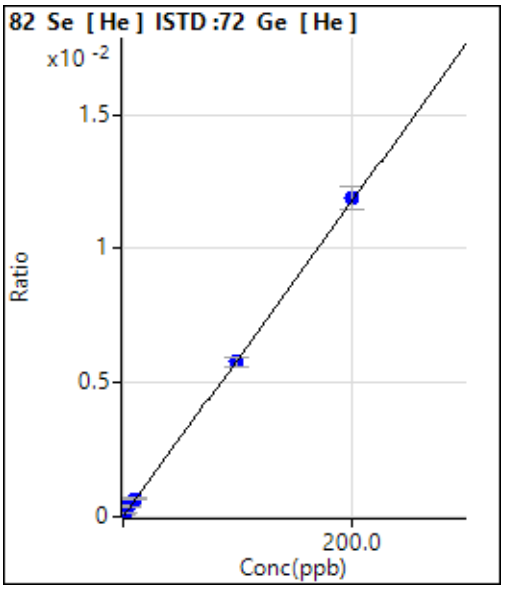
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 306.68 | 0.0001 | P | 16.5 | |
| 2 | ☐ | 2.000 | 1.873 | 766.70 | 0.0003 | P | 4.0 | -6.3 |
| 3 | ☐ | 5.000 | 5.107 | 1550.12 | 0.0006 | P | 4.5 | 2.1 |
| 4 | ☐ | 10.000 | 10.196 | 2780.35 | 0.0010 | P | 9.0 | 2.0 |
| 5 | ☐ | 100.000 | 98.931 | 23413.94 | 0.0089 | P | 2.0 | -1.1 |
| 6 | ☐ | 200.000 | 200.523 | 45723.90 | 0.0180 | P | 1.6 | 0.3 |

y = 8.9057E-005 * x + 1.1076E-004
R = 1.0000
DL = 0.6149 ppb
BEC = 1.244 ppb

Weight: <None>
Min Conc: <None>

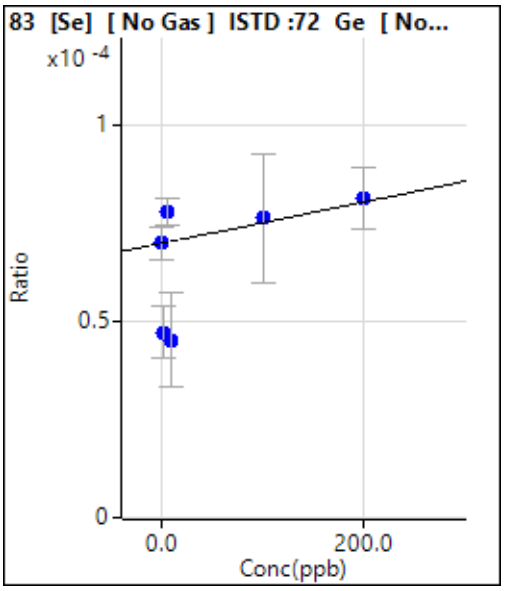



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 50.00 | 0.0001 | P | 34.9 | |
| 2 | ☐ | 2.000 | 1.681 | 126.67 | 0.0002 | P | 16.7 | -16.0 |
| 3 | ☐ | 5.000 | 6.072 | 326.68 | 0.0004 | P | 20.0 | 21.4 |
| 4 | ☐ | 10.000 | 10.420 | 520.02 | 0.0007 | P | 17.8 | 4.2 |
| 5 | ☐ | 100.000 | 97.308 | 4280.75 | 0.0058 | P | 6.3 | -2.7 |
| 6 | ☐ | 200.000 | 201.301 | 8609.59 | 0.0119 | P | 7.0 | 0.7 |

y = 5.8789E-005 * x + 6.3889E-005
R = 0.9998
DL = 1.137 ppb
BEC = 1.087 ppb

Weight: <None>
Min Conc: <None>

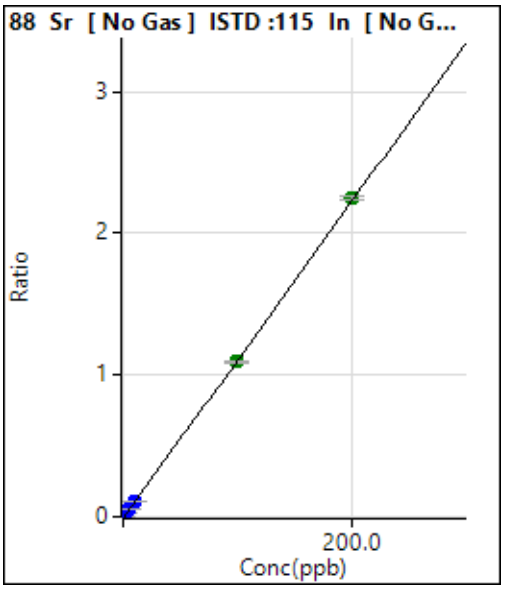
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 193.34 | 0.0001 | P | 12.2 | |
| 2 | ☐ | 2.000 | -431.078 | 130.00 | 0.0000 | P | 28.0 | -21653. |
| 3 | ☐ | 5.000 | 150.529 | 213.34 | 0.0001 | P | 9.1 | 2910.6 |
| 4 | ☐ | 10.000 | -466.543 | 123.33 | 0.0000 | P | 52.8 | -4765.4 |
| 5 | ☐ | 100.000 | 118.247 | 200.00 | 0.0001 | P | 42.7 | 18.2 |
| 6 | ☐ | 200.000 | 215.396 | 206.67 | 0.0001 | P | 19.7 | 7.7 |

y = 5.2823E-008 * x + 6.9859E-005
R = 0.5821
DL = 482.1 ppb
BEC = 1323 ppb

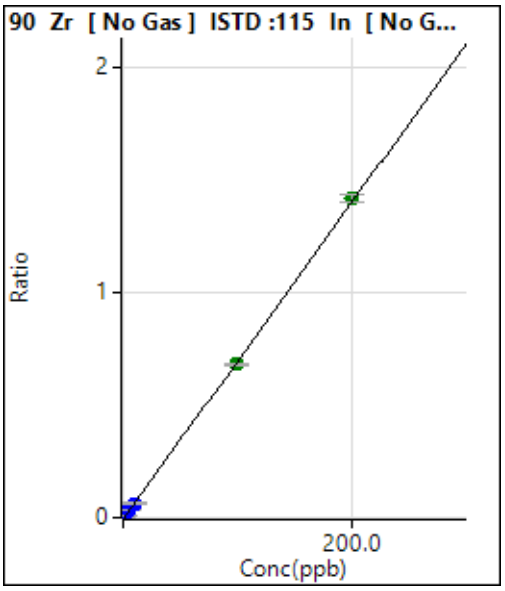
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2050.19 | 0.0006 | P | 8.6 | |
| 2 | ☐ | 2.000 | 1.968 | 81035.10 | 0.0226 | P | 1.6 | -1.6 |
| 3 | ☐ | 5.000 | 4.962 | 200779.89 | 0.0560 | P | 3.4 | -0.8 |
| 4 | ☐ | 10.000 | 9.858 | 398184.94 | 0.1108 | P | 1.7 | -1.4 |
| 5 | ☐ | 100.000 | 97.569 | 3725471.09 | 1.0912 | A | 2.1 | -2.4 |
| 6 | ☐ | 200.000 | 201.224 | 7444901.76 | 2.2499 | A | 1.4 | 0.6 |

y = 0.0112 * x + 5.7259E-004
R = 0.9999
DL = 0.01323 ppb
BEC = 0.05122 ppb

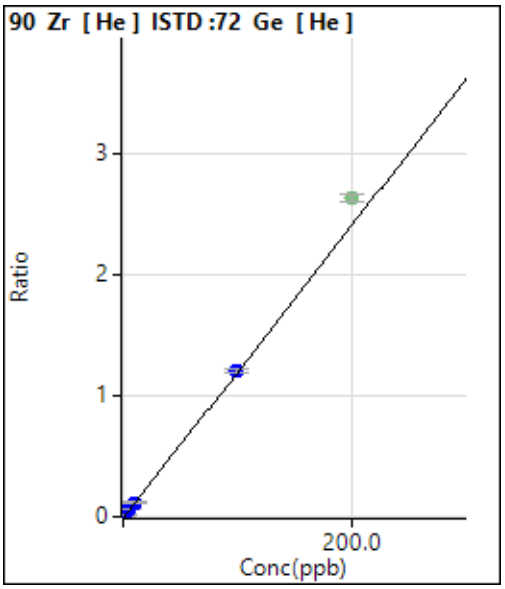
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1160.07 | 0.0003 | P | 2.5 | |
| 2 | ☐ | 2.000 | 1.612 | 41905.50 | 0.0117 | P | 3.8 | -19.4 |
| 3 | ☐ | 5.000 | 4.333 | 110428.43 | 0.0308 | P | 2.1 | -13.3 |
| 4 | ☐ | 10.000 | 9.034 | 229720.13 | 0.0639 | P | 1.5 | -9.7 |
| 5 | ☐ | 100.000 | 96.694 | 2324542.26 | 0.6809 | A | 2.2 | -3.3 |
| 6 | ☐ | 200.000 | 201.722 | 4698977.22 | 1.4201 | A | 1.9 | 0.9 |

y = 0.0070 * x + 3.2394E-004
R = 0.9998
DL = 0.003504 ppb
BEC = 0.04603 ppb

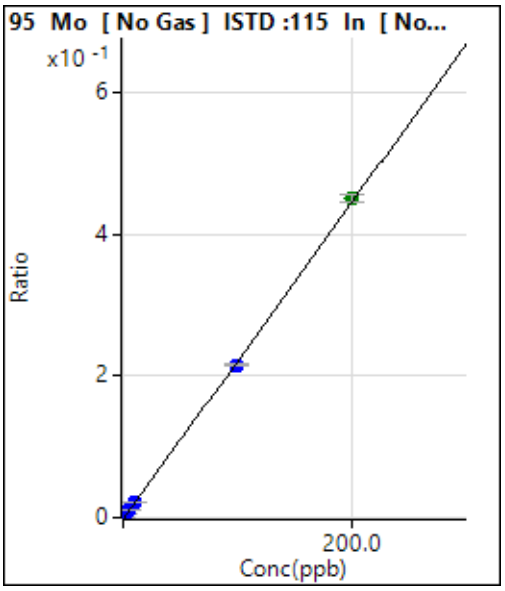
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1343.43 | 0.0017 | P | 10.7 | |
| 2 | ☐ | 2.000 | 1.668 | 17021.02 | 0.0219 | P | 1.2 | -16.6 |
| 3 | ☐ | 5.000 | 4.578 | 44252.81 | 0.0570 | P | 1.7 | -8.4 |
| 4 | ☐ | 10.000 | 9.688 | 91260.17 | 0.1187 | P | 2.0 | -3.1 |
| 5 | ☐ | 100.000 | 100.059 | 895303.56 | 1.2098 | P | 2.6 | 0.1 |
| 6 | ☑ | 200.000 | | 1904685.70 | 2.6322 | A | 2.4 | |

y = 0.0121 * x + 0.0017
R = 1.0000
DL = 0.04578 ppb
BEC = 0.1421 ppb

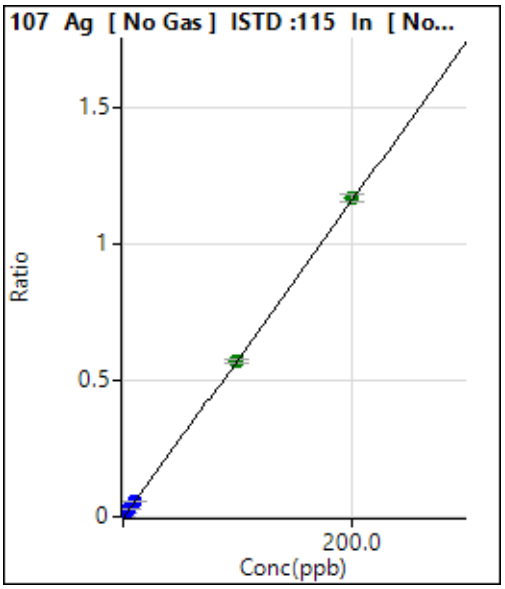
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 233.34 | 0.0001 | P | 27.6 | |
| 2 | ☐ | 2.000 | 1.858 | 15132.06 | 0.0042 | P | 3.4 | -7.1 |
| 3 | ☐ | 5.000 | 4.755 | 38274.67 | 0.0107 | P | 3.6 | -4.9 |
| 4 | ☐ | 10.000 | 9.406 | 75722.19 | 0.0211 | P | 2.4 | -5.9 |
| 5 | ☐ | 100.000 | 96.579 | 736414.84 | 0.2157 | P | 2.3 | -3.4 |
| 6 | ☐ | 200.000 | 201.748 | 1490733.83 | 0.4505 | A | 2.2 | 0.9 |

y = 0.0022 * x + 6.5128E-005
R = 0.9998
DL = 0.0242 ppb
BEC = 0.02917 ppb

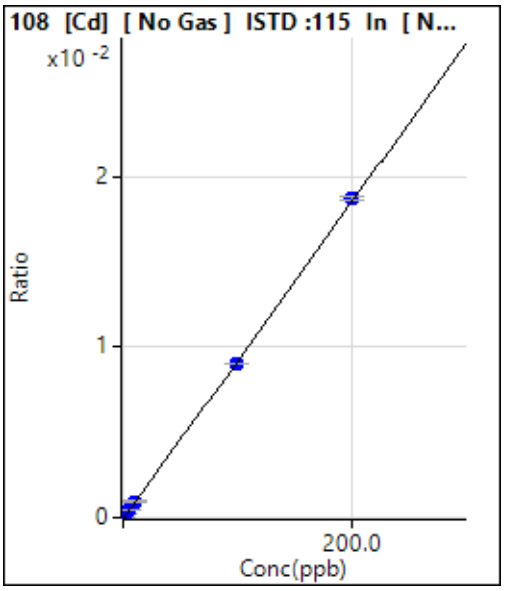
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 796.70 | 0.0002 | P | 12.6 | |
| 2 | ☐ | 2.000 | 1.995 | 42544.71 | 0.0118 | P | 3.3 | -0.2 |
| 3 | ☐ | 5.000 | 5.072 | 106669.91 | 0.0298 | P | 2.2 | 1.4 |
| 4 | ☐ | 10.000 | 10.013 | 210517.69 | 0.0586 | P | 2.7 | 0.1 |
| 5 | ☐ | 100.000 | 98.055 | 1951426.84 | 0.5716 | A | 2.0 | -1.9 |
| 6 | ☐ | 200.000 | 200.970 | 3875701.51 | 1.1713 | A | 1.9 | 0.5 |

y = 0.0058 * x + 2.2243E-004
R = 0.9999
DL = 0.01448 ppb
BEC = 0.03817 ppb

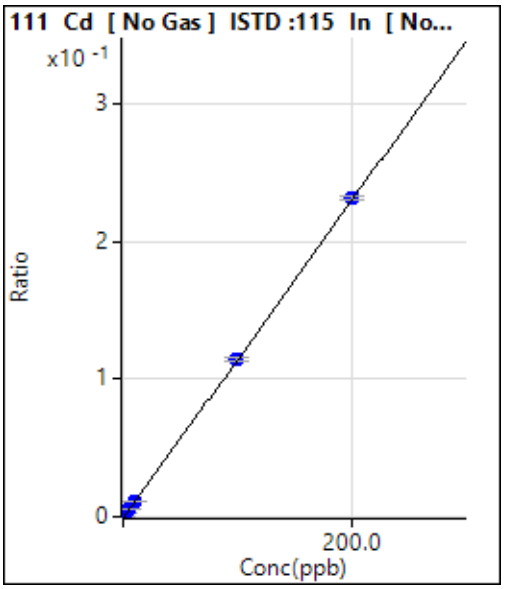
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 10.00 | 0.0000 | P | 0.3 | |
| 2 | ☐ | 2.000 | 2.067 | 700.03 | 0.0002 | P | 18.7 | 3.3 |
| 3 | ☐ | 5.000 | 5.152 | 1726.81 | 0.0005 | P | 5.2 | 3.0 |
| 4 | ☐ | 10.000 | 10.151 | 3403.84 | 0.0009 | P | 3.3 | 1.5 |
| 5 | ☐ | 100.000 | 97.092 | 30835.77 | 0.0090 | P | 0.4 | -2.9 |
| 6 | ☐ | 200.000 | 201.442 | 61997.17 | 0.0187 | P | 1.8 | 0.7 |

y = 9.2995E-005 * x + 2.7925E-006
R = 0.9998
DL = 0.0002487 ppb
BEC = 0.03003 ppb

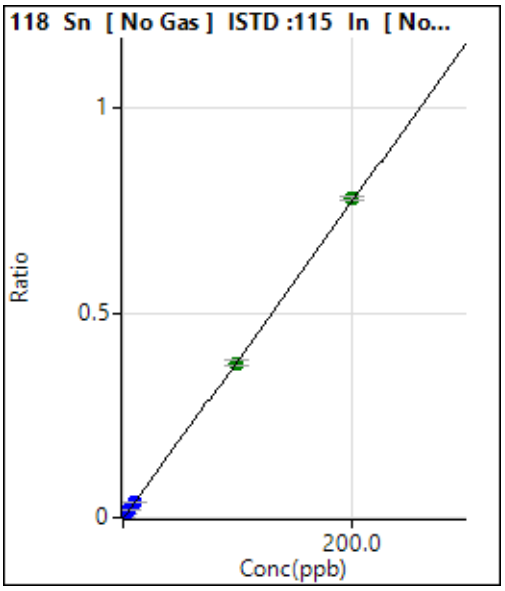
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 79.27 | 0.0000 | P | 25.2 | |
| 2 | ☐ | 2.000 | 1.919 | 8051.91 | 0.0022 | P | 6.9 | -4.1 |
| 3 | ☐ | 5.000 | 4.933 | 20522.90 | 0.0057 | P | 3.4 | -1.3 |
| 4 | ☐ | 10.000 | 9.798 | 40825.51 | 0.0114 | P | 2.4 | -2.0 |
| 5 | ☐ | 100.000 | 98.739 | 390069.23 | 0.1143 | P | 2.0 | -1.3 |
| 6 | ☐ | 200.000 | 200.643 | 768181.74 | 0.2321 | P | 1.2 | 0.3 |

y = 0.0012 * x + 2.2138E-005
R = 1.0000
DL = 0.01449 ppb
BEC = 0.01914 ppb

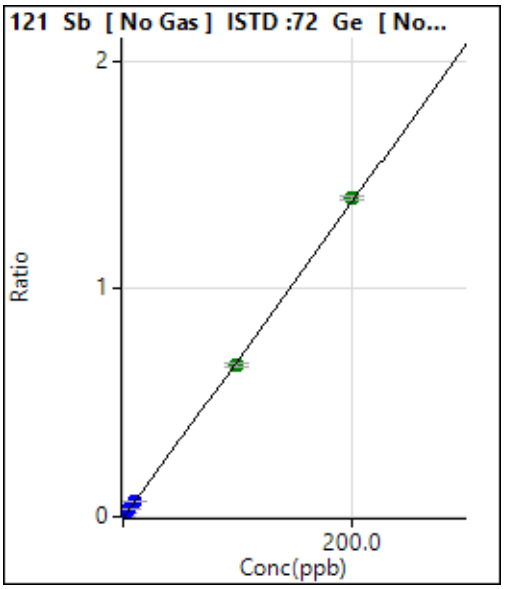
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3933.98 | 0.0011 | P | 5.3 | |
| 2 | ☐ | 2.000 | 1.961 | 31170.16 | 0.0087 | P | 0.7 | -2.0 |
| 3 | ☐ | 5.000 | 4.885 | 71599.30 | 0.0200 | P | 0.9 | -2.3 |
| 4 | ☐ | 10.000 | 9.745 | 139404.93 | 0.0388 | P | 2.1 | -2.6 |
| 5 | ☐ | 100.000 | 97.395 | 1289413.81 | 0.3777 | A | 3.0 | -2.6 |
| 6 | ☐ | 200.000 | 201.318 | 2579378.76 | 0.7795 | A | 1.4 | 0.7 |

y = 0.0039 * x + 0.0011
R = 0.9999
DL = 0.04483 ppb
BEC = 0.2841 ppb

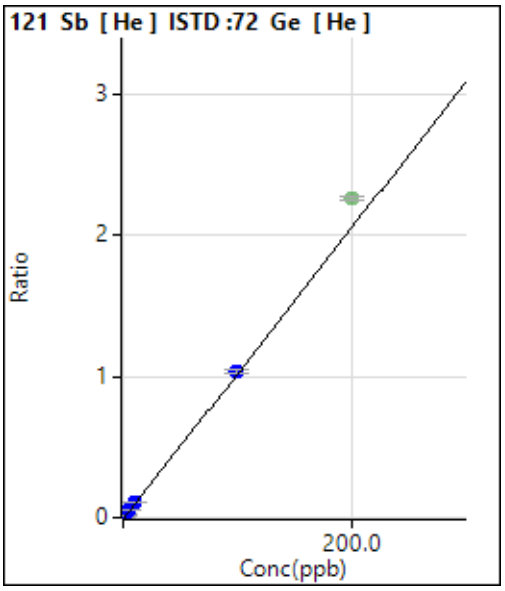
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 880.05 | 0.0003 | P | 10.9 | |
| 2 | ☐ | 2.000 | 1.891 | 37092.18 | 0.0134 | P | 2.4 | -5.5 |
| 3 | ☐ | 5.000 | 4.830 | 92645.46 | 0.0338 | P | 1.3 | -3.4 |
| 4 | ☐ | 10.000 | 9.763 | 185632.76 | 0.0680 | P | 2.2 | -2.4 |
| 5 | ☐ | 100.000 | 96.300 | 1753151.12 | 0.6680 | A | 2.0 | -3.7 |
| 6 | ☐ | 200.000 | 201.867 | 3562489.53 | 1.3999 | A | 0.8 | 0.9 |

y = 0.0069 * x + 3.1794E-004
R = 0.9998
DL = 0.01495 ppb
BEC = 0.04586 ppb

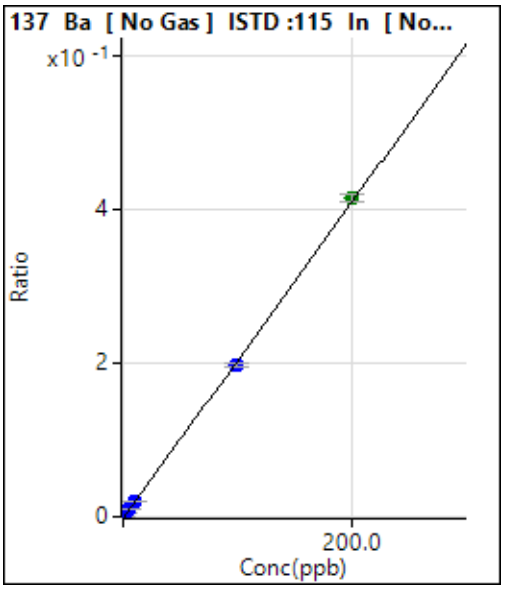
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 333.34 | 0.0004 | P | 19.8 | |
| 2 | ☐ | 2.000 | 1.960 | 16106.68 | 0.0207 | P | 2.5 | -2.0 |
| 3 | ☐ | 5.000 | 4.984 | 40335.00 | 0.0519 | P | 1.6 | -0.3 |
| 4 | ☐ | 10.000 | 10.302 | 82207.29 | 0.1069 | P | 3.4 | 3.0 |
| 5 | ☐ | 100.000 | 99.971 | 765101.92 | 1.0339 | P | 2.5 | 0.0 |
| 6 | ☑ | 200.000 | | 1639505.24 | 2.2657 | A | 0.9 | |

y = 0.0103 * x + 4.2551E-004
R = 1.0000
DL = 0.0244 ppb
BEC = 0.04116 ppb

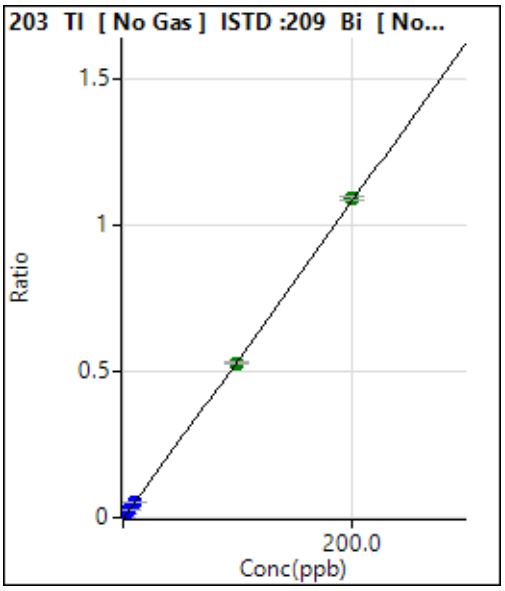
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 650.03 | 0.0002 | P | 13.1 | |
| 2 | ☐ | 2.000 | 1.939 | 14928.66 | 0.0042 | P | 2.0 | -3.1 |
| 3 | ☐ | 5.000 | 4.797 | 35889.37 | 0.0100 | P | 1.5 | -4.1 |
| 4 | ☐ | 10.000 | 9.545 | 71008.44 | 0.0198 | P | 2.4 | -4.5 |
| 5 | ☐ | 100.000 | 96.246 | 674393.61 | 0.1975 | P | 1.8 | -3.8 |
| 6 | ☐ | 200.000 | 201.906 | 1370541.07 | 0.4142 | A | 2.1 | 1.0 |

y = 0.0021 * x + 1.8147E-004
R = 0.9998
DL = 0.03472 ppb
BEC = 0.0885 ppb

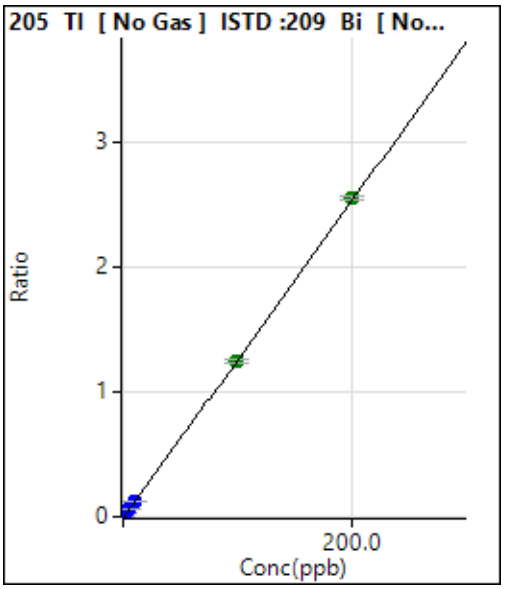
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 783.38 | 0.0002 | P | 12.8 | |
| 2 | ☐ | 2.000 | 1.983 | 40632.33 | 0.0110 | P | 2.1 | -0.9 |
| 3 | ☐ | 5.000 | 4.999 | 101224.34 | 0.0273 | P | 2.8 | 0.0 |
| 4 | ☐ | 10.000 | 9.974 | 201815.17 | 0.0543 | P | 1.1 | -0.3 |
| 5 | ☐ | 100.000 | 97.555 | 1894447.94 | 0.5296 | A | 2.3 | -2.4 |
| 6 | ☐ | 200.000 | 201.224 | 3786081.09 | 1.0921 | A | 1.2 | 0.6 |

y = 0.0054 * x + 2.1055E-004
R = 0.9999
DL = 0.01485 ppb
BEC = 0.0388 ppb

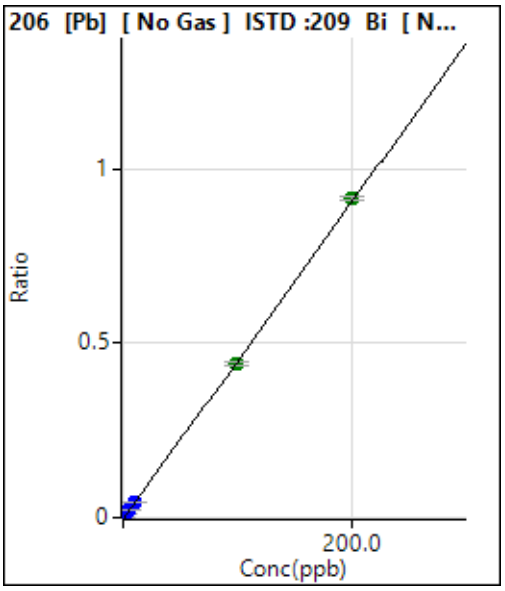
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1563.46 | 0.0004 | P | 15.3 | |
| 2 | ☐ | 2.000 | 2.018 | 96544.71 | 0.0261 | P | 2.2 | 0.9 |
| 3 | ☐ | 5.000 | 5.092 | 241227.03 | 0.0651 | P | 2.4 | 1.8 |
| 4 | ☐ | 10.000 | 10.148 | 480696.61 | 0.1294 | P | 1.7 | 1.5 |
| 5 | ☐ | 100.000 | 97.989 | 4457224.10 | 1.2459 | A | 2.1 | -2.0 |
| 6 | ☐ | 200.000 | 200.996 | 8858542.16 | 2.5552 | A | 1.5 | 0.5 |

y = 0.0127 * x + 4.2015E-004
R = 0.9999
DL = 0.01513 ppb
BEC = 0.03305 ppb

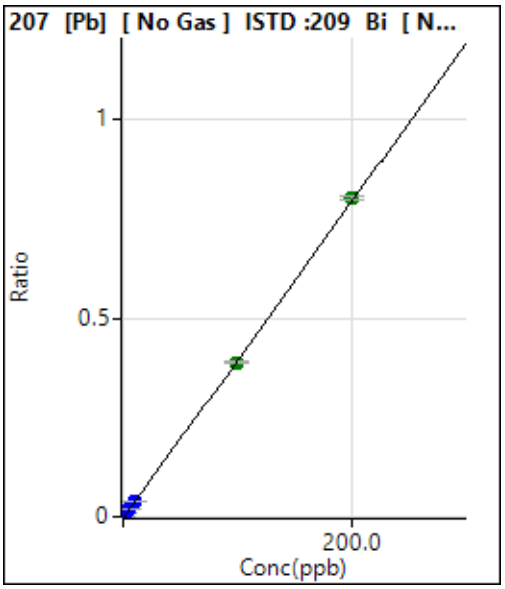
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 773.37 | 0.0002 | P | 15.5 | |
| 2 | ☐ | 2.000 | 1.955 | 33642.00 | 0.0091 | P | 1.9 | -2.2 |
| 3 | ☐ | 5.000 | 4.954 | 84019.85 | 0.0227 | P | 3.1 | -0.9 |
| 4 | ☐ | 10.000 | 10.031 | 169887.31 | 0.0457 | P | 1.2 | 0.3 |
| 5 | ☐ | 100.000 | 97.040 | 1576359.19 | 0.4406 | A | 2.0 | -3.0 |
| 6 | ☐ | 200.000 | 201.480 | 3171026.00 | 0.9147 | A | 1.7 | 0.7 |

y = 0.0045 * x + 2.0792E-004
R = 0.9998
DL = 0.02134 ppb
BEC = 0.04581 ppb

Weight: <None>
Min Conc: <None>

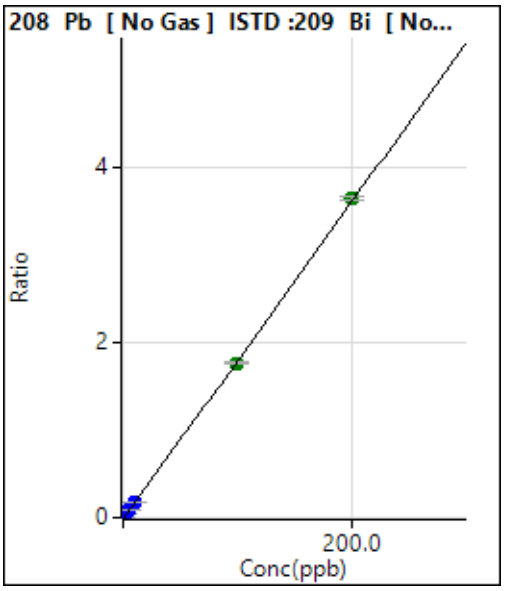



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 693.37 | 0.0002 | P | 9.8 | |
| 2 | ☐ | 2.000 | 1.998 | 30213.19 | 0.0082 | P | 1.8 | -0.1 |
| 3 | ☐ | 5.000 | 4.954 | 73852.60 | 0.0199 | P | 1.3 | -0.9 |
| 4 | ☐ | 10.000 | 9.884 | 147132.54 | 0.0396 | P | 1.0 | -1.2 |
| 5 | ☐ | 100.000 | 97.288 | 1388849.67 | 0.3882 | A | 1.7 | -2.7 |
| 6 | ☐ | 200.000 | 201.363 | 2785032.87 | 0.8033 | A | 1.1 | 0.7 |

y = 0.0040 * x + 1.8639E-004
R = 0.9999
DL = 0.01374 ppb
BEC = 0.04673 ppb

Weight: <None>
Min Conc: <None>

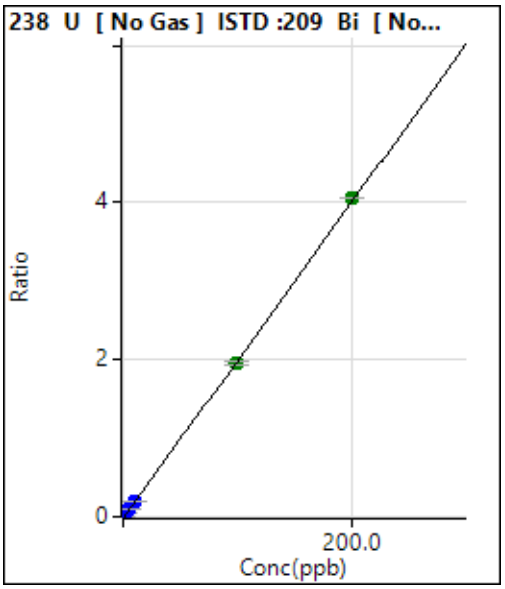
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3066.87 | 0.0008 | P | 5.7 | |
| 2 | ☐ | 2.000 | 1.966 | 135324.42 | 0.0365 | P | 1.8 | -1.7 |
| 3 | ☐ | 5.000 | 4.948 | 335773.60 | 0.0907 | P | 2.2 | -1.0 |
| 4 | ☐ | 10.000 | 9.957 | 674750.46 | 0.1817 | P | 1.4 | -0.4 |
| 5 | ☐ | 100.000 | 97.556 | 6341054.44 | 1.7725 | A | 2.0 | -2.4 |
| 6 | ☐ | 200.000 | 201.226 | 12672095.02 | 3.6552 | A | 1.2 | 0.6 |

y = 0.0182 * x + 8.2440E-004
R = 0.9999
DL = 0.00771 ppb
BEC = 0.04539 ppb

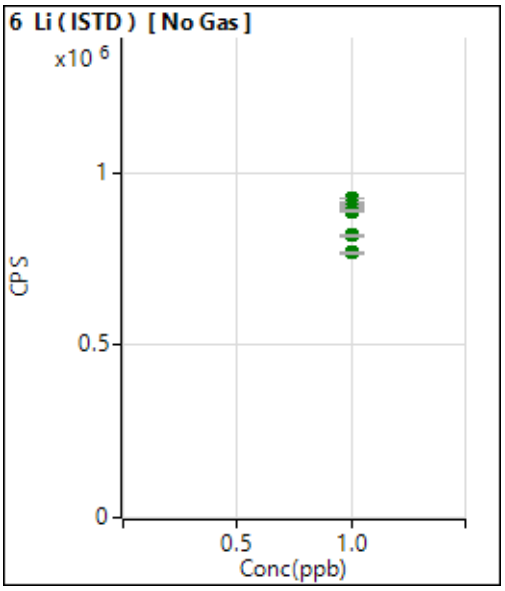
Weight: <None>
Min Conc: <None>



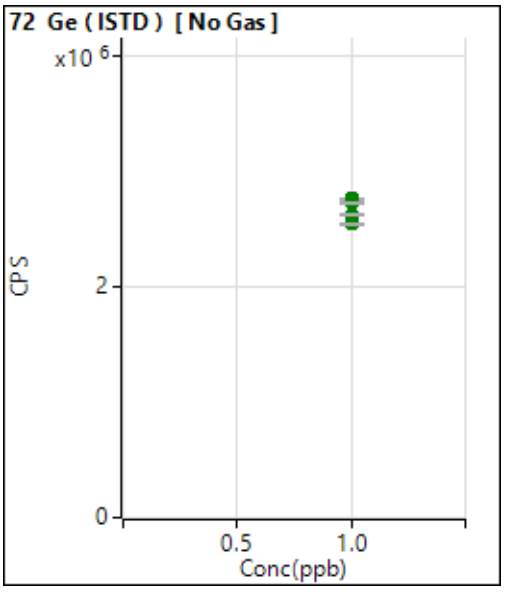

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1900.18 | 0.0005 | P | 2.5 | |
| 2 | ☐ | 2.000 | 1.845 | 139419.83 | 0.0376 | P | 1.9 | -7.7 |
| 3 | ☐ | 5.000 | 4.733 | 354555.30 | 0.0958 | P | 1.4 | -5.3 |
| 4 | ☐ | 10.000 | 9.462 | 709163.35 | 0.1909 | P | 1.1 | -5.4 |
| 5 | ☐ | 100.000 | 96.705 | 6963452.81 | 1.9465 | A | 2.5 | -3.3 |
| 6 | ☐ | 200.000 | 201.683 | 14071646.46 | 4.0590 | A | 0.4 | 0.8 |

y = 0.0201 * x + 5.1076E-004
R = 0.9998
DL = 0.001885 ppb
BEC = 0.02538 ppb

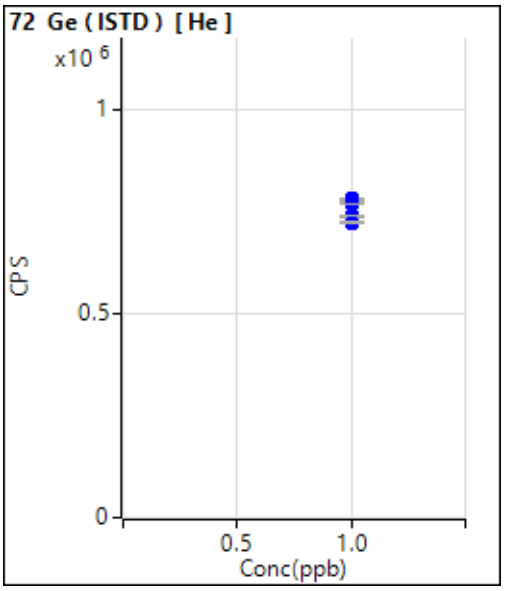
Weight: <None>
Min Conc: <None>



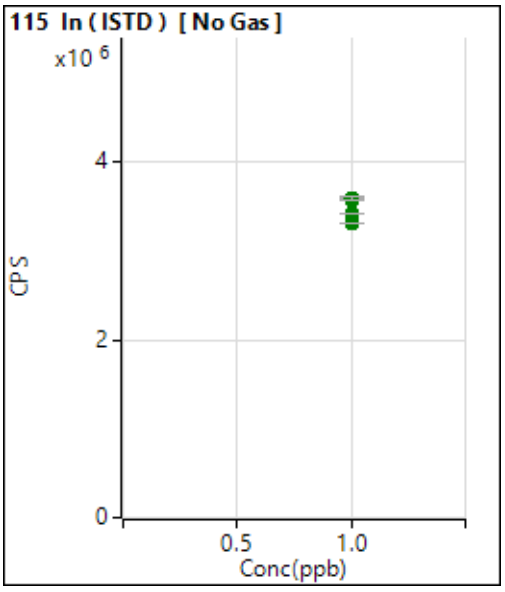

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 925046.91 | | A | 0.3 | |
| 2 | ☐ | 1.000 | | 910090.95 | | A | 0.3 | |
| 3 | ☐ | 1.000 | | 898410.34 | | A | 0.6 | |
| 4 | ☐ | 1.000 | | 887536.48 | | A | 0.6 | |
| 5 | ☐ | 1.000 | | 816416.59 | | A | 0.7 | |
| 6 | ☐ | 1.000 | | 766281.29 | | A | 0.3 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 2767984.33 | | A | 0.3 | |
| 2 | ☐ | 1.000 | | 2762231.42 | | A | 0.4 | |
| 3 | ☐ | 1.000 | | 2740635.27 | | A | 0.7 | |
| 4 | ☐ | 1.000 | | 2729773.60 | | A | 0.5 | |
| 5 | ☐ | 1.000 | | 2624311.16 | | A | 0.8 | |
| 6 | ☐ | 1.000 | | 2544719.96 | | A | 0.4 | |

