# LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

# ADMINISTRATIVE RECORD

**Volume 34**

**2023**

**Bate Stamp Numbers**
**01195306 – 01197145**

**Prepared for**

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

**1976–2023**

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

VOLUME 34

2023

| | | |
|---|---|---|
| A. | Title: | Report (Cont'd) – Appendix C File 1, Level IV DoD to Quarterly Evaluation Report, 2nd Quarter (April–June) 2023, Groundwater Treatment Plant, Longhorn Army Ammunition Plant Karnack, Texas |
| | Author(s): | PCI-Bhate JV |
| | Recipient: | Environmental Protection Agency and Texas Commission on Environmental Quality |
| | Date: | December 21, 2023 |
| | Bate Stamp: | 01195306–01197145 |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23060999**

## Volatiles by EPA 8260

VBLKW-230617

**VBLKW-230617**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| NA | NA | Aqueous | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromomethane | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Carbon disulfide | ug/L | 2.0 | U | 0.60 | 2.0 | 2.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Carbon tetrachloride | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Chlorobenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Chloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Chloroform | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Chloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| cis-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| cis-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Dibromochloromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Dibromomethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Dichlorodifluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Ethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Hexachlorobutadiene | ug/L | 1.0 | U | 1.0 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Isopropylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| m,p-Xylene | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Methylene chloride | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Naphthalene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| n-Butylbenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| n-Propylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| o-Xylene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| sec-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Styrene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| tert-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Tetrachloroethene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Toluene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| trans-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| trans-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Trichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Trichlorofluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |
| Vinyl chloride | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:23 | VOA6_439205 | X061707.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23060999**

## Volatiles by EPA 8260

| VBLKW-230619 | Collected | Received | Matrix | Basis |
|---|---|---|---|---|
| **VBLKW-230619** | NA | NA | Aqueous | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 1,1,1-Trichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 1,1,2,2-Tetrachloroethane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 1,1,2-Trichloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 1,1-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 1,1-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 1,1-Dichloropropene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 1,2,3-Trichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 1,2,3-Trichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 1,2,4-Trichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 1,2,4-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 1,2-Dibromo-3-chloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 1,2-Dibromoethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 1,2-Dichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 1,2-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 1,2-Dichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 1,3,5-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 1,3-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 1,3-Dichloropropane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 1,4-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 2,2-Dichloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 2-Butanone | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 2-Chlorotoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 2-Hexanone | ug/L | 2.0 | U | 1.0 | 2.0 | 2.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 4-Chlorotoluene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 4-Isopropyltoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| 4-Methyl-2-pentanone | ug/L | 2.0 | U | 0.70 | 2.0 | 2.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Acetone | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Benzene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Bromobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Bromochloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Bromodichloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Bromoform | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23060999**

## Volatiles by EPA 8260

| VBLKW-230619 | Collected | Received | Matrix | Basis |
|---|---|---|---|---|
| **VBLKW-230619** | NA | NA | Aqueous | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromomethane | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Carbon disulfide | ug/L | 2.0 | U | 0.60 | 2.0 | 2.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Carbon tetrachloride | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Chlorobenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Chloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Chloroform | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Chloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| cis-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| cis-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Dibromochloromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Dibromomethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Dichlorodifluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Ethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Hexachlorobutadiene | ug/L | 1.0 | U | 1.0 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Isopropylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| m,p-Xylene | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Methylene chloride | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Naphthalene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| n-Butylbenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| n-Propylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| o-Xylene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| sec-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Styrene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| tert-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Tetrachloroethene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Toluene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| trans-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| trans-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Trichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Trichlorofluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |
| Vinyl chloride | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:44 | VOA6_439273 | X061907.D |

01195309

right solutions.
right partner.

Form 2

# System Monitoring Compound Recovery

## Volatiles by EPA 8260

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/23/2023

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 /Site18/24

Workorder: HS23060999

RunID: VOA6-439205

## Volatiles by EPA 8260

| CCB-CCB | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| CCB | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 51.46 | 50 | 103 | | 80-120 |
| 4-Bromofluorobenzene | 47.18 | 50 | 94.4 | | 80-120 |
| Dibromofluoromethane | 49.56 | 50 | 99.1 | | 80-120 |
| Toluene-d8 | 53.71 | 50 | 107 | | 80-120 |

| CCV-CCV | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| CCV | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 54.16 | 50 | 108 | | 80-120 |
| 4-Bromofluorobenzene | 51.35 | 50 | 103 | | 80-120 |
| Dibromofluoromethane | 52.33 | 50 | 105 | | 80-120 |
| Toluene-d8 | 48.34 | 50 | 96.7 | | 80-120 |

| HS23060722-05MS | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| BatchQC | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 51.68 | 50 | 103 | | 81-118 |
| 4-Bromofluorobenzene | 48.96 | 50 | 97.9 | | 85-114 |
| Dibromofluoromethane | 49.14 | 50 | 98.3 | | 80-119 |
| Toluene-d8 | 52.94 | 50 | 106 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP /Site18/24

Workorder HS23060999

RunID VOA6-439205

## Volatiles by EPA 8260

| HS23060722-05MSD | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| BatchQC | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 50.7 | 50 | 101 | | 81-118 |
| 4-Bromofluorobenzene | 49.44 | 50 | 98.9 | | 85-114 |
| Dibromofluoromethane | 49.36 | 50 | 98.7 | | 80-119 |
| Toluene-d8 | 52.32 | 50 | 105 | | 89-112 |

| HS23060999-01 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 102_061323 | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 52 | 50 | 105 | | 81-118 |
| 4-Bromofluorobenzene | 49 | 50 | 98.1 | | 85-114 |
| Dibromofluoromethane | 51 | 50 | 101 | | 80-119 |
| Toluene-d8 | 52 | 50 | 105 | | 89-112 |

| HS23060999-02 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 18CPTMW03SW_061323 | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 52 | 50 | 105 | | 81-118 |
| 4-Bromofluorobenzene | 48 | 50 | 96.3 | | 85-114 |
| Dibromofluoromethane | 50 | 50 | 101 | | 80-119 |
| Toluene-d8 | 53 | 50 | 106 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP /Site18/24

Workorder: HS23060999

RunID: VOA6-439205

## Volatiles by EPA 8260

| HS23060999-05 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 18CPTMW22DW_061323 | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 53 | 50 | 107 | | 81-118 |
| 4-Bromofluorobenzene | 49 | 50 | 98.4 | | 85-114 |
| Dibromofluoromethane | 50 | 50 | 100.0 | | 80-119 |
| Toluene-d8 | 53 | 50 | 107 | | 89-112 |

| HS23060999-06 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 18CPTMW22R_061323 | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 53 | 50 | 106 | | 81-118 |
| 4-Bromofluorobenzene | 49 | 50 | 97.5 | | 85-114 |
| Dibromofluoromethane | 51 | 50 | 102 | | 80-119 |
| Toluene-d8 | 54 | 50 | 107 | | 89-112 |

| VBLKW-230617 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| VBLKW-230617 | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 51.46 | 50 | 103 | | 81-118 |
| 4-Bromofluorobenzene | 48.92 | 50 | 97.8 | | 85-114 |
| Dibromofluoromethane | 50.82 | 50 | 102 | | 80-119 |
| Toluene-d8 | 53.41 | 50 | 107 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

| | | | |
|---|---|---|---|
| **Client** | Bhate Environmental Associates, Inc. | Workorder | |
| **Project** | LHAAP /Site18/24 | **HS23060999** | |

RunID

## Volatiles by EPA 8260

VOA6-439205

| VLCSW-230617 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| **VLCSW-230617** | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 55.25 | 50 | 111 | | 81-118 |
| 4-Bromofluorobenzene | 52.77 | 50 | 106 | | 85-114 |
| Dibromofluoromethane | 54.46 | 50 | 109 | | 80-119 |
| Toluene-d8 | 50.42 | 50 | 101 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP /Site18/24

Workorder HS23060999

RunID VOA6-439273

## Volatiles by EPA 8260

| CCB-CCB | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| CCB | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 51.11 | 50 | 102 | | 80-120 |
| 4-Bromofluorobenzene | 48.94 | 50 | 97.9 | | 80-120 |
| Dibromofluoromethane | 49.7 | 50 | 99.4 | | 80-120 |
| Toluene-d8 | 52.97 | 50 | 106 | | 80-120 |

| CCV-CCV | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| CCV | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 54.7 | 50 | 109 | | 80-120 |
| 4-Bromofluorobenzene | 52.23 | 50 | 104 | | 80-120 |
| Dibromofluoromethane | 53.51 | 50 | 107 | | 80-120 |
| Toluene-d8 | 48.49 | 50 | 97.0 | | 80-120 |

| HS23060999-03 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 120_061323 | 06/19/23 | %REC | 25 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 1300 | 1250 | 107 | | 81-118 |
| 4-Bromofluorobenzene | 1200 | 1250 | 97.4 | | 85-114 |
| Dibromofluoromethane | 1300 | 1250 | 103 | | 80-119 |
| Toluene-d8 | 1300 | 1250 | 107 | | 89-112 |
| 1,2-Dichloroethane-d4 | 13000 | 12500 | 105 | | 81-118 |
| 4-Bromofluorobenzene | 12000 | 12500 | 96.6 | | 85-114 |
| Dibromofluoromethane | 13000 | 12500 | 101 | | 80-119 |
| Toluene-d8 | 13000 | 12500 | 106 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP /Site18/24

Workorder: HS23060999

RunID: VOA6-439273

## Volatiles by EPA 8260

| HS23060999-04 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| MW14_061323 | 06/19/23 | %REC | 10 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 530 | 500 | 106 | | 81-118 |
| 4-Bromofluorobenzene | 480 | 500 | 95.4 | | 85-114 |
| Dibromofluoromethane | 500 | 500 | 101 | | 80-119 |
| Toluene-d8 | 540 | 500 | 108 | | 89-112 |
| 1,2-Dichloroethane-d4 | 5300 | 5000 | 107 | | 81-118 |
| 4-Bromofluorobenzene | 4900 | 5000 | 97.3 | | 85-114 |
| Dibromofluoromethane | 5000 | 5000 | 100.0 | | 80-119 |
| Toluene-d8 | 5400 | 5000 | 108 | | 89-112 |

| HS23060999-07 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 18CPTMW22SW_061323 | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 52 | 50 | 104 | | 81-118 |
| 4-Bromofluorobenzene | 49 | 50 | 97.3 | | 85-114 |
| Dibromofluoromethane | 50 | 50 | 99.7 | | 80-119 |
| Toluene-d8 | 54 | 50 | 108 | | 89-112 |

| HS23060999-07MS | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 18CPTMW22SW_061323 | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 51.91 | 50 | 104 | | 81-118 |
| 4-Bromofluorobenzene | 50.83 | 50 | 102 | | 85-114 |
| Dibromofluoromethane | 50.37 | 50 | 101 | | 80-119 |
| Toluene-d8 | 52.42 | 50 | 105 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP /Site18/24

Workorder: HS23060999

RunID: VOA6-439273

## Volatiles by EPA 8260

| HS23060999-07MSD | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 18CPTMW22SW_061323 | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 51.63 | 50 | 103 | | 81-118 |
| 4-Bromofluorobenzene | 49.29 | 50 | 98.6 | | 85-114 |
| Dibromofluoromethane | 50.11 | 50 | 100 | | 80-119 |
| Toluene-d8 | 52.43 | 50 | 105 | | 89-112 |

| HS23060999-08 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| Trip Blank | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 53 | 50 | 106 | | 81-118 |
| 4-Bromofluorobenzene | 49 | 50 | 98.4 | | 85-114 |
| Dibromofluoromethane | 51 | 50 | 102 | | 80-119 |
| Toluene-d8 | 52 | 50 | 105 | | 89-112 |

| VBLKW-230619 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| VBLKW-230619 | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 53.13 | 50 | 106 | | 81-118 |
| 4-Bromofluorobenzene | 48.12 | 50 | 96.2 | | 85-114 |
| Dibromofluoromethane | 50.32 | 50 | 101 | | 80-119 |
| Toluene-d8 | 52.28 | 50 | 105 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

| | | | |
|---|---|---|---|
| **Client** | Bhate Environmental Associates, Inc. | Workorder | |
| **Project** | LHAAP /Site18/24 | **HS23060999** | |

RunID

## Volatiles by EPA 8260

VOA6-439273

| VLCSW-230619 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| **VLCSW-230619** | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 55.22 | 50 | 110 | | 81-118 |
| 4-Bromofluorobenzene | 52.51 | 50 | 105 | | 85-114 |
| Dibromofluoromethane | 54.95 | 50 | 110 | | 80-119 |
| Toluene-d8 | 50.49 | 50 | 101 | | 89-112 |

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Form 3A

# Matrix Spike/Spike Duplicate Recovery

## Volatiles by EPA 8260

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/23/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

# Form 3A - Matrix Spike/Spike Duplicate Recovery

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23060999**

RunID VOA6-439205

## Volatiles by EPA 8260

| BatchQC (HS23060722-05) | | | | HS23060722-05MS | | | | HS23060722-05MSD | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Matrix: Aqueous | | | Run Date | 06/17/23 | | | | 06/17/23 | | | | | | |
| Result Units: ug/L | | | Run Time | 14:26 | | | | 14:47 | | | | | | |
| | | | Data File | X061710.D | | | | X061711.D | | | | | | |
| 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 | 22.13 | 20 | 111 | | 21.8 | 20 | 109 | | 20 | 1.51 | |
| 1,1,1-Trichloroethane | 74-131 | 1 | 0 | 21.53 | 20 | 108 | | 21.66 | 20 | 108 | | 20 | 0.593 | |
| 1,1,2,2-Tetrachloroethane | 71-121 | 1 | 0 | 22.27 | 20 | 111 | | 22.9 | 20 | 114 | | 20 | 2.78 | |
| 1,1,2-Trichloroethane | 80-119 | 1 | 0 | 22.32 | 20 | 112 | | 22.11 | 20 | 111 | | 20 | 0.947 | |
| 1,1-Dichloroethane | 77-125 | 1 | 5.87 | 26.73 | 20 | 104 | | 26.49 | 20 | 103 | | 20 | 0.923 | |
| 1,1-Dichloroethene | 71-131 | 1 | 28.53 | 50.29 | 20 | 109 | | 47.7 | 20 | 96 | | 20 | 5.27 | |
| 1,1-Dichloropropene | 78-125 | 1 | 0 | 23.42 | 20 | 117 | | 22.72 | 20 | 114 | | 20 | 3.01 | |
| 1,2,3-Trichlorobenzene | 69-129 | 1 | 0 | 22.81 | 20 | 114 | | 23.72 | 20 | 119 | | 20 | 3.91 | |
| 1,2,3-Trichloropropane | 73-122 | 1 | 0 | 23.28 | 20 | 116 | | 25.69 | 20 | 128 | | 20 | 9.83 | |
| 1,2,4-Trichlorobenzene | 69-130 | 1 | 0 | 23.53 | 20 | 118 | | 23.43 | 20 | 117 | | 20 | 0.446 | |
| 1,2,4-Trimethylbenzene | 76-124 | 1 | 0 | 24.35 | 20 | 122 | | 24.1 | 20 | 121 | | 20 | 1.01 | |
| 1,2-Dibromo-3-chloropropane | 62-128 | 1 | 0 | 23.23 | 20 | 116 | | 23.35 | 20 | 117 | | 20 | 0.524 | |
| 1,2-Dibromoethane | 77-121 | 1 | 0 | 22.39 | 20 | 112 | | 22.47 | 20 | 112 | | 20 | 0.383 | |
| 1,2-Dichlorobenzene | 80-119 | 1 | 0 | 23 | 20 | 115 | | 23.24 | 20 | 116 | | 20 | 1.04 | |
| 1,2-Dichloroethane | 73-128 | 1 | 0 | 22.52 | 20 | 113 | | 22.37 | 20 | 112 | | 20 | 0.668 | |
| 1,2-Dichloropropane | 78-122 | 1 | 0 | 21.79 | 20 | 109 | | 21.88 | 20 | 109 | | 20 | 0.413 | |
| 1,3,5-Trimethylbenzene | 75-124 | 1 | 0 | 24.53 | 20 | 123 | | 24.64 | 20 | 123 | | 20 | 0.448 | |
| 1,3-Dichlorobenzene | 80-119 | 1 | 0 | 23.44 | 20 | 117 | | 23.09 | 20 | 115 | | 20 | 1.49 | |
| 1,3-Dichloropropane | 80-119 | 1 | 0 | 22.9 | 20 | 115 | | 22.86 | 20 | 114 | | 20 | 0.179 | |
| 1,4-Dichlorobenzene | 79-118 | 1 | 0 | 22.91 | 20 | 115 | | 22.58 | 20 | 113 | | 20 | 1.45 | |
| 2,2-Dichloropropane | 60-139 | 1 | 0 | 23.8 | 20 | 119 | | 23.33 | 20 | 117 | | 20 | 1.99 | |
| 2-Butanone | 56-143 | 1 | 0 | 35.54 | 40 | 89 | | 40.91 | 40 | 102 | | 20 | 14 | |
| 2-Chlorotoluene | 79-122 | 1 | 0 | 24.19 | 20 | 121 | | 23.72 | 20 | 119 | | 20 | 1.96 | |
| 2-Hexanone | 57-139 | 1 | 0 | 47.34 | 40 | 118 | | 48.78 | 40 | 122 | | 20 | 3.01 | |
| 4-Chlorotoluene | 78-122 | 1 | 0 | 24.54 | 20 | 123 | | 24.53 | 20 | 123 | | 20 | 0.0422 | |
| 4-Isopropyltoluene | 77-127 | 1 | 0 | 25.14 | 20 | 126 | | 24.91 | 20 | 125 | | 20 | 0.914 | |
| 4-Methyl-2-pentanone | 67-130 | 1 | 0 | 47.74 | 40 | 119 | | 48.23 | 40 | 121 | | 20 | 1.03 | |
| Acetone | 39-160 | 1 | 0 | 34.24 | 40 | 86 | | 35.79 | 40 | 90 | | 20 | 4.43 | |
| Benzene | 79-120 | 1 | 0 | 21.98 | 20 | 110 | | 21.51 | 20 | 108 | | 20 | 2.2 | |
| Bromobenzene | 80-120 | 1 | 0 | 22.55 | 20 | 113 | | 22.93 | 20 | 115 | | 20 | 1.67 | |
| Bromochloromethane | 78-123 | 1 | 0 | 19.53 | 20 | 98 | | 19.88 | 20 | 99 | | 20 | 1.78 | |
| Bromodichloromethane | 79-125 | 1 | 0 | 21.12 | 20 | 106 | | 20.95 | 20 | 105 | | 20 | 0.827 | |
| Bromoform | 66-130 | 1 | 0 | 21.24 | 20 | 106 | | 21.85 | 20 | 109 | | 20 | 2.84 | |
| Bromomethane | 53-141 | 1 | 0 | 20.15 | 20 | 101 | | 20.23 | 20 | 101 | | 20 | 0.366 | |

Q - %Recovery / RPD Flag  * - %Recovery / RPD Outside Limits  OL - Outside Limits  %R - %Recovery  DF - Dilution Factor  Amt - Amount (weight or volume)

# Form 3A - Matrix Spike/Spike Duplicate Recovery

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23060999**

RunID VOA6-439205

## Volatiles by EPA 8260

| BatchQC (HS23060722-05) | | | | HS23060722-05MS | | | | HS23060722-05MSD | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Matrix: Aqueous | | | Run Date | 06/17/23 | | | | 06/17/23 | | | | | | |
| Result Units: ug/L | | | Run Time | 14:26 | | | | 14:47 | | | | | | |
| | | | Data File | X061710.D | | | | X061711.D | | | | | | |
| Analyte | %R Limits | DF | Sample Result | MS Result | Spike Added | %R | Q | MSD Result | Spike Added | %R | Q | RPD Limit | RPD | Q |
| Carbon disulfide | 64-133 | 1 | 0 | 39.11 | 40 | 98 | | 38.18 | 40 | 95 | | 20 | 2.42 | |
| Carbon tetrachloride | 72-136 | 1 | 0 | 23.31 | 20 | 117 | | 22.81 | 20 | 114 | | 20 | 2.15 | |
| Chlorobenzene | 82-118 | 1 | 0 | 22.88 | 20 | 114 | | 22.33 | 20 | 112 | | 20 | 2.43 | |
| Chloroethane | 60-138 | 1 | 0 | 21.98 | 20 | 110 | | 21.24 | 20 | 106 | | 20 | 3.45 | |
| Chloroform | 79-124 | 1 | 0 | 20.12 | 20 | 101 | | 20.03 | 20 | 100 | | 20 | 0.453 | |
| Chloromethane | 50-139 | 1 | 0 | 21.19 | 20 | 106 | | 21.29 | 20 | 106 | | 20 | 0.467 | |
| cis-1,2-Dichloroethene | 78-123 | 1 | 0 | 20.78 | 20 | 104 | | 20.67 | 20 | 103 | | 20 | 0.519 | |
| cis-1,3-Dichloropropene | 75-124 | 1 | 0 | 21.58 | 20 | 108 | | 21.74 | 20 | 109 | | 20 | 0.717 | |
| Dibromochloromethane | 74-126 | 1 | 0 | 22.04 | 20 | 110 | | 22.03 | 20 | 110 | | 20 | 0.0225 | |
| Dibromomethane | 79-123 | 1 | 0 | 21.53 | 20 | 108 | | 21.93 | 20 | 110 | | 20 | 1.83 | |
| Dichlorodifluoromethane | 32-152 | 1 | 0 | 21.09 | 20 | 105 | | 20.93 | 20 | 105 | | 20 | 0.772 | |
| Ethylbenzene | 79-121 | 1 | 0 | 23.49 | 20 | 117 | | 22.84 | 20 | 114 | | 20 | 2.78 | |
| Hexachlorobutadiene | 66-134 | 1 | 0 | 24.33 | 20 | 122 | | 24.31 | 20 | 122 | | 20 | 0.0778 | |
| Isopropylbenzene | 72-131 | 1 | 0 | 24.24 | 20 | 121 | | 23.72 | 20 | 119 | | 20 | 2.14 | |
| m,p-Xylene | 80-121 | 1 | 0 | 47.9 | 40 | 120 | | 47.36 | 40 | 118 | | 20 | 1.13 | |
| Methylene chloride | 74-124 | 1 | 0 | 18.89 | 20 | 94 | | 19.15 | 20 | 96 | | 20 | 1.4 | |
| Naphthalene | 61-128 | 1 | 0 | 23.12 | 20 | 116 | | 24.24 | 20 | 121 | | 20 | 4.71 | |
| n-Butylbenzene | 75-128 | 1 | 0 | 26.53 | 20 | 133 | | 25.9 | 20 | 130 | | 20 | 2.38 | |
| n-Propylbenzene | 76-126 | 1 | 0 | 25.61 | 20 | 128 | | 25.19 | 20 | 126 | | 20 | 1.65 | |
| o-Xylene | 78-122 | 1 | 0 | 23.05 | 20 | 115 | | 22.56 | 20 | 113 | | 20 | 2.17 | |
| sec-Butylbenzene | 77-126 | 1 | 0 | 25.39 | 20 | 127 | | 24.92 | 20 | 125 | | 20 | 1.88 | |
| Styrene | 78-123 | 1 | 0 | 23.01 | 20 | 115 | | 22.64 | 20 | 113 | | 20 | 1.63 | |
| tert-Butylbenzene | 78-124 | 1 | 0 | 24.95 | 20 | 125 | | 24.76 | 20 | 124 | | 20 | 0.772 | |
| Tetrachloroethene | 74-129 | 1 | 0 | 24.07 | 20 | 120 | | 23.47 | 20 | 117 | | 20 | 2.54 | |
| Toluene | 80-121 | 1 | 0 | 23.37 | 20 | 117 | | 22.98 | 20 | 115 | | 20 | 1.7 | |
| trans-1,2-Dichloroethene | 75-124 | 1 | 0 | 20.39 | 20 | 102 | | 20.82 | 20 | 104 | | 20 | 2.09 | |
| trans-1,3-Dichloropropene | 73-127 | 1 | 0 | 21.94 | 20 | 110 | | 21.46 | 20 | 107 | | 20 | 2.24 | |
| Trichloroethene | 79-123 | 1 | 0 | 22.02 | 20 | 110 | | 21.83 | 20 | 109 | | 20 | 0.848 | |
| Trichlorofluoromethane | 65-141 | 1 | 0 | 23.23 | 20 | 116 | | 22.26 | 20 | 111 | | 20 | 4.27 | |
| Vinyl chloride | 58-137 | 1 | 0 | 22 | 20 | 110 | | 21.4 | 20 | 107 | | 20 | 2.74 | |

Q - %Recovery / RPD Flag  * - %Recovery / RPD Outside Limits  OL - Outside Limits  %R - %Recovery  DF - Dilution Factor  Amt - Amount (weight or volume)

# Form 3A - Matrix Spike/Spike Duplicate Recovery

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23060999**

RunID VOA6-439273

## Volatiles by EPA 8260

| 18CPTMW22SW_061323 (HS23060999-07) | | | | HS23060999-07MS | | | | HS23060999-07MSD | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Matrix: Aqueous | | | Run Date | 06/19/23 | | | | 06/19/23 | | | | | | |
| Result Units: ug/L | | | Run Time | 14:50 | | | | 15:12 | | | | | | |
| | | | Data File | X061913.D | | | | X061914.D | | | | | | |
| 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 | 21.85 | 20 | 109 | | 20.05 | 20 | 100 | | 20 | 8.58 | |
| 1,1,1-Trichloroethane | 74-131 | 1 | 0 | 22.67 | 20 | 113 | | 20.3 | 20 | 102 | | 20 | 11 | |
| 1,1,2,2-Tetrachloroethane | 71-121 | 1 | 0 | 22.01 | 20 | 110 | | 19.25 | 20 | 96 | | 20 | 13.3 | |
| 1,1,2-Trichloroethane | 80-119 | 1 | 0 | 21.2 | 20 | 106 | | 19.72 | 20 | 99 | | 20 | 7.23 | |
| 1,1-Dichloroethane | 77-125 | 1 | 0 | 20.72 | 20 | 104 | | 19.11 | 20 | 96 | | 20 | 8.07 | |
| 1,1-Dichloroethene | 71-131 | 1 | 0 | 24.65 | 20 | 123 | | 22.29 | 20 | 111 | | 20 | 10.1 | |
| 1,1-Dichloropropene | 78-125 | 1 | 0 | 23.53 | 20 | 118 | | 21.19 | 20 | 106 | | 20 | 10.5 | |
| 1,2,3-Trichlorobenzene | 69-129 | 1 | 0 | 21.92 | 20 | 110 | | 20.89 | 20 | 104 | | 20 | 4.8 | |
| 1,2,3-Trichloropropane | 73-122 | 1 | 0 | 22.77 | 20 | 114 | | 20.04 | 20 | 100 | | 20 | 12.8 | |
| 1,2,4-Trichlorobenzene | 69-130 | 1 | 0 | 22.31 | 20 | 112 | | 20.46 | 20 | 102 | | 20 | 8.63 | |
| 1,2,4-Trimethylbenzene | 76-124 | 1 | 0 | 24.74 | 20 | 124 | | 22.89 | 20 | 114 | | 20 | 7.79 | |
| 1,2-Dibromo-3-chloropropane | 62-128 | 1 | 0 | 21.52 | 20 | 108 | | 18.96 | 20 | 95 | | 20 | 12.6 | |
| 1,2-Dibromoethane | 77-121 | 1 | 0 | 21.17 | 20 | 106 | | 19.62 | 20 | 98 | | 20 | 7.58 | |
| 1,2-Dichlorobenzene | 80-119 | 1 | 0 | 23.26 | 20 | 116 | | 21.94 | 20 | 110 | | 20 | 5.82 | |
| 1,2-Dichloroethane | 73-128 | 1 | 0 | 23.28 | 20 | 116 | | 21.48 | 20 | 107 | | 20 | 8.04 | |
| 1,2-Dichloropropane | 78-122 | 1 | 0 | 21.5 | 20 | 107 | | 19.76 | 20 | 99 | | 20 | 8.43 | |
| 1,3,5-Trimethylbenzene | 75-124 | 1 | 0 | 24.99 | 20 | 125 | | 23.25 | 20 | 116 | | 20 | 7.22 | |
| 1,3-Dichlorobenzene | 80-119 | 1 | 0 | 23.43 | 20 | 117 | | 21.74 | 20 | 109 | | 20 | 7.46 | |
| 1,3-Dichloropropane | 80-119 | 1 | 0 | 21.65 | 20 | 108 | | 20.41 | 20 | 102 | | 20 | 5.89 | |
| 1,4-Dichlorobenzene | 79-118 | 1 | 0 | 23.31 | 20 | 117 | | 21.66 | 20 | 108 | | 20 | 7.32 | |
| 2,2-Dichloropropane | 60-139 | 1 | 0 | 24.11 | 20 | 121 | | 21.66 | 20 | 108 | | 20 | 10.7 | |
| 2-Butanone | 56-143 | 1 | 0 | 35.77 | 40 | 89 | | 31.84 | 40 | 80 | | 20 | 11.6 | |
| 2-Chlorotoluene | 79-122 | 1 | 0 | 24.23 | 20 | 121 | | 22.14 | 20 | 111 | | 20 | 9.03 | |
| 2-Hexanone | 57-139 | 1 | 0 | 41.79 | 40 | 104 | | 39.64 | 40 | 99 | | 20 | 5.28 | |
| 4-Chlorotoluene | 78-122 | 1 | 0 | 24.96 | 20 | 125 | | 22.93 | 20 | 115 | | 20 | 8.47 | |
| 4-Isopropyltoluene | 77-127 | 1 | 0 | 26.29 | 20 | 131 | | 24.09 | 20 | 120 | | 20 | 8.74 | |
| 4-Methyl-2-pentanone | 67-130 | 1 | 0 | 41 | 40 | 103 | | 39.89 | 40 | 100 | | 20 | 2.76 | |
| Acetone | 39-160 | 1 | 15.25 | 51.42 | 40 | 90 | | 47.93 | 40 | 82 | | 20 | 7.03 | |
| Benzene | 79-120 | 1 | 0 | 21.74 | 20 | 109 | | 19.72 | 20 | 99 | | 20 | 9.72 | |
| Bromobenzene | 80-120 | 1 | 0 | 23.21 | 20 | 116 | | 20.56 | 20 | 103 | | 20 | 12.1 | |
| Bromochloromethane | 78-123 | 1 | 0 | 20.1 | 20 | 100 | | 18.45 | 20 | 92 | | 20 | 8.51 | |
| Bromodichloromethane | 79-125 | 1 | 0 | 21.49 | 20 | 107 | | 19.9 | 20 | 100 | | 20 | 7.71 | |
| Bromoform | 66-130 | 1 | 0 | 21.9 | 20 | 109 | | 19.31 | 20 | 96 | | 20 | 12.6 | |
| Bromomethane | 53-141 | 1 | 0 | 23.84 | 20 | 119 | | 21.25 | 20 | 106 | | 20 | 11.5 | |

Q - %Recovery / RPD Flag  * - %Recovery / RPD Outside Limits  OL - Outside Limits  %R - %Recovery  DF - Dilution Factor  Amt - Amount (weight or volume)

# Form 3A - Matrix Spike/Spike Duplicate Recovery

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23060999**

RunID VOA6-439273

## Volatiles by EPA 8260

| 18CPTMW22SW_061323 (HS23060999-07) | | | | HS23060999-07MS | | | | HS23060999-07MSD | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample Matrix** Aqueous | | | **Run Date** | 06/19/23 | | | | 06/19/23 | | | | | | |
| **Result Units** ug/L | | | **Run Time** | 14:50 | | | | 15:12 | | | | | | |
| | | | **Data File** | X061913.D | | | | X061914.D | | | | | | |
| Analyte | %R Limits | DF | Sample Result | MS Result | Spike Added | %R | Q | MSD Result | Spike Added | %R | Q | RPD Limit | RPD | Q |
| Carbon disulfide | 64-133 | 1 | 0 | 39.18 | 40 | 98 | | 34.79 | 40 | 87 | | 20 | 11.9 | |
| Carbon tetrachloride | 72-136 | 1 | 0 | 25.01 | 20 | 125 | | 22.02 | 20 | 110 | | 20 | 12.7 | |
| Chlorobenzene | 82-118 | 1 | 0 | 23.71 | 20 | 119 | | 21.61 | 20 | 108 | | 20 | 9.28 | |
| Chloroethane | 60-138 | 1 | 0 | 25.16 | 20 | 126 | | 22.58 | 20 | 113 | | 20 | 10.8 | |
| Chloroform | 79-124 | 1 | 0 | 20.66 | 20 | 103 | | 18.61 | 20 | 93 | | 20 | 10.4 | |
| Chloromethane | 50-139 | 1 | 0 | 24.72 | 20 | 124 | | 22.82 | 20 | 114 | | 20 | 7.98 | |
| cis-1,2-Dichloroethene | 78-123 | 1 | 0 | 20.64 | 20 | 103 | | 19.15 | 20 | 96 | | 20 | 7.5 | |
| cis-1,3-Dichloropropene | 75-124 | 1 | 0 | 21.4 | 20 | 107 | | 19.86 | 20 | 99 | | 20 | 7.47 | |
| Dibromochloromethane | 74-126 | 1 | 0 | 21.21 | 20 | 106 | | 19.64 | 20 | 98 | | 20 | 7.68 | |
| Dibromomethane | 79-123 | 1 | 0 | 22.01 | 20 | 110 | | 20.51 | 20 | 103 | | 20 | 7.05 | |
| Dichlorodifluoromethane | 32-152 | 1 | 0 | 22.63 | 20 | 113 | | 19.87 | 20 | 99 | | 20 | 13 | |
| Ethylbenzene | 79-121 | 1 | 0 | 23.6 | 20 | 118 | | 20.69 | 20 | 103 | | 20 | 13.1 | |
| Hexachlorobutadiene | 66-134 | 1 | 0 | 25.6 | 20 | 128 | | 22.79 | 20 | 114 | | 20 | 11.6 | |
| Isopropylbenzene | 72-131 | 1 | 0 | 25.03 | 20 | 125 | | 22.03 | 20 | 110 | | 20 | 12.8 | |
| m,p-Xylene | 80-121 | 1 | 0 | 50.18 | 40 | 125 | | 44.95 | 40 | 112 | | 20 | 11 | |
| Methylene chloride | 74-124 | 1 | 0 | 18.98 | 20 | 95 | | 17.75 | 20 | 89 | | 20 | 6.7 | |
| Naphthalene | 61-128 | 1 | 0 | 21.49 | 20 | 107 | | 19.93 | 20 | 100 | | 20 | 7.49 | |
| n-Butylbenzene | 75-128 | 1 | 0 | 27.93 | 20 | 140 | | 25.45 | 20 | 127 | | 20 | 9.31 | |
| n-Propylbenzene | 76-126 | 1 | 0 | 26.05 | 20 | 130 | | 22.52 | 20 | 113 | | 20 | 14.5 | |
| o-Xylene | 78-122 | 1 | 0 | 23.51 | 20 | 118 | | 20.96 | 20 | 105 | | 20 | 11.5 | |
| sec-Butylbenzene | 77-126 | 1 | 0 | 26.46 | 20 | 132 | | 24.31 | 20 | 122 | | 20 | 8.48 | |
| Styrene | 78-123 | 1 | 0 | 23.96 | 20 | 120 | | 21.91 | 20 | 110 | | 20 | 8.95 | |
| tert-Butylbenzene | 78-124 | 1 | 0 | 25.63 | 20 | 128 | | 23.36 | 20 | 117 | | 20 | 9.26 | |
| Tetrachloroethene | 74-129 | 1 | 0 | 24.02 | 20 | 120 | | 21.32 | 20 | 107 | | 20 | 11.9 | |
| Toluene | 80-121 | 1 | 0 | 23.73 | 20 | 119 | | 21.12 | 20 | 106 | | 20 | 11.7 | |
| trans-1,2-Dichloroethene | 75-124 | 1 | 0 | 21.4 | 20 | 107 | | 19.25 | 20 | 96 | | 20 | 10.5 | |
| trans-1,3-Dichloropropene | 73-127 | 1 | 0 | 21.68 | 20 | 108 | | 20 | 20 | 100 | | 20 | 8.05 | |
| Trichloroethene | 79-123 | 1 | 0.8273 | 23.38 | 20 | 113 | | 21.43 | 20 | 103 | | 20 | 8.69 | |
| Trichlorofluoromethane | 65-141 | 1 | 0 | 26.23 | 20 | 131 | | 24.14 | 20 | 121 | | 20 | 8.28 | |
| Vinyl chloride | 58-137 | 1 | 0 | 25.45 | 20 | 127 | | 22.55 | 20 | 113 | | 20 | 12.1 | |

Q - %Recovery / RPD Flag  * - %Recovery / RPD Outside Limits  OL - Outside Limits  %R - %Recovery  DF - Dilution Factor  Amt - Amount (weight or volume)

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Form 3B

# Laboratory Control Sample Recovery

## Volatiles by EPA 8260

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/23/2023

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 /Site18/24

Workorder
**HS23060999**

SAMPLENUM
VLCSW-230617

## Volatiles by EPA 8260

| VOA6_439205 | | | VLCSW-230617 | | | |
|---|---|---|---|---|---|---|
| **Spike Matrix** | Aqueous | | **Run Date** | 06/17/23 | | |
| **Result Units** | ug/L | | **Run Time** | 12:40 | | |
| | | | **Data File** | X061705.D | | |
| Analyte | %Recovery Limits | Spike Added | LCS Result | %R | Q | |
| 1,1,1,2-Tetrachloroethane | 78-124 | 20 | 19.12 | 96 | | |
| 1,1,1-Trichloroethane | 74-131 | 20 | 19.15 | 96 | | |
| 1,1,2,2-Tetrachloroethane | 71-121 | 20 | 18.86 | 94 | | |
| 1,1,2-Trichloroethane | 80-119 | 20 | 19.18 | 96 | | |
| 1,1-Dichloroethane | 77-125 | 20 | 19.68 | 98 | | |
| 1,1-Dichloroethene | 71-131 | 20 | 18.91 | 95 | | |
| 1,1-Dichloropropene | 78-125 | 20 | 19.35 | 97 | | |
| 1,2,3-Trichlorobenzene | 69-129 | 20 | 19.91 | 100 | | |
| 1,2,3-Trichloropropane | 73-122 | 20 | 20.1 | 101 | | |
| 1,2,4-Trichlorobenzene | 69-130 | 20 | 19.27 | 96 | | |
| 1,2,4-Trimethylbenzene | 76-124 | 20 | 19.42 | 97 | | |
| 1,2-Dibromo-3-chloropropane | 62-128 | 20 | 20.01 | 100 | | |
| 1,2-Dibromoethane | 77-121 | 20 | 19.49 | 97 | | |
| 1,2-Dichlorobenzene | 80-119 | 20 | 19.13 | 96 | | |
| 1,2-Dichloroethane | 73-128 | 20 | 20.27 | 101 | | |
| 1,2-Dichloropropane | 78-122 | 20 | 19.87 | 99 | | |
| 1,3,5-Trimethylbenzene | 75-124 | 20 | 19.19 | 96 | | |
| 1,3-Dichlorobenzene | 80-119 | 20 | 18.98 | 95 | | |
| 1,3-Dichloropropane | 80-119 | 20 | 19.64 | 98 | | |
| 1,4-Dichlorobenzene | 79-118 | 20 | 18.82 | 94 | | |
| 2,2-Dichloropropane | 60-139 | 20 | 21.02 | 105 | | |
| 2-Butanone | 56-143 | 40 | 36.49 | 91 | | |
| 2-Chlorotoluene | 79-122 | 20 | 19.13 | 96 | | |
| 2-Hexanone | 57-139 | 40 | 41.8 | 105 | | |
| 4-Chlorotoluene | 78-122 | 20 | 19.81 | 99 | | |
| 4-Isopropyltoluene | 77-127 | 20 | 19.11 | 96 | | |
| 4-Methyl-2-pentanone | 67-130 | 40 | 39.82 | 100 | | |
| Acetone | 39-160 | 40 | 36.87 | 92 | | |
| Benzene | 79-120 | 20 | 19.05 | 95 | | |
| Bromobenzene | 80-120 | 20 | 18.64 | 93 | | |
| Bromochloromethane | 78-123 | 20 | 19.56 | 98 | | |
| Bromodichloromethane | 79-125 | 20 | 19.21 | 96 | | |
| Bromoform | 66-130 | 20 | 18.99 | 95 | | |
| Bromomethane | 53-141 | 20 | 20.25 | 101 | | |

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

# Form 3B - Laboratory Control Sample Recovery

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

SAMPLENUM
VLCSW-230617

## Volatiles by EPA 8260

| VOA6_439205 | | | VLCSW-230617 | | | |
|---|---|---|---|---|---|---|
| **Spike Matrix** Aqueous | | **Run Date** | 06/17/23 | | | |
| **Result Units** ug/L | | **Run Time** | 12:40 | | | |
| | | **Data File** | X061705.D | | | |
| Analyte | %Recovery Limits | Spike Added | LCS Result | %R | Q | |
| Carbon disulfide | 64-133 | 40 | 37.45 | 94 | | |
| Carbon tetrachloride | 72-136 | 20 | 18.74 | 94 | | |
| Chlorobenzene | 82-118 | 20 | 19.48 | 97 | | |
| Chloroethane | 60-138 | 20 | 20.93 | 105 | | |
| Chloroform | 79-124 | 20 | 19.27 | 96 | | |
| Chloromethane | 50-139 | 20 | 20.82 | 104 | | |
| cis-1,2-Dichloroethene | 78-123 | 20 | 19.37 | 97 | | |
| cis-1,3-Dichloropropene | 75-124 | 20 | 19.89 | 100 | | |
| Dibromochloromethane | 74-126 | 20 | 19.35 | 97 | | |
| Dibromomethane | 79-123 | 20 | 19.87 | 99 | | |
| Dichlorodifluoromethane | 32-152 | 20 | 19.87 | 99 | | |
| Ethylbenzene | 79-121 | 20 | 19.08 | 95 | | |
| Hexachlorobutadiene | 66-134 | 20 | 18.29 | 92 | | |
| Isopropylbenzene | 72-131 | 20 | 19.19 | 96 | | |
| m,p-Xylene | 80-121 | 40 | 39.74 | 99 | | |
| Methylene chloride | 74-124 | 20 | 19.29 | 96 | | |
| Naphthalene | 61-128 | 20 | 19.76 | 99 | | |
| n-Butylbenzene | 75-128 | 20 | 20.02 | 100 | | |
| n-Propylbenzene | 76-126 | 20 | 19.5 | 98 | | |
| o-Xylene | 78-122 | 20 | 19.28 | 96 | | |
| sec-Butylbenzene | 77-126 | 20 | 18.75 | 94 | | |
| Styrene | 78-123 | 20 | 19.92 | 100 | | |
| tert-Butylbenzene | 78-124 | 20 | 18.77 | 94 | | |
| Tetrachloroethene | 74-129 | 20 | 18.59 | 93 | | |
| Toluene | 80-121 | 20 | 19.64 | 98 | | |
| trans-1,2-Dichloroethene | 75-124 | 20 | 18.78 | 94 | | |
| trans-1,3-Dichloropropene | 73-127 | 20 | 19.98 | 100 | | |
| Trichloroethene | 79-123 | 20 | 18.91 | 95 | | |
| Trichlorofluoromethane | 65-141 | 20 | 19.71 | 98 | | |
| Vinyl chloride | 58-137 | 20 | 19.32 | 97 | | |

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

# Form 3B - Laboratory Control Sample Recovery

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

SAMPLENUM
VLCSW-230619

## Volatiles by EPA 8260

| VOA6_439273 | | | VLCSW-230619 | | | |
|---|---|---|---|---|---|---|
| **Spike Matrix** | Aqueous | | **Run Date** | 06/19/23 | | |
| **Result Units** | ug/L | | **Run Time** | 12:02 | | |
| | | | **Data File** | X061905.D | | |
| **Analyte** | **%Recovery Limits** | **Spike Added** | **LCS Result** | **%R** | **Q** | |
| 1,1,1,2-Tetrachloroethane | 78-124 | 20 | 19.46 | 97 | | |
| 1,1,1-Trichloroethane | 74-131 | 20 | 20.24 | 101 | | |
| 1,1,2,2-Tetrachloroethane | 71-121 | 20 | 17.78 | 89 | | |
| 1,1,2-Trichloroethane | 80-119 | 20 | 19.4 | 97 | | |
| 1,1-Dichloroethane | 77-125 | 20 | 20.1 | 100 | | |
| 1,1-Dichloroethene | 71-131 | 20 | 22.11 | 111 | | |
| 1,1-Dichloropropene | 78-125 | 20 | 19.92 | 100 | | |
| 1,2,3-Trichlorobenzene | 69-129 | 20 | 18.26 | 91 | | |
| 1,2,3-Trichloropropane | 73-122 | 20 | 18.48 | 92 | | |
| 1,2,4-Trichlorobenzene | 69-130 | 20 | 18.59 | 93 | | |
| 1,2,4-Trimethylbenzene | 76-124 | 20 | 19.31 | 97 | | |
| 1,2-Dibromo-3-chloropropane | 62-128 | 20 | 17.37 | 87 | | |
| 1,2-Dibromoethane | 77-121 | 20 | 19.7 | 98 | | |
| 1,2-Dichlorobenzene | 80-119 | 20 | 19.56 | 98 | | |
| 1,2-Dichloroethane | 73-128 | 20 | 20.49 | 102 | | |
| 1,2-Dichloropropane | 78-122 | 20 | 19.68 | 98 | | |
| 1,3,5-Trimethylbenzene | 75-124 | 20 | 19.38 | 97 | | |
| 1,3-Dichlorobenzene | 80-119 | 20 | 18.62 | 93 | | |
| 1,3-Dichloropropane | 80-119 | 20 | 19.51 | 98 | | |
| 1,4-Dichlorobenzene | 79-118 | 20 | 19.57 | 98 | | |
| 2,2-Dichloropropane | 60-139 | 20 | 22.44 | 112 | | |
| 2-Butanone | 56-143 | 40 | 36.82 | 92 | | |
| 2-Chlorotoluene | 79-122 | 20 | 18.36 | 92 | | |
| 2-Hexanone | 57-139 | 40 | 38.03 | 95 | | |
| 4-Chlorotoluene | 78-122 | 20 | 19.87 | 99 | | |
| 4-Isopropyltoluene | 77-127 | 20 | 19.49 | 98 | | |
| 4-Methyl-2-pentanone | 67-130 | 40 | 38.6 | 96 | | |
| Acetone | 39-160 | 40 | 44.2 | 110 | | |
| Benzene | 79-120 | 20 | 19.29 | 96 | | |
| Bromobenzene | 80-120 | 20 | 18.6 | 93 | | |
| Bromochloromethane | 78-123 | 20 | 19.6 | 98 | | |
| Bromodichloromethane | 79-125 | 20 | 19.77 | 99 | | |
| Bromoform | 66-130 | 20 | 19.2 | 96 | | |
| Bromomethane | 53-141 | 20 | 23.18 | 116 | | |

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

# Form 3B - Laboratory Control Sample Recovery

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

SAMPLENUM
VLCSW-230619

## Volatiles by EPA 8260

| VOA6_439273 | | | VLCSW-230619 | | | |
|---|---|---|---|---|---|---|
| **Spike Matrix** | Aqueous | **Run Date** | 06/19/23 | | | |
| **Result Units** | ug/L | **Run Time** | 12:02 | | | |
| | | **Data File** | X061905.D | | | |
| Analyte | %Recovery Limits | Spike Added | LCS Result | %R | Q | |
| Carbon disulfide | 64-133 | 40 | 38.36 | 96 | | |
| Carbon tetrachloride | 72-136 | 20 | 19.61 | 98 | | |
| Chlorobenzene | 82-118 | 20 | 20.03 | 100 | | |
| Chloroethane | 60-138 | 20 | 22.8 | 114 | | |
| Chloroform | 79-124 | 20 | 19.61 | 98 | | |
| Chloromethane | 50-139 | 20 | 23.51 | 118 | | |
| cis-1,2-Dichloroethene | 78-123 | 20 | 19.73 | 99 | | |
| cis-1,3-Dichloropropene | 75-124 | 20 | 20.06 | 100 | | |
| Dibromochloromethane | 74-126 | 20 | 19.14 | 96 | | |
| Dibromomethane | 79-123 | 20 | 20.31 | 102 | | |
| Dichlorodifluoromethane | 32-152 | 20 | 19.64 | 98 | | |
| Ethylbenzene | 79-121 | 20 | 19.5 | 98 | | |
| Hexachlorobutadiene | 66-134 | 20 | 19.17 | 96 | | |
| Isopropylbenzene | 72-131 | 20 | 19.72 | 99 | | |
| m,p-Xylene | 80-121 | 40 | 42.21 | 106 | | |
| Methylene chloride | 74-124 | 20 | 18.94 | 95 | | |
| Naphthalene | 61-128 | 20 | 17.78 | 89 | | |
| n-Butylbenzene | 75-128 | 20 | 21.17 | 106 | | |
| n-Propylbenzene | 76-126 | 20 | 18.92 | 95 | | |
| o-Xylene | 78-122 | 20 | 19.47 | 97 | | |
| sec-Butylbenzene | 77-126 | 20 | 18.59 | 93 | | |
| Styrene | 78-123 | 20 | 21.13 | 106 | | |
| tert-Butylbenzene | 78-124 | 20 | 18.33 | 92 | | |
| Tetrachloroethene | 74-129 | 20 | 19.06 | 95 | | |
| Toluene | 80-121 | 20 | 19.74 | 99 | | |
| trans-1,2-Dichloroethene | 75-124 | 20 | 19.67 | 98 | | |
| trans-1,3-Dichloropropene | 73-127 | 20 | 20.09 | 100 | | |
| Trichloroethene | 79-123 | 20 | 19.58 | 98 | | |
| Trichlorofluoromethane | 65-141 | 20 | 22.7 | 114 | | |
| Vinyl chloride | 58-137 | 20 | 22.44 | 112 | | |

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 4

# Method Blank Summary

## Volatiles by EPA 8260

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/23/2023

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 /Site18/24

Workorder
**HS23060999**

## Volatiles by EPA 8260

| Client Sample ID | Type | Lab Sample ID | File ID | Date Analyzed | Run ID |
|---|---|---|---|---|---|
| METHOD BLANK | MBLK | VBLKW-230617 | X061707.D | 06/17/23 13:23 | VOA6_439205 |
| VLCSW-230617 | LCS | VLCSW-230617 | X061705.D | 06/17/23 12:40 | VOA6_439205 |
| BatchQC | MS | HS23060722-05MS | X061710.D | 06/17/23 14:26 | VOA6_439205 |
| BatchQC | MSD | HS23060722-05MSD | X061711.D | 06/17/23 14:47 | VOA6_439205 |
| 102_061323 | SAMP | HS23060999-01 | X061724.D | 06/17/23 19:20 | VOA6_439205 |
| 18CPTMW03SW_061323 | SAMP | HS23060999-02 | X061725.D | 06/17/23 19:41 | VOA6_439205 |
| 18CPTMW22DW_061323 | SAMP | HS23060999-05 | X061726.D | 06/17/23 20:02 | VOA6_439205 |
| 18CPTMW22R_061323 | SAMP | HS23060999-06 | X061727.D | 06/17/23 20:23 | VOA6_439205 |

# Form 4 - Method Blank Summary

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

## Volatiles by EPA 8260

| Client Sample ID | Type | Lab Sample ID | File ID | Date Analyzed | Run ID |
|---|---|---|---|---|---|
| METHOD BLANK | MBLK | VBLKW-230619 | X061907.D | 06/19/23 12:44 | VOA6_439273 |
| VLCSW-230619 | LCS | VLCSW-230619 | X061905.D | 06/19/23 12:02 | VOA6_439273 |
| Trip Blank | SAMP | HS23060999-08 | X061908.D | 06/19/23 13:05 | VOA6_439273 |
| 18CPTMW22SW_061323 | SAMP | HS23060999-07 | X061909.D | 06/19/23 13:26 | VOA6_439273 |
| MW14_061323 | SAMP | HS23060999-04 | X061910.D | 06/19/23 13:47 | VOA6_439273 |
| MW14_061323 | SAMP | HS23060999-04 | X061911.D | 06/19/23 14:08 | VOA6_439273 |
| 120_061323 | SAMP | HS23060999-03 | X061912.D | 06/19/23 14:29 | VOA6_439273 |
| 18CPTMW22SW_061323 | MS | HS23060999-07MS | X061913.D | 06/19/23 14:50 | VOA6_439273 |
| 18CPTMW22SW_061323 | MSD | HS23060999-07MSD | X061914.D | 06/19/23 15:12 | VOA6_439273 |
| 120_061323 | SAMP | HS23060999-03 | X061915.D | 06/19/23 15:33 | VOA6_439273 |

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Form 5

# Instrument Performance Check

## Volatiles by EPA 8260

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/23/2023

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 - Instrument Performance Check

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

RunID
VOA6-438076

## Volatiles by EPA 8260

**Tune File** X061501.D 06/15/23 6/15/2023

| m / e | Ion Abundance Criterion | %RA |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 18.6 (18.6) |
| 75 | 30.0 - 60.0% of mass 95 | 48.4 (48.4) |
| 95 | Base peak, 100% RA | 100 (100) |
| 96 | 5.0 - 9.0% of mass 95 | 7.1 (7.1) |
| 173 | Less than 2.0% of mass 174 | 0.6 (0.74) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 78.8 (78.8) |
| 175 | 4.0 - 9.0% of mass 174 | 6.3 (8.04) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 78 (99.1) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.8 (7.46) 2 |

%RA - Percent Relative Abundance

This check applies to the following analyses

| | Lab Samp ID | Type | Date Analyzed | Lab File ID | Sample ID |
|---|---|---|---|---|---|
| 1 | VSTD000.25 | ICAL1 | 6/15/2023 | X061502 | VSTD000.25 |
| 2 | VSTD000.5 | ICAL2 | 6/15/2023 | X061503 | VSTD000.5 |
| 3 | VSTD001 | ICAL3 | 6/15/2023 | X061504 | VSTD001 |
| 4 | VSTD002 | ICAL4 | 6/15/2023 | X061505 | VSTD002 |
| 5 | VSTD005 | ICAL5 | 6/15/2023 | X061506 | VSTD005 |
| 6 | VSTD020 | ICAL6 | 6/15/2023 | X061507 | VSTD020 |
| 7 | VSTD050 | ICAL7 | 6/15/2023 | X061508 | VSTD050 |
| 8 | VSTD100 | ICAL8 | 6/15/2023 | X061509 | VSTD100 |
| 9 | VSTD150 | ICAL9 | 6/15/2023 | X061510 | VSTD150 |
| 10 | VSTD200 | ICAL | 6/15/2023 | X061511 | VSTD200 |
| 11 | CCV | ICV | 6/15/2023 | X061514 | CCV |

# Form 5 - Instrument Performance Check

| | | | |
|---|---|---|---|
| **Client** | Bhate Environmental Associates, Inc. | Workorder | |
| **Project** | LHAAP /Site18/24 | **HS23060999** | |

## Volatiles by EPA 8260

RunID: VOA6-438076

| | | | |
|---|---|---|---|
| **Tune File** | X061501.D | 06/15/23 6/15/2023 | This check applies to the following analyses |

# Form 5 - Instrument Performance Check

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

RunID
VOA6-439205

## Volatiles by EPA 8260

**Tune File** X061701.D 06/17/23 6/17/2023

| m / e | Ion Abundance Criterion | %RA |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 16 (16) |
| 75 | 30.0 - 60.0% of mass 95 | 44.8 (44.8) |
| 95 | Base peak, 100% RA | 100 (100) |
| 96 | 5.0 - 9.0% of mass 95 | 7.2 (7.18) |
| 173 | Less than 2.0% of mass 174 | 0.5 (0.634) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 81.9 (81.9) |
| 175 | 4.0 - 9.0% of mass 174 | 5.9 (7.18) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 78 (95.2) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.6 (7.13) 2 |

%RA - Percent Relative Abundance

This check applies to the following analyses

| | Lab Samp ID | Type | Date Analyzed | Lab File ID | Sample ID |
|---|---|---|---|---|---|
| 1 | CCV | CCV | 6/17/2023 | X061703 | CCV |
| 2 | CCB | CCB | 6/17/2023 | X061704 | CCB |
| 3 | VLCSW- | LCS | 6/17/2023 | X061705 | VLCSW-230617 |
| 4 | VBLKW- | MBLK | 6/17/2023 | X061707 | VBLKW-230617 |
| 5 | HS23060722- | MS | 6/17/2023 | X061710 | ZZZZZZMS |
| 6 | HS23060722- | MSD | 6/17/2023 | X061711 | ZZZZZZMSD |
| 7 | HS23060999- | SAMP | 6/17/2023 | X061724 | 102_061323 |
| 8 | HS23060999- | SAMP | 6/17/2023 | X061725 | 18CPTMW03SW_061323 |
| 9 | HS23060999- | SAMP | 6/17/2023 | X061726 | 18CPTMW22DW_061323 |
| 10 | HS23060999- | SAMP | 6/17/2023 | X061727 | 18CPTMW22R_061323 |
| 11 | CCV-END | CCV_EN | 6/17/2023 | X061731 | CCV-END |

# Form 5 - Instrument Performance Check

| | | | |
|---|---|---|---|
| **Client** | Bhate Environmental Associates, Inc. | Workorder | |
| **Project** | LHAAP /Site18/24 | **HS23060999** | |

## Volatiles by EPA 8260

RunID: VOA6-439205

| | | | |
|---|---|---|---|
| **Tune File** | X061701.D | 06/17/23 6/17/2023 | **This check applies to the following analyses** |

# Form 5 - Instrument Performance Check

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

RunID
VOA6-439273

## Volatiles by EPA 8260

**Tune File** X061901.D 06/19/23 6/19/2023

| m / e | Ion Abundance Criterion | %RA |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 16.8 (16.8) |
| 75 | 30.0 - 60.0% of mass 95 | 47.5 (47.5) |
| 95 | Base peak, 100% RA | 100 (100) |
| 96 | 5.0 - 9.0% of mass 95 | 6.9 (6.93) |
| 173 | Less than 2.0% of mass 174 | 0.6 (0.77) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 81.9 (81.9) |
| 175 | 4.0 - 9.0% of mass 174 | 5.6 (6.88) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 80.8 (98.6) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.7 (7.1) 2 |

%RA - Percent Relative Abundance

This check applies to the following analyses

| | Lab Samp ID | Type | Date Analyzed | Lab File ID | Sample ID |
|---|---|---|---|---|---|
| 1 | CCV | CCV | 6/19/2023 | X061903 | CCV |
| 2 | CCB | CCB | 6/19/2023 | X061904 | CCB |
| 3 | VLCSW- | LCS | 6/19/2023 | X061905 | VLCSW-230619 |
| 4 | VBLKW- | MBLK | 6/19/2023 | X061907 | VBLKW-230619 |
| 5 | HS23060999- | SAMP | 6/19/2023 | X061908 | Trip Blank |
| 6 | HS23060999- | SAMP | 6/19/2023 | X061909 | 18CPTMW22SW_061323 |
| 7 | HS23060999- | SAMP | 6/19/2023 | X061910 | MW14_061323 |
| 8 | HS23060999- | SAMP | 6/19/2023 | X061911 | MW14_061323 |
| 9 | HS23060999- | SAMP | 6/19/2023 | X061912 | 120_061323 |
| 10 | HS23060999- | MS | 6/19/2023 | X061913 | HS23060999-07MS |
| 11 | HS23060999- | MSD | 6/19/2023 | X061914 | HS23060999-07MSD |
| 12 | HS23060999- | SAMP | 6/19/2023 | X061915 | 120_061323 |
| 13 | CCV-END | CCV_EN | 6/19/2023 | X061916 | CCV-END |

# Form 5 - Instrument Performance Check

| | | | |
|---|---|---|---|
| **Client** | Bhate Environmental Associates, Inc. | Workorder | |
| **Project** | LHAAP /Site18/24 | **HS23060999** | |

RunID

## Volatiles by EPA 8260

VOA6-439273

| | | | |
|---|---|---|---|
| **Tune File** | X061901.D | 06/19/23 6/19/2023 | **This check applies to the following analyses** |

01195338

right solutions.
right partner.