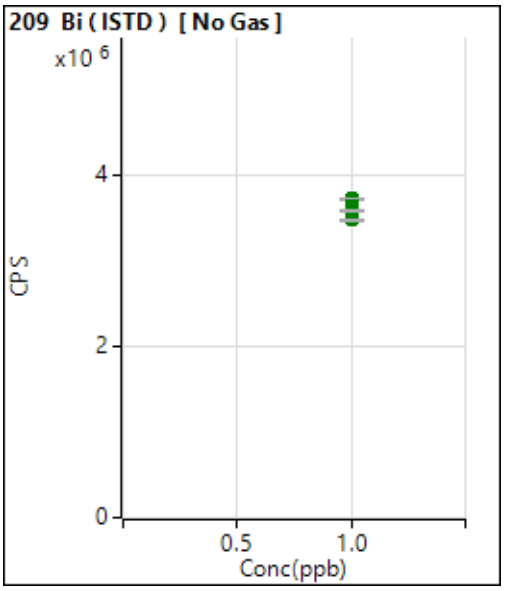



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 783220.07 | | P | 0.6 | |
| 2 | ☐ | 1.000 | | 778735.46 | | P | 0.3 | |
| 3 | ☐ | 1.000 | | 776516.79 | | P | 0.6 | |
| 4 | ☐ | 1.000 | | 768900.07 | | P | 0.2 | |
| 5 | ☐ | 1.000 | | 739983.09 | | P | 0.6 | |
| 6 | ☐ | 1.000 | | 723640.25 | | P | 0.4 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3581092.47 | | A | 0.3 | |
| 2 | ☐ | 1.000 | | 3590901.90 | | A | 0.1 | |
| 3 | ☐ | 1.000 | | 3582606.62 | | A | 0.3 | |
| 4 | ☐ | 1.000 | | 3594961.40 | | A | 0.7 | |
| 5 | ☐ | 1.000 | | 3414111.39 | | A | 0.1 | |
| 6 | ☐ | 1.000 | | 3309119.69 | | A | 0.3 | |

Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3720386.09 | | A | 0.2 | |
| 2 | ☐ | 1.000 | | 3704045.15 | | A | 0.8 | |
| 3 | ☐ | 1.000 | | 3702864.53 | | A | 0.7 | |
| 4 | ☐ | 1.000 | | 3714470.67 | | A | 0.2 | |
| 5 | ☐ | 1.000 | | 3577512.03 | | A | 0.3 | |
| 6 | ☐ | 1.000 | | 3466716.51 | | A | 0.4 | |

# Calibration Blank Report

**Sample Table**

| | |
|---|---|
| Sample Name | CAL BLK |
| Data File Name | 010CALB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T10:48:54-05:00 |
| Sample Type | CalBlk |
| Level | 1 |
| Dilution | 1 |
| Comment | |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 53694 | 0.00 |
| Be | 9 | 1 | No Gas | 93 | 23.20 |
| V | 51 | 2 | He | 7210 | 0.04 |
| Cr | 52 | 2 | He | 7609 | 0.07 |
| Fe | 56 | 2 | He | 19895 | 0.01 |
| Se | 78 | 2 | He | 135 | 7.18 |
| As | 75 | 2 | He | 317 | 2.40 |
| Ca | 44 | 2 | He | 607 | 0.68 |
| Na | 23 | 2 | He | 68034 | 0.00 |
| Mg | 24 | 2 | He | 1630 | 0.46 |
| K | 39 | 2 | He | 86239 | 0.00 |
| Mn | 55 | 2 | He | 777 | 1.43 |
| Co | 59 | 2 | He | 320 | 2.58 |
| Ni | 60 | 2 | He | 263 | 5.06 |
| Cu | 63 | 2 | He | 600 | 1.69 |
| Zn | 66 | 2 | He | 907 | 0.83 |
| Al | 27 | 2 | He | 930 | 0.95 |
| B | 11 | 1 | No Gas | 10486 | 0.01 |
| Al | 27 | 1 | No Gas | 34102 | 0.01 |
| Si | 28 | 1 | No Gas | 259377 | 0.00 |
| Ag | 107 | 1 | No Gas | 797 | 1.62 |
| Cd | 111 | 1 | No Gas | 79 | 31.83 |
| Sr | 88 | 1 | No Gas | 2050 | 0.41 |
| Mo | 95 | 1 | No Gas | 233 | 11.95 |
| Sn | 118 | 1 | No Gas | 3934 | 0.13 |
| Sb | 121 | 1 | No Gas | 880 | 1.23 |
| Ba | 137 | 1 | No Gas | 650 | 2.05 |
| Tl | 205 | 1 | No Gas | 1563 | 0.99 |
| Tl | 203 | 1 | No Gas | 783 | 1.64 |
| Pb | 208 | 1 | No Gas | 3067 | 0.18 |
| U | 238 | 1 | No Gas | 1900 | 0.12 |
| Ca | 43 | 2 | He | 43 | 134.02 |
| Sb | 121 | 2 | He | 333 | 5.99 |
| Ti | 47 | 2 | He | 10 | 1732.05 |
| Cu | 63 | 1 | No Gas | 1627 | 0.30 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|

# Calibration Blank Report

| | | | | | |
|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 925047 | 0.30 |
| Ge | 72 | 2 | He | 783220 | 0.56 |
| Ge | 72 | 1 | No Gas | 2767984 | 0.33 |
| In | 115 | 1 | No Gas | 3581092 | 0.28 |

# Calibration Blank Report

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 3720386 | 0.21 |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 2/10/200 |
| Data File Name | 011CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T10:51:37-05:00 |
| Sample Type | CalStd |
| Level | 2 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 6487 | 0.05 |
| V | 51 | 2 | He | 18096 | 0.01 |
| Cr | 52 | 2 | He | 19941 | 0.01 |
| Fe | 56 | 2 | He | 1196572 | 0.00 |
| Se | 78 | 2 | He | 303 | 5.40 |
| As | 75 | 2 | He | 2465 | 0.11 |
| Ca | 44 | 2 | He | 7986 | 0.09 |
| Na | 23 | 2 | He | 241881 | 0.00 |
| Mg | 24 | 2 | He | 109587 | 0.00 |
| K | 39 | 2 | He | 222089 | 0.00 |
| Mn | 55 | 2 | He | 10347 | 0.05 |
| Co | 59 | 2 | He | 19307 | 0.01 |
| Ni | 60 | 2 | He | 5238 | 0.05 |
| Cu | 63 | 2 | He | 14181 | 0.03 |
| Zn | 66 | 2 | He | 3554 | 0.08 |
| Al | 27 | 2 | He | 1537 | 0.28 |
| B | 11 | 1 | No Gas | 27001 | 0.01 |
| Al | 27 | 1 | No Gas | 65264 | 0.00 |
| Si | 28 | 1 | No Gas | 336928 | 0.00 |
| Ag | 107 | 1 | No Gas | 42545 | 0.01 |
| Cd | 111 | 1 | No Gas | 8052 | 0.09 |
| Sr | 88 | 1 | No Gas | 81035 | 0.00 |
| Mo | 95 | 1 | No Gas | 15132 | 0.02 |
| Sn | 118 | 1 | No Gas | 31170 | 0.00 |
| Sb | 121 | 1 | No Gas | 37092 | 0.01 |
| Ba | 137 | 1 | No Gas | 14929 | 0.01 |
| Tl | 205 | 1 | No Gas | 96545 | 0.00 |
| Tl | 203 | 1 | No Gas | 40632 | 0.01 |
| Pb | 208 | 1 | No Gas | 135324 | 0.00 |
| U | 238 | 1 | No Gas | 139420 | 0.00 |
| Ca | 43 | 2 | He | 477 | 2.86 |
| Sb | 121 | 2 | He | 16107 | 0.01 |
| Cu | 63 | 1 | No Gas | 31429 | 0.01 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 910091 | 0.25 | 925047 | 98.38 | 70 | 120 | |
| Ge | 72 | 2 | He | 778735 | 0.35 | 783220 | 99.43 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2762231 | 0.37 | 2767984 | 99.79 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3590902 | 0.11 | 3581092 | 100.27 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3704045 | 0.84 | 3720386 | 99.56 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 5/25/500 |
| Data File Name | 012CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T10:54:18-05:00 |
| Sample Type | CalStd |
| Level | 3 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 15916 | 0.03 |
| V | 51 | 2 | He | 34195 | 0.01 |
| Cr | 52 | 2 | He | 38614 | 0.00 |
| Fe | 56 | 2 | He | 3026577 | 0.00 |
| Se | 78 | 2 | He | 594 | 1.13 |
| As | 75 | 2 | He | 5596 | 0.05 |
| Ca | 44 | 2 | He | 18499 | 0.02 |
| Na | 23 | 2 | He | 512047 | 0.00 |
| Mg | 24 | 2 | He | 279702 | 0.00 |
| K | 39 | 2 | He | 430864 | 0.00 |
| Mn | 55 | 2 | He | 25090 | 0.02 |
| Co | 59 | 2 | He | 49051 | 0.00 |
| Ni | 60 | 2 | He | 12756 | 0.01 |
| Cu | 63 | 2 | He | 34728 | 0.00 |
| Zn | 66 | 2 | He | 7145 | 0.02 |
| Al | 27 | 2 | He | 2707 | 0.07 |
| B | 11 | 1 | No Gas | 53607 | 0.01 |
| Al | 27 | 1 | No Gas | 106947 | 0.00 |
| Si | 28 | 1 | No Gas | 448740 | 0.00 |
| Ag | 107 | 1 | No Gas | 106670 | 0.00 |
| Cd | 111 | 1 | No Gas | 20523 | 0.01 |
| Sr | 88 | 1 | No Gas | 200780 | 0.00 |
| Mo | 95 | 1 | No Gas | 38275 | 0.01 |
| Sn | 118 | 1 | No Gas | 71599 | 0.00 |
| Sb | 121 | 1 | No Gas | 92645 | 0.00 |
| Ba | 137 | 1 | No Gas | 35889 | 0.00 |
| Tl | 205 | 1 | No Gas | 241227 | 0.00 |
| Tl | 203 | 1 | No Gas | 101224 | 0.00 |
| Pb | 208 | 1 | No Gas | 335774 | 0.00 |
| U | 238 | 1 | No Gas | 354555 | 0.00 |
| Ca | 43 | 2 | He | 1100 | 0.83 |
| Sb | 121 | 2 | He | 40335 | 0.00 |
| Cu | 63 | 1 | No Gas | 75661 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 898410 | 0.56 | 925047 | 97.12 | 70 | 120 | |
| Ge | 72 | 2 | He | 776517 | 0.58 | 783220 | 99.14 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2740635 | 0.73 | 2767984 | 99.01 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3582607 | 0.35 | 3581092 | 100.04 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3702865 | 0.73 | 3720386 | 99.53 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 10/50/100 |
| Data File Name | 013CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T10:56:58-05:00 |
| Sample Type | CalStd |
| Level | 4 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 32140 | 0.00 |
| V | 51 | 2 | He | 62395 | 0.00 |
| Cr | 52 | 2 | He | 71367 | 0.00 |
| Fe | 56 | 2 | He | 6132018 | 0.00 |
| Se | 78 | 2 | He | 1082 | 0.45 |
| As | 75 | 2 | He | 10723 | 0.02 |
| Ca | 44 | 2 | He | 36334 | 0.01 |
| Na | 23 | 2 | He | 958748 | 0.00 |
| Mg | 24 | 2 | He | 559963 | 0.00 |
| K | 39 | 2 | He | 777099 | 0.00 |
| Mn | 55 | 2 | He | 50811 | 0.01 |
| Co | 59 | 2 | He | 98007 | 0.00 |
| Ni | 60 | 2 | He | 25567 | 0.02 |
| Cu | 63 | 2 | He | 69107 | 0.00 |
| Zn | 66 | 2 | He | 13800 | 0.02 |
| Al | 27 | 2 | He | 4674 | 0.17 |
| B | 11 | 1 | No Gas | 96240 | 0.00 |
| Al | 27 | 1 | No Gas | 185299 | 0.00 |
| Si | 28 | 1 | No Gas | 640435 | 0.00 |
| Ag | 107 | 1 | No Gas | 210518 | 0.00 |
| Cd | 111 | 1 | No Gas | 40826 | 0.00 |
| Sr | 88 | 1 | No Gas | 398185 | 0.00 |
| Mo | 95 | 1 | No Gas | 75722 | 0.00 |
| Sn | 118 | 1 | No Gas | 139405 | 0.00 |
| Sb | 121 | 1 | No Gas | 185633 | 0.00 |
| Ba | 137 | 1 | No Gas | 71008 | 0.00 |
| Tl | 205 | 1 | No Gas | 480697 | 0.00 |
| Tl | 203 | 1 | No Gas | 201815 | 0.00 |
| Pb | 208 | 1 | No Gas | 674750 | 0.00 |
| U | 238 | 1 | No Gas | 709163 | 0.00 |
| Ca | 43 | 2 | He | 2110 | 0.51 |
| Sb | 121 | 2 | He | 82207 | 0.00 |
| Cu | 63 | 1 | No Gas | 149626 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 887536 | 0.64 | 925047 | 95.95 | 70 | 120 | |
| Ge | 72 | 2 | He | 768900 | 0.18 | 783220 | 98.17 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2729774 | 0.54 | 2767984 | 98.62 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3594961 | 0.73 | 3581092 | 100.39 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3714471 | 0.23 | 3720386 | 99.84 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 100/500/10K |
| Data File Name | 014CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T10:59:39-05:00 |
| Sample Type | CalStd |
| Level | 5 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 295776 | 0.00 |
| V | 51 | 2 | He | 521843 | 0.00 |
| Cr | 52 | 2 | He | 588851 | 0.00 |
| Fe | 56 | 2 | He | 56402962 | 0.00 |
| Se | 78 | 2 | He | 8966 | 0.04 |
| As | 75 | 2 | He | 99197 | 0.00 |
| Ca | 44 | 2 | He | 338795 | 0.00 |
| Na | 23 | 2 | He | 8244616 | 0.00 |
| Mg | 24 | 2 | He | 5162818 | 0.00 |
| K | 39 | 2 | He | 6536171 | 0.00 |
| Mn | 55 | 2 | He | 461277 | 0.00 |
| Co | 59 | 2 | He | 903636 | 0.00 |
| Ni | 60 | 2 | He | 234080 | 0.00 |
| Cu | 63 | 2 | He | 624094 | 0.00 |
| Zn | 66 | 2 | He | 122635 | 0.00 |
| Al | 27 | 2 | He | 34950 | 0.01 |
| B | 11 | 1 | No Gas | 811064 | 0.00 |
| Al | 27 | 1 | No Gas | 1416939 | 0.00 |
| Si | 28 | 1 | No Gas | 3738979 | 0.00 |
| Ag | 107 | 1 | No Gas | 1951427 | 0.00 |
| Cd | 111 | 1 | No Gas | 390069 | 0.00 |
| Sr | 88 | 1 | No Gas | 3725471 | 0.00 |
| Mo | 95 | 1 | No Gas | 736415 | 0.00 |
| Sn | 118 | 1 | No Gas | 1289414 | 0.00 |
| Sb | 121 | 1 | No Gas | 1753151 | 0.00 |
| Ba | 137 | 1 | No Gas | 674394 | 0.00 |
| Tl | 205 | 1 | No Gas | 4457224 | 0.00 |
| Tl | 203 | 1 | No Gas | 1894448 | 0.00 |
| Pb | 208 | 1 | No Gas | 6341054 | 0.00 |
| U | 238 | 1 | No Gas | 6963453 | 0.00 |
| Ca | 43 | 2 | He | 19871 | 0.03 |
| Sb | 121 | 2 | He | 765102 | 0.00 |
| Cu | 63 | 1 | No Gas | 1365690 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 816417 | 0.68 | 925047 | 88.26 | 70 | 120 | |
| Ge | 72 | 2 | He | 739983 | 0.58 | 783220 | 94.48 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2624311 | 0.76 | 2767984 | 94.81 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3414111 | 0.10 | 3581092 | 95.34 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3577512 | 0.25 | 3720386 | 96.16 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 200/1000/20K |
| Data File Name | 015CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T11:02:18-05:00 |
| Sample Type | CalStd |
| Level | 6 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 580133 | 0.00 |
| V | 51 | 2 | He | 1077787 | 0.00 |
| Cr | 52 | 2 | He | 1227189 | 0.00 |
| Fe | 56 | 2 | He | 116870612 | 0.00 |
| Se | 78 | 2 | He | 18650 | 0.01 |
| As | 75 | 2 | He | 206029 | 0.00 |
| Ca | 44 | 2 | He | 702420 | 0.00 |
| Na | 23 | 2 | He | 16883068 | 0.00 |
| Mg | 24 | 2 | He | 10649837 | 0.00 |
| K | 39 | 2 | He | 13541563 | 0.00 |
| Mn | 55 | 2 | He | 959868 | 0.00 |
| Co | 59 | 2 | He | 1900058 | 0.00 |
| Ni | 60 | 2 | He | 478170 | 0.00 |
| Cu | 63 | 2 | He | 1294062 | 0.00 |
| Zn | 66 | 2 | He | 247505 | 0.00 |
| Al | 27 | 2 | He | 71196 | 0.00 |
| B | 11 | 1 | No Gas | 1606226 | 0.00 |
| Al | 27 | 1 | No Gas | 2757465 | 0.00 |
| Si | 28 | 1 | No Gas | 7074833 | 0.00 |
| Ag | 107 | 1 | No Gas | 3875702 | 0.00 |
| Cd | 111 | 1 | No Gas | 768182 | 0.00 |
| Sr | 88 | 1 | No Gas | 7444902 | 0.00 |
| Mo | 95 | 1 | No Gas | 1490734 | 0.00 |
| Sn | 118 | 1 | No Gas | 2579379 | 0.00 |
| Sb | 121 | 1 | No Gas | 3562490 | 0.00 |
| Ba | 137 | 1 | No Gas | 1370541 | 0.00 |
| Tl | 205 | 1 | No Gas | 8858542 | 0.00 |
| Tl | 203 | 1 | No Gas | 3786081 | 0.00 |
| Pb | 208 | 1 | No Gas | 12672095 | 0.00 |
| U | 238 | 1 | No Gas | 14071646 | 0.00 |
| Ca | 43 | 2 | He | 41138 | 0.00 |
| Sb | 121 | 2 | He | 1639505 | 0.00 |
| Cu | 63 | 1 | No Gas | 2690477 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 766281 | 0.34 | 925047 | 82.84 | 70 | 120 | |
| Ge | 72 | 2 | He | 723640 | 0.39 | 783220 | 92.39 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2544720 | 0.39 | 2767984 | 91.93 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3309120 | 0.34 | 3581092 | 92.41 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3466717 | 0.45 | 3720386 | 93.18 | 70 | 120 | |

# Initial Calibration Verification (ICV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICV |
| Data File Name | 017_ICV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T11:10:44-05:00 |
| Sample Type | ICV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Exp Value | %Rec | %Low | %High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 104.117 | 2.101 | 1172744 | 2.38 | 100 | 104.1 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 106.066 | 1.874 | 312580 | 2.20 | 100 | 106.1 | 90 | 110 | |
| V | 51 | 2 | He | 105.553 | 1.276 | 588138 | 1.46 | 100 | 105.6 | 90 | 110 | |
| Cr | 52 | 2 | He | 104.661 | 1.231 | 662738 | 1.33 | 100 | 104.7 | 90 | 110 | |
| Fe | 56 | 2 | He | 10287.363 | 1.636 | 61858754 | 2.00 | 10000 | 102.9 | 90 | 110 | |
| Se | 78 | 2 | He | 106.554 | 2.858 | 10261 | 2.46 | 100 | 106.6 | 90 | 110 | |
| As | 75 | 2 | He | 105.762 | 0.866 | 112147 | 0.33 | 100 | 105.8 | 90 | 110 | |
| Ca | 44 | 2 | He | 10310.509 | 1.430 | 372753 | 2.11 | 10000 | 103.1 | 90 | 110 | |
| Na | 23 | 2 | He | 10293.537 | 1.017 | 8985900 | 1.32 | 10000 | 102.9 | 90 | 110 | |
| Mg | 24 | 2 | He | 10307.876 | 1.368 | 5652906 | 1.60 | 10000 | 103.1 | 90 | 110 | |
| K | 39 | 2 | He | 10258.830 | 1.814 | 7178775 | 2.20 | 10000 | 102.6 | 90 | 110 | |
| Mn | 55 | 2 | He | 104.926 | 1.188 | 517975 | 1.66 | 100 | 104.9 | 90 | 110 | |
| Co | 59 | 2 | He | 105.784 | 0.877 | 1031199 | 0.95 | 100 | 105.8 | 90 | 110 | |
| Ni | 60 | 2 | He | 105.465 | 0.201 | 260243 | 0.73 | 100 | 105.5 | 90 | 110 | |
| Cu | 63 | 2 | He | 104.680 | 0.970 | 697054 | 1.62 | 100 | 104.7 | 90 | 110 | |
| Zn | 66 | 2 | He | 104.980 | 1.456 | 134669 | 1.68 | 100 | 105.0 | 90 | 110 | |
| Al | 27 | 2 | He | 106.147 | 2.744 | 39329 | 2.52 | 100 | 106.1 | 90 | 110 | |
| B | 11 | 1 | No Gas | 511.086 | 0.566 | 825780 | 0.86 | 500 | 102.2 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 103.993 | 1.786 | 1506356 | 2.00 | 100 | 104.0 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 510.206 | 1.820 | 3879327 | 1.97 | 500 | 102.0 | 90 | 110 | |
| Ag | 107 | 1 | No Gas | 104.173 | 1.964 | 2084934 | 1.47 | 100 | 104.2 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 103.990 | 3.049 | 413134 | 2.56 | 100 | 104.0 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 104.088 | 3.075 | 3996749 | 2.57 | 100 | 104.1 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 100.967 | 2.174 | 774239 | 1.67 | 100 | 101.0 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 104.054 | 2.111 | 1385155 | 1.62 | 100 | 104.1 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 103.728 | 1.724 | 1909087 | 1.99 | 100 | 103.7 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 101.896 | 2.311 | 718008 | 1.81 | 100 | 101.9 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 105.131 | 2.330 | 4817032 | 2.61 | 100 | 105.1 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 105.179 | 2.411 | 2057405 | 2.64 | 100 | 105.2 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 102.998 | 1.762 | 6743637 | 2.15 | 100 | 103.0 | 90 | 110 | |
| U | 238 | 1 | No Gas | 105.202 | 1.417 | 7630674 | 1.80 | 100 | 105.2 | 90 | 110 | |
| Ca | 43 | 2 | He | 10304.949 | 1.647 | 21827 | 2.25 | 10000 | 103.0 | 90 | 110 | |
| Sb | 121 | 2 | He | 103.492 | 0.916 | 867403 | 1.28 | 100 | 103.5 | 90 | 110 | |
| Ti | 47 | 2 | He | 102.357 | 2.658 | 21524 | 3.34 | 100 | 102.4 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 104.946 | 1.309 | 1468118 | 1.58 | 100 | 104.9 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 105.501 | 2.105 | 25224 | 2.28 | 100 | 105.5 | 90 | 110 | |
| Zr | 90 | 1 | No Gas | 86.862 | 2.542 | 2100135 | 2.04 | 100 | 86.9 | 90 | 110 | ICV Main CR1 Failed |
| Zr | 90 | 2 | He | 87.535 | 0.607 | 853861 | 1.16 | 100 | 87.5 | 90 | 1100 | ICV Main CR1 Failed |

**QC ISTD Table**

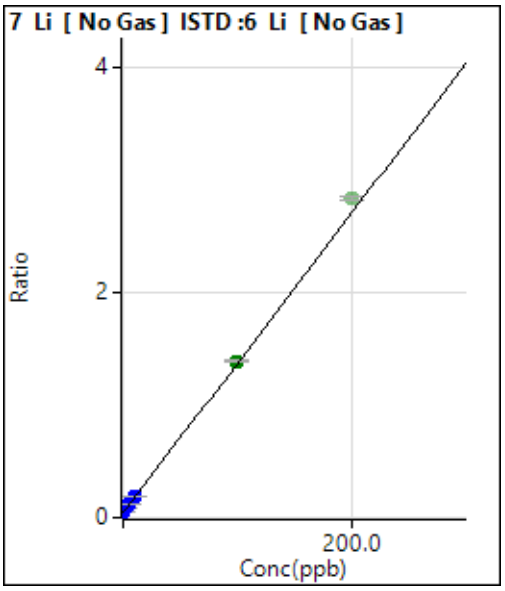
| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 813542 | 0.45 | 925047 | 87.95 | 70 | 120 | |
| Ge | 72 | 2 | He | 752999 | 0.68 | 783220 | 96.14 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2653269 | 0.27 | 2767984 | 95.86 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3433728 | 0.50 | 3581092 | 95.88 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3603462 | 0.40 | 3720386 | 96.86 | 70 | 120 | |

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062824A.b\
Analysis File: 062824A.batch.bin
DA Date-Time: 6/28/2024 10:08:19 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 010CALB.d | CAL BLK | 6/28/2024 10:48:54 AM |
| 2 | 011CALS.d | 2/10/200 | 6/28/2024 10:51:37 AM |
| 3 | 012CALS.d | 5/25/500 | 6/28/2024 10:54:18 AM |
| 4 | 013CALS.d | 10/50/100 | 6/28/2024 10:56:58 AM |
| 5 | 014CALS.d | 100/500/10K | 6/28/2024 10:59:39 AM |
| 6 | 015CALS.d | 200/1000/20K | 6/28/2024 11:02:18 AM |

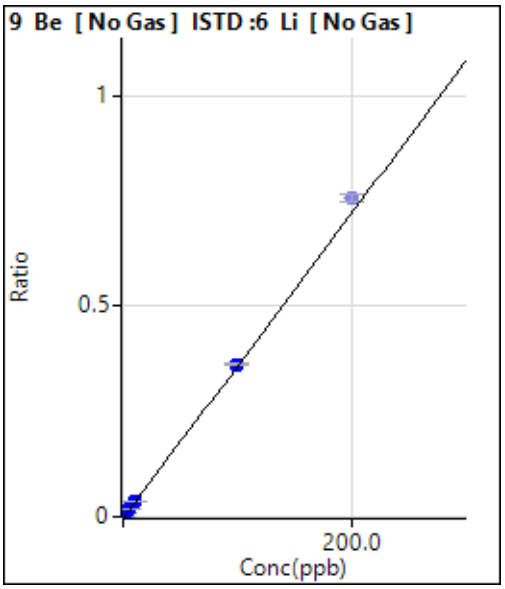
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 53693.95 | 0.0580 | P | 0.8 | |
| 2 | ☐ | 2.000 | 1.985 | 76827.04 | 0.0844 | P | 0.8 | -0.8 |
| 3 | ☐ | 5.000 | 4.966 | 111419.71 | 0.1240 | P | 2.0 | -0.7 |
| 4 | ☐ | 10.000 | 9.951 | 168866.07 | 0.1903 | P | 1.1 | -0.5 |
| 5 | ☐ | 100.000 | 100.007 | 1132266.78 | 1.3869 | A | 1.7 | 0.0 |
| 6 | ☑ | 200.000 | | 2170636.01 | 2.8328 | A | 1.4 | |

y = 0.0133 * x + 0.0580
R = 1.0000
DL = 0.09885 ppb
BEC = 4.368 ppb

Weight: <None>
Min Conc: <None>

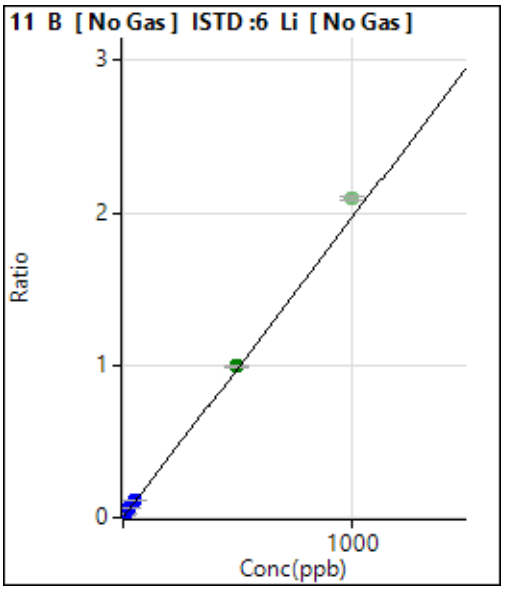



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 93.33 | 0.0001 | P | 21.9 | |
| 2 | ☐ | 2.000 | 1.940 | 6486.52 | 0.0071 | P | 3.3 | -3.0 |
| 3 | ☐ | 5.000 | 4.865 | 15915.62 | 0.0177 | P | 5.9 | -2.7 |
| 4 | ☐ | 10.000 | 9.972 | 32139.60 | 0.0362 | P | 1.2 | -0.3 |
| 5 | ☐ | 100.000 | 100.011 | 295776.38 | 0.3623 | P | 1.9 | 0.0 |
| 6 | ☑ | 200.000 | | 580133.38 | 0.7571 | P | 2.2 | |

y = 0.0036 * x + 1.0094E-004
R = 1.0000
DL = 0.01834 ppb
BEC = 0.02787 ppb

Weight: <None>
Min Conc: <None>

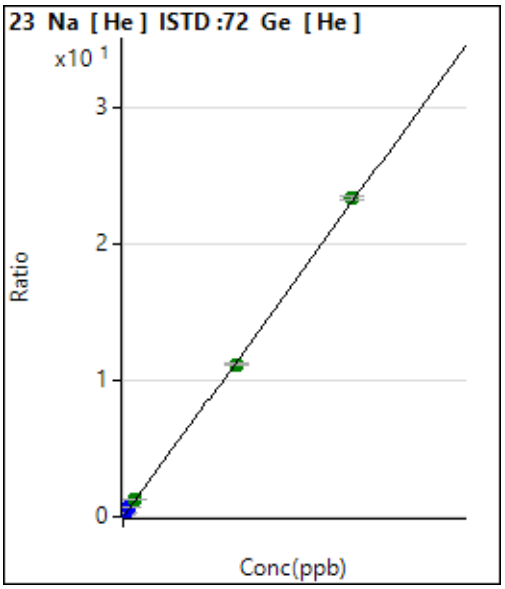
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 10485.62 | 0.0113 | P | 1.5 | |
| 2 | ☐ | 10.000 | 9.335 | 27000.62 | 0.0297 | P | 1.8 | -6.6 |
| 3 | ☐ | 25.000 | 24.615 | 53607.41 | 0.0597 | P | 3.3 | -1.5 |
| 4 | ☐ | 50.000 | 49.444 | 96239.64 | 0.1084 | P | 1.1 | -1.1 |
| 5 | ☐ | 500.000 | 500.088 | 811064.34 | 0.9934 | A | 1.8 | 0.0 |
| 6 | ☑ | 1000.000 | | 1606226.28 | 2.0962 | A | 1.4 | |

y = 0.0020 * x + 0.0113
R = 1.0000
DL = 0.2563 ppb
BEC = 5.772 ppb

Weight: <None>
Min Conc: <None>

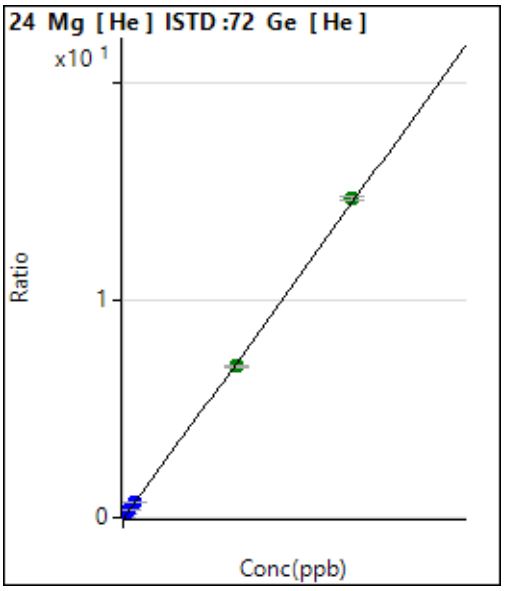



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 68033.74 | 0.0869 | P | 1.0 | |
| 2 | ☐ | 200.000 | 194.421 | 241881.29 | 0.3106 | P | 2.2 | -2.8 |
| 3 | ☐ | 500.000 | 497.467 | 512046.74 | 0.6594 | P | 1.1 | -0.5 |
| 4 | ☐ | 1000.000 | 1007.977 | 958747.62 | 1.2469 | A | 2.0 | 0.8 |
| 5 | ☐ | 10000.00 | 9605.169 | 8244615.92 | 11.1412 | A | 1.2 | -3.9 |
| 6 | ☐ | 20000.00 | 20197.13 | 16883068.50 | 23.3311 | A | 1.5 | 1.0 |

y = 0.0012 * x + 0.0869
R = 0.9997
DL = 2.27 ppb
BEC = 75.48 ppb

Weight: <None>
Min Conc: <None>

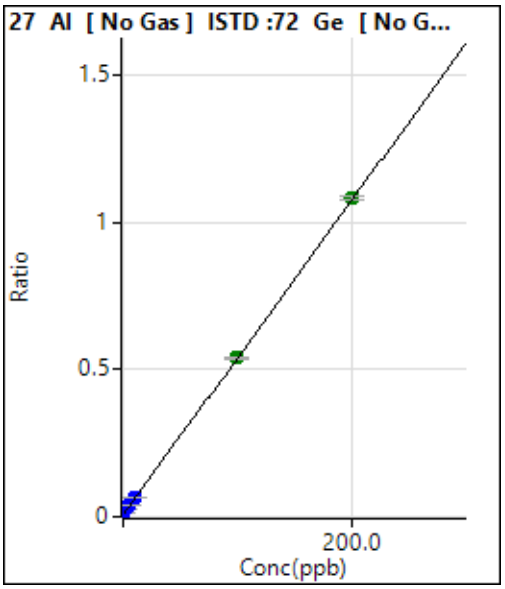
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1630.12 | 0.0021 | P | 7.2 | |
| 2 | ☐ | 200.000 | 190.440 | 109586.99 | 0.1407 | P | 4.6 | -4.8 |
| 3 | ☐ | 500.000 | 491.846 | 279702.50 | 0.3602 | P | 1.3 | -1.6 |
| 4 | ☐ | 1000.000 | 997.385 | 559962.84 | 0.7283 | P | 1.8 | -0.3 |
| 5 | ☐ | 10000.00 | 9579.136 | 5162817.63 | 6.9765 | A | 1.5 | -4.2 |
| 6 | ☐ | 20000.00 | 20210.86 | 10649836.92 | 14.7174 | A | 1.7 | 1.1 |

y = 7.2809E-004 * x + 0.0021
R = 0.9997
DL = 0.6191 ppb
BEC = 2.858 ppb

Weight: <None>
Min Conc: <None>

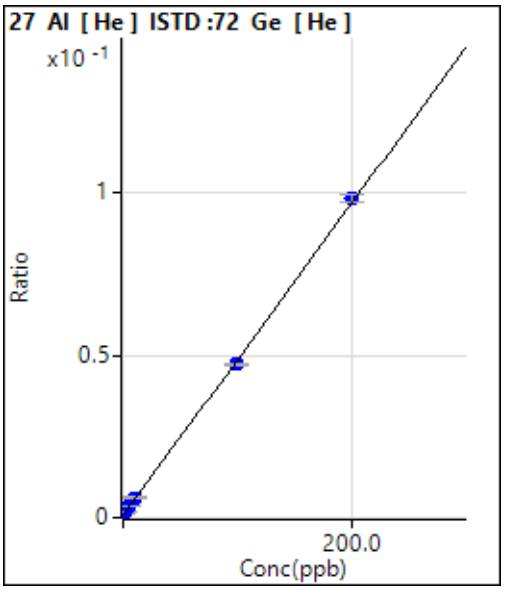



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 34101.58 | 0.0123 | P | 2.5 | |
| 2 | ☐ | 2.000 | 2.117 | 65264.21 | 0.0236 | P | 1.6 | 5.9 |
| 3 | ☐ | 5.000 | 4.999 | 106947.31 | 0.0390 | P | 1.5 | 0.0 |
| 4 | ☐ | 10.000 | 10.403 | 185299.17 | 0.0679 | P | 1.3 | 4.0 |
| 5 | ☐ | 100.000 | 98.785 | 1416939.09 | 0.5399 | A | 1.6 | -1.2 |
| 6 | ☐ | 200.000 | 200.586 | 2757465.17 | 1.0836 | A | 1.4 | 0.3 |

y = 0.0053 * x + 0.0123
R = 1.0000
DL = 0.1758 ppb
BEC = 2.307 ppb

Weight: <None>
Min Conc: <None>

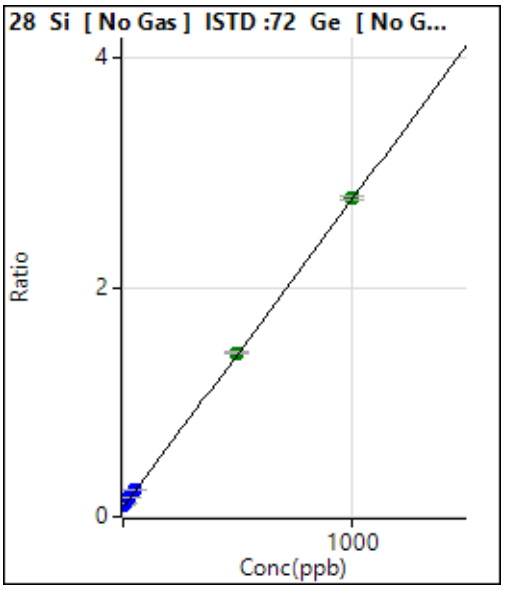
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 930.05 | 0.0012 | P | 8.3 | |
| 2 | ☐ | 2.000 | 1.636 | 1536.78 | 0.0020 | P | 4.7 | -18.2 |
| 3 | ☐ | 5.000 | 4.780 | 2706.97 | 0.0035 | P | 1.5 | -4.4 |
| 4 | ☐ | 10.000 | 10.172 | 4674.20 | 0.0061 | P | 7.8 | 1.7 |
| 5 | ☐ | 100.000 | 95.743 | 34950.40 | 0.0472 | P | 1.5 | -4.3 |
| 6 | ☐ | 200.000 | 202.129 | 71196.14 | 0.0984 | P | 2.2 | 1.1 |

y = 4.8088E-004 * x + 0.0012
R = 0.9997
DL = 0.6129 ppb
BEC = 2.469 ppb

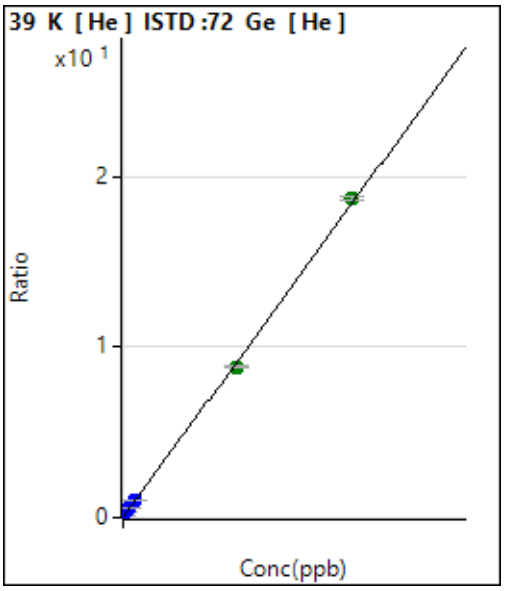
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 259377.48 | 0.0937 | P | 3.4 | |
| 2 | ☐ | 10.000 | 10.538 | 336928.11 | 0.1220 | P | 1.4 | 5.4 |
| 3 | ☐ | 25.000 | 26.114 | 448739.76 | 0.1637 | P | 1.7 | 4.5 |
| 4 | ☐ | 50.000 | 52.538 | 640435.47 | 0.2346 | P | 0.5 | 5.1 |
| 5 | ☐ | 500.000 | 496.287 | 3738979.43 | 1.4247 | A | 1.2 | -0.7 |
| 6 | ☐ | 1000.000 | 1001.696 | 7074832.81 | 2.7802 | A | 0.9 | 0.2 |

y = 0.0027 * x + 0.0937
R = 1.0000
DL = 3.552 ppb
BEC = 34.94 ppb

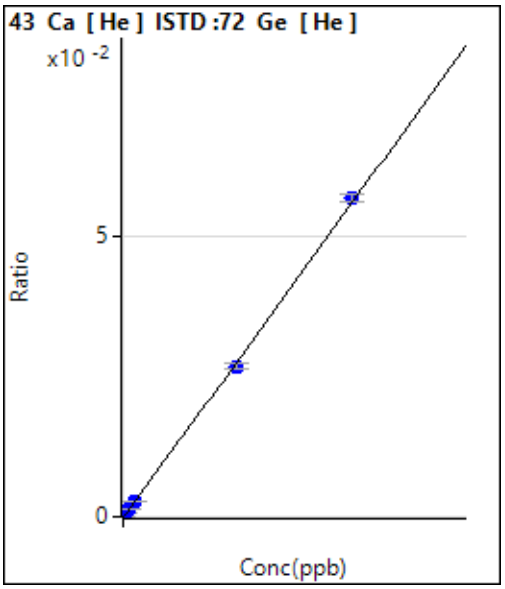
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 86238.61 | 0.1101 | P | 1.9 | |
| 2 | ☐ | 200.000 | 190.632 | 222088.86 | 0.2852 | P | 1.8 | -4.7 |
| 3 | ☐ | 500.000 | 484.177 | 430864.03 | 0.5548 | P | 1.6 | -3.2 |
| 4 | ☐ | 1000.000 | 980.426 | 777098.58 | 1.0107 | P | 2.0 | -2.0 |
| 5 | ☐ | 10000.00 | 9496.081 | 6536171.36 | 8.8326 | A | 0.8 | -5.0 |
| 6 | ☐ | 20000.00 | 20253.42 | 13541562.71 | 18.7136 | A | 1.8 | 1.3 |

y = 9.1854E-004 * x + 0.1101
R = 0.9996
DL = 6.861 ppb
BEC = 119.9 ppb

Weight: <None>
Min Conc: <None>

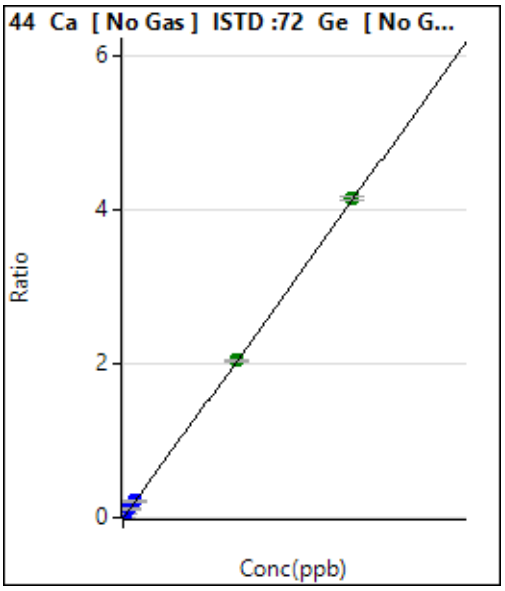



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 43.33 | 0.0001 | P | 58.6 | |
| 2 | ☐ | 200.000 | 198.303 | 476.68 | 0.0006 | P | 13.7 | -0.8 |
| 3 | ☐ | 500.000 | 484.738 | 1100.06 | 0.0014 | P | 8.6 | -3.1 |
| 4 | ☐ | 1000.000 | 957.754 | 2110.20 | 0.0027 | P | 10.7 | -4.2 |
| 5 | ☐ | 10000.00 | 9543.795 | 19871.21 | 0.0268 | P | 4.8 | -4.6 |
| 6 | ☐ | 20000.00 | 20230.61 | 41137.64 | 0.0569 | P | 2.1 | 1.2 |

y = 2.8074E-006 * x + 5.5433E-005
R = 0.9996
DL = 34.71 ppb
BEC = 19.75 ppb

Weight: <None>
Min Conc: <None>

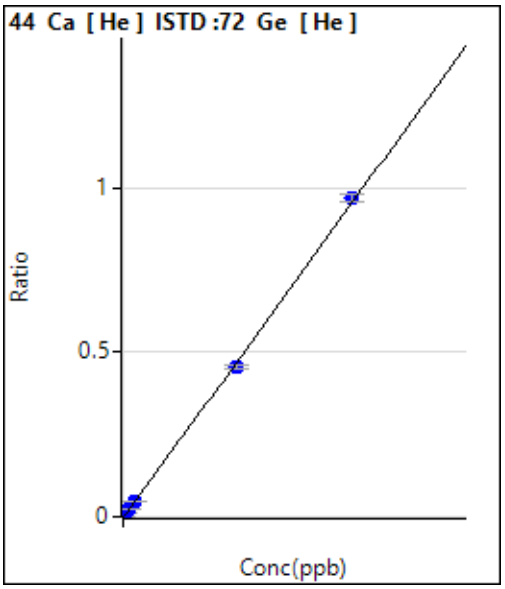
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 28997.33 | 0.0105 | P | 2.7 | |
| 2 | ☐ | 200.000 | 196.142 | 140482.65 | 0.0509 | P | 2.7 | -1.9 |
| 3 | ☐ | 500.000 | 495.867 | 308521.45 | 0.1126 | P | 0.8 | -0.8 |
| 4 | ☐ | 1000.000 | 988.159 | 583938.00 | 0.2139 | P | 2.4 | -1.2 |
| 5 | ☐ | 10000.00 | 9843.692 | 5346373.77 | 2.0372 | A | 1.7 | -1.6 |
| 6 | ☐ | 20000.00 | 20078.88 | 10546593.38 | 4.1445 | A | 1.0 | 0.4 |

y = 2.0589E-004 * x + 0.0105
R = 1.0000
DL = 4.144 ppb
BEC = 50.88 ppb

Weight: <None>
Min Conc: <None>

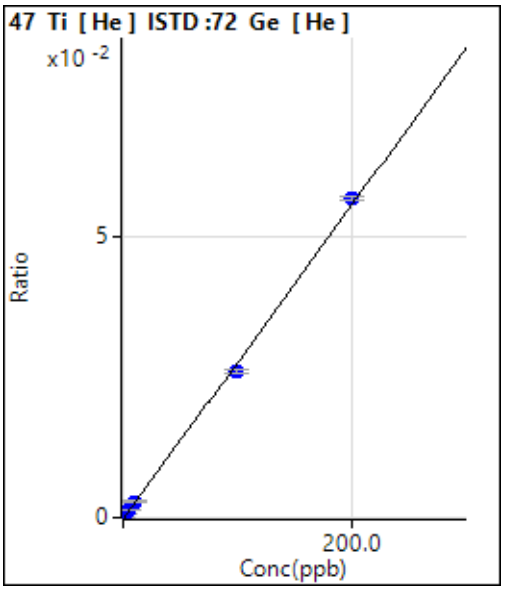



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 606.69 | 0.0008 | P | 3.6 | |
| 2 | ☐ | 200.000 | 197.813 | 7985.77 | 0.0103 | P | 7.2 | -1.1 |
| 3 | ☐ | 500.000 | 480.803 | 18499.27 | 0.0238 | P | 2.9 | -3.8 |
| 4 | ☐ | 1000.000 | 969.695 | 36334.41 | 0.0473 | P | 2.6 | -3.0 |
| 5 | ☐ | 10000.00 | 9534.462 | 338794.68 | 0.4578 | P | 2.8 | -4.7 |
| 6 | ☐ | 20000.00 | 20234.78 | 702419.83 | 0.9707 | P | 1.9 | 1.2 |

y = 4.7934E-005 * x + 7.7452E-004
R = 0.9996
DL = 1.757 ppb
BEC = 16.16 ppb

Weight: <None>
Min Conc: <None>

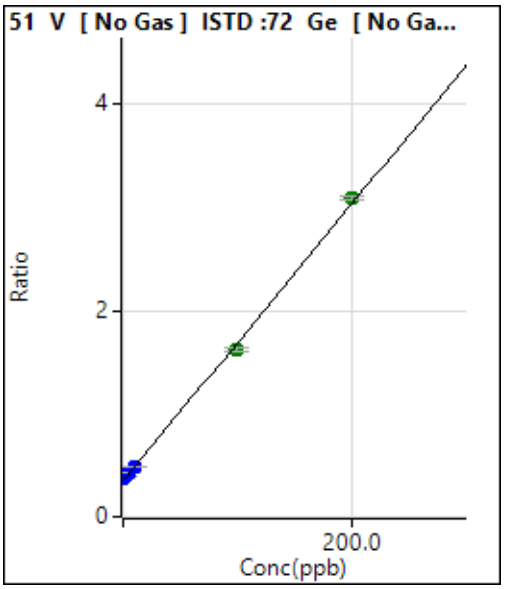
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 10.00 | 0.0000 | P | 173.2 | |
| 2 | ☐ | 2.000 | 2.454 | 543.36 | 0.0007 | P | 8.7 | 22.7 |
| 3 | ☐ | 5.000 | 4.629 | 1013.39 | 0.0013 | P | 7.7 | -7.4 |
| 4 | ☐ | 10.000 | 9.989 | 2153.54 | 0.0028 | P | 9.8 | -0.1 |
| 5 | ☐ | 100.000 | 93.218 | 19263.64 | 0.0260 | P | 3.7 | -6.8 |
| 6 | ☐ | 200.000 | 203.396 | 41087.74 | 0.0568 | P | 1.1 | 1.7 |

y = 2.7910E-004 * x + 1.2735E-005
R = 0.9992
DL = 0.2371 ppb
BEC = 0.04563 ppb

Weight: <None>
Min Conc: <None>

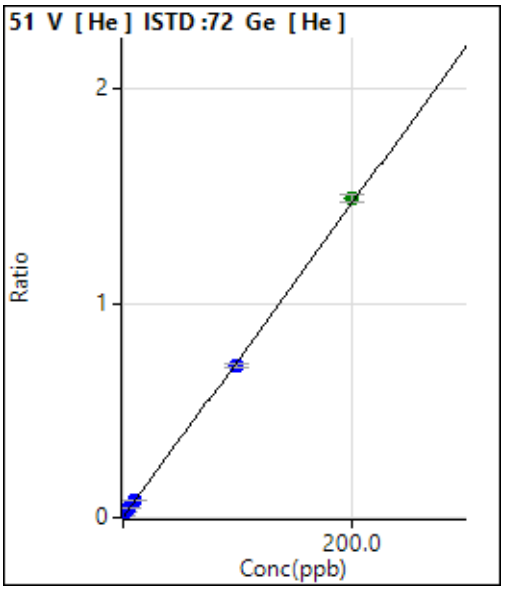



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1010954.48 | 0.3652 | P | 0.5 | |
| 2 | ☐ | 2.000 | 1.938 | 1080650.24 | 0.3912 | P | 1.3 | -3.1 |
| 3 | ☐ | 5.000 | 4.355 | 1161135.25 | 0.4236 | P | 1.4 | -12.9 |
| 4 | ☐ | 10.000 | 8.883 | 1322173.21 | 0.4844 | P | 1.4 | -11.2 |
| 5 | ☐ | 100.000 | 93.506 | 4249706.16 | 1.6193 | A | 1.3 | -6.5 |
| 6 | ☐ | 200.000 | 203.320 | 7868543.93 | 3.0921 | A | 0.8 | 1.7 |

y = 0.0134 * x + 0.3652
R = 0.9993
DL = 0.4177 ppb
BEC = 27.23 ppb

Weight: <None>
Min Conc: <None>

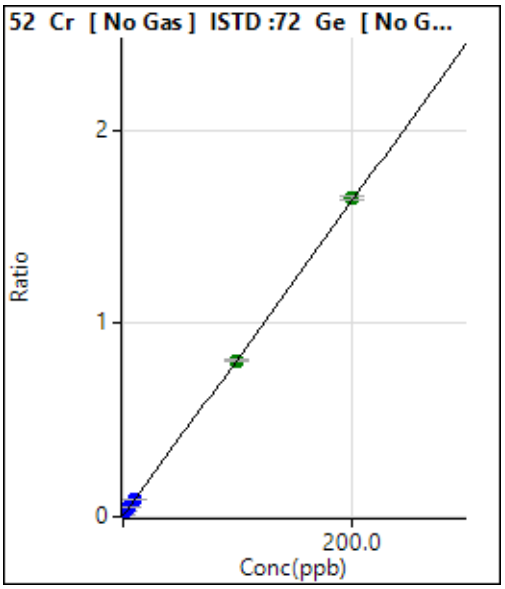
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7209.69 | 0.0092 | P | 2.4 | |
| 2 | ☐ | 2.000 | 1.919 | 18096.30 | 0.0232 | P | 2.3 | -4.0 |
| 3 | ☐ | 5.000 | 4.763 | 34195.37 | 0.0440 | P | 1.8 | -4.7 |
| 4 | ☐ | 10.000 | 9.839 | 62395.05 | 0.0811 | P | 2.8 | -1.6 |
| 5 | ☐ | 100.000 | 95.172 | 521843.03 | 0.7052 | P | 2.4 | -4.8 |
| 6 | ☐ | 200.000 | 202.429 | 1077786.55 | 1.4895 | A | 2.4 | 1.2 |

y = 0.0073 * x + 0.0092
R = 0.9996
DL = 0.08909 ppb
BEC = 1.259 ppb

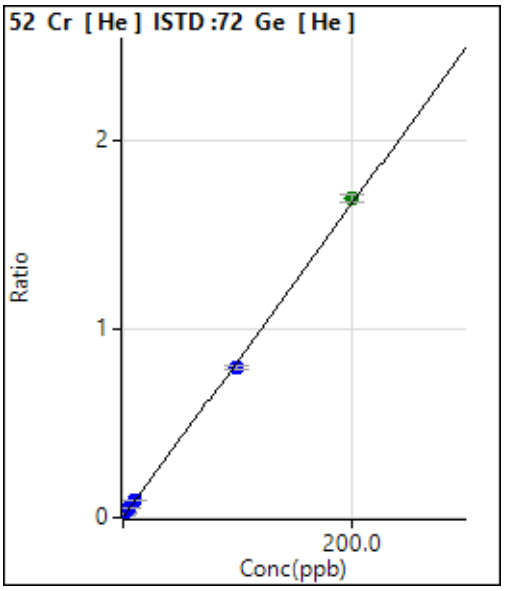
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 34286.10 | 0.0124 | P | 1.8 | |
| 2 | ☐ | 2.000 | 1.958 | 78226.70 | 0.0283 | P | 2.6 | -2.1 |
| 3 | ☐ | 5.000 | 5.009 | 145663.94 | 0.0531 | P | 3.9 | 0.2 |
| 4 | ☐ | 10.000 | 9.909 | 253873.25 | 0.0930 | P | 1.7 | -0.9 |
| 5 | ☐ | 100.000 | 97.835 | 2121565.39 | 0.8084 | A | 0.9 | -2.2 |
| 6 | ☐ | 200.000 | 201.087 | 4195007.34 | 1.6485 | A | 0.6 | 0.5 |

y = 0.0081 * x + 0.0124
R = 0.9999
DL = 0.08146 ppb
BEC = 1.522 ppb

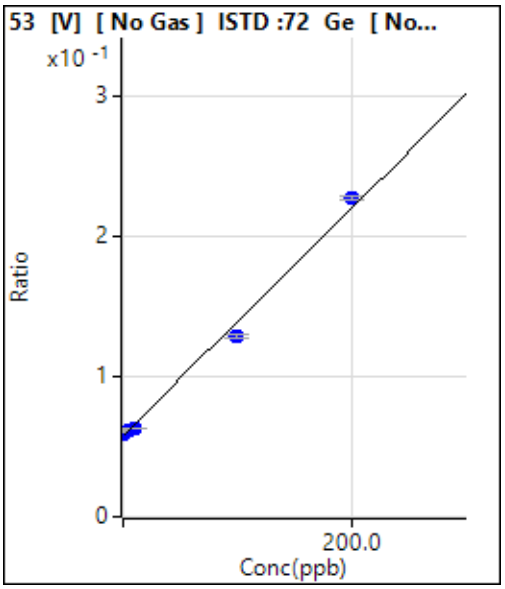
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7608.88 | 0.0097 | P | 5.4 | |
| 2 | ☐ | 2.000 | 1.911 | 19941.23 | 0.0256 | P | 1.7 | -4.5 |
| 3 | ☐ | 5.000 | 4.811 | 38614.11 | 0.0497 | P | 1.2 | -3.8 |
| 4 | ☐ | 10.000 | 9.993 | 71366.91 | 0.0928 | P | 1.5 | -0.1 |
| 5 | ☐ | 100.000 | 94.508 | 588850.85 | 0.7957 | P | 2.1 | -5.5 |
| 6 | ☐ | 200.000 | 202.752 | 1227189.22 | 1.6959 | A | 2.3 | 1.4 |

y = 0.0083 * x + 0.0097
R = 0.9995
DL = 0.1888 ppb
BEC = 1.168 ppb

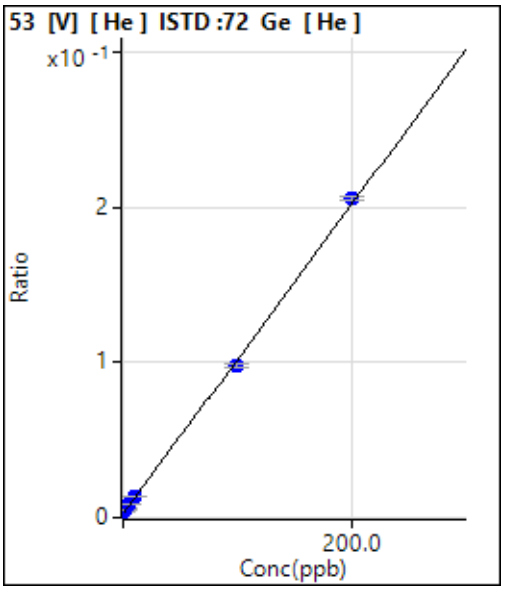
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 164036.67 | 0.0593 | P | 0.7 | |
| 2 | ☐ | 2.000 | 1.732 | 167571.12 | 0.0607 | P | 1.2 | -13.4 |
| 3 | ☐ | 5.000 | 2.193 | 167297.96 | 0.0610 | P | 1.2 | -56.1 |
| 4 | ☐ | 10.000 | 5.018 | 172871.46 | 0.0633 | P | 1.1 | -49.8 |
| 5 | ☐ | 100.000 | 85.756 | 337990.58 | 0.1288 | P | 1.4 | -14.2 |
| 6 | ☐ | 200.000 | 207.444 | 578785.28 | 0.2274 | P | 1.3 | 3.7 |

y = 8.1073E-004 * x + 0.0593
R = 0.9966
DL = 1.644 ppb
BEC = 73.1 ppb

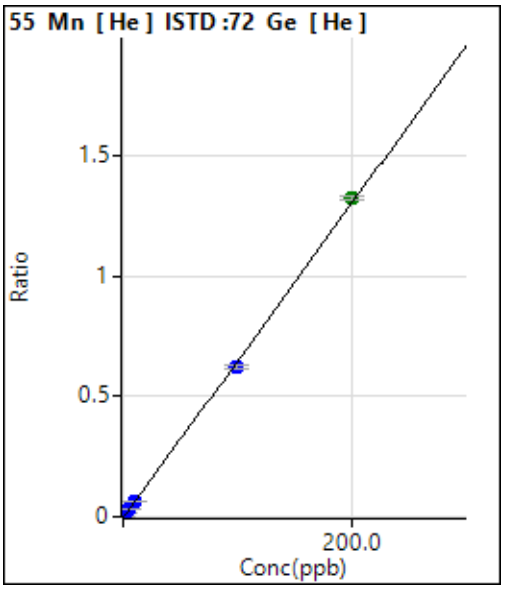
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2793.66 | 0.0036 | P | 5.9 | |
| 2 | ☐ | 2.000 | 1.858 | 4217.40 | 0.0054 | P | 6.4 | -7.1 |
| 3 | ☐ | 5.000 | 4.727 | 6424.93 | 0.0083 | P | 4.7 | -5.5 |
| 4 | ☐ | 10.000 | 9.708 | 10177.27 | 0.0132 | P | 2.1 | -2.9 |
| 5 | ☐ | 100.000 | 94.230 | 72100.88 | 0.0974 | P | 2.8 | -5.8 |
| 6 | ☐ | 200.000 | 202.908 | 148836.68 | 0.2057 | P | 1.5 | 1.5 |

y = 9.9607E-004 * x + 0.0036
R = 0.9994
DL = 0.6353 ppb
BEC = 3.58 ppb

Weight: <None>
Min Conc: <None>

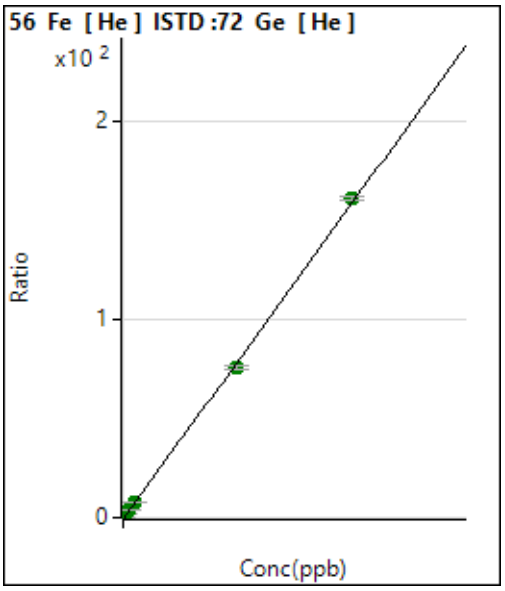



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 776.70 | 0.0010 | P | 11.6 | |
| 2 | ☐ | 2.000 | 1.878 | 10347.38 | 0.0133 | P | 5.0 | -6.1 |
| 3 | ☐ | 5.000 | 4.784 | 25089.77 | 0.0323 | P | 3.8 | -4.3 |
| 4 | ☐ | 10.000 | 9.943 | 50810.52 | 0.0661 | P | 3.3 | -0.6 |
| 5 | ☐ | 100.000 | 95.066 | 461277.27 | 0.6233 | P | 1.9 | -4.9 |
| 6 | ☐ | 200.000 | 202.476 | 959867.75 | 1.3264 | A | 1.3 | 1.2 |

y = 0.0065 * x + 9.9207E-004
R = 0.9996
DL = 0.05289 ppb
BEC = 0.1515 ppb

Weight: <None>
Min Conc: <None>

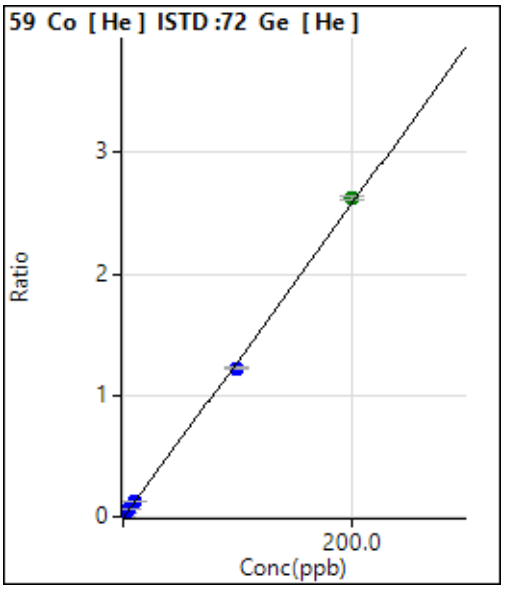
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 19894.62 | 0.0254 | P | 1.6 | |
| 2 | ☐ | 200.000 | 189.312 | 1196572.38 | 1.5366 | A | 2.4 | -5.3 |
| 3 | ☐ | 500.000 | 485.044 | 3026576.73 | 3.8974 | A | 1.8 | -3.0 |
| 4 | ☐ | 1000.000 | 995.855 | 6132018.24 | 7.9751 | A | 2.3 | -0.4 |
| 5 | ☐ | 10000.00 | 9544.277 | 56402962.49 | 76.2156 | A | 2.2 | -4.6 |
| 6 | ☐ | 20000.00 | 20228.54 | 116870611.5 | 161.506 | A | 1.5 | 1.1 |

y = 0.0080 * x + 0.0254
R = 0.9996
DL = 0.1481 ppb
BEC = 3.182 ppb

Weight: <None>
Min Conc: <None>

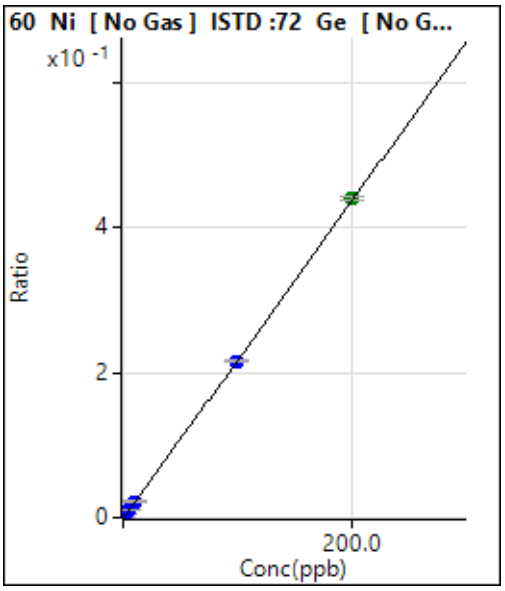



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 320.01 | 0.0004 | P | 8.8 | |
| 2 | ☐ | 2.000 | 1.884 | 19307.12 | 0.0248 | P | 2.7 | -5.8 |
| 3 | ☐ | 5.000 | 4.849 | 49050.62 | 0.0632 | P | 0.8 | -3.0 |
| 4 | ☐ | 10.000 | 9.818 | 98006.73 | 0.1275 | P | 3.4 | -1.8 |
| 5 | ☐ | 100.000 | 94.319 | 903636.13 | 1.2211 | P | 1.6 | -5.7 |
| 6 | ☐ | 200.000 | 202.855 | 1900057.73 | 2.6258 | A | 1.4 | 1.4 |

y = 0.0129 * x + 4.0872E-004
R = 0.9994
DL = 0.008384 ppb
BEC = 0.03158 ppb

Weight: <None>
Min Conc: <None>

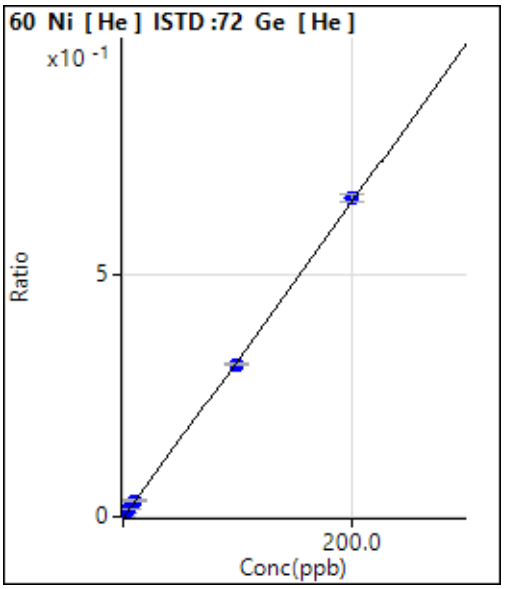
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 866.71 | 0.0003 | P | 9.3 | |
| 2 | ☐ | 2.000 | 2.008 | 13033.04 | 0.0047 | P | 1.3 | 0.4 |
| 3 | ☐ | 5.000 | 5.064 | 31312.63 | 0.0114 | P | 3.4 | 1.3 |
| 4 | ☐ | 10.000 | 10.130 | 61523.56 | 0.0225 | P | 1.3 | 1.3 |
| 5 | ☐ | 100.000 | 98.261 | 566638.22 | 0.2159 | P | 1.6 | -1.7 |
| 6 | ☐ | 200.000 | 200.861 | 1122317.56 | 0.4410 | A | 0.9 | 0.4 |

y = 0.0022 * x + 3.1313E-004
R = 0.9999
DL = 0.03995 ppb
BEC = 0.1427 ppb

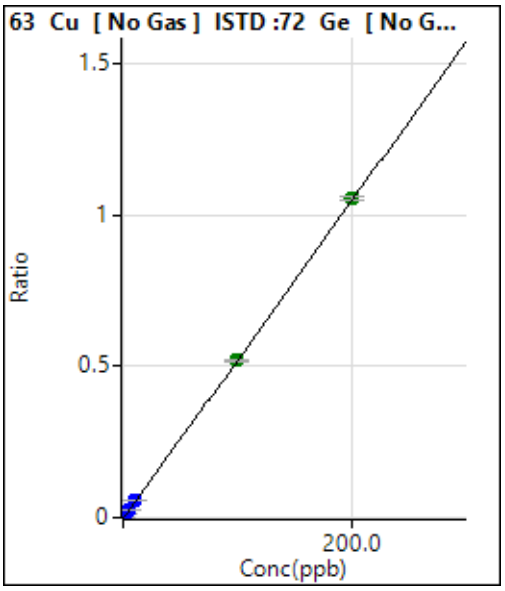
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 263.34 | 0.0003 | P | 12.9 | |
| 2 | ☐ | 2.000 | 1.952 | 5237.76 | 0.0067 | P | 2.7 | -2.4 |
| 3 | ☐ | 5.000 | 4.915 | 12756.10 | 0.0164 | P | 0.8 | -1.7 |
| 4 | ☐ | 10.000 | 10.055 | 25567.34 | 0.0333 | P | 5.7 | 0.5 |
| 5 | ☐ | 100.000 | 96.516 | 234079.81 | 0.3163 | P | 1.9 | -3.5 |
| 6 | ☐ | 200.000 | 201.742 | 478169.86 | 0.6608 | P | 2.4 | 0.9 |

y = 0.0033 * x + 3.3611E-004
R = 0.9998
DL = 0.03985 ppb
BEC = 0.1027 ppb

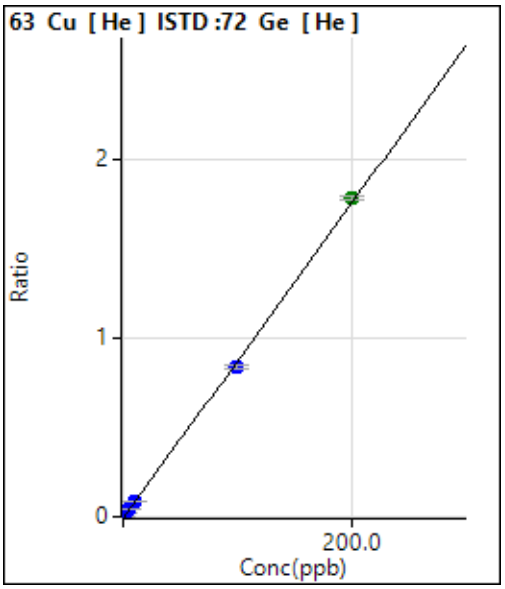
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1626.79 | 0.0006 | P | 4.9 | |
| 2 | ☐ | 2.000 | 2.049 | 31429.43 | 0.0114 | P | 2.2 | 2.4 |
| 3 | ☐ | 5.000 | 5.130 | 75661.23 | 0.0276 | P | 2.4 | 2.6 |
| 4 | ☐ | 10.000 | 10.296 | 149626.46 | 0.0548 | P | 1.1 | 3.0 |
| 5 | ☐ | 100.000 | 98.696 | 1365690.09 | 0.5204 | A | 1.1 | -1.3 |
| 6 | ☐ | 200.000 | 200.634 | 2690477.04 | 1.0573 | A | 1.3 | 0.3 |

y = 0.0053 * x + 5.8772E-004
R = 1.0000
DL = 0.01655 ppb
BEC = 0.1116 ppb

Weight: <None>
Min Conc: <None>

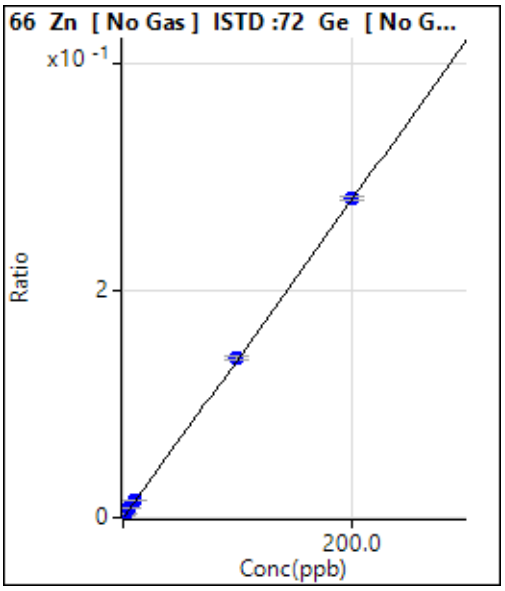



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 600.02 | 0.0008 | P | 9.9 | |
| 2 | ☐ | 2.000 | 1.975 | 14180.86 | 0.0182 | P | 4.3 | -1.3 |
| 3 | ☐ | 5.000 | 4.975 | 34727.63 | 0.0447 | P | 1.8 | -0.5 |
| 4 | ☐ | 10.000 | 10.086 | 69106.74 | 0.0899 | P | 1.3 | 0.9 |
| 5 | ☐ | 100.000 | 95.361 | 624093.85 | 0.8433 | P | 2.0 | -4.6 |
| 6 | ☐ | 200.000 | 202.316 | 1294061.54 | 1.7883 | A | 1.6 | 1.2 |

y = 0.0088 * x + 7.6598E-004
R = 0.9996
DL = 0.02568 ppb
BEC = 0.08669 ppb

Weight: <None>
Min Conc: <None>

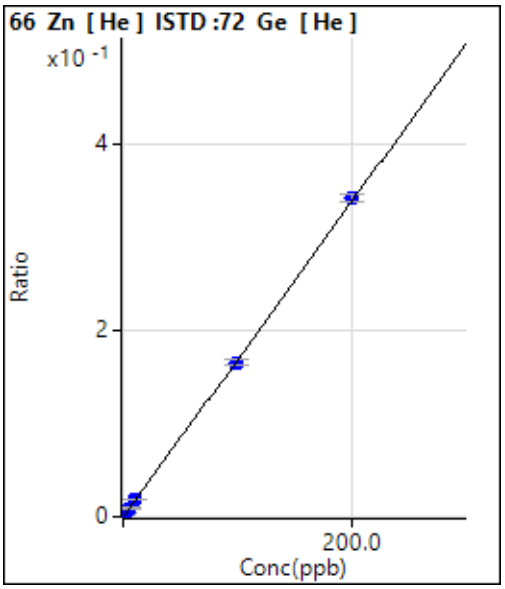
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2456.93 | 0.0009 | P | 5.3 | |
| 2 | ☐ | 2.000 | 2.026 | 10294.06 | 0.0037 | P | 4.1 | 1.3 |
| 3 | ☐ | 5.000 | 5.306 | 22809.26 | 0.0083 | P | 2.9 | 6.1 |
| 4 | ☐ | 10.000 | 10.338 | 41957.74 | 0.0154 | P | 2.6 | 3.4 |
| 5 | ☐ | 100.000 | 99.672 | 368847.17 | 0.1405 | P | 1.8 | -0.3 |
| 6 | ☐ | 200.000 | 200.139 | 715848.79 | 0.2813 | P | 1.0 | 0.1 |

y = 0.0014 * x + 8.8770E-004
R = 1.0000
DL = 0.1011 ppb
BEC = 0.6336 ppb

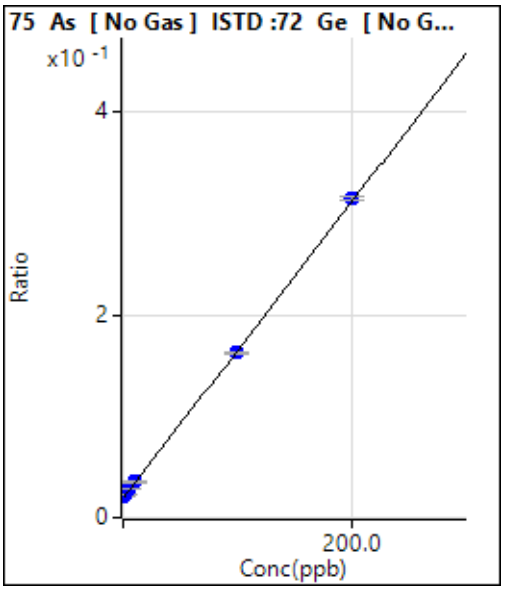
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 906.71 | 0.0012 | P | 7.6 | |
| 2 | ☐ | 2.000 | 2.012 | 3553.88 | 0.0046 | P | 3.1 | 0.6 |
| 3 | ☐ | 5.000 | 4.753 | 7145.32 | 0.0092 | P | 1.6 | -4.9 |
| 4 | ☐ | 10.000 | 9.920 | 13800.40 | 0.0179 | P | 2.4 | -0.8 |
| 5 | ☐ | 100.000 | 97.220 | 122634.62 | 0.1657 | P | 3.2 | -2.8 |
| 6 | ☐ | 200.000 | 201.400 | 247505.45 | 0.3420 | P | 2.0 | 0.7 |

y = 0.0017 * x + 0.0012
R = 0.9999
DL = 0.1563 ppb
BEC = 0.684 ppb

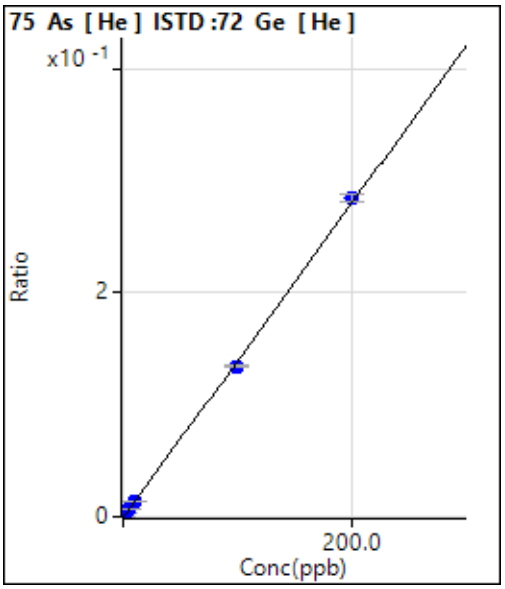
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 57340.72 | 0.0207 | P | 0.5 | |
| 2 | ☐ | 2.000 | 2.035 | 65440.12 | 0.0237 | P | 0.3 | 1.7 |
| 3 | ☐ | 5.000 | 5.200 | 77617.38 | 0.0283 | P | 1.1 | 4.0 |
| 4 | ☐ | 10.000 | 10.000 | 96456.09 | 0.0353 | P | 2.5 | 0.0 |
| 5 | ☐ | 100.000 | 97.055 | 426818.08 | 0.1626 | P | 1.6 | -2.9 |
| 6 | ☐ | 200.000 | 201.467 | 802394.62 | 0.3153 | P | 1.6 | 0.7 |