Form 6

# Initial Calibration Data

# Volatiles by EPA 8260

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/23/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_438076

## Volatiles by EPA 8260

**Calibration Files**

**Level 1**..target\chem\voa6.i\x230615.b\x061502.d **Level 5**..target\chem\voa6.i\x230615.b\x061506.d
**Level 2**..target\chem\voa6.i\x230615.b\x061503.d **Level 6**..target\chem\voa6.i\x230615.b\x061507.d
**ICAL Start Date** 15-JUN-2023 1115 **Level 3**..target\chem\voa6.i\x230615.b\x061504.d **Level 7**..target\chem\voa6.i\x230615.b\x061508.d **Level 9**..target\chem\voa6.i\x230615.b\x061510.d
**ICAL End Date** 15-JUN-2023 1445 **Level 4**..target\chem\voa6.i\x230615.b\x061505.d **Level 8**..target\chem\voa6.i\x230615.b\x061509.d **Level 10**target\chem\voa6.i\x230615.b\x061511.d

| Compound | 0.250 Level 1 | 0.500 Level 2 | 1.00 Level 3 | 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50.00 Level 7 | 100.00 Level 8 | 150.00 Level 9 | 200.00 Level 10 | | | | | | | | |
| **Dichlorodifluoromethane** | NE | 2615 | 4505 | 9827 | 21019 | 86585 | | | | | | |
| | 197396 | 431897 | 640204 | 870731 | | | LINR | 0.00663 | 0.43345 | | 0.99964 | |
| **Chloromethane** | NE | 3301 | 5922 | 11295 | 25651 | 97329 | | | | | | |
| | 241131 | 524590 | 786709 | 1090387 | | | LINR | 0.02054 | 0.53963 | | 0.99929 | |
| **Propionitrile** | NE | 0.05455 | 0.06270 | 0.05541 | 0.06089 | 0.06358 | | | | | | |
| | 0.06176 | 0.06051 | 0.06246 | 0.06236 | | | AVRG | | 0.06047 | | 5.37976 | |
| **Vinyl Chloride** | NE | 0.60687 | 0.54795 | 0.57402 | 0.48951 | 0.50986 | | | | | | |
| | 0.48769 | 0.50556 | 0.50115 | 0.50335 | | | AVRG | | 0.52511 | | 7.94630 | |
| **Bromomethane** | NE | 0.33537 | 0.33175 | 0.32542 | 0.29769 | 0.28007 | | | | | | |
| | 0.27989 | 0.29094 | 0.29103 | 0.28060 | | | AVRG | | 0.30142 | | 7.63157 | |
| **Chloroethane** | NE | 0.37220 | 0.33836 | 0.32964 | 0.31503 | 0.31792 | | | | | | |
| | 0.30426 | 0.30884 | 0.30484 | 0.29773 | | | AVRG | | 0.32098 | | 7.20024 | |
| **Trichlorofluoromethane** | NE | 0.70569 | 0.65920 | 0.69163 | 0.58830 | 0.59980 | | | | | | |
| | 0.55345 | 0.60431 | 0.60479 | 0.60887 | | | AVRG | | 0.62401 | | 8.07463 | |
| **Acrolein** | NE | 0.03568 | 0.02823 | 0.02994 | 0.03064 | 0.02991 | | | | | | |
| | 0.02794 | 0.03158 | 0.03279 | 0.03252 | | | AVRG | | 0.03103 | | 7.82710 | |
| **Acetone** | NE | 2789 | 4663 | 7818 | 16276 | 54363 | | | | | | |
| | 120180 | 254517 | 376478 | 532376 | | | LINR | -0.00544 | 0.13002 | | 0.99878 | |
| **1,1-Dichloroethene** | NE | 0.45895 | 0.44657 | 0.41881 | 0.37605 | 0.36786 | | | | | | |
| | 0.35517 | 0.36783 | 0.36468 | 0.36713 | | | AVRG | | 0.39145 | | 10.02453 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_438076

## Volatiles by EPA 8260

**ICAL Start Date** 15-JUN-2023 1115 **ICAL End Date** 15-JUN-2023 1445



| Compound | 0.250 Level 1 | 0.500 Level 2 | 1.00 Level 3 | 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | 50.00 Level 7 | 100.00 Level 8 | 150.00 Level 9 | 200.00 Level 10 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Isobutyl Alcohol** | 0.06440 | 0.06398 | 0.06447 | 0.06514 | 0.07003 | 0.06902 | NE | 0.05685 | 0.06692 | 0.06596 | AVRG | | 0.06519 | | 5.78524 | |
| **Acetonitrile** | 0.04861 | 0.04885 | 0.05012 | 0.04863 | 0.05074 | 0.04825 | NE | 0.04721 | 0.04408 | 0.05000 | AVRG | | 0.04850 | | 4.07759 | |
| **Allyl Chloride** | 1.08770 | 1.08886 | 1.11033 | 1.08781 | 1.11392 | 1.08331 | NE | 1.16902 | 1.04930 | 1.07830 | AVRG | | 1.09651 | | 3.00701 | |
| **Iodomethane** | 622671 | 1361652 | 1987305 | 2762966 | 43988 | 223261 | NE | 2984 | 6227 | 14998 | QUAD | 0.04643 | 1.52252 | -0.01414 | 0.99955 | |
| **Acrylonitrile** | 0.15374 | 0.15959 | 0.16440 | 0.16394 | 0.15489 | 0.16196 | NE | 0.16498 | 0.14851 | 0.15637 | AVRG | | 0.15871 | | 3.58694 | |
| **Methylene Chloride** | 0.50432 | 0.49542 | 0.48937 | 0.48228 | 0.60779 | 0.53053 | NE | 0.65930 | 0.67977 | 0.52763 | AVRG | | 0.55293 | | 13.75211 | |
| **Methyl tert-butyl ether** | 1.31513 | 1.29341 | 1.32919 | 1.30180 | 1.37915 | 1.33784 | NE | 1.51541 | 1.35429 | 1.47005 | AVRG | | 1.36625 | | 5.64492 | |
| **Carbon Disulfide** | 1.27200 | 1.32682 | 1.37989 | 1.39563 | 1.31193 | 1.32063 | NE | 1.58729 | 1.49094 | 1.45947 | AVRG | | 1.39384 | | 7.29728 | |
| **trans-1,2-Dichloroethene** | 0.43392 | 0.44333 | 0.44594 | 0.44153 | 0.44892 | 0.44795 | NE | 0.54737 | 0.51101 | 0.49568 | AVRG | | 0.46841 | | 8.48506 | |
| **Vinyl Acetate** | 1.30590 | 1.23968 | 1.24313 | 1.19252 | 1.30406 | 1.36566 | NE | 1.14998 | 1.31997 | 1.13084 | AVRG | | 1.25019 | | 6.44761 | |
| **1,1-Dichloroethane** | 0.79188 | 0.80903 | 0.79801 | 0.79485 | 0.81735 | 0.82215 | NE | 0.96555 | 0.89576 | 0.89979 | AVRG | | 0.84382 | | 7.28399 | |
| **Chloroprene** | 0.14920 | 0.16266 | 0.15820 | 0.16101 | 0.16299 | 0.15462 | NE | 0.19494 | 0.15806 | 0.19402 | AVRG | | 0.16619 | | 9.98603 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_438076

## Volatiles by EPA 8260

**ICAL Start Date** 15-JUN-2023 1115 **ICAL End Date** 15-JUN-2023 1445



| Compound | 50.00 Level 7 / 0.250 Level 1 | 100.00 Level 8 / 0.500 Level 2 | 150.00 Level 9 / 1.00 Level 3 | 200.00 Level 10 / 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2-Butanone** | NE | 0.15780 | 0.15585 | 0.16329 | 0.13672 | 0.15713 | | | | | | |
| | 0.16847 | 0.17739 | 0.17973 | 0.18455 | | | AVRG | | 0.16455 | | 9.02144 | |
| **Methacrylonitrile** | NE | 0.45084 | 0.47260 | 0.34475 | 0.41093 | 0.41229 | | | | | | |
| | 0.41001 | 0.39816 | 0.40753 | 0.40591 | | | AVRG | | 0.41256 | | 8.55015 | |
| **2,2-Dichloropropane** | NE | 4078 | 7438 | 15188 | 33630 | 134641 | | | | | | |
| | 313511 | 661036 | 998442 | 1330788 | | | LINR | -0.00010 | 0.66582 | | 0.99984 | |
| **cis-1,2-Dichloroethene** | NE | 0.63371 | 0.59203 | 0.54477 | 0.52201 | 0.52031 | | | | | | |
| | 0.51032 | 0.51263 | 0.51321 | 0.51241 | | | AVRG | | 0.54016 | | 8.10440 | |
| **Chloroform** | NE | 1.06707 | 1.04857 | 1.00209 | 0.89839 | 0.85930 | | | | | | |
| | 0.83554 | 0.82576 | 0.82364 | 0.81356 | | | AVRG | | 0.90821 | | 11.31143 | |
| **Bromochloromethane** | NE | 0.31540 | 0.32241 | 0.31702 | 0.28759 | 0.27231 | | | | | | |
| | 0.26932 | 0.26813 | 0.27038 | 0.26796 | | | AVRG | | 0.28784 | | 8.22049 | |
| **1,1,1-Trichloroethane** | NE | 0.86069 | 0.78052 | 0.80161 | 0.68231 | 0.70420 | | | | | | |
| | 0.65869 | 0.69751 | 0.70708 | 0.71389 | | | AVRG | | 0.73406 | | 8.94326 | |
| **1,1-Dichloropropene** | NE | 0.48495 | 0.39369 | 0.45740 | 0.41202 | 0.40033 | | | | | | |
| | 0.38290 | 0.40900 | 0.41695 | 0.41345 | | | AVRG | | 0.41897 | | 7.68787 | |
| **1,2-Dichloroethane** | NE | 0.50041 | 0.44494 | 0.39189 | 0.41620 | 0.41114 | | | | | | |
| | 0.40659 | 0.40754 | 0.41027 | 0.38937 | | | AVRG | | 0.41982 | | 8.13871 | |
| **Carbon Tetrachloride** | NE | 0.48305 | 0.40420 | 0.43692 | 0.38136 | 0.37897 | | | | | | |
| | 0.35611 | 0.38889 | 0.39879 | 0.39810 | | | AVRG | | 0.40293 | | 9.22126 | |
| **Benzene** | NE | 1.43274 | 1.39866 | 1.32317 | 1.21650 | 1.23632 | | | | | | |
| | 1.21772 | 1.25333 | 1.25530 | 1.24146 | | | AVRG | | 1.28613 | | 6.24204 | |
| **Trichloroethene** | NE | 0.38877 | 0.35052 | 0.38059 | 0.34683 | 0.34151 | | | | | | |
| | 0.32967 | 0.34715 | 0.35260 | 0.35386 | | | AVRG | | 0.35461 | | 5.25026 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_438076

## Volatiles by EPA 8260

**ICAL Start Date** 15-JUN-2023 1115 **ICAL End Date** 15-JUN-2023 1445



| Compound | 50.00 Level 7 0.250 Level 1 | 100.00 Level 8 0.500 Level 2 | 150.00 Level 9 1.00 Level 3 | 200.00 Level 10 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Bromodichloromethane** | NE<br>0.42719 | 0.51371<br>0.43289 | 0.53585<br>0.43326 | 0.45737<br>0.42742 | 0.43564 | 0.43124 | AVRG | | 0.45495 | | 9.00412 | |
| **Methyl Methacrylate** | NE<br>0.38805 | 0.41027<br>0.38979 | 0.40060<br>0.39545 | 0.33936<br>0.39592 | 0.36954 | 0.39466 | AVRG | | 0.38707 | | 5.41914 | |
| **2-Chloroethylvinyl ether** | NE<br>0.12791 | 0.10601<br>0.12501 | 0.12371<br>0.12617 | 0.12156<br>0.12420 | 0.12156 | 0.13185 | AVRG | | 0.12311 | | 5.82358 | |
| **1,2-Dichloropropane** | NE<br>0.32863 | 0.37996<br>0.33248 | 0.33362<br>0.32951 | 0.33899<br>0.32343 | 0.33720 | 0.33445 | AVRG | | 0.33759 | | 4.90636 | |
| **2-Nitropropane** | NE<br>0.13379 | 0.15541<br>0.13164 | 0.12048<br>0.13757 | 0.12260<br>0.13758 | 0.13928 | 0.13451 | AVRG | | 0.13476 | | 7.53641 | |
| **Dibromomethane** | NE<br>0.20336 | 0.21555<br>0.20193 | 0.23900<br>0.20257 | 0.22439<br>0.19834 | 0.21012 | 0.21202 | AVRG | | 0.21192 | | 6.13059 | |
| **4-Methyl-2-Pentanone** | NE<br>0.32212 | 0.30760<br>0.31184 | 0.33367<br>0.30831 | 0.33070<br>0.31407 | 0.33715 | 0.34142 | AVRG | | 0.32299 | | 4.05223 | |
| **cis-1,3-Dichloropropene** | NE<br>0.54967 | 0.61626<br>0.56034 | 0.56522<br>0.56241 | 0.54409<br>0.55560 | 0.54909 | 0.54586 | AVRG | | 0.56095 | | 3.93014 | |
| **Ethyl Methacrylate** | NE<br>0.31215 | 0.36463<br>0.31567 | 0.39888<br>0.34496 | 0.38425<br>0.35543 | 0.38260 | 0.36686 | AVRG | | 0.35838 | | 8.34634 | |
| **Toluene** | NE<br>1.40762 | 1.68448<br>1.42956 | 1.50279<br>1.42094 | 1.56276<br>1.40372 | 1.38239 | 1.41654 | AVRG | | 1.46787 | | 6.74844 | |
| **trans-1,3-Dichloropropene** | NE<br>0.46653 | 0.47369<br>0.46660 | 0.51235<br>0.47587 | 0.44699<br>0.47465 | 0.44101 | 0.46631 | AVRG | | 0.46933 | | 4.30530 | |
| **2-Hexanone** | NE<br>0.21970 | 0.17351<br>0.21503 | 0.21078<br>0.21508 | 0.22169<br>0.22116 | 0.22767 | 0.23709 | AVRG | | 0.21575 | | 8.17380 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_438076

## Volatiles by EPA 8260

**ICAL Start Date** 15-JUN-2023 1115 **ICAL End Date** 15-JUN-2023 1445



| Compound | 50.00 Level 7 0.250 Level 1 | 100.00 Level 8 0.500 Level 2 | 150.00 Level 9 1.00 Level 3 | 200.00 Level 10 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1,1,2-Trichloroethane** | NE<br>0.27350 | 0.32535<br>0.26982 | 0.29705<br>0.26865 | 0.30791<br>0.26434 | 0.28978 | 0.27731 | AVRG | | 0.28597 | | 7.23925 | |
| **1,3-Dichloropropane** | NE<br>0.56370 | 0.64851<br>0.55661 | 0.60816<br>0.54916 | 0.57702<br>0.54626 | 0.57725 | 0.57717 | AVRG | | 0.57821 | | 5.59903 | |
| **Dibromochloromethane** | NE<br>0.39440 | 0.45130<br>0.39633 | 0.42505<br>0.39869 | 0.41073<br>0.39759 | 0.37918 | 0.39427 | AVRG | | 0.40528 | | 5.26412 | |
| **Tetrachloroethene** | NE<br>0.26936 | 0.33320<br>0.29091 | 0.30082<br>0.30122 | 0.33399<br>0.30164 | 0.29936 | 0.28615 | AVRG | | 0.30185 | | 6.87487 | |
| **1,2-Dibromoethane** | NE<br>0.34611 | 0.42541<br>0.34375 | 0.40286<br>0.34624 | 0.36309<br>0.34502 | 0.36325 | 0.35394 | AVRG | | 0.36552 | | 7.95769 | |
| **1-Chlorohexane** | NE<br>0.27058 | 0.31891<br>0.29451 | 0.30742<br>0.30497 | 0.33602<br>0.30108 | 0.30509 | 0.29798 | AVRG | | 0.30406 | | 5.82966 | |
| **Chlorobenzene** | NE<br>0.95733 | 1.16599<br>0.96191 | 1.05258<br>0.96797 | 1.02315<br>0.96078 | 0.98663 | 0.96310 | AVRG | | 1.00438 | | 6.86694 | |
| **1,1,1,2-Tetrachloroethane** | NE<br>0.35354 | 0.41610<br>0.36178 | 0.40706<br>0.36400 | 0.38381<br>0.36679 | 0.36058 | 0.35698 | AVRG | | 0.37452 | | 6.08083 | |
| **Ethylbenzene** | NE<br>0.48268 | 0.58074<br>0.49951 | 0.54181<br>0.51159 | 0.54627<br>0.50660 | 0.49714 | 0.49091 | AVRG | | 0.51747 | | 6.19763 | |
| **m,p-Xylenes** | NE<br>0.61776 | 0.69775<br>0.63064 | 0.60842<br>0.64151 | 0.65267<br>0.63784 | 0.63943 | 0.61731 | AVRG | | 0.63815 | | 4.13336 | |
| **o-Xylene** | NE<br>0.60231 | 0.68793<br>0.61488 | 0.67177<br>0.61904 | 0.68201<br>0.62117 | 0.62191 | 0.60992 | AVRG | | 0.63677 | | 5.28356 | |
| **Styrene** | NE<br>1.03828 | 1.11203<br>1.04302 | 1.06411<br>1.05857 | 1.03374<br>1.05409 | 1.01012 | 1.02585 | AVRG | | 1.04887 | | 2.76930 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_438076

## Volatiles by EPA 8260

**ICAL Start Date** 15-JUN-2023 1115 **ICAL End Date** 15-JUN-2023 1445



| Compound | 50.00 Level 7 / 0.250 Level 1 | 100.00 Level 8 / 0.500 Level 2 | 150.00 Level 9 / 1.00 Level 3 | 200.00 Level 10 / 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Bromoform** | NE | 0.32157 | 0.28167 | 0.27167 | 0.26654 | 0.27431 | | | | | | |
| | 0.27612 | 0.27809 | 0.28435 | 0.28854 | | | AVRG | | 0.28254 | | 5.68771 | |
| **Isopropylbenzene** | NE | 1.81086 | 1.55188 | 1.65791 | 1.51756 | 1.47991 | | | | | | |
| | 1.45822 | 1.52966 | 1.58026 | 1.57911 | | | AVRG | | 1.57393 | | 6.78027 | |
| **1,1,2,2-Tetrachloroethane** | NE | 1.01343 | 1.04169 | 0.92927 | 0.90463 | 0.86384 | | | | | | |
| | 0.80734 | 0.78646 | 0.78147 | 0.78458 | | | AVRG | | 0.87919 | | 11.37969 | |
| **1,2,3-Trichloropropane** | NE | 0.71376 | 0.64247 | 0.67579 | 0.64682 | 0.69393 | | | | | | |
| | 0.58363 | 0.57749 | 0.56939 | 0.57068 | | | AVRG | | 0.63044 | | 8.99664 | |
| **trans-1,4-Dichloro-2-butene** | NE | 0.12188 | 0.12097 | 0.10883 | 0.11805 | 0.12477 | | | | | | |
| | 0.12201 | 0.12421 | 0.12746 | 0.12711 | | | AVRG | | 0.12170 | | 4.66453 | |
| **n-Propylbenzene** | NE | 3.81139 | 3.04596 | 3.59078 | 3.20535 | 3.24000 | | | | | | |
| | 3.06771 | 3.17546 | 3.24067 | 3.23495 | | | AVRG | | 3.29025 | | 7.59470 | |
| **Bromobenzene** | NE | 0.93832 | 0.84056 | 0.86168 | 0.80430 | 0.78514 | | | | | | |
| | 0.76742 | 0.77052 | 0.78062 | 0.78584 | | | AVRG | | 0.81493 | | 6.90326 | |
| **1,3,5-Trimethylbenzene** | NE | 2.81070 | 2.39182 | 2.56909 | 2.31883 | 2.34509 | | | | | | |
| | 2.24247 | 2.33416 | 2.36164 | 2.35482 | | | AVRG | | 2.41429 | | 7.14055 | |
| **2-Chlorotoluene** | NE | 2.37538 | 2.31498 | 2.30029 | 2.10665 | 2.02743 | | | | | | |
| | 1.91381 | 1.91814 | 1.92712 | 1.92088 | | | AVRG | | 2.08941 | | 9.20889 | |
| **4-Chlorotoluene** | NE | 2.65754 | 2.26290 | 2.51579 | 2.31216 | 2.29693 | | | | | | |
| | 2.20862 | 2.23079 | 2.24646 | 2.24423 | | | AVRG | | 2.33060 | | 6.55345 | |
| **tert-Butylbenzene** | NE | 2.31433 | 1.96015 | 2.20052 | 1.96704 | 1.95151 | | | | | | |
| | 1.82457 | 1.93069 | 1.96746 | 1.98619 | | | AVRG | | 2.01139 | | 7.45137 | |
| **1,2,4-Trimethylbenzene** | NE | 2.82875 | 2.45476 | 2.51264 | 2.34854 | 2.38641 | | | | | | |
| | 2.29724 | 2.35208 | 2.38166 | 2.36035 | | | AVRG | | 2.43582 | | 6.58075 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_438076

## Volatiles by EPA 8260

**ICAL Start Date** 15-JUN-2023 1115 **ICAL End Date** 15-JUN-2023 1445



| Compound | 50.00 Level 7 0.250 Level 1 | 100.00 Level 8 0.500 Level 2 | 150.00 Level 9 1.00 Level 3 | 200.00 Level 10 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **sec-Butylbenzene** | NE<br>2.53422 | 3.32113<br>2.75963 | 2.78825<br>2.84355 | 3.00060<br>2.83927 | 2.74806 | 2.69627 | AVRG | | 2.83678 | | 7.77278 | |
| **p-Isopropyltoluene** | NE<br>2.28631 | 2.76903<br>2.49189 | 2.31617<br>2.52839 | 2.63680<br>2.50601 | 2.40779 | 2.41022 | AVRG | | 2.48362 | | 6.13282 | |
| **1,3-Dichlorobenzene** | NE<br>1.37542 | 1.65871<br>1.42022 | 1.45865<br>1.43696 | 1.47401<br>1.43277 | 1.39591 | 1.40674 | AVRG | | 1.45104 | | 5.76143 | |
| **1,4-Dichlorobenzene** | NE<br>1.45636 | 1.76382<br>1.48340 | 1.68376<br>1.47244 | 1.67915<br>1.46629 | 1.47899 | 1.49407 | AVRG | | 1.55314 | | 7.70609 | |
| **Benzyl Chloride** | NE<br>0.83370 | 0.91627<br>0.87954 | 0.80528<br>0.91703 | 0.71741<br>0.90236 | 0.66903 | 0.79217 | AVRG | | 0.82587 | | 10.76194 | |
| **n-Butylbenzene** | NE<br>2.03494 | 2.22356<br>2.21681 | 1.73994<br>2.25668 | 2.12823<br>2.23717 | 2.08088 | 2.11969 | AVRG | | 2.11532 | | 7.57840 | |
| **1,2-Dichlorobenzene** | NE<br>1.38424 | 1.64703<br>1.40787 | 1.40433<br>1.40761 | 1.51430<br>1.38773 | 1.39669 | 1.40798 | AVRG | | 1.43975 | | 6.03897 | |
| **1,2-Dibromo-3-Chloropropane** | NE<br>57289 | 562<br>117282 | 1184<br>182534 | 2351<br>252682 | 5689 | 22086 | LINR | 0.00523 | 0.14424 | | 0.99979 | |
| **1,2,4-Trichlorobenzene** | NE<br>1.00852 | 1.03201<br>1.05151 | 0.95053<br>1.05450 | 0.92843<br>1.05037 | 0.93678 | 1.00122 | AVRG | | 1.00154 | | 5.09180 | |
| **Hexachlorobutadiene** | NE<br>0.40176 | 0.45496<br>0.46265 | 0.43499<br>0.48062 | 0.47567<br>0.48593 | 0.43999 | 0.40952 | AVRG | | 0.44956 | | 6.74761 | |
| **Naphthalene** | NE<br>2.30432 | 2.52164<br>2.32026 | 1.98002<br>2.30178 | 2.06297<br>2.29116 | 2.15195 | 2.35762 | AVRG | | 2.25463 | | 7.26973 | |
| **1,2,3-Trichlorobenzene** | NE<br>0.91409 | 1.00600<br>0.94320 | 0.82982<br>0.94850 | 0.91549<br>0.93747 | 0.87650 | 0.92316 | AVRG | | 0.92158 | | 5.30458 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_438076

## Volatiles by EPA 8260

**ICAL Start Date** 15-JUN-2023 1115 **ICAL End Date** 15-JUN-2023 1445



| Compound | 50.00 Level 7 0.250 Level 1 | 100.00 Level 8 0.500 Level 2 | 150.00 Level 9 1.00 Level 3 | 200.00 Level 10 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ethyl Acetate** | NE<br>0.48954 | 0.55715<br>0.45908 | 0.55803<br>0.45507 | 0.54813<br>0.45523 | 0.52955 | 0.53528 | AVRG | | 0.50967 | | 8.78368 | |
| **Methyl Acrylate** | NE<br>0.42996 | 0.40444<br>0.42077 | 0.36366<br>0.43604 | 0.41022<br>0.42149 | 0.34054 | 0.41749 | AVRG | | 0.40496 | | 7.88415 | |
| **n-Butanol** | NE<br>116028 | 934<br>246332 | 2023<br>401679 | 3179<br>566916 | 8163 | 42441 | LINR | 1.30216 | 0.01397 | | 0.99668 | |
| **Ethyl Acrylate** | NE<br>533003 | 4696<br>1125305 | 8042<br>1751972 | 14275<br>2344010 | 39998 | 144388 | LINR | 0.04728 | 1.18250 | | 0.99891 | |
| **Cyclohexanone** | NE<br>225144 | 2832<br>470281 | 5123<br>717000 | 11759<br>970775 | 24566 | 91911 | LINR | -0.25984 | 0.02790 | | 0.99996 | |
| **1,4-Dioxane** | 0.00564<br>0.00573 | 0.00561<br>0.00606 | 0.00675<br>0.00618 | 0.00622<br>0.00628 | 0.00612 | 0.00602 | AVRG | | 0.00606 | | 5.64821 | |
| **n-Hexane** | NE<br>208750 | 2120<br>496122 | 4190<br>791040 | 10696<br>NE | 23971 | 95375 | QUAD | -0.00494 | 2.32300 | -0.27911 | 0.99904 | |
| **Freon TF** | NE<br>158688 | 2188<br>355059 | 3869<br>548562 | 8361<br>742502 | 18080 | 69934 | QUAD | 0.00021 | 2.93242 | -0.16774 | 0.99957 | |
| **Methyl Acetate** | NE<br>0.30048 | 0.31498<br>0.29215 | 0.31317<br>0.29784 | 0.26234<br>0.29548 | 0.27837 | 0.30868 | AVRG | | 0.29595 | | 5.72758 | |
| **Methylcyclohexane** | NE<br>0.70648 | 0.63728<br>0.74078 | 0.62017<br>0.77029 | 0.69345<br>0.75370 | 0.69642 | 0.67070 | AVRG | | 0.69881 | | 7.28568 | |
| **Isopropyl alcohol** | NE<br>0.02587 | 0.03027<br>0.02632 | 0.03392<br>0.02742 | 0.02884<br>0.02799 | 0.02722 | 0.02723 | AVRG | | 0.02834 | | 8.70660 | |
| **Amyl alcohol** | NE<br>0.00950 | 0.00862<br>0.00970 | 0.00888<br>0.01042 | 0.00895<br>0.01061 | 0.00779 | 0.00937 | AVRG | | 0.00932 | | 9.45742 | |

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# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_438076

## Volatiles by EPA 8260

**ICAL Start Date** 15-JUN-2023 1115 **ICAL End Date** 15-JUN-2023 1445



| Compound | 50.00 Level 7 0.250 Level 1 | 100.00 Level 8 0.500 Level 2 | 150.00 Level 9 1.00 Level 3 | 200.00 Level 10 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Allyl alcohol** | NE<br>208750 | 2756<br>496122 | 4190<br>791040 | 11222<br>NE | 23971 | 95375 | QUAD | -0.12571 | 46.53375 | -5.61944 | 0.99904 | |
| **4-Methyl-2-pentanol** | NE<br>0.06843 | 0.08471<br>0.06853 | 0.09038<br>0.07488 | 0.09393<br>0.07669 | 0.08353 | 0.07453 | AVRG | | 0.07951 | | 11.48326 | |
| **Tert-butyl alcohol** | NE<br>0.04721 | 0.05620<br>0.04618 | 0.06105<br>0.04794 | 0.05158<br>0.04957 | 0.05225 | 0.05012 | AVRG | | 0.05134 | | 9.20429 | |
| **Diethyl ether** | NE<br>0.30172 | 0.33100<br>0.30182 | 0.32986<br>0.30795 | 0.32506<br>0.29912 | 0.31304 | 0.30966 | AVRG | | 0.31325 | | 3.96667 | |
| **1,3-Butadiene** | NE<br>0.38320 | 0.46769<br>0.40906 | 0.43786<br>0.40982 | 0.43128<br>0.40837 | 0.37829 | 0.40359 | AVRG | | 0.41435 | | 6.69422 | |
| **Cyclohexane** | NE<br>0.55762 | 0.71131<br>0.62652 | 0.61554<br>0.64990 | 0.70135<br>0.66862 | 0.60145 | 0.60394 | AVRG | | 0.63736 | | 7.85586 | |
| **Tetrahydrofuran** | NE<br>0.07355 | 0.07531<br>0.07188 | 0.07084<br>0.07229 | 0.07374<br>0.07204 | 0.06939 | 0.07678 | AVRG | | 0.07287 | | 3.09331 | |
| **alpha-Methylstyrene** | NE<br>1.14972 | 1.32267<br>1.18100 | 1.09879<br>1.20081 | 1.15655<br>1.20136 | 1.15284 | 1.18162 | AVRG | | 1.18282 | | 5.17506 | |
| **Diisopropyl ether** | NE<br>1.44796 | 1.70619<br>1.43897 | 1.46103<br>1.45103 | 1.46501<br>1.40305 | 1.45974 | 1.43875 | AVRG | | 1.47464 | | 6.02123 | |
| **Dichlorofluoromethane** | NE<br>0.67939 | 0.84072<br>0.69933 | 0.68197<br>0.70668 | 0.80782<br>0.68931 | 0.69537 | 0.66668 | AVRG | | 0.71858 | | 8.57276 | |
| **Propylene oxide** | NE<br>0.03660 | NE<br>0.03513 | 0.05463<br>NE | 0.05586<br>NE | 0.04243 | 0.04133 | AVRG | | 0.04433 | | 20.07401 | * |
| **3-Methyl-1-butanol** | NE<br>125842 | 1270<br>266062 | 2518<br>427718 | 3850<br>594725 | 10033 | 52635 | LINR | 0.70832 | 0.00998 | | 0.99878 | |

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# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_438076

## Volatiles by EPA 8260

**ICAL Start Date** 15-JUN-2023 1115 **ICAL End Date** 15-JUN-2023 1445



| Compound | 50.00 Level 7 / 0.250 Level 1 | 100.00 Level 8 / 0.500 Level 2 | 150.00 Level 9 / 1.00 Level 3 | 200.00 Level 10 / 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Butyl acrylate** | NE<br>512904 | 1843<br>1042036 | 6899<br>1639896 | 19207<br>2199388 | 48821 | 203667 | LINR | 0.01097 | 0.74717 | | 0.99973 | |
| **Butyl methacrylate** | NE<br>0.88124 | 0.82471<br>0.81967 | 0.80995<br>0.82765 | 0.85924<br>0.78273 | 0.86805 | 0.89548 | AVRG | | 0.84097 | | 4.39110 | |
| **Dicyclopentadiene** | NE<br>2.64890 | 3.29432<br>2.62708 | 2.78520<br>2.65197 | 2.95593<br>2.55993 | 2.95812 | 2.68736 | AVRG | | 2.79653 | | 8.37421 | |
| **1,2,3-Trimethylbenzene** | NE<br>2.35164 | 2.43219<br>2.38718 | 2.33843<br>2.38987 | 2.47839<br>2.31737 | 2.37922 | 2.31576 | AVRG | | 2.37667 | | 2.25782 | |
| **Ethanol** | NE<br>0.00428 | 0.00512<br>0.00425 | 0.00500<br>0.00428 | 0.00594<br>0.00411 | 0.00529 | 0.00474 | AVRG | | 0.00478 | | 12.83125 | |
| **tert-Butyl formate** | NE<br>0.38030 | 0.39279<br>0.38170 | 0.45974<br>0.40182 | 0.42517<br>0.42845 | 0.42867 | 0.40731 | AVRG | | 0.41177 | | 6.32007 | |
| **3,3-Dimethyl-1-butanol** | NE<br>0.03530 | 0.04577<br>0.03571 | 0.04419<br>0.03842 | 0.04692<br>0.03856 | 0.04271 | 0.04048 | AVRG | | 0.04089 | | 10.38248 | |
| **tert-Amyl methyl ether** | NE<br>1.52534 | 1.82207<br>1.52372 | 1.65634<br>1.59018 | 1.67414<br>1.51346 | 1.59982 | 1.52885 | AVRG | | 1.60377 | | 6.30893 | |
| **tert-Butyl ethyl ether** | NE<br>1.46020 | 1.80647<br>1.45186 | 1.57123<br>1.48722 | 1.56716<br>1.45836 | 1.46858 | 1.46510 | AVRG | | 1.52624 | | 7.51749 | |
| **tert-Amyl alcohol** | NE<br>0.03803 | 0.04668<br>0.03817 | 0.04597<br>0.04018 | 0.04251<br>0.04285 | 0.04287 | 0.04073 | AVRG | | 0.04200 | | 7.27701 | |
| **Epichlorohydrin** | NE<br>0.02666 | 0.03720<br>0.02704 | 0.03387<br>0.02777 | 0.03155<br>0.02772 | 0.02794 | 0.02942 | AVRG | | 0.02991 | | 12.04819 | |
| **Isoprene** | NE<br>0.11147 | 0.16436<br>0.11863 | 0.19825<br>0.11449 | 0.16986<br>0.11423 | 0.11813 | 0.11521 | AVRG | | 0.13607 | | 23.83892 | * |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_438076

## Volatiles by EPA 8260

**ICAL Start Date** 15-JUN-2023 1115 **ICAL End Date** 15-JUN-2023 1445



| Compound | 50.00 Level 7 0.250 Level 1 | 100.00 Level 8 0.500 Level 2 | 150.00 Level 9 1.00 Level 3 | 200.00 Level 10 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Amyl acetate | NE<br>0.63723 | 0.72007<br>0.63944 | 0.73131<br>0.65455 | 0.63610<br>0.65751 | 0.66393 | 0.68601 | AVRG | | 0.66957 | | 5.30890 | |
| Isopropyl acetate | NE<br>0.84694 | 0.96664<br>0.83507 | 0.81115<br>0.84519 | 0.82457<br>0.83945 | 0.90675 | 0.89568 | AVRG | | 0.86349 | | 5.76082 | |
| n-Butyl acetate | NE<br>0.54986 | 0.46933<br>0.53460 | 0.51599<br>0.54978 | 0.51302<br>0.55812 | 0.55855 | 0.57035 | AVRG | | 0.53551 | | 5.88026 | |
| Acetaldehyde | NE<br>50952 | NE<br>103450 | NE<br>152553 | 4310<br>210164 | 6656 | 20285 | LINR | -0.06894 | 0.02587 | | 0.99963 | * |
| Methyl Amyl Ketone | NE<br>0.74062 | 0.65724<br>0.75253 | 0.65081<br>0.77485 | 0.73145<br>0.78295 | 0.75722 | 0.77834 | AVRG | | 0.73622 | | 6.74574 | |
| Dimethyl Disulfide | NE<br>0.76213 | 0.81112<br>0.75348 | 0.66792<br>0.77596 | 0.70809<br>0.75246 | 0.72312 | 0.71935 | AVRG | | 0.74151 | | 5.65803 | |
| Isobutylene | NE<br>0.04599 | 0.05492<br>0.04507 | 0.05248<br>0.05081 | 0.04904<br>0.04389 | 0.04588 | 0.04218 | AVRG | | 0.04781 | | 8.88937 | |
| 2-Ethylhexyl Acrylate | NE<br>360378 | 2087<br>790630 | 3400<br>1215186 | 8837<br>1627894 | 25308 | 120798 | LINR | 0.02538 | 0.94922 | | 0.99965 | |
| 94 1,2-Dichloroethylene (total) | NE<br>0.47212 | 0.59054<br>0.47798 | 0.55152<br>0.47957 | 0.52022<br>0.47697 | 0.48546 | 0.48413 | AVRG | | 0.50428 | | 8.22663 | |
| 95 Xylenes (total) | NE<br>0.56850 | 0.64773<br>0.59032 | 0.58459<br>0.60398 | 0.62199<br>0.60228 | 0.58667 | 0.57654 | AVRG | | 0.59807 | | 4.09592 | |
| 30 Dibromofluoromethane | NE<br>209535 | 1689<br>449558 | 5707<br>670515 | 9855<br>880893 | 25267 | 90715 | LINR | -0.00695 | 0.44346 | | 0.99959 | |
| 35 1,2-Dichloroethane-d4 | NE<br>238148 | 3125<br>480296 | 6368<br>717187 | 11054<br>943547 | 26822 | 99379 | LINR | -0.01718 | 0.47386 | | 0.99978 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_438076

## Volatiles by EPA 8260

**ICAL Start Date** 15-JUN-2023 1115 **ICAL End Date** 15-JUN-2023 1445



| Compound | 50.00 Level 7 / 0.250 Level 1 | 100.00 Level 8 / 0.500 Level 2 | 150.00 Level 9 / 1.00 Level 3 | 200.00 Level 10 / 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **48 Toluene-d8** | NE | 1.45018 | 1.43208 | 1.30411 | 1.24221 | 1.23311 | | | | | | |
| | 1.13265 | 1.22907 | 1.19790 | 1.15568 | | | AVRG | | 1.26411 | | 8.86752 | |
| **69 4-Bromofluorobenzene** | NE | 7971 | 11345 | 16470 | 37968 | 139706 | | | | | | |
| | 332999 | 703849 | 1057321 | 1427380 | | | LINR | -0.01076 | 0.48296 | | 0.99989 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

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right solutions.
right partner.

Form 6I

# Initial Calibration Verification (ICV)

## Volatiles by EPA 8260

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/23/2023

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

# Initial Calibration Verification (ICV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

RunID VOA6_438076

## Volatiles by EPA 8260

**Sample Matrix** LIQUID
**Lab Smp Id** ICV
**Level** LOW
**Fraction** VOA
**Client Smp ID** ICV
**Operator** PC

| Compound | Conc Added | Conc Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 50.00 | 46.87 | 93.74 | 80-120 | |
| 1,1,1-Trichloroethane | 50.00 | 44.94 | 89.89 | 80-120 | |
| 1,1,2,2-Tetrachloroethane | 50.00 | 46.24 | 92.49 | 80-120 | |
| Freon TF | 50.00 | 49.79 | 99.59 | 80-120 | |
| Methyl acetate | 50.00 | 48.69 | 97.38 | 80-120 | |
| Cyclohexane | 50.00 | 46.80 | 93.62 | 80-120 | |
| Methylcyclohexane | 50.00 | 53.51 | 107.04 | 80-120 | |
| Carbon Disulfide | 100.00 | 90.58 | 90.58 | 80-120 | |
| 2-Hexanone | 100.00 | 98.60 | 98.60 | 80-120 | |
| 1,1,2-Trichloroethane | 50.00 | 47.08 | 94.17 | 80-120 | |
| 1,1-Dichloroethane | 50.00 | 46.17 | 92.34 | 80-120 | |
| 1,1-Dichloroethene | 50.00 | 44.21 | 88.43 | 80-120 | |
| 1,1-Dichloropropene | 50.00 | 46.82 | 93.64 | 80-120 | |
| 1,2,3-Trichlorobenzene | 50.00 | 50.83 | 101.67 | 80-120 | |
| 1,2,3-Trichloropropane | 50.00 | 47.13 | 94.28 | 80-120 | |
| 1,2,4-Trichlorobenzene | 50.00 | 50.59 | 101.19 | 80-120 | |
| 1,2,4-Trimethylbenzene | 50.00 | 46.23 | 92.47 | 80-120 | |
| 1,2-Dibromo-3-Chloropropane | 50.00 | 50.38 | 100.77 | 80-120 | |
| 1,2-Dibromoethane | 50.00 | 47.45 | 94.91 | 80-120 | |
| Acrolein | 100.00 | 103.93 | 103.93 | 80-120 | |
| Acrylonitrile | 100.00 | 94.07 | 94.08 | 80-120 | |
| 1,2-Dichlorobenzene | 50.00 | 47.36 | 94.73 | 80-120 | |
| 1,2-Dichloroethane | 50.00 | 49.10 | 98.20 | 80-120 | |
| 1,2-Dichloropropane | 50.00 | 48.45 | 96.90 | 80-120 | |
| 1,3,5-Trimethylbenzene | 50.00 | 46.12 | 92.25 | 80-120 | |
| 1,3-Dichlorobenzene | 50.00 | 47.31 | 94.64 | 80-120 | |
| 1,3-Dichloropropane | 50.00 | 48.46 | 96.92 | 80-120 | |
| 1,4-Dichlorobenzene | 50.00 | 46.35 | 92.71 | 80-120 | |
| 1-Chlorohexane | 50.00 | 45.55 | 91.10 | 80-120 | |
| 2,2-Dichloropropane | 50.00 | 49.24 | 98.49 | 80-120 | |
| 2-Butanone | 100.00 | 102.39 | 102.40 | 80-120 | |
| 2-Chloroethylvinyl ether | 100.00 | 102.53 | 102.53 | 80-120 | |
| 2-Chlorotoluene | 50.00 | 45.20 | 90.40 | 80-120 | |
| 4-Chlorotoluene | 50.00 | 46.76 | 93.53 | 80-120 | |

# Initial Calibration Verification (ICV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

RunID VOA6_438076

## Volatiles by EPA 8260

**Sample Matrix** LIQUID
**Lab Smp Id** ICV
**Level** LOW
**Fraction** VOA
**Client Smp ID** ICV
**Operator** PC

| Compound | Conc Added | Conc Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| p-Isopropyltoluene | 50.00 | 46.63 | 93.27 | 80-120 | |
| 4-Methyl-2-Pentanone | 100.00 | 97.98 | 97.98 | 80-120 | |
| Acetone | 100.00 | 87.51 | 87.52 | 80-120 | |
| Acetonitrile | 500.00 | 494.01 | 98.80 | 80-120 | |
| Allyl Chloride | 50.00 | 49.12 | 98.25 | 80-120 | |
| Benzene | 50.00 | 47.05 | 94.11 | 80-120 | |
| Bromobenzene | 50.00 | 47.80 | 95.61 | 80-120 | |
| Bromochloromethane | 50.00 | 44.92 | 89.85 | 80-120 | |
| Bromodichloromethane | 50.00 | 46.41 | 92.84 | 80-120 | |
| Bromoform | 50.00 | 48.28 | 96.57 | 80-120 | |
| Bromomethane | 50.00 | 46.93 | 93.86 | 80-120 | |
| Carbon Tetrachloride | 50.00 | 46.16 | 92.34 | 80-120 | |
| Chlorobenzene | 50.00 | 46.73 | 93.47 | 80-120 | |
| Chloroethane | 50.00 | 46.13 | 92.28 | 80-120 | |
| Chloroform | 50.00 | 44.31 | 88.62 | 80-120 | |
| Chloromethane | 50.00 | 47.99 | 96.00 | 80-120 | |
| Chloroprene | 50.00 | 44.77 | 89.56 | 80-120 | |
| cis-1,2-Dichloroethene | 50.00 | 46.34 | 92.69 | 80-120 | |
| cis-1,3-Dichloropropene | 50.00 | 49.32 | 98.65 | 80-120 | |
| Dibromochloromethane | 50.00 | 48.01 | 96.02 | 80-120 | |
| Dibromomethane | 50.00 | 48.22 | 96.45 | 80-120 | |
| Dichlorodifluoromethane | 50.00 | 48.88 | 97.77 | 80-120 | |
| Ethylbenzene | 50.00 | 45.79 | 91.59 | 80-120 | |
| Ethyl Methacrylate | 50.00 | 42.61 | 85.24 | 80-120 | |
| Iodomethane | 100.00 | 92.19 | 92.19 | 80-120 | |
| Isobutyl Alcohol | 1000.00 | 980.04 | 98.00 | 70-130 | |
| Propionitrile | 500.00 | 498.23 | 99.65 | 70-130 | |
| Hexachlorobutadiene | 50.00 | 49.69 | 99.39 | 80-120 | |
| Isopropylbenzene | 50.00 | 45.67 | 91.36 | 80-120 | |
| m,p-Xylenes | 100.00 | 95.16 | 95.17 | 80-120 | |
| Methyl tert-butyl ether | 50.00 | 47.37 | 94.75 | 80-120 | |
| Methylene Chloride | 50.00 | 43.72 | 87.45 | 80-120 | |
| Methacrylonitrile | 50.00 | 48.78 | 97.56 | 80-120 | |
| Methyl Methacrylate | 50.00 | 49.45 | 98.90 | 80-120 | |

# Initial Calibration Verification (ICV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder**
**HS23060999**

**RunID**
**VOA6_438076**

## Volatiles by EPA 8260

**Sample Matrix** LIQUID
**Lab Smp Id** ICV
**Level** LOW
**Fraction** VOA
**Client Smp ID** ICV
**Operator** PC

| Compound | Conc Added | Conc Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| n-Butylbenzene | 50.00 | 48.74 | 97.49 | 80-120 | |
| n-Propylbenzene | 50.00 | 46.49 | 92.99 | 80-120 | |
| Naphthalene | 50.00 | 52.43 | 104.86 | 80-120 | |
| o-Xylene | 50.00 | 46.20 | 92.40 | 80-120 | |
| sec-Butylbenzene | 50.00 | 45.26 | 90.53 | 80-120 | |
| Styrene | 50.00 | 48.54 | 97.09 | 80-120 | |
| tert-Butylbenzene | 50.00 | 45.20 | 90.41 | 80-120 | |
| Tetrachloroethene | 50.00 | 45.65 | 91.32 | 80-120 | |
| Toluene | 50.00 | 47.38 | 94.76 | 80-120 | |
| trans-1,2-Dichloroethene | 50.00 | 45.23 | 90.46 | 80-120 | |
| trans-1,3-Dichloropropene | 50.00 | 49.63 | 99.28 | 80-120 | |
| trans-1,4-Dichloro-2-butene | 50.00 | 51.27 | 102.56 | 80-120 | |
| Trichloroethene | 50.00 | 46.73 | 93.48 | 80-120 | |
| Trichlorofluoromethane | 50.00 | 46.34 | 92.69 | 80-120 | |
| Vinyl Acetate | 100.00 | 103.98 | 103.98 | 80-120 | |
| Vinyl Chloride | 50.00 | 45.89 | 91.79 | 80-120 | |
| 1,2-Dichloroethylene (total) | 100.00 | 91.57 | 91.58 | 80-120 | |
| Xylenes (total) | 150.00 | 141.36 | 94.25 | 80-120 | |
| 1,4-Dioxane | 1000.00 | 977.76 | 97.78 | 80-120 | |
| Dibromofluoromethane | 50.00 | 50.87 | 101.75 | 71-125 | |
| 1,2-Dichloroethane-d4 | 50.00 | 50.05 | 100.12 | 70-125 | |
| Toluene-d8 | 50.00 | 48.61 | 97.23 | 75-125 | |

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Form 7

# Continuing Calibration Verification (CCV)

## Volatiles by EPA 8260

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/23/2023

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

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_439205

## Volatiles by EPA 8260

**Instrument ID** VOA6.I
**Lab File ID** X061703.D
**Analysis Type** WATER
**Lab Sample ID** CCV

**Injection Date** 17-JUN-2023 11:58
**ICAL Date(s)** 15-JUN-2023 15-JUN-2023
**ICAL Times** 11:15 14:45
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.00606 | 0.00646 | 0.00646 | 0.001 | -6.58245 | 20.0 | Averaged | |
| 1,3-Butadiene | 0.41435 | 0.39867 | 0.39867 | 0.100 | 3.78551 | 20.0 | Averaged | |
| Methacrylonitrile | 0.41256 | 0.43328 | 0.43328 | 0.100 | -5.02396 | 20.0 | Averaged | |
| Isobutyl Alcohol | 0.06519 | 0.06743 | 0.06743 | 0.005 | -3.42915 | 20.0 | Averaged | |
| Acetonitrile | 0.04850 | 0.04871 | 0.04871 | 0.005 | -0.43789 | 20.0 | Averaged | |
| Allyl Chloride | 1.09651 | 1.09423 | 1.09423 | 0.100 | 0.20739 | 20.0 | Averaged | |
| Propionitrile | 0.06047 | 0.06516 | 0.06516 | 0.010 | -7.75533 | 20.0 | Averaged | |
| trans-1,4-Dichloro-2-butene | 0.12170 | 0.12810 | 0.12810 | 0.050 | -5.25907 | 20.0 | Averaged | |
| Acetaldehyde | 200 | 203 | 0.02665 | 0.001 | -1.30926 | 20.0 | Linear | |
| Chloroprene | 0.16619 | 0.15639 | 0.15639 | 0.100 | 5.89754 | 20.0 | Averaged | |
| Ethyl Acetate | 0.50967 | 0.50541 | 0.50541 | 0.100 | 0.83567 | 20.0 | Averaged | |
| Methyl Methacrylate | 0.38707 | 0.40265 | 0.40265 | 0.100 | -4.02523 | 20.0 | Averaged | |
| Ethyl Methacrylate | 0.35838 | 0.32233 | 0.32233 | 0.100 | 10.05936 | 20.0 | Averaged | |
| Methyl Acrylate | 0.40496 | 0.46552 | 0.46552 | 0.100 | -14.95627 | 20.0 | Averaged | |
| n-Hexane | 50.0 | 55.37706 | 0.51017 | 0.100 | -10.75413 | 20.0 | Quadratic | |
| Diisopropyl ether | 1.47464 | 1.45117 | 1.45117 | 0.100 | 1.59110 | 20.0 | Averaged | |
| 1,2,3-Trimethylbenzene | 2.37667 | 2.20867 | 2.20867 | 0.100 | 7.06891 | 20.0 | Averaged | |
| Dichlorodifluoromethane | 50.0 | 50.83105 | 0.43778 | 0.100 | -1.66211 | 20.0 | Linear | |
| Chloromethane | 50.0 | 48.51988 | 0.51257 | 0.100 | 2.96025 | 20.0 | Linear | |
| Vinyl Chloride | 0.52511 | 0.50050 | 0.50050 | 0.100 | 4.68691 | 20.0 | Averaged | |
| Bromomethane | 0.30142 | 0.28826 | 0.28826 | 0.100 | 4.36625 | 20.0 | Averaged | |
| Chloroethane | 0.32098 | 0.32401 | 0.32401 | 0.100 | -0.94536 | 20.0 | Averaged | |
| Trichlorofluoromethane | 0.62401 | 0.62494 | 0.62494 | 0.100 | -0.15052 | 20.0 | Averaged | |
| Acrolein | 0.03103 | 0.02776 | 0.02776 | 0.010 | 10.51727 | 20.0 | Averaged | |
| Acetone | 100 | 87.85476 | 0.11458 | 0.100 | 12.14524 | 20.0 | Linear | |
| 1,1-Dichloroethene | 0.39145 | 0.36478 | 0.36478 | 0.100 | 6.81371 | 20.0 | Averaged | |
| Iodomethane | 100 | 92.46546 | 0.59873 | 0.100 | 7.53454 | 20.0 | Quadratic | |
| Acrylonitrile | 0.15871 | 0.15862 | 0.15862 | 0.050 | 0.05514 | 20.0 | Averaged | |
| Methylene Chloride | 0.55293 | 0.50746 | 0.50746 | 0.100 | 8.22424 | 20.0 | Averaged | |
| Methyl tert-butyl ether | 1.36625 | 1.36362 | 1.36362 | 0.100 | 0.19256 | 20.0 | Averaged | |
| Carbon Disulfide | 1.39384 | 1.30878 | 1.30878 | 0.100 | 6.10293 | 20.0 | Averaged | |
| trans-1,2-Dichloroethene | 0.46841 | 0.44607 | 0.44607 | 0.100 | 4.76902 | 20.0 | Averaged | |
| Vinyl Acetate | 1.25019 | 1.37708 | 1.37708 | 0.010 | -10.14957 | 20.0 | Averaged | |
| 1,1-Dichloroethane | 0.84382 | 0.82774 | 0.82774 | 0.200 | 1.90605 | 20.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_439205

## Volatiles by EPA 8260

**Instrument ID** VOA6.I
**Lab File ID** X061703.D
**Analysis Type** WATER
**Lab Sample ID** CCV

**Injection Date** 17-JUN-2023 11:58
**ICAL Date(s)** 15-JUN-2023 15-JUN-2023
**ICAL Times** 11:15 14:45
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.16455 | 0.17063 | 0.17063 | 0.100 | -3.69427 | 20.0 | Averaged | |
| 2,2-Dichloropropane | 50.0 | 52.65730 | 0.70127 | 0.100 | -5.31460 | 20.0 | Linear | |
| cis-1,2-Dichloroethene | 0.54016 | 0.51582 | 0.51582 | 0.100 | 4.50555 | 20.0 | Averaged | |
| Chloroform | 0.90821 | 0.85698 | 0.85698 | 0.200 | 5.64107 | 20.0 | Averaged | |
| Bromochloromethane | 0.28784 | 0.27386 | 0.27386 | 0.100 | 4.85602 | 20.0 | Averaged | |
| 30 Dibromofluoromethane | 50.0 | 52.32537 | 0.46716 | 0.100 | -4.65074 | 20.0 | Linear | |
| 1,1,1-Trichloroethane | 0.73406 | 0.71128 | 0.71128 | 0.100 | 3.10342 | 20.0 | Averaged | |
| 1,1-Dichloropropene | 0.41897 | 0.41133 | 0.41133 | 0.100 | 1.82246 | 20.0 | Averaged | |
| 1,2-Dichloroethane | 0.41982 | 0.43195 | 0.43195 | 0.100 | -2.89017 | 20.0 | Averaged | |
| Carbon Tetrachloride | 0.40293 | 0.38891 | 0.38891 | 0.100 | 3.47925 | 20.0 | Averaged | |
| 35 1,2-Dichloroethane-d4 | 50.0 | 54.15505 | 0.52138 | 0.100 | -8.31009 | 20.0 | Linear | |
| Benzene | 1.28613 | 1.23804 | 1.23804 | 0.500 | 3.73961 | 20.0 | Averaged | |
| Trichloroethene | 0.35461 | 0.33750 | 0.33750 | 0.200 | 4.82633 | 20.0 | Averaged | |
| Bromodichloromethane | 0.45495 | 0.43930 | 0.43930 | 0.200 | 3.43929 | 20.0 | Averaged | |
| 2-Chloroethylvinyl ether | 0.12311 | 0.12913 | 0.12913 | 0.001 | -4.89232 | 20.0 | Averaged | |
| 1,2-Dichloropropane | 0.33759 | 0.33519 | 0.33519 | 0.100 | 0.70937 | 20.0 | Averaged | |
| Dibromomethane | 0.21192 | 0.21020 | 0.21020 | 0.100 | 0.80906 | 20.0 | Averaged | |
| 4-Methyl-2-Pentanone | 0.32299 | 0.33162 | 0.33162 | 0.100 | -2.67139 | 20.0 | Averaged | |
| cis-1,3-Dichloropropene | 0.56095 | 0.57012 | 0.57012 | 0.200 | -1.63574 | 20.0 | Averaged | |
| 48 Toluene-d8 | 1.26411 | 1.22223 | 1.22223 | 0.100 | 3.31292 | 20.0 | Averaged | |
| Toluene | 1.46787 | 1.42156 | 1.42156 | 0.400 | 3.15475 | 20.0 | Averaged | |
| trans-1,3-Dichloropropene | 0.46933 | 0.48261 | 0.48261 | 0.100 | -2.82964 | 20.0 | Averaged | |
| 2-Hexanone | 0.21575 | 0.22199 | 0.22199 | 0.100 | -2.89546 | 20.0 | Averaged | |
| 1,1,2-Trichloroethane | 0.28597 | 0.27940 | 0.27940 | 0.100 | 2.29668 | 20.0 | Averaged | |
| 1,3-Dichloropropane | 0.57821 | 0.57974 | 0.57974 | 0.100 | -0.26537 | 20.0 | Averaged | |
| Dibromochloromethane | 0.40528 | 0.40025 | 0.40025 | 0.100 | 1.24285 | 20.0 | Averaged | |
| Tetrachloroethene | 0.30185 | 0.28318 | 0.28318 | 0.200 | 6.18415 | 20.0 | Averaged | |
| 1,2-Dibromoethane | 0.36552 | 0.36228 | 0.36228 | 0.100 | 0.88614 | 20.0 | Averaged | |
| 1-Chlorohexane | 0.30406 | 0.30378 | 0.30378 | 0.100 | 0.09183 | 20.0 | Averaged | |
| Chlorobenzene | 1.00438 | 0.96462 | 0.96462 | 0.500 | 3.95859 | 20.0 | Averaged | |
| 1,1,1,2-Tetrachloroethane | 0.37452 | 0.35959 | 0.35959 | 0.100 | 3.98621 | 20.0 | Averaged | |
| Ethylbenzene | 0.51747 | 0.49026 | 0.49026 | 0.100 | 5.25792 | 20.0 | Averaged | |
| m,p-Xylenes | 0.63815 | 0.62899 | 0.62899 | 0.100 | 1.43458 | 20.0 | Averaged | |
| o-Xylene | 0.63677 | 0.61056 | 0.61056 | 0.300 | 4.11613 | 20.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

RunID VOA6_439205

## Volatiles by EPA 8260

**Instrument ID** VOA6.I
**Lab File ID** X061703.D
**Analysis Type** WATER
**Lab Sample ID** CCV

**Injection Date** 17-JUN-2023 11:58
**ICAL Date(s)** 15-JUN-2023 15-JUN-2023
**ICAL Times** 11:15 14:45
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| Styrene | 1.04887 | 1.04957 | 1.04957 | 0.300 | -0.06753 | 20.0 | Averaged | |
| Bromoform | 0.28254 | 0.28099 | 0.28099 | 0.100 | 0.54975 | 20.0 | Averaged | |
| Isopropylbenzene | 1.57393 | 1.49340 | 1.49340 | 0.100 | 5.11664 | 20.0 | Averaged | |
| 1,1,2,2-Tetrachloroethane | 0.87919 | 0.83530 | 0.83530 | 0.300 | 4.99236 | 20.0 | Averaged | |
| 1,2,3-Trichloropropane | 0.63044 | 0.60537 | 0.60537 | 0.100 | 3.97701 | 20.0 | Averaged | |
| n-Propylbenzene | 3.29025 | 3.16931 | 3.16931 | 0.100 | 3.67573 | 20.0 | Averaged | |
| Bromobenzene | 0.81493 | 0.77874 | 0.77874 | 0.100 | 4.44151 | 20.0 | Averaged | |
| 1,3,5-Trimethylbenzene | 2.41429 | 2.30999 | 2.30999 | 0.100 | 4.32037 | 20.0 | Averaged | |
| 2-Chlorotoluene | 2.08941 | 1.94324 | 1.94324 | 0.100 | 6.99578 | 20.0 | Averaged | |
| 4-Chlorotoluene | 2.33060 | 2.26035 | 2.26035 | 0.100 | 3.01455 | 20.0 | Averaged | |
| tert-Butylbenzene | 2.01139 | 1.88909 | 1.88909 | 0.100 | 6.08025 | 20.0 | Averaged | |
| 1,2,4-Trimethylbenzene | 2.43582 | 2.33712 | 2.33712 | 0.100 | 4.05233 | 20.0 | Averaged | |
| sec-Butylbenzene | 2.83678 | 2.72152 | 2.72152 | 0.100 | 4.06300 | 20.0 | Averaged | |
| p-Isopropyltoluene | 2.48362 | 2.40729 | 2.40729 | 0.100 | 3.07352 | 20.0 | Averaged | |
| 1,3-Dichlorobenzene | 1.45104 | 1.38334 | 1.38334 | 0.600 | 4.66562 | 20.0 | Averaged | |
| 1,4-Dichlorobenzene | 1.55314 | 1.45852 | 1.45852 | 0.400 | 6.09199 | 20.0 | Averaged | |
| n-Butylbenzene | 2.11532 | 2.18751 | 2.18751 | 0.500 | -3.41265 | 20.0 | Averaged | |
| 1,2-Dichlorobenzene | 1.43975 | 1.39350 | 1.39350 | 0.400 | 3.21249 | 20.0 | Averaged | |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 50.75122 | 0.14565 | 0.040 | -1.50244 | 20.0 | Linear | |
| 1,2,4-Trichlorobenzene | 1.00154 | 1.01924 | 1.01924 | 0.100 | -1.76659 | 20.0 | Averaged | |
| Hexachlorobutadiene | 0.44956 | 0.46141 | 0.46141 | 0.100 | -2.63586 | 20.0 | Averaged | |
| Naphthalene | 2.25463 | 2.38133 | 2.38133 | 0.200 | -5.61934 | 20.0 | Averaged | |
| 1,2,3-Trichlorobenzene | 0.92158 | 0.95077 | 0.95077 | 0.010 | -3.16735 | 20.0 | Averaged | |
| 94 1,2-Dichloroethylene (total | 0.50428 | 0.48094 | 0.48094 | 0.200 | 4.62791 | 20.0 | Averaged | |
| 95 Xylenes (total) | 0.59807 | 0.58876 | 0.58876 | 0.100 | 1.55629 | 20.0 | Averaged | |
| Cyclohexane | 0.63736 | 0.63929 | 0.63929 | 0.100 | -0.30308 | 20.0 | Averaged | |
| Freon TF | 50.0 | 53.25271 | 0.37100 | 0.100 | -6.50541 | 20.0 | Quadratic | |
| Methylcyclohexane | 0.69881 | 0.69554 | 0.69554 | 0.100 | 0.46805 | 20.0 | Averaged | |
| Methyl Acetate | 0.29595 | 0.30972 | 0.30972 | 0.100 | -4.65320 | 20.0 | Averaged | |
| Tert-butyl alcohol | 0.05134 | 0.05023 | 0.05023 | 0.005 | 2.16406 | 20.0 | Averaged | |
| Isopropyl alcohol | 0.02834 | 0.02863 | 0.02863 | 0.005 | -1.00538 | 20.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_439205

## Volatiles by EPA 8260

**Instrument ID** VOA6.I
**Lab File ID** X061731.D
**Analysis Type** WATER
**Lab Sample ID** CCV-END

**Injection Date** 17-JUN-2023 21:47
**ICAL Date(s)** 15-JUN-2023 15-JUN-2023
**ICAL Times** 11:15 14:45
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.00606 | 0.00620 | 0.00620 | 0.001 | -2.24039 | 50.0 | Averaged | |
| 1,3-Butadiene | 0.41435 | 0.40861 | 0.40861 | 0.100 | 1.38527 | 50.0 | Averaged | |
| Methacrylonitrile | 0.41256 | 0.44506 | 0.44506 | 0.100 | -7.87904 | 50.0 | Averaged | |
| Isobutyl Alcohol | 0.06519 | 0.06825 | 0.06825 | 0.005 | -4.67975 | 50.0 | Averaged | |
| Acetonitrile | 0.04850 | 0.05338 | 0.05338 | 0.005 | -10.06385 | 50.0 | Averaged | |
| Allyl Chloride | 1.09651 | 1.14547 | 1.14547 | 0.100 | -4.46549 | 50.0 | Averaged | |
| Propionitrile | 0.06047 | 0.06615 | 0.06615 | 0.010 | -9.39245 | 50.0 | Averaged | |
| trans-1,4-Dichloro-2-butene | 0.12170 | 0.11097 | 0.11097 | 0.050 | 8.81477 | 50.0 | Averaged | |
| Acetaldehyde | 200 | 203 | 0.02672 | 0.001 | -1.57323 | 50.0 | Linear | |
| Chloroprene | 0.16619 | 0.15217 | 0.15217 | 0.100 | 8.43655 | 50.0 | Averaged | |
| Ethyl Acetate | 0.50967 | 0.50478 | 0.50478 | 0.100 | 0.96011 | 50.0 | Averaged | |
| Methyl Methacrylate | 0.38707 | 0.42072 | 0.42072 | 0.100 | -8.69417 | 50.0 | Averaged | |
| Ethyl Methacrylate | 0.35838 | 0.33106 | 0.33106 | 0.100 | 7.62380 | 50.0 | Averaged | |
| Methyl Acrylate | 0.40496 | 0.46742 | 0.46742 | 0.100 | -15.42449 | 50.0 | Averaged | |
| n-Hexane | 50.0 | 48.28523 | 0.44124 | 0.100 | 3.42955 | 50.0 | Quadratic | |
| Diisopropyl ether | 1.47464 | 1.48182 | 1.48182 | 0.100 | -0.48711 | 50.0 | Averaged | |
| 1,2,3-Trimethylbenzene | 2.37667 | 2.39477 | 2.39477 | 0.100 | -0.76138 | 50.0 | Averaged | |
| Dichlorodifluoromethane | 50.0 | 48.72272 | 0.41950 | 0.100 | 2.55457 | 50.0 | Linear | |
| Chloromethane | 50.0 | 44.94595 | 0.47400 | 0.100 | 10.10810 | 50.0 | Linear | |
| Vinyl Chloride | 0.52511 | 0.50623 | 0.50623 | 0.100 | 3.59478 | 50.0 | Averaged | |
| Bromomethane | 0.30142 | 0.25811 | 0.25811 | 0.100 | 14.36794 | 50.0 | Averaged | |
| Chloroethane | 0.32098 | 0.31644 | 0.31644 | 0.100 | 1.41503 | 50.0 | Averaged | |
| Trichlorofluoromethane | 0.62401 | 0.61569 | 0.61569 | 0.100 | 1.33293 | 50.0 | Averaged | |
| Acrolein | 0.03103 | 0.02993 | 0.02993 | 0.010 | 3.52597 | 50.0 | Averaged | |
| Acetone | 100 | 91.19626 | 0.11893 | 0.100 | 8.80374 | 50.0 | Linear | |
| 1,1-Dichloroethene | 0.39145 | 0.37301 | 0.37301 | 0.100 | 4.71127 | 50.0 | Averaged | |
| Iodomethane | 100 | 76.66680 | 0.49281 | 0.100 | 23.33320 | 50.0 | Quadratic | |
| Acrylonitrile | 0.15871 | 0.16251 | 0.16251 | 0.050 | -2.39476 | 50.0 | Averaged | |
| Methylene Chloride | 0.55293 | 0.51073 | 0.51073 | 0.100 | 7.63199 | 50.0 | Averaged | |
| Methyl tert-butyl ether | 1.36625 | 1.34341 | 1.34341 | 0.100 | 1.67172 | 50.0 | Averaged | |
| Carbon Disulfide | 1.39384 | 1.18173 | 1.18173 | 0.100 | 15.21768 | 50.0 | Averaged | |
| trans-1,2-Dichloroethene | 0.46841 | 0.44711 | 0.44711 | 0.100 | 4.54636 | 50.0 | Averaged | |
| Vinyl Acetate | 1.25019 | 1.35322 | 1.35322 | 0.010 | -8.24069 | 50.0 | Averaged | |
| 1,1-Dichloroethane | 0.84382 | 0.83578 | 0.83578 | 0.200 | 0.95285 | 50.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