y = 0.0015 * x + 0.0207
R = 0.9998
DL = 0.2331 ppb
BEC = 14.17 ppb

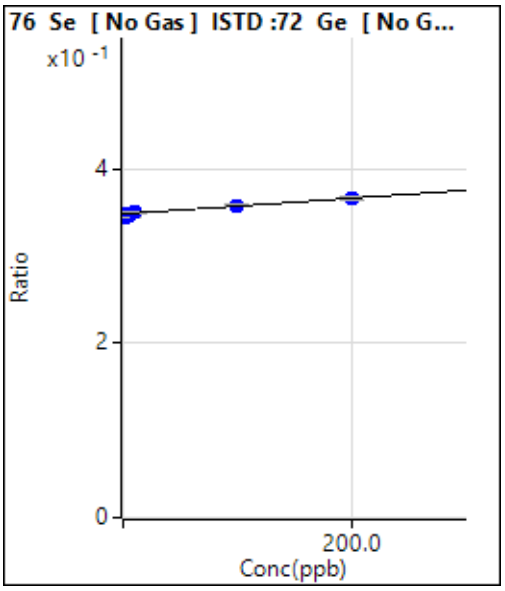
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 316.67 | 0.0004 | P | 7.2 | |
| 2 | ☐ | 2.000 | 1.966 | 2464.68 | 0.0032 | P | 3.0 | -1.7 |
| 3 | ☐ | 5.000 | 4.843 | 5595.62 | 0.0072 | P | 2.4 | -3.1 |
| 4 | ☐ | 10.000 | 9.642 | 10723.13 | 0.0139 | P | 2.2 | -3.6 |
| 5 | ☐ | 100.000 | 95.160 | 99197.46 | 0.1341 | P | 1.0 | -4.8 |
| 6 | ☐ | 200.000 | 202.442 | 206029.47 | 0.2847 | P | 2.4 | 1.2 |

y = 0.0014 * x + 4.0426E-004
R = 0.9996
DL = 0.06258 ppb
BEC = 0.2878 ppb

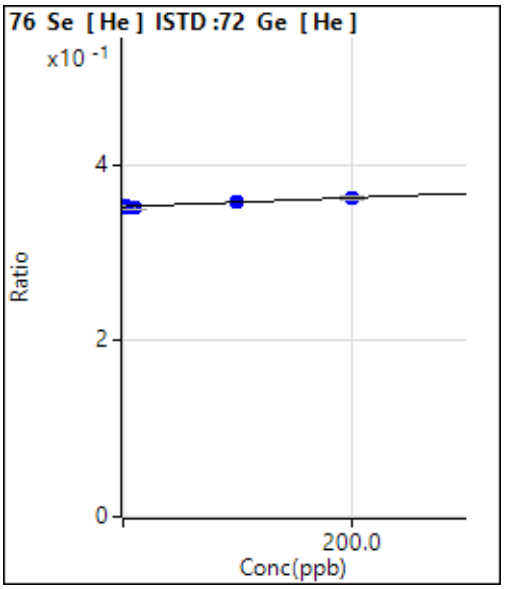
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 964449.83 | 0.3484 | P | 0.7 | |
| 2 | ☐ | 2.000 | -34.153 | 953861.89 | 0.3453 | P | 0.1 | -1807.7 |
| 3 | ☐ | 5.000 | -12.512 | 951751.63 | 0.3473 | P | 1.2 | -350.2 |
| 4 | ☐ | 10.000 | 22.069 | 956605.06 | 0.3504 | P | 0.7 | 120.7 |
| 5 | ☐ | 100.000 | 106.437 | 939797.64 | 0.3581 | P | 0.6 | 6.4 |
| 6 | ☐ | 200.000 | 196.977 | 932289.20 | 0.3664 | P | 1.0 | -1.5 |

y = 9.1040E-005 * x + 0.3484
R = 0.9813
DL = 76.06 ppb
BEC = 3827 ppb

Weight: <None>
Min Conc: <None>

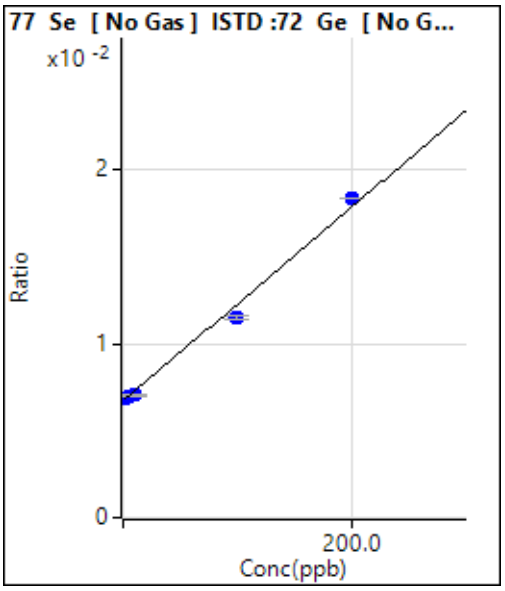



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 276120.31 | 0.3525 | P | 0.7 | |
| 2 | ☐ | 2.000 | 2.937 | 274652.09 | 0.3527 | P | 0.6 | 46.9 |
| 3 | ☐ | 5.000 | -19.736 | 272962.69 | 0.3515 | P | 0.2 | -494.7 |
| 4 | ☐ | 10.000 | -14.902 | 270475.83 | 0.3518 | P | 1.2 | -249.0 |
| 5 | ☐ | 100.000 | 116.662 | 265320.74 | 0.3586 | P | 0.2 | 16.7 |
| 6 | ☐ | 200.000 | 193.523 | 262331.56 | 0.3625 | P | 1.0 | -3.2 |

y = 5.1530E-005 * x + 0.3525
R = 0.9846
DL = 135.4 ppb
BEC = 6841 ppb

Weight: <None>
Min Conc: <None>

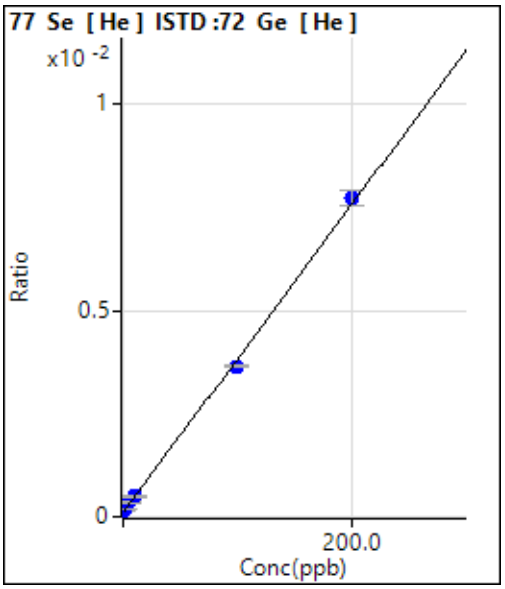
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 18893.33 | 0.0068 | P | 1.3 | |
| 2 | ☐ | 2.000 | 0.484 | 18926.85 | 0.0069 | P | 2.9 | -75.8 |
| 3 | ☐ | 5.000 | 3.393 | 19223.86 | 0.0070 | P | 1.9 | -32.1 |
| 4 | ☐ | 10.000 | 3.949 | 19230.54 | 0.0070 | P | 0.6 | -60.5 |
| 5 | ☐ | 100.000 | 84.919 | 30290.71 | 0.0115 | P | 2.3 | -15.1 |
| 6 | ☐ | 200.000 | 207.898 | 46760.28 | 0.0184 | P | 0.5 | 3.9 |

y = 5.5556E-005 * x + 0.0068
R = 0.9963
DL = 4.645 ppb
BEC = 122.9 ppb

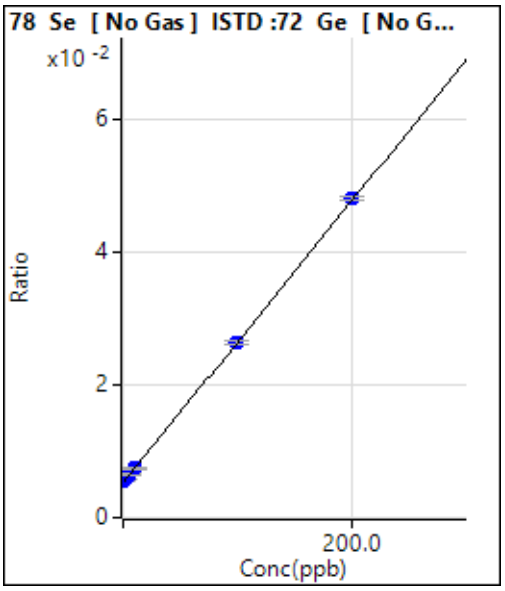
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 113.33 | 0.0001 | P | 4.8 | |
| 2 | ☐ | 2.000 | 1.171 | 146.67 | 0.0002 | P | 21.0 | -41.4 |
| 3 | ☐ | 5.000 | 5.674 | 276.68 | 0.0004 | P | 9.6 | 13.5 |
| 4 | ☐ | 10.000 | 9.252 | 376.68 | 0.0005 | P | 17.0 | -7.5 |
| 5 | ☐ | 100.000 | 93.540 | 2690.32 | 0.0036 | P | 1.4 | -6.5 |
| 6 | ☐ | 200.000 | 203.259 | 5594.58 | 0.0077 | P | 4.4 | 1.6 |

y = 3.7321E-005 * x + 1.4469E-004
R = 0.9993
DL = 0.5551 ppb
BEC = 3.877 ppb

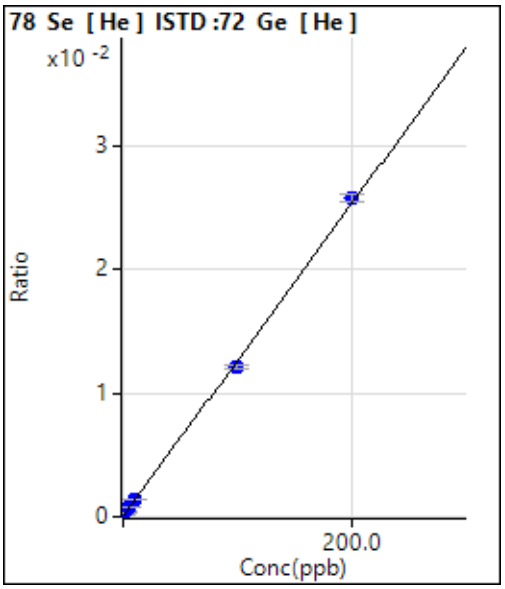
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 15248.81 | 0.0055 | P | 1.6 | |
| 2 | ☐ | 2.000 | 1.431 | 16053.06 | 0.0058 | P | 2.2 | -28.5 |
| 3 | ☐ | 5.000 | 4.536 | 17731.87 | 0.0065 | P | 3.1 | -9.3 |
| 4 | ☐ | 10.000 | 9.201 | 20355.46 | 0.0075 | P | 4.4 | -8.0 |
| 5 | ☐ | 100.000 | 98.554 | 69225.47 | 0.0264 | P | 1.5 | -1.4 |
| 6 | ☐ | 200.000 | 200.780 | 122204.65 | 0.0480 | P | 1.2 | 0.4 |

y = 2.1174E-004 * x + 0.0055
R = 1.0000
DL = 1.21 ppb
BEC = 26.02 ppb

Weight: <None>
Min Conc: <None>

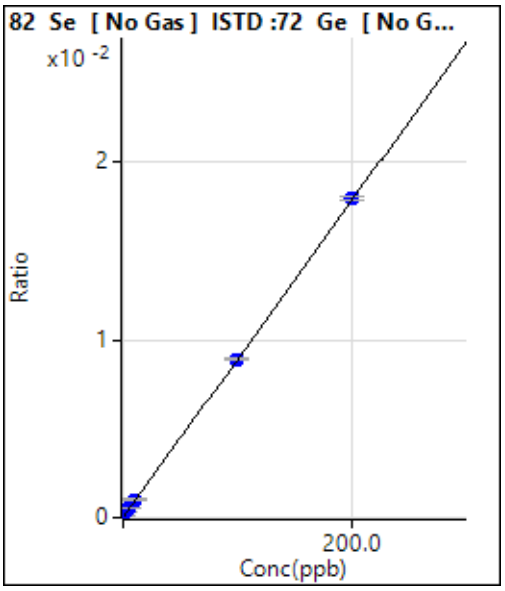



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 134.67 | 0.0002 | P | 9.2 | |
| 2 | ☐ | 2.000 | 1.723 | 303.34 | 0.0004 | P | 16.3 | -13.9 |
| 3 | ☐ | 5.000 | 4.697 | 594.01 | 0.0008 | P | 7.0 | -6.1 |
| 4 | ☐ | 10.000 | 9.783 | 1082.04 | 0.0014 | P | 5.0 | -2.2 |
| 5 | ☐ | 100.000 | 94.578 | 8966.30 | 0.0121 | P | 2.7 | -5.4 |
| 6 | ☐ | 200.000 | 202.732 | 18650.09 | 0.0258 | P | 2.3 | 1.4 |

y = 1.2629E-004 * x + 1.7189E-004
R = 0.9995
DL = 0.3746 ppb
BEC = 1.361 ppb

Weight: <None>
Min Conc: <None>

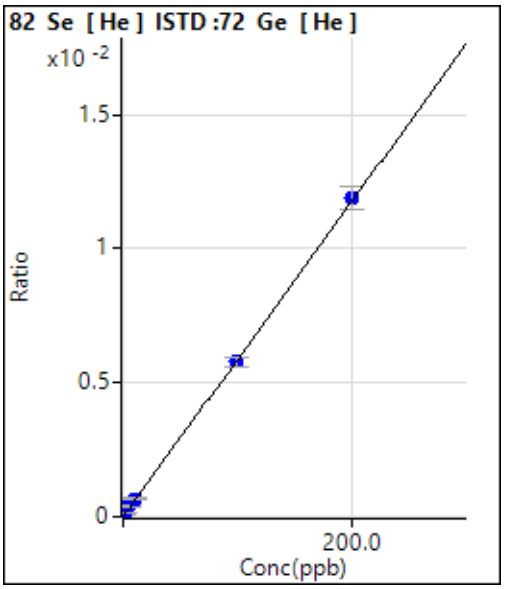
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 306.68 | 0.0001 | P | 16.5 | |
| 2 | ☐ | 2.000 | 1.873 | 766.70 | 0.0003 | P | 4.0 | -6.3 |
| 3 | ☐ | 5.000 | 5.107 | 1550.12 | 0.0006 | P | 4.5 | 2.1 |
| 4 | ☐ | 10.000 | 10.196 | 2780.35 | 0.0010 | P | 9.0 | 2.0 |
| 5 | ☐ | 100.000 | 98.931 | 23413.94 | 0.0089 | P | 2.0 | -1.1 |
| 6 | ☐ | 200.000 | 200.523 | 45723.90 | 0.0180 | P | 1.6 | 0.3 |

y = 8.9057E-005 * x + 1.1076E-004
R = 1.0000
DL = 0.6149 ppb
BEC = 1.244 ppb

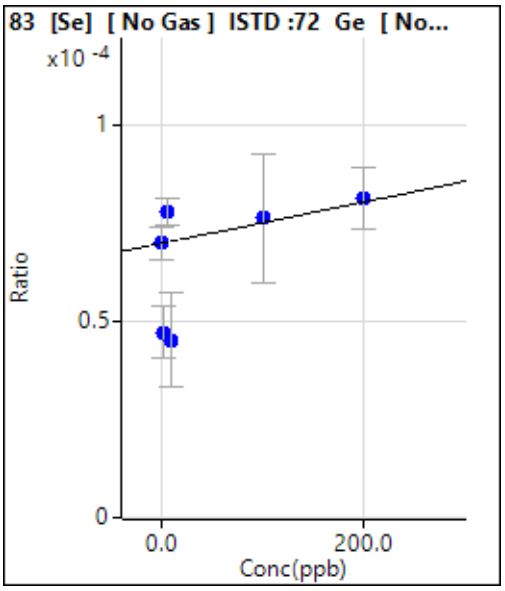
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 50.00 | 0.0001 | P | 34.9 | |
| 2 | ☐ | 2.000 | 1.681 | 126.67 | 0.0002 | P | 16.7 | -16.0 |
| 3 | ☐ | 5.000 | 6.072 | 326.68 | 0.0004 | P | 20.0 | 21.4 |
| 4 | ☐ | 10.000 | 10.420 | 520.02 | 0.0007 | P | 17.8 | 4.2 |
| 5 | ☐ | 100.000 | 97.308 | 4280.75 | 0.0058 | P | 6.3 | -2.7 |
| 6 | ☐ | 200.000 | 201.301 | 8609.59 | 0.0119 | P | 7.0 | 0.7 |

y = 5.8789E-005 * x + 6.3889E-005
R = 0.9998
DL = 1.137 ppb
BEC = 1.087 ppb

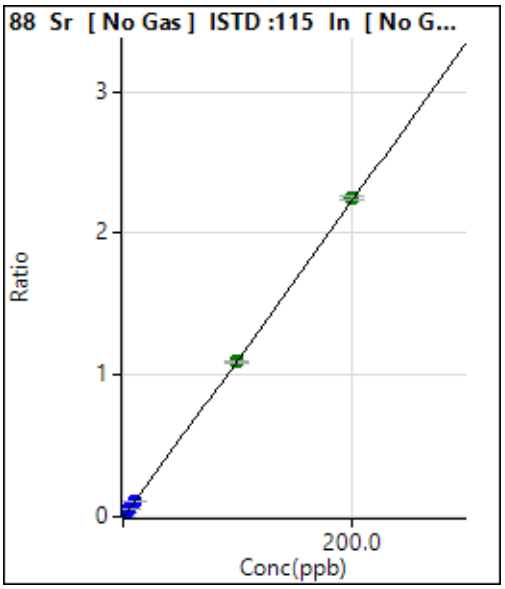
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 193.34 | 0.0001 | P | 12.2 | |
| 2 | ☐ | 2.000 | -431.078 | 130.00 | 0.0000 | P | 28.0 | -21653. |
| 3 | ☐ | 5.000 | 150.529 | 213.34 | 0.0001 | P | 9.1 | 2910.6 |
| 4 | ☐ | 10.000 | -466.543 | 123.33 | 0.0000 | P | 52.8 | -4765.4 |
| 5 | ☐ | 100.000 | 118.247 | 200.00 | 0.0001 | P | 42.7 | 18.2 |
| 6 | ☐ | 200.000 | 215.396 | 206.67 | 0.0001 | P | 19.7 | 7.7 |

y = 5.2823E-008 * x + 6.9859E-005
R = 0.5821
DL = 482.1 ppb
BEC = 1323 ppb

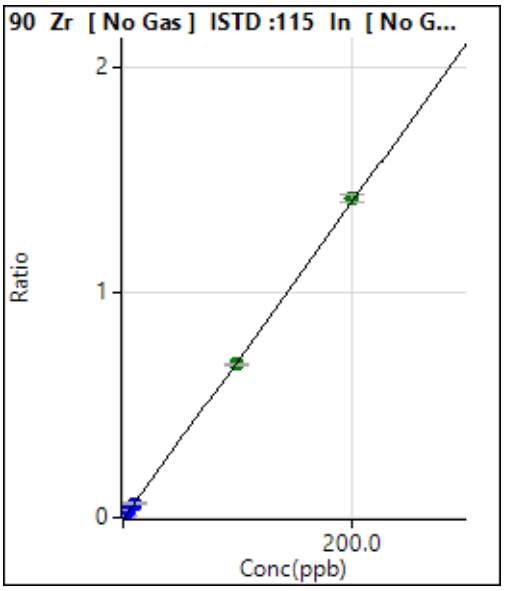
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2050.19 | 0.0006 | P | 8.6 | |
| 2 | ☐ | 2.000 | 1.968 | 81035.10 | 0.0226 | P | 1.6 | -1.6 |
| 3 | ☐ | 5.000 | 4.962 | 200779.89 | 0.0560 | P | 3.4 | -0.8 |
| 4 | ☐ | 10.000 | 9.858 | 398184.94 | 0.1108 | P | 1.7 | -1.4 |
| 5 | ☐ | 100.000 | 97.569 | 3725471.09 | 1.0912 | A | 2.1 | -2.4 |
| 6 | ☐ | 200.000 | 201.224 | 7444901.76 | 2.2499 | A | 1.4 | 0.6 |

y = 0.0112 * x + 5.7259E-004
R = 0.9999
DL = 0.01323 ppb
BEC = 0.05122 ppb

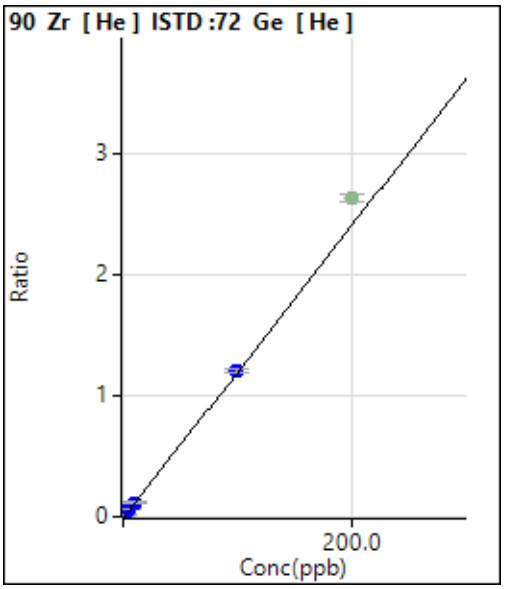
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1160.07 | 0.0003 | P | 2.5 | |
| 2 | ☐ | 2.000 | 1.612 | 41905.50 | 0.0117 | P | 3.8 | -19.4 |
| 3 | ☐ | 5.000 | 4.333 | 110428.43 | 0.0308 | P | 2.1 | -13.3 |
| 4 | ☐ | 10.000 | 9.034 | 229720.13 | 0.0639 | P | 1.5 | -9.7 |
| 5 | ☐ | 100.000 | 96.694 | 2324542.26 | 0.6809 | A | 2.2 | -3.3 |
| 6 | ☐ | 200.000 | 201.722 | 4698977.22 | 1.4201 | A | 1.9 | 0.9 |

y = 0.0070 * x + 3.2394E-004
R = 0.9998
DL = 0.003504 ppb
BEC = 0.04603 ppb

Weight: <None>
Min Conc: <None>

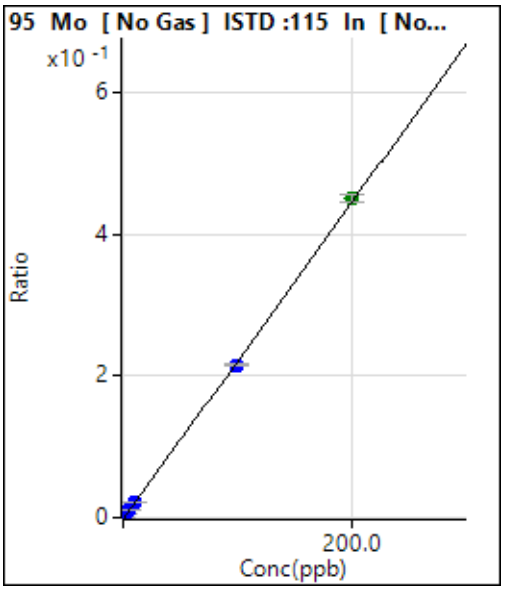



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1343.43 | 0.0017 | P | 10.7 | |
| 2 | ☐ | 2.000 | 1.668 | 17021.02 | 0.0219 | P | 1.2 | -16.6 |
| 3 | ☐ | 5.000 | 4.578 | 44252.81 | 0.0570 | P | 1.7 | -8.4 |
| 4 | ☐ | 10.000 | 9.688 | 91260.17 | 0.1187 | P | 2.0 | -3.1 |
| 5 | ☐ | 100.000 | 100.059 | 895303.56 | 1.2098 | P | 2.6 | 0.1 |
| 6 | ☑ | 200.000 | | 1904685.70 | 2.6322 | A | 2.4 | |

y = 0.0121 * x + 0.0017
R = 1.0000
DL = 0.04578 ppb
BEC = 0.1421 ppb

Weight: <None>
Min Conc: <None>

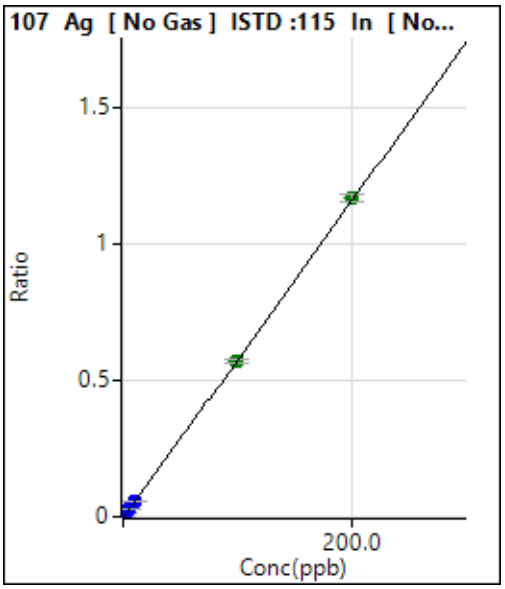
Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 233.34 | 0.0001 | P | 27.6 | |
| 2 | ☐ | 2.000 | 1.858 | 15132.06 | 0.0042 | P | 3.4 | -7.1 |
| 3 | ☐ | 5.000 | 4.755 | 38274.67 | 0.0107 | P | 3.6 | -4.9 |
| 4 | ☐ | 10.000 | 9.406 | 75722.19 | 0.0211 | P | 2.4 | -5.9 |
| 5 | ☐ | 100.000 | 96.579 | 736414.84 | 0.2157 | P | 2.3 | -3.4 |
| 6 | ☐ | 200.000 | 201.748 | 1490733.83 | 0.4505 | A | 2.2 | 0.9 |

y = 0.0022 * x + 6.5128E-005
R = 0.9998
DL = 0.0242 ppb
BEC = 0.02917 ppb

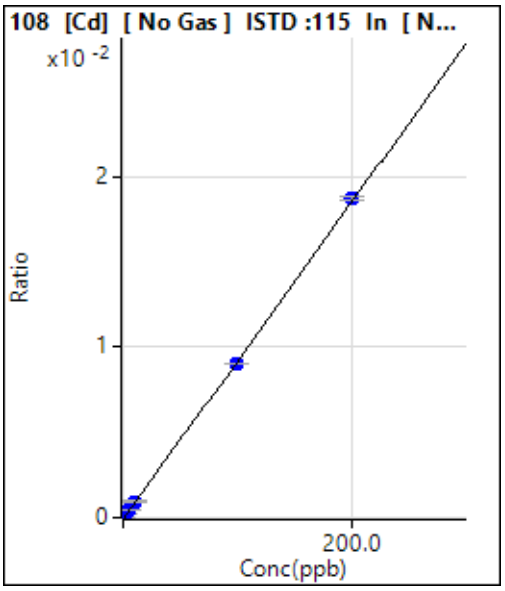
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 796.70 | 0.0002 | P | 12.6 | |
| 2 | ☐ | 2.000 | 1.995 | 42544.71 | 0.0118 | P | 3.3 | -0.2 |
| 3 | ☐ | 5.000 | 5.072 | 106669.91 | 0.0298 | P | 2.2 | 1.4 |
| 4 | ☐ | 10.000 | 10.013 | 210517.69 | 0.0586 | P | 2.7 | 0.1 |
| 5 | ☐ | 100.000 | 98.055 | 1951426.84 | 0.5716 | A | 2.0 | -1.9 |
| 6 | ☐ | 200.000 | 200.970 | 3875701.51 | 1.1713 | A | 1.9 | 0.5 |

y = 0.0058 * x + 2.2243E-004
R = 0.9999
DL = 0.01448 ppb
BEC = 0.03817 ppb

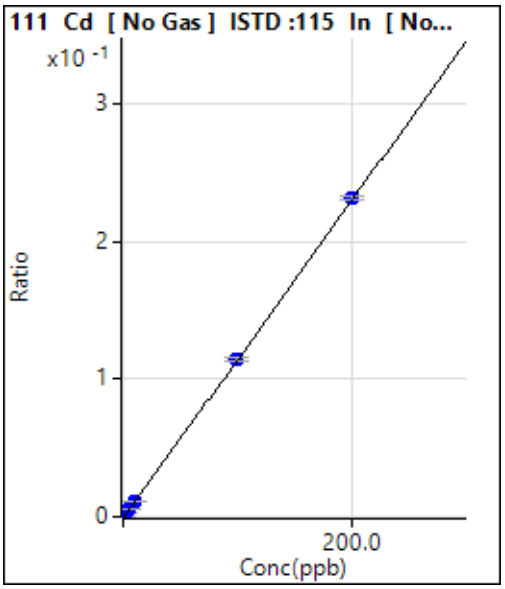
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 10.00 | 0.0000 | P | 0.3 | |
| 2 | ☐ | 2.000 | 2.067 | 700.03 | 0.0002 | P | 18.7 | 3.3 |
| 3 | ☐ | 5.000 | 5.152 | 1726.81 | 0.0005 | P | 5.2 | 3.0 |
| 4 | ☐ | 10.000 | 10.151 | 3403.84 | 0.0009 | P | 3.3 | 1.5 |
| 5 | ☐ | 100.000 | 97.092 | 30835.77 | 0.0090 | P | 0.4 | -2.9 |
| 6 | ☐ | 200.000 | 201.442 | 61997.17 | 0.0187 | P | 1.8 | 0.7 |

y = 9.2995E-005 * x + 2.7925E-006
R = 0.9998
DL = 0.0002487 ppb
BEC = 0.03003 ppb

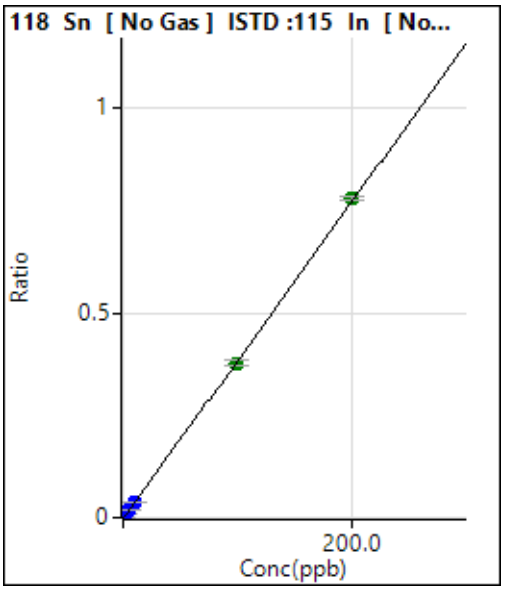
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 79.27 | 0.0000 | P | 25.2 | |
| 2 | ☐ | 2.000 | 1.919 | 8051.91 | 0.0022 | P | 6.9 | -4.1 |
| 3 | ☐ | 5.000 | 4.933 | 20522.90 | 0.0057 | P | 3.4 | -1.3 |
| 4 | ☐ | 10.000 | 9.798 | 40825.51 | 0.0114 | P | 2.4 | -2.0 |
| 5 | ☐ | 100.000 | 98.739 | 390069.23 | 0.1143 | P | 2.0 | -1.3 |
| 6 | ☐ | 200.000 | 200.643 | 768181.74 | 0.2321 | P | 1.2 | 0.3 |

y = 0.0012 * x + 2.2138E-005
R = 1.0000
DL = 0.01449 ppb
BEC = 0.01914 ppb

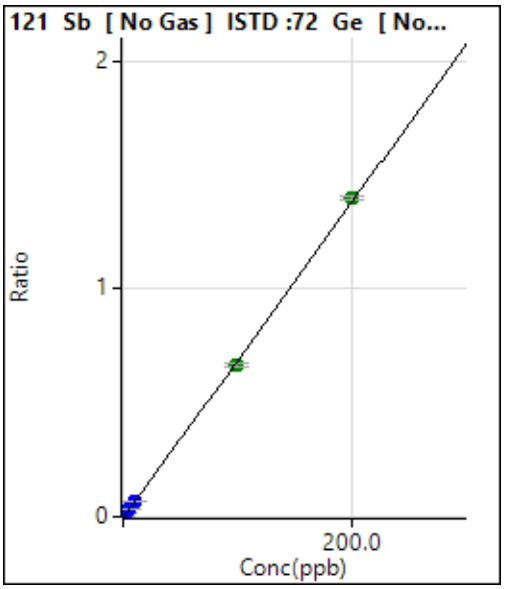
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3933.98 | 0.0011 | P | 5.3 | |
| 2 | ☐ | 2.000 | 1.961 | 31170.16 | 0.0087 | P | 0.7 | -2.0 |
| 3 | ☐ | 5.000 | 4.885 | 71599.30 | 0.0200 | P | 0.9 | -2.3 |
| 4 | ☐ | 10.000 | 9.745 | 139404.93 | 0.0388 | P | 2.1 | -2.6 |
| 5 | ☐ | 100.000 | 97.395 | 1289413.81 | 0.3777 | A | 3.0 | -2.6 |
| 6 | ☐ | 200.000 | 201.318 | 2579378.76 | 0.7795 | A | 1.4 | 0.7 |

y = 0.0039 * x + 0.0011
R = 0.9999
DL = 0.04483 ppb
BEC = 0.2841 ppb

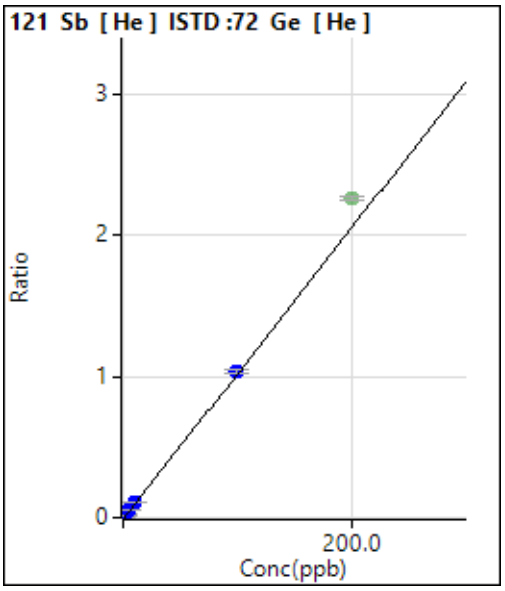
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 880.05 | 0.0003 | P | 10.9 | |
| 2 | ☐ | 2.000 | 1.891 | 37092.18 | 0.0134 | P | 2.4 | -5.5 |
| 3 | ☐ | 5.000 | 4.830 | 92645.46 | 0.0338 | P | 1.3 | -3.4 |
| 4 | ☐ | 10.000 | 9.763 | 185632.76 | 0.0680 | P | 2.2 | -2.4 |
| 5 | ☐ | 100.000 | 96.300 | 1753151.12 | 0.6680 | A | 2.0 | -3.7 |
| 6 | ☐ | 200.000 | 201.867 | 3562489.53 | 1.3999 | A | 0.8 | 0.9 |

y = 0.0069 * x + 3.1794E-004
R = 0.9998
DL = 0.01495 ppb
BEC = 0.04586 ppb

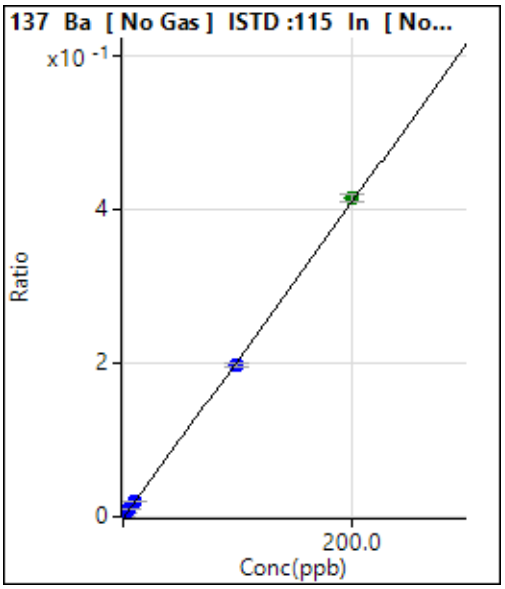
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 333.34 | 0.0004 | P | 19.8 | |
| 2 | ☐ | 2.000 | 1.960 | 16106.68 | 0.0207 | P | 2.5 | -2.0 |
| 3 | ☐ | 5.000 | 4.984 | 40335.00 | 0.0519 | P | 1.6 | -0.3 |
| 4 | ☐ | 10.000 | 10.302 | 82207.29 | 0.1069 | P | 3.4 | 3.0 |
| 5 | ☐ | 100.000 | 99.971 | 765101.92 | 1.0339 | P | 2.5 | 0.0 |
| 6 | ☑ | 200.000 | | 1639505.24 | 2.2657 | A | 0.9 | |

y = 0.0103 * x + 4.2551E-004
R = 1.0000
DL = 0.0244 ppb
BEC = 0.04116 ppb

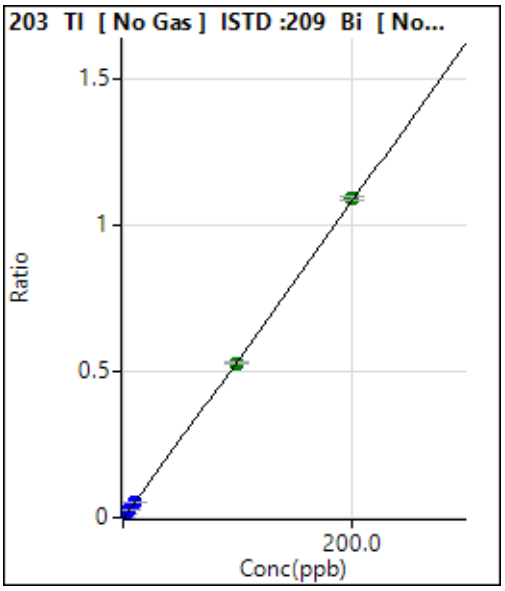
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 650.03 | 0.0002 | P | 13.1 | |
| 2 | ☐ | 2.000 | 1.939 | 14928.66 | 0.0042 | P | 2.0 | -3.1 |
| 3 | ☐ | 5.000 | 4.797 | 35889.37 | 0.0100 | P | 1.5 | -4.1 |
| 4 | ☐ | 10.000 | 9.545 | 71008.44 | 0.0198 | P | 2.4 | -4.5 |
| 5 | ☐ | 100.000 | 96.246 | 674393.61 | 0.1975 | P | 1.8 | -3.8 |
| 6 | ☐ | 200.000 | 201.906 | 1370541.07 | 0.4142 | A | 2.1 | 1.0 |

y = 0.0021 * x + 1.8147E-004
R = 0.9998
DL = 0.03472 ppb
BEC = 0.0885 ppb

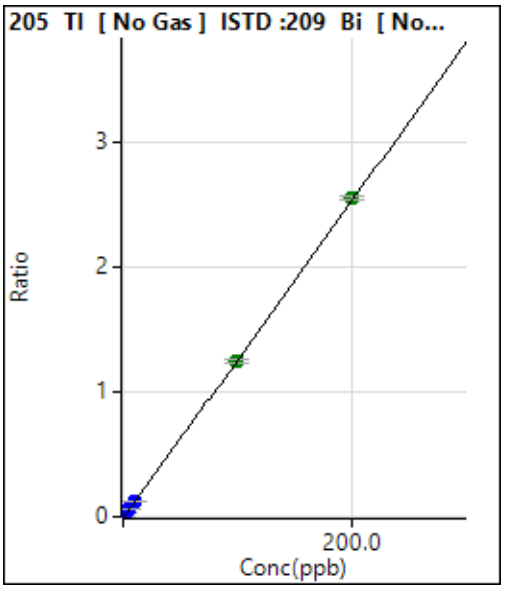
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 783.38 | 0.0002 | P | 12.8 | |
| 2 | ☐ | 2.000 | 1.983 | 40632.33 | 0.0110 | P | 2.1 | -0.9 |
| 3 | ☐ | 5.000 | 4.999 | 101224.34 | 0.0273 | P | 2.8 | 0.0 |
| 4 | ☐ | 10.000 | 9.974 | 201815.17 | 0.0543 | P | 1.1 | -0.3 |
| 5 | ☐ | 100.000 | 97.555 | 1894447.94 | 0.5296 | A | 2.3 | -2.4 |
| 6 | ☐ | 200.000 | 201.224 | 3786081.09 | 1.0921 | A | 1.2 | 0.6 |

y = 0.0054 * x + 2.1055E-004
R = 0.9999
DL = 0.01485 ppb
BEC = 0.0388 ppb

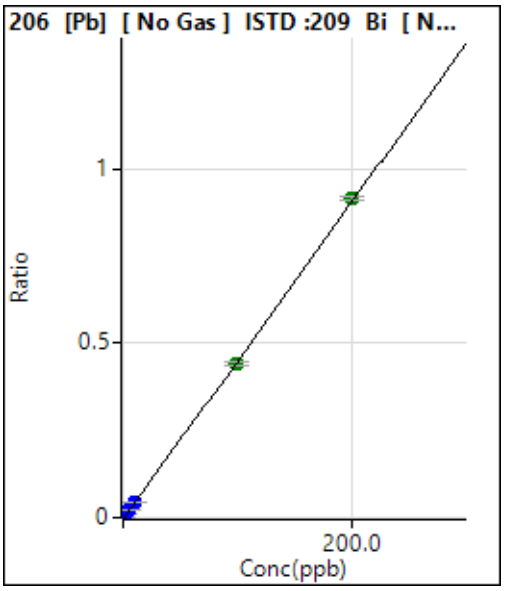
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1563.46 | 0.0004 | P | 15.3 | |
| 2 | ☐ | 2.000 | 2.018 | 96544.71 | 0.0261 | P | 2.2 | 0.9 |
| 3 | ☐ | 5.000 | 5.092 | 241227.03 | 0.0651 | P | 2.4 | 1.8 |
| 4 | ☐ | 10.000 | 10.148 | 480696.61 | 0.1294 | P | 1.7 | 1.5 |
| 5 | ☐ | 100.000 | 97.989 | 4457224.10 | 1.2459 | A | 2.1 | -2.0 |
| 6 | ☐ | 200.000 | 200.996 | 8858542.16 | 2.5552 | A | 1.5 | 0.5 |

y = 0.0127 * x + 4.2015E-004
R = 0.9999
DL = 0.01513 ppb
BEC = 0.03305 ppb

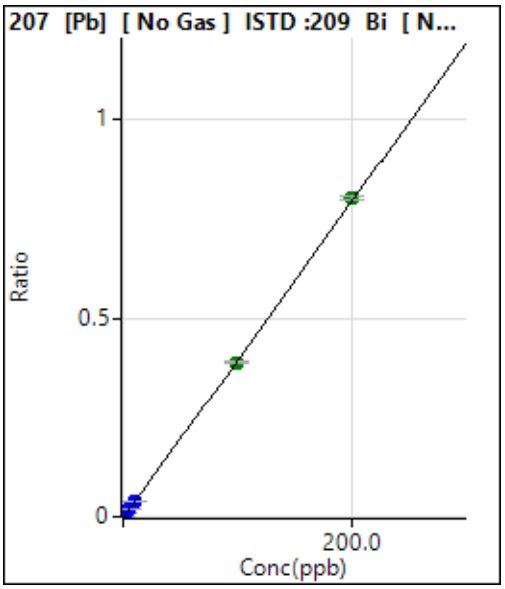
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 773.37 | 0.0002 | P | 15.5 | |
| 2 | ☐ | 2.000 | 1.955 | 33642.00 | 0.0091 | P | 1.9 | -2.2 |
| 3 | ☐ | 5.000 | 4.954 | 84019.85 | 0.0227 | P | 3.1 | -0.9 |
| 4 | ☐ | 10.000 | 10.031 | 169887.31 | 0.0457 | P | 1.2 | 0.3 |
| 5 | ☐ | 100.000 | 97.040 | 1576359.19 | 0.4406 | A | 2.0 | -3.0 |
| 6 | ☐ | 200.000 | 201.480 | 3171026.00 | 0.9147 | A | 1.7 | 0.7 |

y = 0.0045 * x + 2.0792E-004
R = 0.9998
DL = 0.02134 ppb
BEC = 0.04581 ppb

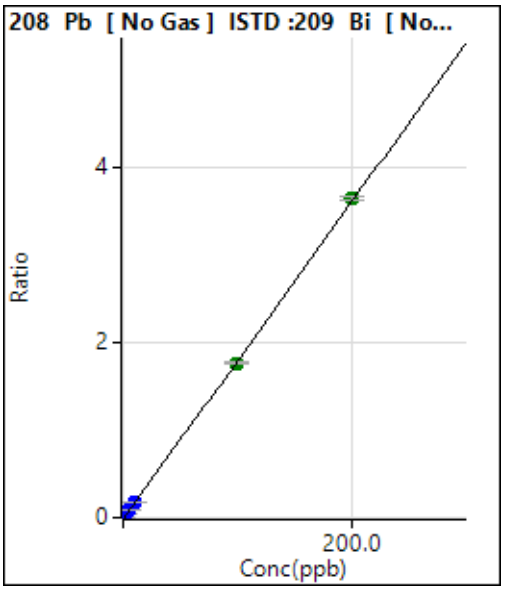
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 693.37 | 0.0002 | P | 9.8 | |
| 2 | ☐ | 2.000 | 1.998 | 30213.19 | 0.0082 | P | 1.8 | -0.1 |
| 3 | ☐ | 5.000 | 4.954 | 73852.60 | 0.0199 | P | 1.3 | -0.9 |
| 4 | ☐ | 10.000 | 9.884 | 147132.54 | 0.0396 | P | 1.0 | -1.2 |
| 5 | ☐ | 100.000 | 97.288 | 1388849.67 | 0.3882 | A | 1.7 | -2.7 |
| 6 | ☐ | 200.000 | 201.363 | 2785032.87 | 0.8033 | A | 1.1 | 0.7 |

y = 0.0040 * x + 1.8639E-004
R = 0.9999
DL = 0.01374 ppb
BEC = 0.04673 ppb

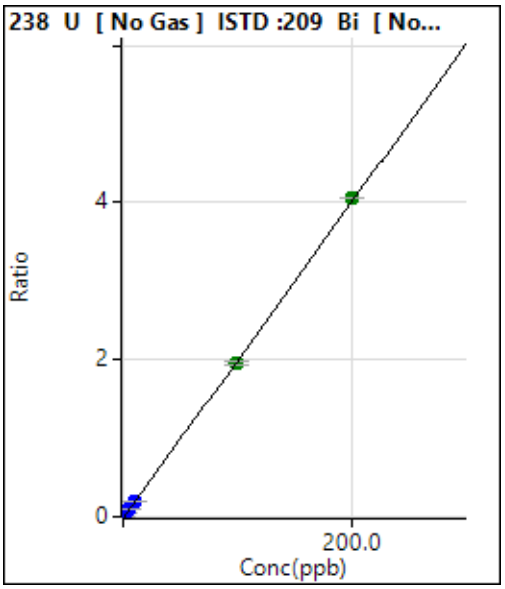
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3066.87 | 0.0008 | P | 5.7 | |
| 2 | ☐ | 2.000 | 1.966 | 135324.42 | 0.0365 | P | 1.8 | -1.7 |
| 3 | ☐ | 5.000 | 4.948 | 335773.60 | 0.0907 | P | 2.2 | -1.0 |
| 4 | ☐ | 10.000 | 9.957 | 674750.46 | 0.1817 | P | 1.4 | -0.4 |
| 5 | ☐ | 100.000 | 97.556 | 6341054.44 | 1.7725 | A | 2.0 | -2.4 |
| 6 | ☐ | 200.000 | 201.226 | 12672095.02 | 3.6552 | A | 1.2 | 0.6 |

y = 0.0182 * x + 8.2440E-004
R = 0.9999
DL = 0.00771 ppb
BEC = 0.04539 ppb

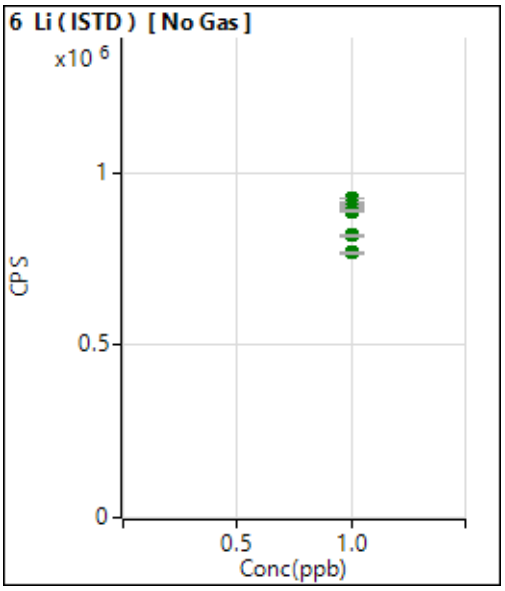
Weight: <None>
Min Conc: <None>



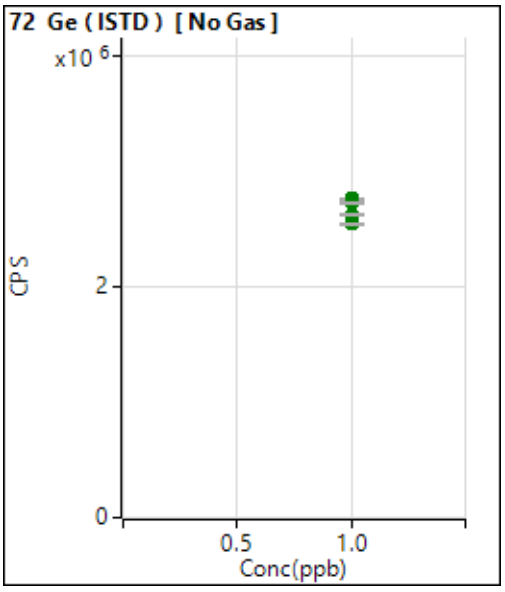

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1900.18 | 0.0005 | P | 2.5 | |
| 2 | ☐ | 2.000 | 1.845 | 139419.83 | 0.0376 | P | 1.9 | -7.7 |
| 3 | ☐ | 5.000 | 4.733 | 354555.30 | 0.0958 | P | 1.4 | -5.3 |
| 4 | ☐ | 10.000 | 9.462 | 709163.35 | 0.1909 | P | 1.1 | -5.4 |
| 5 | ☐ | 100.000 | 96.705 | 6963452.81 | 1.9465 | A | 2.5 | -3.3 |
| 6 | ☐ | 200.000 | 201.683 | 14071646.46 | 4.0590 | A | 0.4 | 0.8 |

y = 0.0201 * x + 5.1076E-004
R = 0.9998
DL = 0.001885 ppb
BEC = 0.02538 ppb

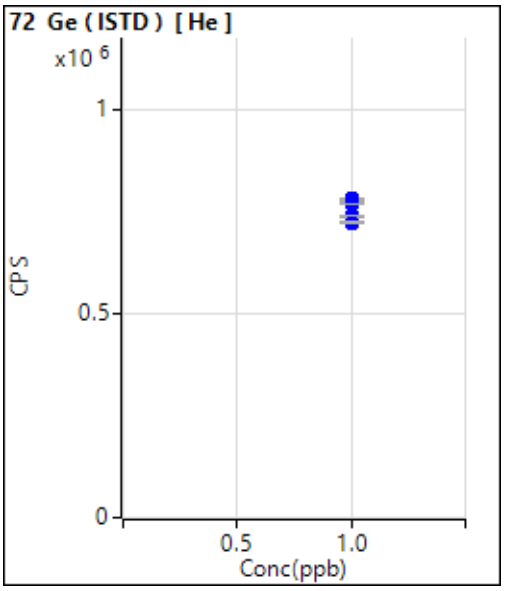
Weight: <None>
Min Conc: <None>



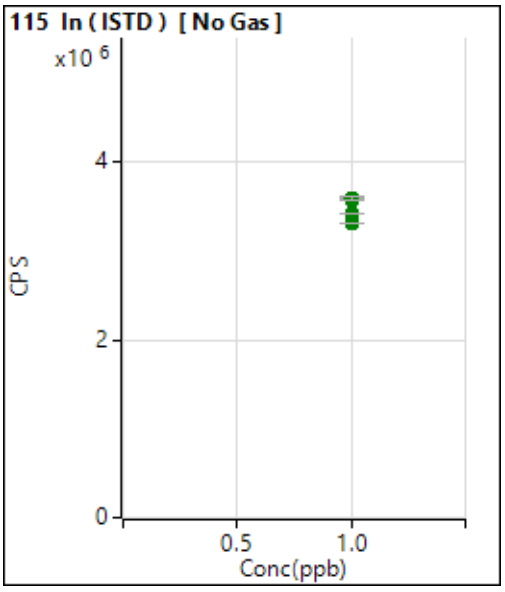

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 925046.91 | | A | 0.3 | |
| 2 | ☐ | 1.000 | | 910090.95 | | A | 0.3 | |
| 3 | ☐ | 1.000 | | 898410.34 | | A | 0.6 | |
| 4 | ☐ | 1.000 | | 887536.48 | | A | 0.6 | |
| 5 | ☐ | 1.000 | | 816416.59 | | A | 0.7 | |
| 6 | ☐ | 1.000 | | 766281.29 | | A | 0.3 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 2767984.33 | | A | 0.3 | |
| 2 | ☐ | 1.000 | | 2762231.42 | | A | 0.4 | |
| 3 | ☐ | 1.000 | | 2740635.27 | | A | 0.7 | |
| 4 | ☐ | 1.000 | | 2729773.60 | | A | 0.5 | |
| 5 | ☐ | 1.000 | | 2624311.16 | | A | 0.8 | |
| 6 | ☐ | 1.000 | | 2544719.96 | | A | 0.4 | |

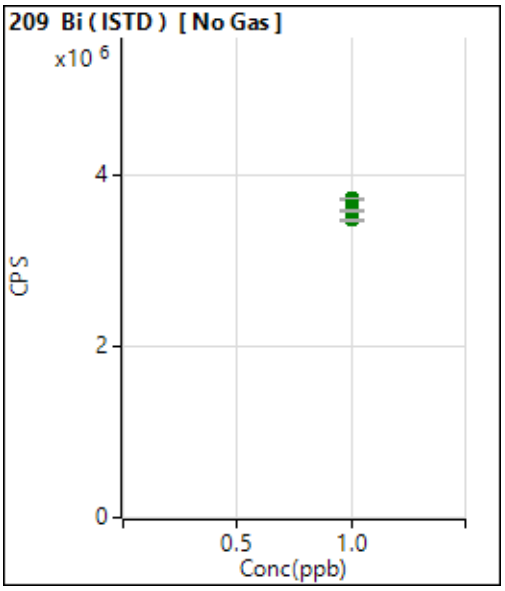



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 783220.07 | | P | 0.6 | |
| 2 | ☐ | 1.000 | | 778735.46 | | P | 0.3 | |
| 3 | ☐ | 1.000 | | 776516.79 | | P | 0.6 | |
| 4 | ☐ | 1.000 | | 768900.07 | | P | 0.2 | |
| 5 | ☐ | 1.000 | | 739983.09 | | P | 0.6 | |
| 6 | ☐ | 1.000 | | 723640.25 | | P | 0.4 | |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3581092.47 | | A | 0.3 | |
| 2 | ☐ | 1.000 | | 3590901.90 | | A | 0.1 | |
| 3 | ☐ | 1.000 | | 3582606.62 | | A | 0.3 | |
| 4 | ☐ | 1.000 | | 3594961.40 | | A | 0.7 | |
| 5 | ☐ | 1.000 | | 3414111.39 | | A | 0.1 | |
| 6 | ☐ | 1.000 | | 3309119.69 | | A | 0.3 | |

Calibration for 017_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3720386.09 | | A | 0.2 | |
| 2 | ☐ | 1.000 | | 3704045.15 | | A | 0.8 | |
| 3 | ☐ | 1.000 | | 3702864.53 | | A | 0.7 | |
| 4 | ☐ | 1.000 | | 3714470.67 | | A | 0.2 | |
| 5 | ☐ | 1.000 | | 3577512.03 | | A | 0.3 | |
| 6 | ☐ | 1.000 | | 3466716.51 | | A | 0.4 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LLICV2 |
| Data File Name | 019LCV2.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T11:15:32-05:00 |
| Sample Type | LLCCV2 |
| Dilution | 1 |
| Comment | |
| ISTD Ref FileName | 010CALB.d |
| Sample QC Pass/Fail | Pass |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 2.034 | 2.034 | 4.57 | 71307 | 0.00 | 2 | |
| Be | 9 | 1 | No Gas | 1.997 | 1.997 | 5.95 | 6146 | 0.03 | 2 | |
| V | 51 | 2 | He | 1.512 | 1.512 | 5.72 | 15371 | 0.01 | 2 | |
| Cr | 52 | 2 | He | 1.948 | 1.948 | 8.95 | 19658 | 0.01 | 2 | |
| Fe | 56 | 2 | He | 200.778 | 200.778 | 2.07 | 1235253 | 0.02 | 200 | |
| Se | 78 | 2 | He | 2.042 | 2.042 | 7.41 | 326 | 0.63 | 2 | |
| As | 75 | 2 | He | 1.951 | 1.951 | 5.58 | 2386 | 0.08 | 2 | |
| Ca | 44 | 2 | He | 211.686 | 211.686 | 5.49 | 8283 | 2.56 | 200 | |
| Na | 23 | 2 | He | 202.096 | 202.096 | 2.03 | 242339 | 0.08 | 200 | |
| Mg | 24 | 2 | He | 199.073 | 199.073 | 1.12 | 111542 | 0.18 | 200 | |
| K | 39 | 2 | He | 194.832 | 194.832 | 1.47 | 219294 | 0.09 | 200 | |
| Mn | 55 | 2 | He | 1.966 | 1.966 | 1.26 | 10514 | 0.02 | 2 | |
| Co | 59 | 2 | He | 2.055 | 2.055 | 4.02 | 20486 | 0.01 | 2 | |
| Ni | 60 | 2 | He | 2.004 | 2.004 | 3.61 | 5231 | 0.04 | 2 | |
| Cu | 63 | 2 | He | 2.135 | 2.135 | 6.75 | 14895 | 0.01 | 2 | |
| Zn | 66 | 2 | He | 1.964 | 1.964 | 5.15 | 3400 | 0.06 | 2 | |
| Al | 27 | 2 | He | 1.580 | 1.580 | 17.02 | 1477 | 0.11 | 2 | |
| B | 11 | 1 | No Gas | 11.335 | 11.335 | 4.22 | 28163 | 0.04 | 10 | |
| Al | 27 | 1 | No Gas | 2.044 | 2.044 | 1.15 | 62633 | 0.00 | 2 | |
| Si | 28 | 1 | No Gas | 7.653 | 7.653 | 15.66 | 307878 | 0.00 | 10 | |
| Ag | 107 | 1 | No Gas | 2.051 | 2.051 | 2.33 | 43023 | 0.00 | 2 | |
| Cd | 111 | 1 | No Gas | 2.046 | 2.046 | 2.59 | 8441 | 0.02 | 2 | |
| Sr | 88 | 1 | No Gas | 1.992 | 1.992 | 0.68 | 80700 | 0.00 | 2 | |
| Mo | 95 | 1 | No Gas | 1.978 | 1.978 | 2.97 | 15836 | 0.01 | 2 | |
| Sn | 118 | 1 | No Gas | 2.015 | 2.015 | 1.91 | 31411 | 0.01 | 2 | |
| Sb | 121 | 1 | No Gas | 1.995 | 1.995 | 2.07 | 38135 | 0.01 | 2 | |
| Ba | 137 | 1 | No Gas | 1.981 | 1.981 | 1.61 | 14992 | 0.01 | 2 | |
| Tl | 205 | 1 | No Gas | 2.047 | 2.047 | 0.34 | 99037 | 0.00 | 2 | |
| Tl | 203 | 1 | No Gas | 2.021 | 2.021 | 2.04 | 41877 | 0.00 | 2 | |
| Pb | 208 | 1 | No Gas | 2.004 | 2.004 | 1.32 | 139439 | 0.00 | 2 | |
| U | 238 | 1 | No Gas | 1.916 | 1.916 | 0.95 | 146326 | 0.00 | 2 | |
| Ca | 43 | 2 | He | 224.341 | 224.341 | 8.92 | 520 | 43.14 | 200 | |
| Sb | 121 | 2 | He | 1.993 | 1.993 | 1.84 | 17145 | 0.01 | 2 | |
| Ti | 47 | 2 | He | 1.861 | 1.861 | 16.25 | 403 | 0.46 | 200 | |
| Cu | 63 | 1 | No Gas | 2.072 | 2.072 | 2.49 | 31002 | 0.01 | 2 | |
| Se | 82 | 1 | No Gas | 2.115 | 2.115 | 12.71 | 807 | 0.26 | 2 | |
| Zr | 90 | 1 | No Gas | 1.714 | 1.714 | 2.14 | 43771 | 0.00 | 2 | |
| Zr | 90 | 2 | He | 1.766 | 1.766 | 5.41 | 18636 | 0.01 | 2 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 838232 | 0.38 | 925047 | 90.62 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ge | 72 | 2 | He | 758642 | 1.02 | 783220 | 96.86 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2695426 | 0.82 | 2767984 | 97.38 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3533463 | 0.28 | 3581092 | 98.67 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3745374 | 1.16 | 3720386 | 100.67 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LLICV5 |
| Data File Name | 020LCV5.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T11:17:56-05:00 |
| Sample Type | LLCCV5 |
| Dilution | 1 |
| Comment | |
| ISTD Ref FileName | 010CALB.d |
| Sample QC Pass/Fail | Pass |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | FinalConc | Conc %RSD | CPS | %RSD | LDR | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 5.210 | 5.210 | 1.31 | 104687 | 0.00 | 5 | |
| Be | 9 | 1 | No Gas | 5.113 | 5.113 | 3.31 | 15313 | 0.03 | 5 | |
| V | 51 | 2 | He | 4.654 | 4.654 | 2.68 | 32595 | 0.01 | 5 | |
| Cr | 52 | 2 | He | 5.167 | 5.167 | 2.05 | 39717 | 0.01 | 5 | |
| Fe | 56 | 2 | He | 522.511 | 522.511 | 2.67 | 3163251 | 0.02 | 500 | |
| Se | 78 | 2 | He | 5.310 | 5.310 | 13.52 | 635 | 0.84 | 5 | |
| As | 75 | 2 | He | 5.063 | 5.063 | 5.45 | 5665 | 0.09 | 5 | |
| Ca | 44 | 2 | He | 520.747 | 520.747 | 5.36 | 19397 | 2.68 | 500 | |
| Na | 23 | 2 | He | 519.818 | 519.818 | 2.61 | 516445 | 0.10 | 500 | |
| Mg | 24 | 2 | He | 517.483 | 517.483 | 2.03 | 285593 | 0.18 | 500 | |
| K | 39 | 2 | He | 501.939 | 501.939 | 2.89 | 430532 | 0.12 | 500 | |
| Mn | 55 | 2 | He | 5.220 | 5.220 | 1.87 | 26509 | 0.02 | 5 | |
| Co | 59 | 2 | He | 5.151 | 5.151 | 2.95 | 50556 | 0.01 | 5 | |
| Ni | 60 | 2 | He | 5.302 | 5.302 | 2.59 | 13340 | 0.04 | 5 | |
| Cu | 63 | 2 | He | 5.377 | 5.377 | 4.59 | 36385 | 0.01 | 5 | |
| Zn | 66 | 2 | He | 5.103 | 5.103 | 3.18 | 7385 | 0.07 | 5 | |
| Al | 27 | 2 | He | 4.846 | 4.846 | 13.96 | 2650 | 0.18 | 5 | |
| B | 11 | 1 | No Gas | 26.144 | 26.144 | 0.60 | 51555 | 0.05 | 25 | |
| Al | 27 | 1 | No Gas | 4.999 | 4.999 | 3.42 | 104741 | 0.00 | 5 | |
| Si | 28 | 1 | No Gas | 22.680 | 22.680 | 2.29 | 414876 | 0.01 | 25 | |
| Ag | 107 | 1 | No Gas | 5.186 | 5.186 | 2.83 | 107634 | 0.00 | 5 | |
| Cd | 111 | 1 | No Gas | 5.110 | 5.110 | 3.27 | 20983 | 0.02 | 5 | |
| Sr | 88 | 1 | No Gas | 5.138 | 5.138 | 2.08 | 205106 | 0.00 | 5 | |
| Mo | 95 | 1 | No Gas | 4.820 | 4.820 | 2.56 | 38278 | 0.01 | 5 | |
| Sn | 118 | 1 | No Gas | 5.043 | 5.043 | 1.81 | 72823 | 0.01 | 5 | |
| Sb | 121 | 1 | No Gas | 5.083 | 5.083 | 3.12 | 95449 | 0.01 | 5 | |
| Ba | 137 | 1 | No Gas | 5.025 | 5.025 | 2.65 | 37079 | 0.01 | 5 | |
| Tl | 205 | 1 | No Gas | 5.248 | 5.248 | 1.18 | 252927 | 0.00 | 5 | |
| Tl | 203 | 1 | No Gas | 5.175 | 5.175 | 1.15 | 106594 | 0.00 | 5 | |
| Pb | 208 | 1 | No Gas | 5.134 | 5.134 | 1.40 | 354390 | 0.00 | 5 | |
| U | 238 | 1 | No Gas | 4.811 | 4.811 | 1.05 | 366718 | 0.00 | 5 | |
| Ca | 43 | 2 | He | 533.082 | 533.082 | 3.88 | 1170 | 45.56 | 500 | |
| Sb | 121 | 2 | He | 4.976 | 4.976 | 1.70 | 42061 | 0.01 | 5 | |
| Ti | 47 | 2 | He | 5.108 | 5.108 | 11.49 | 1083 | 0.47 | 5 | |
| Cu | 63 | 1 | No Gas | 5.212 | 5.212 | 2.20 | 75259 | 0.01 | 5 | |
| Se | 82 | 1 | No Gas | 5.018 | 5.018 | 11.58 | 1497 | 0.34 | 5 | |
| Zr | 90 | 1 | No Gas | 4.518 | 4.518 | 1.39 | 113577 | 0.00 | 5 | |
| Zr | 90 | 2 | He | 4.698 | 4.698 | 1.80 | 47109 | 0.01 | 5 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 822542 | 0.38 | 925047 | 88.92 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ge | 72 | 2 | He | 753956 | 1.34 | 783220 | 96.26 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2684520 | 0.33 | 2767984 | 96.98 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3535441 | 0.97 | 3581092 | 98.73 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3767748 | 0.62 | 3720386 | 101.27 | 70 | 120 | |

# Initial Calibration Blank (ICB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICB |
| Data File Name | 021_ICB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T11:20:20-05:00 |
| Sample Type | ICB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | -0.026 | -251.7 | 47714 | 1.1 | 0.5 | |
| Be | 9 | 1 | No Gas | 0.012 | 95.5 | 118 | 28.1 | 0.5 | |
| V | 51 | 2 | He | -0.485 | -2.7 | 4286 | 1.9 | 2.5 | |
| Cr | 52 | 2 | He | 0.073 | 60.9 | 7819 | 3.6 | 2.5 | |
| Fe | 56 | 2 | He | 2.924 | 3.1 | 36936 | 1.2 | 100 | |
| Se | 78 | 2 | He | -0.100 | -35.6 | 121 | 2.5 | 1 | |
| As | 75 | 2 | He | -0.006 | -226.9 | 300 | 5.1 | 2.5 | |
| Ca | 44 | 2 | He | 28.625 | 10.6 | 1627 | 6.8 | 100 | |
| Na | 23 | 2 | He | 1.356 | 34.8 | 67015 | 0.8 | 100 | |
| Mg | 24 | 2 | He | 1.461 | 21.0 | 2384 | 7.3 | 100 | |
| K | 39 | 2 | He | -3.906 | -21.8 | 80719 | 0.4 | 100 | |
| Mn | 55 | 2 | He | 0.080 | 17.3 | 1147 | 5.8 | 2.5 | |
| Co | 59 | 2 | He | 0.006 | 44.6 | 370 | 7.2 | 2.5 | |
| Ni | 60 | 2 | He | 0.087 | 54.2 | 470 | 24.5 | 2.5 | |
| Cu | 63 | 2 | He | 0.066 | 2.9 | 1020 | 1.0 | 1 | |
| Zn | 66 | 2 | He | 0.431 | 1.3 | 1430 | 0.7 | 2.5 | |
| Al | 27 | 2 | He | 1.602 | 18.5 | 1483 | 7.4 | 5 | |
| B | 11 | 1 | No Gas | 1.254 | 16.7 | 11413 | 3.3 | 0.5 | ICB Main CR1 Failed |
| Al | 27 | 1 | No Gas | 1.620 | 4.9 | 56497 | 2.2 | 5 | |
| Si | 28 | 1 | No Gas | -0.659 | -127.4 | 247708 | 2.9 | 10 | |
| Ag | 107 | 1 | No Gas | -0.002 | -153.8 | 753 | 5.5 | 2.5 | |
| Cd | 111 | 1 | No Gas | 0.000 | 3483.1 | 79 | 22.3 | 1 | |
| Sr | 88 | 1 | No Gas | 0.077 | 4.8 | 5061 | 2.0 | 2.5 | |
| Mo | 95 | 1 | No Gas | 0.008 | 73.3 | 290 | 15.8 | 2.5 | |
| Sn | 118 | 1 | No Gas | 0.131 | 11.7 | 5668 | 3.0 | 5 | |
| Sb | 121 | 1 | No Gas | 0.033 | 12.2 | 1467 | 4.4 | 2.5 | |
| Ba | 137 | 1 | No Gas | 0.168 | 2.7 | 1860 | 2.8 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.002 | 118.0 | 1697 | 8.3 | 1 | |
| Tl | 203 | 1 | No Gas | -0.001 | -240.9 | 773 | 6.1 | 1 | |
| Pb | 208 | 1 | No Gas | 0.010 | 46.7 | 3774 | 8.6 | 2.5 | |
| U | 238 | 1 | No Gas | 0.003 | 62.9 | 2167 | 7.1 | 2.5 | |
| Ca | 43 | 2 | He | 22.581 | 55.7 | 90 | 29.4 | 100 | |
| Sb | 121 | 2 | He | 0.036 | 54.1 | 627 | 26.3 | 2.5 | |
| Ti | 47 | 2 | He | 0.080 | 122.2 | 27 | 78.1 | 2.5 | |
| Se | 82 | 1 | No Gas | -0.009 | -4010.0 | 297 | 29.1 | 1 | |
| Zr | 90 | 1 | No Gas | 0.086 | 6.7 | 3274 | 3.9 | 2.5 | |
| Zr | 90 | 2 | He | 0.082 | 4.6 | 2107 | 1.5 | 2.5 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 827068 | 0.41 | 925047 | 89.41 | 70 | 120 | |
| Ge | 72 | 2 | He | 757847 | 0.30 | 783220 | 96.76 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2693886 | 0.80 | 2767984 | 97.32 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3531725 | 1.18 | 3581092 | 98.62 | 70 | 120 | |

# Initial Calibration Blank (ICB) Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 3760713 | 0.35 | 3720386 | 101.08 | 70 | 120 | |

# Interference Check Solution A (ICS-A) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICSA |
| Data File Name | 023ICSA.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T11:25:08-05:00 |
| Sample Type | ICSA |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 0.552 | 4.8 | 50921 | 0.4 | 0 | ICSA Main CR1 Failed |
| Be | 9 | 1 | No Gas | 0.031 | 11.3 | 165 | 6.1 | 0 | ICSA Main CR1 Failed |
| V | 51 | 2 | He | -0.194 | -10.6 | 5679 | 1.8 | 0 | ICSA Main CR1 Failed |
| Cr | 52 | 2 | He | 0.867 | 4.4 | 12342 | 2.4 | 0 | ICSA Main CR1 Failed |
| Fe | 56 | 2 | He | 106060.794 | 1.3 | 617317031 | 0.7 | 0 | |
| Se | 78 | 2 | He | 0.000 | 79286.7 | 125 | 2.4 | 0 | ICSA Main CR1 Failed |
| As | 75 | 2 | He | 0.380 | 7.6 | 683 | 3.5 | 0 | ICSA Main CR1 Failed |
| Ca | 44 | 2 | He | 100050.769 | 1.8 | 3497181 | 1.5 | 0 | |
| Na | 23 | 2 | He | 107380.331 | 1.7 | 90163135 | 0.8 | 0 | |
| Mg | 24 | 2 | He | 106097.250 | 2.0 | 56320392 | 1.2 | 0 | |
| K | 39 | 2 | He | 105886.743 | 1.8 | 70991019 | 1.1 | 0 | |
| Mn | 55 | 2 | He | 1.915 | 3.5 | 9860 | 2.5 | 0 | ICSA Main CR1 Failed |
| Co | 59 | 2 | He | 1.061 | 1.1 | 10314 | 2.1 | 0 | ICSA Main CR1 Failed |
| Ni | 60 | 2 | He | 1.184 | 0.3 | 3070 | 1.2 | 0 | ICSA Main CR1 Failed |
| Cu | 63 | 2 | He | 0.824 | 3.7 | 5868 | 2.4 | 0 | ICSA Main CR1 Failed |
| Zn | 66 | 2 | He | 3.084 | 4.2 | 4651 | 3.9 | 0 | ICSA Main CR1 Failed |
| Al | 27 | 2 | He | 106755.778 | 2.3 | 37428586 | 1.5 | 0 | |
| B | 11 | 1 | No Gas | 2.795 | 13.1 | 13103 | 3.5 | 0 | |
| Al | 27 | 1 | No Gas | 100386.089 | 1.5 | 1365788300 | 0.9 | 0 | |
| Si | 28 | 1 | No Gas | 29.918 | 6.5 | 443184 | 3.4 | 0 | |
| Ag | 107 | 1 | No Gas | 0.021 | 23.7 | 1120 | 8.5 | 0 | ICSA Main CR1 Failed |
| Cd | 111 | 1 | No Gas | 0.702 | 5.1 | 2705 | 4.6 | 0 | ICSA Main CR1 Failed |
| Sr | 88 | 1 | No Gas | 0.971 | 0.5 | 37074 | 1.2 | 0 | ICSA Main CR1 Failed |
| Mo | 95 | 1 | No Gas | 2116.497 | 1.8 | 15326118 | 1.1 | 0 | |
| Sn | 118 | 1 | No Gas | 0.293 | 7.0 | 7232 | 2.9 | 0 | ICSA Main CR1 Failed |
| Sb | 121 | 1 | No Gas | 0.116 | 13.3 | 2857 | 8.9 | 0 | ICSA Main CR1 Failed |
| Ba | 137 | 1 | No Gas | 0.555 | 7.4 | 4281 | 5.9 | 0 | ICSA Main CR1 Failed |
| Tl | 205 | 1 | No Gas | 0.004 | 110.1 | 1600 | 10.9 | 0 | ICSA Main CR1 Failed |
| Tl | 203 | 1 | No Gas | 0.001 | 253.8 | 747 | 8.9 | 0 | ICSA Main CR1 Failed |
| Pb | 208 | 1 | No Gas | 0.933 | 3.3 | 60684 | 3.0 | 0 | ICSA Main CR1 Failed |
| U | 238 | 1 | No Gas | 0.011 | 14.3 | 2524 | 4.3 | 0 | ICSA Main CR1 Failed |
| Ca | 43 | 2 | He | 103803.421 | 2.9 | 212502 | 2.4 | 0 | |
| Sb | 121 | 2 | He | 0.113 | 13.8 | 1230 | 10.0 | 0 | ICSA Main CR1 Failed |
| Ti | 47 | 2 | He | 2122.867 | 1.2 | 431993 | 0.7 | 0 | |
| Se | 82 | 1 | No Gas | 0.255 | 30.8 | 340 | 5.1 | 0 | ICSA Main CR1 Failed |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 778955 | 0.92 | 925047 | 84.21 | 70 | 120 | |
| Ge | 72 | 2 | He | 729151 | 0.98 | 783220 | 93.10 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2547556 | 0.62 | 2767984 | 92.04 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3243479 | 0.79 | 3581092 | 90.57 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3416898 | 0.45 | 3720386 | 91.84 | 70 | 120 | |

# Interference Check Solution AB (ICS-AB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICSAB |
| Data File Name | 024ICSB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T11:27:36-05:00 |
| Sample Type | ICSB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 010CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Exp Value | %Rec | %Low | %High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 101.640 | 2.129 | 1182118 | 1.56 | 100 | 101.6 | 180 | 120 | ICSB Main CR1 Failed |
| Be | 9 | 1 | No Gas | 92.485 | 2.369 | 281166 | 1.94 | 100 | 92.5 | 80 | 120 | |
| V | 51 | 2 | He | 107.067 | 2.926 | 592774 | 1.21 | 100 | 107.1 | 80 | 120 | |
| Cr | 52 | 2 | He | 104.174 | 3.259 | 655590 | 1.68 | 100 | 104.2 | 80 | 120 | |
| Fe | 56 | 2 | He | 113273.001 | 2.697 | 676703897 | 1.01 | 100 | 113273.0 | 80 | 120 | ICSB Main CR1 Failed |
| Se | 78 | 2 | He | 109.818 | 4.820 | 10507 | 3.89 | 100 | 109.8 | 80 | 120 | |
| As | 75 | 2 | He | 109.213 | 3.201 | 115081 | 1.59 | 100 | 109.2 | 80 | 120 | |
| Ca | 44 | 2 | He | 108170.327 | 3.555 | 3880374 | 1.87 | 100 | 108170.3 | 80 | 120 | |
| Na | 23 | 2 | He | 114958.092 | 2.917 | 99071625 | 1.36 | 100 | 114958.1 | 80 | 120 | ICSB Main CR1 Failed |
| Mg | 24 | 2 | He | 113645.819 | 3.368 | 61918774 | 1.73 | 100 | 113645.8 | 80 | 120 | ICSB Main CR1 Failed |
| K | 39 | 2 | He | 114324.473 | 3.104 | 78663922 | 1.43 | 100 | 114324.5 | 80 | 120 | |
| Mn | 55 | 2 | He | 106.040 | 2.653 | 520220 | 0.98 | 100 | 106.0 | 80 | 120 | |
| Co | 59 | 2 | He | 102.164 | 2.968 | 989771 | 1.51 | 100 | 102.2 | 80 | 120 | |
| Ni | 60 | 2 | He | 101.829 | 2.303 | 249738 | 0.62 | 100 | 101.8 | 80 | 120 | |
| Cu | 63 | 2 | He | 100.448 | 2.374 | 664762 | 0.72 | 100 | 100.4 | 80 | 120 | |
| Zn | 66 | 2 | He | 106.430 | 2.888 | 135672 | 1.31 | 100 | 106.4 | 80 | 120 | |
| Al | 27 | 2 | He | 104650.542 | 3.636 | 37657397 | 1.96 | 100 | 104650.5 | 80 | 120 | ICSB Main CR1 Failed |
| B | 11 | 1 | No Gas | 503.407 | 1.604 | 839223 | 1.25 | 100 | 503.4 | 80 | 120 | |
| Al | 27 | 1 | No Gas | 97821.425 | 2.927 | 1364617260 | 1.90 | 100 | 97821.4 | 80 | 120 | ICSB Main CR1 Failed |
| Si | 28 | 1 | No Gas | 549.461 | 2.059 | 4094056 | 0.86 | 100 | 549.5 | 80 | 120 | |
| Ag | 107 | 1 | No Gas | 103.691 | 0.915 | 2010967 | 1.53 | 100 | 103.7 | 80 | 120 | |
| Cd | 111 | 1 | No Gas | 105.289 | 0.846 | 405332 | 1.22 | 100 | 105.3 | 80 | 120 | |
| Sr | 88 | 1 | No Gas | 110.468 | 0.170 | 4110108 | 0.67 | 100 | 110.5 | 80 | 120 | |
| Mo | 95 | 1 | No Gas | 2191.583 | 0.775 | 16280225 | 1.37 | 100 | 2191.6 | 80 | 120 | ICSB Main CR1 Failed |
| Sn | 118 | 1 | No Gas | 108.438 | 1.161 | 1398627 | 1.74 | 100 | 108.4 | 80 | 120 | |
| Sb | 121 | 1 | No Gas | 107.754 | 2.196 | 1952320 | 1.25 | 100 | 107.8 | 80 | 120 | |
| Ba | 137 | 1 | No Gas | 106.687 | 0.733 | 728428 | 1.23 | 100 | 106.7 | 80 | 120 | |
| Tl | 205 | 1 | No Gas | 93.563 | 2.294 | 4105141 | 2.21 | 100 | 93.6 | 80 | 120 | |
| Tl | 203 | 1 | No Gas | 92.741 | 2.018 | 1737194 | 1.94 | 100 | 92.7 | 80 | 120 | |
| Pb | 208 | 1 | No Gas | 108.079 | 1.574 | 6775820 | 1.61 | 100 | 108.1 | 80 | 120 | |
| U | 238 | 1 | No Gas | 109.245 | 1.444 | 7587487 | 1.31 | 100 | 109.2 | 80 | 120 | |
| Ca | 43 | 2 | He | 111613.298 | 3.463 | 234511 | 1.81 | 100 | 111613.3 | 80 | 120 | ICSB Main CR1 Failed |
| Sb | 121 | 2 | He | 105.254 | 2.888 | 876690 | 1.22 | 100 | 105.3 | 80 | 120 | |
| Ti | 47 | 2 | He | 2195.098 | 3.729 | 458430 | 2.06 | 100 | 2195.1 | 80 | 120 | ICSB Main CR1 Failed |
| Cu | 63 | 1 | No Gas | 100.975 | 2.610 | 1390634 | 1.71 | 100 | 101.0 | 80 | 120 | |
| Se | 82 | 1 | No Gas | 109.735 | 3.773 | 25815 | 2.98 | 100 | 109.7 | 80 | 120 | |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 839297 | 0.58 | 925047 | 90.73 | 70 | 120 | |
| Ge | 72 | 2 | He | 748579 | 1.71 | 783220 | 95.58 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2612486 | 1.08 | 2767984 | 94.38 | 70 | 120 | |
| In | 115 | 1 | No Gas | 3326952 | 0.61 | 3581092 | 92.90 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 3450677 | 0.43 | 3720386 | 92.75 | 70 | 120 | |