RunID VOA6_439205

## Volatiles by EPA 8260

**Instrument ID** VOA6.I
**Lab File ID** X061731.D
**Analysis Type** WATER
**Lab Sample ID** CCV-END

**Injection Date** 17-JUN-2023 21:47
**ICAL Date(s)** 15-JUN-2023 15-JUN-2023
**ICAL Times** 11:15 14:45
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.16455 | 0.16762 | 0.16762 | 0.100 | -1.86890 | 50.0 | Averaged | |
| 2,2-Dichloropropane | 50.0 | 46.19588 | 0.61523 | 0.100 | 7.60823 | 50.0 | Linear | |
| cis-1,2-Dichloroethene | 0.54016 | 0.52452 | 0.52452 | 0.100 | 2.89406 | 50.0 | Averaged | |
| Chloroform | 0.90821 | 0.87139 | 0.87139 | 0.200 | 4.05436 | 50.0 | Averaged | |
| Bromochloromethane | 0.28784 | 0.27421 | 0.27421 | 0.100 | 4.73390 | 50.0 | Averaged | |
| 30 Dibromofluoromethane | 50.0 | 54.84366 | 0.48950 | 0.100 | -9.68732 | 50.0 | Linear | |
| 1,1,1-Trichloroethane | 0.73406 | 0.70890 | 0.70890 | 0.100 | 3.42688 | 50.0 | Averaged | |
| 1,1-Dichloropropene | 0.41897 | 0.39880 | 0.39880 | 0.100 | 4.81430 | 50.0 | Averaged | |
| 1,2-Dichloroethane | 0.41982 | 0.42508 | 0.42508 | 0.100 | -1.25364 | 50.0 | Averaged | |
| Carbon Tetrachloride | 0.40293 | 0.37446 | 0.37446 | 0.100 | 7.06551 | 50.0 | Averaged | |
| 35 1,2-Dichloroethane-d4 | 50.0 | 55.63435 | 0.53540 | 0.100 | -11.26869 | 50.0 | Linear | |
| Benzene | 1.28613 | 1.22451 | 1.22451 | 0.500 | 4.79139 | 50.0 | Averaged | |
| Trichloroethene | 0.35461 | 0.33351 | 0.33351 | 0.200 | 5.95093 | 50.0 | Averaged | |
| Bromodichloromethane | 0.45495 | 0.43314 | 0.43314 | 0.200 | 4.79375 | 50.0 | Averaged | |
| 2-Chloroethylvinyl ether | 0.12311 | 0.10922 | 0.10922 | 0.001 | 11.28414 | 50.0 | Averaged | |
| 1,2-Dichloropropane | 0.33759 | 0.32926 | 0.32926 | 0.100 | 2.46672 | 50.0 | Averaged | |
| Dibromomethane | 0.21192 | 0.20781 | 0.20781 | 0.100 | 1.93854 | 50.0 | Averaged | |
| 4-Methyl-2-Pentanone | 0.32299 | 0.32151 | 0.32151 | 0.100 | 0.45720 | 50.0 | Averaged | |
| cis-1,3-Dichloropropene | 0.56095 | 0.54368 | 0.54368 | 0.200 | 3.07790 | 50.0 | Averaged | |
| 48 Toluene-d8 | 1.26411 | 1.24155 | 1.24155 | 0.100 | 1.78469 | 50.0 | Averaged | |
| Toluene | 1.46787 | 1.40541 | 1.40541 | 0.400 | 4.25522 | 50.0 | Averaged | |
| trans-1,3-Dichloropropene | 0.46933 | 0.45911 | 0.45911 | 0.100 | 2.17776 | 50.0 | Averaged | |
| 2-Hexanone | 0.21575 | 0.21775 | 0.21775 | 0.100 | -0.92658 | 50.0 | Averaged | |
| 1,1,2-Trichloroethane | 0.28597 | 0.26955 | 0.26955 | 0.100 | 5.74205 | 50.0 | Averaged | |
| 1,3-Dichloropropane | 0.57821 | 0.55682 | 0.55682 | 0.100 | 3.69798 | 50.0 | Averaged | |
| Dibromochloromethane | 0.40528 | 0.38536 | 0.38536 | 0.100 | 4.91608 | 50.0 | Averaged | |
| Tetrachloroethene | 0.30185 | 0.26841 | 0.26841 | 0.200 | 11.07939 | 50.0 | Averaged | |
| 1,2-Dibromoethane | 0.36552 | 0.34601 | 0.34601 | 0.100 | 5.33599 | 50.0 | Averaged | |
| 1-Chlorohexane | 0.30406 | 0.26684 | 0.26684 | 0.100 | 12.24232 | 50.0 | Averaged | |
| Chlorobenzene | 1.00438 | 0.93960 | 0.93960 | 0.500 | 6.44956 | 50.0 | Averaged | |
| 1,1,1,2-Tetrachloroethane | 0.37452 | 0.35091 | 0.35091 | 0.100 | 6.30334 | 50.0 | Averaged | |
| Ethylbenzene | 0.51747 | 0.47271 | 0.47271 | 0.100 | 8.64957 | 50.0 | Averaged | |
| m,p-Xylenes | 0.63815 | 0.60117 | 0.60117 | 0.100 | 5.79416 | 50.0 | Averaged | |
| o-Xylene | 0.63677 | 0.58647 | 0.58647 | 0.300 | 7.89961 | 50.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_439205

## Volatiles by EPA 8260

**Instrument ID** VOA6.I
**Lab File ID** X061731.D
**Analysis Type** WATER
**Lab Sample ID** CCV-END

**Injection Date** 17-JUN-2023 21:47
**ICAL Date(s)** 15-JUN-2023 15-JUN-2023
**ICAL Times** 11:15 14:45
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| Styrene | 1.04887 | 1.00609 | 1.00609 | 0.300 | 4.07803 | 50.0 | Averaged | |
| Bromoform | 0.28254 | 0.26837 | 0.26837 | 0.100 | 5.01460 | 50.0 | Averaged | |
| Isopropylbenzene | 1.57393 | 1.43673 | 1.43673 | 0.100 | 8.71716 | 50.0 | Averaged | |
| 1,1,2,2-Tetrachloroethane | 0.87919 | 0.81660 | 0.81660 | 0.300 | 7.11894 | 50.0 | Averaged | |
| 1,2,3-Trichloropropane | 0.63044 | 0.63040 | 0.63040 | 0.100 | 0.00613 | 50.0 | Averaged | |
| n-Propylbenzene | 3.29025 | 3.01952 | 3.01952 | 0.100 | 8.22822 | 50.0 | Averaged | |
| Bromobenzene | 0.81493 | 0.75965 | 0.75965 | 0.100 | 6.78344 | 50.0 | Averaged | |
| 1,3,5-Trimethylbenzene | 2.41429 | 2.21669 | 2.21669 | 0.100 | 8.18485 | 50.0 | Averaged | |
| 2-Chlorotoluene | 2.08941 | 1.87610 | 1.87610 | 0.100 | 10.20914 | 50.0 | Averaged | |
| 4-Chlorotoluene | 2.33060 | 2.18015 | 2.18015 | 0.100 | 6.45558 | 50.0 | Averaged | |
| tert-Butylbenzene | 2.01139 | 1.82015 | 1.82015 | 0.100 | 9.50770 | 50.0 | Averaged | |
| 1,2,4-Trimethylbenzene | 2.43582 | 2.23914 | 2.23914 | 0.100 | 8.07483 | 50.0 | Averaged | |
| sec-Butylbenzene | 2.83678 | 2.54425 | 2.54425 | 0.100 | 10.31197 | 50.0 | Averaged | |
| p-Isopropyltoluene | 2.48362 | 2.24354 | 2.24354 | 0.100 | 9.66649 | 50.0 | Averaged | |
| 1,3-Dichlorobenzene | 1.45104 | 1.32569 | 1.32569 | 0.600 | 8.63881 | 50.0 | Averaged | |
| 1,4-Dichlorobenzene | 1.55314 | 1.37933 | 1.37933 | 0.400 | 11.19093 | 50.0 | Averaged | |
| n-Butylbenzene | 2.11532 | 1.98023 | 1.98023 | 0.500 | 6.38631 | 50.0 | Averaged | |
| 1,2-Dichlorobenzene | 1.43975 | 1.31462 | 1.31462 | 0.400 | 8.69151 | 50.0 | Averaged | |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 48.18903 | 0.13826 | 0.040 | 3.62193 | 50.0 | Linear | |
| 1,2,4-Trichlorobenzene | 1.00154 | 0.94184 | 0.94184 | 0.100 | 5.96095 | 50.0 | Averaged | |
| Hexachlorobutadiene | 0.44956 | 0.40009 | 0.40009 | 0.100 | 11.00434 | 50.0 | Averaged | |
| Naphthalene | 2.25463 | 2.26193 | 2.26193 | 0.200 | -0.32345 | 50.0 | Averaged | |
| 1,2,3-Trichlorobenzene | 0.92158 | 0.88271 | 0.88271 | 0.010 | 4.21751 | 50.0 | Averaged | |
| 94 1,2-Dichloroethylene (total | 0.50428 | 0.48582 | 0.48582 | 0.200 | 3.66144 | 50.0 | Averaged | |
| 95 Xylenes (total) | 0.59807 | 0.56679 | 0.56679 | 0.100 | 5.22999 | 50.0 | Averaged | |
| Cyclohexane | 0.63736 | 0.64215 | 0.64215 | 0.100 | -0.75054 | 50.0 | Averaged | |
| Freon TF | 50.0 | 50.16516 | 0.34904 | 0.100 | -0.33032 | 50.0 | Quadratic | |
| Methylcyclohexane | 0.69881 | 0.74500 | 0.74500 | 0.100 | -6.60997 | 50.0 | Averaged | |
| Methyl Acetate | 0.29595 | 0.32048 | 0.32048 | 0.100 | -8.29166 | 50.0 | Averaged | |
| Tert-butyl alcohol | 0.05134 | 0.04778 | 0.04778 | 0.005 | 6.93842 | 50.0 | Averaged | |
| Isopropyl alcohol | 0.02834 | 0.02620 | 0.02620 | 0.005 | 7.54757 | 50.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_439273

## Volatiles by EPA 8260

**Instrument ID** VOA6.I
**Lab File ID** X061903.D
**Analysis Type** WATER
**Lab Sample ID** CCV

**Injection Date** 19-JUN-2023 11:20
**ICAL Date(s)** 15-JUN-2023 15-JUN-2023
**ICAL Times** 11:15 14:45
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.00606 | 0.00588 | 0.00588 | 0.001 | 2.97980 | 20.0 | Averaged | |
| 1,3-Butadiene | 0.41435 | 0.44213 | 0.44213 | 0.100 | -6.70525 | 20.0 | Averaged | |
| Methacrylonitrile | 0.41256 | 0.41433 | 0.41433 | 0.100 | -0.43091 | 20.0 | Averaged | |
| Isobutyl Alcohol | 0.06519 | 0.06701 | 0.06701 | 0.005 | -2.78840 | 20.0 | Averaged | |
| Acetonitrile | 0.04850 | 0.04654 | 0.04654 | 0.005 | 4.03286 | 20.0 | Averaged | |
| Allyl Chloride | 1.09651 | 0.96602 | 0.96602 | 0.100 | 11.90004 | 20.0 | Averaged | |
| Propionitrile | 0.06047 | 0.06009 | 0.06009 | 0.010 | 0.63322 | 20.0 | Averaged | |
| trans-1,4-Dichloro-2-butene | 0.12170 | 0.12546 | 0.12546 | 0.050 | -3.09417 | 20.0 | Averaged | |
| Acetaldehyde | 200 | 201 | 0.02649 | 0.001 | -0.70268 | 20.0 | Linear | |
| Chloroprene | 0.16619 | 0.17952 | 0.17952 | 0.100 | -8.02131 | 20.0 | Averaged | |
| Ethyl Acetate | 0.50967 | 0.48866 | 0.48866 | 0.100 | 4.12211 | 20.0 | Averaged | |
| Methyl Methacrylate | 0.38707 | 0.39439 | 0.39439 | 0.100 | -1.89251 | 20.0 | Averaged | |
| Ethyl Methacrylate | 0.35838 | 0.30056 | 0.30056 | 0.100 | 16.13402 | 20.0 | Averaged | |
| Methyl Acrylate | 0.40496 | 0.42978 | 0.42978 | 0.100 | -6.13109 | 20.0 | Averaged | |
| Diisopropyl ether | 1.47464 | 1.46471 | 1.46471 | 0.100 | 0.67328 | 20.0 | Averaged | |
| Dicyclopentadiene | 2.79653 | 2.50402 | 2.50402 | 0.100 | 10.45988 | 20.0 | Averaged | |
| 1,2,3-Trimethylbenzene | 2.37667 | 2.28554 | 2.28554 | 0.100 | 3.83427 | 20.0 | Averaged | |
| Dichlorodifluoromethane | 50.0 | 47.58991 | 0.40968 | 0.100 | 4.82017 | 20.0 | Linear | |
| Chloromethane | 50.0 | 51.58928 | 0.54570 | 0.100 | -3.17857 | 20.0 | Linear | |
| Vinyl Chloride | 0.52511 | 0.54818 | 0.54818 | 0.100 | -4.39320 | 20.0 | Averaged | |
| Bromomethane | 0.30142 | 0.31089 | 0.31089 | 0.100 | -3.14272 | 20.0 | Averaged | |
| Chloroethane | 0.32098 | 0.34974 | 0.34974 | 0.100 | -8.96077 | 20.0 | Averaged | |
| Trichlorofluoromethane | 0.62401 | 0.66866 | 0.66866 | 0.100 | -7.15623 | 20.0 | Averaged | |
| Acrolein | 0.03103 | 0.03043 | 0.03043 | 0.010 | 1.91692 | 20.0 | Averaged | |
| Acetone | 100 | 98.81626 | 0.12884 | 0.100 | 1.18374 | 20.0 | Linear | |
| 1,1-Dichloroethene | 0.39145 | 0.39845 | 0.39845 | 0.100 | -1.78675 | 20.0 | Averaged | |
| Iodomethane | 100 | 98.22687 | 0.63746 | 0.100 | 1.77313 | 20.0 | Quadratic | |
| Acrylonitrile | 0.15871 | 0.15991 | 0.15991 | 0.050 | -0.75926 | 20.0 | Averaged | |
| Methylene Chloride | 0.55293 | 0.46745 | 0.46745 | 0.100 | 15.45948 | 20.0 | Averaged | |
| Methyl tert-butyl ether | 1.36625 | 1.33988 | 1.33988 | 0.100 | 1.93011 | 20.0 | Averaged | |
| Carbon Disulfide | 1.39384 | 1.33009 | 1.33009 | 0.100 | 4.57382 | 20.0 | Averaged | |
| trans-1,2-Dichloroethene | 0.46841 | 0.46201 | 0.46201 | 0.100 | 1.36602 | 20.0 | Averaged | |
| Vinyl Acetate | 1.25019 | 1.37044 | 1.37044 | 0.010 | -9.61835 | 20.0 | Averaged | |
| 1,1-Dichloroethane | 0.84382 | 0.84215 | 0.84215 | 0.200 | 0.19762 | 20.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

RunID VOA6_439273

## Volatiles by EPA 8260

**Instrument ID** VOA6.I
**Lab File ID** X061903.D
**Analysis Type** WATER
**Lab Sample ID** CCV

**Injection Date** 19-JUN-2023 11:20
**ICAL Date(s)** 15-JUN-2023 15-JUN-2023
**ICAL Times** 11:15 14:45
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.16455 | 0.16678 | 0.16678 | 0.100 | -1.35928 | 20.0 | Averaged | |
| 2,2-Dichloropropane | 50.0 | 55.25088 | 0.73581 | 0.100 | -10.50177 | 20.0 | Linear | |
| cis-1,2-Dichloroethene | 0.54016 | 0.53024 | 0.53024 | 0.100 | 1.83624 | 20.0 | Averaged | |
| Chloroform | 0.90821 | 0.87889 | 0.87889 | 0.200 | 3.22896 | 20.0 | Averaged | |
| Bromochloromethane | 0.28784 | 0.27786 | 0.27786 | 0.100 | 3.46443 | 20.0 | Averaged | |
| 30 Dibromofluoromethane | 50.0 | 53.50562 | 0.47763 | 0.100 | -7.01123 | 20.0 | Linear | |
| 1,1,1-Trichloroethane | 0.73406 | 0.73064 | 0.73064 | 0.100 | 0.46499 | 20.0 | Averaged | |
| 1,1-Dichloropropene | 0.41897 | 0.41636 | 0.41636 | 0.100 | 0.62240 | 20.0 | Averaged | |
| 1,2-Dichloroethane | 0.41982 | 0.43044 | 0.43044 | 0.100 | -2.53026 | 20.0 | Averaged | |
| Carbon Tetrachloride | 0.40293 | 0.39866 | 0.39866 | 0.100 | 1.05989 | 20.0 | Averaged | |
| 35 1,2-Dichloroethane-d4 | 50.0 | 54.69548 | 0.52651 | 0.100 | -9.39096 | 20.0 | Linear | |
| Benzene | 1.28613 | 1.24576 | 1.24576 | 0.500 | 3.13872 | 20.0 | Averaged | |
| Trichloroethene | 0.35461 | 0.34233 | 0.34233 | 0.200 | 3.46286 | 20.0 | Averaged | |
| Bromodichloromethane | 0.45495 | 0.44270 | 0.44270 | 0.200 | 2.69275 | 20.0 | Averaged | |
| 2-Chloroethylvinyl ether | 0.12311 | 0.12226 | 0.12226 | 0.001 | 0.69051 | 20.0 | Averaged | |
| 1,2-Dichloropropane | 0.33759 | 0.33351 | 0.33351 | 0.100 | 1.20636 | 20.0 | Averaged | |
| Dibromomethane | 0.21192 | 0.21018 | 0.21018 | 0.100 | 0.82164 | 20.0 | Averaged | |
| 4-Methyl-2-Pentanone | 0.32299 | 0.31174 | 0.31174 | 0.100 | 3.48300 | 20.0 | Averaged | |
| cis-1,3-Dichloropropene | 0.56095 | 0.56178 | 0.56178 | 0.200 | -0.14800 | 20.0 | Averaged | |
| 48 Toluene-d8 | 1.26411 | 1.22596 | 1.22596 | 0.100 | 3.01800 | 20.0 | Averaged | |
| Toluene | 1.46787 | 1.43789 | 1.43789 | 0.400 | 2.04184 | 20.0 | Averaged | |
| trans-1,3-Dichloropropene | 0.46933 | 0.47969 | 0.47969 | 0.100 | -2.20720 | 20.0 | Averaged | |
| 2-Hexanone | 0.21575 | 0.21413 | 0.21413 | 0.100 | 0.74813 | 20.0 | Averaged | |
| 1,1,2-Trichloroethane | 0.28597 | 0.27343 | 0.27343 | 0.100 | 4.38341 | 20.0 | Averaged | |
| 1,3-Dichloropropane | 0.57821 | 0.56897 | 0.56897 | 0.100 | 1.59683 | 20.0 | Averaged | |
| Dibromochloromethane | 0.40528 | 0.39653 | 0.39653 | 0.100 | 2.15951 | 20.0 | Averaged | |
| Tetrachloroethene | 0.30185 | 0.28604 | 0.28604 | 0.200 | 5.23655 | 20.0 | Averaged | |
| 1,2-Dibromoethane | 0.36552 | 0.34923 | 0.34923 | 0.100 | 4.45574 | 20.0 | Averaged | |
| 1-Chlorohexane | 0.30406 | 0.29920 | 0.29920 | 0.100 | 1.60007 | 20.0 | Averaged | |
| Chlorobenzene | 1.00438 | 0.97180 | 0.97180 | 0.500 | 3.24355 | 20.0 | Averaged | |
| 1,1,1,2-Tetrachloroethane | 0.37452 | 0.36255 | 0.36255 | 0.100 | 3.19622 | 20.0 | Averaged | |
| Ethylbenzene | 0.51747 | 0.49284 | 0.49284 | 0.100 | 4.75948 | 20.0 | Averaged | |
| m,p-Xylenes | 0.63815 | 0.63322 | 0.63322 | 0.100 | 0.77240 | 20.0 | Averaged | |
| o-Xylene | 0.63677 | 0.61261 | 0.61261 | 0.300 | 3.79376 | 20.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

RunID VOA6_439273

## Volatiles by EPA 8260

**Instrument ID** VOA6.I
**Lab File ID** X061903.D
**Analysis Type** WATER
**Lab Sample ID** CCV

**Injection Date** 19-JUN-2023 11:20
**ICAL Date(s)** 15-JUN-2023 15-JUN-2023
**ICAL Times** 11:15 14:45
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| Styrene | 1.04887 | 1.06136 | 1.06136 | 0.300 | -1.19145 | 20.0 | Averaged | |
| Bromoform | 0.28254 | 0.27446 | 0.27446 | 0.100 | 2.85831 | 20.0 | Averaged | |
| Isopropylbenzene | 1.57393 | 1.50760 | 1.50760 | 0.100 | 4.21447 | 20.0 | Averaged | |
| 1,1,2,2-Tetrachloroethane | 0.87919 | 0.81427 | 0.81427 | 0.300 | 7.38441 | 20.0 | Averaged | |
| 1,2,3-Trichloropropane | 0.63044 | 0.59952 | 0.59952 | 0.100 | 4.90514 | 20.0 | Averaged | |
| n-Propylbenzene | 3.29025 | 3.22000 | 3.22000 | 0.100 | 2.13529 | 20.0 | Averaged | |
| Bromobenzene | 0.81493 | 0.77317 | 0.77317 | 0.100 | 5.12478 | 20.0 | Averaged | |
| 1,3,5-Trimethylbenzene | 2.41429 | 2.33477 | 2.33477 | 0.100 | 3.29371 | 20.0 | Averaged | |
| 2-Chlorotoluene | 2.08941 | 1.97108 | 1.97108 | 0.100 | 5.66345 | 20.0 | Averaged | |
| 4-Chlorotoluene | 2.33060 | 2.28590 | 2.28590 | 0.100 | 1.91818 | 20.0 | Averaged | |
| tert-Butylbenzene | 2.01139 | 1.91530 | 1.91530 | 0.100 | 4.77707 | 20.0 | Averaged | |
| 1,2,4-Trimethylbenzene | 2.43582 | 2.36041 | 2.36041 | 0.100 | 3.09622 | 20.0 | Averaged | |
| sec-Butylbenzene | 2.83678 | 2.71732 | 2.71732 | 0.100 | 4.21089 | 20.0 | Averaged | |
| p-Isopropyltoluene | 2.48362 | 2.40472 | 2.40472 | 0.100 | 3.17711 | 20.0 | Averaged | |
| 1,3-Dichlorobenzene | 1.45104 | 1.39299 | 1.39299 | 0.600 | 4.00064 | 20.0 | Averaged | |
| 1,4-Dichlorobenzene | 1.55314 | 1.47777 | 1.47777 | 0.400 | 4.85303 | 20.0 | Averaged | |
| n-Butylbenzene | 2.11532 | 2.18102 | 2.18102 | 0.500 | -3.10570 | 20.0 | Averaged | |
| 1,2-Dichlorobenzene | 1.43975 | 1.39329 | 1.39329 | 0.400 | 3.22706 | 20.0 | Averaged | |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 49.73865 | 0.14273 | 0.040 | 0.52271 | 20.0 | Linear | |
| 1,2,4-Trichlorobenzene | 1.00154 | 0.99014 | 0.99014 | 0.100 | 1.13840 | 20.0 | Averaged | |
| Hexachlorobutadiene | 0.44956 | 0.44757 | 0.44757 | 0.100 | 0.44438 | 20.0 | Averaged | |
| Naphthalene | 2.25463 | 2.23017 | 2.23017 | 0.200 | 1.08496 | 20.0 | Averaged | |
| 1,2,3-Trichlorobenzene | 0.92158 | 0.90611 | 0.90611 | 0.010 | 1.67848 | 20.0 | Averaged | |
| 94 1,2-Dichloroethylene (total | 0.50428 | 0.49612 | 0.49612 | 0.200 | 1.61786 | 20.0 | Averaged | |
| 95 Xylenes (total) | 0.59807 | 0.59096 | 0.59096 | 0.100 | 1.18776 | 20.0 | Averaged | |
| Cyclohexane | 0.63736 | 0.64692 | 0.64692 | 0.100 | -1.49880 | 20.0 | Averaged | |
| Freon TF | 50.0 | 56.69281 | 0.39554 | 0.100 | -13.38562 | 20.0 | Quadratic | |
| Methylcyclohexane | 0.69881 | 0.68722 | 0.68722 | 0.100 | 1.65804 | 20.0 | Averaged | |
| Methyl Acetate | 0.29595 | 0.27434 | 0.27434 | 0.100 | 7.30064 | 20.0 | Averaged | |
| Tert-butyl alcohol | 0.05134 | 0.04444 | 0.04444 | 0.005 | 13.45496 | 20.0 | Averaged | |
| Isopropyl alcohol | 0.02834 | 0.02445 | 0.02445 | 0.005 | 13.73807 | 20.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_439273

## Volatiles by EPA 8260

**Instrument ID** VOA6.I
**Lab File ID** X061916.D
**Analysis Type** WATER
**Lab Sample ID** CCV-END

**Injection Date** 19-JUN-2023 15:54
**ICAL Date(s)** 15-JUN-2023 15-JUN-2023
**ICAL Times** 11:15 14:45
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.00606 | 0.00576 | 0.00576 | 0.001 | 4.93313 | 50.0 | Averaged | |
| 1,3-Butadiene | 0.41435 | 0.43530 | 0.43530 | 0.100 | -5.05543 | 50.0 | Averaged | |
| Methacrylonitrile | 0.41256 | 0.41724 | 0.41724 | 0.100 | -1.13511 | 50.0 | Averaged | |
| Isobutyl Alcohol | 0.06519 | 0.06630 | 0.06630 | 0.005 | -1.70180 | 50.0 | Averaged | |
| Acetonitrile | 0.04850 | 0.04910 | 0.04910 | 0.005 | -1.23601 | 50.0 | Averaged | |
| Allyl Chloride | 1.09651 | 0.99311 | 0.99311 | 0.100 | 9.42919 | 50.0 | Averaged | |
| Propionitrile | 0.06047 | 0.06107 | 0.06107 | 0.010 | -0.98701 | 50.0 | Averaged | |
| trans-1,4-Dichloro-2-butene | 0.12170 | 0.11695 | 0.11695 | 0.050 | 3.89760 | 50.0 | Averaged | |
| Acetaldehyde | 200 | 201 | 0.02647 | 0.001 | -0.61254 | 50.0 | Linear | |
| Chloroprene | 0.16619 | 0.16086 | 0.16086 | 0.100 | 3.20660 | 50.0 | Averaged | |
| Ethyl Acetate | 0.50967 | 0.47658 | 0.47658 | 0.100 | 6.49248 | 50.0 | Averaged | |
| Methyl Methacrylate | 0.38707 | 0.41510 | 0.41510 | 0.100 | -7.24276 | 50.0 | Averaged | |
| Ethyl Methacrylate | 0.35838 | 0.31857 | 0.31857 | 0.100 | 11.10941 | 50.0 | Averaged | |
| Methyl Acrylate | 0.40496 | 0.42977 | 0.42977 | 0.100 | -6.12814 | 50.0 | Averaged | |
| Diisopropyl ether | 1.47464 | 1.39826 | 1.39826 | 0.100 | 5.17938 | 50.0 | Averaged | |
| Dicyclopentadiene | 2.79653 | 2.51173 | 2.51173 | 0.100 | 10.18401 | 50.0 | Averaged | |
| 1,2,3-Trimethylbenzene | 2.37667 | 2.28247 | 2.28247 | 0.100 | 3.96342 | 50.0 | Averaged | |
| Dichlorodifluoromethane | 50.0 | 45.74529 | 0.39369 | 0.100 | 8.50942 | 50.0 | Linear | |
| Chloromethane | 50.0 | 50.23014 | 0.53103 | 0.100 | -0.46029 | 50.0 | Linear | |
| Vinyl Chloride | 0.52511 | 0.54003 | 0.54003 | 0.100 | -2.84195 | 50.0 | Averaged | |
| Bromomethane | 0.30142 | 0.30373 | 0.30373 | 0.100 | -0.76714 | 50.0 | Averaged | |
| Chloroethane | 0.32098 | 0.33400 | 0.33400 | 0.100 | -4.05684 | 50.0 | Averaged | |
| Trichlorofluoromethane | 0.62401 | 0.65379 | 0.65379 | 0.100 | -4.77370 | 50.0 | Averaged | |
| Acrolein | 0.03103 | 0.03120 | 0.03120 | 0.010 | -0.56278 | 50.0 | Averaged | |
| Acetone | 100 | 91.88034 | 0.11982 | 0.100 | 8.11966 | 50.0 | Linear | |
| 1,1-Dichloroethene | 0.39145 | 0.39204 | 0.39204 | 0.100 | -0.15148 | 50.0 | Averaged | |
| Iodomethane | 100 | 89.98365 | 0.58206 | 0.100 | 10.01635 | 50.0 | Quadratic | |
| Acrylonitrile | 0.15871 | 0.14902 | 0.14902 | 0.050 | 6.10447 | 50.0 | Averaged | |
| Methylene Chloride | 0.55293 | 0.46730 | 0.46730 | 0.100 | 15.48779 | 50.0 | Averaged | |
| Methyl tert-butyl ether | 1.36625 | 1.26828 | 1.26828 | 0.100 | 7.17083 | 50.0 | Averaged | |
| Carbon Disulfide | 1.39384 | 1.09296 | 1.09296 | 0.100 | 21.58625 | 50.0 | Averaged | |
| trans-1,2-Dichloroethene | 0.46841 | 0.44170 | 0.44170 | 0.100 | 5.70182 | 50.0 | Averaged | |
| Vinyl Acetate | 1.25019 | 1.32286 | 1.32286 | 0.010 | -5.81260 | 50.0 | Averaged | |
| 1,1-Dichloroethane | 0.84382 | 0.76607 | 0.76607 | 0.200 | 9.21362 | 50.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_439273

## Volatiles by EPA 8260

**Instrument ID** VOA6.I
**Lab File ID** X061916.D
**Analysis Type** WATER
**Lab Sample ID** CCV-END

**Injection Date** 19-JUN-2023 15:54
**ICAL Date(s)** 15-JUN-2023 15-JUN-2023
**ICAL Times** 11:15 14:45
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.16455 | 0.14965 | 0.14965 | 0.100 | 9.05381 | 50.0 | Averaged | |
| 2,2-Dichloropropane | 50.0 | 49.85395 | 0.66394 | 0.100 | 0.29211 | 50.0 | Linear | |
| cis-1,2-Dichloroethene | 0.54016 | 0.49123 | 0.49123 | 0.100 | 9.05831 | 50.0 | Averaged | |
| Chloroform | 0.90821 | 0.87131 | 0.87131 | 0.200 | 4.06295 | 50.0 | Averaged | |
| Bromochloromethane | 0.28784 | 0.27314 | 0.27314 | 0.100 | 5.10474 | 50.0 | Averaged | |
| 30 Dibromofluoromethane | 50.0 | 51.03058 | 0.45568 | 0.100 | -2.06116 | 50.0 | Linear | |
| 1,1,1-Trichloroethane | 0.73406 | 0.71206 | 0.71206 | 0.100 | 2.99675 | 50.0 | Averaged | |
| 1,1-Dichloropropene | 0.41897 | 0.40607 | 0.40607 | 0.100 | 3.07839 | 50.0 | Averaged | |
| 1,2-Dichloroethane | 0.41982 | 0.43980 | 0.43980 | 0.100 | -4.75985 | 50.0 | Averaged | |
| Carbon Tetrachloride | 0.40293 | 0.38453 | 0.38453 | 0.100 | 4.56792 | 50.0 | Averaged | |
| 35 1,2-Dichloroethane-d4 | 50.0 | 51.63648 | 0.49751 | 0.100 | -3.27296 | 50.0 | Linear | |
| Benzene | 1.28613 | 1.24033 | 1.24033 | 0.500 | 3.56165 | 50.0 | Averaged | |
| Trichloroethene | 0.35461 | 0.33726 | 0.33726 | 0.200 | 4.89309 | 50.0 | Averaged | |
| Bromodichloromethane | 0.45495 | 0.43631 | 0.43631 | 0.200 | 4.09776 | 50.0 | Averaged | |
| 2-Chloroethylvinyl ether | 0.12311 | 0.10044 | 0.10044 | 0.001 | 18.41462 | 50.0 | Averaged | |
| 1,2-Dichloropropane | 0.33759 | 0.32957 | 0.32957 | 0.100 | 2.37391 | 50.0 | Averaged | |
| Dibromomethane | 0.21192 | 0.20890 | 0.20890 | 0.100 | 1.42639 | 50.0 | Averaged | |
| 4-Methyl-2-Pentanone | 0.32299 | 0.30084 | 0.30084 | 0.100 | 6.85679 | 50.0 | Averaged | |
| cis-1,3-Dichloropropene | 0.56095 | 0.51685 | 0.51685 | 0.200 | 7.86111 | 50.0 | Averaged | |
| 48 Toluene-d8 | 1.26411 | 1.20126 | 1.20126 | 0.100 | 4.97193 | 50.0 | Averaged | |
| Toluene | 1.46787 | 1.40860 | 1.40860 | 0.400 | 4.03737 | 50.0 | Averaged | |
| trans-1,3-Dichloropropene | 0.46933 | 0.47056 | 0.47056 | 0.100 | -0.26254 | 50.0 | Averaged | |
| 2-Hexanone | 0.21575 | 0.21144 | 0.21144 | 0.100 | 1.99812 | 50.0 | Averaged | |
| 1,1,2-Trichloroethane | 0.28597 | 0.26896 | 0.26896 | 0.100 | 5.94636 | 50.0 | Averaged | |
| 1,3-Dichloropropane | 0.57821 | 0.55874 | 0.55874 | 0.100 | 3.36716 | 50.0 | Averaged | |
| Dibromochloromethane | 0.40528 | 0.38867 | 0.38867 | 0.100 | 4.09957 | 50.0 | Averaged | |
| Tetrachloroethene | 0.30185 | 0.27105 | 0.27105 | 0.200 | 10.20291 | 50.0 | Averaged | |
| 1,2-Dibromoethane | 0.36552 | 0.34508 | 0.34508 | 0.100 | 5.59044 | 50.0 | Averaged | |
| 1-Chlorohexane | 0.30406 | 0.28696 | 0.28696 | 0.100 | 5.62345 | 50.0 | Averaged | |
| Chlorobenzene | 1.00438 | 0.96426 | 0.96426 | 0.500 | 3.99415 | 50.0 | Averaged | |
| 1,1,1,2-Tetrachloroethane | 0.37452 | 0.35250 | 0.35250 | 0.100 | 5.87889 | 50.0 | Averaged | |
| Ethylbenzene | 0.51747 | 0.48730 | 0.48730 | 0.100 | 5.83102 | 50.0 | Averaged | |
| m,p-Xylenes | 0.63815 | 0.62102 | 0.62102 | 0.100 | 2.68336 | 50.0 | Averaged | |
| o-Xylene | 0.63677 | 0.60403 | 0.60403 | 0.300 | 5.14107 | 50.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** VOA6_439273

## Volatiles by EPA 8260

**Instrument ID** VOA6.I
**Lab File ID** X061916.D
**Analysis Type** WATER
**Lab Sample ID** CCV-END

**Injection Date** 19-JUN-2023 15:54
**ICAL Date(s)** 15-JUN-2023 15-JUN-2023
**ICAL Times** 11:15 14:45
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| Styrene | 1.04887 | 1.04185 | 1.04185 | 0.300 | 0.66933 | 50.0 | Averaged | |
| Bromoform | 0.28254 | 0.27062 | 0.27062 | 0.100 | 4.21752 | 50.0 | Averaged | |
| Isopropylbenzene | 1.57393 | 1.47646 | 1.47646 | 0.100 | 6.19288 | 50.0 | Averaged | |
| 1,1,2,2-Tetrachloroethane | 0.87919 | 0.78562 | 0.78562 | 0.300 | 10.64304 | 50.0 | Averaged | |
| 1,2,3-Trichloropropane | 0.63044 | 0.65842 | 0.65842 | 0.100 | -4.43791 | 50.0 | Averaged | |
| n-Propylbenzene | 3.29025 | 3.05930 | 3.05930 | 0.100 | 7.01939 | 50.0 | Averaged | |
| Bromobenzene | 0.81493 | 0.73541 | 0.73541 | 0.100 | 9.75885 | 50.0 | Averaged | |
| 1,3,5-Trimethylbenzene | 2.41429 | 2.23859 | 2.23859 | 0.100 | 7.27758 | 50.0 | Averaged | |
| 2-Chlorotoluene | 2.08941 | 1.89380 | 1.89380 | 0.100 | 9.36202 | 50.0 | Averaged | |
| 4-Chlorotoluene | 2.33060 | 2.21891 | 2.21891 | 0.100 | 4.79249 | 50.0 | Averaged | |
| tert-Butylbenzene | 2.01139 | 1.82475 | 1.82475 | 0.100 | 9.27898 | 50.0 | Averaged | |
| 1,2,4-Trimethylbenzene | 2.43582 | 2.28183 | 2.28183 | 0.100 | 6.32224 | 50.0 | Averaged | |
| sec-Butylbenzene | 2.83678 | 2.58104 | 2.58104 | 0.100 | 9.01505 | 50.0 | Averaged | |
| p-Isopropyltoluene | 2.48362 | 2.31818 | 2.31818 | 0.100 | 6.66135 | 50.0 | Averaged | |
| 1,3-Dichlorobenzene | 1.45104 | 1.34169 | 1.34169 | 0.600 | 7.53624 | 50.0 | Averaged | |
| 1,4-Dichlorobenzene | 1.55314 | 1.41783 | 1.41783 | 0.400 | 8.71217 | 50.0 | Averaged | |
| n-Butylbenzene | 2.11532 | 2.08517 | 2.08517 | 0.500 | 1.42548 | 50.0 | Averaged | |
| 1,2-Dichlorobenzene | 1.43975 | 1.35078 | 1.35078 | 0.400 | 6.17956 | 50.0 | Averaged | |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 46.37307 | 0.13302 | 0.040 | 7.25386 | 50.0 | Linear | |
| 1,2,4-Trichlorobenzene | 1.00154 | 0.95726 | 0.95726 | 0.100 | 4.42124 | 50.0 | Averaged | |
| Hexachlorobutadiene | 0.44956 | 0.40995 | 0.40995 | 0.100 | 8.81235 | 50.0 | Averaged | |
| Naphthalene | 2.25463 | 2.15419 | 2.15419 | 0.200 | 4.45510 | 50.0 | Averaged | |
| 1,2,3-Trichlorobenzene | 0.92158 | 0.88702 | 0.88702 | 0.010 | 3.75029 | 50.0 | Averaged | |
| 94 1,2-Dichloroethylene (total | 0.50428 | 0.46646 | 0.46646 | 0.200 | 7.49946 | 50.0 | Averaged | |
| 95 Xylenes (total) | 0.59807 | 0.58939 | 0.58939 | 0.100 | 1.45051 | 50.0 | Averaged | |
| Cyclohexane | 0.63736 | 0.64349 | 0.64349 | 0.100 | -0.96159 | 50.0 | Averaged | |
| Freon TF | 50.0 | 54.22596 | 0.37794 | 0.100 | -8.45192 | 50.0 | Quadratic | |
| Methylcyclohexane | 0.69881 | 0.69002 | 0.69002 | 0.100 | 1.25806 | 50.0 | Averaged | |
| Methyl Acetate | 0.29595 | 0.28088 | 0.28088 | 0.100 | 5.09167 | 50.0 | Averaged | |
| Tert-butyl alcohol | 0.05134 | 0.04221 | 0.04221 | 0.005 | 17.78429 | 50.0 | Averaged | |
| Isopropyl alcohol | 0.02834 | 0.02280 | 0.02280 | 0.005 | 19.53552 | 50.0 | Averaged | |

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right solutions.
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Form 8

# Internal Standard Area and RT Summary

## Volatiles by EPA 8260

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/23/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

# Form 8 - Internal Standard Area and RT Summary

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

## Volatiles by EPA 8260

| VOA6_439205 | | Pentafluorobenzene | | | | 1,4-Difluorobenzene | | | | Chlorobenzene | | | | 1,4-Dichlorobenze | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | File ID | Area | # | RT | # | Area | # | RT | # | Area | # | RT | # | Area | # | RT | # |
| 12-HOUR STD (CCV) | X061703.D | 464761 | # | 4.18 | # | 718789 | # | 4.97 | # | 679450 | # | 7.67 | # | 385495 | # | 9.66 | # |
| HS23060999-01 | X061724.D | 489011 | | 4.18 | | 715022 | | 4.97 | | 646148 | | 7.67 | | 338724 | | 9.66 | |
| HS23060999-02 | X061725.D | 496361 | | 4.18 | | 721011 | | 4.97 | | 638889 | | 7.67 | | 315655 | | 9.66 | |
| HS23060999-05 | X061726.D | 477430 | | 4.18 | | 696975 | | 4.97 | | 612321 | | 7.67 | | 313323 | | 9.66 | |
| HS23060999-06 | X061727.D | 490038 | | 4.18 | | 721930 | | 4.97 | | 628779 | | 7.67 | | 312590 | | 9.66 | |
| VBLKW-230617 | X061707.D | 497634 | | 4.18 | | 733360 | | 4.97 | | 649753 | | 7.67 | | 331139 | | 9.66 | |
| VLCSW-230617 | X061705.D | 467611 | | 4.18 | | 727193 | | 4.97 | | 681365 | | 7.67 | | 388069 | | 9.66 | |
| MS-ZZZZZZMS | X061710.D | 499166 | | 4.18 | | 726571 | | 4.97 | | 647565 | | 7.67 | | 351472 | | 9.66 | |
| ZZZZZZMSD | X061711.D | 506199 | | 4.18 | | 741804 | | 4.97 | | 668832 | | 7.67 | | 359957 | | 9.66 | |

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H 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** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

## Volatiles by EPA 8260

| VOA6_439273 | | Pentafluorobenzene | | | | 1,4-Difluorobenzene | | | | Chlorobenzene | | | | 1,4-Dichlorobenze | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | File ID | Area | # | RT | # | Area | # | RT | # | Area | # | RT | # | Area | # | RT | # |
| 12-HOUR STD (CCV) | X061903.D | 477704 | # | 4.18 | # | 748122 | # | 4.97 | # | 705857 | # | 7.67 | # | 400720 | # | 9.66 | # |
| HS23060999-03 | X061915.D | 448676 | | 4.18 | | 649631 | | 4.97 | | 579865 | | 7.67 | | 298072 | | 9.66 | |
| HS23060999-03 | X061912.D | 447571 | | 4.18 | | 661183 | | 4.97 | | 586649 | | 7.67 | | 305744 | | 9.66 | |
| HS23060999-04 | X061911.D | 456285 | | 4.18 | | 666186 | | 4.97 | | 592511 | | 7.67 | | 298460 | | 9.66 | |
| HS23060999-04 | X061910.D | 449787 | | 4.18 | | 661882 | | 4.97 | | 576229 | | 7.67 | | 284486 | | 9.66 | |
| HS23060999-07 | X061909.D | 454501 | | 4.18 | | 657516 | | 4.97 | | 588079 | | 7.67 | | 304514 | | 9.66 | |
| HS23060999-07MS | X061913.D | 456917 | | 4.18 | | 670941 | | 4.97 | | 624897 | | 7.67 | | 353195 | | 9.66 | |
| HS23060999-07MSD | X061914.D | 455333 | | 4.18 | | 666139 | | 4.97 | | 625497 | | 7.67 | | 346615 | | 9.66 | |
| HS23060999-08 | X061908.D | 450078 | | 4.18 | | 665202 | | 4.97 | | 601485 | | 7.67 | | 315937 | | 9.66 | |
| VBLKW-230619 | X061907.D | 439722 | | 4.18 | | 639123 | | 4.97 | | 573407 | | 7.67 | | 290784 | | 9.66 | |
| VLCSW-230619 | X061905.D | 427727 | | 4.18 | | 664785 | | 4.97 | | 627843 | | 7.67 | | 373737 | | 9.66 | |

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H 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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# Analysis Run Log

## Volatiles by EPA 8260

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/23/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

# Form 13 - Analysis Run Log

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

RunID
VOA6-438076

## Volatiles by EPA 8260

**Run ID** VOA6_438076 **Start Date** 06/15/23 **EndDate** 06/15/23

| Inj. Time | Client Sample ID | Type | Lab Sample ID | File ID | Analysis Date | DF |
|---|---|---|---|---|---|---|
| 10:54 | BFB | TUNE | BFB | X061501.D | 06/15/23 | 1 |
| 11:15 | VSTD000.25 | ICAL1 | VSTD000.25 | X061502.D | 06/15/23 | 1 |
| 11:36 | VSTD000.5 | ICAL2 | VSTD000.5 | X061503.D | 06/15/23 | 1 |
| 12:18 | VSTD001 | ICAL3 | VSTD001 | X061504.D | 06/15/23 | 1 |
| 12:39 | VSTD002 | ICAL4 | VSTD002 | X061505.D | 06/15/23 | 1 |
| 13:00 | VSTD005 | ICAL5 | VSTD005 | X061506.D | 06/15/23 | 1 |
| 13:21 | VSTD020 | ICAL6 | VSTD020 | X061507.D | 06/15/23 | 1 |
| 13:42 | VSTD050 | ICAL7 | VSTD050 | X061508.D | 06/15/23 | 1 |
| 14:03 | VSTD100 | ICAL8 | VSTD100 | X061509.D | 06/15/23 | 1 |
| 14:24 | VSTD150 | ICAL9 | VSTD150 | X061510.D | 06/15/23 | 1 |
| 14:45 | VSTD200 | ICAL | VSTD200 | X061511.D | 06/15/23 | 1 |
| 15:47 | CCV | ICV | CCV | X061514.D | 06/15/23 | 1 |

# Form 13 - Analysis Run Log

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

RunID
VOA6-439205

## Volatiles by EPA 8260

**Run ID** VOA6_439205 **Start Date** 06/17/23 **EndDate** 06/17/23

| Inj. Time | Client Sample ID | Type | Lab Sample ID | File ID | Analysis Date | DF |
|---|---|---|---|---|---|---|
| 11:17 | BFB | TUNE | BFB | X061701.D | 06/17/23 | 1 |
| 11:58 | CCV | CCV | CCV | X061703.D | 06/17/23 | 1 |
| 12:19 | CCB | CCB | CCB | X061704.D | 06/17/23 | 1 |
| 12:40 | VLCSW-230617 | LCS | VLCSW-230617 | X061705.D | 06/17/23 | 1 |
| 13:23 | VBLKW-230617 | MBLK | VBLKW-230617 | X061707.D | 06/17/23 | 1 |
| 13:44 | HS23060722-10 | SAMP | ZZZZZZZZZZ | X061708.D | 06/17/23 | 1 |
| 14:05 | HS23060722-05 | SAMP | ZZZZZZZZZZ | X061709.D | 06/17/23 | 1 |
| 14:26 | HS23060722-05MS | MS | ZZZZZZMS | X061710.D | 06/17/23 | 1 |
| 14:47 | HS23060722-05MSD | MSD | ZZZZZZMSD | X061711.D | 06/17/23 | 1 |
| 15:29 | HS23060739-07 | SAMP | ZZZZZZZZZZ | X061713.D | 06/17/23 | 1 |
| 15:50 | HS23060722-01 | SAMP | ZZZZZZZZZZ | X061714.D | 06/17/23 | 1 |
| 16:11 | HS23060722-02 | SAMP | ZZZZZZZZZZ | X061715.D | 06/17/23 | 1 |
| 16:32 | HS23060722-03 | SAMP | ZZZZZZZZZZ | X061716.D | 06/17/23 | 1 |
| 16:53 | HS23060722-04 | SAMP | ZZZZZZZZZZ | X061717.D | 06/17/23 | 1 |
| 17:14 | HS23060722-06 | SAMP | ZZZZZZZZZZ | X061718.D | 06/17/23 | 1 |
| 17:35 | HS23060722-07 | SAMP | ZZZZZZZZZZ | X061719.D | 06/17/23 | 1 |
| 17:56 | HS23060722-08 | SAMP | ZZZZZZZZZZ | X061720.D | 06/17/23 | 1 |
| 18:17 | HS23060722-09 | SAMP | ZZZZZZZZZZ | X061721.D | 06/17/23 | 1 |
| 18:38 | HS23060739-05 | SAMP | ZZZZZZZZZZ | X061722.D | 06/17/23 | 1 |
| 18:59 | HS23060739-06 | SAMP | ZZZZZZZZZZ | X061723.D | 06/17/23 | 1 |
| 19:20 | HS23060999-01 | SAMP | 102_061323 | X061724.D | 06/17/23 | 1 |
| 19:41 | HS23060999-02 | SAMP | 18CPTMW03SW_0613 | X061725.D | 06/17/23 | 1 |
| 20:02 | HS23060999-05 | SAMP | 18CPTMW22DW_0613 | X061726.D | 06/17/23 | 1 |
| 20:23 | HS23060999-06 | SAMP | 18CPTMW22R_061323 | X061727.D | 06/17/23 | 1 |
| 20:44 | HS23060739-01 | SAMP | ZZZZZZZZZZ | X061728.D | 06/17/23 | 1 |
| 21:05 | HS23060739-03 | SAMP | ZZZZZZZZZZ | X061729.D | 06/17/23 | 1 |
| 21:27 | HS23060739-04 | SAMP | ZZZZZZZZZZ | X061730.D | 06/17/23 | 1 |
| 21:47 | CCV-END | CCV_END | CCV-END | X061731.D | 06/17/23 | 1 |

# Form 13 - Analysis Run Log

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

RunID
VOA6-439273

## Volatiles by EPA 8260

**Run ID** VOA6_439273 **Start Date** 06/19/23 **EndDate** 06/19/23

| Inj. Time | Client Sample ID | Type | Lab Sample ID | File ID | Analysis Date | DF |
|---|---|---|---|---|---|---|
| 10:38 | BFB | TUNE | BFB | X061901.D | 06/19/23 | 1 |
| 11:20 | CCV | CCV | CCV | X061903.D | 06/19/23 | 1 |
| 11:41 | CCB | CCB | CCB | X061904.D | 06/19/23 | 1 |
| 12:02 | VLCSW-230619 | LCS | VLCSW-230619 | X061905.D | 06/19/23 | 1 |
| 12:44 | VBLKW-230619 | MBLK | VBLKW-230619 | X061907.D | 06/19/23 | 1 |
| 13:05 | HS23060999-08 | SAMP | Trip Blank | X061908.D | 06/19/23 | 1 |
| 13:26 | HS23060999-07 | SAMP | 18CPTMW22SW_0613 | X061909.D | 06/19/23 | 1 |
| 13:47 | HS23060999-04 | SAMP | MW14_061323 | X061910.D | 06/19/23 | 10 |
| 14:08 | HS23060999-04 | SAMP | MW14_061323 | X061911.D | 06/19/23 | 100 |
| 14:29 | HS23060999-03 | SAMP | 120_061323 | X061912.D | 06/19/23 | 25 |
| 14:50 | HS23060999-07MS | MS | HS23060999-07MS | X061913.D | 06/19/23 | 1 |
| 15:12 | HS23060999-07MSD | MSD | HS23060999-07MSD | X061914.D | 06/19/23 | 1 |
| 15:33 | HS23060999-03 | SAMP | 120_061323 | X061915.D | 06/19/23 | 250 |
| 15:54 | CCV-END | CCV_END | CCV-END | X061916.D | 06/19/23 | 1 |

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# Raw Data VOA6 438076

## Volatiles by EPA 8260

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/23/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061501.D Page 1
Report Date: 15-Jun-2023 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061501.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 15-JUN-2023 10:54
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vf | 1.000 | Volumetric correction factor |
| Vi | 2.000 | Injection Volume |
| Cpnd Variable | | Local Compound Variable |

| | | | | | CONCENTRATIONS ON-COL ( ug/L) | FINAL ( ug/l) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| RT | EXP RT | REL RT | MASS | RESPONSE | | | | |
| 1 bfb | | | | | | | CAS #: 460-00-4 | |
| 8.691 | 8.889 | ( 0.000) | 95 | 91504 | | | 0.00- 100.00 | 100.00 |
| 8.691 | 8.889 | ( 0.000) | 50 | 17024 | | | 15.00- 40.00 | 18.60 |
| 8.691 | 8.889 | ( 0.000) | 75 | 44272 | | | 30.00- 60.00 | 48.38 |
| 8.691 | 8.889 | ( 0.000) | 96 | 6495 | | | 5.00- 9.00 | 7.10 |
| 8.691 | 8.889 | ( 0.000) | 173 | 533 | | | 0.00- 2.00 | 0.74 |
| 8.691 | 8.889 | ( 0.000) | 174 | 72064 | | | 50.00- 0.00 | 78.76 |
| 8.691 | 8.889 | ( 0.000) | 175 | 5792 | | | 5.00- 9.00 | 8.04 |
| 8.691 | 8.889 | ( 0.000) | 176 | 71408 | | | 95.00- 101.00 | 99.09 |
| 8.691 | 8.889 | ( 0.000) | 177 | 5330 | | | 5.00- 9.00 | 7.46 |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 18.60 |
| 75 | 30.00 - 60.00% of mass 95 | 48.38 |
| 96 | 5.00 - 9.00% of mass 95 | 7.10 |
| 173 | Less than 2.00% of mass 174 | 0.58 ( 0.74) |
| 174 | Greater than 50.00% of mass 95 | 78.76 |
| 175 | 5.00 - 9.00% of mass 174 | 6.33 ( 8.04) |
| 176 | 95.00 - 101.00% of mass 174 | 78.04 ( 99.09) |
| 177 | 5.00 - 9.00% of mass 176 | 5.82 ( 7.46) |

Data File: X061501.D
Spectrum: Scan 2160 ( 8.68)
Location of Maximum: 95.00
Number of points: 91

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 732 | 62.00 | 3604 | 92.10 | 1898 | 141.90 | 68 |
| 37.10 | 4114 | 63.00 | 2982 | 93.00 | 3456 | 143.00 | 777 |
| 38.10 | 3477 | 63.90 | 141 | 94.00 | 11246 | 143.90 | 94 |
| 39.10 | 1745 | 64.80 | 123 | 95.00 | 91504 | 147.70 | 291 |
| 40.00 | 1863 | 66.90 | 341 | 96.00 | 6495 | 148.80 | 125 |
| 41.10 | 52 | 68.00 | 9377 | 96.90 | 224 | 149.70 | 51 |
| 42.00 | 50 | 69.10 | 8186 | 104.00 | 204 | 151.90 | 69 |
| 42.90 | 82 | 70.00 | 449 | 104.80 | 127 | 152.80 | 64 |
| 44.10 | 1699 | 72.00 | 505 | 106.00 | 388 | 154.80 | 170 |
| 45.00 | 935 | 73.00 | 3827 | 106.90 | 76 | 156.90 | 174 |
| 46.00 | 105 | 74.10 | 13173 | 109.90 | 113 | 157.70 | 64 |
| 47.10 | 1295 | 75.10 | 44272 | 110.80 | 95 | 158.80 | 71 |
| 48.00 | 358 | 76.00 | 3684 | 115.10 | 123 | 169.90 | 113 |
| 49.00 | 3460 | 76.90 | 535 | 115.90 | 365 | 172.80 | 533 |
| 50.10 | 17024 | 77.90 | 379 | 116.90 | 632 | 173.90 | 72064 |
| 51.10 | 5327 | 78.90 | 2312 | 117.90 | 274 | 174.90 | 5792 |
| 52.00 | 282 | 80.00 | 561 | 118.90 | 458 | 175.90 | 71408 |
| 54.80 | 200 | 80.90 | 2487 | 128.00 | 326 | 176.90 | 5330 |
| 56.00 | 1410 | 81.90 | 556 | 128.80 | 272 | 178.00 | 84 |
| 57.00 | 1995 | 86.00 | 91 | 130.00 | 338 | 186.00 | 171 |
| 57.90 | 156 | 86.90 | 3763 | 135.00 | 109 | 191.00 | 88 |
| 59.90 | 837 | 87.90 | 3752 | 136.90 | 179 | 262.00 | 65 |
| 61.00 | 4172 | 90.90 | 273 | 140.90 | 1058 | | |

Data File: \\nahstws005\target\chem\voa6.i\x230615.b\x061501.d Page 1

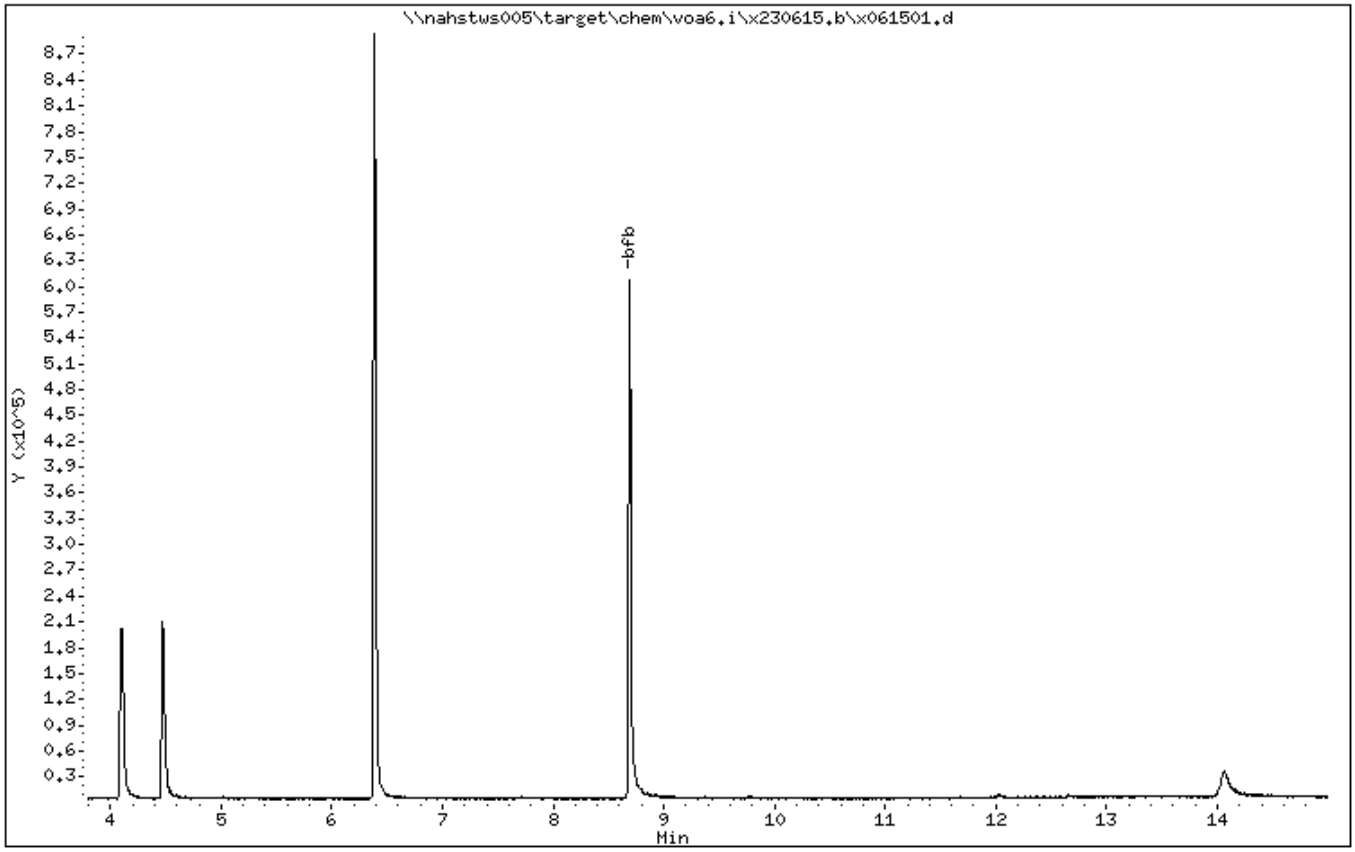
Date : 15-JUN-2023 10:54

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa6.i\x230615.b\x061501.d
Inj Date  : 15-JUN-2023 10:54
InstruID  : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061502.D  Page 1
Report Date: 20-Jun-2023 18:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061502.D
Lab Smp Id: VSTD000.25  Client Smp ID: VSTD000.25
Inj Date  : 15-JUN-2023 11:15
Operator  : PC  Inst ID: voa6.i
Smp Info  : VSTD000.25;VSTD000.25;1;1;
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 11:15  Cal File: X061502.D
Als bottle: 2  Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 00000_8260.sub
Target Version:  4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * | 1 Pentafluorobenzene | 168 | 4.181 | 4.181 | (1.000) | 494932 | 50.0000 | |
| | 6 Bromomethane | 94 | 1.343 | 1.344 | (0.321) | 1702 | 0.25000 | 0.57 |
| | 10 Acetone | 43 | 1.977 | 1.973 | (0.473) | 3259 | 0.50000 | 2.26 |
| | 13 Acetonitrile | 39 | 2.206 | 2.202 | (0.528) | 1535 | 2.50000 | 3.19(a) |
| | 15 Iodomethane | 142 | 2.029 | 2.030 | (0.485) | 1365 | 0.50000 | 2.53(T) |
| | 17 Methylene Chloride | 84 | 2.307 | 2.307 | (0.552) | 5303 | 0.25000 | 0.96 |
| * | 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 766330 | 50.0000 | |
| | 42 1,2-Dichloropropane | 63 | 5.441 | 5.437 | (1.096) | 1532 | 0.25000 | 0.29(a) |
| | 43 2-Nitropropane | 43 | 6.352 | 5.966 | (1.519) | 2352 | 0.25000 | 1.76(Ta) |
| | 45 4-Methyl-2-Pentanone | 43 | 6.352 | 6.322 | (0.828) | 2352 | 0.50000 | 0.52(a) |
| | 46 cis-1,3-Dichloropropene | 75 | 6.175 | 6.153 | (1.244) | 2487 | 0.25000 | 0.28(a) |
| * | 47 Chlorobenzene-d5 | 117 | 7.667 | 7.668 | (1.000) | 699301 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.400 | 6.386 | (0.835) | 9354 | 0.25000 | 0.52(a) |
| | 49 Ethyl Methacrylate | 69 | 6.738 | 6.708 | (1.357) | 997 | 0.25000 | 0.18(a) |
| | 50 Toluene | 91 | 6.464 | 6.445 | (0.843) | 6514 | 0.25000 | 0.31(a) |
| | 52 2-Hexanone | 43 | 7.139 | 7.083 | (0.931) | 730 | 0.50000 | 0.24(Ta) |
| | 53 1,1,2-Trichloroethane | 83 | 6.843 | 6.835 | (0.892) | 1411 | 0.25000 | 0.35(a) |
| | 54 1,3-Dichloropropane | 76 | 6.993 | 6.978 | (0.912) | 3023 | 0.25000 | 0.37(a) |
| | 55 Dibromochloromethane | 129 | 7.184 | 7.173 | (0.937) | 1999 | 0.25000 | 0.35(a) |
| | 56 Tetrachloroethene | 164 | 6.940 | 6.925 | (0.905) | 1096 | 0.25000 | 0.25(a) |
| | 57 1,2-Dibromoethane | 107 | 7.281 | 7.259 | (0.950) | 1818 | 0.25000 | 0.35(a) |