# Calibration Blank Report

**Sample Table**

| | |
|---|---|
| Sample Name | CAL BLK |
| Data File Name | 165CALB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T18:26:19-05:00 |
| Sample Type | CalBlk |
| Level | 1 |
| Dilution | 1 |
| Comment | |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 48562 | 0.00 |
| Be | 9 | 1 | No Gas | 47 | 80.63 |
| V | 51 | 2 | He | 7189 | 0.03 |
| Cr | 52 | 2 | He | 8606 | 0.05 |
| Fe | 56 | 2 | He | 13917 | 0.04 |
| Se | 78 | 2 | He | 107 | 17.61 |
| As | 75 | 2 | He | 338 | 2.84 |
| Ca | 44 | 2 | He | 540 | 1.71 |
| Na | 23 | 2 | He | 86477 | 0.00 |
| Mg | 24 | 2 | He | 1970 | 0.34 |
| K | 39 | 2 | He | 95327 | 0.00 |
| Mn | 55 | 2 | He | 573 | 3.35 |
| Co | 59 | 2 | He | 140 | 0.00 |
| Ni | 60 | 2 | He | 253 | 7.36 |
| Cu | 63 | 2 | He | 667 | 0.69 |
| Zn | 66 | 2 | He | 860 | 0.89 |
| Al | 27 | 2 | He | 1003 | 0.77 |
| B | 11 | 1 | No Gas | 7922 | 0.05 |
| Al | 27 | 1 | No Gas | 35475 | 0.02 |
| Si | 28 | 1 | No Gas | 184259 | 0.00 |
| Ag | 107 | 1 | No Gas | 303 | 10.27 |
| Sr | 88 | 1 | No Gas | 2044 | 0.67 |
| Mo | 95 | 1 | No Gas | 127 | 12.97 |
| Sn | 118 | 1 | No Gas | 7793 | 1.17 |
| Sb | 121 | 1 | No Gas | 613 | 2.51 |
| Ba | 137 | 1 | No Gas | 633 | 3.40 |
| Tl | 205 | 1 | No Gas | 690 | 2.07 |
| Tl | 203 | 1 | No Gas | 307 | 11.47 |
| Pb | 208 | 1 | No Gas | 2323 | 0.25 |
| U | 238 | 1 | No Gas | 1480 | 0.42 |
| Ca | 43 | 2 | He | 47 | 70.14 |
| Sb | 121 | 2 | He | 270 | 1.37 |
| Ti | 47 | 2 | He | 20 | 661.44 |
| Cu | 63 | 1 | No Gas | 1357 | 0.47 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 789601 | 0.08 |

# Calibration Blank Report

| | | | | | |
|---|---|---|---|---|---|
| Ge | 72 | 2 | He | 909952 | 0.99 |
| Ge | 72 | 1 | No Gas | 3202767 | 1.12 |
| In | 115 | 1 | No Gas | 4425209 | 0.76 |
| Bi | 209 | 1 | No Gas | 4898592 | 0.63 |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 2/10/200 |
| Data File Name | 166CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T18:28:52-05:00 |
| Sample Type | CalStd |
| Level | 2 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 5810 | 0.06 |
| V | 51 | 2 | He | 21412 | 0.01 |
| Cr | 52 | 2 | He | 24969 | 0.01 |
| Fe | 56 | 2 | He | 1513402 | 0.00 |
| Se | 78 | 2 | He | 337 | 2.56 |
| As | 75 | 2 | He | 2805 | 0.05 |
| Ca | 44 | 2 | He | 9313 | 0.06 |
| Na | 23 | 2 | He | 310252 | 0.00 |
| Mg | 24 | 2 | He | 139572 | 0.00 |
| K | 39 | 2 | He | 260001 | 0.00 |
| Mn | 55 | 2 | He | 12683 | 0.01 |
| Co | 59 | 2 | He | 25370 | 0.01 |
| Ni | 60 | 2 | He | 6682 | 0.06 |
| Cu | 63 | 2 | He | 17531 | 0.02 |
| Zn | 66 | 2 | He | 4297 | 0.07 |
| Al | 27 | 2 | He | 1867 | 0.88 |
| B | 11 | 1 | No Gas | 25821 | 0.01 |
| Al | 27 | 1 | No Gas | 66346 | 0.00 |
| Si | 28 | 1 | No Gas | 259909 | 0.00 |
| Ag | 107 | 1 | No Gas | 53889 | 0.00 |
| Cd | 111 | 1 | No Gas | 10099 | 0.06 |
| Sr | 88 | 1 | No Gas | 100807 | 0.00 |
| Mo | 95 | 1 | No Gas | 18697 | 0.02 |
| Sn | 118 | 1 | No Gas | 37580 | 0.00 |
| Sb | 121 | 1 | No Gas | 46425 | 0.00 |
| Ba | 137 | 1 | No Gas | 18346 | 0.02 |
| Tl | 205 | 1 | No Gas | 130025 | 0.00 |
| Tl | 203 | 1 | No Gas | 55087 | 0.00 |
| Pb | 208 | 1 | No Gas | 182556 | 0.00 |
| U | 238 | 1 | No Gas | 189251 | 0.00 |
| Ca | 43 | 2 | He | 563 | 1.01 |
| Sb | 121 | 2 | He | 19415 | 0.01 |
| Cu | 63 | 1 | No Gas | 35058 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 775225 | 0.69 | 789601 | 98.18 | 70 | 120 | |
| Ge | 72 | 2 | He | 893988 | 0.82 | 909952 | 98.25 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 3158044 | 0.77 | 3202767 | 98.60 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 4373189 | 0.16 | 4425209 | 98.82 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4865545 | 0.59 | 4898592 | 99.33 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 5/25/500 |
| Data File Name | 167CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T18:31:25-05:00 |
| Sample Type | CalStd |
| Level | 3 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 14579 | 0.01 |
| V | 51 | 2 | He | 42232 | 0.00 |
| Cr | 52 | 2 | He | 49204 | 0.00 |
| Fe | 56 | 2 | He | 3808641 | 0.00 |
| Se | 78 | 2 | He | 651 | 1.63 |
| As | 75 | 2 | He | 6533 | 0.04 |
| Ca | 44 | 2 | He | 22345 | 0.01 |
| Na | 23 | 2 | He | 651518 | 0.00 |
| Mg | 24 | 2 | He | 348426 | 0.00 |
| K | 39 | 2 | He | 508755 | 0.00 |
| Mn | 55 | 2 | He | 31393 | 0.01 |
| Co | 59 | 2 | He | 62676 | 0.00 |
| Ni | 60 | 2 | He | 16907 | 0.01 |
| Cu | 63 | 2 | He | 44994 | 0.01 |
| Zn | 66 | 2 | He | 8873 | 0.08 |
| Al | 27 | 2 | He | 2964 | 0.15 |
| B | 11 | 1 | No Gas | 52174 | 0.00 |
| Al | 27 | 1 | No Gas | 110225 | 0.00 |
| Si | 28 | 1 | No Gas | 381348 | 0.00 |
| Ag | 107 | 1 | No Gas | 131579 | 0.00 |
| Cd | 111 | 1 | No Gas | 25709 | 0.01 |
| Sr | 88 | 1 | No Gas | 246714 | 0.00 |
| Mo | 95 | 1 | No Gas | 47206 | 0.00 |
| Sn | 118 | 1 | No Gas | 87665 | 0.00 |
| Sb | 121 | 1 | No Gas | 115325 | 0.00 |
| Ba | 137 | 1 | No Gas | 45298 | 0.00 |
| Tl | 205 | 1 | No Gas | 321408 | 0.00 |
| Tl | 203 | 1 | No Gas | 134948 | 0.00 |
| Pb | 208 | 1 | No Gas | 452681 | 0.00 |
| U | 238 | 1 | No Gas | 471675 | 0.00 |
| Ca | 43 | 2 | He | 1263 | 0.91 |
| Sb | 121 | 2 | He | 48830 | 0.01 |
| Cu | 63 | 1 | No Gas | 84773 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 773453 | 0.17 | 789601 | 97.95 | 70 | 120 | |
| Ge | 72 | 2 | He | 891524 | 0.41 | 909952 | 97.97 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 3147283 | 0.37 | 3202767 | 98.27 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 4339244 | 0.66 | 4425209 | 98.06 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4821597 | 0.67 | 4898592 | 98.43 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 10/50/100 |
| Data File Name | 168CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T18:33:57-05:00 |
| Sample Type | CalStd |
| Level | 4 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 28275 | 0.01 |
| V | 51 | 2 | He | 77209 | 0.00 |
| Cr | 52 | 2 | He | 88965 | 0.00 |
| Fe | 56 | 2 | He | 7580832 | 0.00 |
| Se | 78 | 2 | He | 1310 | 0.26 |
| As | 75 | 2 | He | 12908 | 0.03 |
| Ca | 44 | 2 | He | 43963 | 0.00 |
| Na | 23 | 2 | He | 1196258 | 0.00 |
| Mg | 24 | 2 | He | 685007 | 0.00 |
| K | 39 | 2 | He | 917141 | 0.00 |
| Mn | 55 | 2 | He | 62190 | 0.00 |
| Co | 59 | 2 | He | 124377 | 0.00 |
| Ni | 60 | 2 | He | 32452 | 0.01 |
| Cu | 63 | 2 | He | 87035 | 0.00 |
| Zn | 66 | 2 | He | 17288 | 0.02 |
| Al | 27 | 2 | He | 5198 | 0.06 |
| B | 11 | 1 | No Gas | 95520 | 0.00 |
| Al | 27 | 1 | No Gas | 185894 | 0.00 |
| Si | 28 | 1 | No Gas | 574378 | 0.00 |
| Ag | 107 | 1 | No Gas | 260214 | 0.00 |
| Cd | 111 | 1 | No Gas | 51092 | 0.00 |
| Sr | 88 | 1 | No Gas | 483170 | 0.00 |
| Mo | 95 | 1 | No Gas | 93392 | 0.00 |
| Sn | 118 | 1 | No Gas | 173686 | 0.00 |
| Sb | 121 | 1 | No Gas | 230102 | 0.00 |
| Ba | 137 | 1 | No Gas | 88836 | 0.01 |
| Tl | 205 | 1 | No Gas | 634396 | 0.00 |
| Tl | 203 | 1 | No Gas | 266009 | 0.00 |
| Pb | 208 | 1 | No Gas | 900364 | 0.00 |
| U | 238 | 1 | No Gas | 938877 | 0.00 |
| Ca | 43 | 2 | He | 2637 | 0.37 |
| Sb | 121 | 2 | He | 96339 | 0.00 |
| Cu | 63 | 1 | No Gas | 165388 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 758349 | 0.71 | 789601 | 96.04 | 70 | 120 | |
| Ge | 72 | 2 | He | 886961 | 0.89 | 909952 | 97.47 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 3105104 | 0.67 | 3202767 | 96.95 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 4303190 | 0.21 | 4425209 | 97.24 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4845240 | 0.33 | 4898592 | 98.91 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 100/500/10K |
| Data File Name | 169CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T18:36:29-05:00 |
| Sample Type | CalStd |
| Level | 5 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 260427 | 0.00 |
| V | 51 | 2 | He | 635979 | 0.00 |
| Cr | 52 | 2 | He | 725015 | 0.00 |
| Fe | 56 | 2 | He | 68980232 | 0.00 |
| Se | 78 | 2 | He | 10451 | 0.04 |
| As | 75 | 2 | He | 115384 | 0.00 |
| Ca | 44 | 2 | He | 392702 | 0.00 |
| Na | 23 | 2 | He | 10219544 | 0.00 |
| Mg | 24 | 2 | He | 6267946 | 0.00 |
| K | 39 | 2 | He | 7619025 | 0.00 |
| Mn | 55 | 2 | He | 555571 | 0.00 |
| Co | 59 | 2 | He | 1142339 | 0.00 |
| Ni | 60 | 2 | He | 290973 | 0.00 |
| Cu | 63 | 2 | He | 784299 | 0.00 |
| Zn | 66 | 2 | He | 147869 | 0.00 |
| Al | 27 | 2 | He | 39416 | 0.01 |
| B | 11 | 1 | No Gas | 814385 | 0.00 |
| Al | 27 | 1 | No Gas | 1423885 | 0.00 |
| Si | 28 | 1 | No Gas | 3648710 | 0.00 |
| Ag | 107 | 1 | No Gas | 2369308 | 0.00 |
| Cd | 111 | 1 | No Gas | 478228 | 0.00 |
| Sr | 88 | 1 | No Gas | 4446349 | 0.00 |
| Mo | 95 | 1 | No Gas | 866437 | 0.00 |
| Sn | 118 | 1 | No Gas | 1606338 | 0.00 |
| Sb | 121 | 1 | No Gas | 2170758 | 0.00 |
| Ba | 137 | 1 | No Gas | 826308 | 0.00 |
| Tl | 205 | 1 | No Gas | 5834332 | 0.00 |
| Tl | 203 | 1 | No Gas | 2475478 | 0.00 |
| Pb | 208 | 1 | No Gas | 8420354 | 0.00 |
| U | 238 | 1 | No Gas | 9336514 | 0.00 |
| Ca | 43 | 2 | He | 22872 | 0.01 |
| Sb | 121 | 2 | He | 911669 | 0.00 |
| Cu | 63 | 1 | No Gas | 1465716 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 702122 | 0.93 | 789601 | 88.92 | 70 | 120 | |
| Ge | 72 | 2 | He | 844685 | 1.27 | 909952 | 92.83 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2923349 | 0.75 | 3202767 | 91.28 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 4085282 | 0.70 | 4425209 | 92.32 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4593413 | 0.59 | 4898592 | 93.77 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 200/1000/20K |
| Data File Name | 170CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T18:39:02-05:00 |
| Sample Type | CalStd |
| Level | 6 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 500113 | 0.00 |
| V | 51 | 2 | He | 1275843 | 0.00 |
| Cr | 52 | 2 | He | 1468567 | 0.00 |
| Fe | 56 | 2 | He | 137644121 | 0.00 |
| Se | 78 | 2 | He | 20652 | 0.01 |
| As | 75 | 2 | He | 230052 | 0.00 |
| Ca | 44 | 2 | He | 784428 | 0.00 |
| Na | 23 | 2 | He | 20275590 | 0.00 |
| Mg | 24 | 2 | He | 12448559 | 0.00 |
| K | 39 | 2 | He | 15147611 | 0.00 |
| Mn | 55 | 2 | He | 1120604 | 0.00 |
| Co | 59 | 2 | He | 2277940 | 0.00 |
| Ni | 60 | 2 | He | 576706 | 0.00 |
| Cu | 63 | 2 | He | 1589430 | 0.00 |
| Zn | 66 | 2 | He | 294330 | 0.00 |
| Al | 27 | 2 | He | 79061 | 0.00 |
| B | 11 | 1 | No Gas | 1601393 | 0.00 |
| Al | 27 | 1 | No Gas | 2738134 | 0.00 |
| Si | 28 | 1 | No Gas | 6921647 | 0.00 |
| Ag | 107 | 1 | No Gas | 4643519 | 0.00 |
| Cd | 111 | 1 | No Gas | 929935 | 0.00 |
| Sr | 88 | 1 | No Gas | 8796152 | 0.00 |
| Mo | 95 | 1 | No Gas | 1753772 | 0.00 |
| Sn | 118 | 1 | No Gas | 3170028 | 0.00 |
| Sb | 121 | 1 | No Gas | 4326347 | 0.00 |
| Ba | 137 | 1 | No Gas | 1660977 | 0.00 |
| Tl | 205 | 1 | No Gas | 11450364 | 0.00 |
| Tl | 203 | 1 | No Gas | 4844500 | 0.00 |
| Pb | 208 | 1 | No Gas | 16660976 | 0.00 |
| U | 238 | 1 | No Gas | 18618821 | 0.00 |
| Ca | 43 | 2 | He | 46197 | 0.01 |
| Sb | 121 | 2 | He | 1885755 | 0.00 |
| Cu | 63 | 1 | No Gas | 2843078 | 0.00 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 682313 | 0.37 | 789601 | 86.41 | 70 | 120 | |
| Ge | 72 | 2 | He | 827580 | 0.36 | 909952 | 90.95 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2838106 | 0.73 | 3202767 | 88.61 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 3968529 | 0.34 | 4425209 | 89.68 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4438007 | 0.53 | 4898592 | 90.60 | 70 | 120 | |

# Initial Calibration Verification (ICV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICCV |
| Data File Name | 172_ICV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062824A.b |
| Acq Date Time | 2024-06-28T18:49:37-05:00 |
| Sample Type | ICV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 165CALB.d |
| Sample QC Pass/Fail | Fail |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | Conc | Conc %RSD | CPS | CPS %RSD | Exp Value | %Rec | %Low | %High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 100.458 | 1.832 | 967519 | 2.02 | 100 | 100.5 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 102.861 | 0.898 | 268157 | 1.18 | 100 | 102.9 | 90 | 110 | |
| V | 51 | 2 | He | 101.037 | 2.052 | 662716 | 2.14 | 100 | 101.0 | 90 | 110 | |
| Cr | 52 | 2 | He | 100.276 | 1.806 | 755843 | 1.92 | 100 | 100.3 | 90 | 110 | |
| Fe | 56 | 2 | He | 9976.103 | 2.190 | 70389884 | 2.36 | 10000 | 99.8 | 90 | 110 | |
| Se | 78 | 2 | He | 101.730 | 0.788 | 10830 | 0.81 | 100 | 101.7 | 90 | 110 | |
| As | 75 | 2 | He | 101.924 | 1.281 | 120323 | 1.36 | 100 | 101.9 | 90 | 110 | |
| Ca | 44 | 2 | He | 10095.782 | 1.616 | 406045 | 1.78 | 10000 | 101.0 | 90 | 110 | |
| Na | 23 | 2 | He | 9973.239 | 1.843 | 10409333 | 1.95 | 10000 | 99.7 | 90 | 110 | |
| Mg | 24 | 2 | He | 10053.926 | 1.781 | 6421804 | 1.87 | 10000 | 100.5 | 90 | 110 | |
| K | 39 | 2 | He | 9993.594 | 1.987 | 7800399 | 2.02 | 10000 | 99.9 | 90 | 110 | |
| Mn | 55 | 2 | He | 101.295 | 2.370 | 580810 | 2.53 | 100 | 101.3 | 90 | 110 | |
| Co | 59 | 2 | He | 102.238 | 2.301 | 1193951 | 2.44 | 100 | 102.2 | 90 | 110 | |
| Ni | 60 | 2 | He | 102.335 | 1.698 | 303022 | 1.85 | 100 | 102.3 | 90 | 110 | |
| Cu | 63 | 2 | He | 99.844 | 0.938 | 811205 | 1.03 | 100 | 99.8 | 90 | 110 | |
| Zn | 66 | 2 | He | 101.037 | 1.392 | 152829 | 1.56 | 100 | 101.0 | 90 | 110 | |
| Al | 27 | 2 | He | 102.565 | 2.542 | 41879 | 2.50 | 100 | 102.6 | 90 | 110 | |
| B | 11 | 1 | No Gas | 495.776 | 1.271 | 816268 | 1.46 | 500 | 99.2 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 101.918 | 1.110 | 1460415 | 1.77 | 100 | 101.9 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 505.080 | 1.699 | 3704579 | 2.30 | 500 | 101.0 | 90 | 110 | |
| Ag | 107 | 1 | No Gas | 102.862 | 2.226 | 2451331 | 1.88 | 100 | 102.9 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 102.564 | 2.787 | 490196 | 2.41 | 100 | 102.6 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 102.142 | 2.585 | 4602744 | 2.21 | 100 | 102.1 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 99.992 | 2.328 | 894202 | 1.95 | 100 | 100.0 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 101.539 | 2.339 | 1652082 | 1.95 | 100 | 101.5 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 100.711 | 1.538 | 2244448 | 2.16 | 100 | 100.7 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 99.353 | 3.098 | 842778 | 2.72 | 100 | 99.4 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 104.028 | 1.869 | 6145335 | 2.97 | 100 | 104.0 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 103.988 | 2.097 | 2600468 | 3.19 | 100 | 104.0 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 101.744 | 1.393 | 8730678 | 2.25 | 100 | 101.7 | 90 | 110 | |
| U | 238 | 1 | No Gas | 101.997 | 1.245 | 9764391 | 2.46 | 100 | 102.0 | 90 | 110 | |
| Ca | 43 | 2 | He | 10106.195 | 1.196 | 23891 | 1.28 | 10000 | 101.1 | 90 | 110 | |
| Sb | 121 | 2 | He | 97.584 | 1.453 | 936604 | 1.53 | 100 | 97.6 | 90 | 110 | |
| Ti | 47 | 2 | He | 103.085 | 2.303 | 24061 | 2.49 | 100 | 103.1 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 103.251 | 1.271 | 1520905 | 1.95 | 100 | 103.3 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 100.530 | 2.027 | 27799 | 2.66 | 100 | 100.5 | 90 | 110 | |
| Zr | 90 | 1 | No Gas | 87.014 | 2.356 | 2435254 | 1.98 | 100 | 87.0 | 90 | 110 | ICV Main CR1 Failed |
| Zr | 90 | 2 | He | 84.315 | 1.995 | 964740 | 1.94 | 100 | 84.3 | 90 | 1100 | ICV Main CR1 Failed |

**QC ISTD Table**

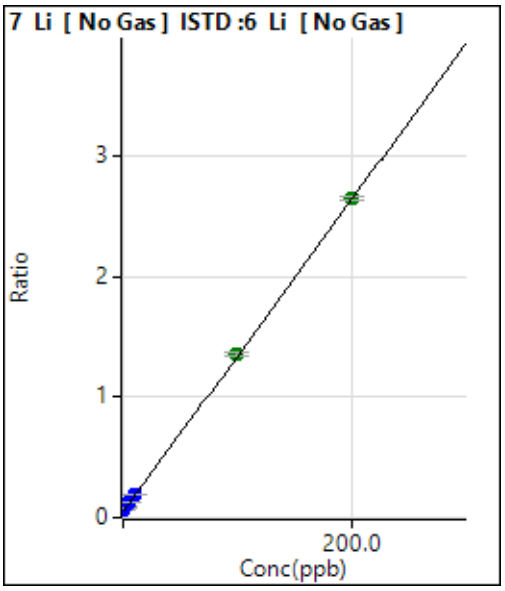
| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 709544 | 0.39 | 789601 | 89.86 | 70 | 120 | |
| Ge | 72 | 2 | He | 851377 | 0.20 | 909952 | 93.56 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 2938798 | 0.68 | 3202767 | 91.76 | 70 | 120 | |
| In | 115 | 1 | No Gas | 4080042 | 0.38 | 4425209 | 92.20 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 4592425 | 1.46 | 4898592 | 93.75 | 70 | 120 | |

Calibration for 172_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062824A.b\
Analysis File: 062824A.batch.bin
DA Date-Time: 6/28/2024 10:08:19 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 165CALB.d | CAL BLK | 6/28/2024 6:26:19 PM |
| 2 | 166CALS.d | 2/10/200 | 6/28/2024 6:28:52 PM |
| 3 | 167CALS.d | 5/25/500 | 6/28/2024 6:31:25 PM |
| 4 | 168CALS.d | 10/50/100 | 6/28/2024 6:33:57 PM |
| 5 | 169CALS.d | 100/500/10K | 6/28/2024 6:36:29 PM |
| 6 | 170CALS.d | 200/1000/20K | 6/28/2024 6:39:02 PM |

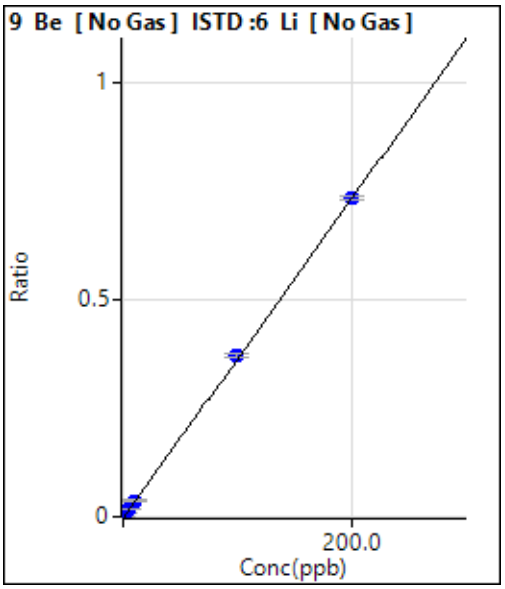
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 48562.36 | 0.0615 | P | 1.1 | |
| 2 | ☐ | 2.000 | 2.046 | 68240.54 | 0.0880 | P | 0.9 | 2.3 |
| 3 | ☐ | 5.000 | 5.201 | 99702.13 | 0.1289 | P | 1.0 | 4.0 |
| 4 | ☐ | 10.000 | 10.292 | 147790.64 | 0.1949 | P | 1.4 | 2.9 |
| 5 | ☐ | 100.000 | 100.357 | 956336.86 | 1.3622 | A | 2.3 | 0.4 |
| 6 | ☐ | 200.000 | 199.802 | 1808944.30 | 2.6511 | A | 1.1 | -0.1 |

y = 0.0130 * x + 0.0615
R = 1.0000
DL = 0.1599 ppb
BEC = 4.745 ppb

Weight: <None>
Min Conc: <None>

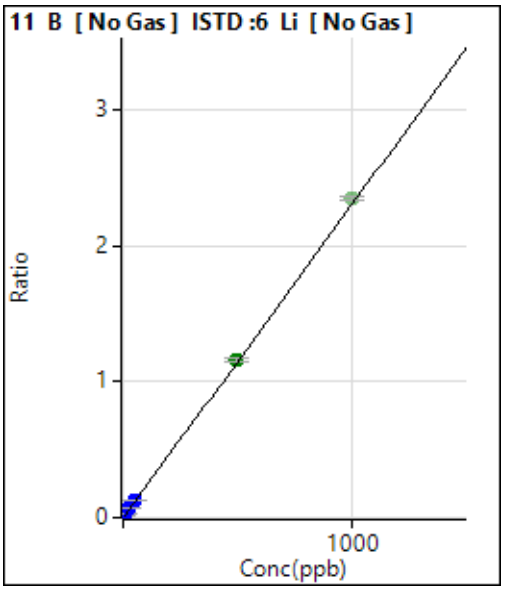



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 46.67 | 0.0001 | P | 37.7 | |
| 2 | ☐ | 2.000 | 2.024 | 5809.56 | 0.0075 | P | 4.2 | 1.2 |
| 3 | ☐ | 5.000 | 5.115 | 14579.18 | 0.0188 | P | 1.9 | 2.3 |
| 4 | ☐ | 10.000 | 10.135 | 28274.79 | 0.0373 | P | 3.3 | 1.3 |
| 5 | ☐ | 100.000 | 100.968 | 260427.17 | 0.3710 | P | 3.1 | 1.0 |
| 6 | ☐ | 200.000 | 199.506 | 500113.42 | 0.7330 | P | 0.8 | -0.2 |

y = 0.0037 * x + 5.9113E-005
R = 1.0000
DL = 0.0182 ppb
BEC = 0.01609 ppb

Weight: <None>
Min Conc: <None>

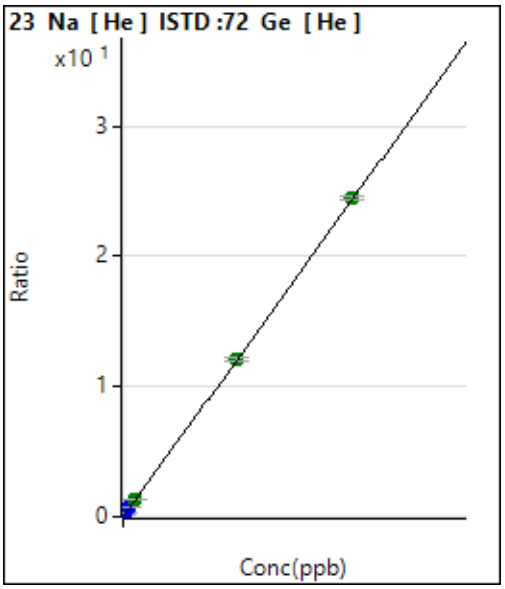
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7922.26 | 0.0100 | P | 3.9 | |
| 2 | ☐ | 10.000 | 10.121 | 25820.80 | 0.0333 | P | 4.0 | 1.2 |
| 3 | ☐ | 25.000 | 24.965 | 52173.58 | 0.0675 | P | 1.9 | -0.1 |
| 4 | ☐ | 50.000 | 50.401 | 95519.95 | 0.1260 | P | 1.0 | 0.8 |
| 5 | ☐ | 500.000 | 499.959 | 814385.20 | 1.1600 | A | 2.2 | 0.0 |
| 6 | ☑ | 1000.000 | | 1601392.89 | 2.3470 | A | 0.6 | |

y = 0.0023 * x + 0.0100
R = 1.0000
DL = 0.5068 ppb
BEC = 4.362 ppb

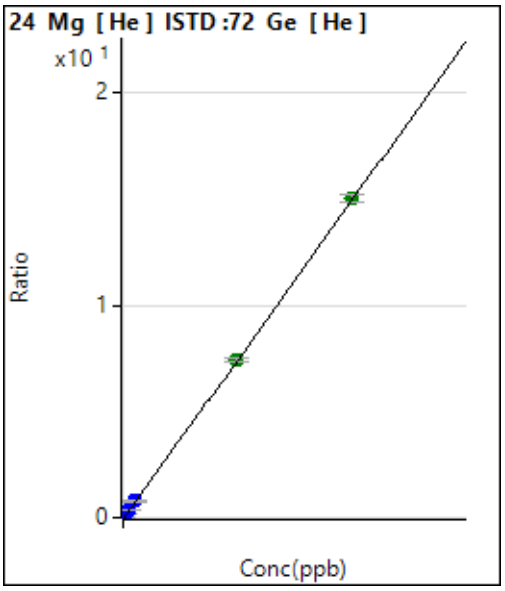
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 86476.89 | 0.0950 | P | 0.9 | |
| 2 | ☐ | 200.000 | 207.191 | 310252.24 | 0.3471 | P | 1.1 | 3.6 |
| 3 | ☐ | 500.000 | 522.648 | 651517.72 | 0.7308 | P | 0.8 | 4.5 |
| 4 | ☐ | 1000.000 | 1030.735 | 1196257.53 | 1.3488 | A | 1.3 | 3.1 |
| 5 | ☐ | 10000.00 | 9869.063 | 10219544.43 | 12.0996 | A | 1.9 | -1.3 |
| 6 | ☐ | 20000.00 | 20063.29 | 20275589.70 | 24.4996 | A | 1.8 | 0.3 |

y = 0.0012 * x + 0.0950
R = 1.0000
DL = 2.078 ppb
BEC = 78.13 ppb

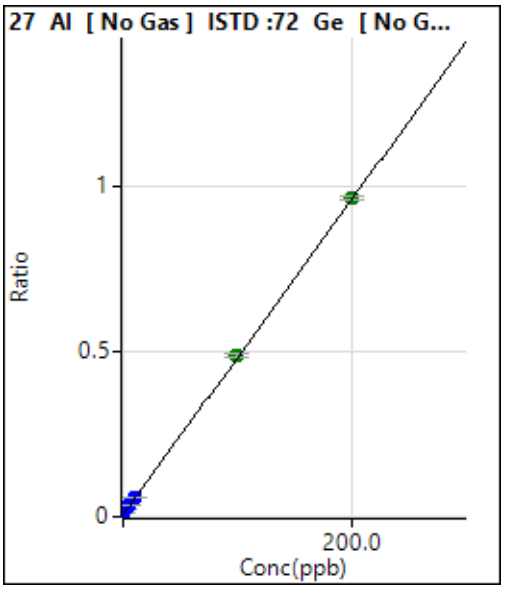
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1970.17 | 0.0022 | P | 7.1 | |
| 2 | ☐ | 200.000 | 205.278 | 139572.12 | 0.1561 | P | 1.7 | 2.6 |
| 3 | ☐ | 500.000 | 518.172 | 348425.87 | 0.3908 | P | 2.3 | 3.6 |
| 4 | ☐ | 1000.000 | 1026.864 | 685006.73 | 0.7723 | P | 1.2 | 2.7 |
| 5 | ☐ | 10000.00 | 9891.425 | 6267945.53 | 7.4209 | A | 2.2 | -1.1 |
| 6 | ☐ | 20000.00 | 20052.43 | 12448558.56 | 15.0418 | A | 1.9 | 0.3 |

y = 7.5002E-004 * x + 0.0022
R = 1.0000
DL = 0.6173 ppb
BEC = 2.888 ppb

Weight: <None>
Min Conc: <None>

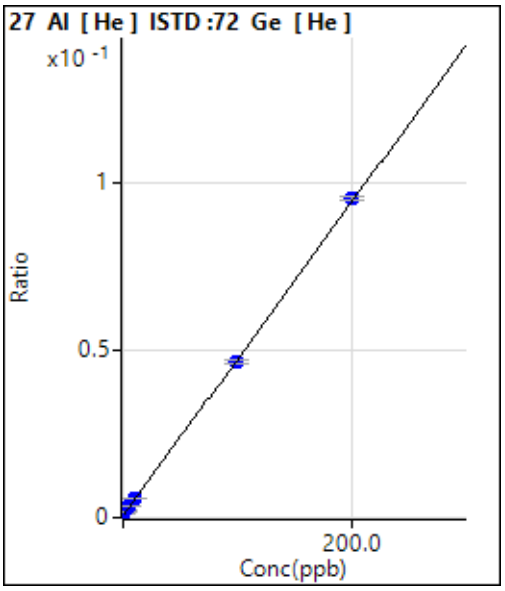



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 35474.87 | 0.0111 | P | 6.7 | |
| 2 | ☐ | 2.000 | 2.083 | 66346.00 | 0.0210 | P | 2.1 | 4.2 |
| 3 | ☐ | 5.000 | 5.023 | 110225.07 | 0.0350 | P | 0.7 | 0.5 |
| 4 | ☐ | 10.000 | 10.235 | 185893.60 | 0.0599 | P | 1.3 | 2.4 |
| 5 | ☐ | 100.000 | 99.862 | 1423884.88 | 0.4871 | A | 2.3 | -0.1 |
| 6 | ☐ | 200.000 | 200.056 | 2738133.71 | 0.9647 | A | 0.7 | 0.0 |

y = 0.0048 * x + 0.0111
R = 1.0000
DL = 0.4677 ppb
BEC = 2.324 ppb

Weight: <None>
Min Conc: <None>

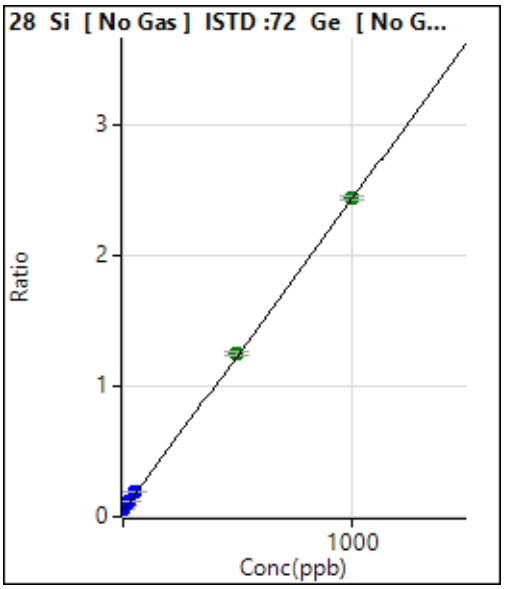
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1003.39 | 0.0011 | P | 8.1 | |
| 2 | ☐ | 2.000 | 2.099 | 1866.83 | 0.0021 | P | 15.7 | 4.9 |
| 3 | ☐ | 5.000 | 4.738 | 2963.69 | 0.0033 | P | 4.3 | -5.2 |
| 4 | ☐ | 10.000 | 10.147 | 5197.72 | 0.0059 | P | 3.1 | 1.5 |
| 5 | ☐ | 100.000 | 97.180 | 39415.58 | 0.0467 | P | 3.2 | -2.8 |
| 6 | ☐ | 200.000 | 201.408 | 79061.32 | 0.0955 | P | 0.9 | 0.7 |

y = 4.6885E-004 * x + 0.0011
R = 0.9999
DL = 0.5721 ppb
BEC = 2.352 ppb

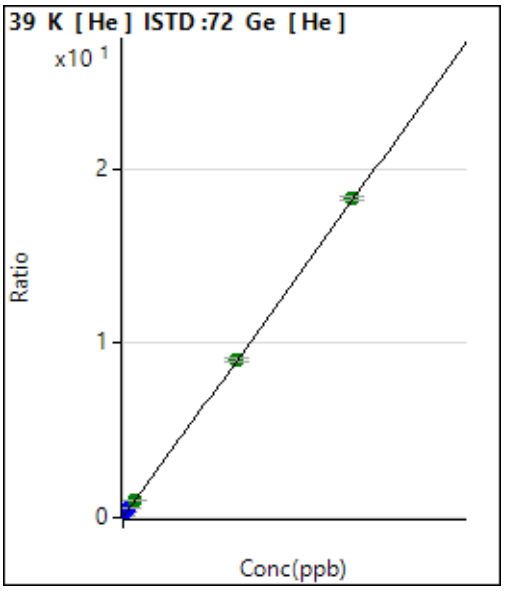
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 184259.15 | 0.0575 | P | 1.7 | |
| 2 | ☐ | 10.000 | 10.400 | 259909.01 | 0.0823 | P | 1.6 | 4.0 |
| 3 | ☐ | 25.000 | 26.716 | 381347.95 | 0.1212 | P | 0.3 | 6.9 |
| 4 | ☐ | 50.000 | 53.510 | 574378.35 | 0.1850 | P | 0.7 | 7.0 |
| 5 | ☐ | 500.000 | 499.927 | 3648709.84 | 1.2482 | A | 1.9 | 0.0 |
| 6 | ☐ | 1000.000 | 999.814 | 6921646.57 | 2.4388 | A | 0.6 | 0.0 |