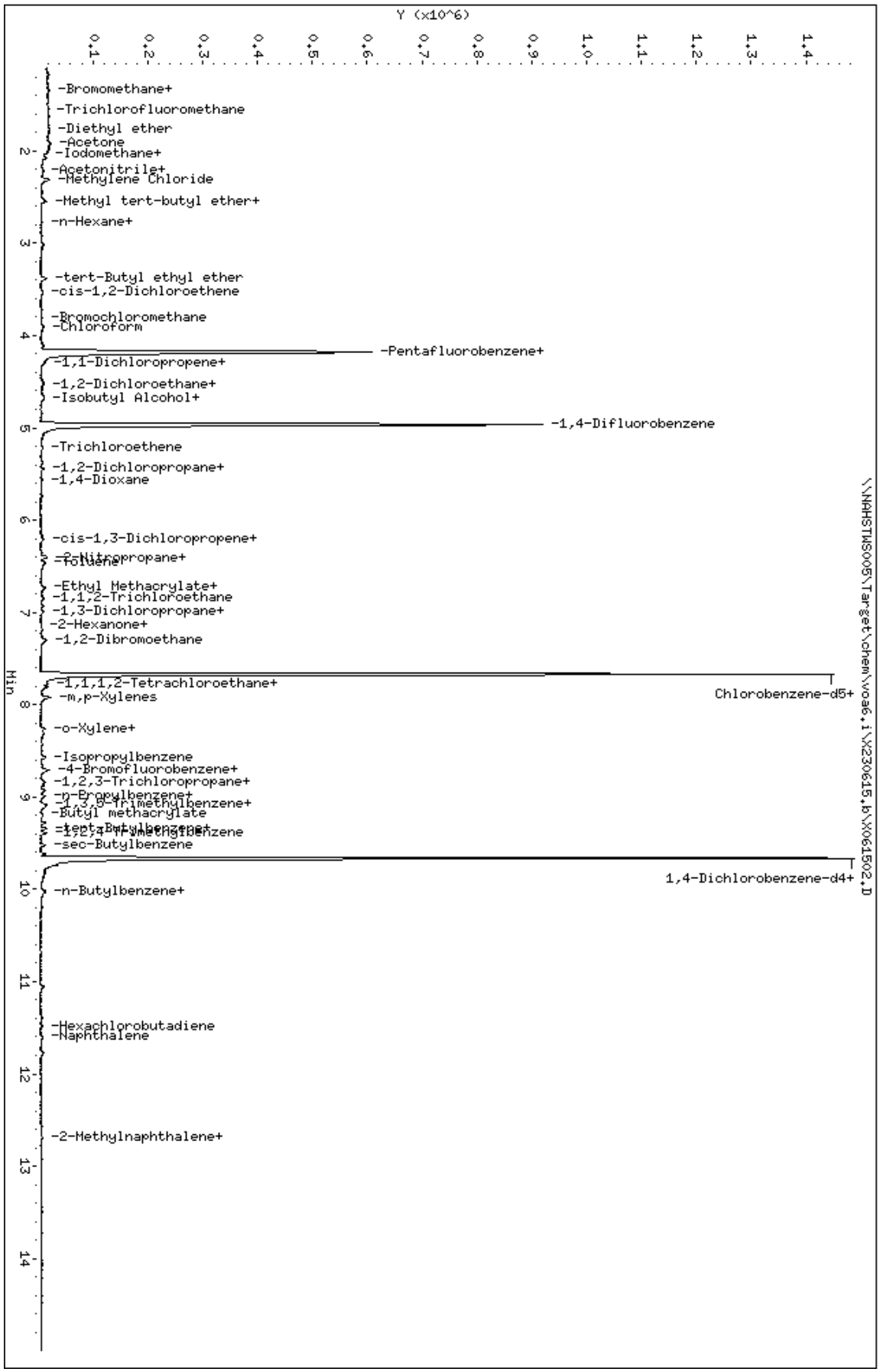
| | | | | | | |
|---|---|---|---|---|---|---|
| 58 1-Chlorohexane | 55 | 7.716 | 7.694 (1.554) | 1009 | 0.25000 | 0.21(a) |
| 59 Chlorobenzene | 112 | 7.697 | 7.690 (1.004) | 4842 | 0.25000 | 0.34(a) |

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061502.D Page 2
Report Date: 20-Jun-2023 18:25

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 60 | 1,1,1,2-Tetrachloroethane | 131 | 7.776 | 7.773 | (1.014) | 1838 | 0.25000 | 0.35(a) |
| 61 | Ethylbenzene | 106 | 7.810 | 7.799 | (1.019) | 2138 | 0.25000 | 0.29(a) |
| 62 | m,p-Xylenes | 106 | 7.922 | 7.900 | (1.033) | 4853 | 0.50000 | 0.54(a) |
| 63 | o-Xylene | 106 | 8.260 | 8.237 | (1.077) | 2870 | 0.25000 | 0.32(a) |
| 64 | Styrene | 104 | 8.301 | 8.256 | (1.083) | 4358 | 0.25000 | 0.29(a) |
| 67 | Isopropylbenzene | 105 | 8.567 | 8.560 | (1.117) | 6739 | 0.25000 | 0.30(a) |
| $ 69 | 4-Bromofluorobenzene | 95 | 8.710 | 8.687 | (1.136) | 6918 | 0.25000 | 0.48(a) |
| * 70 | 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.658 | (1.000) | 377299 | 50.0000 | |
| 71 | 1,2,3-Trichloropropane | 75 | 8.878 | 8.863 | (0.919) | 1462 | 0.25000 | 0.30(a) |
| 73 | n-Propylbenzene | 91 | 8.927 | 8.908 | (0.924) | 7862 | 0.25000 | 0.31(a) |
| 74 | Bromobenzene | 156 | 8.822 | 8.803 | (0.913) | 2206 | 0.25000 | 0.35(a) |
| 75 | 1,3,5-Trimethylbenzene | 105 | 9.077 | 9.066 | (0.939) | 5834 | 0.25000 | 0.32(a) |
| 76 | 2-Chlorotoluene | 91 | 8.991 | 8.972 | (0.931) | 6413 | 0.25000 | 0.40(a) |
| 77 | 4-Chlorotoluene | 91 | 9.103 | 9.070 | (0.942) | 6038 | 0.25000 | 0.34(a) |
| 78 | tert-Butylbenzene | 119 | 9.336 | 9.336 | (0.966) | 4660 | 0.25000 | 0.30(a) |
| 79 | 1,2,4-Trimethylbenzene | 105 | 9.392 | 9.377 | (0.972) | 6265 | 0.25000 | 0.34(a) |
| 81 | sec-Butylbenzene | 105 | 9.519 | 9.519 | (0.985) | 6772 | 0.25000 | 0.31(a) |
| 82 | p-Isopropyltoluene | 119 | 9.658 | 9.647 | (1.000) | 5545 | 0.25000 | 0.29(a) |
| 83 | 1,3-Dichlorobenzene | 146 | 9.609 | 9.602 | (0.995) | 3815 | 0.25000 | 0.34(a) |
| 84 | 1,4-Dichlorobenzene | 146 | 9.688 | 9.681 | (1.003) | 4582 | 0.25000 | 0.39(a) |
| 87 | n-Butylbenzene | 91 | 10.033 | 9.992 | (1.038) | 2862 | 0.25000 | 0.17(a) |
| 88 | 1,2-Dichlorobenzene | 146 | 10.014 | 9.992 | (1.036) | 2957 | 0.25000 | 0.27(a) |
| 91 | Hexachlorobutadiene | 225 | 11.491 | 11.476 | (1.189) | 911 | 0.25000 | 0.26(a) |
| 92 | Naphthalene | 128 | 11.607 | 11.540 | (1.201) | 3349 | 0.25000 | 0.19(a) |
| 141 | Cyclohexane | 56 | 4.177 | 4.121 | (0.999) | 7819 | 0.25000 | 1.23(a) |
| 147 | Methylcyclohexane | 55 | 5.377 | 5.381 | (1.083) | 1111 | 0.25000 | 0.10(a) |
| 135 | 1,4-Dioxane | 88 | 5.624 | 5.598 | (1.345) | 279 | 5.00000 | 4.65(aM) |
| 136 | n-Hexane | 57 | 2.772 | 2.776 | (0.663) | 805 | 0.25000 | (Ta) |
| 139 | Diethyl ether | 59 | 1.767 | 1.760 | (0.423) | 1156 | 0.25000 | 0.37(a) |
| 149 | Isopropyl alcohol | 45 | 2.104 | 2.093 | (0.503) | 1938 | 5.00000 | 6.90(T) |
| 160 | 2-Methylnaphthalene | 142 | 12.694 | 12.634 | (1.314) | 824 | 0.25000 | 0.11(a) |
| 166 | 1,2,3-Trimethylbenzene | 105 | 9.740 | 9.729 | (1.008) | 6314 | 0.25000 | 0.35(a) |
| 174 | tert-Amyl methyl ether | 73 | 4.669 | 4.665 | (1.117) | 6862 | 0.25000 | 0.43(a) |
| 175 | tert-Butyl ethyl ether | 59 | 3.379 | 3.379 | (0.808) | 5136 | 0.25000 | 0.33(a) |
| 176 | tert-Amyl alcohol | 59 | 4.639 | 4.612 | (1.109) | 2691 | 5.00000 | 6.47 |
| 151 | 4-Methyl-2-pentanol | 45 | 6.730 | 6.708 | (1.356) | 7887 | 5.00000 | 6.47 |
| 180 | 1-Methylnaphthalene | 142 | 12.694 | 12.634 | (1.314) | 824 | 0.25000 | (a) |
| 140 | 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.279) | 1108 | 0.25000 | 0.27(a) |
| 162 | Butyl acrylate | 55 | 8.323 | 8.249 | (1.086) | 733 | 0.25000 | 0.61(a) |
| 164 | Dicyclopentadiene | 66 | 9.677 | 9.681 | (1.002) | 13171 | 0.25000 | 0.62(a) |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 2586 | 0.50000 | (a) |
| 134 | Cyclohexanone | 55 | 8.653 | 8.642 | (0.896) | 2230 | 5.00000 | (a) |
| 150 | Allyl alcohol | 57 | 2.772 | 2.772 | (0.663) | 805 | 5.00000 | (a) |
| 200 | Dimethyl Disulfide | 94 | 6.209 | 6.194 | (0.810) | 3528 | 0.25000 | 0.34(a) |

QC Flag Legend

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




Data File: \\NAHSTWS005\Target\chem\voa6_i\X230615_b\X061502.D
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Client ID: VSTD000.25
Sample Info: VSTD000.25;VSTD000.25;1;1;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6_i
Operator: PC
Column diameter: 0.18

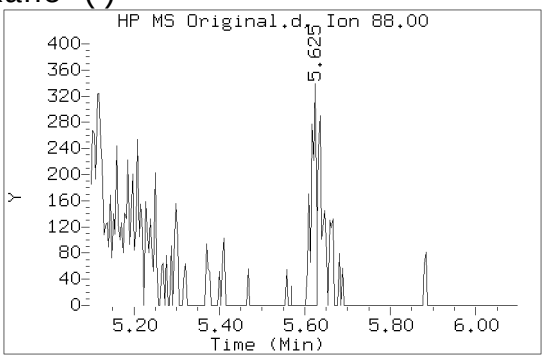
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LabSampID : VSTD000.25

1,4-Dioxane ()

Reason Code:

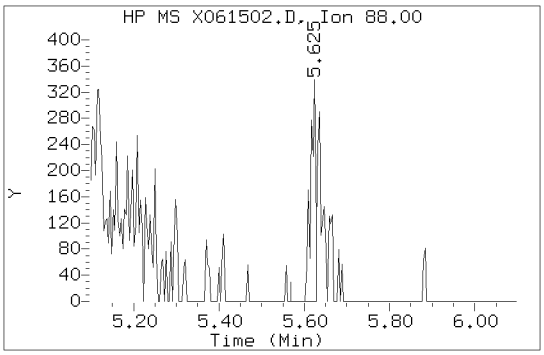
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20-Jun-2023
18:22
linh
pham



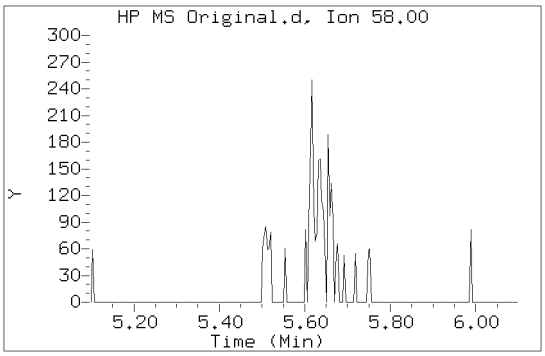

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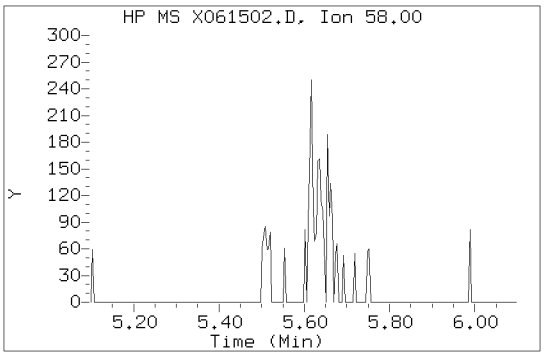

BEFORE

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pham




AFTER

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HEIGHT
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20-Jun-2023
18:24
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D  Page 1
Report Date: 20-Jun-2023 18:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Lab Smp Id: VSTD000.5  Client Smp ID: VSTD000.5
Inj Date  : 15-JUN-2023 11:36
Operator  : PC  Inst ID: voa6.i
Smp Info  : VSTD000.5;VSTD000.5;1;2;
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 11:36  Cal File: X061503.D
Als bottle: 3  Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 00000_8260.sub
Target Version:  4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * | 1 Pentafluorobenzene | 168 | 4.181 | 4.181 | (1.000) | 480661 | 50.0000 | |
| | 2 Dichlorodifluoromethane | 85 | 0.973 | 0.976 | (0.233) | 2615 | 0.50000 | 0.95(M) |
| | 3 Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 3301 | 0.50000 | 1.66(M) |
| | 4 Propionitrile | 54 | 3.709 | 3.653 | (0.887) | 2622 | 5.00000 | 4.51(aM) |
| | 5 Vinyl Chloride | 62 | 1.145 | 1.149 | (0.274) | 2917 | 0.50000 | 0.57(M) |
| | 6 Bromomethane | 94 | 1.344 | 1.344 | (0.321) | 1612 | 0.50000 | 0.55(M) |
| | 7 Chloroethane | 64 | 1.407 | 1.407 | (0.337) | 1789 | 0.50000 | 0.57(M) |
| | 8 Trichlorofluoromethane | 101 | 1.561 | 1.565 | (0.373) | 3392 | 0.50000 | 0.56(M) |
| | 9 Acrolein | 56 | 1.445 | 1.449 | (0.346) | 343 | 1.00000 | 1.15(aM) |
| | 11 1,1-Dichloroethene | 96 | 1.917 | 1.917 | (0.459) | 2206 | 0.50000 | 0.58(M) |
| | 12 Isobutyl Alcohol | 43 | 4.702 | 4.676 | (1.125) | 5465 | 10.0000 | 8.71(aM) |
| | 13 Acetonitrile | 39 | 2.213 | 2.202 | (0.529) | 2269 | 5.00000 | 4.86(aM) |
| | 14 Allyl Chloride | 41 | 2.217 | 2.202 | (0.530) | 5619 | 0.50000 | 0.53(a) |
| | 15 Iodomethane | 142 | 2.026 | 2.030 | (0.485) | 2984 | 1.00000 | 2.79(TM) |
| | 16 Acrylonitrile | 53 | 2.584 | 2.536 | (0.618) | 1586 | 1.00000 | 1.03(M) |
| | 17 Methylene Chloride | 84 | 2.307 | 2.307 | (0.552) | 3169 | 0.50000 | 0.59(M) |
| | 18 Methyl tert-butyl ether | 73 | 2.543 | 2.536 | (0.608) | 7284 | 0.50000 | 0.55 |
| | 19 Carbon Disulfide | 76 | 2.075 | 2.071 | (0.496) | 15259 | 1.00000 | 1.13(M) |
| | 20 trans-1,2-Dichloroethene | 96 | 2.539 | 2.532 | (0.607) | 2631 | 0.50000 | 0.58 |
| | 21 Vinyl Acetate | 43 | 3.046 | 2.997 | (0.728) | 11055 | 1.00000 | 0.91(aM) |
| | 22 1,1-Dichloroethane | 63 | 2.926 | 2.922 | (0.700) | 4641 | 0.50000 | 0.57(M) |

| | | | | | | |
|---|---|---|---|---|---|---|
| 23 Chloroprene | 53 | 1.775 | 1.775 (0.425) | 937 | 0.50000 | 0.58(aM) |
| 24 2-Butanone | 43 | 3.683 | 3.578 (0.881) | 1517 | 1.00000 | 0.95(aM) |

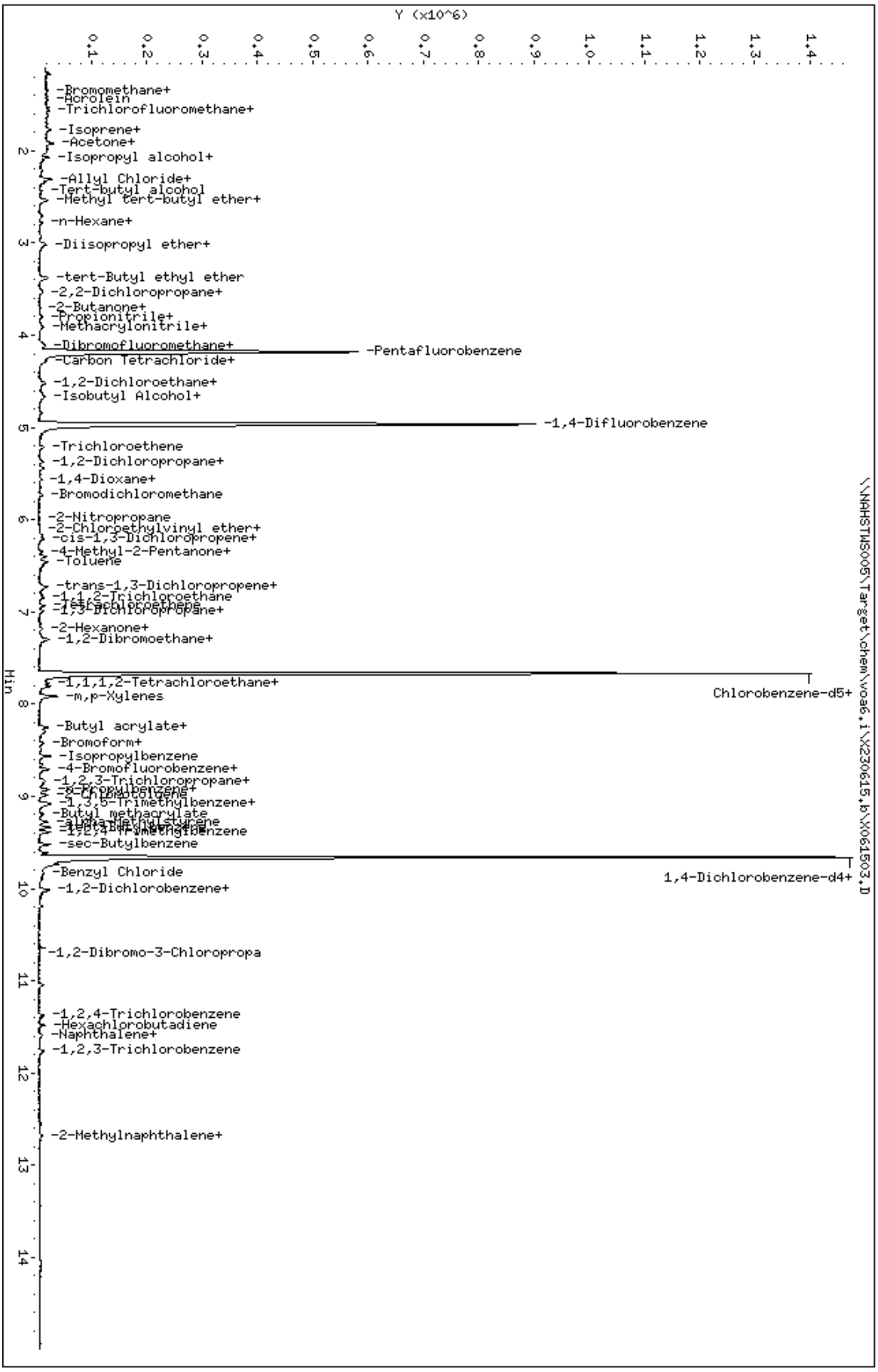
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 25 | Methacrylonitrile | 41 | 3.870 | 3.821 | (0.926) | 2167 | 0.50000 | 0.54(aM) |
| 26 | 2,2-Dichloropropane | 77 | 3.514 | 3.514 | (0.840) | 4078 | 0.50000 | 0.63(M) |
| 27 | cis-1,2-Dichloroethene | 96 | 3.537 | 3.525 | (0.846) | 3046 | 0.50000 | 0.58(M) |
| 28 | Chloroform | 83 | 3.908 | 3.904 | (0.935) | 5129 | 0.50000 | 0.58(M) |
| 29 | Bromochloromethane | 128 | 3.807 | 3.795 | (0.910) | 1516 | 0.50000 | 0.54(M) |
| 31 | 1,1,1-Trichloroethane | 97 | 4.076 | 4.084 | (0.975) | 4137 | 0.50000 | 0.58 |
| 32 | 1,1-Dichloropropene | 75 | 4.283 | 4.279 | (0.863) | 3575 | 0.50000 | 0.57(M) |
| 33 | 1,2-Dichloroethane | 62 | 4.582 | 4.556 | (0.923) | 3689 | 0.50000 | 0.59 |
| 34 | Carbon Tetrachloride | 117 | 4.268 | 4.264 | (0.860) | 3561 | 0.50000 | 0.59 |
| * 36 | 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 737190 | 50.0000 | |
| 37 | Benzene | 78 | 4.519 | 4.511 | (0.910) | 10562 | 0.50000 | 0.55(M) |
| 38 | Trichloroethene | 130 | 5.220 | 5.205 | (1.051) | 2866 | 0.50000 | 0.54(a) |
| 39 | Bromodichloromethane | 83 | 5.726 | 5.722 | (1.153) | 3787 | 0.50000 | 0.56(aM) |
| 40 | Methyl Methacrylate | 41 | 5.643 | 5.606 | (1.350) | 1972 | 0.50000 | 0.52(aM) |
| 41 | 2-Chloroethylvinyl ether | 63 | 6.093 | 6.048 | (1.227) | 1563 | 1.00000 | 0.86(aM) |
| 42 | 1,2-Dichloropropane | 63 | 5.445 | 5.437 | (1.097) | 2801 | 0.50000 | 0.56(aM) |
| 43 | 2-Nitropropane | 43 | 5.977 | 5.966 | (1.429) | 747 | 0.50000 | 0.57(aM) |
| 44 | Dibromomethane | 93 | 5.568 | 5.550 | (1.122) | 1589 | 0.50000 | 0.50(aM) |
| 45 | 4-Methyl-2-Pentanone | 43 | 6.348 | 6.322 | (0.828) | 4230 | 1.00000 | 0.95(a) |
| 46 | cis-1,3-Dichloropropene | 75 | 6.161 | 6.153 | (1.241) | 4543 | 0.50000 | 0.54(a) |
| * 47 | Chlorobenzene-d5 | 117 | 7.668 | 7.668 | (1.000) | 687572 | 50.0000 | |
| $ 48 | Toluene-d8 | 98 | 6.401 | 6.386 | (0.835) | 9971 | 0.50000 | 0.57(a) |
| 49 | Ethyl Methacrylate | 69 | 6.727 | 6.708 | (1.355) | 2688 | 0.50000 | 0.50(aM) |
| 50 | Toluene | 91 | 6.461 | 6.445 | (0.843) | 11582 | 0.50000 | 0.57(aM) |
| 51 | trans-1,3-Dichloropropene | 75 | 6.708 | 6.678 | (1.351) | 3492 | 0.50000 | 0.50(a) |
| 52 | 2-Hexanone | 43 | 7.117 | 7.083 | (0.928) | 2386 | 1.00000 | 0.80(a) |
| 53 | 1,1,2-Trichloroethane | 83 | 6.843 | 6.835 | (0.892) | 2237 | 0.50000 | 0.56(aM) |
| 54 | 1,3-Dichloropropane | 76 | 6.989 | 6.978 | (0.912) | 4459 | 0.50000 | 0.56(aM) |
| 55 | Dibromochloromethane | 129 | 7.184 | 7.173 | (0.937) | 3103 | 0.50000 | 0.55(a) |
| 56 | Tetrachloroethene | 164 | 6.929 | 6.925 | (0.904) | 2291 | 0.50000 | 0.55(aM) |
| 57 | 1,2-Dibromoethane | 107 | 7.274 | 7.259 | (0.949) | 2925 | 0.50000 | 0.58(a) |
| 58 | 1-Chlorohexane | 55 | 7.705 | 7.694 | (1.552) | 2351 | 0.50000 | 0.52(aM) |
| 59 | Chlorobenzene | 112 | 7.694 | 7.690 | (1.003) | 8017 | 0.50000 | 0.58(aM) |
| 60 | 1,1,1,2-Tetrachloroethane | 131 | 7.773 | 7.773 | (1.014) | 2861 | 0.50000 | 0.55(a) |
| 61 | Ethylbenzene | 106 | 7.806 | 7.799 | (1.018) | 3993 | 0.50000 | 0.56(a) |
| 62 | m,p-Xylenes | 106 | 7.915 | 7.900 | (1.032) | 9595 | 1.00000 | 1.09(aM) |
| 63 | o-Xylene | 106 | 8.252 | 8.237 | (1.076) | 4730 | 0.50000 | 0.54(aM) |
| 64 | Styrene | 104 | 8.297 | 8.256 | (1.082) | 7646 | 0.50000 | 0.53(aM) |
| 66 | Bromoform | 173 | 8.417 | 8.410 | (1.098) | 2211 | 0.50000 | 0.56(Ta) |
| 67 | Isopropylbenzene | 105 | 8.567 | 8.560 | (1.117) | 12451 | 0.50000 | 0.57(a) |
| 68 | 1,1,2,2-Tetrachloroethane | 83 | 8.841 | 8.837 | (0.915) | 3818 | 0.50000 | 0.57(aM) |
| $ 69 | 4-Bromofluorobenzene | 95 | 8.706 | 8.687 | (1.135) | 7971 | 0.50000 | 0.66(a) |
| * 70 | 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.658 | (1.000) | 376739 | 50.0000 | |
| 71 | 1,2,3-Trichloropropane | 75 | 8.878 | 8.863 | (0.919) | 2689 | 0.50000 | 0.56(a) |
| 72 | trans-1,4-Dichloro-2-butene | 53 | 8.935 | 8.886 | (1.165) | 838 | 0.50000 | 0.50(aM) |
| 73 | n-Propylbenzene | 91 | 8.927 | 8.908 | (0.924) | 14359 | 0.50000 | 0.57(a) |
| 74 | Bromobenzene | 156 | 8.826 | 8.803 | (0.913) | 3535 | 0.50000 | 0.57(aM) |
| 75 | 1,3,5-Trimethylbenzene | 105 | 9.073 | 9.066 | (0.939) | 10589 | 0.50000 | 0.58(aM) |
| 76 | 2-Chlorotoluene | 91 | 8.983 | 8.972 | (0.930) | 8949 | 0.50000 | 0.56(aM) |
| 77 | 4-Chlorotoluene | 91 | 9.092 | 9.070 | (0.941) | 10012 | 0.50000 | 0.57(aM) |
| 78 | tert-Butylbenzene | 119 | 9.336 | 9.336 | (0.966) | 8719 | 0.50000 | 0.57(aM) |
| 79 | 1,2,4-Trimethylbenzene | 105 | 9.388 | 9.377 | (0.972) | 10657 | 0.50000 | 0.58(aM) |

| | | | | | | |
|---|---|---|---|---|---|---|
| 81 sec-Butylbenzene | 105 | 9.519 | 9.519 (0.985) | 12512 | 0.50000 | 0.58(aM) |
| 82 p-Isopropyltoluene | 119 | 9.658 | 9.647 (1.000) | 10432 | 0.50000 | 0.55(a) |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 83 | 1,3-Dichlorobenzene | 146 | 9.613 | 9.602 | (0.995) | 6249 | 0.50000 | 0.57(a) |
| 84 | 1,4-Dichlorobenzene | 146 | 9.681 | 9.681 | (1.002) | 6645 | 0.50000 | 0.56(a) |
| 86 | Benzyl Chloride | 91 | 9.834 | 9.808 | (1.283) | 6300 | 0.50000 | 0.55(aM) |
| 87 | n-Butylbenzene | 91 | 10.018 | 9.992 | (1.037) | 8377 | 0.50000 | 0.52(aM) |
| 88 | 1,2-Dichlorobenzene | 146 | 10.011 | 9.992 | (1.036) | 6205 | 0.50000 | 0.57(a) |
| 89 | 1,2-Dibromo-3-Chloropropane | 155 | 10.689 | 10.655 | (1.106) | 562 | 0.50000 | 0.77(aM) |
| 90 | 1,2,4-Trichlorobenzene | 180 | 11.371 | 11.334 | (1.177) | 3888 | 0.50000 | 0.51(a) |
| 91 | Hexachlorobutadiene | 225 | 11.480 | 11.476 | (1.188) | 1714 | 0.50000 | 0.50(a) |
| 92 | Naphthalene | 128 | 11.596 | 11.540 | (1.200) | 9500 | 0.50000 | 0.55(aM) |
| 93 | 1,2,3-Trichlorobenzene | 180 | 11.769 | 11.739 | (1.218) | 3790 | 0.50000 | 0.54(a) |
| 146 | Methyl acetate | 43 | 2.255 | 2.232 | (0.539) | 1514 | 0.50000 | 0.53(aM) |
| 138 | Freon TF | 101 | 1.917 | 1.917 | (0.459) | 2188 | 0.50000 | 0.67(aM) |
| 141 | Cyclohexane | 56 | 4.129 | 4.121 | (0.987) | 3419 | 0.50000 | 0.55(aMH) |
| 142 | Tetrahydrofuran | 42 | 3.874 | 3.844 | (0.926) | 724 | 1.00000 | 1.03(aM) |
| 147 | Methylcyclohexane | 55 | 5.373 | 5.381 | (1.082) | 4698 | 0.50000 | 0.45(aM) |
| 135 | 1,4-Dioxane | 88 | 5.621 | 5.598 | (1.344) | 539 | 10.0000 | 9.25(aM) |
| 132 | n-Butanol | 56 | 5.373 | 5.253 | (1.285) | 934 | 10.0000 | 72.06(TaM) |
| 131 | Methyl Acrylate | 55 | 3.784 | 3.690 | (0.905) | 1944 | 0.50000 | 0.49(aM) |
| 133 | Ethyl Acrylate | 55 | 5.448 | 5.381 | (1.303) | 4696 | 0.50000 | 2.77(M) |
| 136 | n-Hexane | 57 | 2.779 | 2.776 | (0.665) | 2120 | 0.50000 | 0.26(TaM) |
| 139 | Diethyl ether | 59 | 1.764 | 1.760 | (0.422) | 1591 | 0.50000 | 0.52(aM) |
| 148 | Tert-butyl alcohol | 59 | 2.435 | 2.431 | (0.582) | 5403 | 10.0000 | 10.94(M) |
| 149 | Isopropyl alcohol | 45 | 2.101 | 2.093 | (0.502) | 2910 | 10.0000 | 10.68 |
| 156 | Diisopropyl ether | 45 | 3.012 | 3.000 | (0.720) | 8201 | 0.50000 | 0.57(Ta) |
| 160 | 2-Methylnaphthalene | 142 | 12.668 | 12.634 | (1.311) | 3514 | 0.50000 | 0.47(a) |
| 166 | 1,2,3-Trimethylbenzene | 105 | 9.741 | 9.729 | (1.008) | 9163 | 0.50000 | 0.51(a) |
| 167 | Ethanol | 45 | 1.700 | 1.707 | (0.407) | 492 | 10.0000 | 10.70(M) |
| 172 | tert-Butyl formate | 59 | 4.635 | 4.612 | (1.108) | 3776 | 1.00000 | 0.95(aM) |
| 173 | 3,3-Dimethyl-1-butanol | 57 | 7.293 | 7.285 | (0.951) | 6294 | 10.0000 | 11.19(M) |
| 174 | tert-Amyl methyl ether | 73 | 4.669 | 4.665 | (1.117) | 8758 | 0.50000 | 0.56(aM) |
| 175 | tert-Butyl ethyl ether | 59 | 3.383 | 3.379 | (0.809) | 8683 | 0.50000 | 0.59(a) |
| 176 | tert-Amyl alcohol | 59 | 4.635 | 4.612 | (1.108) | 4487 | 10.0000 | 11.11(M) |
| 151 | 4-Methyl-2-pentanol | 45 | 6.727 | 6.708 | (1.355) | 12489 | 10.0000 | 10.65 |
| 180 | 1-Methylnaphthalene | 142 | 12.668 | 12.634 | (1.311) | 3514 | 0.50000 | (a) |
| 140 | 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.279) | 2248 | 0.50000 | 0.56(aM) |
| 152 | Amyl alcohol | 42 | 7.015 | 6.899 | (0.915) | 1185 | 10.0000 | 9.25(TM) |
| 158 | Dichlorofluoromethane | 67 | 1.535 | 1.535 | (0.367) | 4041 | 0.50000 | 0.58(M) |
| 161 | 3-Methyl-1-butanol | 55 | 7.004 | 6.899 | (0.913) | 1270 | 10.0000 | 44.67(TM) |
| 162 | Butyl acrylate | 55 | 8.297 | 8.249 | (1.082) | 1843 | 0.50000 | 0.72(a) |
| 164 | Dicyclopentadiene | 66 | 9.681 | 9.681 | (1.002) | 12411 | 0.50000 | 0.58(aM) |
| 182 | Epichlorohydrin | 57 | 6.127 | 6.093 | (1.234) | 1097 | 2.00000 | 2.48(aM) |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 5677 | 1.00000 | (a) |
| 130 | Ethyl Acetate | 43 | 3.717 | 3.657 | (0.889) | 2678 | 0.50000 | 0.54(aM) |
| 134 | Cyclohexanone | 55 | 8.657 | 8.642 | (0.896) | 2832 | 10.0000 | 0.47(a) |
| 185 | Isoprene | 39 | 1.779 | 1.775 | (0.425) | 790 | 0.50000 | 0.60(a) |
| 188 | Isopropyl acetate | 43 | 4.702 | 4.676 | (0.947) | 7126 | 0.50000 | 0.55(aM) |
| 187 | n-Amyl acetate | 43 | 8.489 | 8.451 | (1.107) | 4951 | 0.50000 | 0.53(aM) |
| 189 | n-Butyl acetate | 43 | 7.244 | 7.210 | (0.945) | 3227 | 0.50000 | 0.43(aM) |
| 150 | Allyl alcohol | 57 | 2.779 | 2.772 | (0.665) | 2756 | 10.0000 | 7.04(M) |
| 195 | Methyl Amyl Ketone | 43 | 8.425 | 8.380 | (1.099) | 4519 | 0.50000 | 0.44(aM) |
| 200 | Dimethyl Disulfide | 94 | 6.209 | 6.194 | (0.810) | 5577 | 0.50000 | 0.54(a) |
| 205 | 2-Ethylhexyl Acrylate | 55 | 11.615 | 11.544 | (1.202) | 2087 | 0.50000 | 1.56(aM) |

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.




Data File: \\NAHSTWS005\Target\chem\voa6,i\X230615,b\X061503,D
Date : 15-JUN-2023 11:36
Client ID: VSTD000.5
Sample Info: VSTD000.5;VSTD000.5;1;2;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: PC
Column diameter: 0.18

\\NAHSTWS005\Target\chem\voa6,i\X230615,b\X061503,D

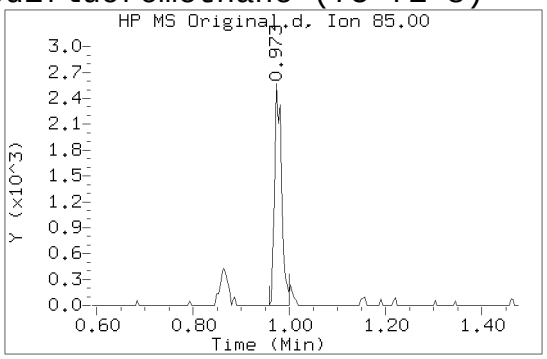
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## Dichlorodifluoromethane (75-71-8)

Reason Code:

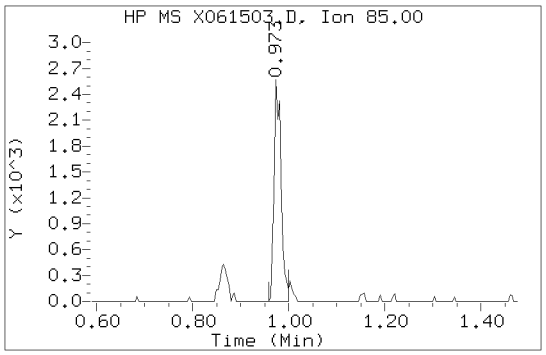
BEFORE

MASS
85
AREA
2615
HEIGHT
2570
20-Jun-2023
18:22
linh
pham



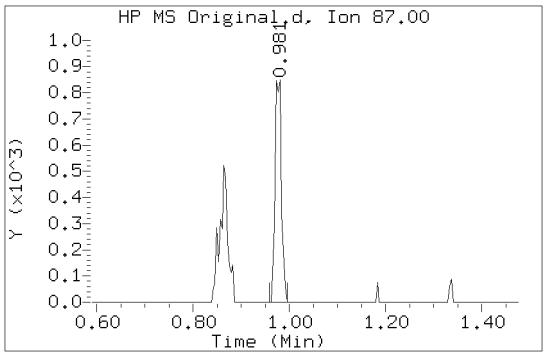

AFTER

MASS
85
AREA
2615
HEIGHT
2570
20-Jun-2023
18:22
linh
pham



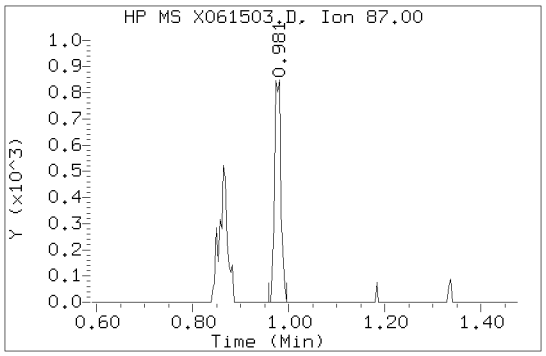

BEFORE

MASS
87
AREA
786
HEIGHT
849
20-Jun-2023
18:22
linh
pham




AFTER

MASS
87
AREA
786
HEIGHT
849
20-Jun-2023
18:22
linh
pham

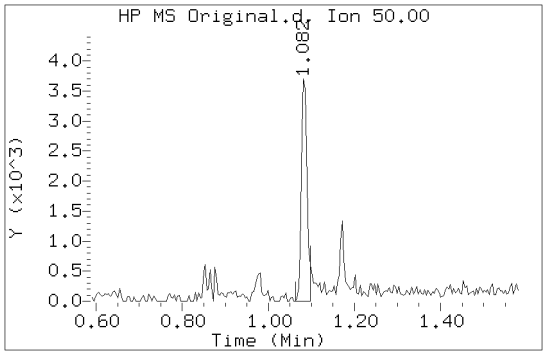



## Chloromethane (74-87-3)

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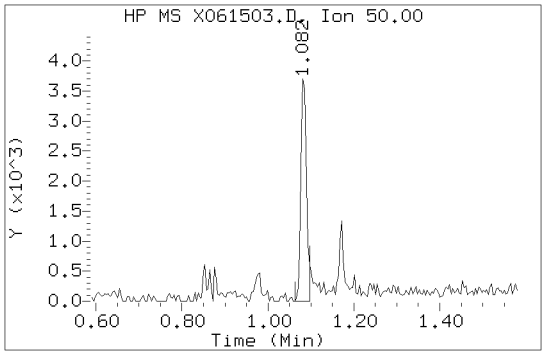
BEFORE

MASS
50
AREA
3301
HEIGHT
3701
20-Jun-2023
18:22
linh
pham



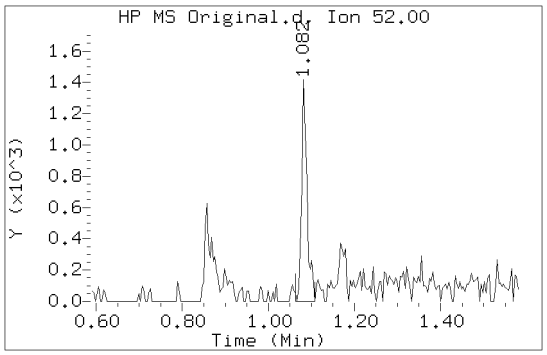

AFTER

MASS
50
AREA
3301
HEIGHT
3701
20-Jun-2023
18:22
linh
pham



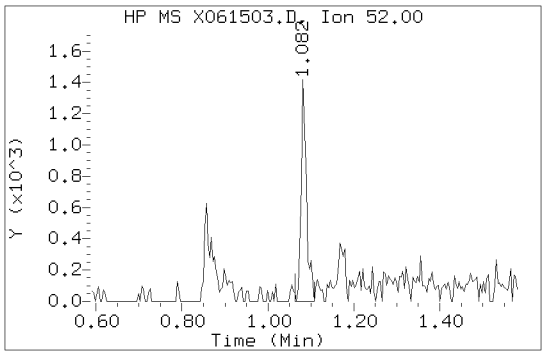

BEFORE

MASS
52
AREA
1196
HEIGHT
1417
20-Jun-2023
18:22
linh
pham




AFTER

MASS
52
AREA
1196
HEIGHT
1417
20-Jun-2023
18:22
linh
pham

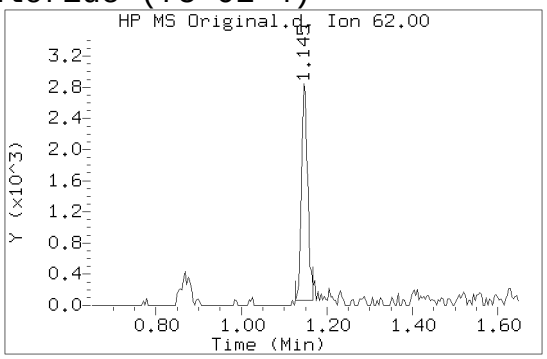


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Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## Vinyl Chloride (75-01-4)

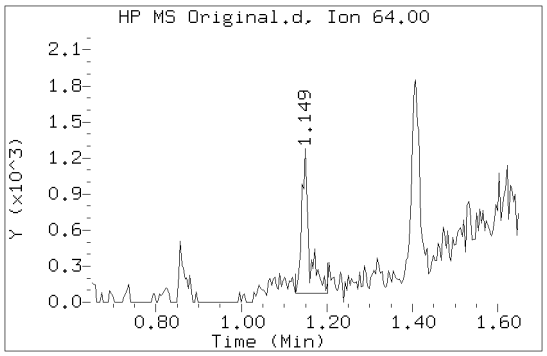
### BEFORE

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62
AREA
2917
HEIGHT
2780
20-Jun-2023
18:22
linh
pham




### BEFORE

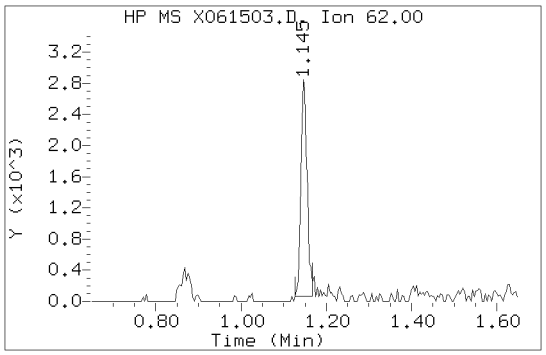
MASS
64
AREA
1530
HEIGHT
1201
20-Jun-2023
18:22
linh
pham




Reason Code:

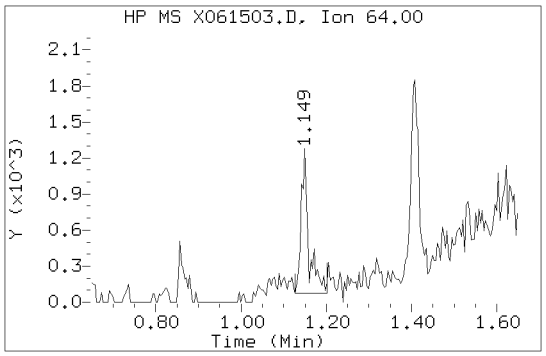
### AFTER

MASS
62
AREA
2917
HEIGHT
2780
20-Jun-2023
18:22
linh
pham




### AFTER

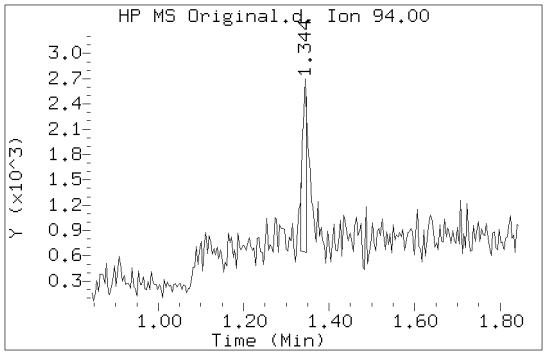
MASS
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AREA
1530
HEIGHT
1201
20-Jun-2023
18:22
linh
pham




## Bromomethane (74-83-9)

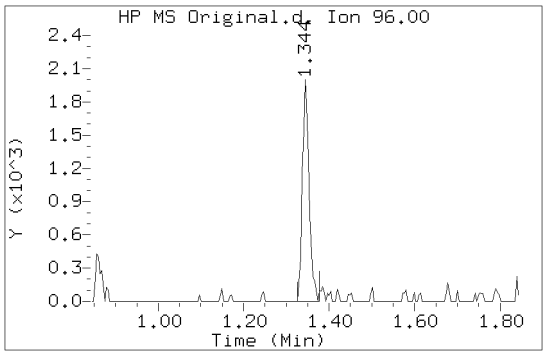
### BEFORE

MASS
94
AREA
1612
HEIGHT
2054
20-Jun-2023
18:22
linh
pham




### BEFORE

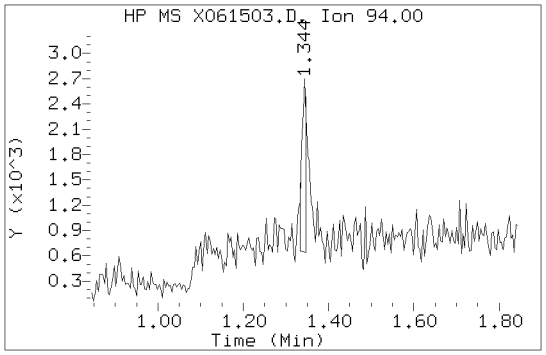
MASS
96
AREA
2285
HEIGHT
2001
20-Jun-2023
18:22
linh
pham




Reason Code:

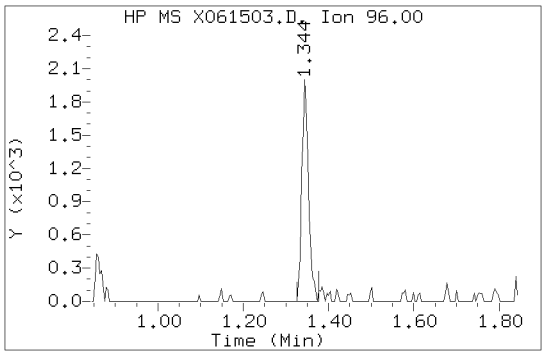
### AFTER

MASS
94
AREA
1612
HEIGHT
2054
20-Jun-2023
18:22
linh
pham




### AFTER

MASS
96
AREA
2285
HEIGHT
2001
20-Jun-2023
18:22
linh
pham

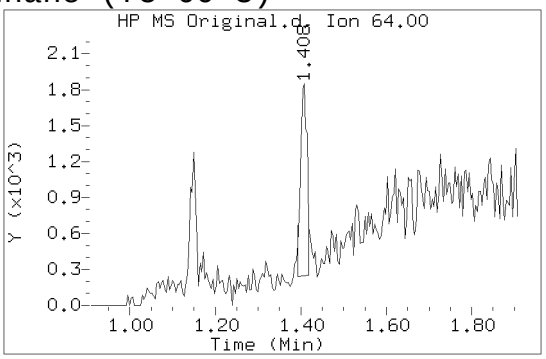


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Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

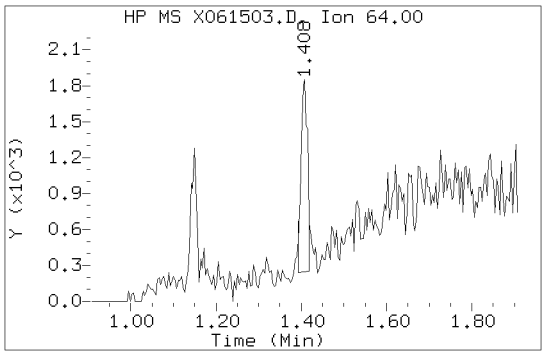
## Chloroethane (75-00-3)

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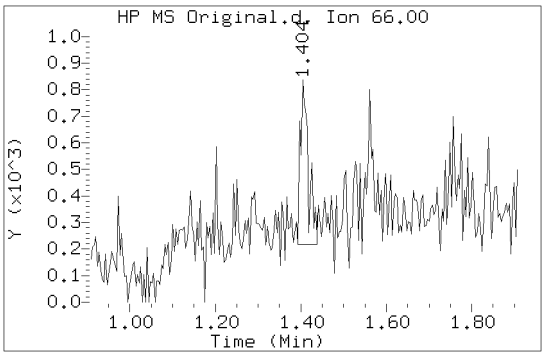
BEFORE
MASS
64
AREA
1789
HEIGHT
1602
20-Jun-2023
18:22
linh
pham



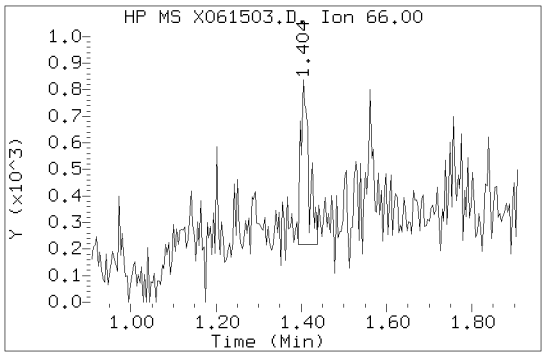

AFTER
MASS
64
AREA
1789
HEIGHT
1602
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
66
AREA
828
HEIGHT
618
20-Jun-2023
18:22
linh
pham



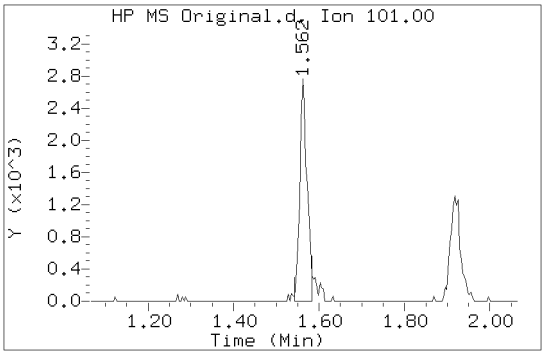

AFTER
MASS
66
AREA
828
HEIGHT
618
20-Jun-2023
18:22
linh
pham



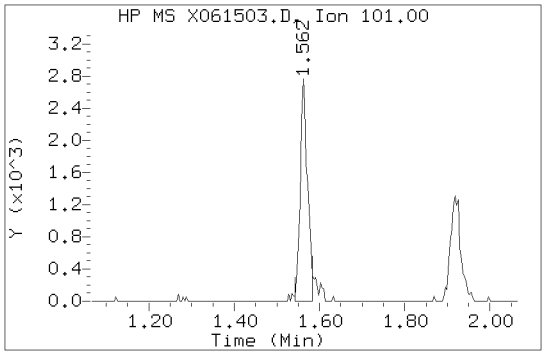

## Trichlorofluoromethane (75-69-4)

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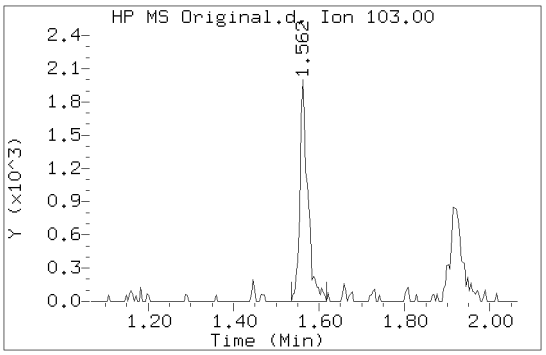
BEFORE
MASS
101
AREA
3392
HEIGHT
2765
20-Jun-2023
18:22
linh
pham



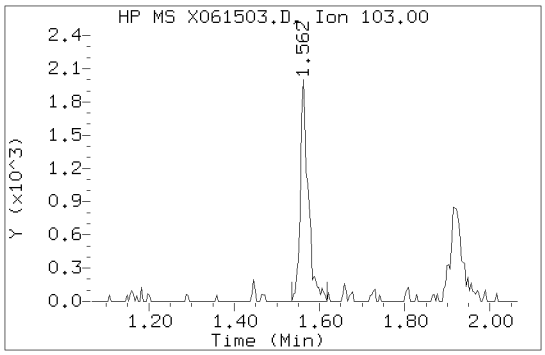

AFTER
MASS
101
AREA
3392
HEIGHT
2765
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
103
AREA
2654
HEIGHT
2001
20-Jun-2023
18:22
linh
pham




AFTER
MASS
103
AREA
2654
HEIGHT
2001
20-Jun-2023
18:22
linh
pham

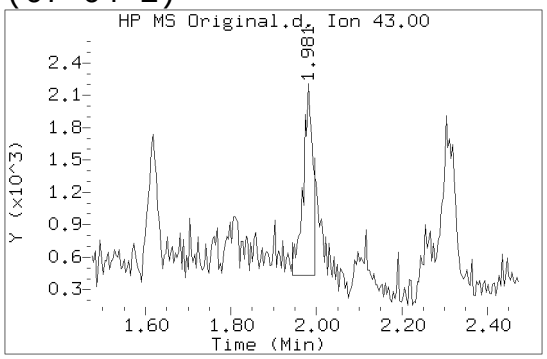


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Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

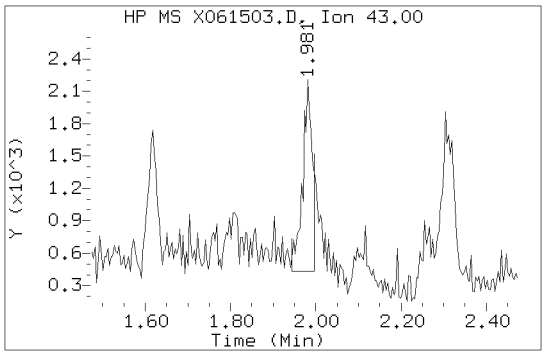
## Acetone (67-64-1)

Reason Code:

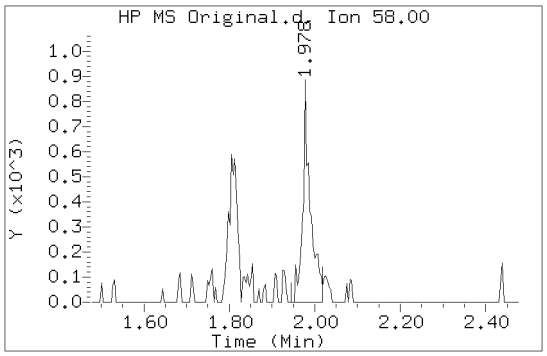
BEFORE
MASS
43
AREA
2789
HEIGHT
1772
20-Jun-2023
18:22
linh
pham



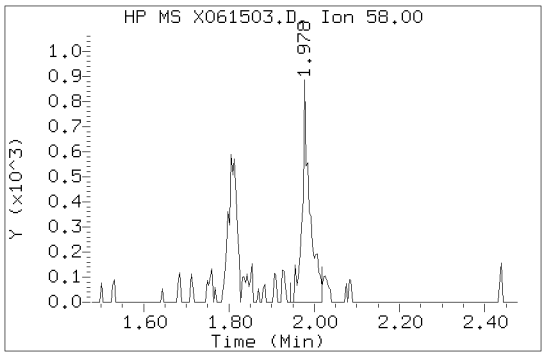

AFTER
MASS
43
AREA
2789
HEIGHT
1772
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
58
AREA
1118
HEIGHT
886
20-Jun-2023
18:22
linh
pham



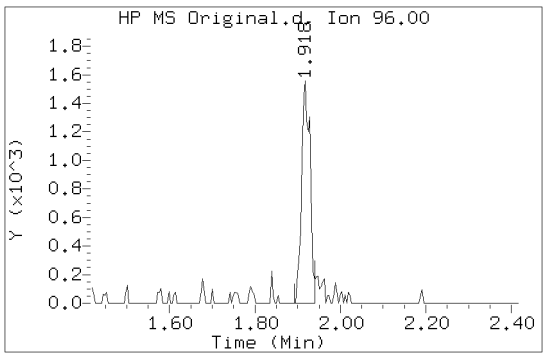

AFTER
MASS
58
AREA
1118
HEIGHT
886
20-Jun-2023
18:22
linh
pham



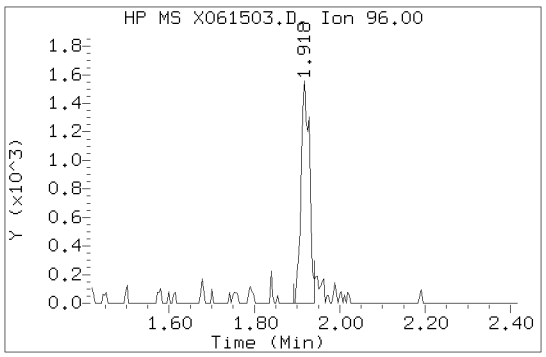

## 1,1-Dichloroethene (75-35-4)

Reason Code:

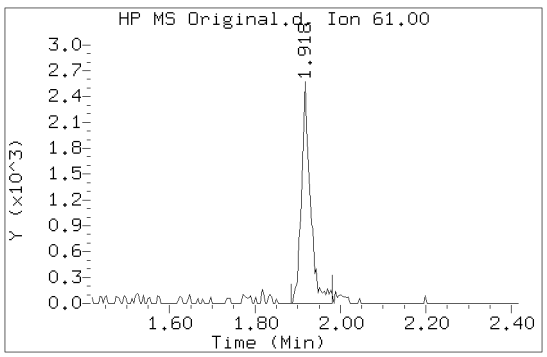
BEFORE
MASS
96
AREA
2206
HEIGHT
1557
20-Jun-2023
18:22
linh
pham



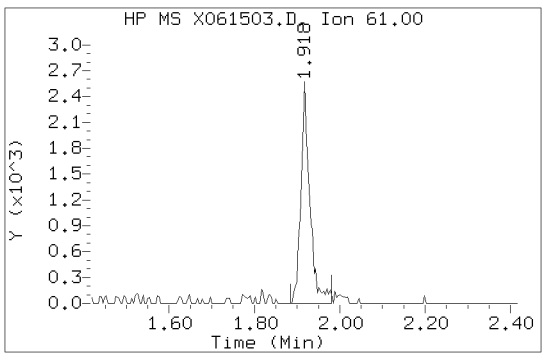

AFTER
MASS
96
AREA
2206
HEIGHT
1557
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
61
AREA
3870
HEIGHT
2572
20-Jun-2023
18:22
linh
pham




AFTER
MASS
61
AREA
3870
HEIGHT
2572
20-Jun-2023
18:22
linh
pham



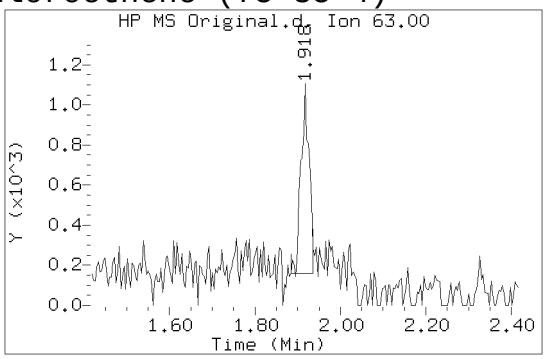
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Inj Date : 15-JUN-2023 11:36
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LabSampID : VSTD000.5

## 1,1-Dichloroethene (75-35-4)

Reason Code:

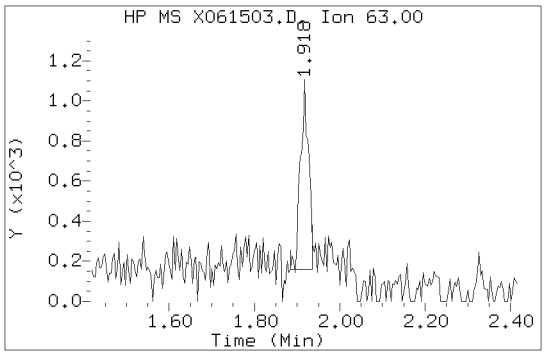
**BEFORE**

MASS
63
AREA
1295
HEIGHT
947
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
63
AREA
1295
HEIGHT
947
20-Jun-2023
18:22
linh
pham

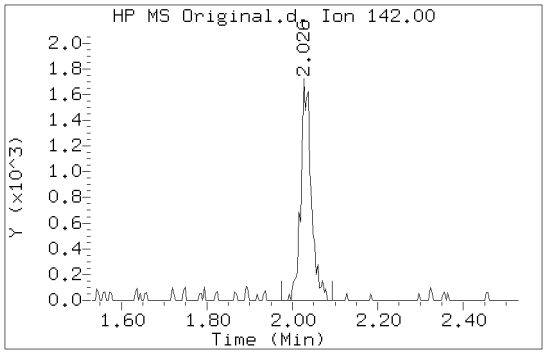



## Iodomethane (74-88-4)

Reason Code:

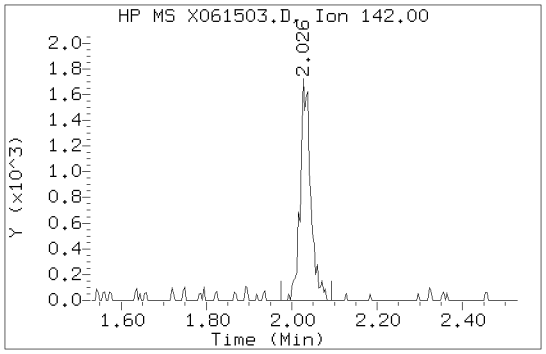
**BEFORE**

MASS
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AREA
2984
HEIGHT
1723
20-Jun-2023
18:22
linh
pham



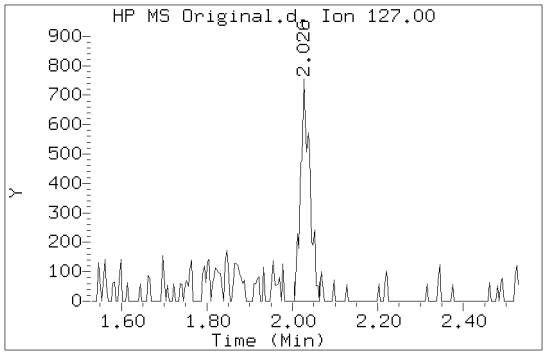

**AFTER**

MASS
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AREA
2984
HEIGHT
1723
20-Jun-2023
18:22
linh
pham



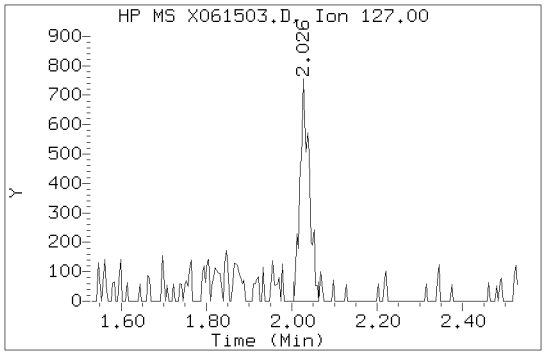

**BEFORE**

MASS
127
AREA
1150
HEIGHT
755
20-Jun-2023
18:22
linh
pham



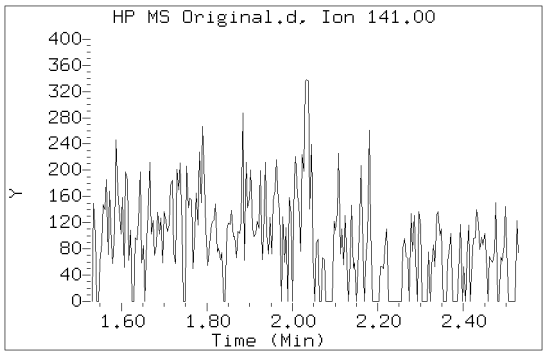

**AFTER**

MASS
127
AREA
1150
HEIGHT
755
20-Jun-2023
18:22
linh
pham



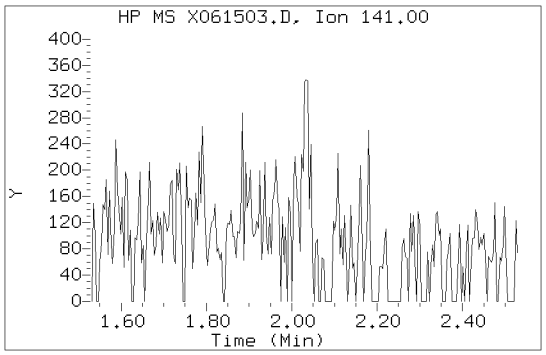

**BEFORE**

MASS
141
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
141
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

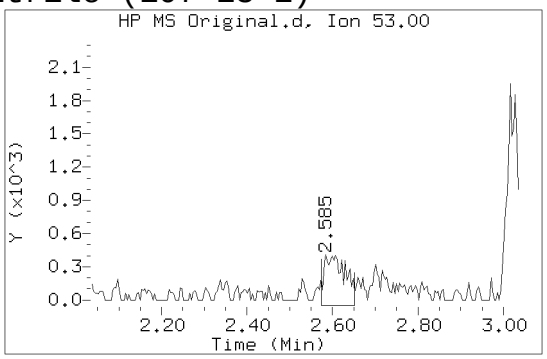


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

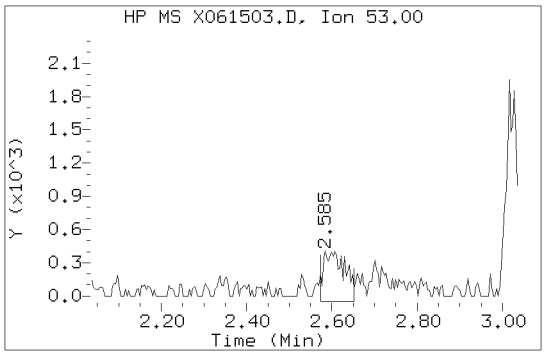
## Acrylonitrile (107-13-1)

Reason Code:

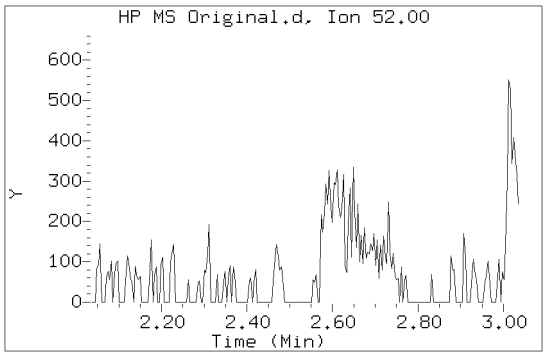
BEFORE
MASS
53
AREA
1586
HEIGHT
459
20-Jun-2023
18:22
linh
pham



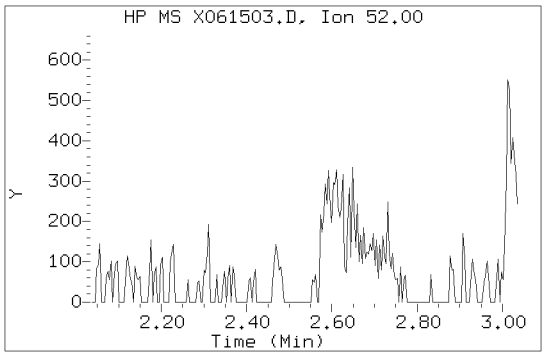

AFTER
MASS
53
AREA
1586
HEIGHT
459
20-Jun-2023
18:22
linh
pham



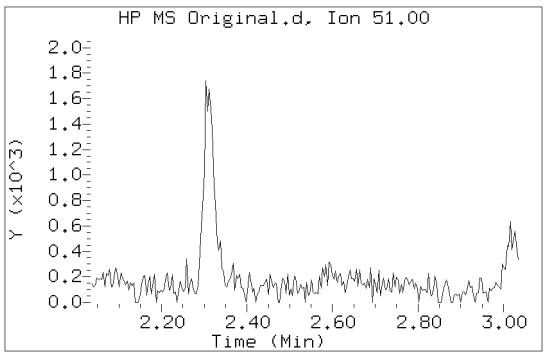

BEFORE
MASS
52
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



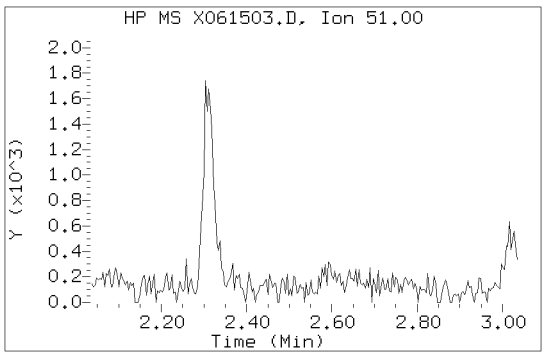

AFTER
MASS
52
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
51
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



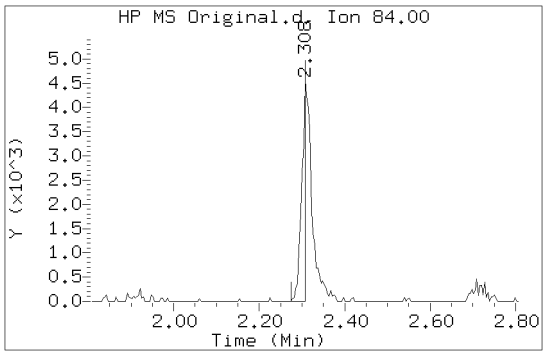

AFTER
MASS
51
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



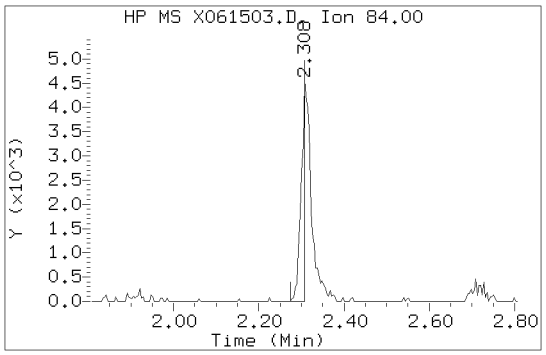

## Methylene Chloride (75-09-2)

Reason Code:

BEFORE
MASS
84
AREA
3169
HEIGHT
4572
20-Jun-2023
18:22
linh
pham




AFTER
MASS
84
AREA
3169
HEIGHT
4572
20-Jun-2023
18:22
linh
pham



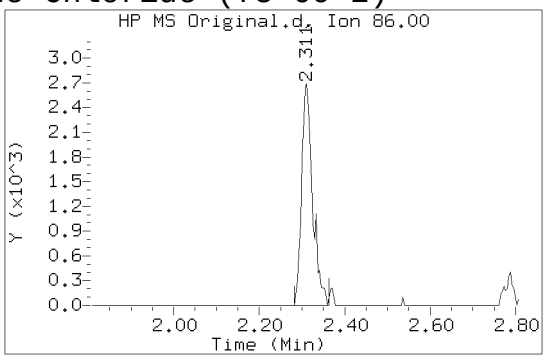
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## Methylene Chloride (75-09-2)

Reason Code:

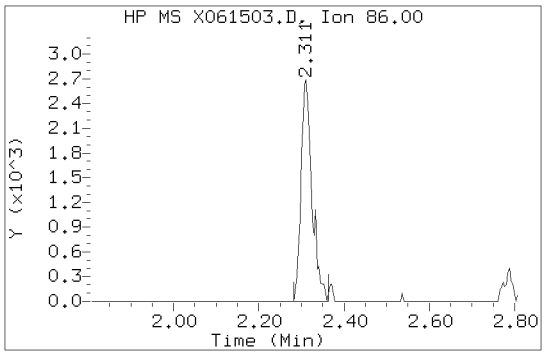
BEFORE

MASS
86
AREA
4937
HEIGHT
2690
20-Jun-2023
18:22
linh
pham



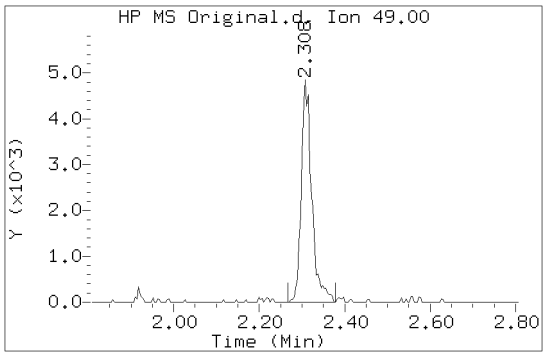

AFTER

MASS
86
AREA
4937
HEIGHT
2690
20-Jun-2023
18:22
linh
pham



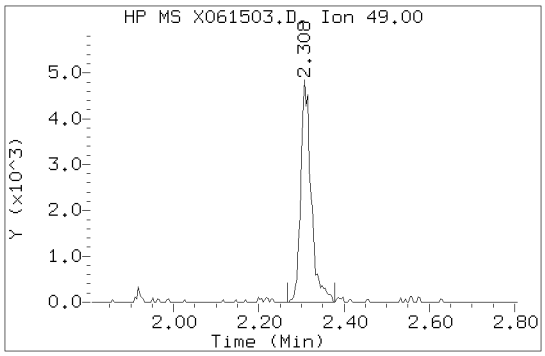

BEFORE

MASS
49
AREA
8445
HEIGHT
4847
20-Jun-2023
18:22
linh
pham




AFTER

MASS
49
AREA
8445
HEIGHT
4847
20-Jun-2023
18:22
linh
pham

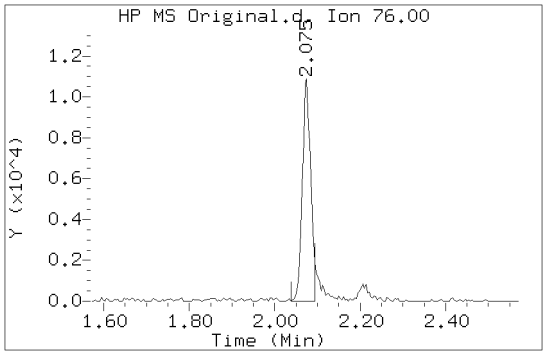



## Carbon Disulfide (75-15-0)

Reason Code:

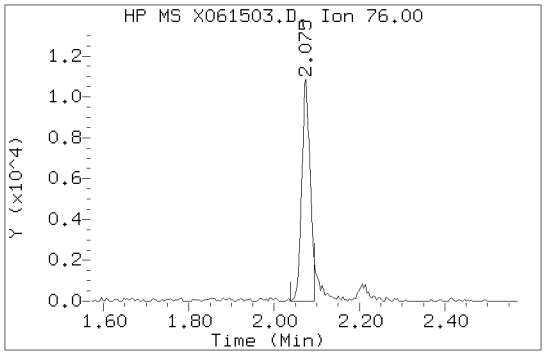
BEFORE

MASS
76
AREA
15259
HEIGHT
10881
20-Jun-2023
18:22
linh
pham



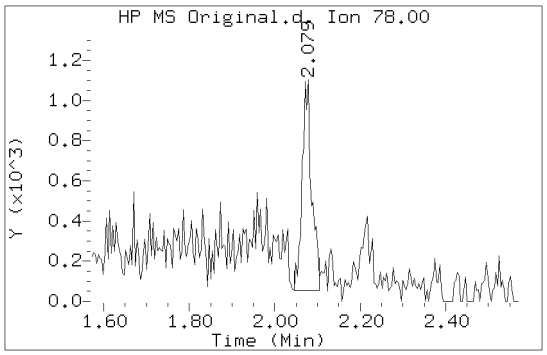

AFTER

MASS
76
AREA
15259
HEIGHT
10881
20-Jun-2023
18:22
linh
pham



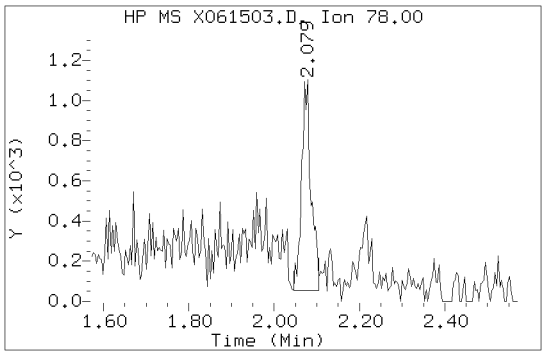

BEFORE

MASS
78
AREA
1652
HEIGHT
1049
20-Jun-2023
18:22
linh
pham




AFTER

MASS
78
AREA
1652
HEIGHT
1049
20-Jun-2023
18:22
linh
pham



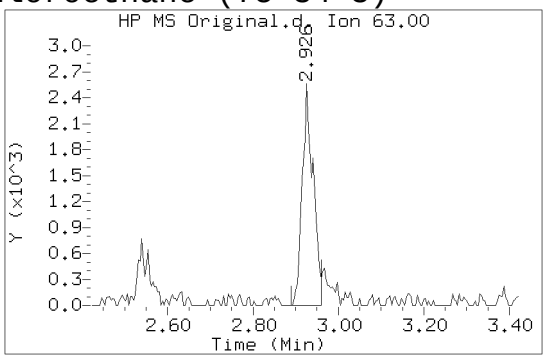
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## 1,1-Dichloroethane (75-34-3)

Reason Code:

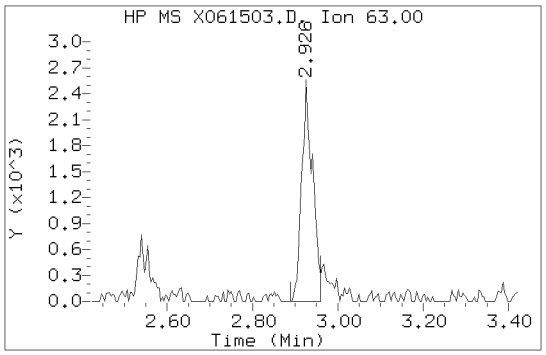
BEFORE

MASS
63
AREA
4641
HEIGHT
2564
20-Jun-2023
18:22
linh
pham



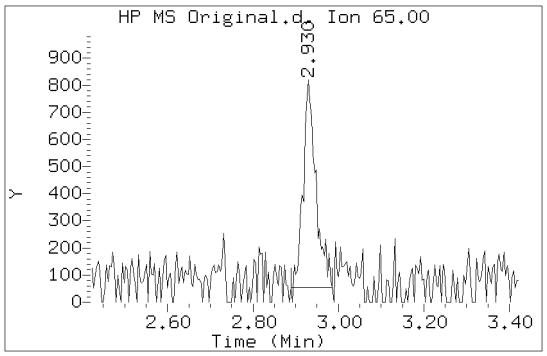

AFTER

MASS
63
AREA
4641
HEIGHT
2564
20-Jun-2023
18:22
linh
pham



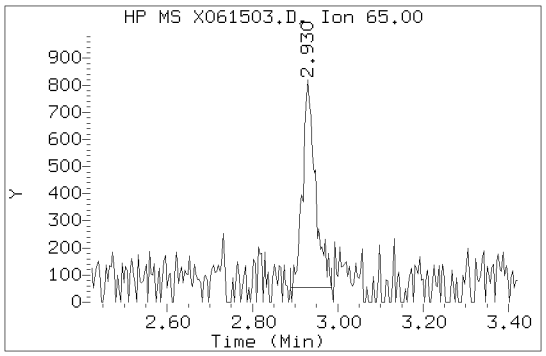

BEFORE

MASS
65
AREA
1597
HEIGHT
766
20-Jun-2023
18:22
linh
pham



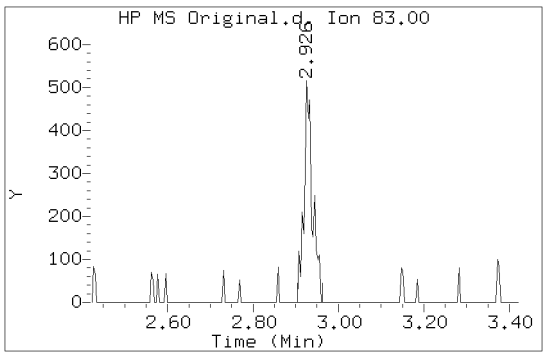

AFTER

MASS
65
AREA
1597
HEIGHT
766
20-Jun-2023
18:22
linh
pham



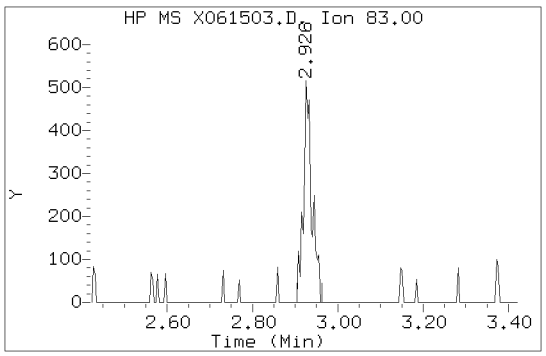

BEFORE

MASS
83
AREA
714
HEIGHT
516
20-Jun-2023
18:22
linh
pham




AFTER

MASS
83
AREA
714
HEIGHT
516
20-Jun-2023
18:22
linh
pham

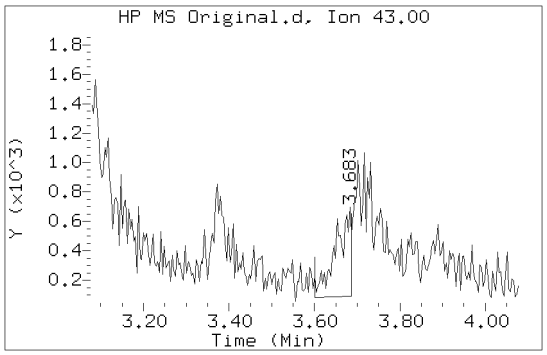



## 2-Butanone (78-93-3)

Reason Code:

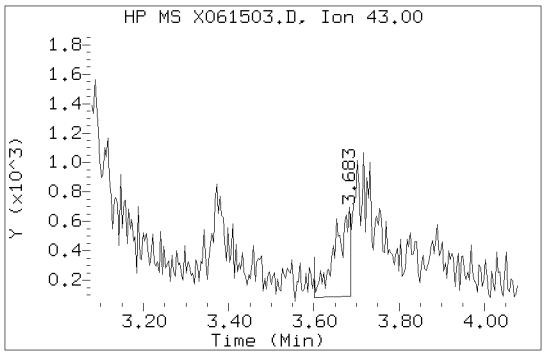
BEFORE

MASS
43
AREA
1517
HEIGHT
606
20-Jun-2023
18:22
linh
pham




AFTER

MASS
43
AREA
1517
HEIGHT
606
20-Jun-2023
18:22
linh
pham



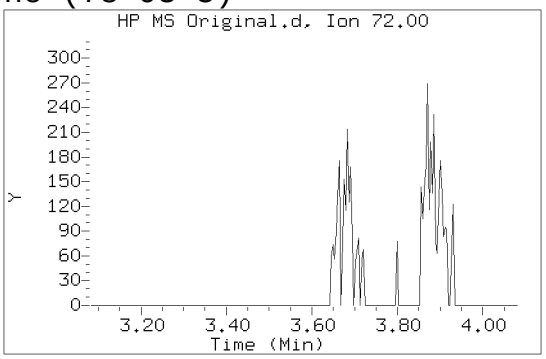
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## 2-Butanone (78-93-3)

Reason Code:

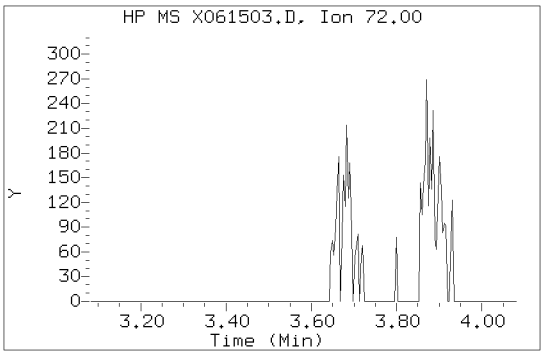
BEFORE

MASS
72
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER

MASS
72
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

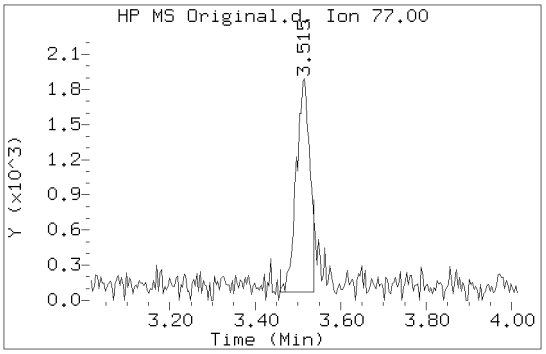



## 2,2-Dichloropropane (594-20-7)

Reason Code:

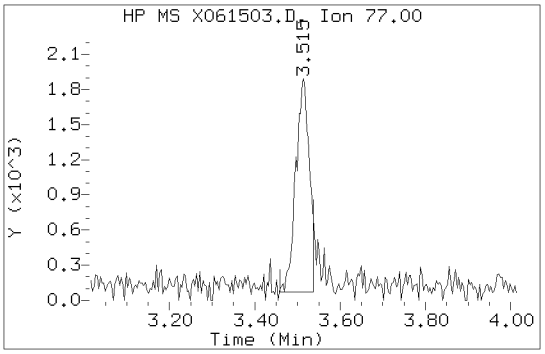
BEFORE

MASS
77
AREA
4078
HEIGHT
1819
20-Jun-2023
18:22
linh
pham



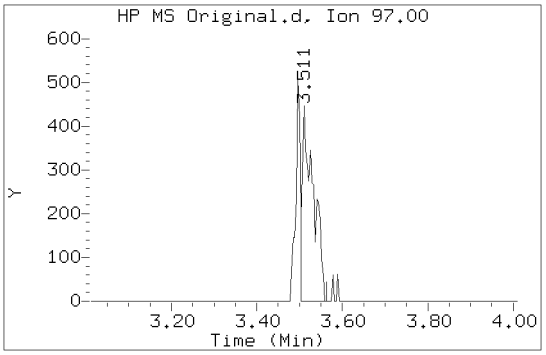

AFTER

MASS
77
AREA
4078
HEIGHT
1819
20-Jun-2023
18:22
linh
pham



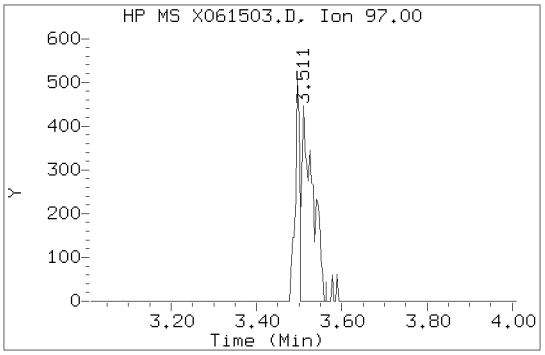

BEFORE

MASS
97
AREA
839
HEIGHT
446
20-Jun-2023
18:22
linh
pham




AFTER

MASS
97
AREA
839
HEIGHT
446
20-Jun-2023
18:22
linh
pham

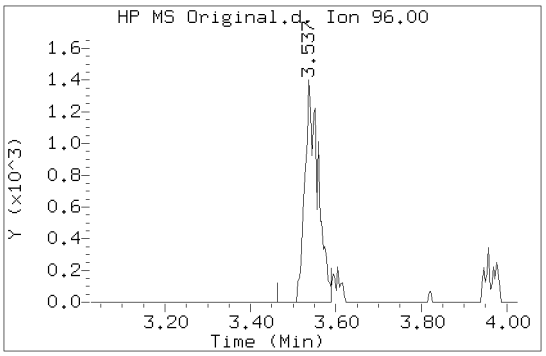



## cis-1,2-Dichloroethene (156-59-2)

Reason Code:

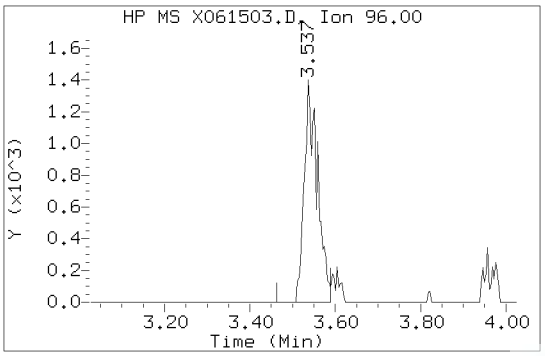
BEFORE

MASS
96
AREA
3046
HEIGHT
1401
20-Jun-2023
18:22
linh
pham




AFTER

MASS
96
AREA
3046
HEIGHT
1401
20-Jun-2023
18:22
linh
pham



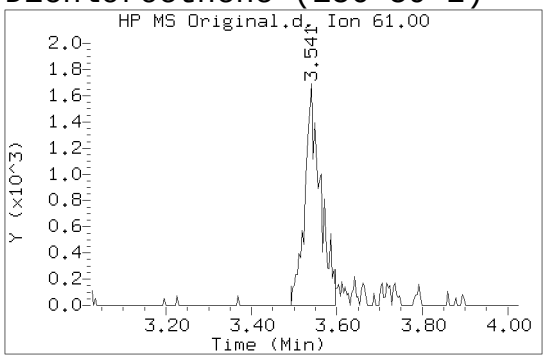
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## cis-1,2-Dichloroethene (156-59-2)

Reason Code:

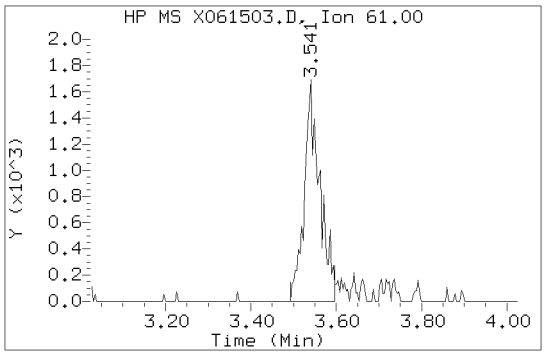
BEFORE

MASS
61
AREA
4277
HEIGHT
1692
20-Jun-2023
18:22
linh
pham



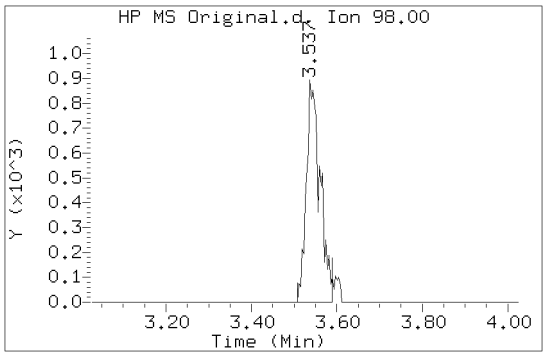

AFTER

MASS
61
AREA
4277
HEIGHT
1692
20-Jun-2023
18:22
linh
pham



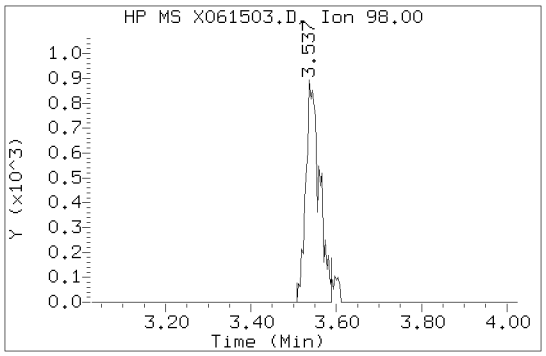

BEFORE

MASS
98
AREA
2016
HEIGHT
894
20-Jun-2023
18:22
linh
pham




AFTER

MASS
98
AREA
2016
HEIGHT
894
20-Jun-2023
18:22
linh
pham

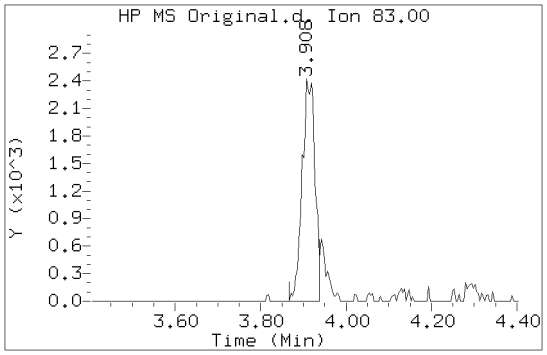



## Chloroform (67-66-3)

Reason Code:

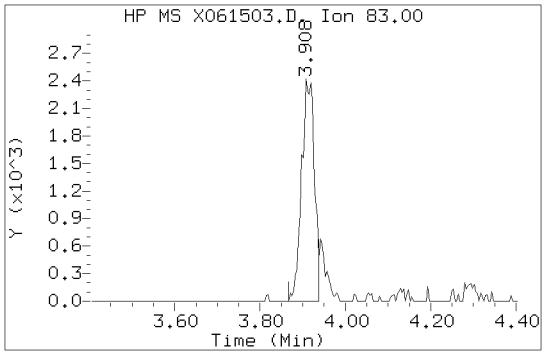
BEFORE

MASS
83
AREA
5129
HEIGHT
2422
20-Jun-2023
18:22
linh
pham



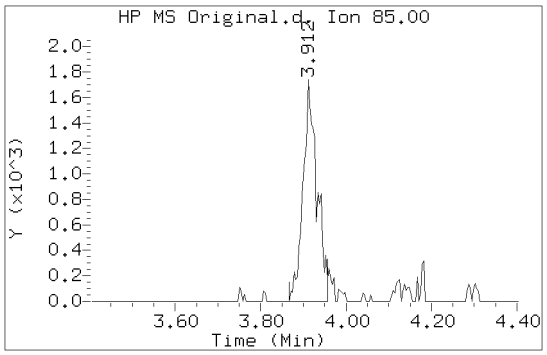

AFTER

MASS
83
AREA
5129
HEIGHT
2422
20-Jun-2023
18:22
linh
pham



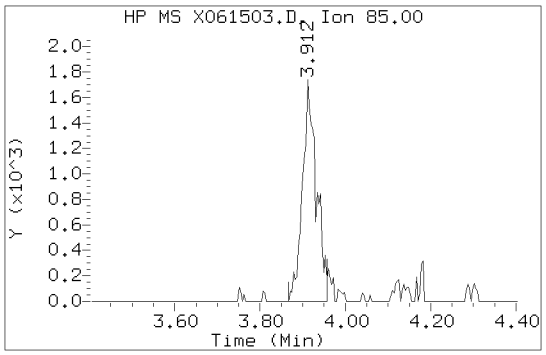

BEFORE

MASS
85
AREA
3961
HEIGHT
1740
20-Jun-2023
18:22
linh
pham




AFTER

MASS
85
AREA
3961
HEIGHT
1740
20-Jun-2023
18:22
linh
pham



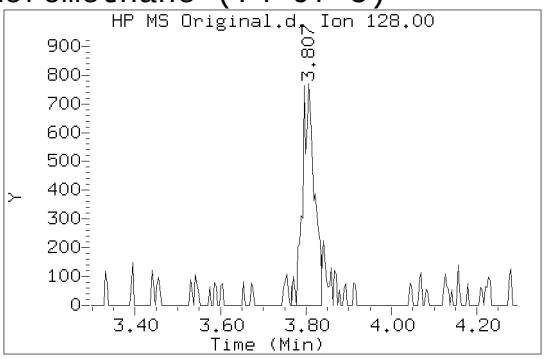
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## Bromochloromethane (74-97-5)

Reason Code:

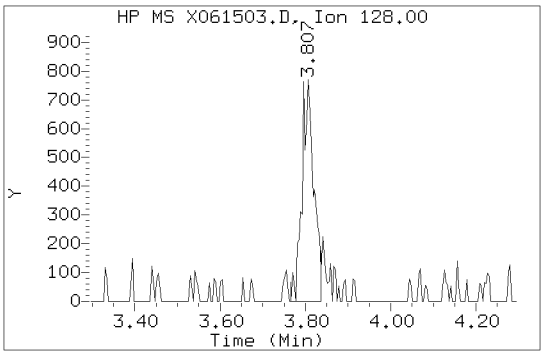
**BEFORE**

MASS
128
AREA
1516
HEIGHT
770
20-Jun-2023
18:22
linh
pham



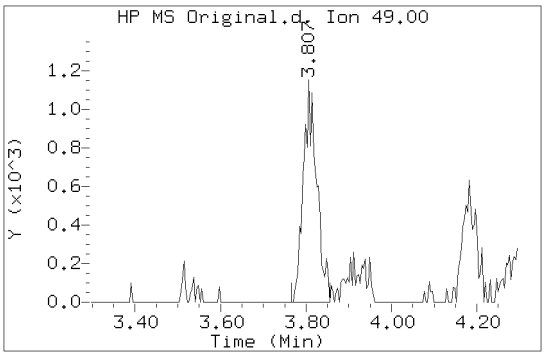

**AFTER**

MASS
128
AREA
1516
HEIGHT
770
20-Jun-2023
18:22
linh
pham



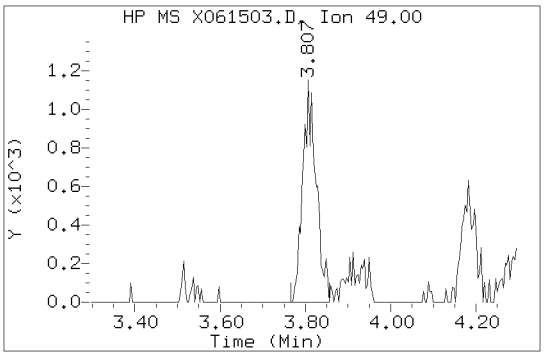

**BEFORE**

MASS
49
AREA
2523
HEIGHT
1153
20-Jun-2023
18:22
linh
pham



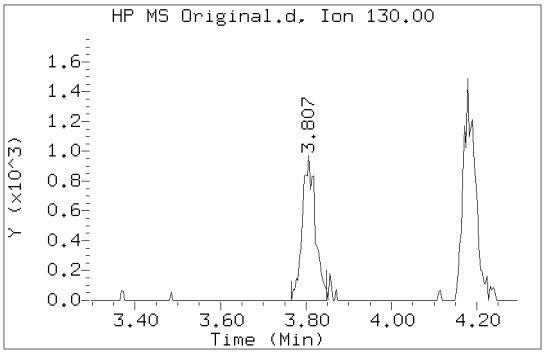

**AFTER**

MASS
49
AREA
2523
HEIGHT
1153
20-Jun-2023
18:22
linh
pham



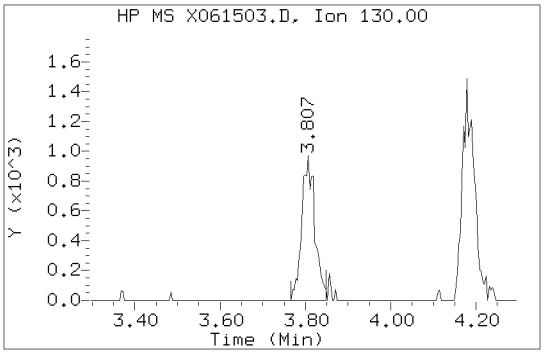

**BEFORE**

MASS
130
AREA
2109
HEIGHT
971
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
130
AREA
2109
HEIGHT
971
20-Jun-2023
18:22
linh
pham

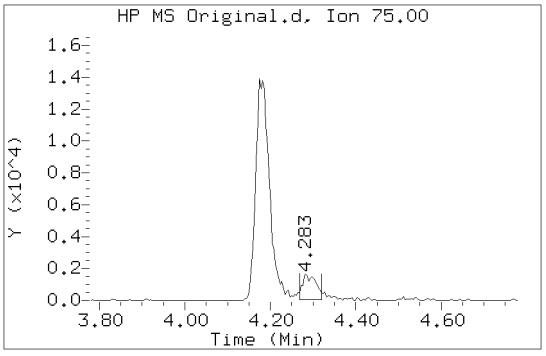



## 1,1-Dichloropropene (563-58-6)

Reason Code:

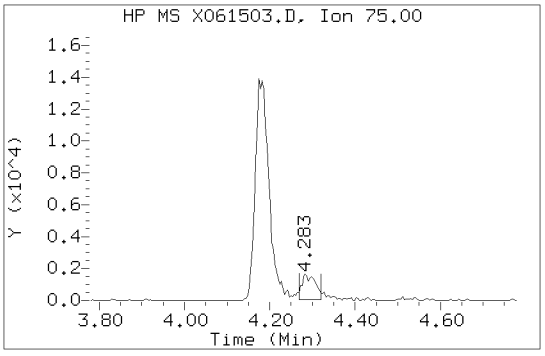
**BEFORE**

MASS
75
AREA
3575
HEIGHT
1615
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
75
AREA
3575
HEIGHT
1615
20-Jun-2023
18:22
linh
pham

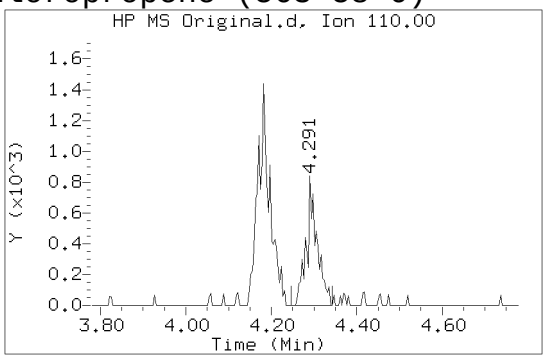


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

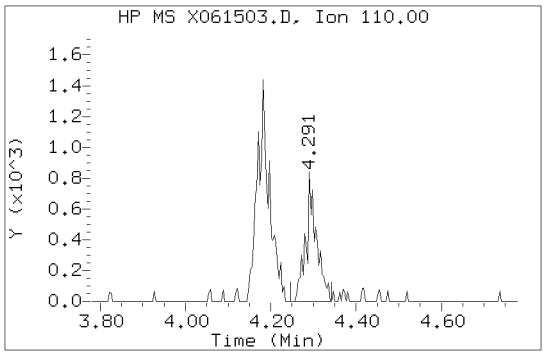
## 1,1-Dichloropropene (563-58-6)

Reason Code:

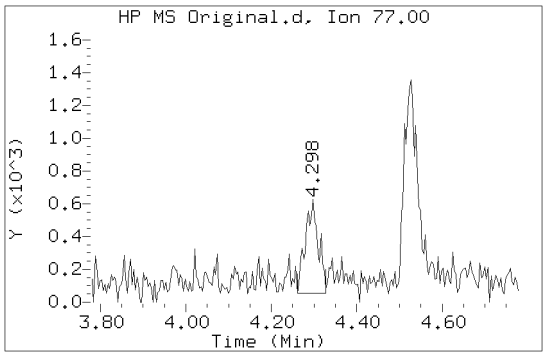
BEFORE
MASS
110
AREA
1455
HEIGHT
841
20-Jun-2023
18:22
linh
pham



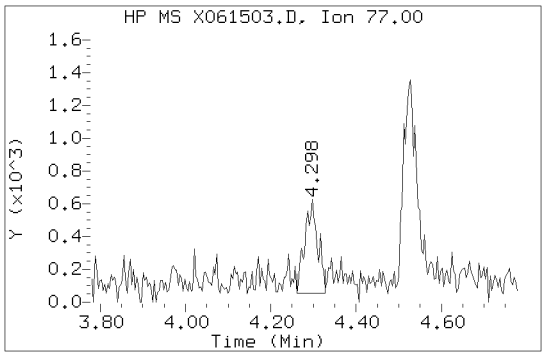

AFTER
MASS
110
AREA
1455
HEIGHT
841
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
77
AREA
1207
HEIGHT
572
20-Jun-2023
18:22
linh
pham



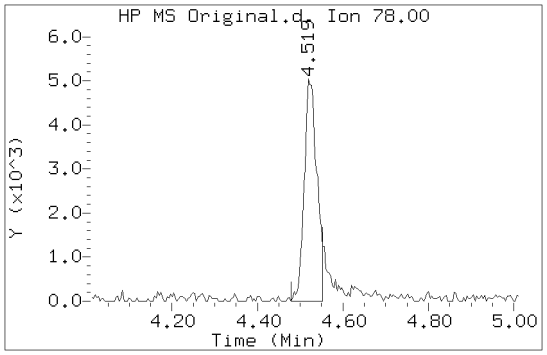

AFTER
MASS
77
AREA
1207
HEIGHT
572
20-Jun-2023
18:22
linh
pham



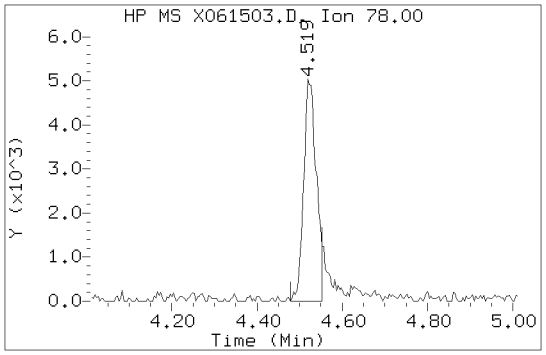

## Benzene (71-43-2)

Reason Code:

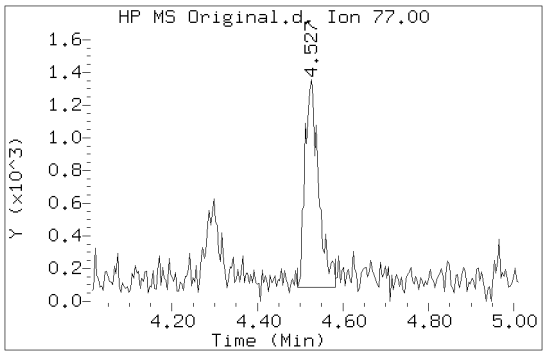
BEFORE
MASS
78
AREA
10562
HEIGHT
5044
20-Jun-2023
18:22
linh
pham



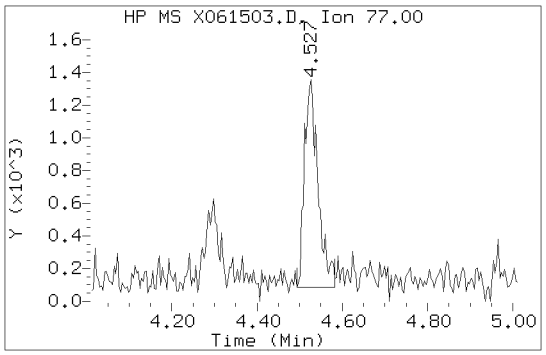

AFTER
MASS
78
AREA
10562
HEIGHT
5044
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
77
AREA
2831
HEIGHT
1269
20-Jun-2023
18:22
linh
pham




AFTER
MASS
77
AREA
2831
HEIGHT
1269
20-Jun-2023
18:22
linh
pham



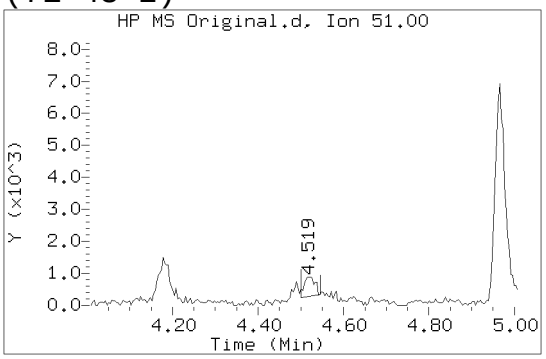
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## Benzene (71-43-2)

Reason Code:

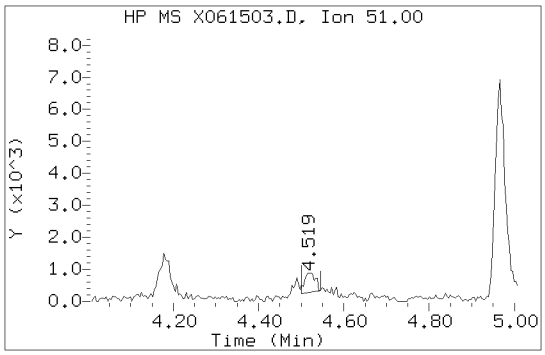
BEFORE

MASS
51
AREA
1097
HEIGHT
604
20-Jun-2023
18:22
linh
pham




AFTER

MASS
51
AREA
1097
HEIGHT
604
20-Jun-2023
18:22
linh
pham

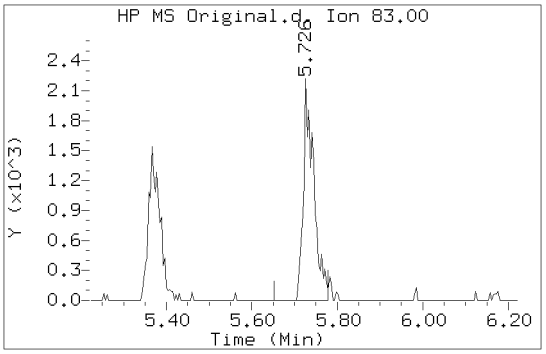



## Bromodichloromethane (75-27-4)

Reason Code:

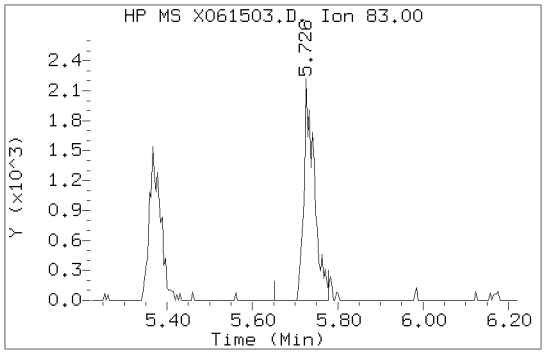
BEFORE

MASS
83
AREA
3787
HEIGHT
2221
20-Jun-2023
18:22
linh
pham



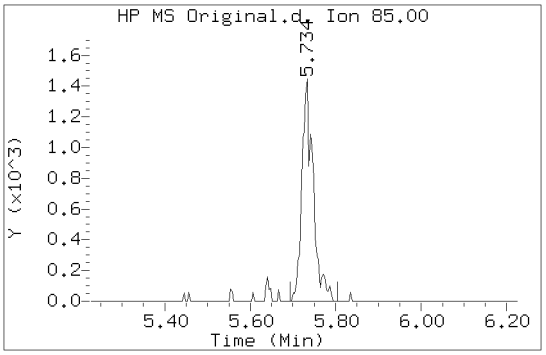

AFTER

MASS
83
AREA
3787
HEIGHT
2221
20-Jun-2023
18:22
linh
pham



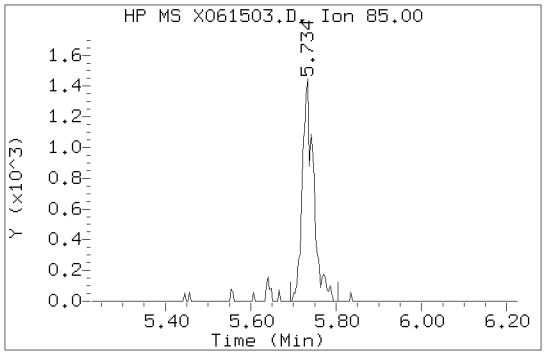

BEFORE

MASS
85
AREA
2700
HEIGHT
1447
20-Jun-2023
18:22
linh
pham



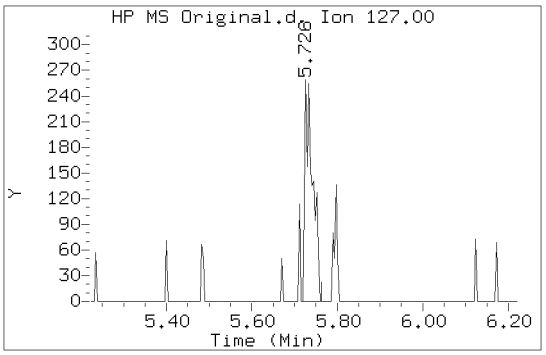

AFTER

MASS
85
AREA
2700
HEIGHT
1447
20-Jun-2023
18:22
linh
pham



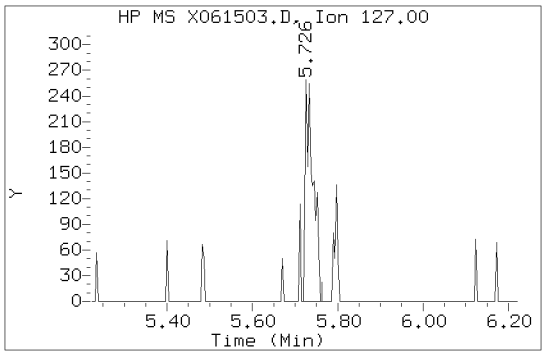

BEFORE

MASS
127
AREA
334
HEIGHT
259
20-Jun-2023
18:22
linh
pham




AFTER

MASS
127
AREA
334
HEIGHT
259
20-Jun-2023
18:22
linh
pham



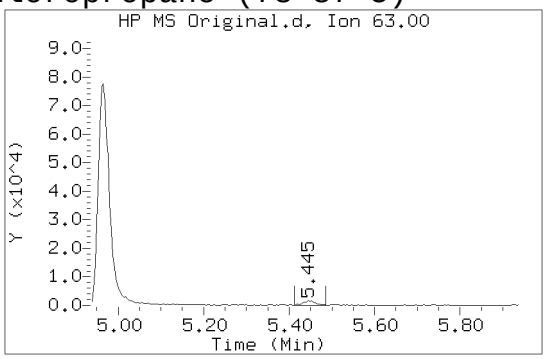
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## 1,2-Dichloropropane (78-87-5)

Reason Code:

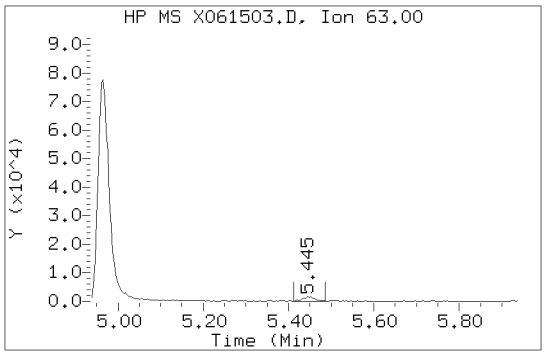
**BEFORE**

MASS
63
AREA
2801
HEIGHT
1642
20-Jun-2023
18:22
linh
pham



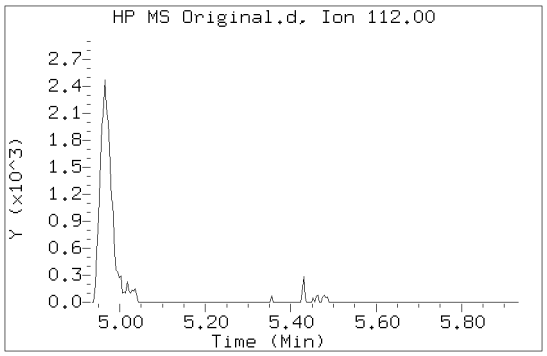

**AFTER**

MASS
63
AREA
2801
HEIGHT
1642
20-Jun-2023
18:22
linh
pham



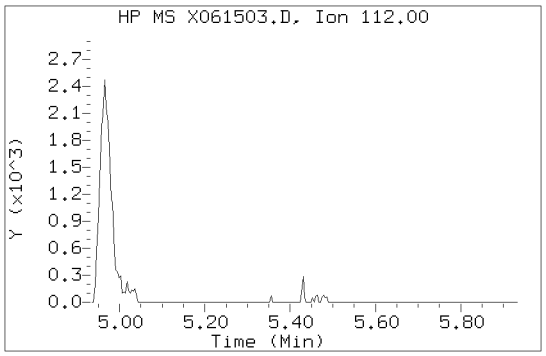

**BEFORE**

MASS
112
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
112
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

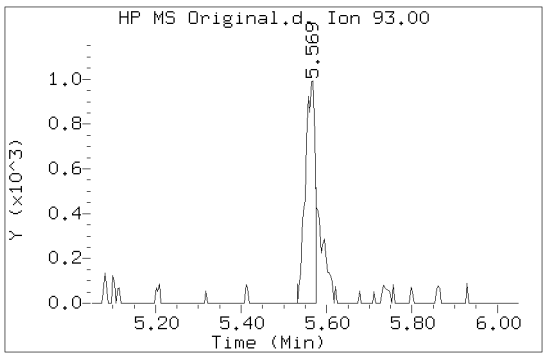



## Dibromomethane (74-95-3)

Reason Code:

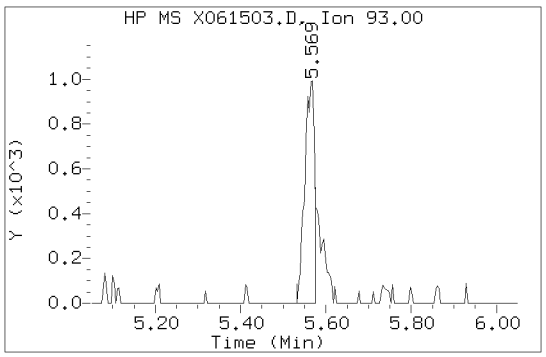
**BEFORE**

MASS
93
AREA
1589
HEIGHT
993
20-Jun-2023
18:22
linh
pham



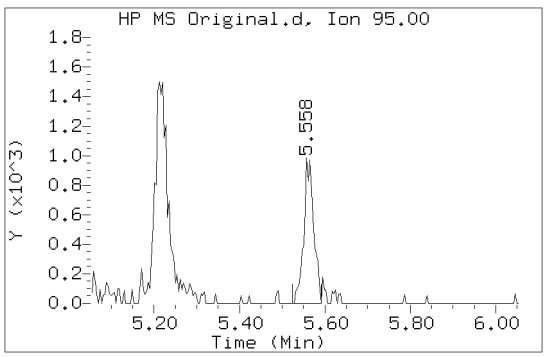

**AFTER**

MASS
93
AREA
1589
HEIGHT
993
20-Jun-2023
18:22
linh
pham



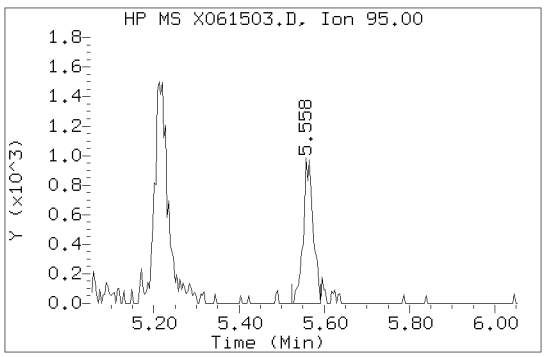

**BEFORE**

MASS
95
AREA
1616
HEIGHT
984
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
95
AREA
1616
HEIGHT
984
20-Jun-2023
18:22
linh
pham



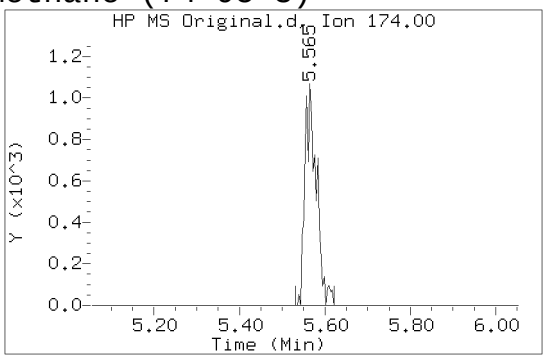
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## Dibromomethane (74-95-3)

Reason Code:

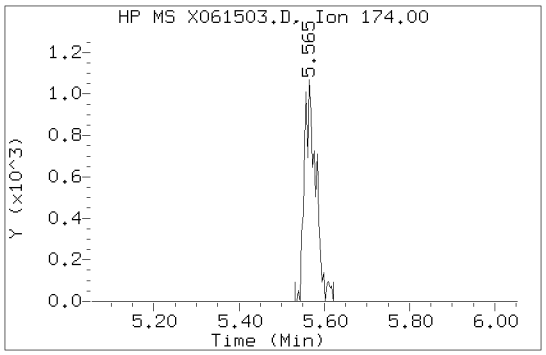
**BEFORE**

MASS
174
AREA
2024
HEIGHT
1069
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
174
AREA
2024
HEIGHT
1069
20-Jun-2023
18:22
linh
pham

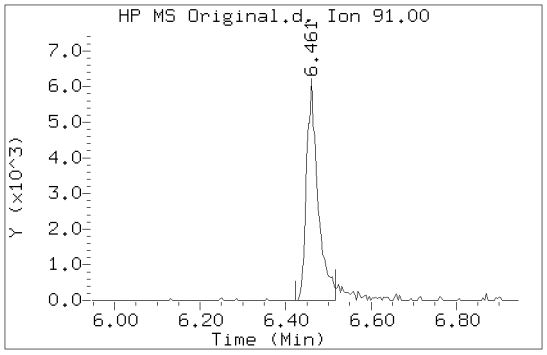



## Toluene (108-88-3)

Reason Code:

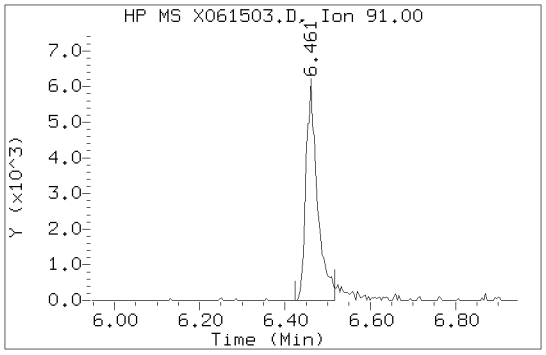
**BEFORE**

MASS
91
AREA
11582
HEIGHT
6218
20-Jun-2023
18:22
linh
pham



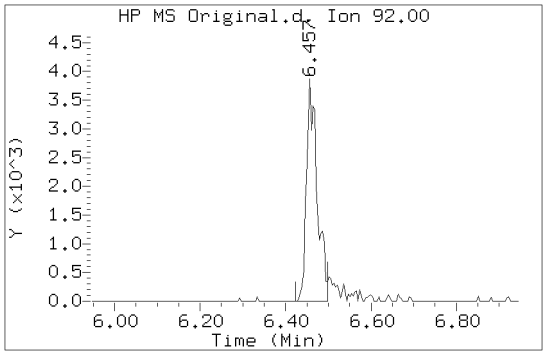

**AFTER**

MASS
91
AREA
11582
HEIGHT
6218
20-Jun-2023
18:22
linh
pham



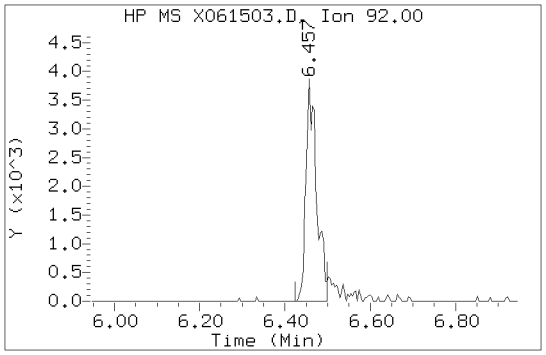

**BEFORE**

MASS
92
AREA
6796
HEIGHT
3869
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
92
AREA
6796
HEIGHT
3869
20-Jun-2023
18:22
linh
pham

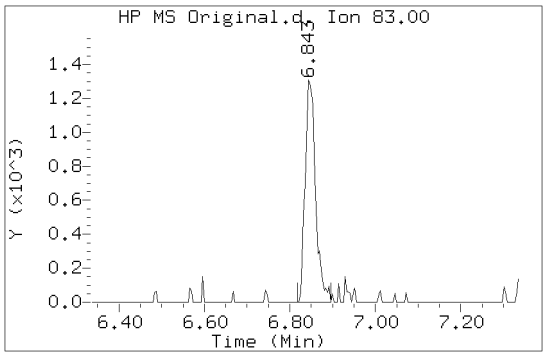



## 1,1,2-Trichloroethane (79-00-5)

Reason Code:

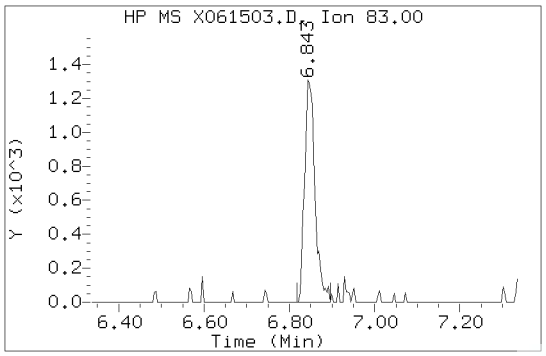
**BEFORE**

MASS
83
AREA
2237
HEIGHT
1309
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
83
AREA
2237
HEIGHT
1309
20-Jun-2023
18:22
linh
pham



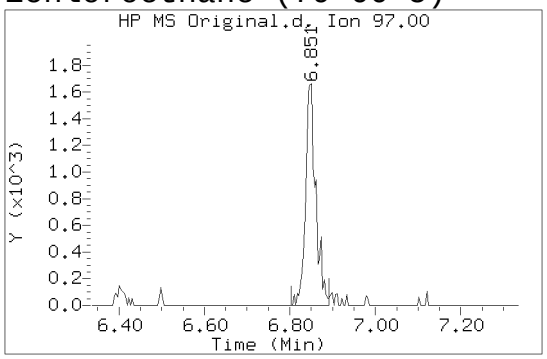
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Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## 1,1,2-Trichloroethane (79-00-5)

Reason Code:

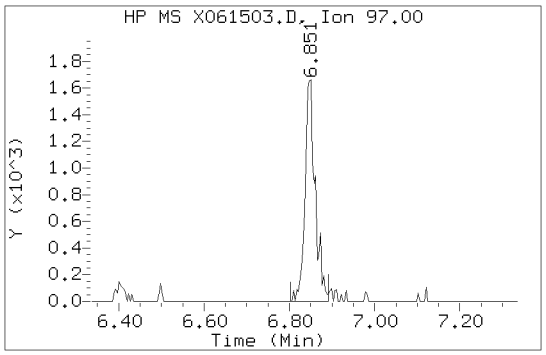
**BEFORE**

MASS
97
AREA
2754
HEIGHT
1663
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
97
AREA
2754
HEIGHT
1663
20-Jun-2023
18:22
linh
pham

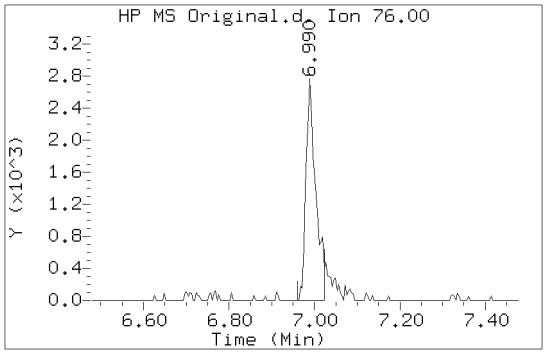



## 1,3-Dichloropropane (142-28-9)

Reason Code:

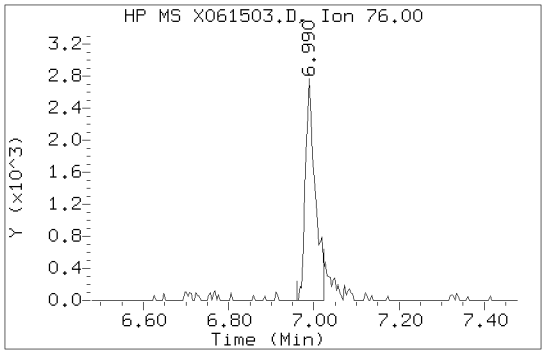
**BEFORE**

MASS
76
AREA
4459
HEIGHT
2769
20-Jun-2023
18:22
linh
pham



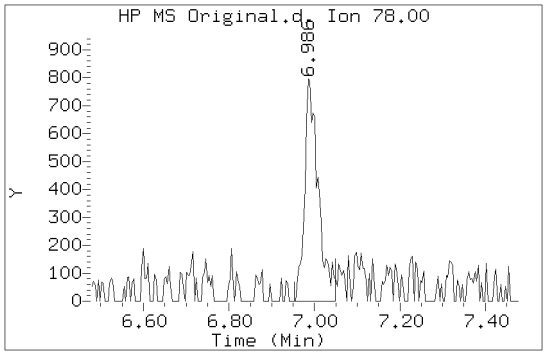

**AFTER**

MASS
76
AREA
4459
HEIGHT
2769
20-Jun-2023
18:22
linh
pham



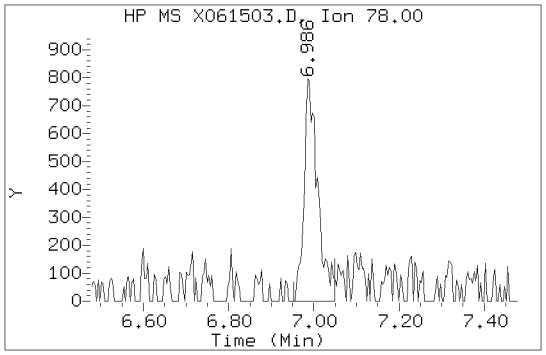

**BEFORE**

MASS
78
AREA
1798
HEIGHT
796
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
78
AREA
1798
HEIGHT
796
20-Jun-2023
18:22
linh
pham

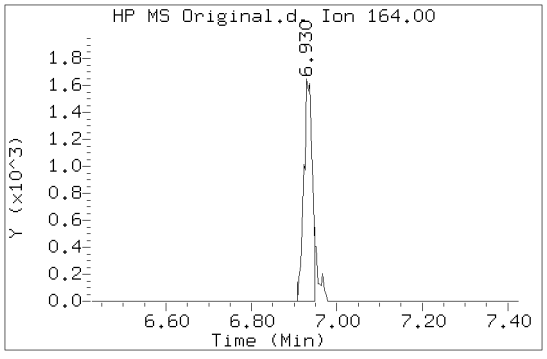



## Tetrachloroethene (127-18-4)

Reason Code:

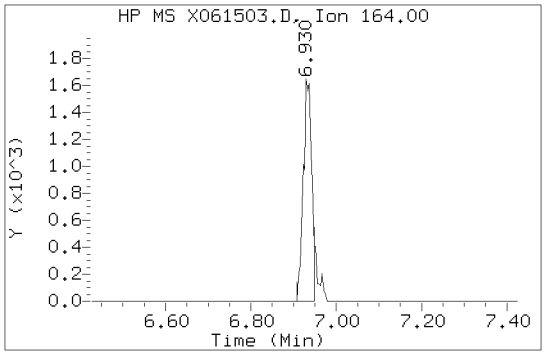
**BEFORE**

MASS
164
AREA
2291
HEIGHT
1649
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
164
AREA
2291
HEIGHT
1649
20-Jun-2023
18:22
linh
pham



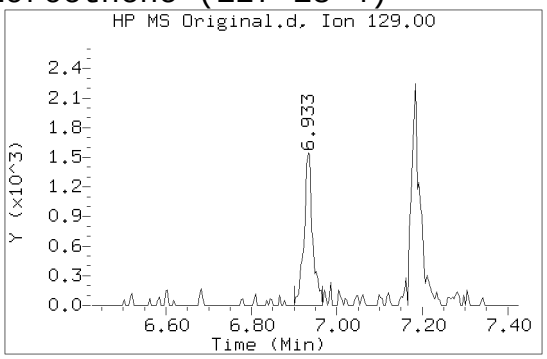
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## Tetrachloroethene (127-18-4)

Reason Code:

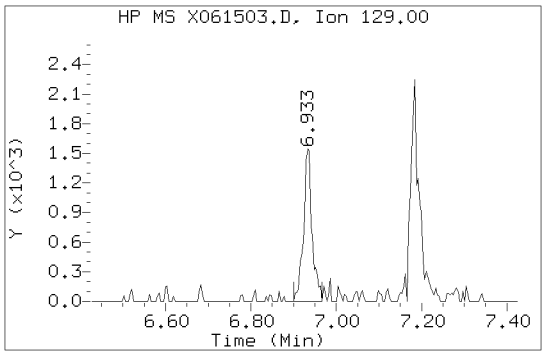
**BEFORE**

MASS
129
AREA
2191
HEIGHT
1543
20-Jun-2023
18:22
linh
pham



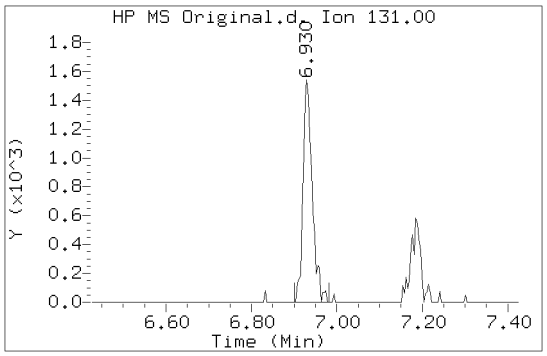

**AFTER**

MASS
129
AREA
2191
HEIGHT
1543
20-Jun-2023
18:22
linh
pham



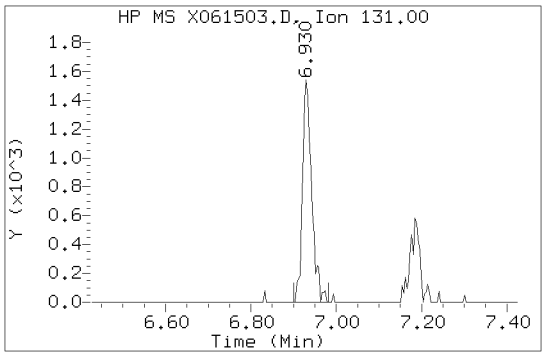

**BEFORE**

MASS
131
AREA
2372
HEIGHT
1541
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
131
AREA
2372
HEIGHT
1541
20-Jun-2023
18:22
linh
pham

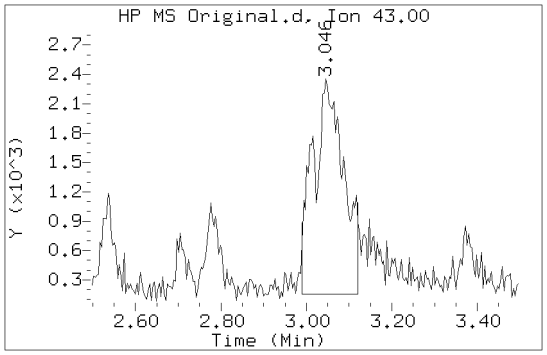



## Vinyl Acetate (108-05-4)

Reason Code:

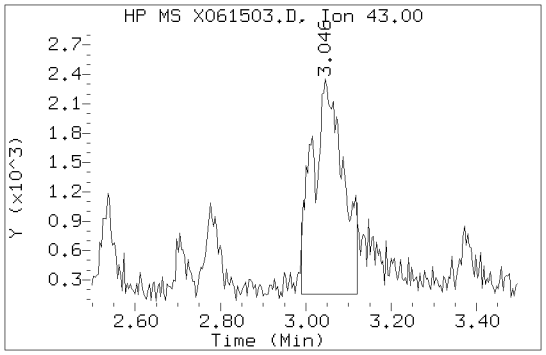
**BEFORE**

MASS
43
AREA
11055
HEIGHT
2198
20-Jun-2023
18:22
linh
pham



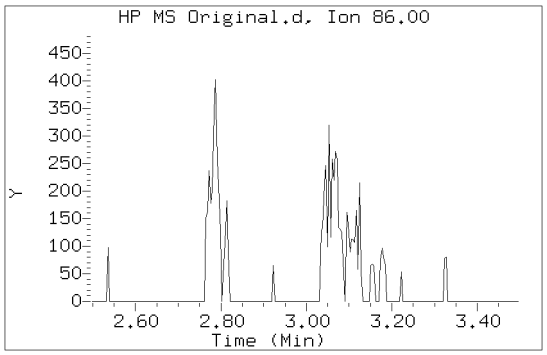

**AFTER**

MASS
43
AREA
11055
HEIGHT
2198
20-Jun-2023
18:22
linh
pham



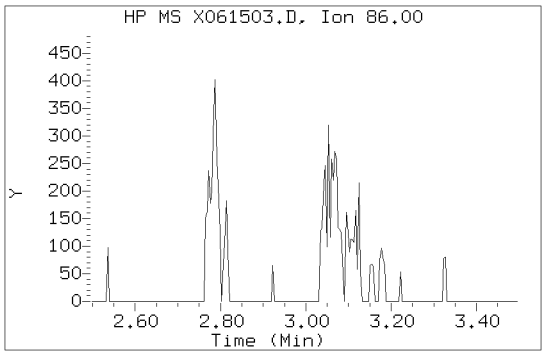

**BEFORE**

MASS
86
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
86
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



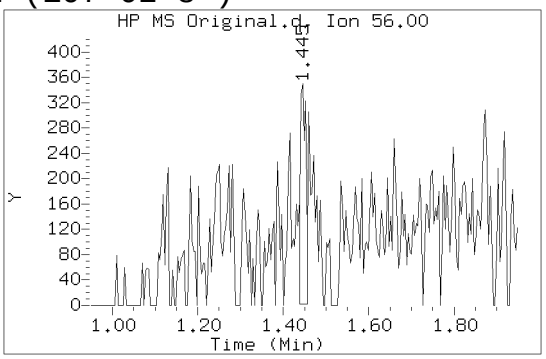
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## Acrolein (107-02-8 )

Reason Code:

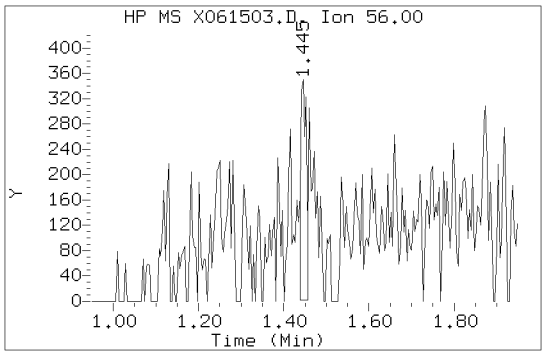
BEFORE

MASS
56
AREA
343
HEIGHT
348
20-Jun-2023
18:22
linh
pham



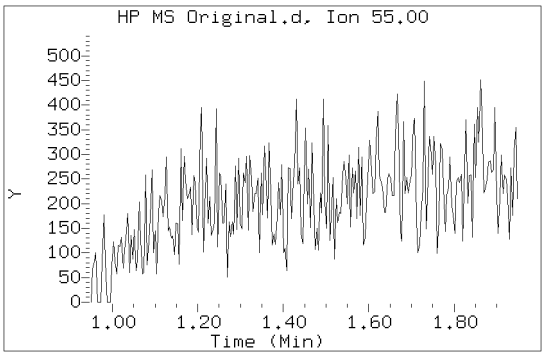

AFTER

MASS
56
AREA
343
HEIGHT
348
20-Jun-2023
18:22
linh
pham



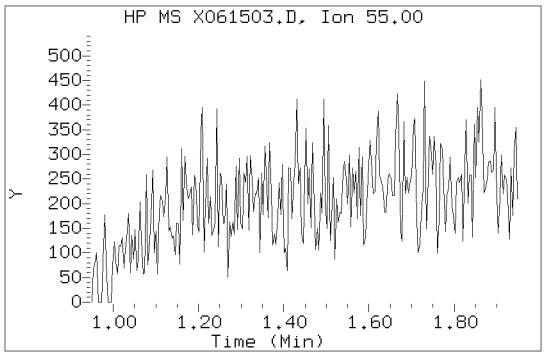

BEFORE

MASS
55
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER

MASS
55
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

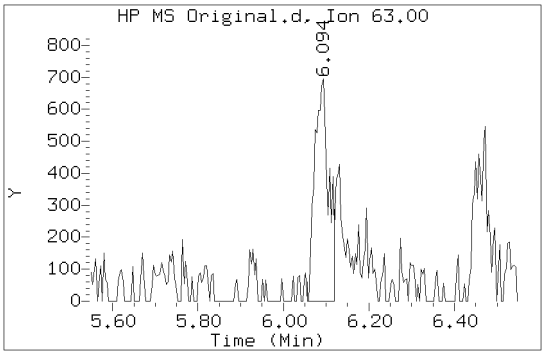



## 2-Chloroethylvinyl ether (110-75-8)

Reason Code:

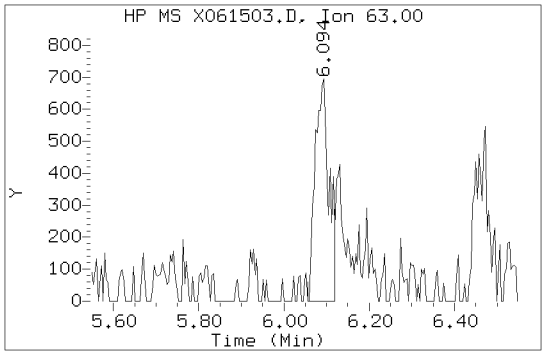
BEFORE

MASS
63
AREA
1563
HEIGHT
695
20-Jun-2023
18:22
linh
pham



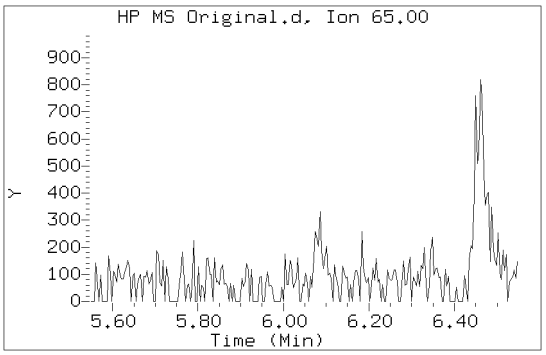

AFTER

MASS
63
AREA
1563
HEIGHT
695
20-Jun-2023
18:22
linh
pham



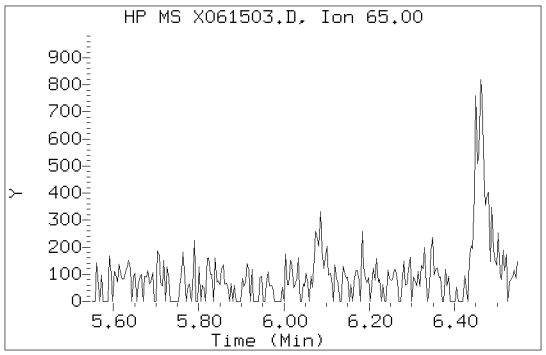

BEFORE

MASS
65
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER

MASS
65
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

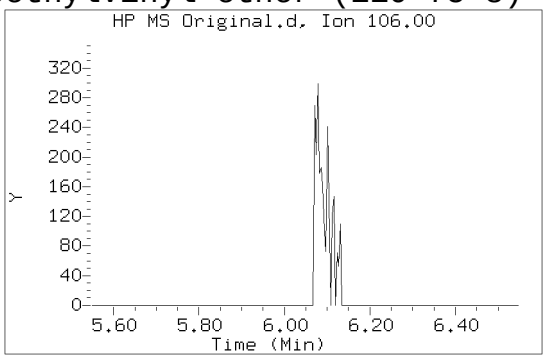


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

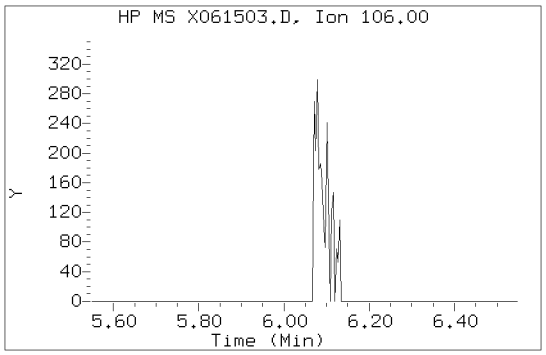
## 2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE
MASS
106
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



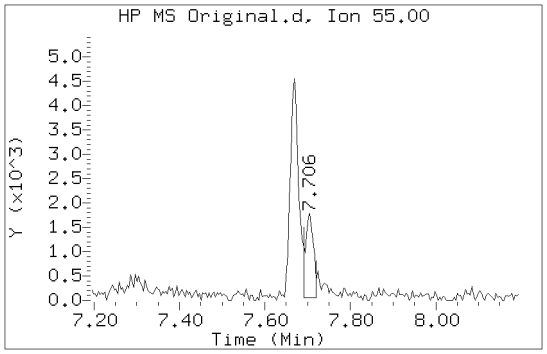

AFTER
MASS
106
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



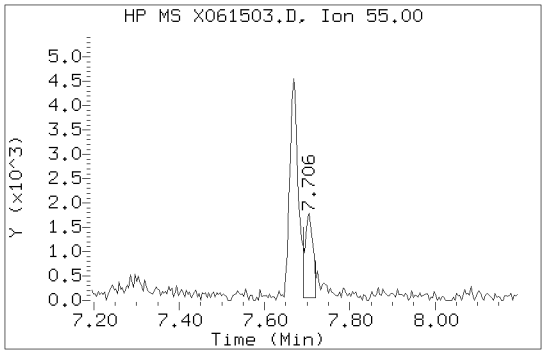

## 1-Chlorohexane (544-10-5)

Reason Code:

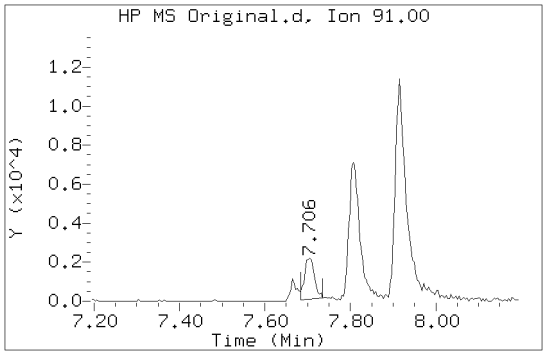
BEFORE
MASS
55
AREA
2351
HEIGHT
1734
20-Jun-2023
18:22
linh
pham



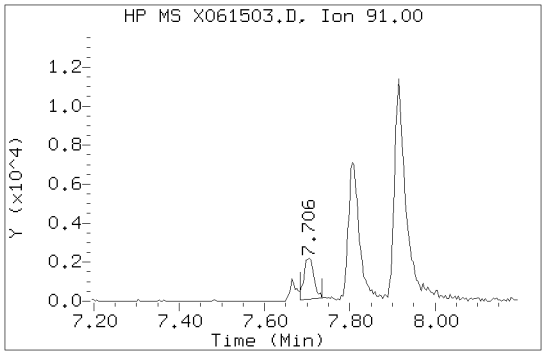

AFTER
MASS
55
AREA
2351
HEIGHT
1734
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
91
AREA
3502
HEIGHT
2100
20-Jun-2023
18:22
linh
pham



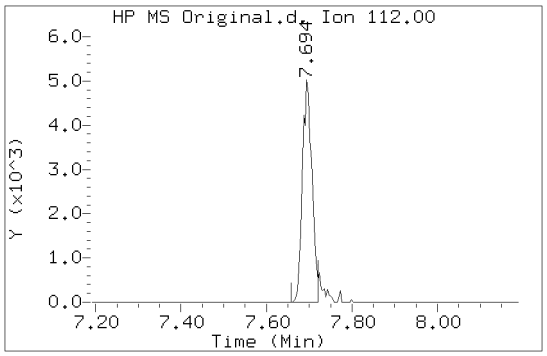

AFTER
MASS
91
AREA
3502
HEIGHT
2100
20-Jun-2023
18:22
linh
pham



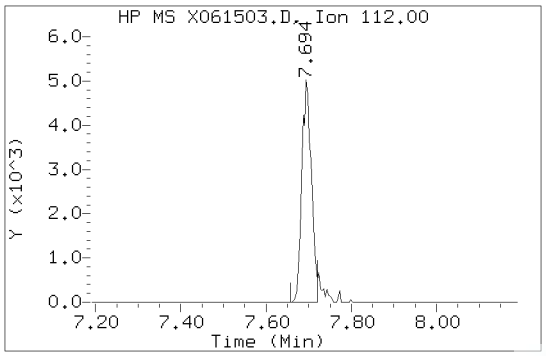

## Chlorobenzene (108-90-7)

Reason Code:

BEFORE
MASS
112
AREA
8017
HEIGHT
5025
20-Jun-2023
18:22
linh
pham




AFTER
MASS
112
AREA
8017
HEIGHT
5025
20-Jun-2023
18:22
linh
pham



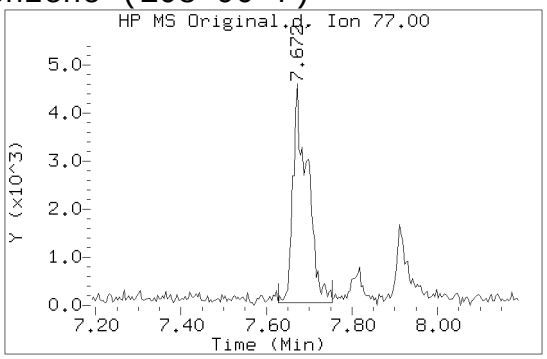
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## Chlorobenzene (108-90-7)

Reason Code:

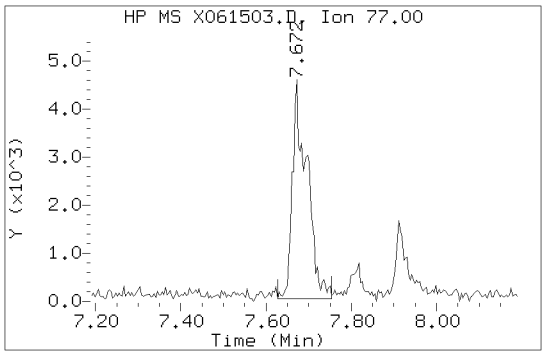
BEFORE

MASS
77
AREA
10984
HEIGHT
4562
20-Jun-2023
18:22
linh
pham



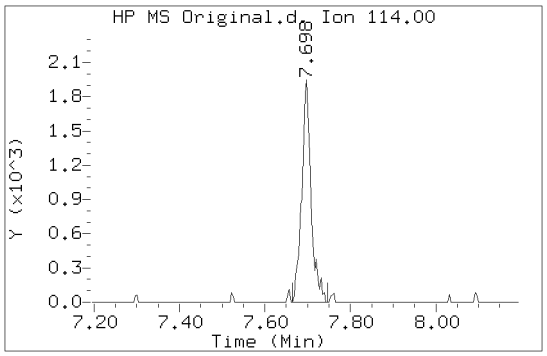

AFTER

MASS
77
AREA
10984
HEIGHT
4562
20-Jun-2023
18:22
linh
pham



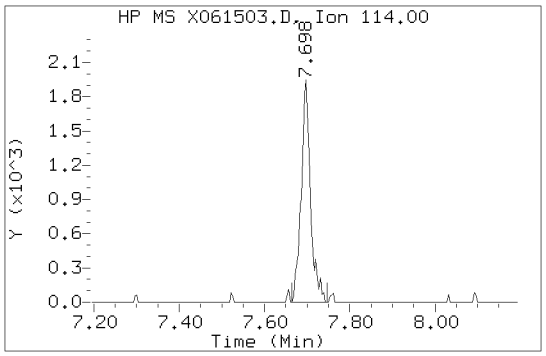

BEFORE

MASS
114
AREA
3036
HEIGHT
1947
20-Jun-2023
18:22
linh
pham




AFTER

MASS
114
AREA
3036
HEIGHT
1947
20-Jun-2023
18:22
linh
pham

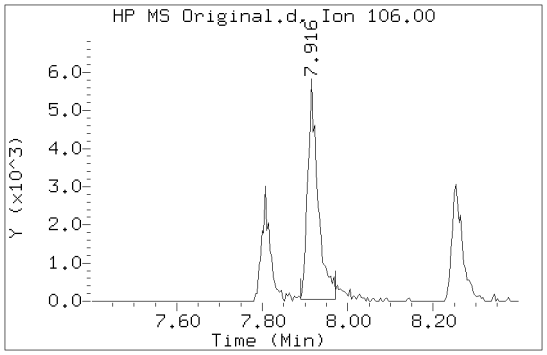



## m,p-Xylenes ()

Reason Code:

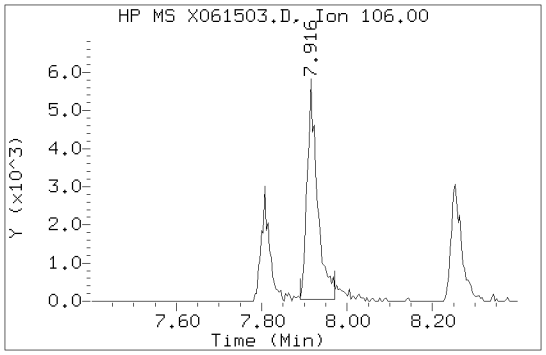
BEFORE

MASS
106
AREA
9595
HEIGHT
5771
20-Jun-2023
18:22
linh
pham



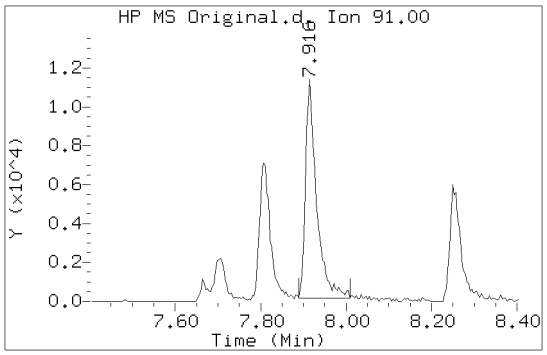

AFTER

MASS
106
AREA
9595
HEIGHT
5771
20-Jun-2023
18:22
linh
pham



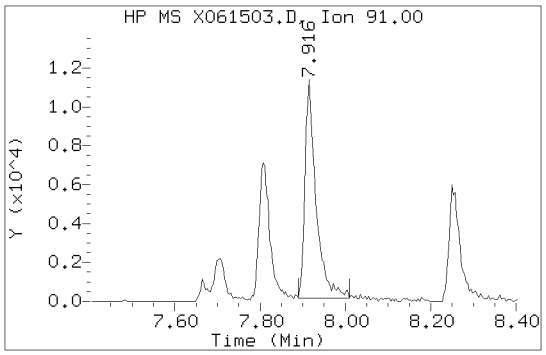

BEFORE

MASS
91
AREA
20412
HEIGHT
11224
20-Jun-2023
18:22
linh
pham




AFTER

MASS
91
AREA
20412
HEIGHT
11224
20-Jun-2023
18:22
linh
pham



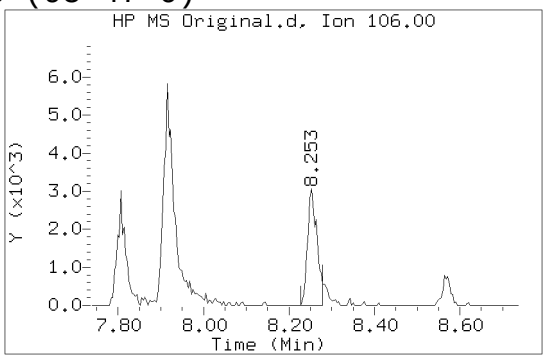
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## o-Xylene (95-47-6)

Reason Code:

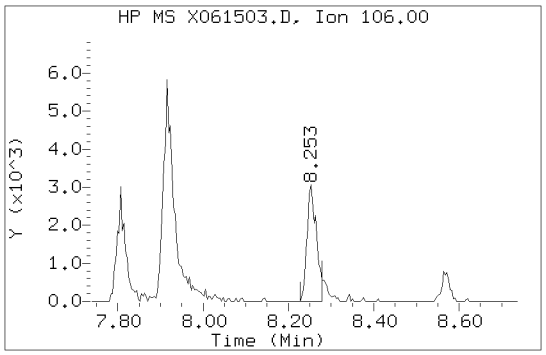
**BEFORE**

MASS
106
AREA
4730
HEIGHT
3061
20-Jun-2023
18:22
linh
pham



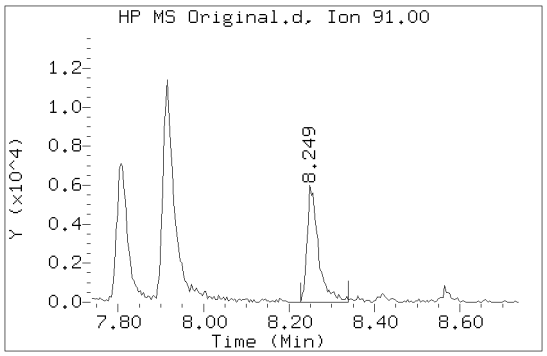

**AFTER**

MASS
106
AREA
4730
HEIGHT
3061
20-Jun-2023
18:22
linh
pham



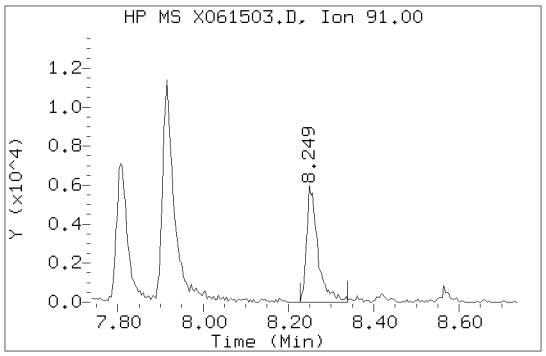

**BEFORE**

MASS
91
AREA
11044
HEIGHT
5995
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
91
AREA
11044
HEIGHT
5995
20-Jun-2023
18:22
linh
pham

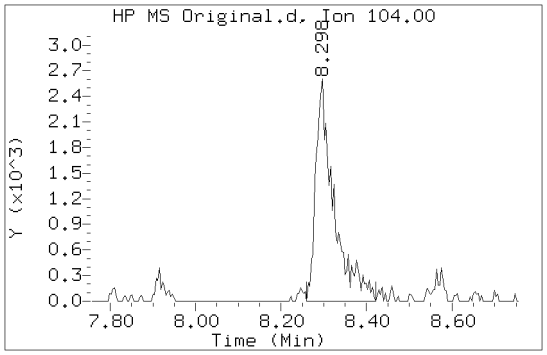



## Styrene (100-42-5)

Reason Code:

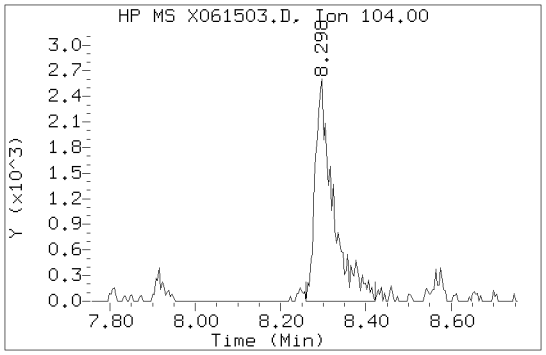
**BEFORE**

MASS
104
AREA
7646
HEIGHT
2604
20-Jun-2023
18:22
linh
pham



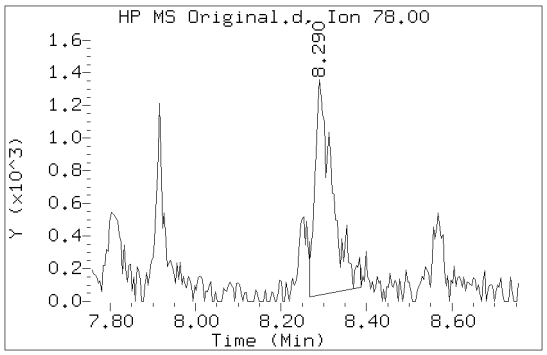

**AFTER**

MASS
104
AREA
7646
HEIGHT
2604
20-Jun-2023
18:22
linh
pham



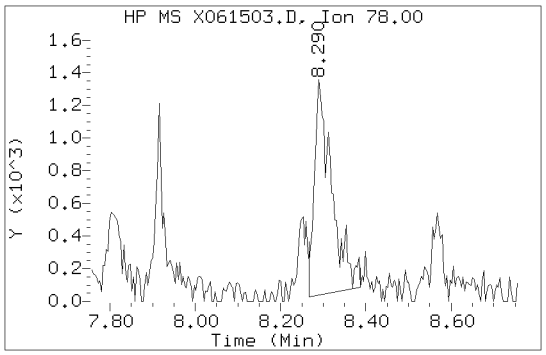

**BEFORE**

MASS
78
AREA
3712
HEIGHT
1318
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
78
AREA
3712
HEIGHT
1318
20-Jun-2023
18:22
linh
pham

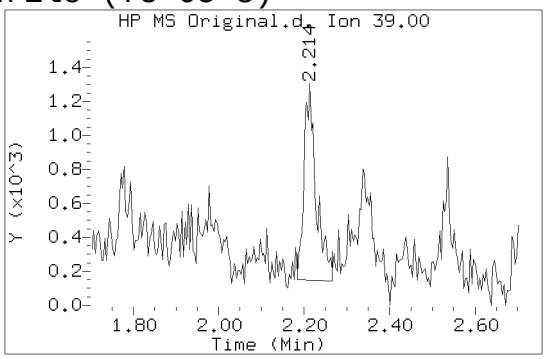


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

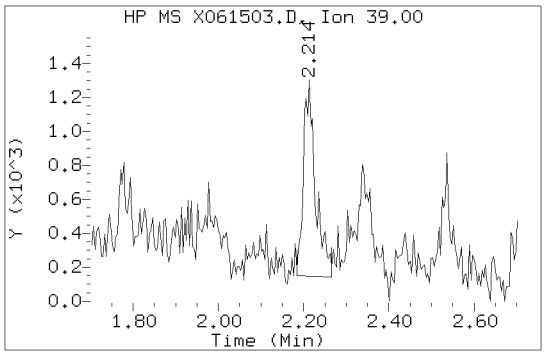
## Acetonitrile (75-05-8)

Reason Code:

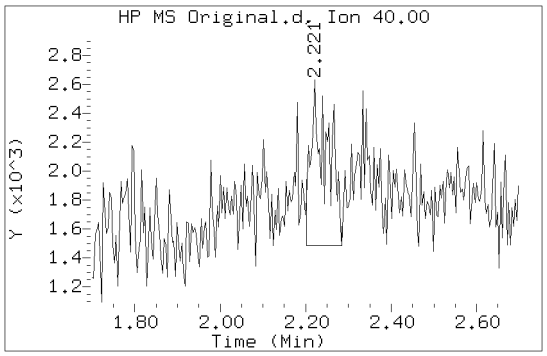
BEFORE
MASS
39
AREA
2269
HEIGHT
1156
20-Jun-2023
18:22
linh
pham



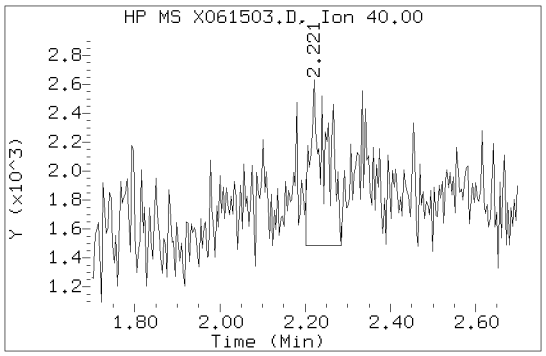

AFTER
MASS
39
AREA
2269
HEIGHT
1156
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
40
AREA
3102
HEIGHT
1145
20-Jun-2023
18:22
linh
pham



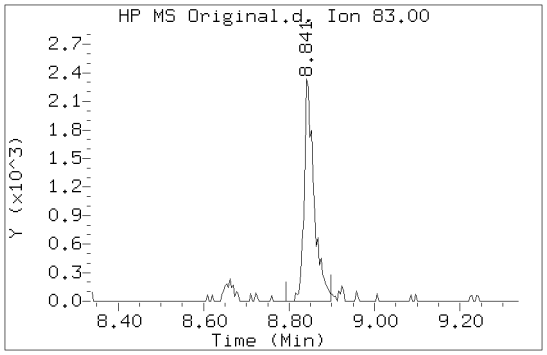

AFTER
MASS
40
AREA
3102
HEIGHT
1145
20-Jun-2023
18:22
linh
pham



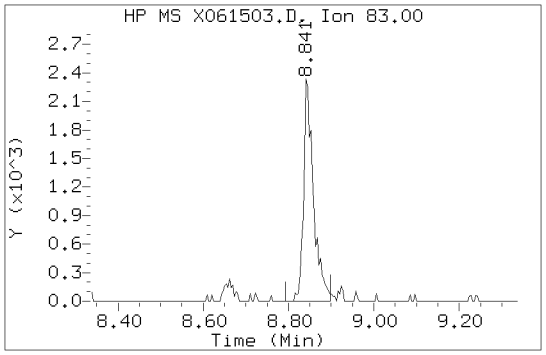

## 1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

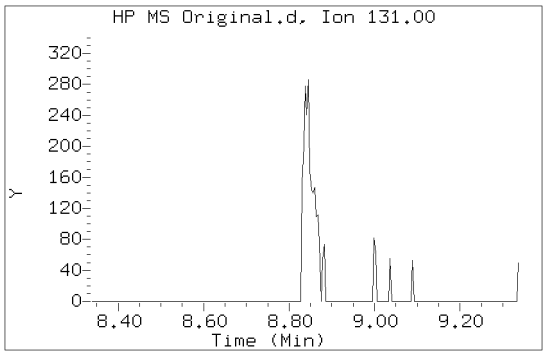
BEFORE
MASS
83
AREA
3818
HEIGHT
2336
20-Jun-2023
18:22
linh
pham



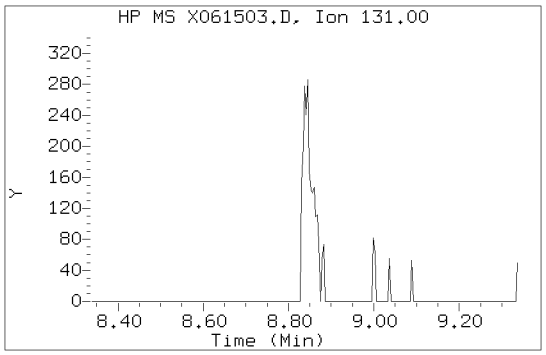

AFTER
MASS
83
AREA
3818
HEIGHT
2336
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
131
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER
MASS
131
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



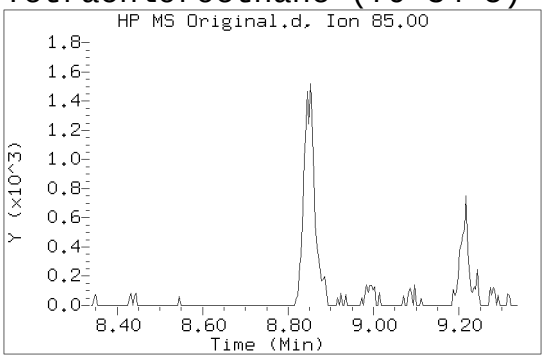
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## 1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

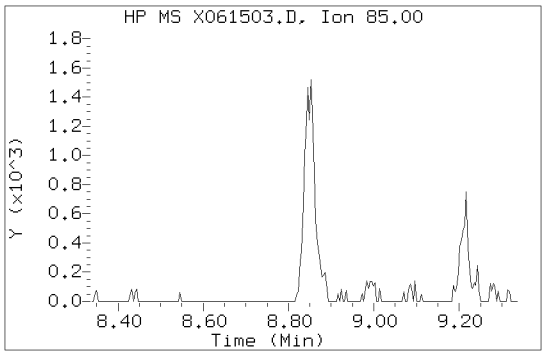
BEFORE

MASS
85
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER

MASS
85
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

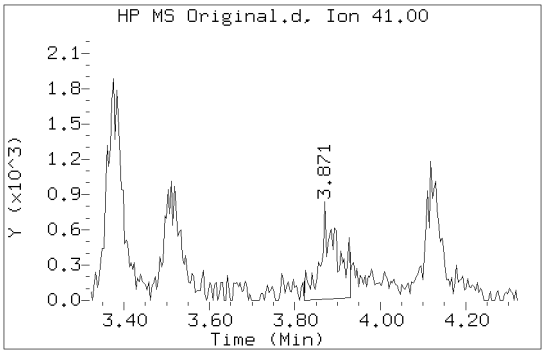



## Methacrylonitrile (126-98-7)

Reason Code:

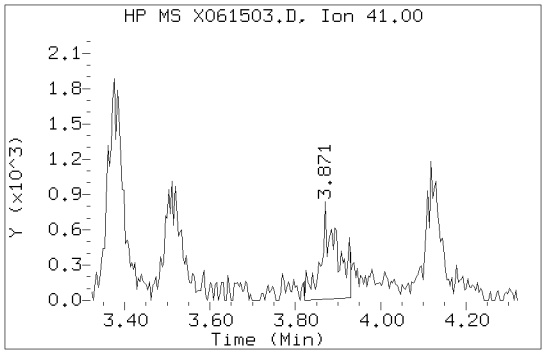
BEFORE

MASS
41
AREA
2167
HEIGHT
829
20-Jun-2023
18:22
linh
pham



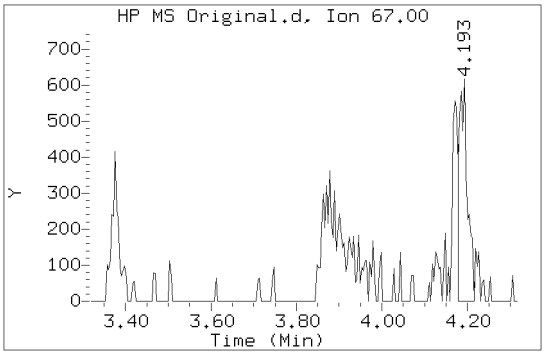

AFTER

MASS
41
AREA
2167
HEIGHT
829
20-Jun-2023
18:22
linh
pham



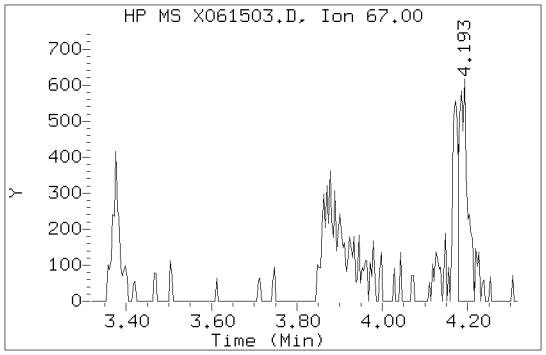

BEFORE

MASS
67
AREA
843
HEIGHT
617
20-Jun-2023
18:22
linh
pham



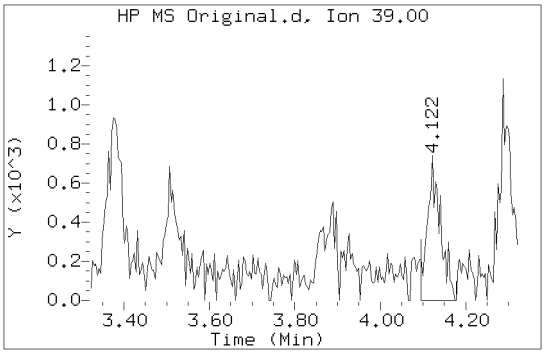

AFTER

MASS
67
AREA
843
HEIGHT
617
20-Jun-2023
18:22
linh
pham



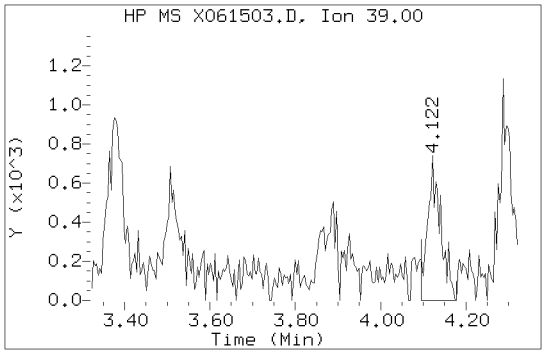

BEFORE

MASS
39
AREA
1554
HEIGHT
740
20-Jun-2023
18:22
linh
pham




AFTER

MASS
39
AREA
1554
HEIGHT
740
20-Jun-2023
18:22
linh
pham



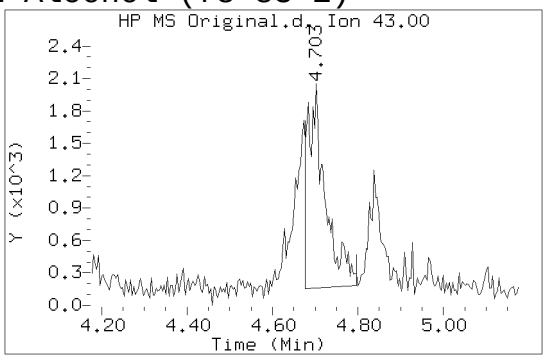
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## Isobutyl Alcohol (78-83-1)

Reason Code:

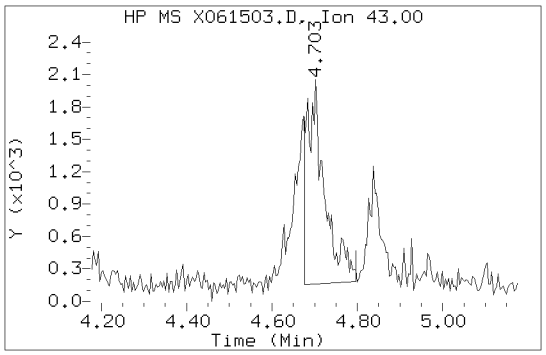
**BEFORE**

MASS
43
AREA
5465
HEIGHT
1892
20-Jun-2023
18:22
linh
pham



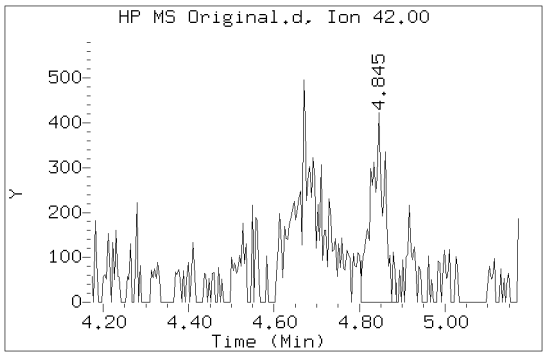

**AFTER**

MASS
43
AREA
5465
HEIGHT
1892
20-Jun-2023
18:22
linh
pham



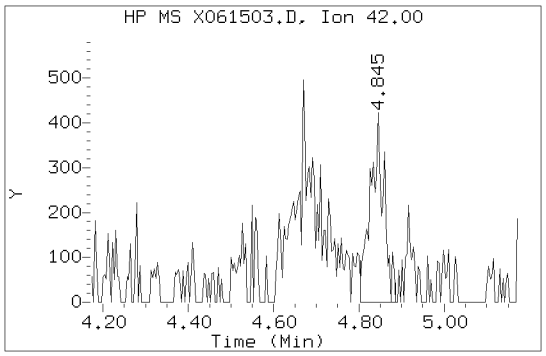

**BEFORE**

MASS
42
AREA
927
HEIGHT
423
20-Jun-2023
18:22
linh
pham



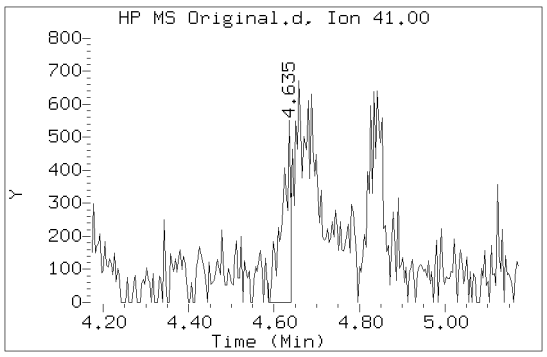

**AFTER**

MASS
42
AREA
927
HEIGHT
423
20-Jun-2023
18:22
linh
pham



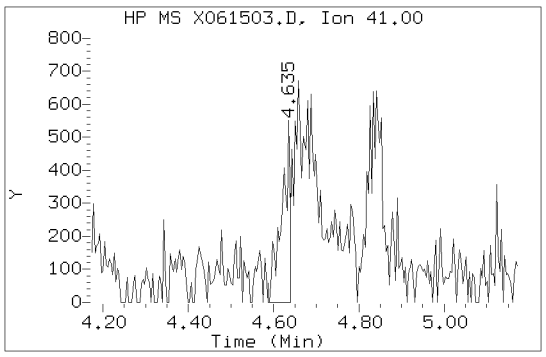

**BEFORE**

MASS
41
AREA
729
HEIGHT
551
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
41
AREA
729
HEIGHT
551
20-Jun-2023
18:22
linh
pham

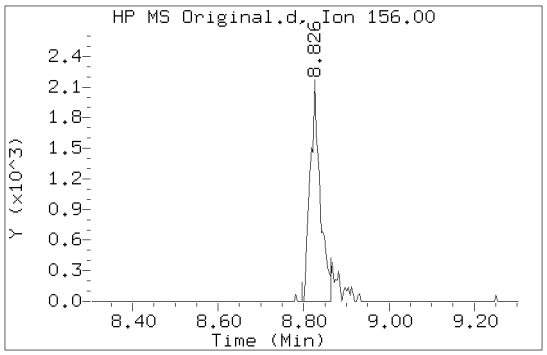



## Bromobenzene (108-86-1)

Reason Code:

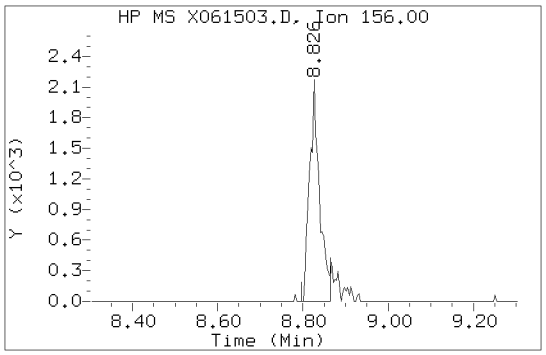
**BEFORE**

MASS
156
AREA
3535
HEIGHT
2172
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
156
AREA
3535
HEIGHT
2172
20-Jun-2023
18:22
linh
pham



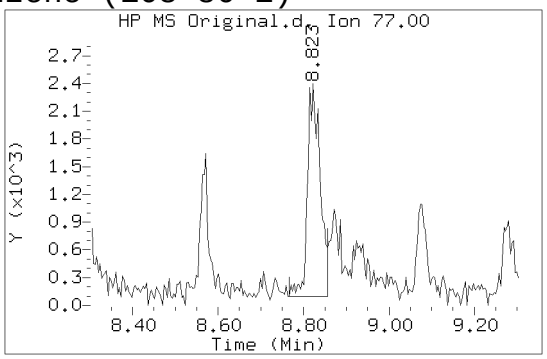
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## Bromobenzene (108-86-1)

Reason Code:

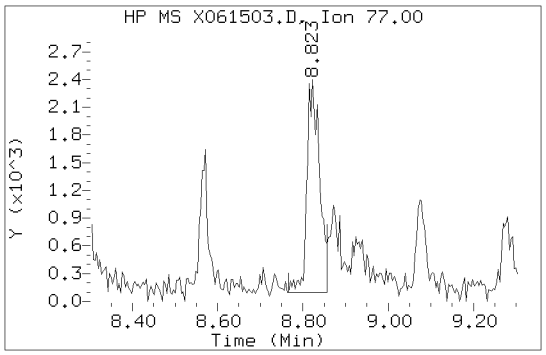
BEFORE

MASS
77
AREA
4744
HEIGHT
2298
20-Jun-2023
18:22
linh
pham



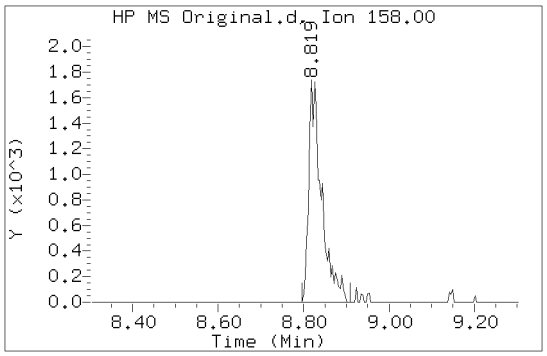

AFTER

MASS
77
AREA
4744
HEIGHT
2298
20-Jun-2023
18:22
linh
pham



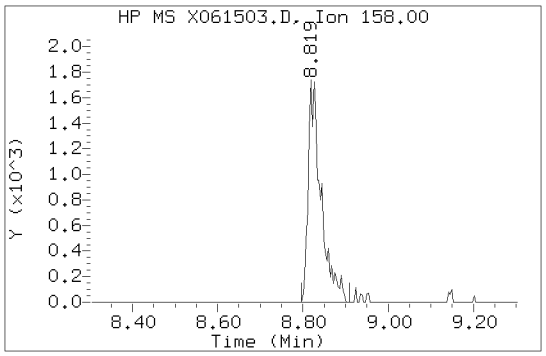

BEFORE

MASS
158
AREA
3619
HEIGHT
1739
20-Jun-2023
18:22
linh
pham




AFTER

MASS
158
AREA
3619
HEIGHT
1739
20-Jun-2023
18:22
linh
pham

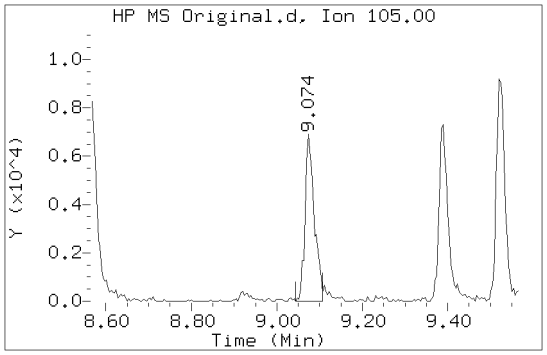



## 1,3,5-Trimethylbenzene (108-67-8)

Reason Code:

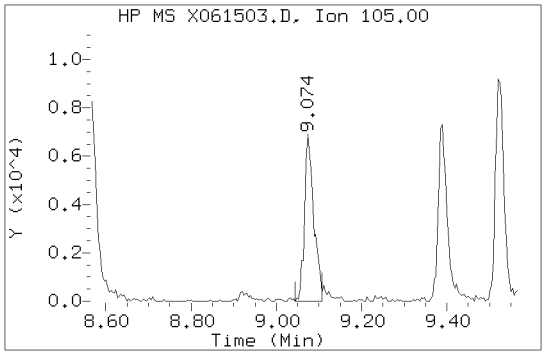
BEFORE

MASS
105
AREA
10589
HEIGHT
6918
20-Jun-2023
18:22
linh
pham



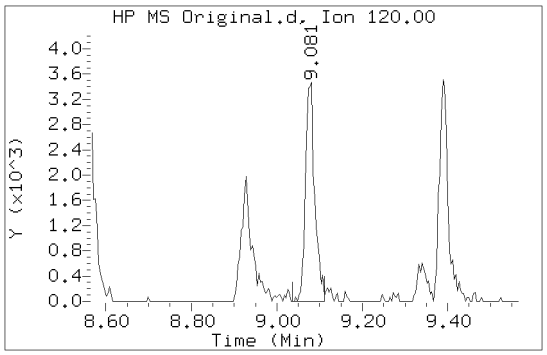

AFTER

MASS
105
AREA
10589
HEIGHT
6918
20-Jun-2023
18:22
linh
pham



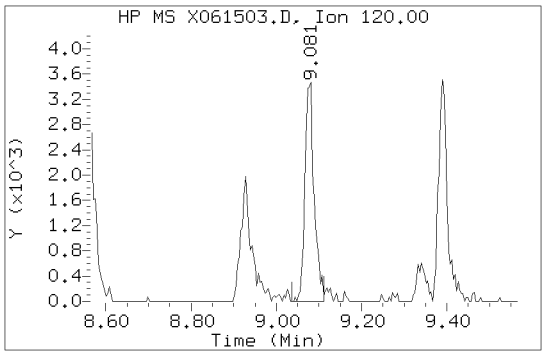

BEFORE

MASS
120
AREA
5301
HEIGHT
3469
20-Jun-2023
18:22
linh
pham




AFTER

MASS
120
AREA
5301
HEIGHT
3469
20-Jun-2023
18:22
linh
pham



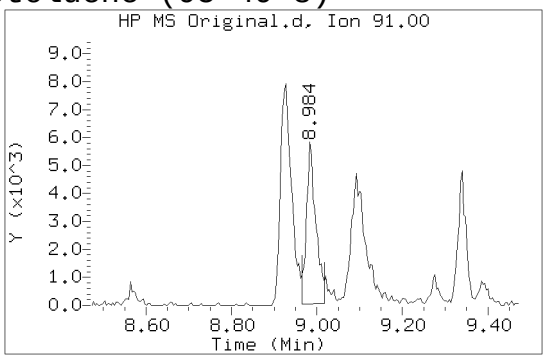
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## 2-Chlorotoluene (95-49-8)

Reason Code:

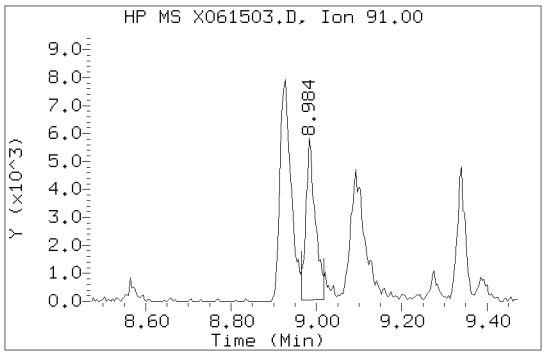
BEFORE

MASS
91
AREA
8949
HEIGHT
5784
20-Jun-2023
18:22
linh
pham



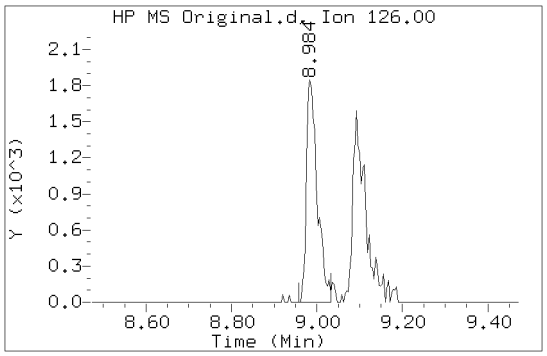

AFTER

MASS
91
AREA
8949
HEIGHT
5784
20-Jun-2023
18:22
linh
pham



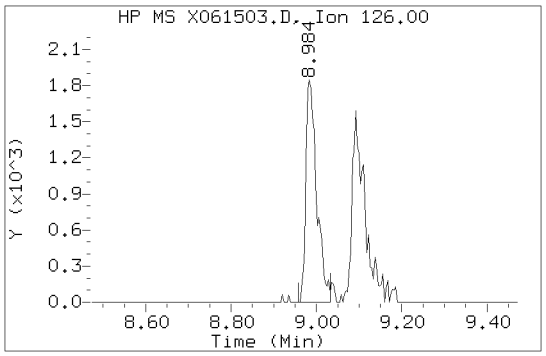

BEFORE

MASS
126
AREA
3287
HEIGHT
1848
20-Jun-2023
18:22
linh
pham




AFTER

MASS
126
AREA
3287
HEIGHT
1848
20-Jun-2023
18:22
linh
pham

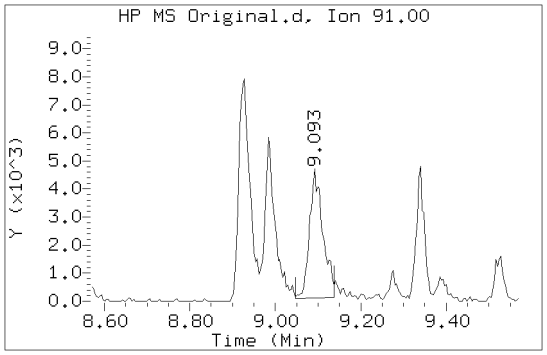



## 4-Chlorotoluene (106-43-4)

Reason Code:

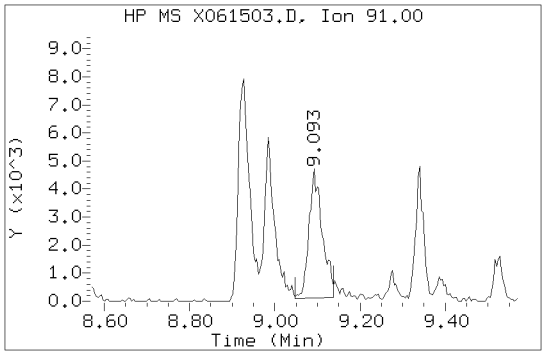
BEFORE

MASS
91
AREA
10012
HEIGHT
4610
20-Jun-2023
18:22
linh
pham



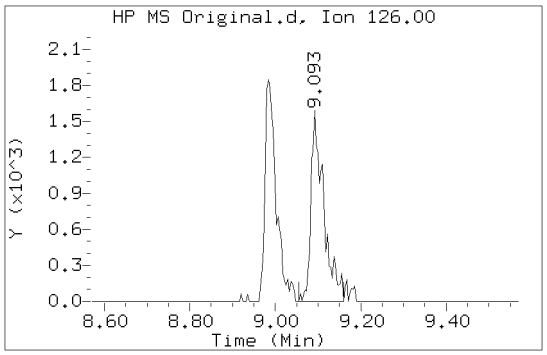

AFTER

MASS
91
AREA
10012
HEIGHT
4610
20-Jun-2023
18:22
linh
pham



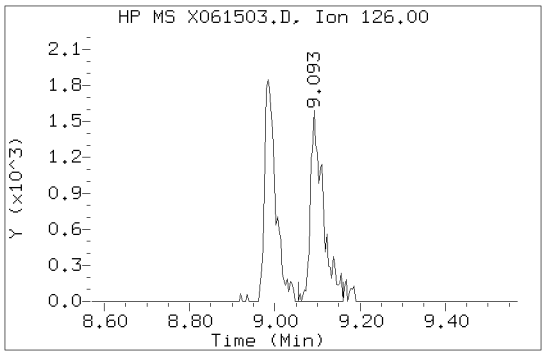

BEFORE

MASS
126
AREA
3291
HEIGHT
1590
20-Jun-2023
18:22
linh
pham




AFTER

MASS
126
AREA
3291
HEIGHT
1590
20-Jun-2023
18:22
linh
pham



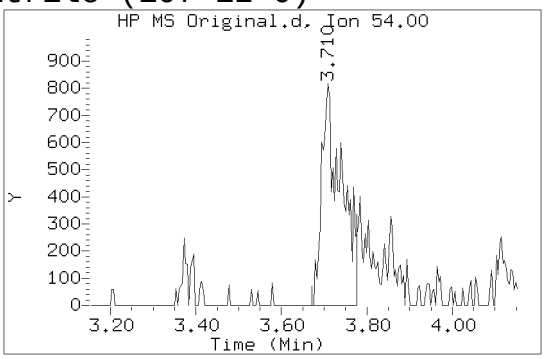
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## Propionitrile (107-12-0)

Reason Code:

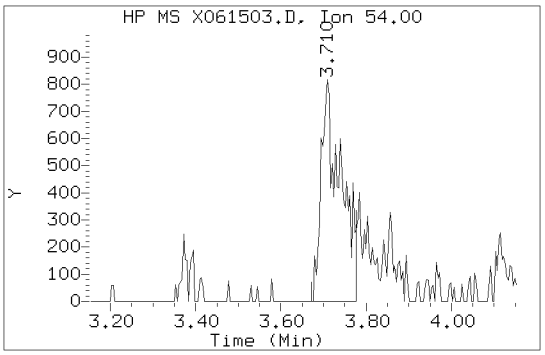
BEFORE

MASS
54
AREA
2622
HEIGHT
817
20-Jun-2023
18:22
linh
pham



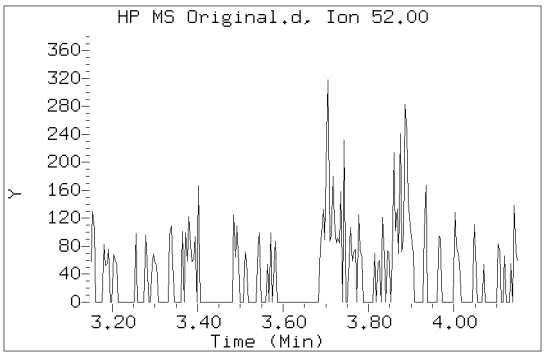

AFTER

MASS
54
AREA
2622
HEIGHT
817
20-Jun-2023
18:22
linh
pham



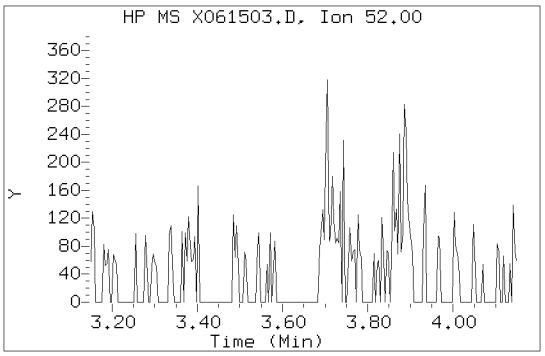

BEFORE

MASS
52
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



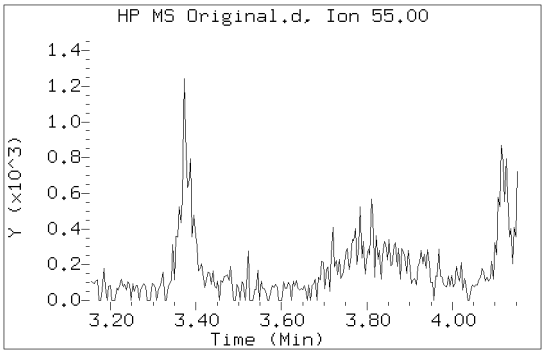

AFTER

MASS
52
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



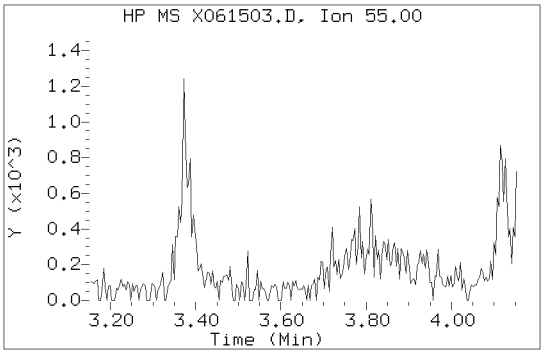

BEFORE

MASS
55
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER

MASS
55
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

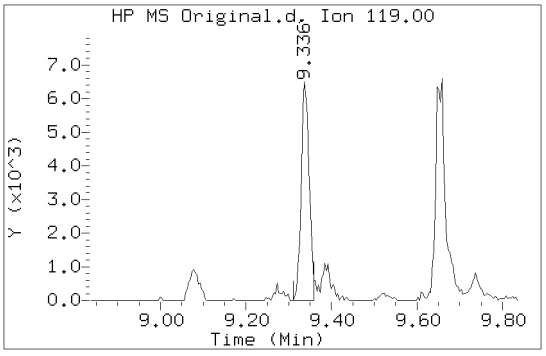



## tert-Butylbenzene (98-06-6)

Reason Code:

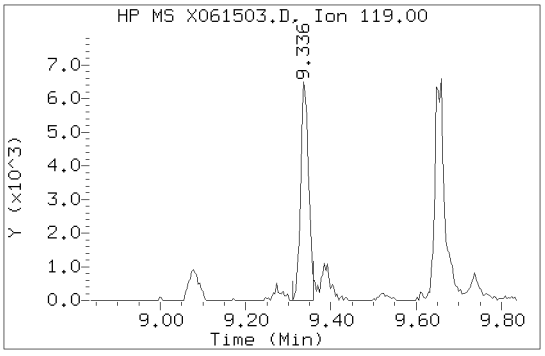
BEFORE

MASS
119
AREA
8719
HEIGHT
6495
20-Jun-2023
18:22
linh
pham




AFTER

MASS
119
AREA
8719
HEIGHT
6495
20-Jun-2023
18:22
linh
pham



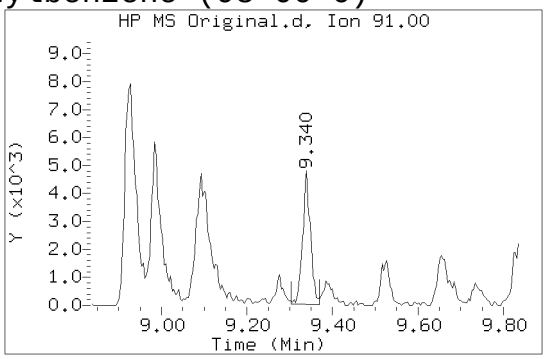
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## tert-Butylbenzene (98-06-6)

Reason Code:

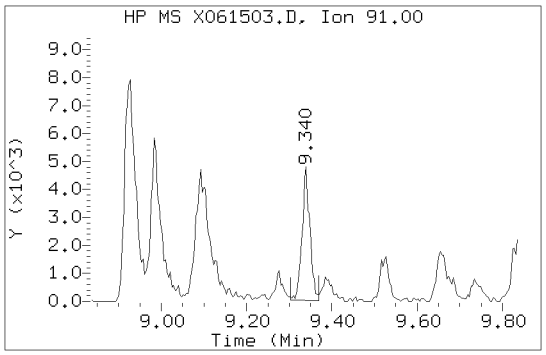
BEFORE

MASS
91
AREA
6264
HEIGHT
4775
20-Jun-2023
18:22
linh
pham



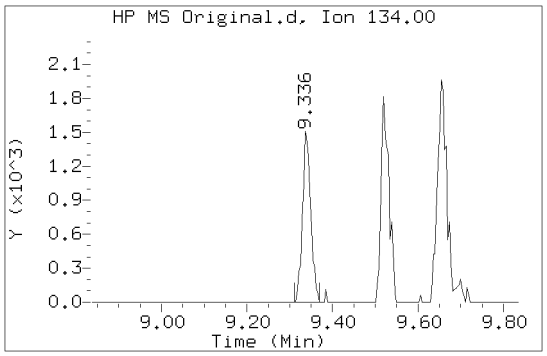

AFTER

MASS
91
AREA
6264
HEIGHT
4775
20-Jun-2023
18:22
linh
pham



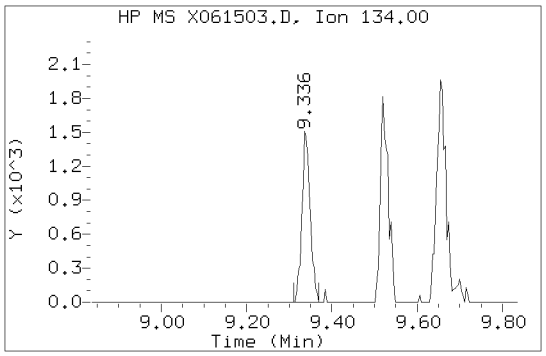

BEFORE

MASS
134
AREA
2080
HEIGHT
1511
20-Jun-2023
18:22
linh
pham




AFTER

MASS
134
AREA
2080
HEIGHT
1511
20-Jun-2023
18:22
linh
pham

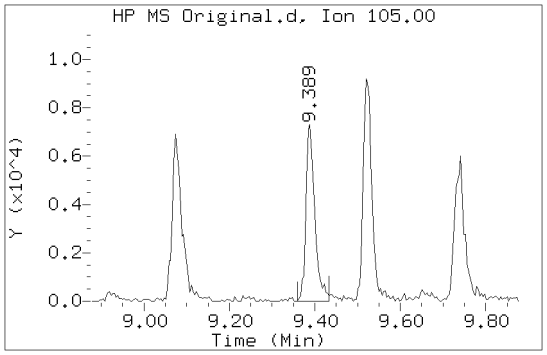



## 1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

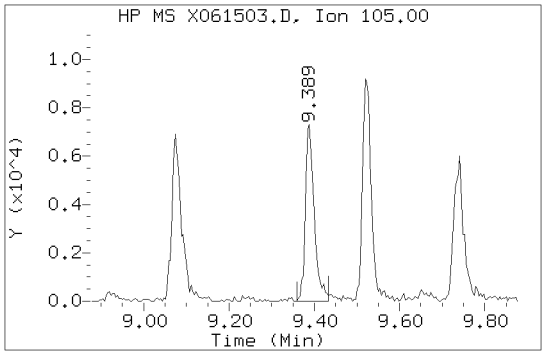
BEFORE

MASS
105
AREA
10657
HEIGHT
7321
20-Jun-2023
18:22
linh
pham



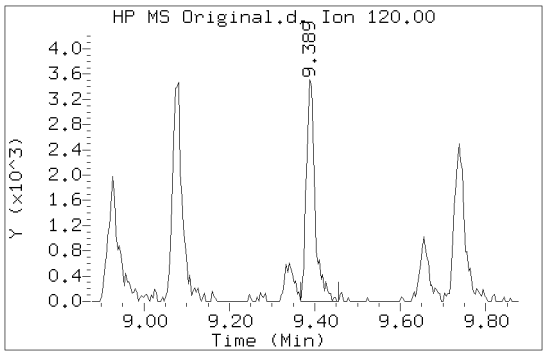

AFTER

MASS
105
AREA
10657
HEIGHT
7321
20-Jun-2023
18:22
linh
pham



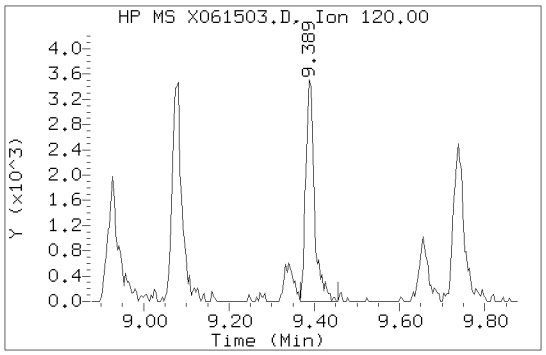

BEFORE

MASS
120
AREA
5063
HEIGHT
3511
20-Jun-2023
18:22
linh
pham




AFTER

MASS
120
AREA
5063
HEIGHT
3511
20-Jun-2023
18:22
linh
pham

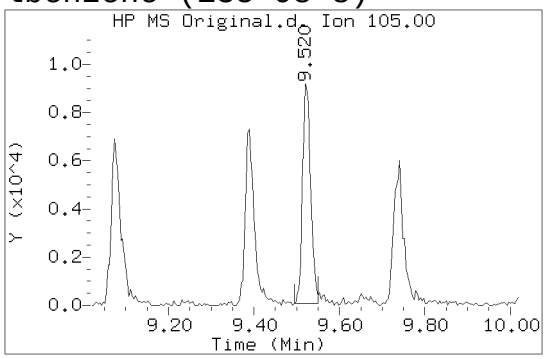


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## sec-Butylbenzene (135-98-8)

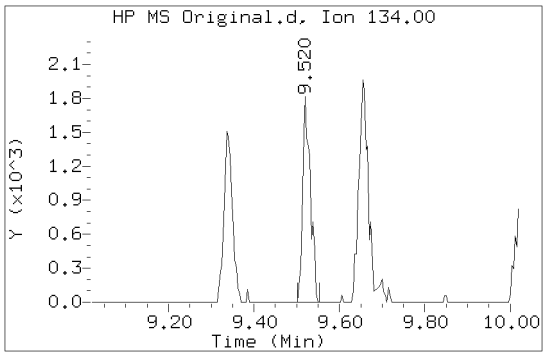
**BEFORE**

MASS
105
AREA
12512
HEIGHT
9130
20-Jun-2023
18:22
linh
pham




**BEFORE**

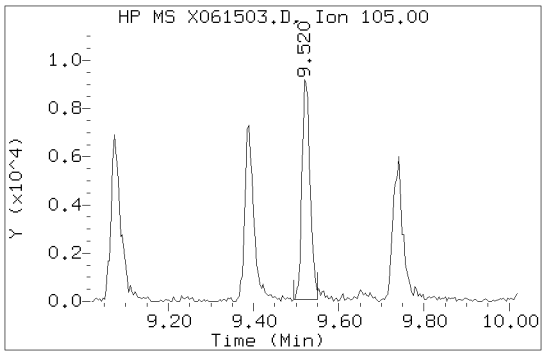
MASS
134
AREA
2345
HEIGHT
1816
20-Jun-2023
18:22
linh
pham




**Reason Code:**

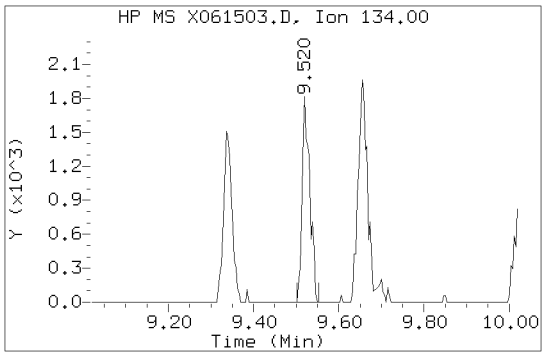
**AFTER**

MASS
105
AREA
12512
HEIGHT
9130
20-Jun-2023
18:22
linh
pham




**AFTER**

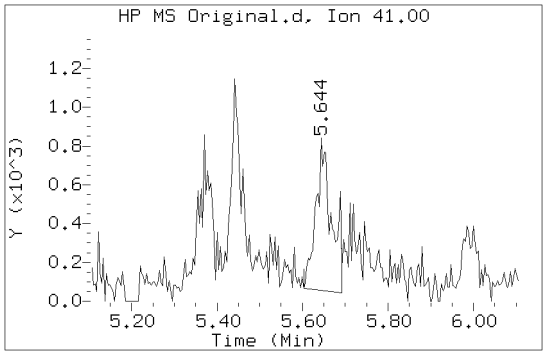
MASS
134
AREA
2345
HEIGHT
1816
20-Jun-2023
18:22
linh
pham




## Methyl Methacrylate (80-62-6)

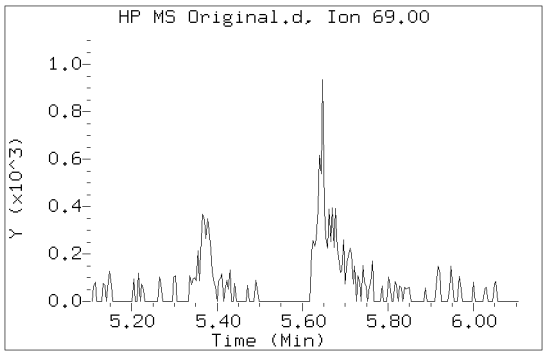
**BEFORE**

MASS
41
AREA
1972
HEIGHT
785
20-Jun-2023
18:22
linh
pham




**BEFORE**

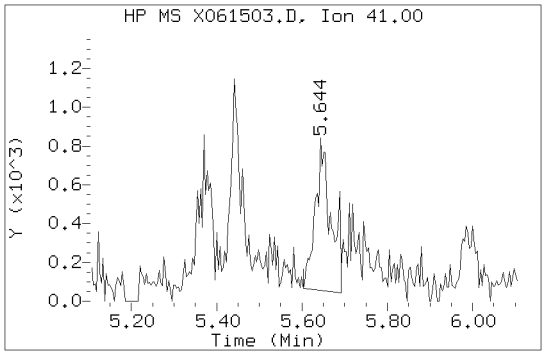
MASS
69
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




**Reason Code:**

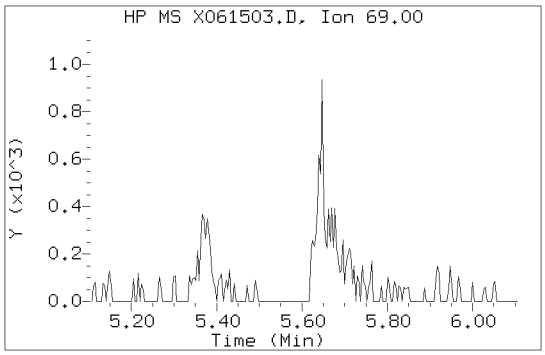
**AFTER**

MASS
41
AREA
1972
HEIGHT
785
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
69
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

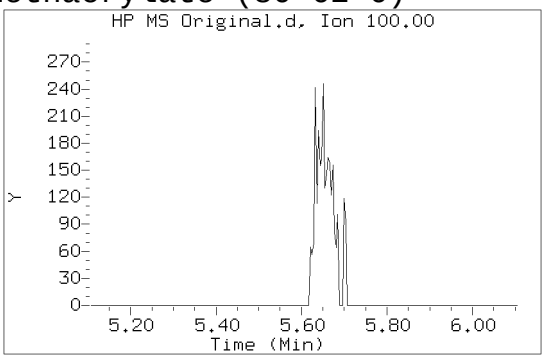


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

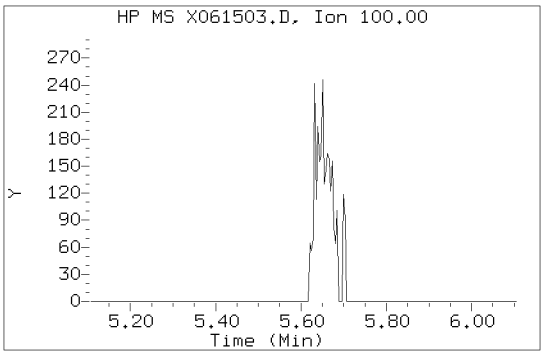
## Methyl Methacrylate (80-62-6)

Reason Code:

BEFORE
MASS
100
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



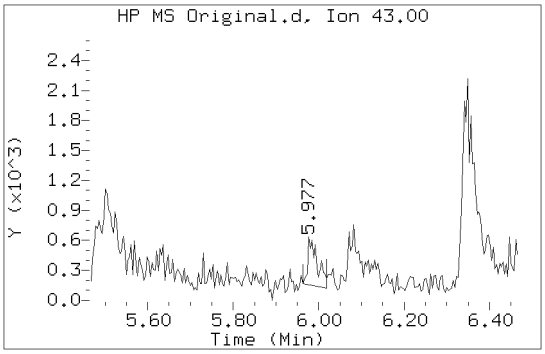

AFTER
MASS
100
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



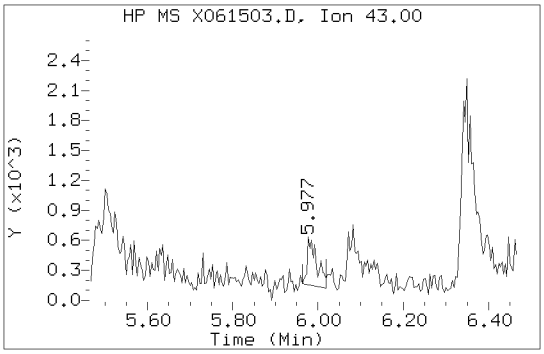

## 2-Nitropropane (79-46-9)

Reason Code:

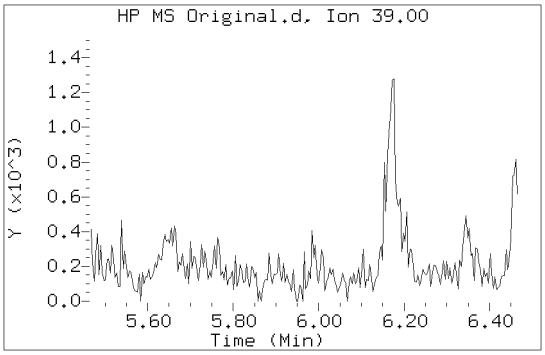
BEFORE
MASS
43
AREA
747
HEIGHT
478
20-Jun-2023
18:22
linh
pham



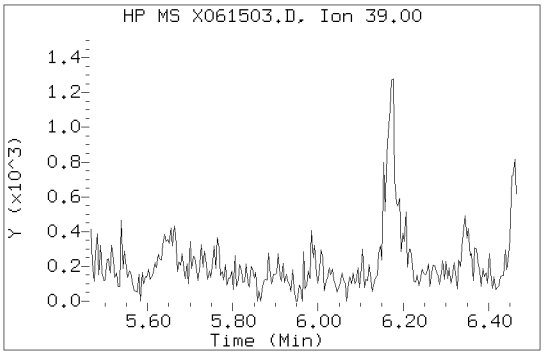

AFTER
MASS
43
AREA
747
HEIGHT
478
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
39
AREA
1700
HEIGHT
750
20-Jun-2023
18:22
linh
pham



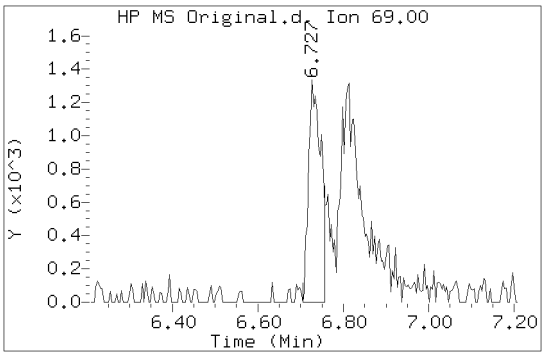

AFTER
MASS
39
AREA
1700
HEIGHT
750
20-Jun-2023
18:22
linh
pham



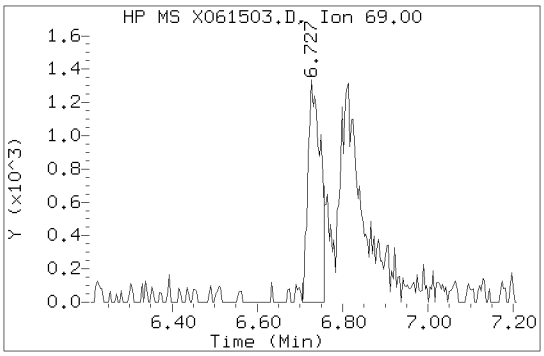

## Ethyl Methacrylate (97-63-2)

Reason Code:

BEFORE
MASS
69
AREA
2688
HEIGHT
1335
20-Jun-2023
18:22
linh
pham




AFTER
MASS
69
AREA
2688
HEIGHT
1335
20-Jun-2023
18:22
linh
pham



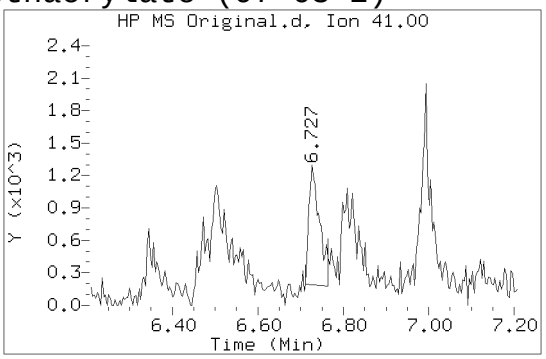
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## Ethyl Methacrylate (97-63-2)

Reason Code:

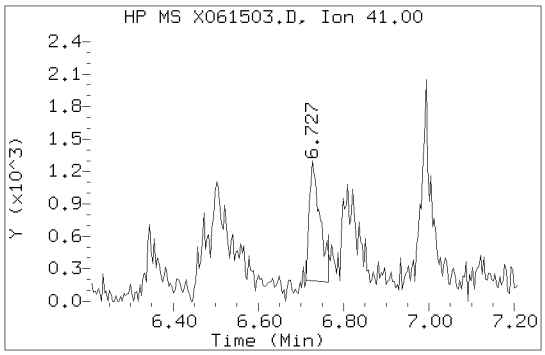
BEFORE

MASS
41
AREA
1926
HEIGHT
1109
20-Jun-2023
18:22
linh
pham




AFTER

MASS
41
AREA
1926
HEIGHT
1109
20-Jun-2023
18:22
linh
pham

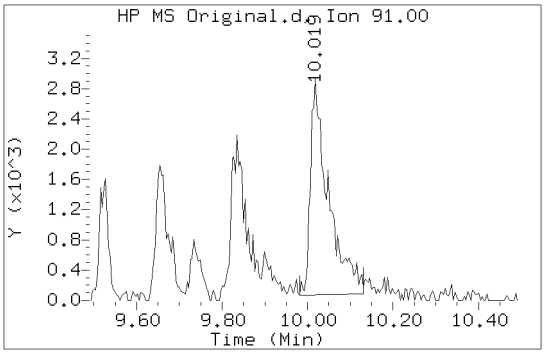



## n-Butylbenzene (104-51-8)

Reason Code:

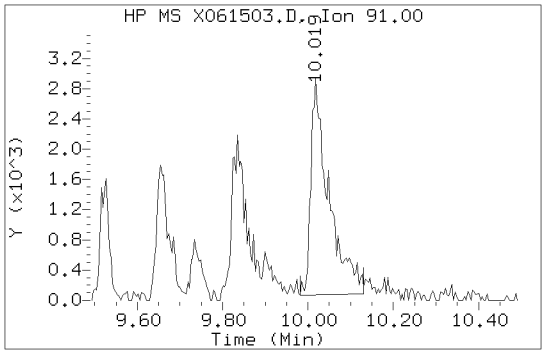
BEFORE

MASS
91
AREA
8377
HEIGHT
2859
20-Jun-2023
18:22
linh
pham



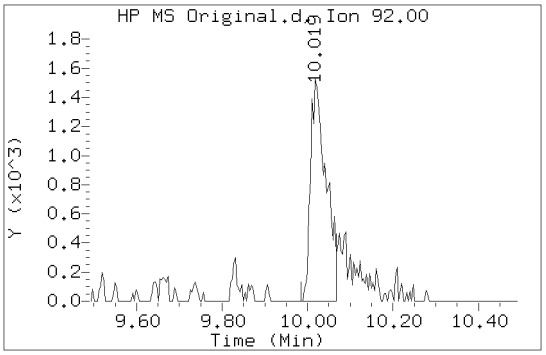

AFTER

MASS
91
AREA
8377
HEIGHT
2859
20-Jun-2023
18:22
linh
pham



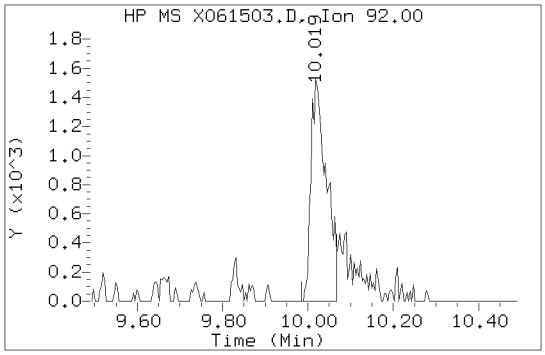

BEFORE

MASS
92
AREA
3858
HEIGHT
1527
20-Jun-2023
18:22
linh
pham



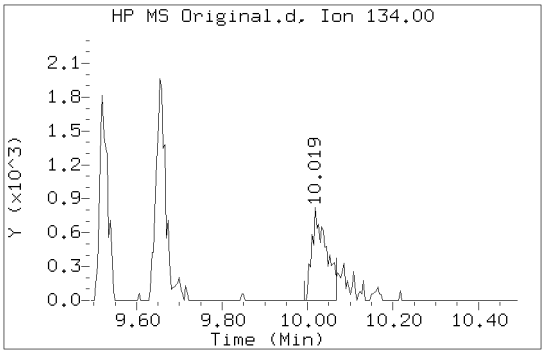

AFTER

MASS
92
AREA
3858
HEIGHT
1527
20-Jun-2023
18:22
linh
pham



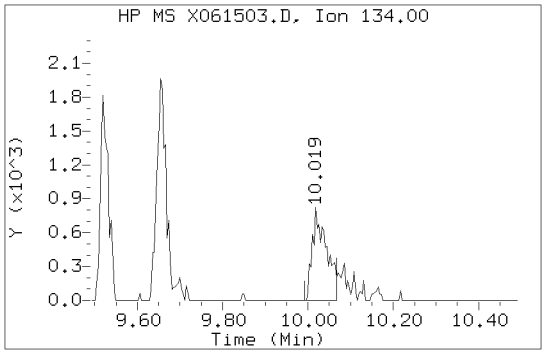

BEFORE

MASS
134
AREA
1911
HEIGHT
821
20-Jun-2023
18:22
linh
pham




AFTER

MASS
134
AREA
1911
HEIGHT
821
20-Jun-2023
18:22
linh
pham

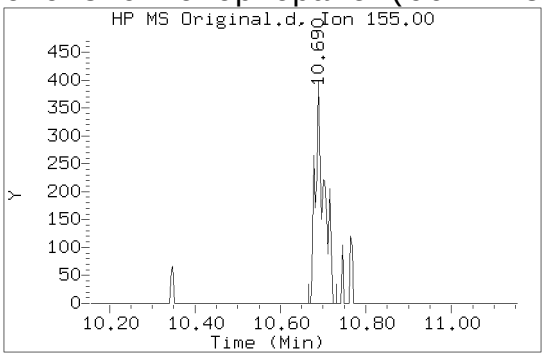


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Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

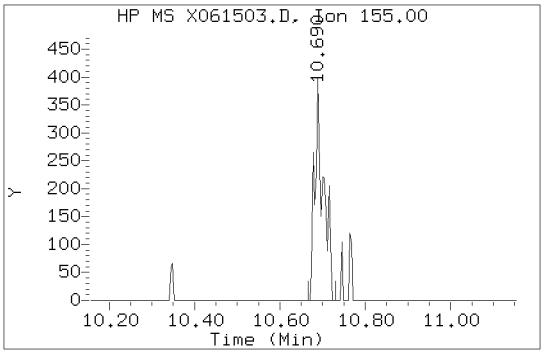
## 1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

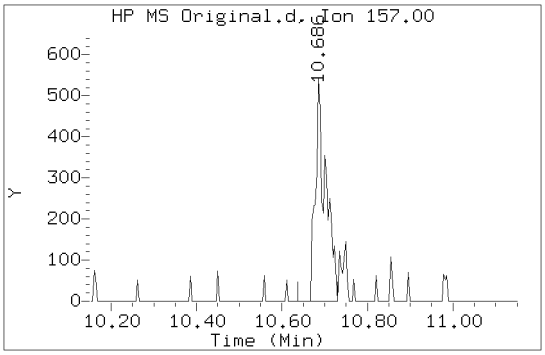
BEFORE
MASS
155
AREA
562
HEIGHT
397
20-Jun-2023
18:22
linh
pham



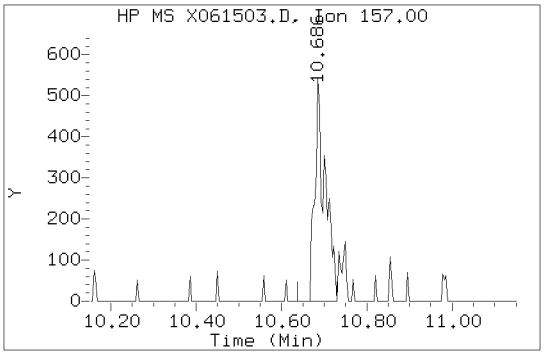

AFTER
MASS
155
AREA
562
HEIGHT
397
20-Jun-2023
18:22
linh
pham



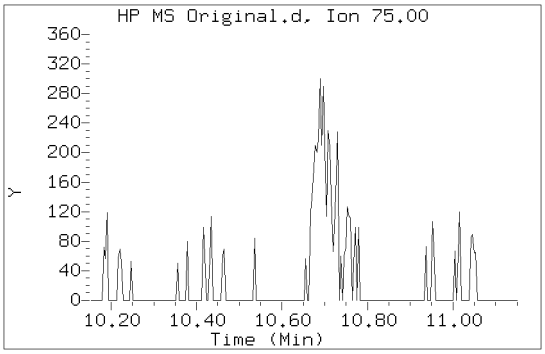

BEFORE
MASS
157
AREA
909
HEIGHT
541
20-Jun-2023
18:22
linh
pham



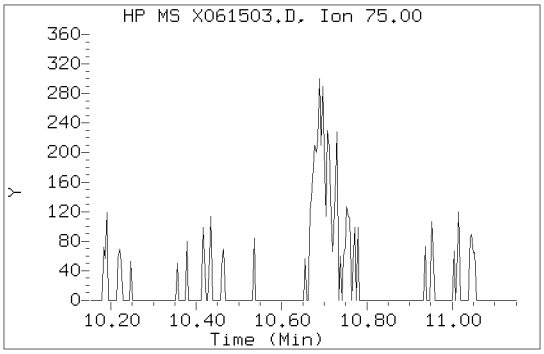

AFTER
MASS
157
AREA
909
HEIGHT
541
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
75
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



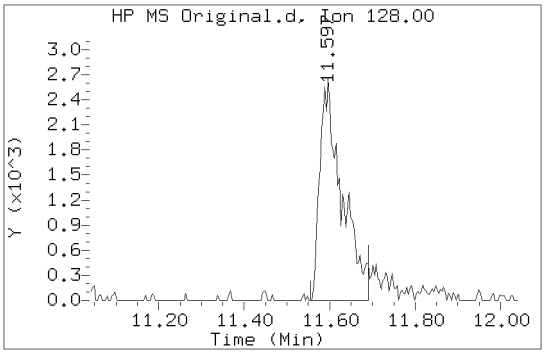

AFTER
MASS
75
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



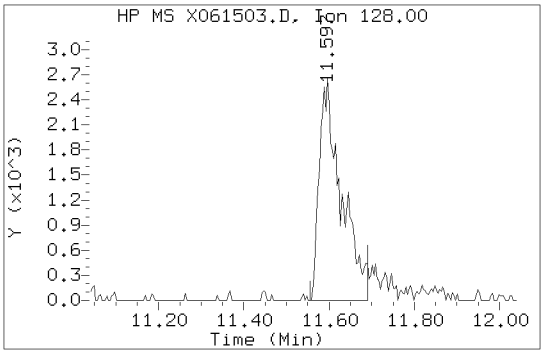

## Naphthalene (91-20-3)

Reason Code:

BEFORE
MASS
128
AREA
9500
HEIGHT
2653
20-Jun-2023
18:22
linh
pham




AFTER
MASS
128
AREA
9500
HEIGHT
2653
20-Jun-2023
18:22
linh
pham

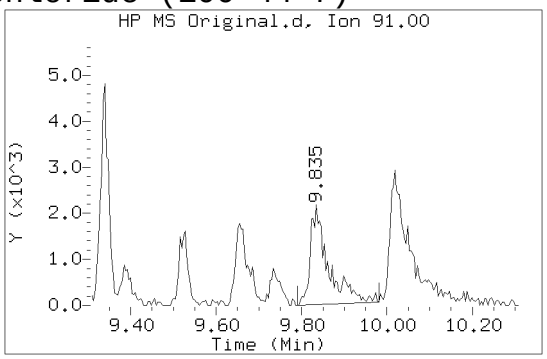


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

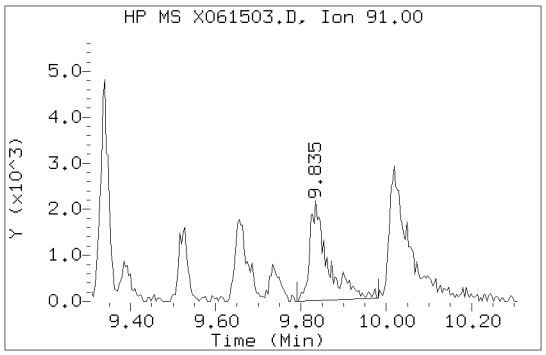
## Benzyl Chloride (100-44-7)

Reason Code:

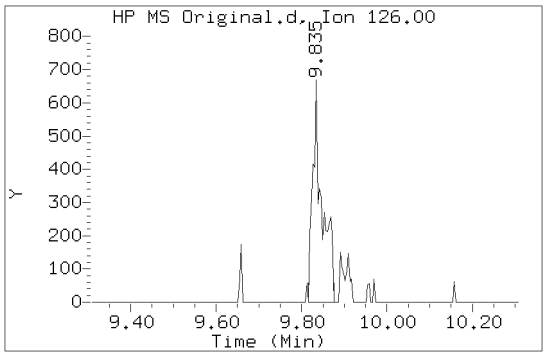
BEFORE
MASS
91
AREA
6300
HEIGHT
2173
20-Jun-2023
18:22
linh
pham



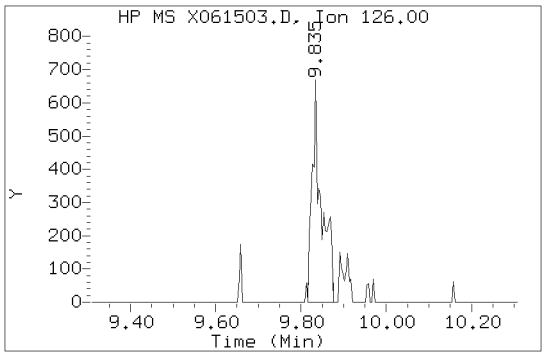

AFTER
MASS
91
AREA
6300
HEIGHT
2173
20-Jun-2023
18:22
linh
pham



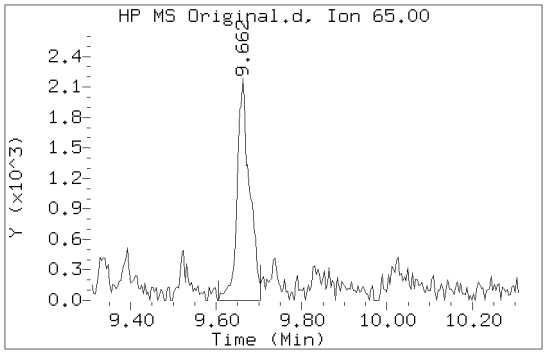

BEFORE
MASS
126
AREA
1021
HEIGHT
669
20-Jun-2023
18:22
linh
pham



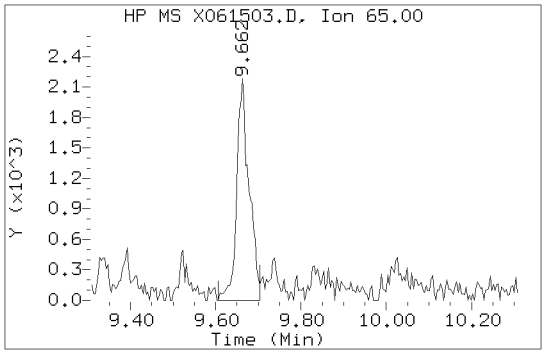

AFTER
MASS
126
AREA
1021
HEIGHT
669
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
65
AREA
4393
HEIGHT
2182
20-Jun-2023
18:22
linh
pham



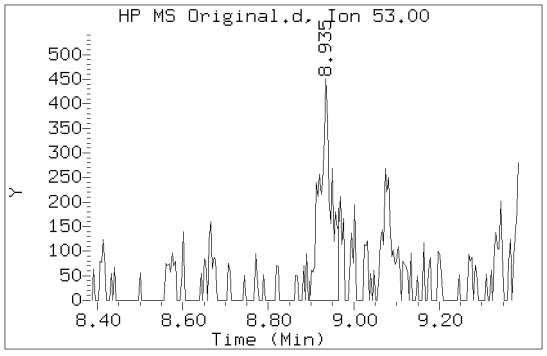

AFTER
MASS
65
AREA
4393
HEIGHT
2182
20-Jun-2023
18:22
linh
pham



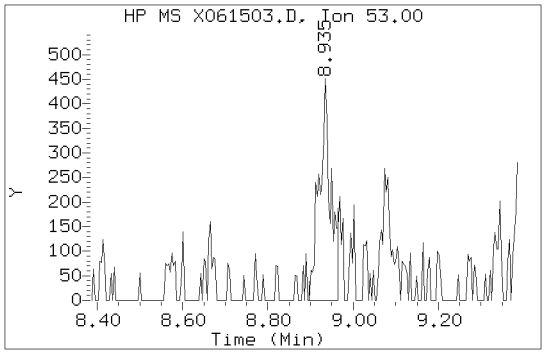

## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

BEFORE
MASS
53
AREA
838
HEIGHT
451
20-Jun-2023
18:22
linh
pham




AFTER
MASS
53
AREA
838
HEIGHT
451
20-Jun-2023
18:22
linh
pham



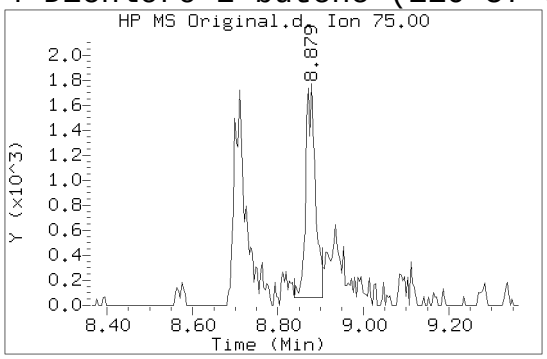
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

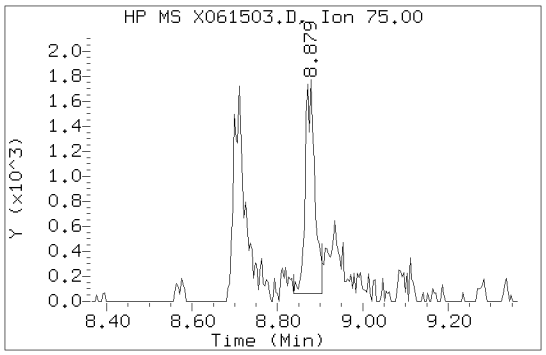
**BEFORE**

MASS
75
AREA
2689
HEIGHT
1711
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
75
AREA
2689
HEIGHT
1711
20-Jun-2023
18:22
linh
pham

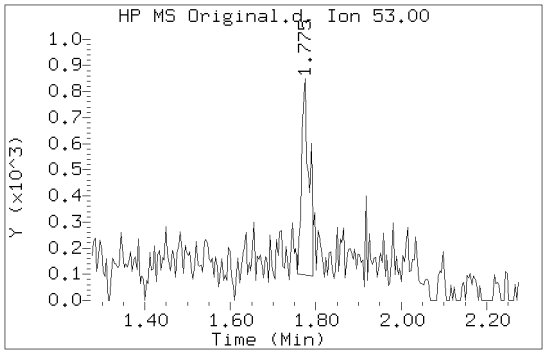



## Chloroprene (126-99-8)

Reason Code:

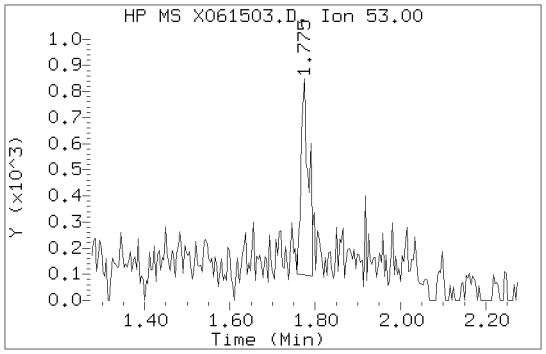
**BEFORE**

MASS
53
AREA
937
HEIGHT
752
20-Jun-2023
18:22
linh
pham



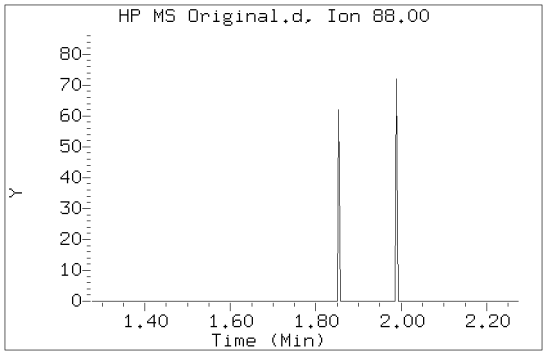

**AFTER**

MASS
53
AREA
937
HEIGHT
752
20-Jun-2023
18:22
linh
pham



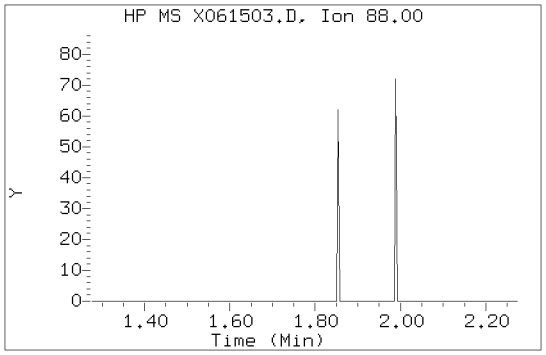

**BEFORE**

MASS
88
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
88
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

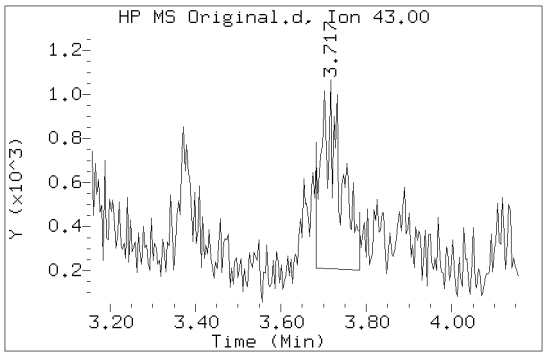



## Ethyl Acetate (141-78-6)

Reason Code:

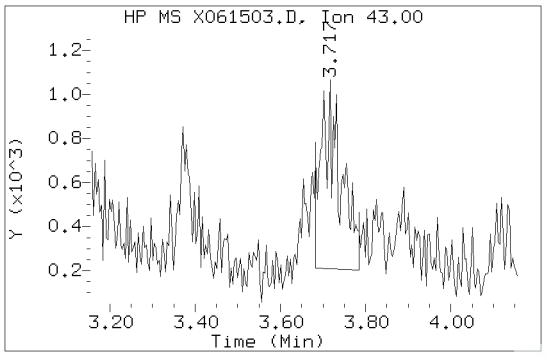
**BEFORE**

MASS
43
AREA
2678
HEIGHT
857
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
43
AREA
2678
HEIGHT
857
20-Jun-2023
18:22
linh
pham

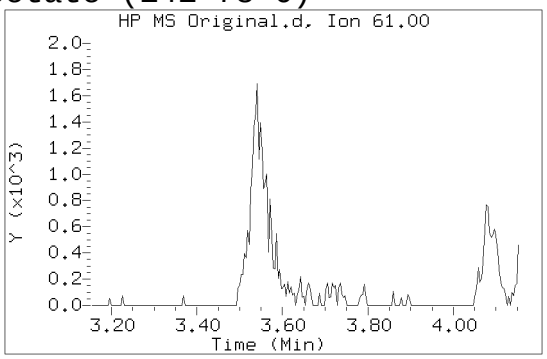


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

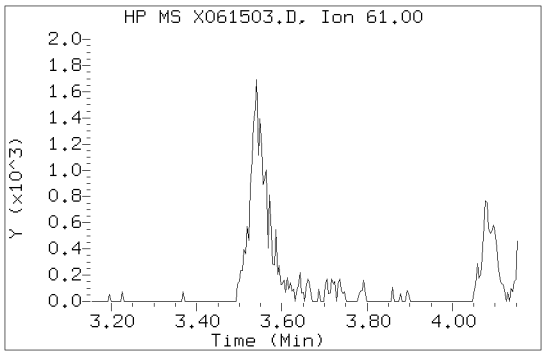
## Ethyl Acetate (141-78-6)

Reason Code:

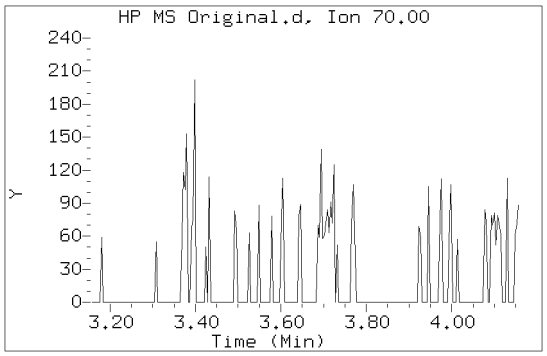
BEFORE
MASS
61
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



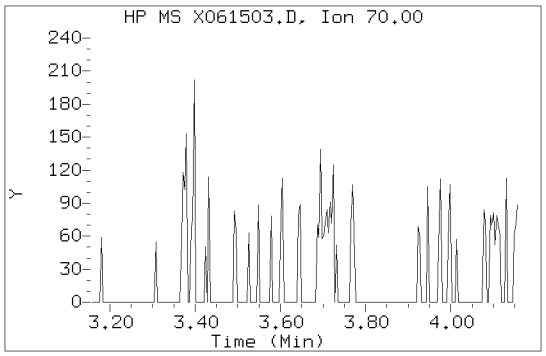

AFTER
MASS
61
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
70
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



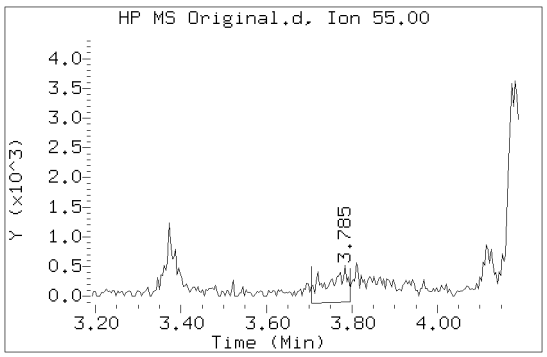

AFTER
MASS
70
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



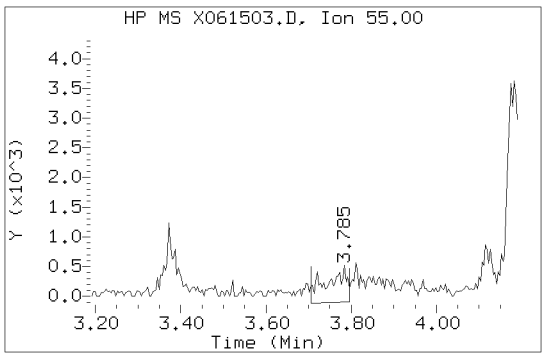

## Methyl Acrylate (96-33-3)

Reason Code:

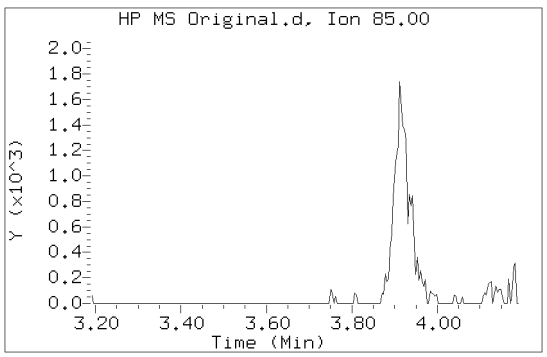
BEFORE
MASS
55
AREA
1944
HEIGHT
618
20-Jun-2023
18:22
linh
pham



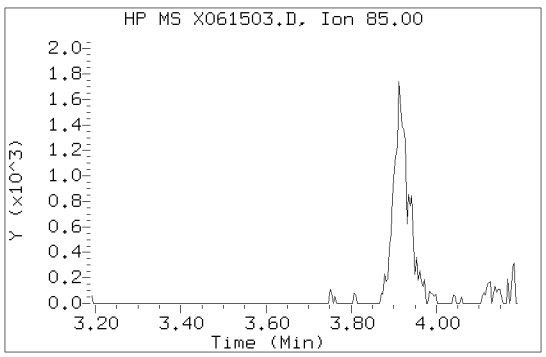

AFTER
MASS
55
AREA
1944
HEIGHT
618
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
85
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER
MASS
85
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

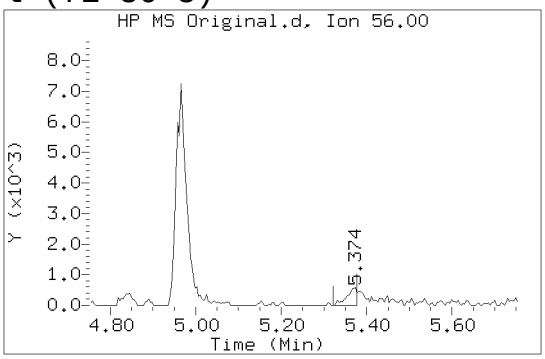


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

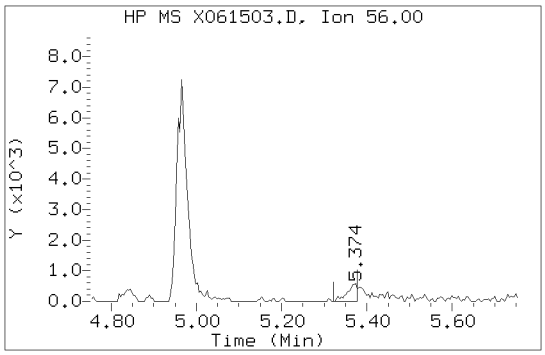
## n-Butanol (71-36-3)

Reason Code:

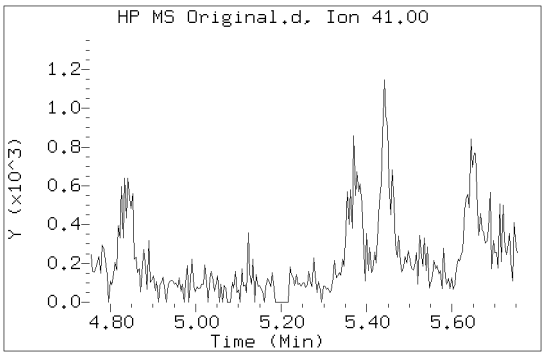
BEFORE
MASS
56
AREA
934
HEIGHT
597
20-Jun-2023
18:22
linh
pham



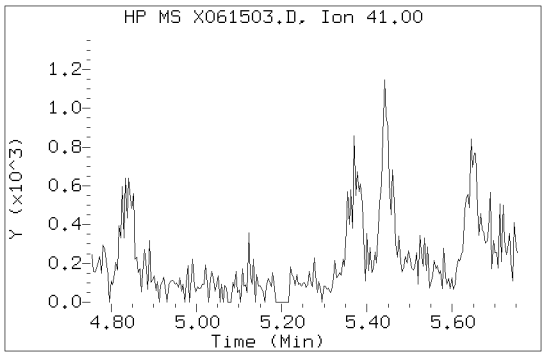

AFTER
MASS
56
AREA
934
HEIGHT
597
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



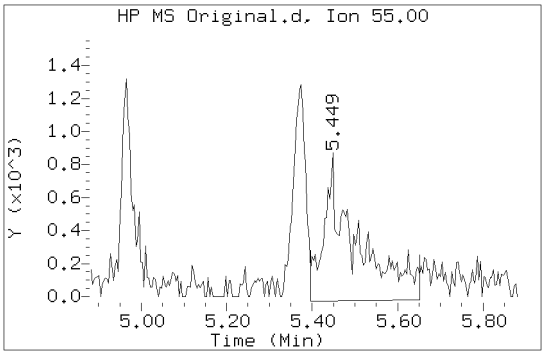

AFTER
MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



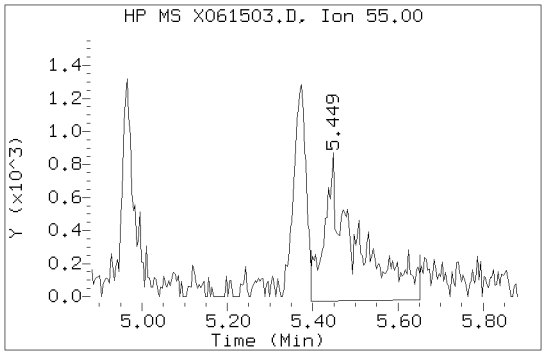

## Ethyl Acrylate (140-88-5)

Reason Code:

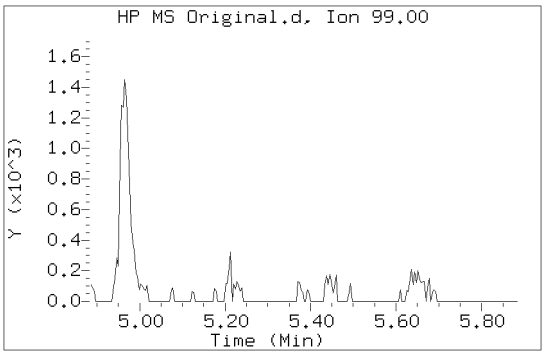
BEFORE
MASS
55
AREA
4696
HEIGHT
895
20-Jun-2023
18:22
linh
pham



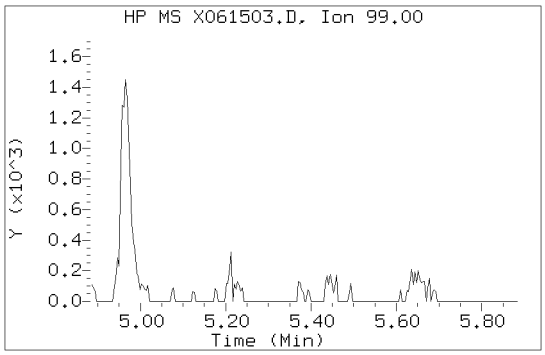

AFTER
MASS
55
AREA
4696
HEIGHT
895
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
99
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER
MASS
99
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

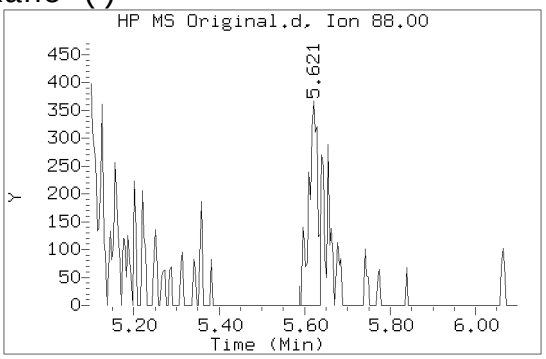


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

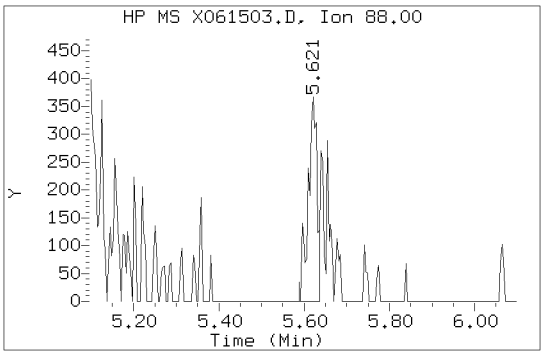
## 1,4-Dioxane ()

Reason Code:

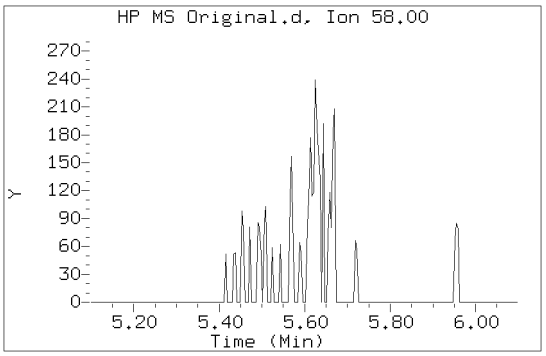
BEFORE
MASS
88
AREA
539
HEIGHT
367
20-Jun-2023
18:22
linh
pham