y = 0.0024 * x + 0.0575
R = 1.0000
DL = 1.249 ppb
BEC = 24.16 ppb

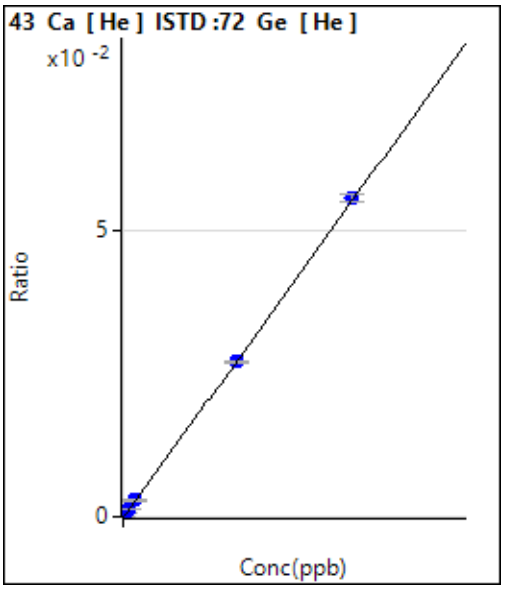
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 95326.84 | 0.1048 | P | 0.9 | |
| 2 | ☐ | 200.000 | 205.310 | 260000.73 | 0.2908 | P | 0.6 | 2.7 |
| 3 | ☐ | 500.000 | 514.051 | 508755.27 | 0.5707 | P | 1.0 | 2.8 |
| 4 | ☐ | 1000.000 | 1025.324 | 917141.05 | 1.0340 | A | 0.9 | 2.5 |
| 5 | ☐ | 10000.00 | 9837.255 | 7619024.88 | 9.0204 | A | 2.3 | -1.6 |
| 6 | ☐ | 20000.00 | 20079.70 | 15147611.02 | 18.3032 | A | 1.1 | 0.4 |

y = 9.0631E-004 * x + 0.1048
R = 1.0000
DL = 3.057 ppb
BEC = 115.6 ppb

Weight: <None>
Min Conc: <None>

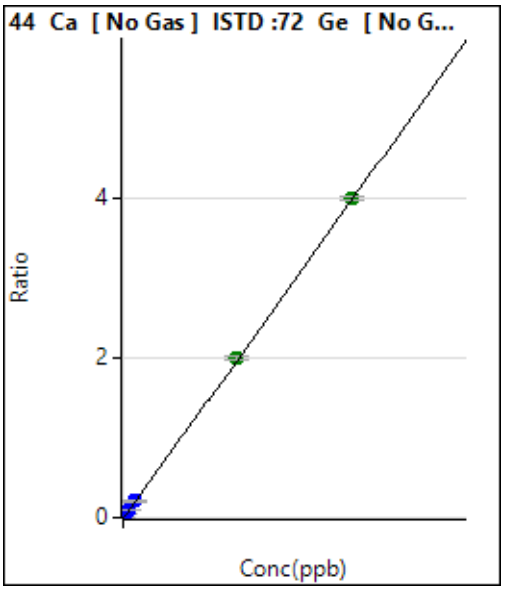



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 46.67 | 0.0001 | P | 32.0 | |
| 2 | ☐ | 200.000 | 208.883 | 563.35 | 0.0006 | P | 5.6 | 4.4 |
| 3 | ☐ | 500.000 | 493.005 | 1263.41 | 0.0014 | P | 11.9 | -1.4 |
| 4 | ☐ | 1000.000 | 1054.272 | 2636.96 | 0.0030 | P | 9.8 | 5.4 |
| 5 | ☐ | 10000.00 | 9749.863 | 22872.45 | 0.0271 | P | 2.0 | -2.5 |
| 6 | ☐ | 20000.00 | 20122.44 | 46196.91 | 0.0558 | P | 2.3 | 0.6 |

y = 2.7716E-006 * x + 5.1206E-005
R = 0.9999
DL = 17.75 ppb
BEC = 18.48 ppb

Weight: <None>
Min Conc: <None>

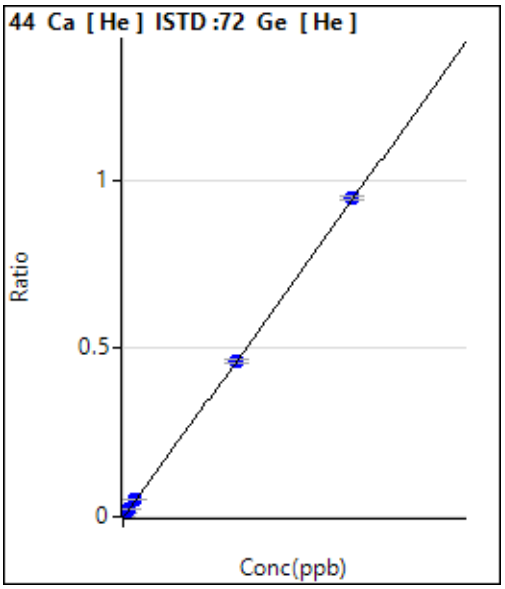
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 14494.46 | 0.0045 | P | 4.3 | |
| 2 | ☐ | 200.000 | 200.337 | 140270.25 | 0.0444 | P | 2.4 | 0.2 |
| 3 | ☐ | 500.000 | 507.777 | 332481.09 | 0.1056 | P | 0.6 | 1.6 |
| 4 | ☐ | 1000.000 | 1006.655 | 636451.71 | 0.2050 | P | 2.2 | 0.7 |
| 5 | ☐ | 10000.00 | 9964.434 | 5813409.08 | 1.9888 | A | 2.3 | -0.4 |
| 6 | ☐ | 20000.00 | 20017.25 | 11326121.50 | 3.9906 | A | 0.8 | 0.1 |

y = 1.9913E-004 * x + 0.0045
R = 1.0000
DL = 2.901 ppb
BEC = 22.73 ppb

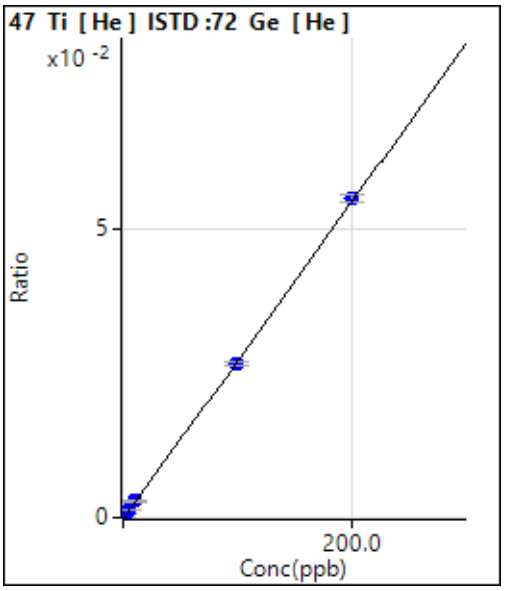
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 540.02 | 0.0006 | P | 8.4 | |
| 2 | ☐ | 200.000 | 208.198 | 9313.30 | 0.0104 | P | 4.7 | 4.1 |
| 3 | ☐ | 500.000 | 518.641 | 22344.87 | 0.0251 | P | 1.0 | 3.7 |
| 4 | ☐ | 1000.000 | 1037.980 | 43962.90 | 0.0496 | P | 1.1 | 3.8 |
| 5 | ☐ | 10000.00 | 9841.519 | 392702.03 | 0.4649 | P | 2.5 | -1.6 |
| 6 | ☐ | 20000.00 | 20076.79 | 784428.27 | 0.9478 | P | 1.6 | 0.4 |

y = 4.7181E-005 * x + 5.9318E-004
R = 1.0000
DL = 3.165 ppb
BEC = 12.57 ppb

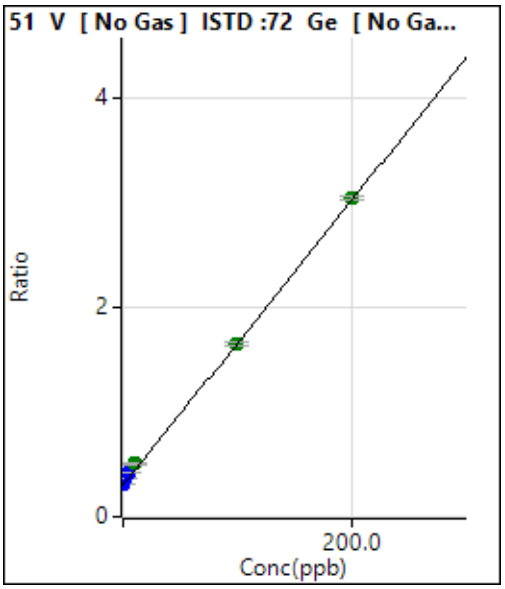
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 20.00 | 0.0000 | P | 131.8 | |
| 2 | ☐ | 2.000 | 2.028 | 516.69 | 0.0006 | P | 22.3 | 1.4 |
| 3 | ☐ | 5.000 | 5.244 | 1300.08 | 0.0015 | P | 3.2 | 4.9 |
| 4 | ☐ | 10.000 | 10.510 | 2573.61 | 0.0029 | P | 5.5 | 5.1 |
| 5 | ☐ | 100.000 | 97.093 | 22481.76 | 0.0266 | P | 1.9 | -2.9 |
| 6 | ☐ | 200.000 | 201.422 | 45681.99 | 0.0552 | P | 2.2 | 0.7 |

y = 2.7394E-004 * x + 2.1792E-005
R = 0.9998
DL = 0.3144 ppb
BEC = 0.07955 ppb

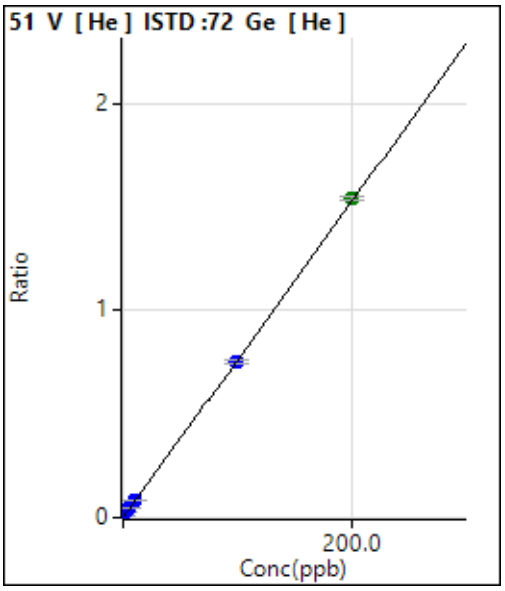
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1018079.73 | 0.3179 | P | 1.4 | |
| 2 | ☐ | 2.000 | 3.778 | 1166138.53 | 0.3693 | P | 2.1 | 88.9 |
| 3 | ☐ | 5.000 | 7.773 | 1333491.52 | 0.4237 | P | 0.4 | 55.5 |
| 4 | ☐ | 10.000 | 13.855 | 1572670.43 | 0.5065 | A | 0.7 | 38.5 |
| 5 | ☐ | 100.000 | 98.242 | 4838831.74 | 1.6554 | A | 2.6 | -1.8 |
| 6 | ☐ | 200.000 | 200.599 | 8653737.82 | 3.0489 | A | 1.3 | 0.3 |

y = 0.0136 * x + 0.3179
R = 0.9998
DL = 0.9588 ppb
BEC = 23.35 ppb

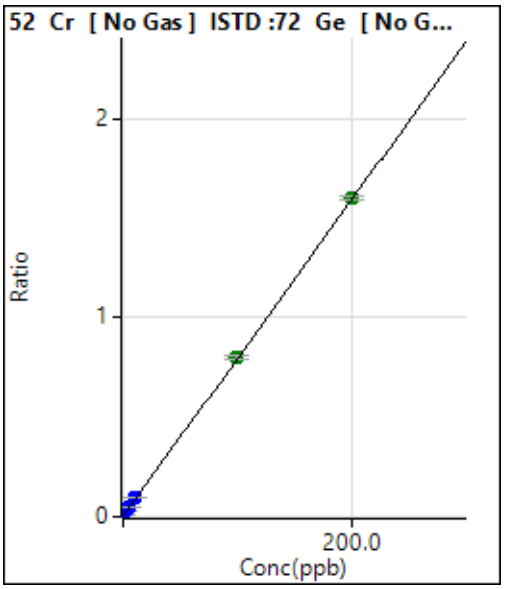
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7188.57 | 0.0079 | P | 3.0 | |
| 2 | ☐ | 2.000 | 2.105 | 21412.09 | 0.0240 | P | 1.9 | 5.2 |
| 3 | ☐ | 5.000 | 5.176 | 42231.83 | 0.0474 | P | 1.2 | 3.5 |
| 4 | ☐ | 10.000 | 10.380 | 77209.09 | 0.0871 | P | 1.9 | 3.8 |
| 5 | ☐ | 100.000 | 97.703 | 635979.16 | 0.7530 | P | 1.6 | -2.3 |
| 6 | ☐ | 200.000 | 201.124 | 1275843.00 | 1.5416 | A | 1.3 | 0.6 |

y = 0.0076 * x + 0.0079
R = 0.9999
DL = 0.09368 ppb
BEC = 1.036 ppb

Weight: <None>
Min Conc: <None>

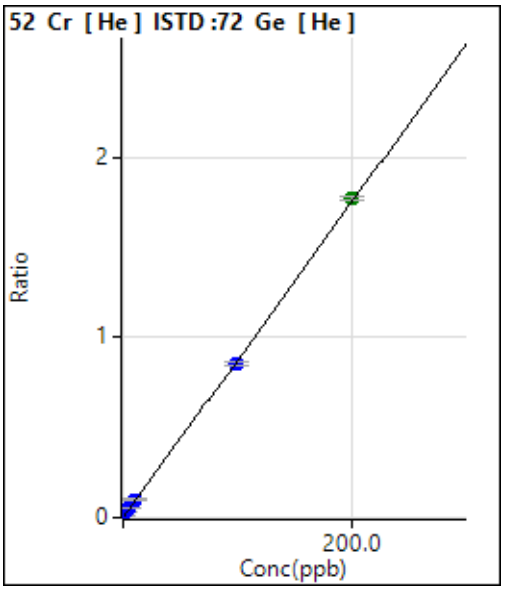



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 33200.11 | 0.0104 | P | 2.7 | |
| 2 | ☐ | 2.000 | 2.106 | 85613.60 | 0.0271 | P | 1.9 | 5.3 |
| 3 | ☐ | 5.000 | 5.218 | 163205.14 | 0.0519 | P | 0.8 | 4.4 |
| 4 | ☐ | 10.000 | 10.411 | 289233.68 | 0.0931 | P | 0.8 | 4.1 |
| 5 | ☐ | 100.000 | 99.596 | 2345265.69 | 0.8023 | A | 2.3 | -0.4 |
| 6 | ☐ | 200.000 | 200.175 | 4547211.81 | 1.6021 | A | 1.1 | 0.1 |

y = 0.0080 * x + 0.0104
R = 1.0000
DL = 0.107 ppb
BEC = 1.303 ppb

Weight: <None>
Min Conc: <None>

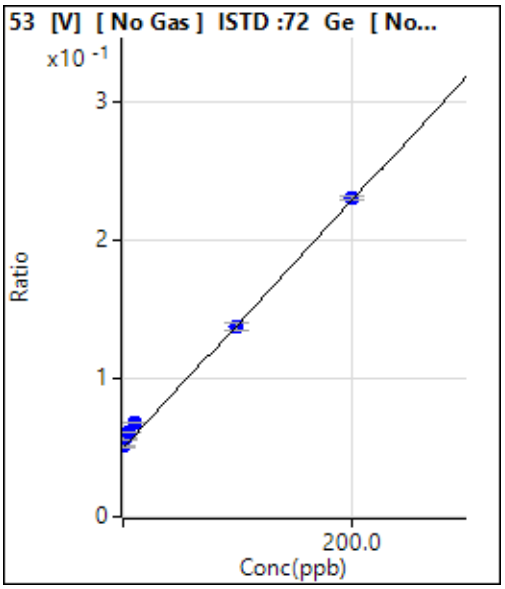
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 8606.19 | 0.0095 | P | 5.5 | |
| 2 | ☐ | 2.000 | 2.108 | 24969.48 | 0.0279 | P | 0.8 | 5.4 |
| 3 | ☐ | 5.000 | 5.221 | 49204.36 | 0.0552 | P | 1.2 | 4.4 |
| 4 | ☐ | 10.000 | 10.373 | 88964.69 | 0.1003 | P | 2.6 | 3.7 |
| 5 | ☐ | 100.000 | 96.923 | 725015.46 | 0.8584 | P | 2.3 | -3.1 |
| 6 | ☐ | 200.000 | 201.513 | 1468567.27 | 1.7745 | A | 1.2 | 0.8 |

y = 0.0088 * x + 0.0095
R = 0.9998
DL = 0.179 ppb
BEC = 1.08 ppb

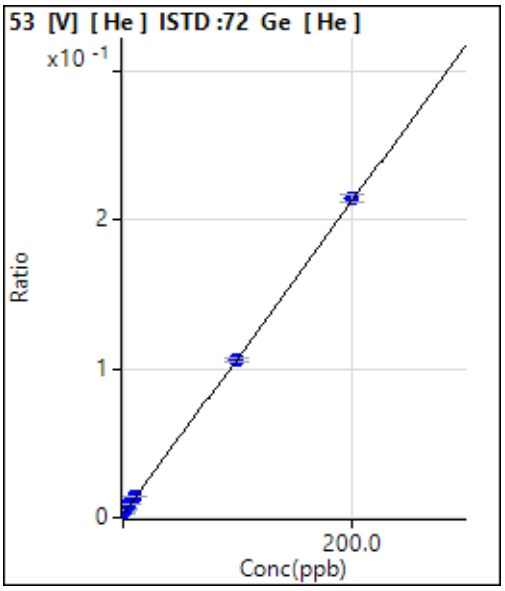
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 163672.05 | 0.0511 | P | 1.4 | |
| 2 | ☐ | 2.000 | 6.431 | 179535.20 | 0.0569 | P | 2.4 | 221.6 |
| 3 | ☐ | 5.000 | 11.260 | 192547.54 | 0.0612 | P | 0.9 | 125.2 |
| 4 | ☐ | 10.000 | 18.837 | 211016.24 | 0.0680 | P | 1.3 | 88.4 |
| 5 | ☐ | 100.000 | 96.639 | 402172.55 | 0.1376 | P | 3.5 | -3.4 |
| 6 | ☐ | 200.000 | 201.038 | 655717.18 | 0.2310 | P | 1.3 | 0.5 |

y = 8.9498E-004 * x + 0.0511
R = 0.9988
DL = 2.474 ppb
BEC = 57.1 ppb

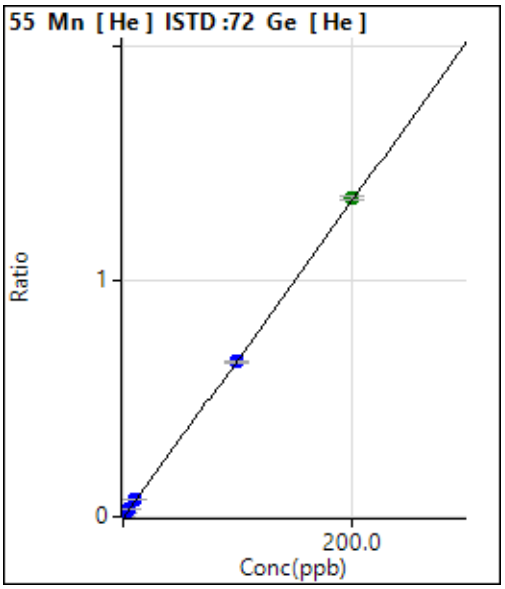
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2957.05 | 0.0032 | P | 3.6 | |
| 2 | ☐ | 2.000 | 2.381 | 5137.70 | 0.0057 | P | 3.5 | 19.1 |
| 3 | ☐ | 5.000 | 5.644 | 8175.86 | 0.0092 | P | 2.1 | 12.9 |
| 4 | ☐ | 10.000 | 10.433 | 12589.26 | 0.0142 | P | 2.2 | 4.3 |
| 5 | ☐ | 100.000 | 97.703 | 89316.86 | 0.1057 | P | 2.0 | -2.3 |
| 6 | ☐ | 200.000 | 201.107 | 177284.23 | 0.2142 | P | 2.1 | 0.6 |

y = 0.0010 * x + 0.0032
R = 0.9999
DL = 0.3304 ppb
BEC = 3.098 ppb

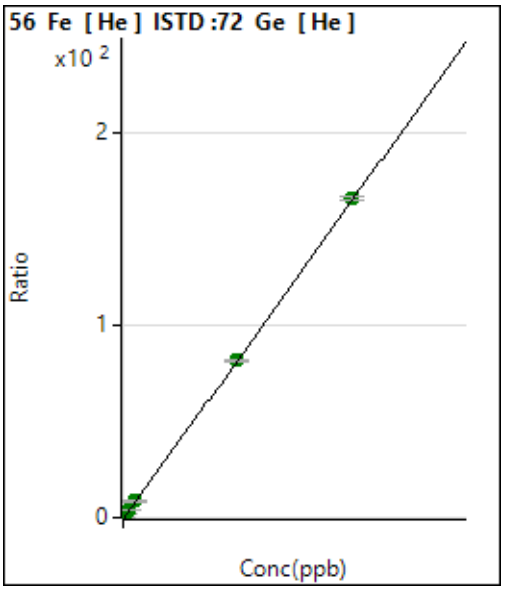
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 573.36 | 0.0006 | P | 19.3 | |
| 2 | ☐ | 2.000 | 2.015 | 12682.70 | 0.0142 | P | 2.3 | 0.8 |
| 3 | ☐ | 5.000 | 5.140 | 31392.63 | 0.0352 | P | 3.3 | 2.8 |
| 4 | ☐ | 10.000 | 10.327 | 62190.07 | 0.0701 | P | 0.7 | 3.3 |
| 5 | ☐ | 100.000 | 97.662 | 555570.75 | 0.6577 | P | 1.2 | -2.3 |
| 6 | ☐ | 200.000 | 201.149 | 1120604.20 | 1.3540 | A | 1.2 | 0.6 |

y = 0.0067 * x + 6.3008E-004
R = 0.9999
DL = 0.05416 ppb
BEC = 0.09364 ppb

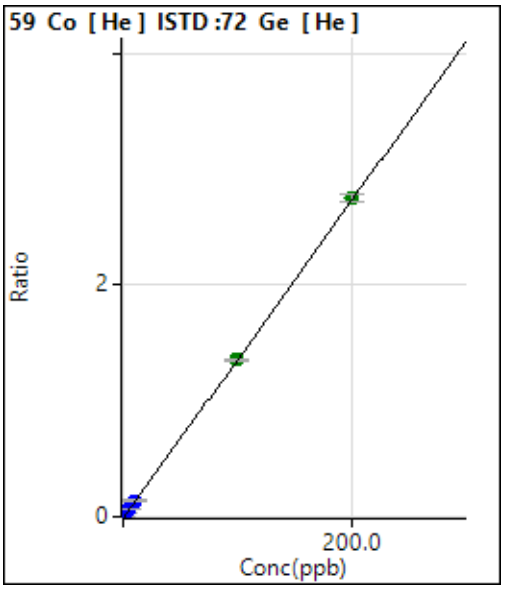
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 13917.24 | 0.0153 | P | 6.6 | |
| 2 | ☐ | 200.000 | 202.456 | 1513401.96 | 1.6928 | A | 1.4 | 1.2 |
| 3 | ☐ | 500.000 | 513.734 | 3808640.57 | 4.2720 | A | 2.1 | 2.7 |
| 4 | ☐ | 1000.000 | 1029.717 | 7580831.97 | 8.5474 | A | 1.7 | 3.0 |
| 5 | ☐ | 10000.00 | 9854.683 | 68980232.30 | 81.6696 | A | 1.8 | -1.5 |
| 6 | ☐ | 20000.00 | 20070.80 | 137644121.2 | 166.318 | A | 1.1 | 0.4 |

y = 0.0083 * x + 0.0153
R = 1.0000
DL = 0.3674 ppb
BEC = 1.846 ppb

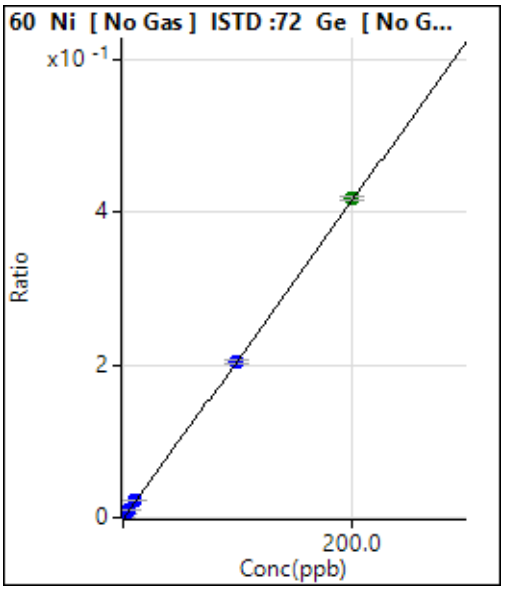
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 140.00 | 0.0002 | P | 1.0 | |
| 2 | ☐ | 2.000 | 2.058 | 25370.40 | 0.0284 | P | 2.7 | 2.9 |
| 3 | ☐ | 5.000 | 5.115 | 62675.71 | 0.0703 | P | 2.6 | 2.3 |
| 4 | ☐ | 10.000 | 10.214 | 124376.65 | 0.1402 | P | 1.2 | 2.1 |
| 5 | ☐ | 100.000 | 98.604 | 1142339.23 | 1.3525 | A | 1.9 | -1.4 |
| 6 | ☐ | 200.000 | 200.684 | 2277939.65 | 2.7525 | A | 1.8 | 0.3 |

y = 0.0137 * x + 1.5386E-004
R = 1.0000
DL = 0.000332 ppb
BEC = 0.01122 ppb

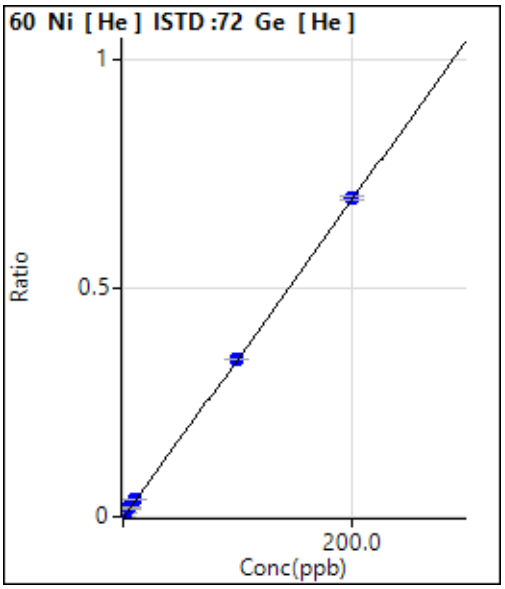
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 716.70 | 0.0002 | P | 18.9 | |
| 2 | ☐ | 2.000 | 2.082 | 14371.02 | 0.0046 | P | 2.0 | 4.1 |
| 3 | ☐ | 5.000 | 5.200 | 34720.64 | 0.0110 | P | 1.4 | 4.0 |
| 4 | ☐ | 10.000 | 10.342 | 67438.31 | 0.0217 | P | 1.3 | 3.4 |
| 5 | ☐ | 100.000 | 98.240 | 597502.93 | 0.2044 | P | 2.5 | -1.8 |
| 6 | ☐ | 200.000 | 200.857 | 1185512.66 | 0.4177 | A | 1.5 | 0.4 |

y = 0.0021 * x + 2.2409E-004
R = 0.9999
DL = 0.06123 ppb
BEC = 0.1078 ppb

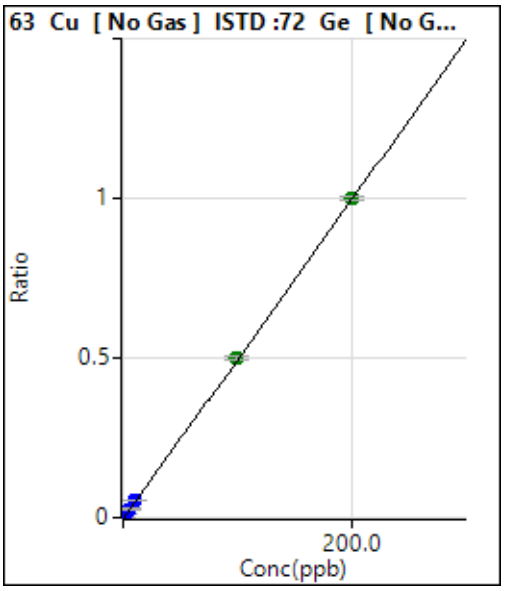
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 253.34 | 0.0003 | P | 18.5 | |
| 2 | ☐ | 2.000 | 2.070 | 6681.75 | 0.0075 | P | 3.3 | 3.5 |
| 3 | ☐ | 5.000 | 5.377 | 16907.25 | 0.0190 | P | 2.5 | 7.5 |
| 4 | ☐ | 10.000 | 10.447 | 32451.88 | 0.0366 | P | 1.2 | 4.5 |
| 5 | ☐ | 100.000 | 99.049 | 290973.23 | 0.3445 | P | 0.9 | -1.0 |
| 6 | ☐ | 200.000 | 200.443 | 576705.58 | 0.6969 | P | 1.5 | 0.2 |

y = 0.0035 * x + 2.7833E-004
R = 1.0000
DL = 0.04443 ppb
BEC = 0.08009 ppb

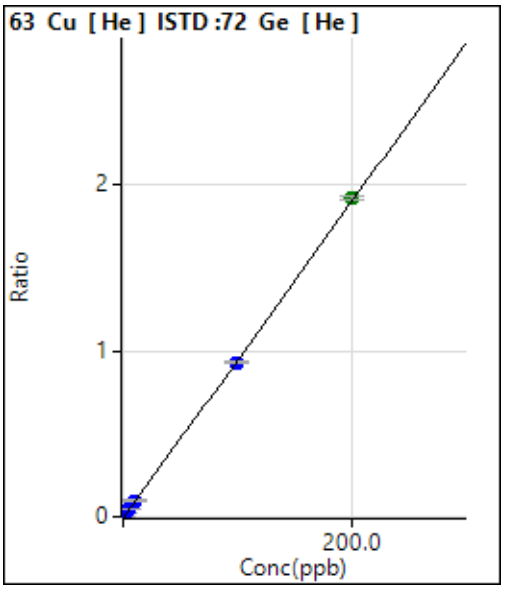
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1356.76 | 0.0004 | P | 5.2 | |
| 2 | ☐ | 2.000 | 2.132 | 35058.40 | 0.0111 | P | 1.4 | 6.6 |
| 3 | ☐ | 5.000 | 5.294 | 84773.26 | 0.0269 | P | 1.8 | 5.9 |
| 4 | ☐ | 10.000 | 10.551 | 165387.54 | 0.0533 | P | 1.5 | 5.5 |
| 5 | ☐ | 100.000 | 100.041 | 1465716.18 | 0.5014 | A | 2.4 | 0.0 |
| 6 | ☐ | 200.000 | 199.943 | 2843077.67 | 1.0017 | A | 0.7 | 0.0 |

y = 0.0050 * x + 4.2345E-004
R = 1.0000
DL = 0.01324 ppb
BEC = 0.08456 ppb

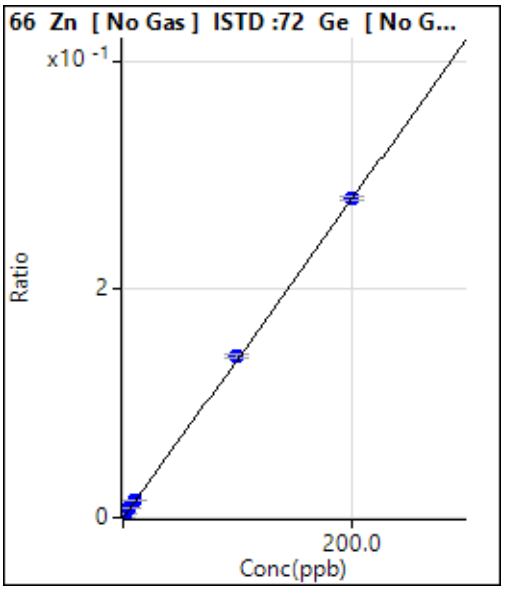
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 666.70 | 0.0007 | P | 3.7 | |
| 2 | ☐ | 2.000 | 1.979 | 17531.45 | 0.0196 | P | 2.9 | -1.0 |
| 3 | ☐ | 5.000 | 5.215 | 44993.69 | 0.0505 | P | 2.5 | 4.3 |
| 4 | ☐ | 10.000 | 10.215 | 87034.76 | 0.0981 | P | 1.4 | 2.1 |
| 5 | ☐ | 100.000 | 97.300 | 784298.66 | 0.9285 | P | 1.8 | -2.7 |
| 6 | ☐ | 200.000 | 201.334 | 1589430.23 | 1.9206 | A | 1.6 | 0.7 |

y = 0.0095 * x + 7.3251E-004
R = 0.9999
DL = 0.008422 ppb
BEC = 0.07682 ppb

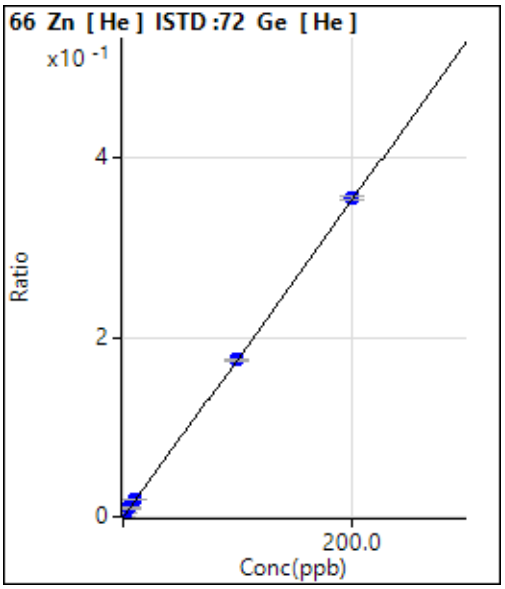
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2570.30 | 0.0008 | P | 8.7 | |
| 2 | ☐ | 2.000 | 2.044 | 11548.38 | 0.0037 | P | 3.8 | 2.2 |
| 3 | ☐ | 5.000 | 5.100 | 24939.64 | 0.0079 | P | 2.7 | 2.0 |
| 4 | ☐ | 10.000 | 10.247 | 46930.36 | 0.0151 | P | 1.7 | 2.5 |
| 5 | ☐ | 100.000 | 100.603 | 413049.12 | 0.1413 | P | 2.2 | 0.6 |
| 6 | ☐ | 200.000 | 199.683 | 793766.68 | 0.2797 | P | 0.7 | -0.2 |

y = 0.0014 * x + 8.0210E-004
R = 1.0000
DL = 0.1494 ppb
BEC = 0.5743 ppb

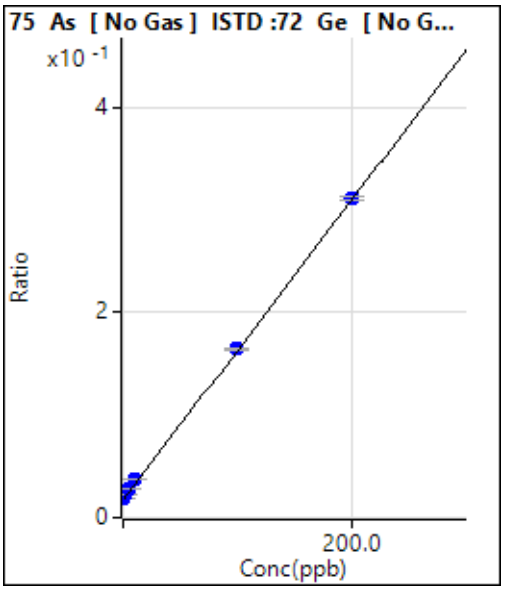
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 860.04 | 0.0009 | P | 6.9 | |
| 2 | ☐ | 2.000 | 2.186 | 4297.42 | 0.0048 | P | 3.8 | 9.3 |
| 3 | ☐ | 5.000 | 5.096 | 8873.06 | 0.0100 | P | 7.0 | 1.9 |
| 4 | ☐ | 10.000 | 10.494 | 17287.87 | 0.0195 | P | 3.0 | 4.9 |
| 5 | ☐ | 100.000 | 98.530 | 147869.38 | 0.1751 | P | 1.0 | -1.5 |
| 6 | ☐ | 200.000 | 200.706 | 294330.44 | 0.3556 | P | 0.7 | 0.4 |

y = 0.0018 * x + 9.4483E-004
R = 1.0000
DL = 0.1099 ppb
BEC = 0.5346 ppb

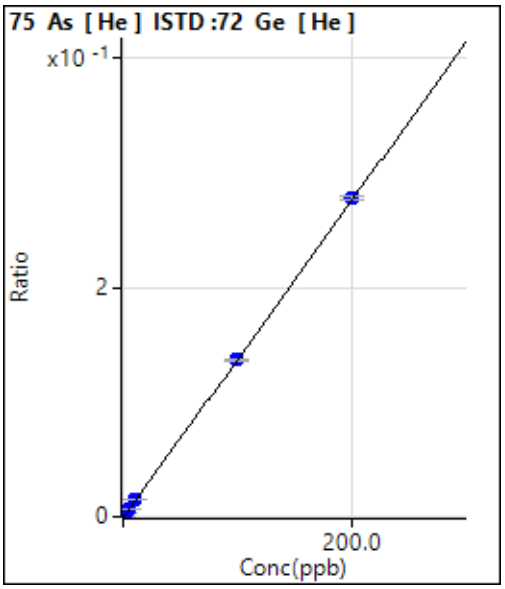
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 60708.39 | 0.0190 | P | 2.6 | |
| 2 | ☐ | 2.000 | 2.598 | 71828.87 | 0.0227 | P | 0.6 | 29.9 |
| 3 | ☐ | 5.000 | 6.410 | 89100.17 | 0.0283 | P | 2.8 | 28.2 |
| 4 | ☐ | 10.000 | 12.372 | 114911.74 | 0.0370 | P | 1.6 | 23.7 |
| 5 | ☐ | 100.000 | 99.405 | 479468.57 | 0.1640 | P | 1.3 | -0.6 |
| 6 | ☐ | 200.000 | 200.138 | 882747.18 | 0.3110 | P | 0.6 | 0.1 |

y = 0.0015 * x + 0.0190
R = 0.9999
DL = 1.024 ppb
BEC = 12.99 ppb

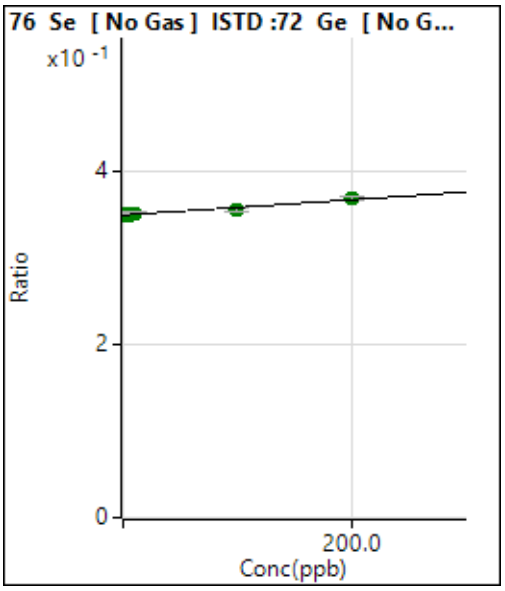
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 337.79 | 0.0004 | P | 8.6 | |
| 2 | ☐ | 2.000 | 2.000 | 2804.75 | 0.0031 | P | 1.0 | 0.0 |
| 3 | ☐ | 5.000 | 5.030 | 6532.70 | 0.0073 | P | 2.3 | 0.6 |
| 4 | ☐ | 10.000 | 10.255 | 12908.38 | 0.0146 | P | 3.4 | 2.6 |
| 5 | ☐ | 100.000 | 98.509 | 115384.20 | 0.1366 | P | 1.1 | -1.5 |
| 6 | ☐ | 200.000 | 200.732 | 230052.21 | 0.2780 | P | 1.8 | 0.4 |

y = 0.0014 * x + 3.7101E-004
R = 1.0000
DL = 0.06928 ppb
BEC = 0.2683 ppb

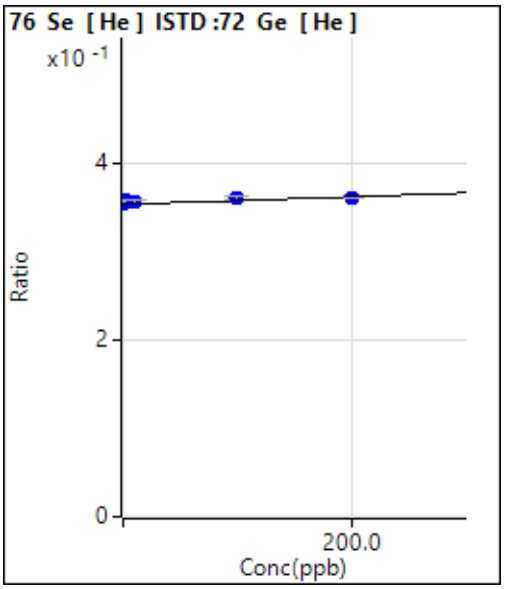
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1118509.59 | 0.3493 | A | 1.4 | |
| 2 | ☐ | 2.000 | 12.133 | 1106346.75 | 0.3503 | A | 0.8 | 506.6 |
| 3 | ☐ | 5.000 | 0.824 | 1099450.53 | 0.3493 | A | 0.7 | -83.5 |
| 4 | ☐ | 10.000 | 24.917 | 1091361.00 | 0.3515 | A | 0.3 | 149.2 |
| 5 | ☐ | 100.000 | 64.453 | 1037787.59 | 0.3550 | A | 0.8 | -35.5 |
| 6 | ☐ | 200.000 | 217.030 | 1046044.54 | 0.3686 | A | 1.1 | 8.5 |

y = 8.9069E-005 * x + 0.3493
R = 0.9726
DL = 167.3 ppb
BEC = 3921 ppb

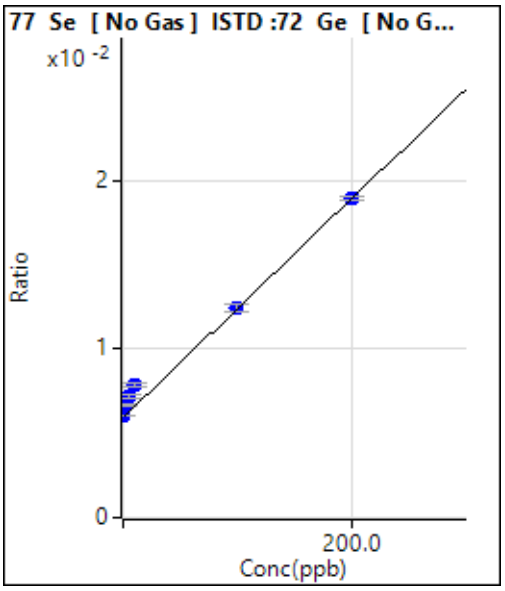
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 322418.73 | 0.3543 | P | 0.5 | |
| 2 | ☐ | 2.000 | 139.317 | 322219.10 | 0.3604 | P | 0.9 | 6865.9 |
| 3 | ☐ | 5.000 | 43.896 | 317604.81 | 0.3563 | P | 0.9 | 777.9 |
| 4 | ☐ | 10.000 | 68.077 | 316915.15 | 0.3573 | P | 0.9 | 580.8 |
| 5 | ☐ | 100.000 | 166.546 | 305469.74 | 0.3616 | P | 0.7 | 66.5 |
| 6 | ☐ | 200.000 | 161.478 | 299090.93 | 0.3614 | P | 0.2 | -19.3 |

y = 4.3755E-005 * x + 0.3543
R = 0.6919
DL = 127.2 ppb
BEC = 8098 ppb

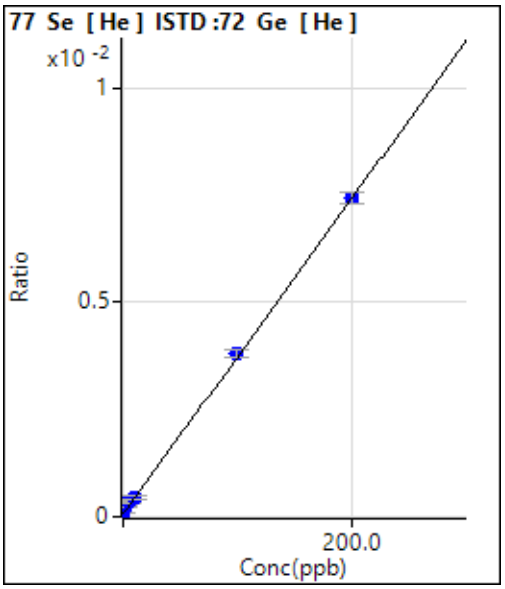
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 19317.30 | 0.0060 | P | 1.1 | |
| 2 | ☐ | 2.000 | 10.210 | 21140.06 | 0.0067 | P | 2.6 | 410.5 |
| 3 | ☐ | 5.000 | 17.731 | 22602.34 | 0.0072 | P | 1.9 | 254.6 |
| 4 | ☐ | 10.000 | 28.389 | 24442.31 | 0.0079 | P | 4.1 | 183.9 |
| 5 | ☐ | 100.000 | 99.362 | 36472.38 | 0.0125 | P | 3.9 | -0.6 |
| 6 | ☐ | 200.000 | 198.999 | 53752.78 | 0.0189 | P | 0.7 | -0.5 |

y = 6.4861E-005 * x + 0.0060
R = 0.9964
DL = 3.01 ppb
BEC = 92.99 ppb

Weight: <None>
Min Conc: <None>

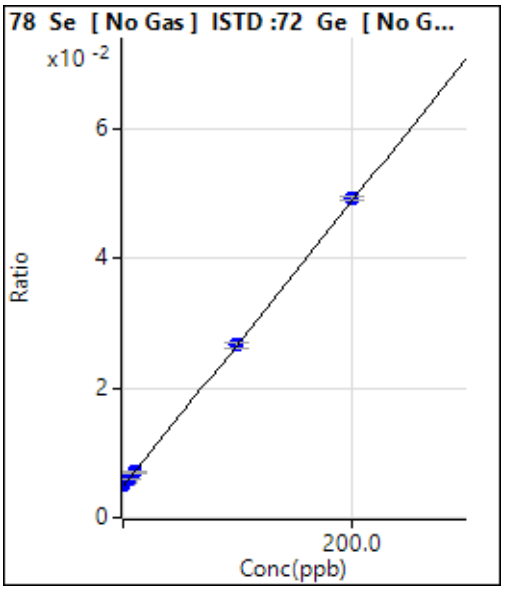



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 86.67 | 0.0001 | P | 24.7 | |
| 2 | ☐ | 2.000 | 3.797 | 210.00 | 0.0002 | P | 20.8 | 89.9 |
| 3 | ☐ | 5.000 | 6.663 | 303.34 | 0.0003 | P | 5.1 | 33.3 |
| 4 | ☐ | 10.000 | 9.176 | 383.35 | 0.0004 | P | 18.2 | -8.2 |
| 5 | ☐ | 100.000 | 100.943 | 3213.77 | 0.0038 | P | 4.5 | 0.9 |
| 6 | ☐ | 200.000 | 199.510 | 6148.15 | 0.0074 | P | 3.1 | -0.2 |

y = 3.6757E-005 * x + 9.5352E-005
R = 0.9999
DL = 1.92 ppb
BEC = 2.594 ppb

Weight: <None>
Min Conc: <None>

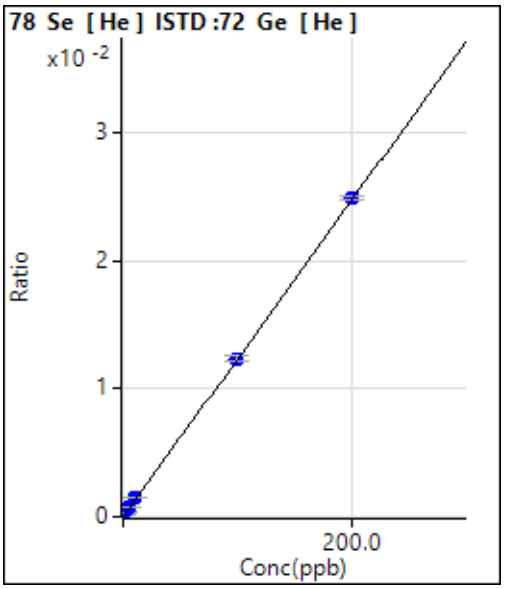
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 16203.21 | 0.0051 | P | 4.0 | |
| 2 | ☐ | 2.000 | 1.943 | 17327.91 | 0.0055 | P | 1.1 | -2.8 |
| 3 | ☐ | 5.000 | 4.075 | 18743.22 | 0.0060 | P | 2.7 | -18.5 |
| 4 | ☐ | 10.000 | 9.213 | 21994.62 | 0.0071 | P | 3.5 | -7.9 |
| 5 | ☐ | 100.000 | 97.880 | 77606.98 | 0.0266 | P | 3.2 | -2.1 |
| 6 | ☐ | 200.000 | 201.123 | 139684.29 | 0.0492 | P | 1.7 | 0.6 |

y = 2.1956E-004 * x + 0.0051
R = 0.9999
DL = 2.789 ppb
BEC = 23.05 ppb

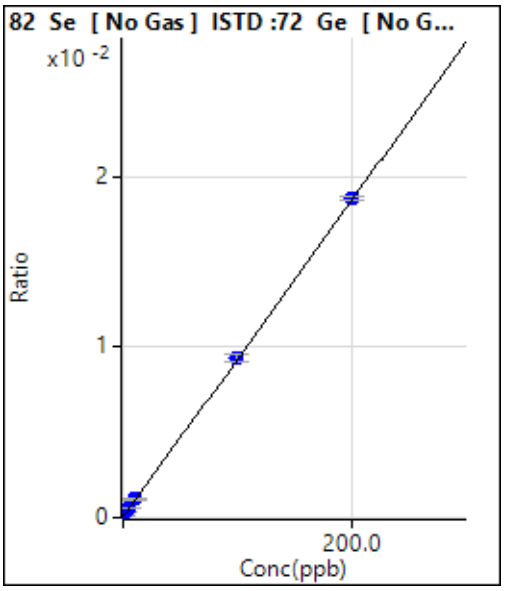
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 106.67 | 0.0001 | P | 19.6 | |
| 2 | ☐ | 2.000 | 2.100 | 337.34 | 0.0004 | P | 9.3 | 5.0 |
| 3 | ☐ | 5.000 | 4.946 | 650.68 | 0.0007 | P | 11.0 | -1.1 |
| 4 | ☐ | 10.000 | 10.974 | 1310.07 | 0.0015 | P | 2.5 | 9.7 |
| 5 | ☐ | 100.000 | 98.929 | 10450.69 | 0.0124 | P | 3.7 | -1.1 |
| 6 | ☐ | 200.000 | 200.487 | 20652.28 | 0.0250 | P | 1.6 | 0.2 |

y = 1.2388E-004 * x + 1.1736E-004
R = 1.0000
DL = 0.5562 ppb
BEC = 0.9473 ppb

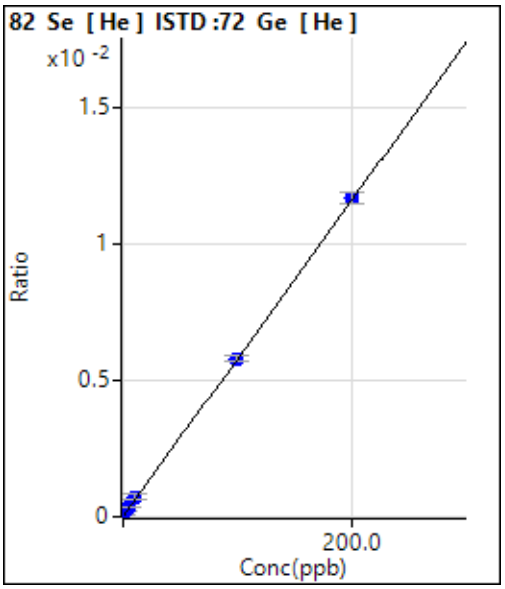
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 416.68 | 0.0001 | P | 23.2 | |
| 2 | ☐ | 2.000 | 2.166 | 1046.73 | 0.0003 | P | 9.8 | 8.3 |
| 3 | ☐ | 5.000 | 4.748 | 1796.82 | 0.0006 | P | 4.9 | -5.0 |
| 4 | ☐ | 10.000 | 10.192 | 3340.47 | 0.0011 | P | 4.7 | 1.9 |
| 5 | ☐ | 100.000 | 99.356 | 27327.86 | 0.0093 | P | 5.2 | -0.6 |
| 6 | ☐ | 200.000 | 200.317 | 53124.22 | 0.0187 | P | 0.7 | 0.2 |

y = 9.2789E-005 * x + 1.3032E-004
R = 1.0000
DL = 0.979 ppb
BEC = 1.405 ppb

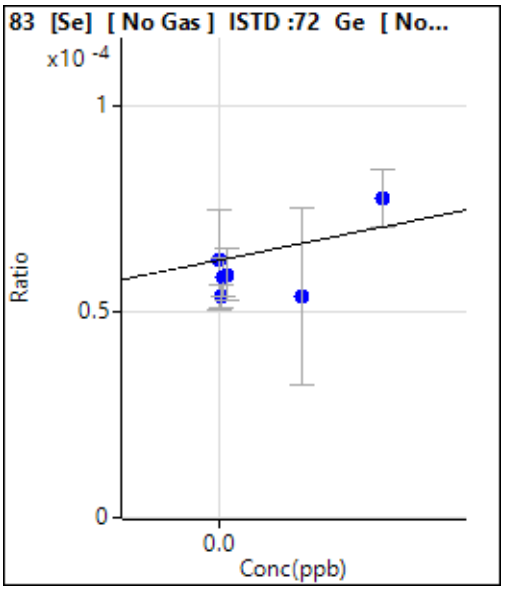
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 66.67 | 0.0001 | P | 34.3 | |
| 2 | ☐ | 2.000 | 2.080 | 173.34 | 0.0002 | P | 16.9 | 4.0 |
| 3 | ☐ | 5.000 | 4.544 | 300.01 | 0.0003 | P | 8.4 | -9.1 |
| 4 | ☐ | 10.000 | 11.047 | 633.36 | 0.0007 | P | 31.4 | 10.5 |
| 5 | ☐ | 100.000 | 98.808 | 4897.65 | 0.0058 | P | 4.2 | -1.2 |
| 6 | ☐ | 200.000 | 200.554 | 9676.94 | 0.0117 | P | 3.6 | 0.3 |

y = 5.7936E-005 * x + 7.3188E-005
R = 1.0000
DL = 1.3 ppb
BEC = 1.263 ppb

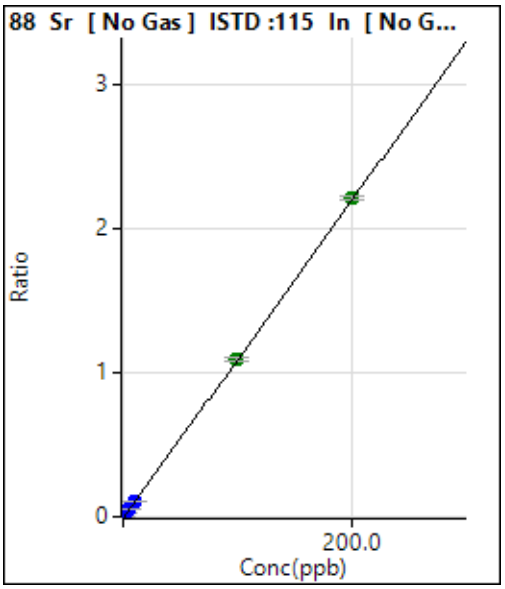
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 200.01 | 0.0001 | P | 38.2 | |
| 2 | ☐ | 2.000 | -215.533 | 170.00 | 0.0001 | P | 10.2 | -10876. |
| 3 | ☐ | 5.000 | -106.649 | 183.34 | 0.0001 | P | 16.5 | -2233.0 |
| 4 | ☐ | 10.000 | -88.045 | 183.34 | 0.0001 | P | 21.4 | -980.4 |
| 5 | ☐ | 100.000 | -217.110 | 156.67 | 0.0001 | P | 80.0 | -317.1 |
| 6 | ☐ | 200.000 | 368.424 | 220.01 | 0.0001 | P | 17.5 | 84.2 |

y = 4.0452E-008 * x + 6.2553E-005
R = 0.7170
DL = 1772 ppb
BEC = 1546 ppb

Weight: <None>
Min Conc: <None>

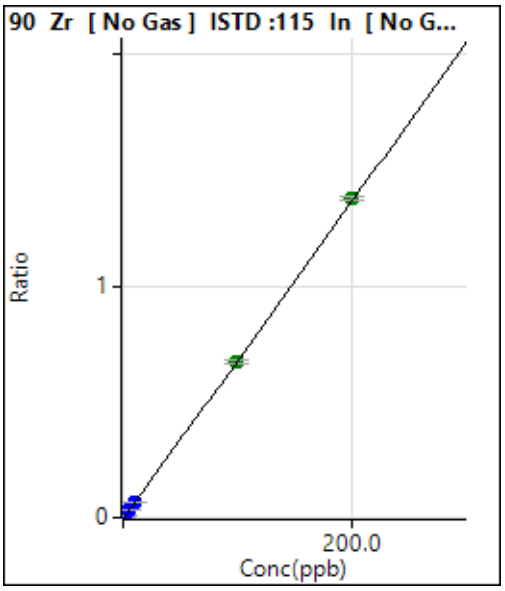



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2043.52 | 0.0005 | P | 14.3 | |
| 2 | ☐ | 2.000 | 2.046 | 100806.95 | 0.0231 | P | 1.8 | 2.3 |
| 3 | ☐ | 5.000 | 5.108 | 246714.32 | 0.0569 | P | 1.8 | 2.2 |
| 4 | ☐ | 10.000 | 10.128 | 483170.04 | 0.1123 | P | 1.9 | 1.3 |
| 5 | ☐ | 100.000 | 98.543 | 4446349.20 | 1.0885 | A | 2.4 | -1.5 |
| 6 | ☐ | 200.000 | 200.719 | 8796152.37 | 2.2165 | A | 1.6 | 0.4 |

y = 0.0110 * x + 4.6204E-004
R = 1.0000
DL = 0.01796 ppb
BEC = 0.04185 ppb

Weight: <None>
Min Conc: <None>

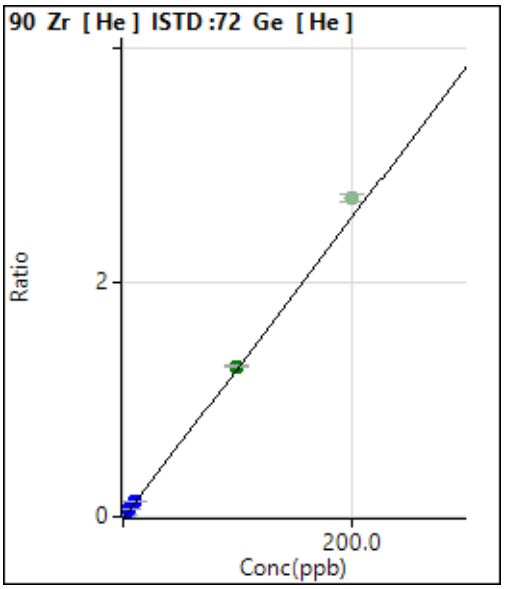
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1110.06 | 0.0003 | P | 6.6 | |
| 2 | ☐ | 2.000 | 1.664 | 50989.75 | 0.0117 | P | 1.1 | -16.8 |
| 3 | ☐ | 5.000 | 4.402 | 132064.15 | 0.0304 | P | 1.7 | -12.0 |
| 4 | ☐ | 10.000 | 9.338 | 276603.98 | 0.0643 | P | 1.2 | -6.6 |
| 5 | ☐ | 100.000 | 97.711 | 2737978.50 | 0.6703 | A | 2.3 | -2.3 |
| 6 | ☐ | 200.000 | 201.196 | 5475859.50 | 1.3798 | A | 1.3 | 0.6 |

y = 0.0069 * x + 2.5083E-004
R = 0.9999
DL = 0.007227 ppb
BEC = 0.03658 ppb

Weight: <None>
Min Conc: <None>

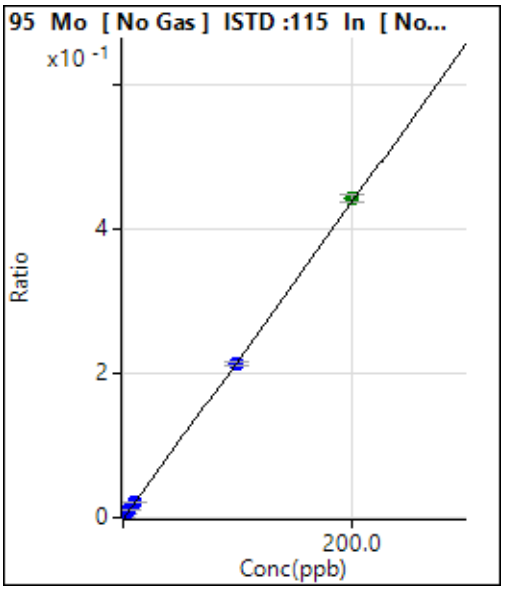



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1546.78 | 0.0017 | P | 7.0 | |
| 2 | ☐ | 2.000 | 1.699 | 20966.50 | 0.0235 | P | 3.5 | -15.0 |
| 3 | ☐ | 5.000 | 4.603 | 54058.52 | 0.0606 | P | 2.8 | -7.9 |
| 4 | ☐ | 10.000 | 9.651 | 111097.16 | 0.1253 | P | 1.6 | -3.5 |
| 5 | ☐ | 100.000 | 100.061 | 1083420.84 | 1.2827 | A | 1.9 | 0.1 |
| 6 | ☑ | 200.000 | | 2248455.17 | 2.7168 | A | 2.5 | |

y = 0.0128 * x + 0.0017
R = 1.0000
DL = 0.02786 ppb
BEC = 0.1328 ppb

Weight: <None>
Min Conc: <None>

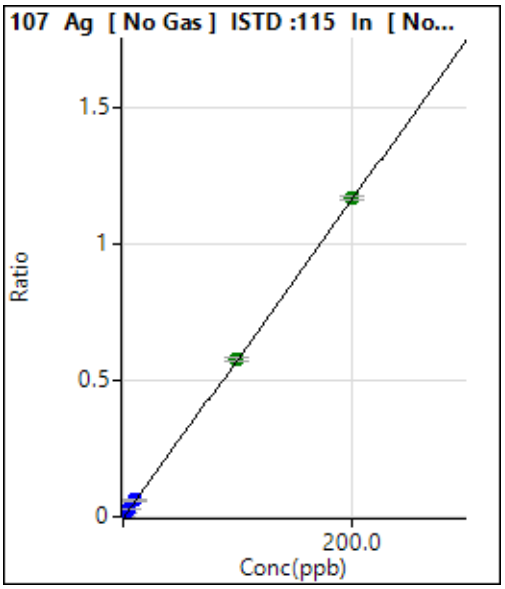
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 126.67 | 0.0000 | P | 15.8 | |
| 2 | ☐ | 2.000 | 1.938 | 18696.61 | 0.0043 | P | 3.9 | -3.1 |
| 3 | ☐ | 5.000 | 4.951 | 47206.40 | 0.0109 | P | 2.6 | -1.0 |
| 4 | ☐ | 10.000 | 9.890 | 93392.15 | 0.0217 | P | 2.5 | -1.1 |
| 5 | ☐ | 100.000 | 96.762 | 866437.20 | 0.2121 | P | 2.4 | -3.2 |
| 6 | ☐ | 200.000 | 201.626 | 1753771.80 | 0.4419 | A | 2.0 | 0.8 |

y = 0.0022 * x + 2.8607E-005
R = 0.9998
DL = 0.006193 ppb
BEC = 0.01305 ppb

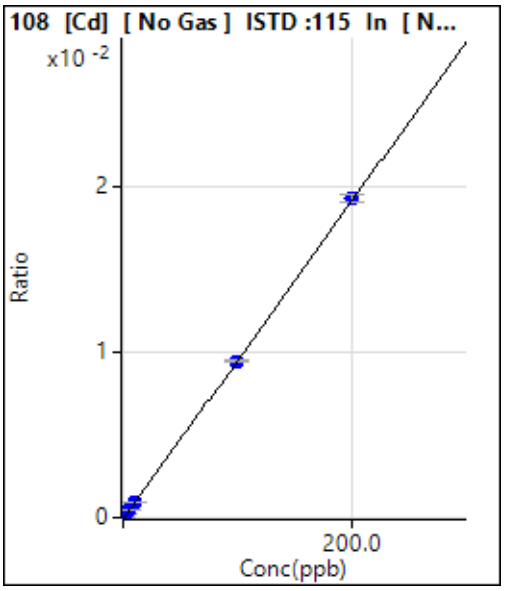
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 303.34 | 0.0001 | P | 31.9 | |
| 2 | ☐ | 2.000 | 2.098 | 53888.70 | 0.0123 | P | 2.2 | 4.9 |
| 3 | ☐ | 5.000 | 5.180 | 131578.56 | 0.0303 | P | 1.9 | 3.6 |
| 4 | ☐ | 10.000 | 10.342 | 260214.48 | 0.0605 | P | 2.0 | 3.4 |
| 5 | ☐ | 100.000 | 99.293 | 2369307.93 | 0.5800 | A | 2.0 | -0.7 |
| 6 | ☐ | 200.000 | 200.331 | 4643518.78 | 1.1701 | A | 1.4 | 0.2 |

y = 0.0058 * x + 6.8653E-005
R = 1.0000
DL = 0.01125 ppb
BEC = 0.01175 ppb

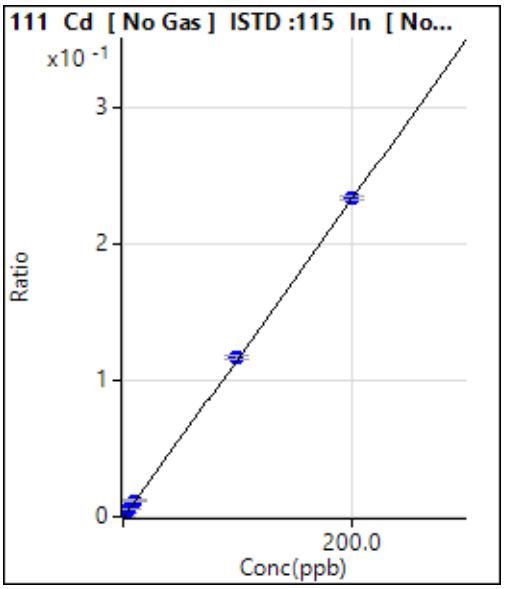
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 10.00 | 0.0000 | P | 100.2 | |
| 2 | ☐ | 2.000 | 2.102 | 893.38 | 0.0002 | P | 8.0 | 5.1 |
| 3 | ☐ | 5.000 | 4.693 | 1966.85 | 0.0005 | P | 14.7 | -6.1 |
| 4 | ☐ | 10.000 | 9.909 | 4107.37 | 0.0010 | P | 3.5 | -0.9 |
| 5 | ☐ | 100.000 | 98.249 | 38582.61 | 0.0094 | P | 0.8 | -1.8 |
| 6 | ☐ | 200.000 | 200.887 | 76619.08 | 0.0193 | P | 2.4 | 0.4 |

y = 9.6100E-005 * x + 2.2713E-006
R = 0.9999
DL = 0.07107 ppb
BEC = 0.02363 ppb

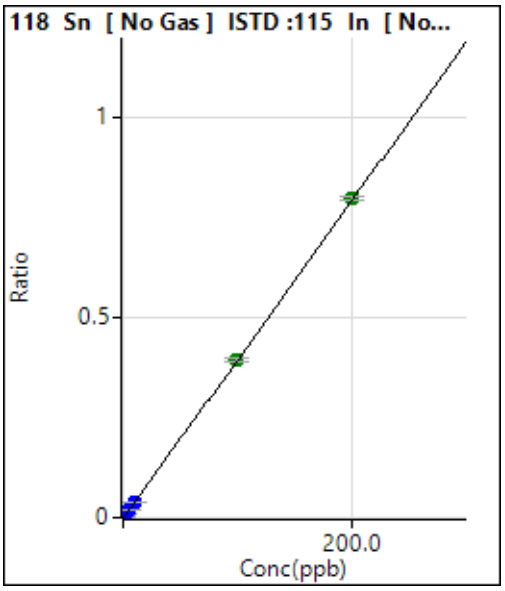
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | -7.40 | 0.0000 | P | -214. | |
| 2 | ☐ | 2.000 | 1.973 | 10099.50 | 0.0023 | P | 5.6 | -1.4 |
| 3 | ☐ | 5.000 | 5.059 | 25709.01 | 0.0059 | P | 3.3 | 1.2 |
| 4 | ☐ | 10.000 | 10.136 | 51091.88 | 0.0119 | P | 2.5 | 1.4 |
| 5 | ☐ | 100.000 | 99.931 | 478228.22 | 0.1171 | P | 1.6 | -0.1 |
| 6 | ☐ | 200.000 | 200.027 | 929935.39 | 0.2343 | P | 1.2 | 0.0 |

y = 0.0012 * x - 1.6896E-006
R = 1.0000
DL = 0.009272 ppb
BEC = -0.001442 ppb

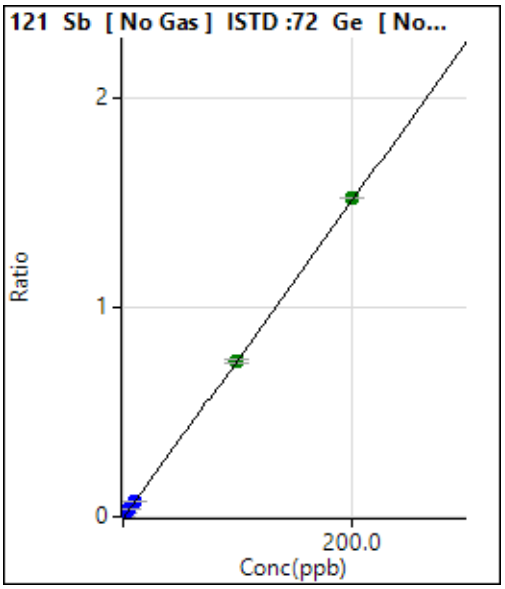
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7792.59 | 0.0018 | P | 90.4 | |
| 2 | ☐ | 2.000 | 1.722 | 37580.33 | 0.0086 | P | 1.7 | -13.9 |
| 3 | ☐ | 5.000 | 4.647 | 87664.91 | 0.0202 | P | 2.5 | -7.1 |
| 4 | ☐ | 10.000 | 9.723 | 173686.49 | 0.0404 | P | 1.5 | -2.8 |
| 5 | ☐ | 100.000 | 98.589 | 1606338.05 | 0.3932 | A | 2.6 | -1.4 |
| 6 | ☐ | 200.000 | 200.731 | 3170027.97 | 0.7988 | A | 1.2 | 0.4 |

y = 0.0040 * x + 0.0018
R = 1.0000
DL = 1.198 ppb
BEC = 0.4417 ppb

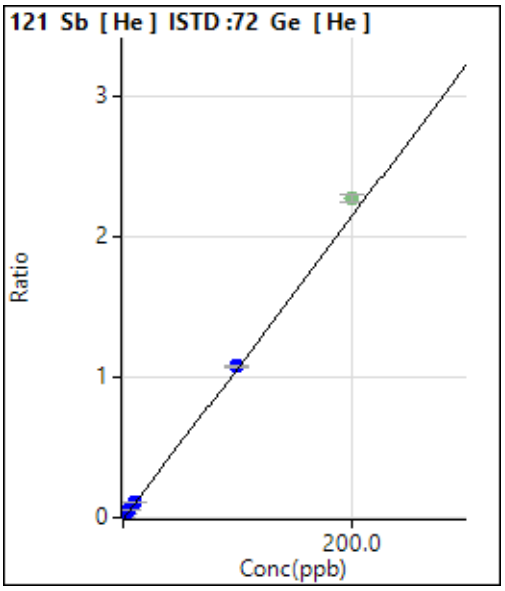
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 613.36 | 0.0002 | P | 14.2 | |
| 2 | ☐ | 2.000 | 1.914 | 46424.92 | 0.0147 | P | 1.8 | -4.3 |
| 3 | ☐ | 5.000 | 4.808 | 115324.75 | 0.0366 | P | 2.3 | -3.8 |
| 4 | ☐ | 10.000 | 9.750 | 230101.50 | 0.0741 | P | 1.4 | -2.5 |
| 5 | ☐ | 100.000 | 97.932 | 2170757.83 | 0.7426 | A | 2.6 | -2.1 |
| 6 | ☐ | 200.000 | 201.052 | 4326346.60 | 1.5244 | A | 0.5 | 0.5 |

y = 0.0076 * x + 1.9131E-004
R = 0.9999
DL = 0.01078 ppb
BEC = 0.02523 ppb

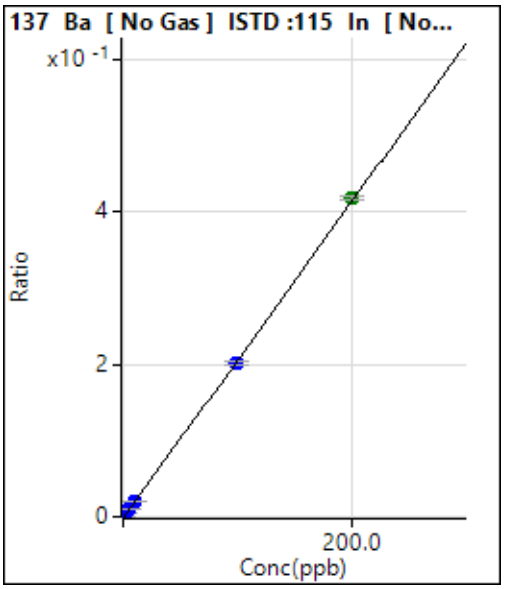
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 270.01 | 0.0003 | P | 2.9 | |
| 2 | ☐ | 2.000 | 1.985 | 19414.50 | 0.0217 | P | 2.2 | -0.7 |
| 3 | ☐ | 5.000 | 5.048 | 48830.03 | 0.0548 | P | 2.9 | 1.0 |
| 4 | ☐ | 10.000 | 10.038 | 96338.64 | 0.1086 | P | 2.1 | 0.4 |
| 5 | ☐ | 100.000 | 99.994 | 911668.94 | 1.0793 | P | 1.6 | 0.0 |
| 6 | ☑ | 200.000 | | 1885754.97 | 2.2786 | A | 2.3 | |

y = 0.0108 * x + 2.9669E-004
R = 1.0000
DL = 0.00237 ppb
BEC = 0.02749 ppb

Weight: <None>
Min Conc: <None>

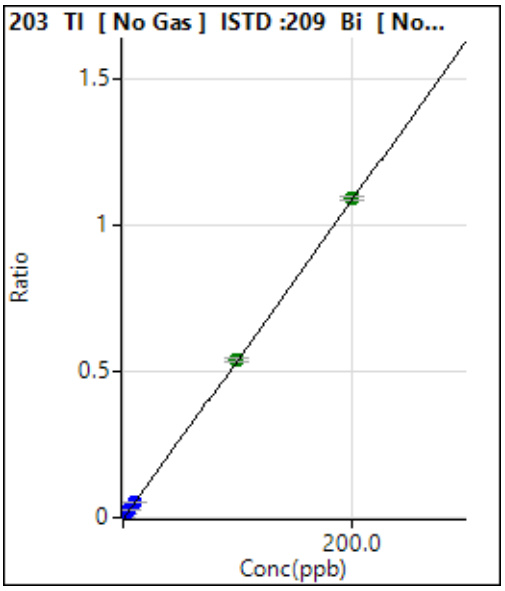



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 633.36 | 0.0001 | P | 20.8 | |
| 2 | ☐ | 2.000 | 1.950 | 18346.41 | 0.0042 | P | 2.8 | -2.5 |
| 3 | ☐ | 5.000 | 4.956 | 45298.23 | 0.0104 | P | 2.4 | -0.9 |
| 4 | ☐ | 10.000 | 9.867 | 88836.43 | 0.0206 | P | 4.7 | -1.3 |
| 5 | ☐ | 100.000 | 97.284 | 826307.96 | 0.2023 | P | 1.9 | -2.7 |
| 6 | ☐ | 200.000 | 201.366 | 1660976.80 | 0.4185 | A | 1.3 | 0.7 |

y = 0.0021 * x + 1.4299E-004
R = 0.9999
DL = 0.04294 ppb
BEC = 0.06882 ppb

Weight: <None>
Min Conc: <None>

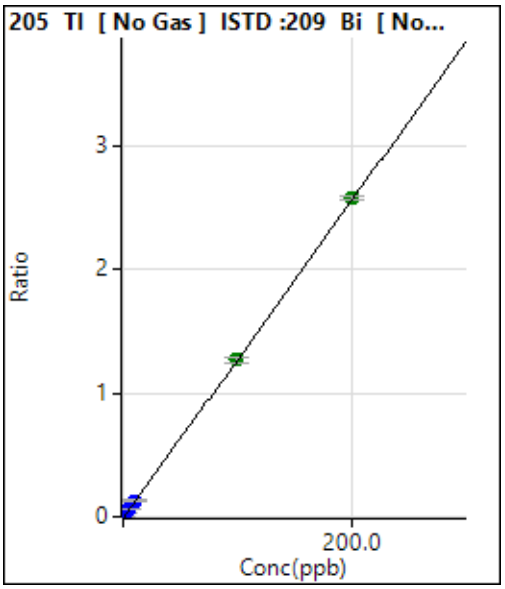
Calibration for 172_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 306.68 | 0.0001 | P | 34.6 | |
| 2 | ☐ | 2.000 | 2.068 | 55087.37 | 0.0113 | P | 1.4 | 3.4 |
| 3 | ☐ | 5.000 | 5.130 | 134948.34 | 0.0280 | P | 2.6 | 2.6 |
| 4 | ☐ | 10.000 | 10.073 | 266008.66 | 0.0549 | P | 1.7 | 0.7 |
| 5 | ☐ | 100.000 | 98.988 | 2475478.45 | 0.5390 | A | 3.1 | -1.0 |
| 6 | ☐ | 200.000 | 200.498 | 4844499.61 | 1.0916 | A | 0.9 | 0.2 |

y = 0.0054 * x + 6.2523E-005
R = 1.0000
DL = 0.01191 ppb
BEC = 0.01148 ppb

Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD | %RE |
|---|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 690.04 | 0.0001 | P | 13.9 | |
| 2 | ☐ | 2.000 | 2.067 | 130025.36 | 0.0267 | P | 0.8 | 3.3 |
| 3 | ☐ | 5.000 | 5.172 | 321407.94 | 0.0667 | P | 1.6 | 3.4 |
| 4 | ☐ | 10.000 | 10.170 | 634396.28 | 0.1309 | P | 2.0 | 1.7 |
| 5 | ☐ | 100.000 | 98.762 | 5834332.00 | 1.2703 | A | 3.1 | -1.2 |
| 6 | ☐ | 200.000 | 200.606 | 11450363.58 | 2.5800 | A | 1.0 | 0.3 |

y = 0.0129 * x + 1.4080E-004
R = 1.0000
DL = 0.004553 ppb
BEC = 0.01095 ppb

Weight: <None>
Min Conc: <None>