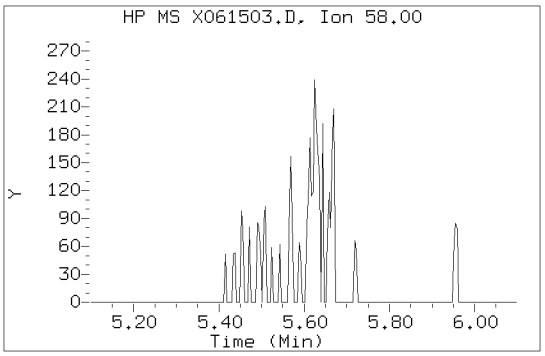

AFTER
MASS
88
AREA
539
HEIGHT
367
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
58
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



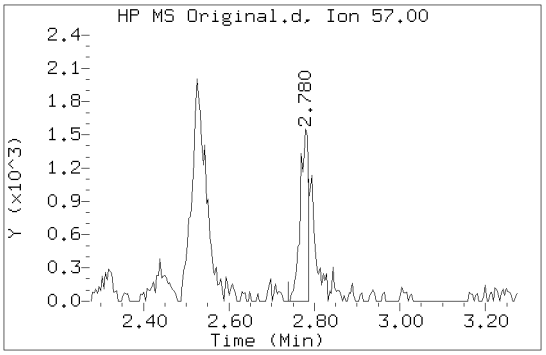

AFTER
MASS
58
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



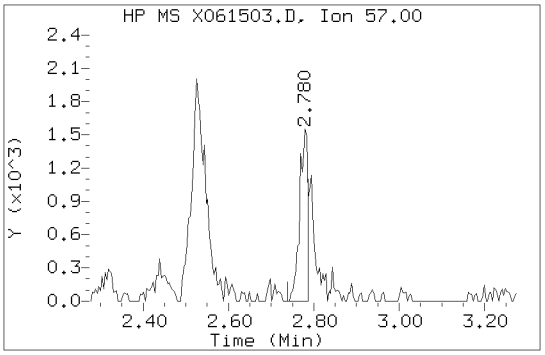

## n-Hexane (110-54-3)

Reason Code:

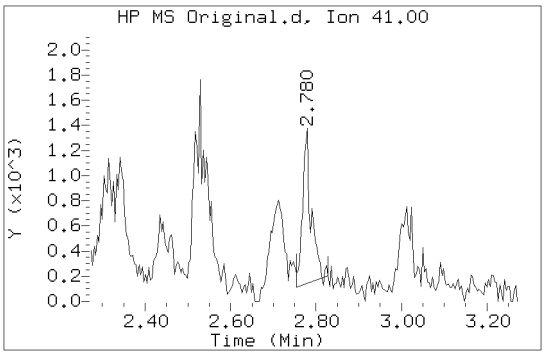
BEFORE
MASS
57
AREA
2120
HEIGHT
1552
20-Jun-2023
18:22
linh
pham



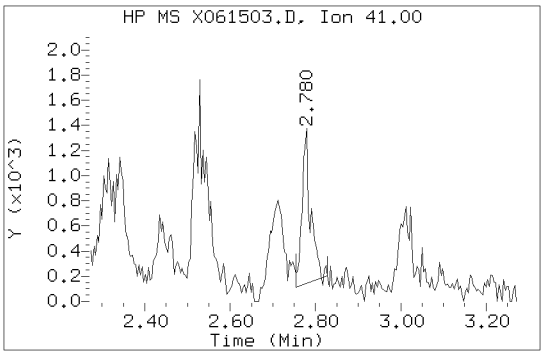

AFTER
MASS
57
AREA
2120
HEIGHT
1552
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
41
AREA
1753
HEIGHT
1232
20-Jun-2023
18:22
linh
pham




AFTER
MASS
41
AREA
1753
HEIGHT
1232
20-Jun-2023
18:22
linh
pham



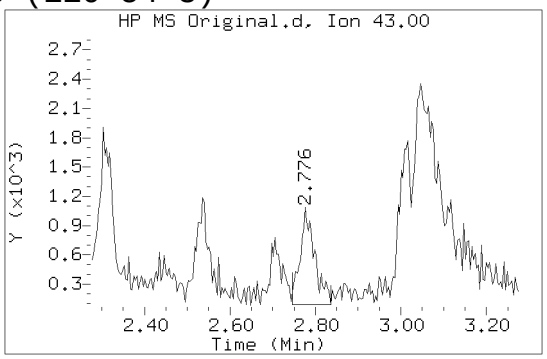
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## n-Hexane (110-54-3)

Reason Code:

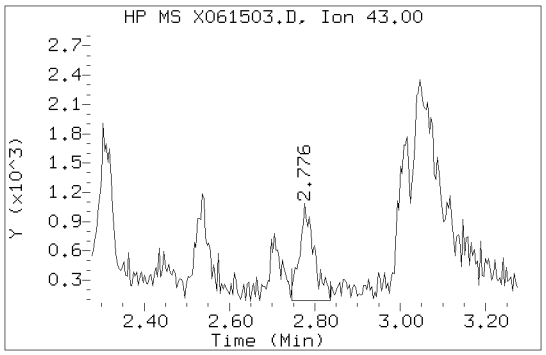
**BEFORE**

MASS
43
AREA
2389
HEIGHT
995
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
43
AREA
2389
HEIGHT
995
20-Jun-2023
18:22
linh
pham

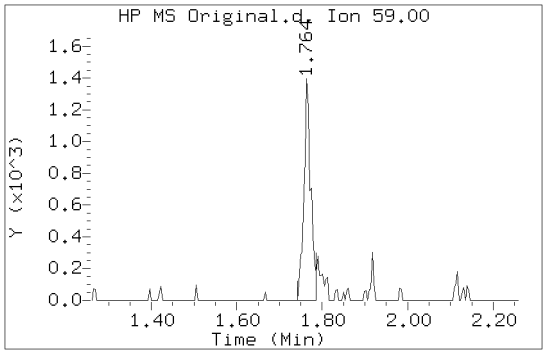



## Diethyl ether (60-29-7)

Reason Code:

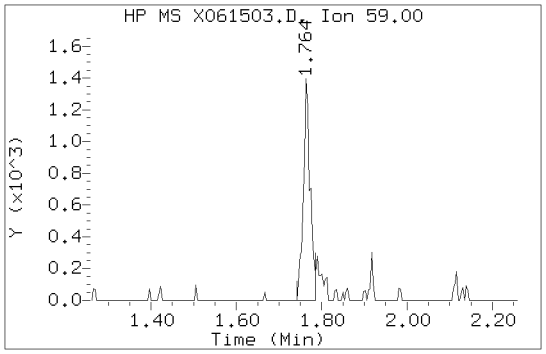
**BEFORE**

MASS
59
AREA
1591
HEIGHT
1396
20-Jun-2023
18:22
linh
pham



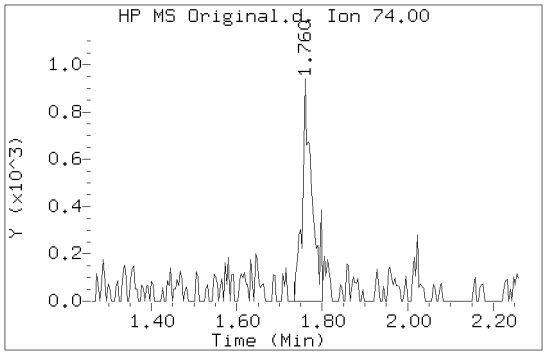

**AFTER**

MASS
59
AREA
1591
HEIGHT
1396
20-Jun-2023
18:22
linh
pham



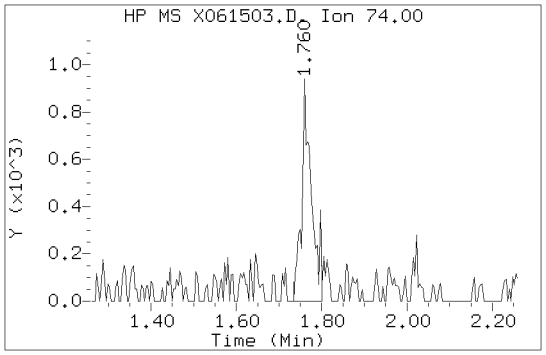

**BEFORE**

MASS
74
AREA
1526
HEIGHT
940
20-Jun-2023
18:22
linh
pham



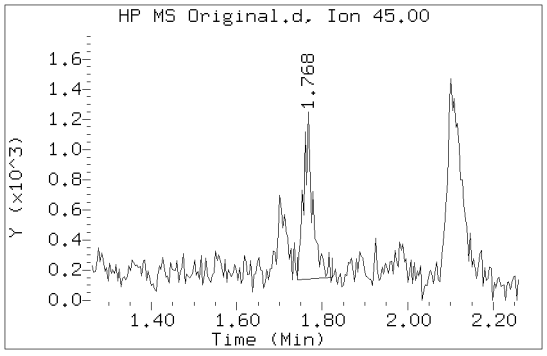

**AFTER**

MASS
74
AREA
1526
HEIGHT
940
20-Jun-2023
18:22
linh
pham



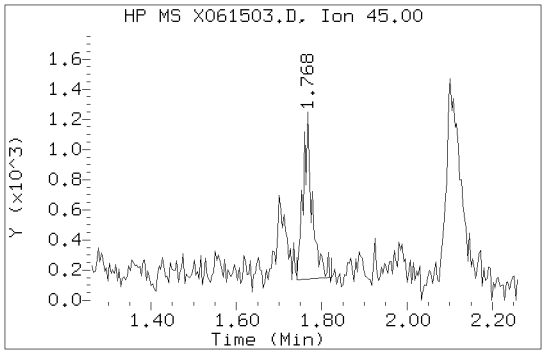

**BEFORE**

MASS
45
AREA
1636
HEIGHT
1108
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
45
AREA
1636
HEIGHT
1108
20-Jun-2023
18:22
linh
pham

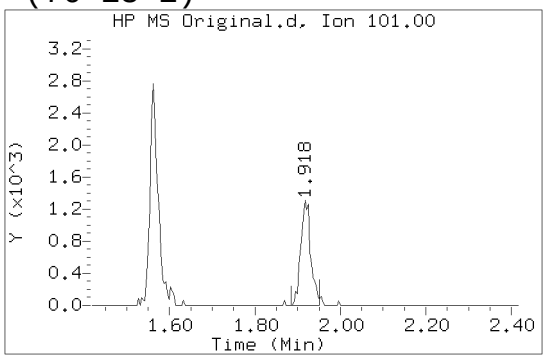


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Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

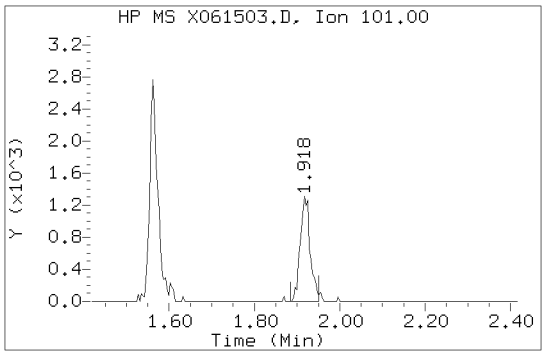
## Freon TF (76-13-1)

Reason Code:

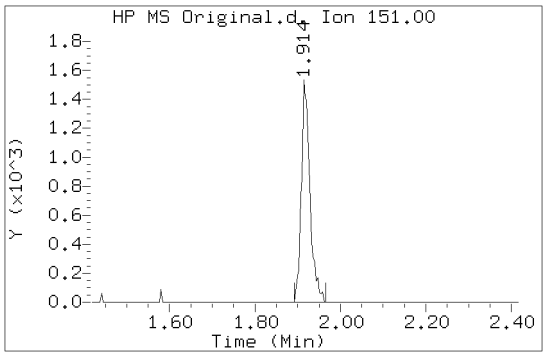
BEFORE
MASS
101
AREA
2188
HEIGHT
1312
20-Jun-2023
18:22
linh
pham



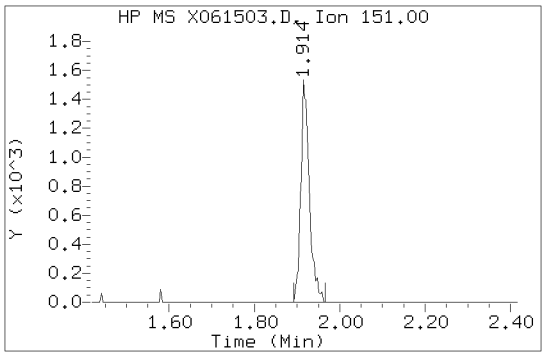

AFTER
MASS
101
AREA
2188
HEIGHT
1312
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
151
AREA
2200
HEIGHT
1534
20-Jun-2023
18:22
linh
pham



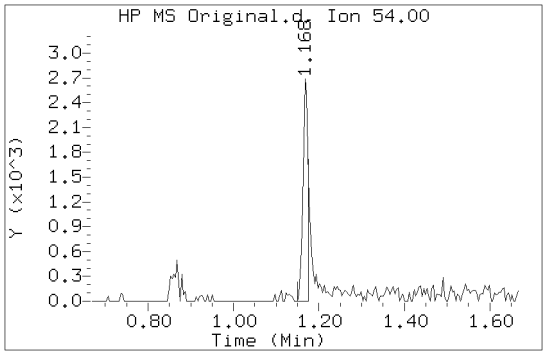

AFTER
MASS
151
AREA
2200
HEIGHT
1534
20-Jun-2023
18:22
linh
pham



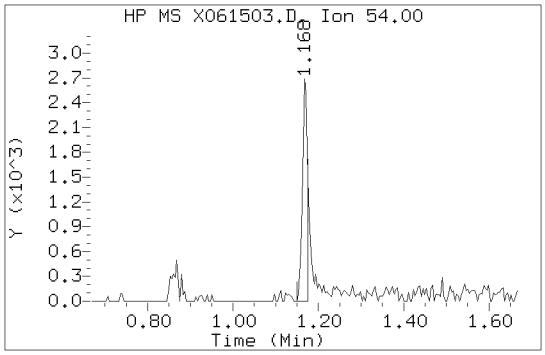

## 1,3-Butadiene (106-99-0)

Reason Code:

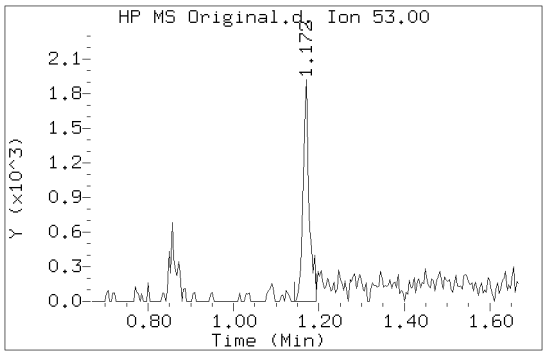
BEFORE
MASS
54
AREA
2248
HEIGHT
2688
20-Jun-2023
18:22
linh
pham



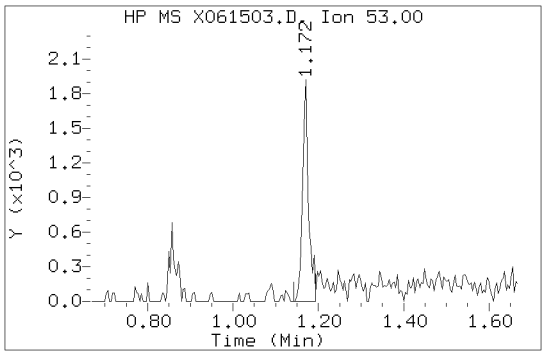

AFTER
MASS
54
AREA
2248
HEIGHT
2688
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
53
AREA
1960
HEIGHT
1923
20-Jun-2023
18:22
linh
pham




AFTER
MASS
53
AREA
1960
HEIGHT
1923
20-Jun-2023
18:22
linh
pham

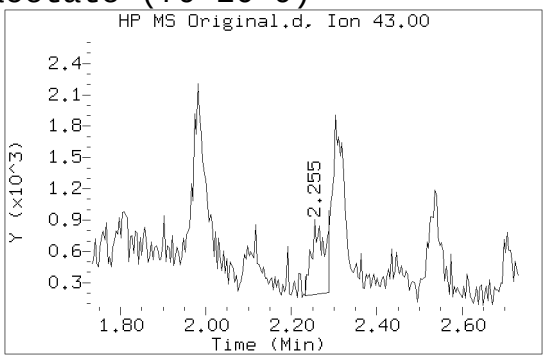


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

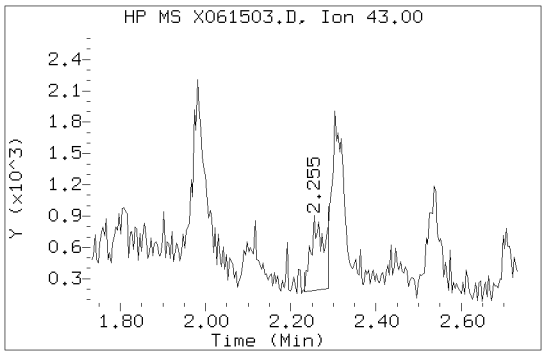
## Methyl acetate (79-20-9)

Reason Code:

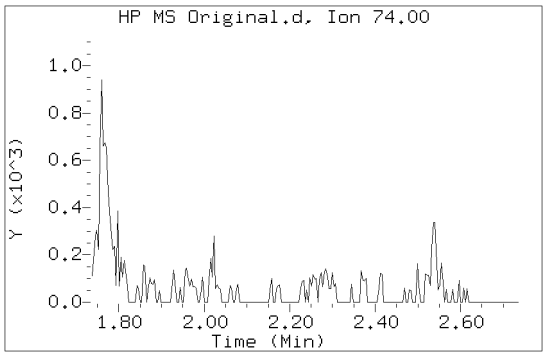
BEFORE
MASS
43
AREA
1514
HEIGHT
716
20-Jun-2023
18:22
linh
pham



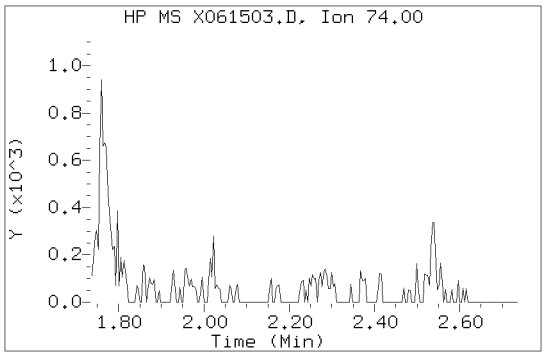

AFTER
MASS
43
AREA
1514
HEIGHT
716
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
74
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



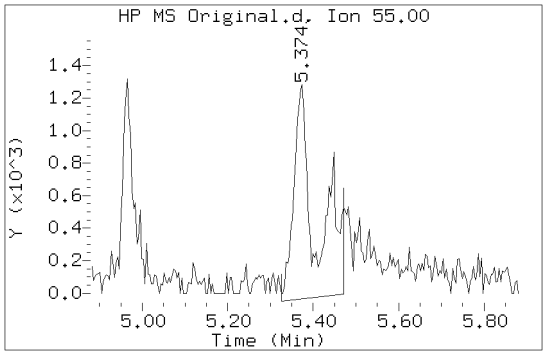

AFTER
MASS
74
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



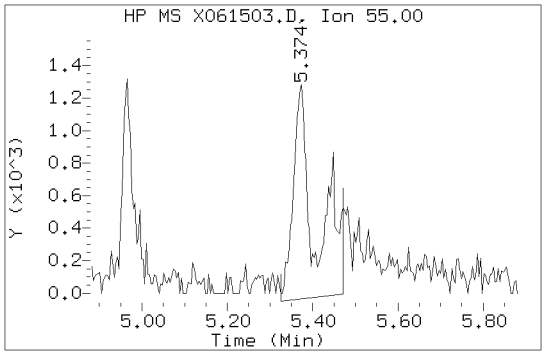

## Methylcyclohexane (108-87-2)

Reason Code:

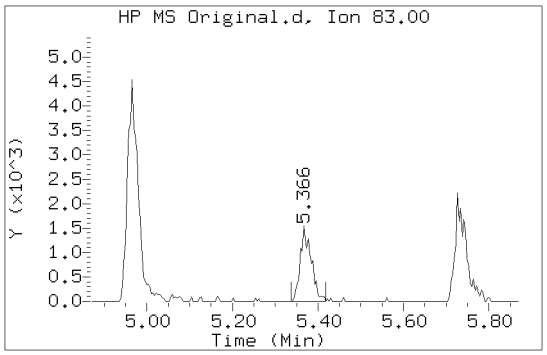
BEFORE
MASS
55
AREA
4698
HEIGHT
1316
20-Jun-2023
18:22
linh
pham



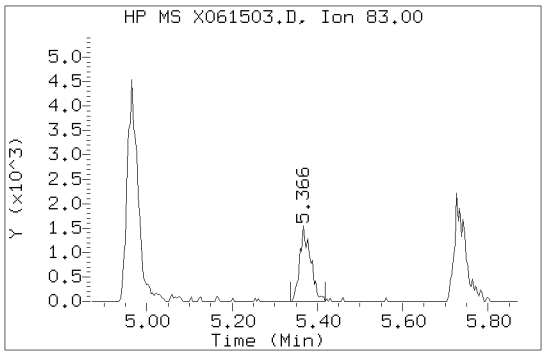

AFTER
MASS
55
AREA
4698
HEIGHT
1316
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
83
AREA
2765
HEIGHT
1543
20-Jun-2023
18:22
linh
pham




AFTER
MASS
83
AREA
2765
HEIGHT
1543
20-Jun-2023
18:22
linh
pham

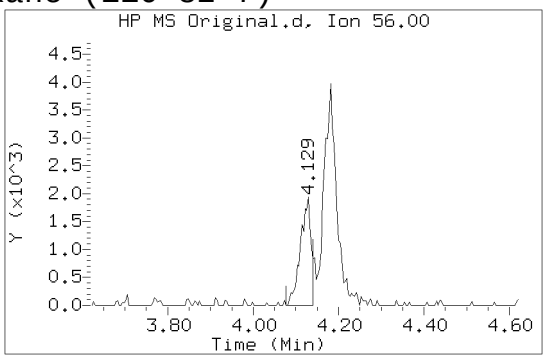


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Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

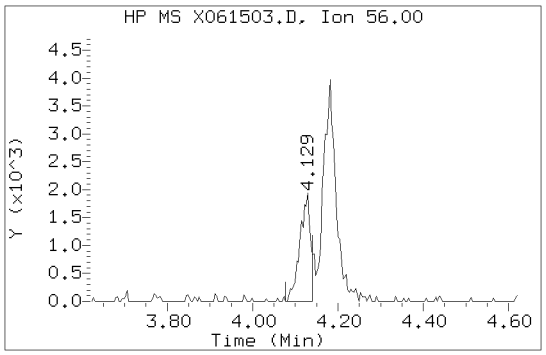
## Cyclohexane (110-82-7)

Reason Code:

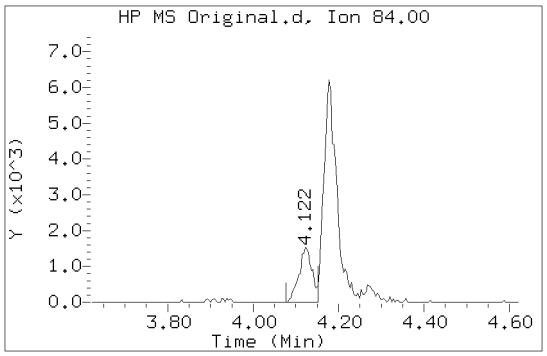
BEFORE
MASS
56
AREA
3419
HEIGHT
1943
20-Jun-2023
18:22
linh
pham



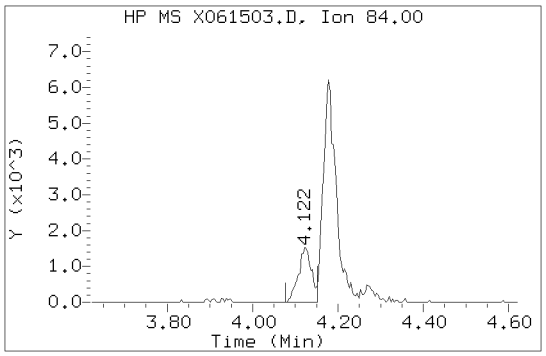

AFTER
MASS
56
AREA
3419
HEIGHT
1943
20-Jun-2023
18:22
linh
pham



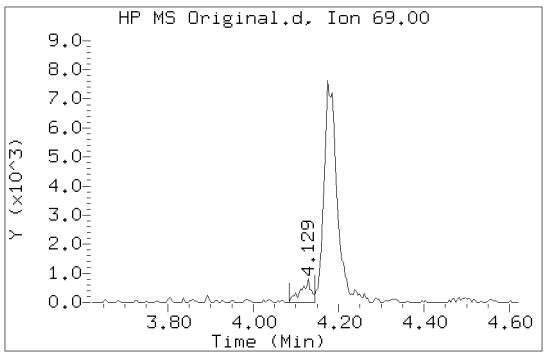

BEFORE
MASS
84
AREA
3364
HEIGHT
1527
20-Jun-2023
18:22
linh
pham



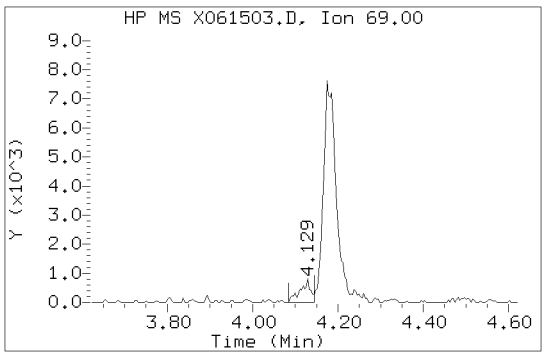

AFTER
MASS
84
AREA
3364
HEIGHT
1527
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
69
AREA
1355
HEIGHT
815
20-Jun-2023
18:22
linh
pham



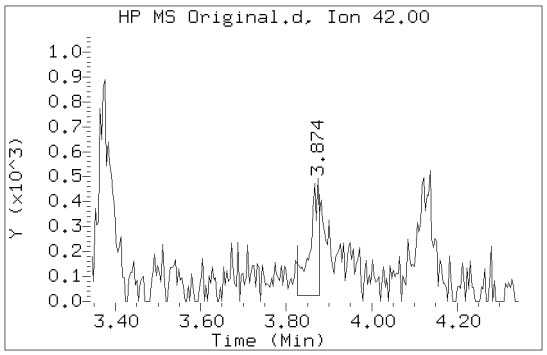

AFTER
MASS
69
AREA
1355
HEIGHT
815
20-Jun-2023
18:22
linh
pham



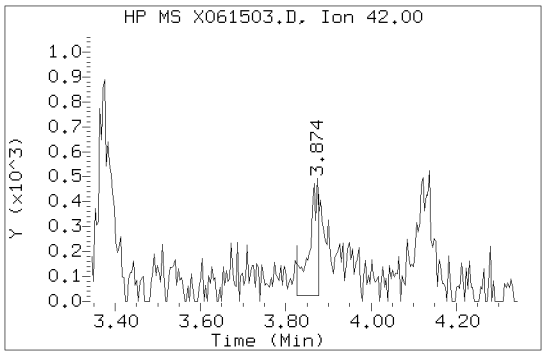

## Tetrahydrofuran (109-99-9)

Reason Code:

BEFORE
MASS
42
AREA
724
HEIGHT
470
20-Jun-2023
18:22
linh
pham




AFTER
MASS
42
AREA
724
HEIGHT
470
20-Jun-2023
18:22
linh
pham



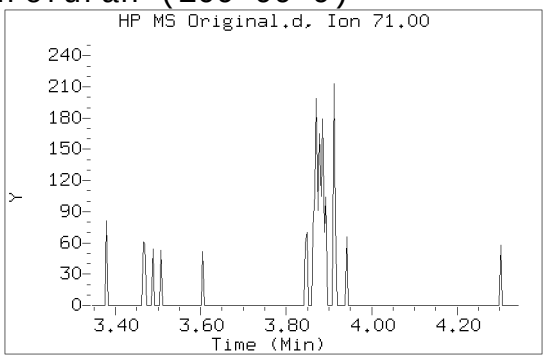
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## Tetrahydrofuran (109-99-9)

Reason Code:

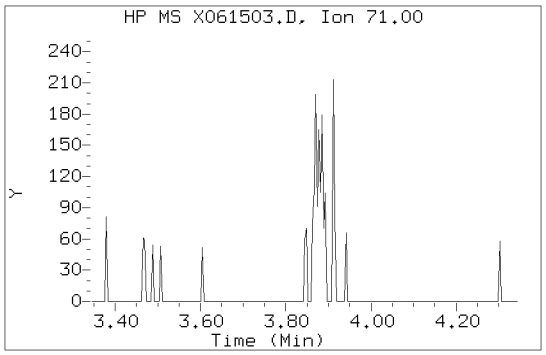
BEFORE

MASS
71
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER

MASS
71
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

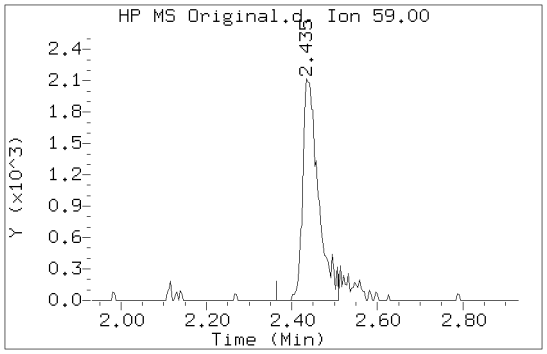



## Tert-butyl alcohol (75-65-0)

Reason Code:

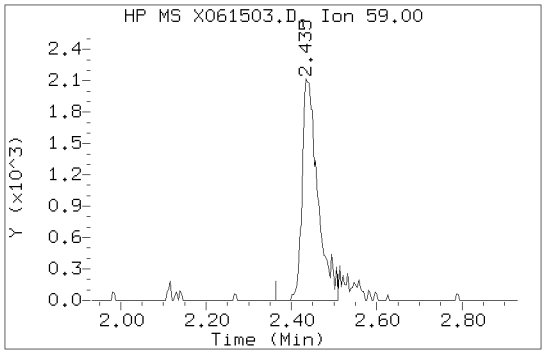
BEFORE

MASS
59
AREA
5403
HEIGHT
2119
20-Jun-2023
18:22
linh
pham



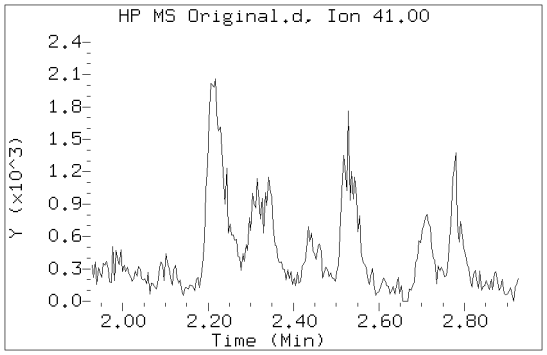

AFTER

MASS
59
AREA
5403
HEIGHT
2119
20-Jun-2023
18:22
linh
pham



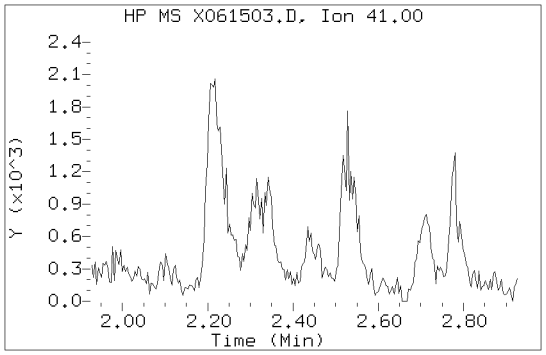

BEFORE

MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER

MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

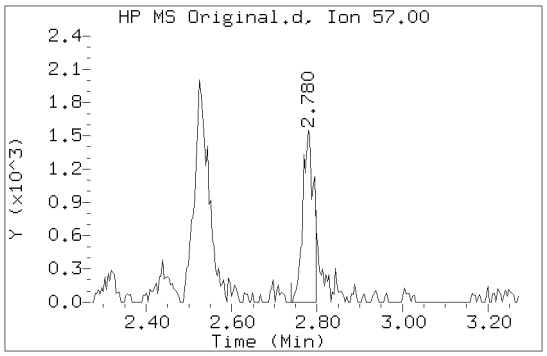



## Allyl alcohol (107-18-6)

Reason Code:

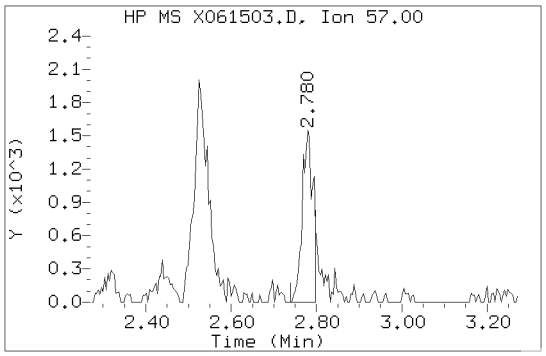
BEFORE

MASS
57
AREA
2756
HEIGHT
1552
20-Jun-2023
18:22
linh
pham




AFTER

MASS
57
AREA
2756
HEIGHT
1552
20-Jun-2023
18:22
linh
pham

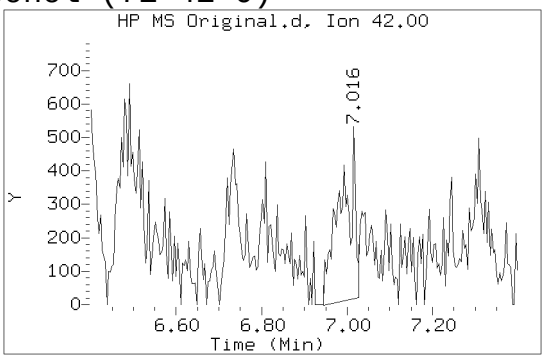


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

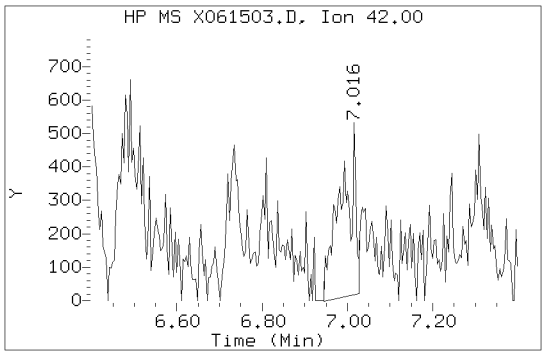
## Amyl alcohol (71-41-0)

Reason Code:

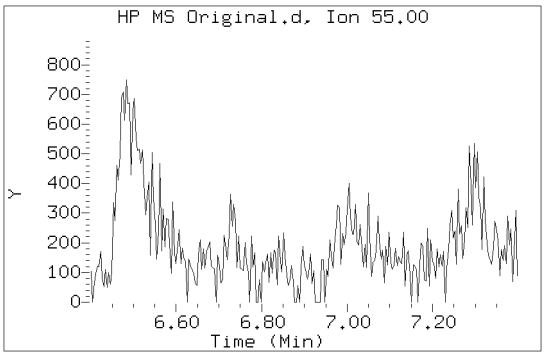
BEFORE
MASS
42
AREA
1185
HEIGHT
514
20-Jun-2023
18:22
linh
pham



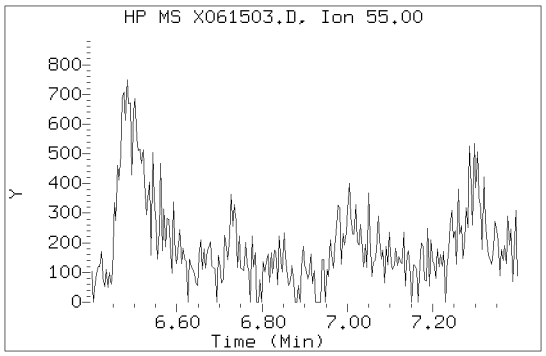

AFTER
MASS
42
AREA
1185
HEIGHT
514
20-Jun-2023
18:22
linh
pham



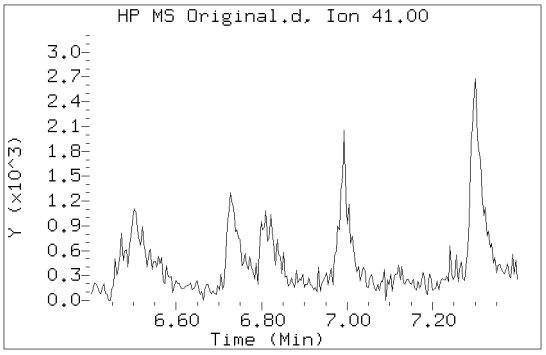

BEFORE
MASS
55
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



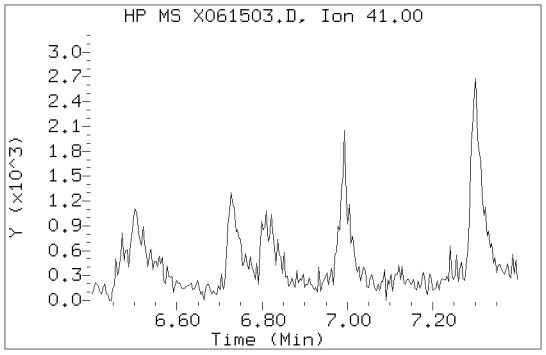

AFTER
MASS
55
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



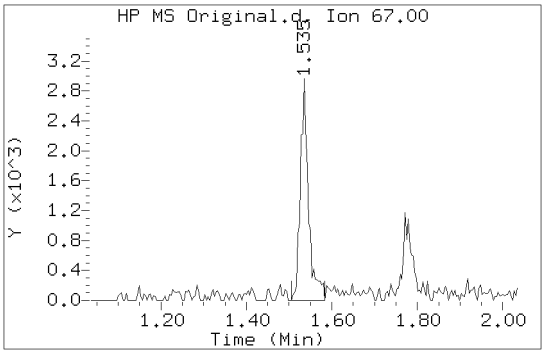

AFTER
MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



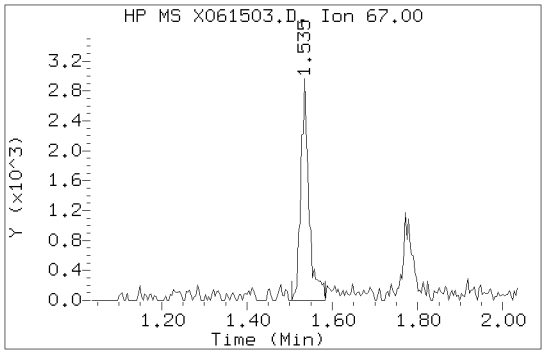

## Dichlorofluoromethane (75-43-4)

Reason Code:

BEFORE
MASS
67
AREA
4041
HEIGHT
2965
20-Jun-2023
18:22
linh
pham




AFTER
MASS
67
AREA
4041
HEIGHT
2965
20-Jun-2023
18:22
linh
pham

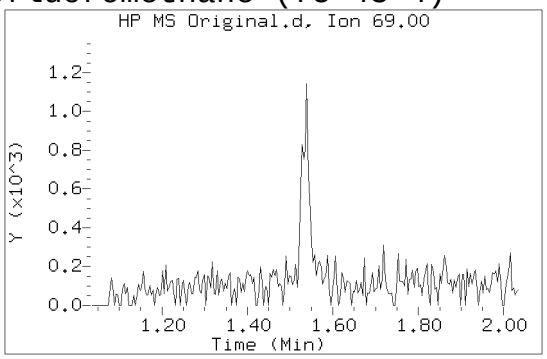


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Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

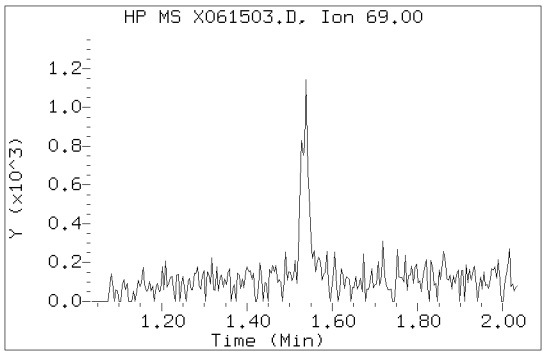
## Dichlorofluoromethane (75-43-4)

Reason Code:

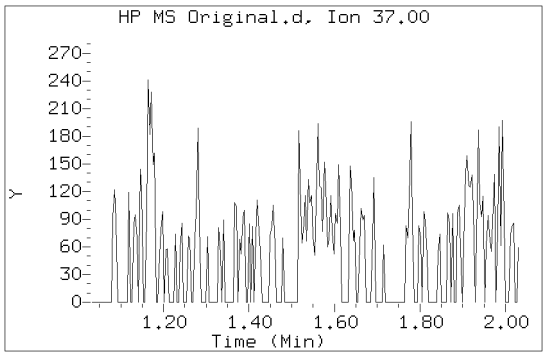
BEFORE
MASS
69
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



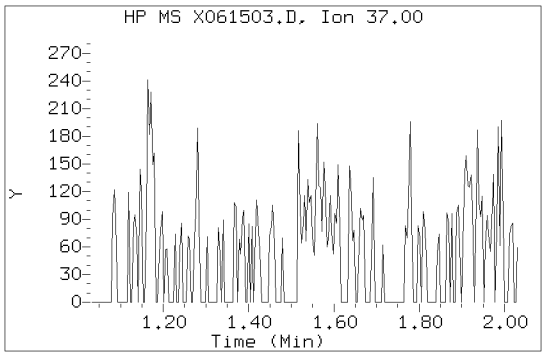

AFTER
MASS
69
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
37
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



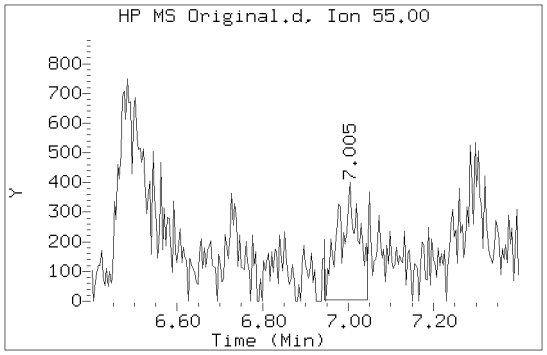

AFTER
MASS
37
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



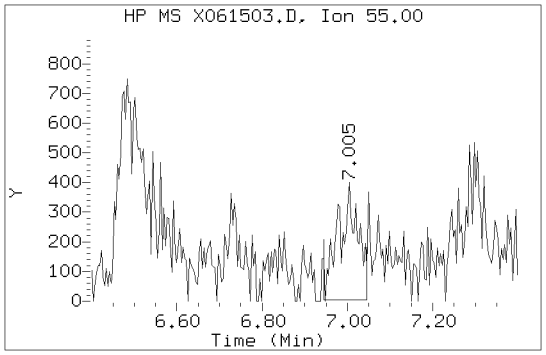

## 3-Methyl-1-butanol (123-51-3)

Reason Code:

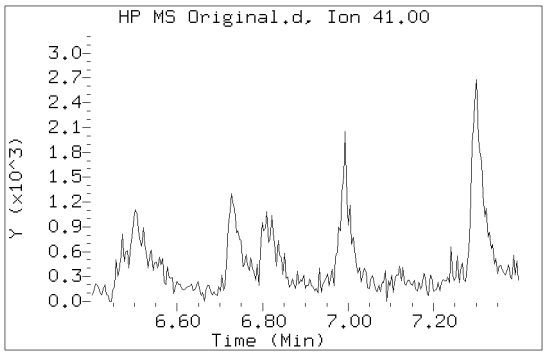
BEFORE
MASS
55
AREA
1270
HEIGHT
395
20-Jun-2023
18:22
linh
pham



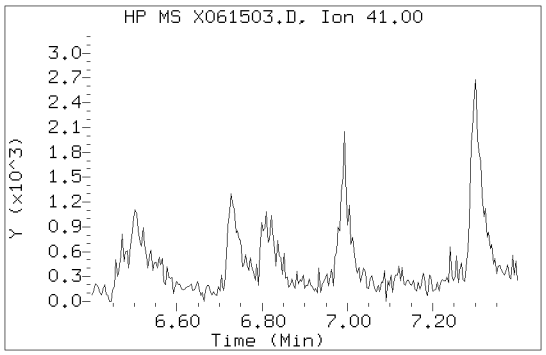

AFTER
MASS
55
AREA
1270
HEIGHT
395
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER
MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

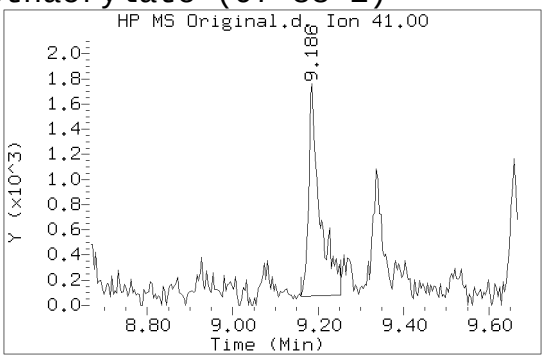


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Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

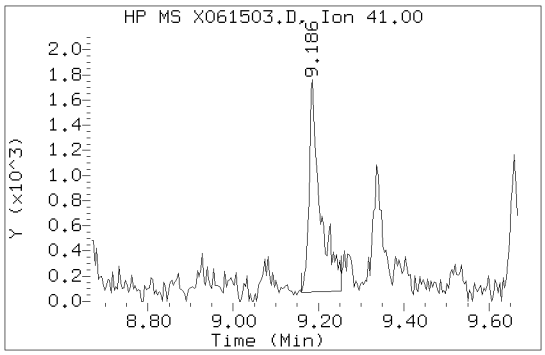
## Butyl methacrylate (97-88-1)

Reason Code:

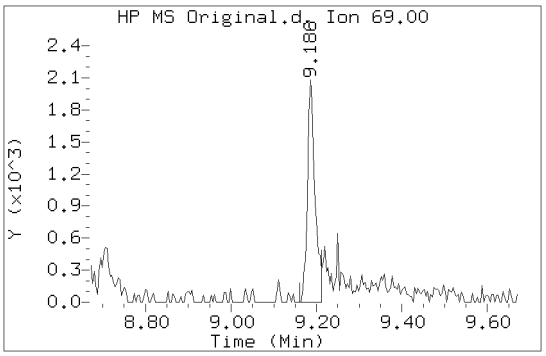
BEFORE
MASS
41
AREA
3107
HEIGHT
1689
20-Jun-2023
18:22
linh
pham



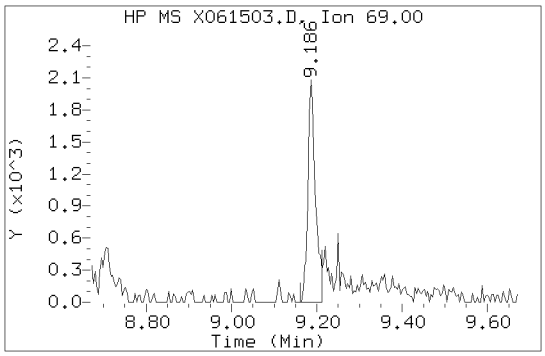

AFTER
MASS
41
AREA
3107
HEIGHT
1689
20-Jun-2023
18:22
linh
pham



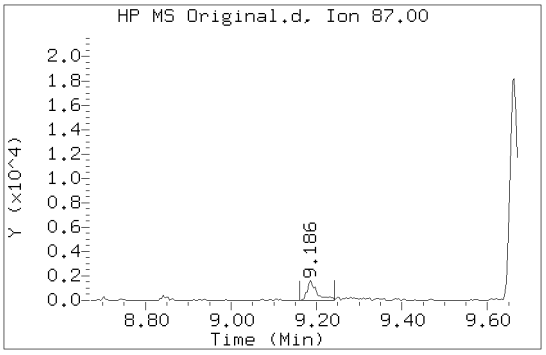

BEFORE
MASS
69
AREA
2593
HEIGHT
2081
20-Jun-2023
18:22
linh
pham



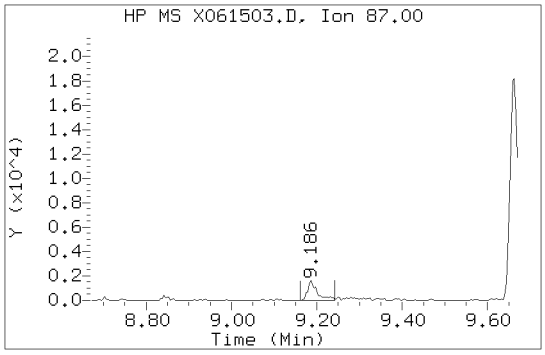

AFTER
MASS
69
AREA
2593
HEIGHT
2081
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
87
AREA
2538
HEIGHT
1610
20-Jun-2023
18:22
linh
pham



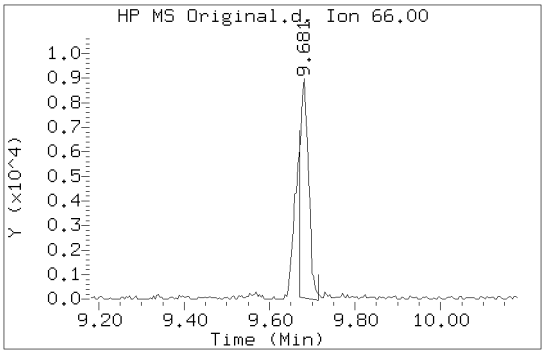

AFTER
MASS
87
AREA
2538
HEIGHT
1610
20-Jun-2023
18:22
linh
pham



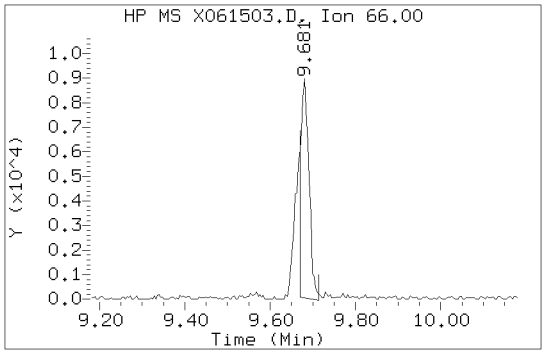

## Dicyclopentadiene (77-73-6)

Reason Code:

BEFORE
MASS
66
AREA
12411
HEIGHT
8929
20-Jun-2023
18:22
linh
pham




AFTER
MASS
66
AREA
12411
HEIGHT
8929
20-Jun-2023
18:22
linh
pham



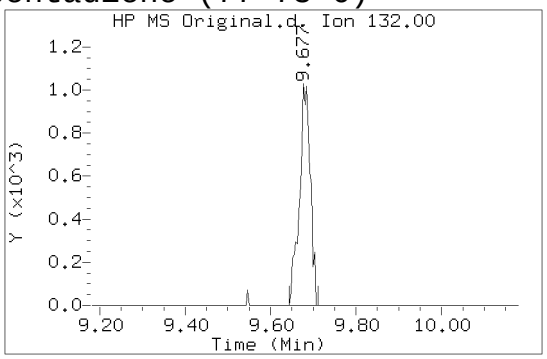
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Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## Dicyclopentadiene (77-73-6)

Reason Code:

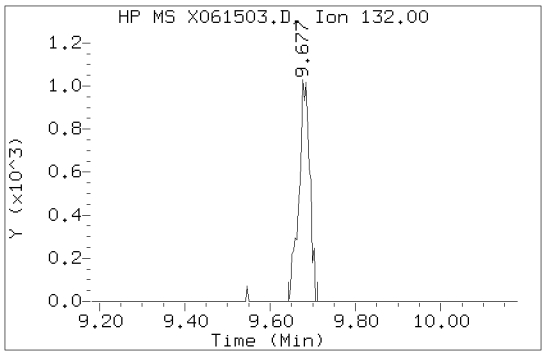
BEFORE

MASS
132
AREA
1844
HEIGHT
1029
20-Jun-2023
18:22
linh
pham




AFTER

MASS
132
AREA
1844
HEIGHT
1029
20-Jun-2023
18:22
linh
pham

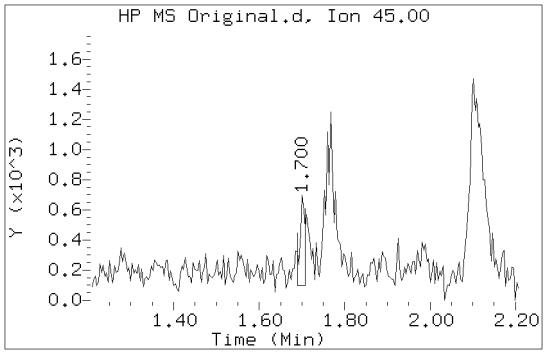



## Ethanol (64-17-5)

Reason Code:

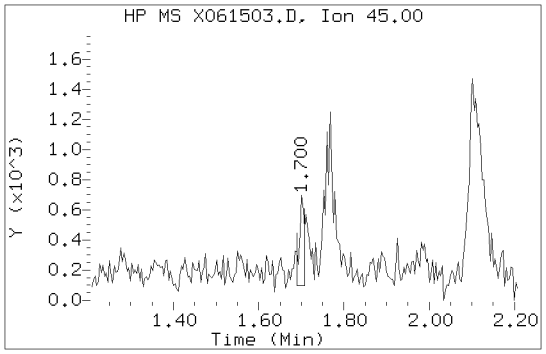
BEFORE

MASS
45
AREA
492
HEIGHT
597
20-Jun-2023
18:22
linh
pham



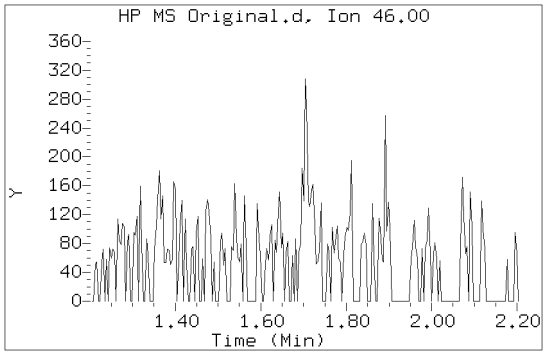

AFTER

MASS
45
AREA
492
HEIGHT
597
20-Jun-2023
18:22
linh
pham



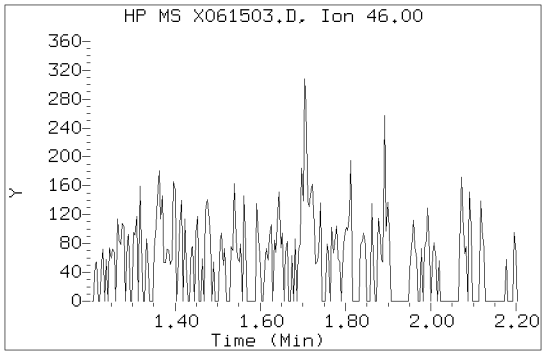

BEFORE

MASS
46
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



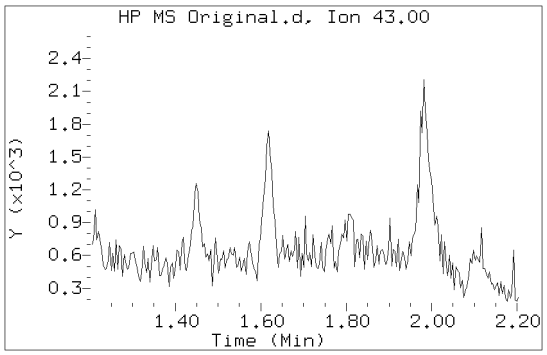

AFTER

MASS
46
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



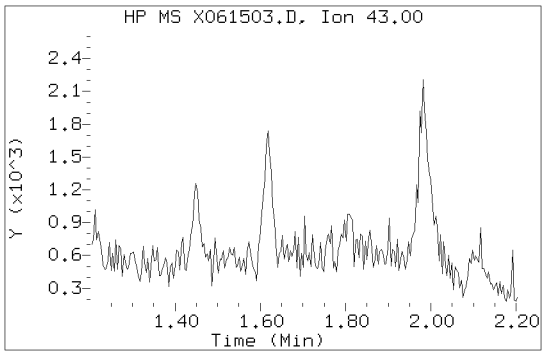

BEFORE

MASS
43
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER

MASS
43
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

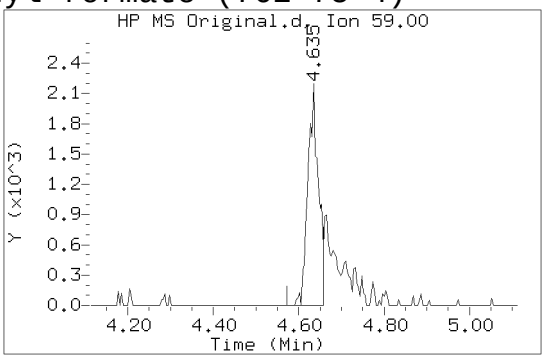


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Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

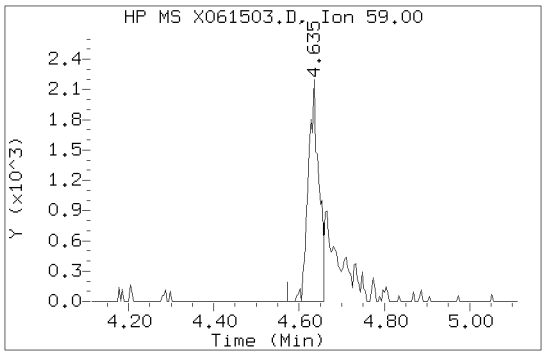
## tert-Butyl formate (762-75-4)

Reason Code:

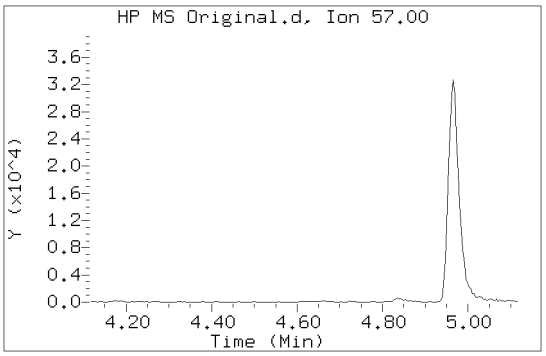
BEFORE
MASS
59
AREA
3776
HEIGHT
2196
20-Jun-2023
18:22
linh
pham



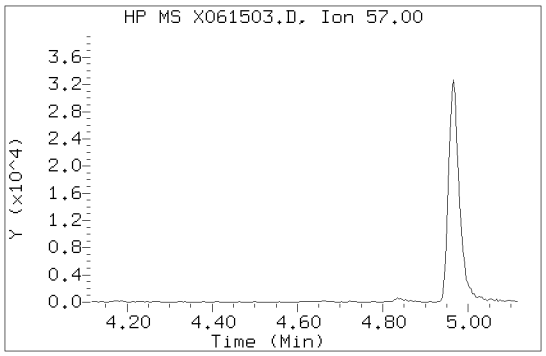

AFTER
MASS
59
AREA
3776
HEIGHT
2196
20-Jun-2023
18:22
linh
pham



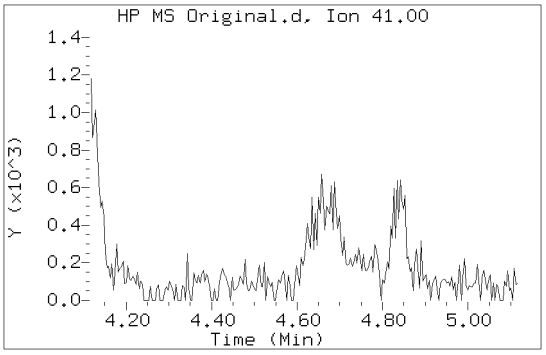

BEFORE
MASS
57
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



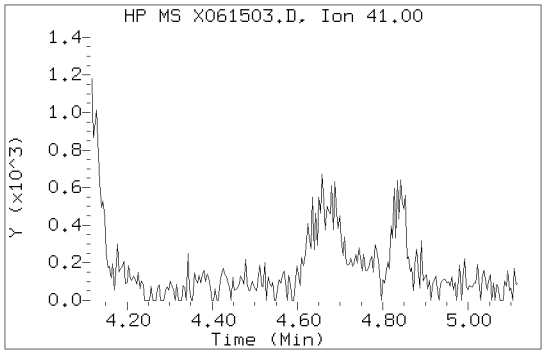

AFTER
MASS
57
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



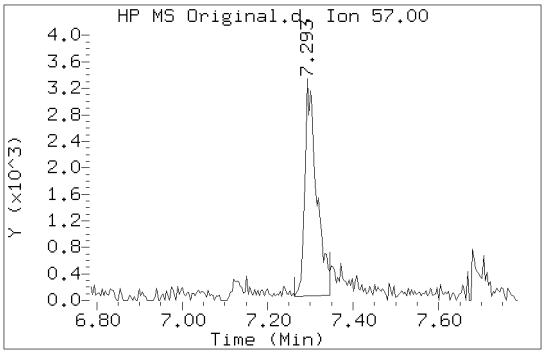

AFTER
MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



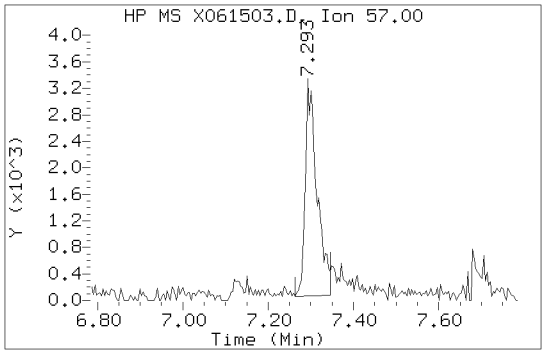

## 3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE
MASS
57
AREA
6294
HEIGHT
3279
20-Jun-2023
18:22
linh
pham




AFTER
MASS
57
AREA
6294
HEIGHT
3279
20-Jun-2023
18:22
linh
pham

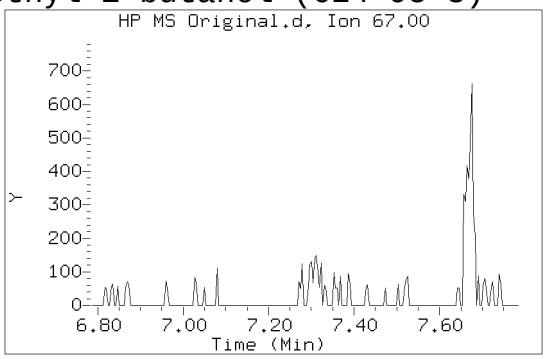


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

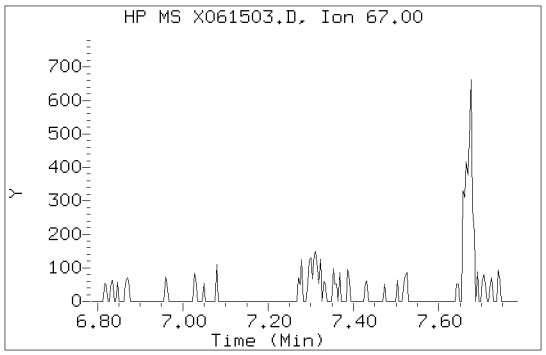
## 3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

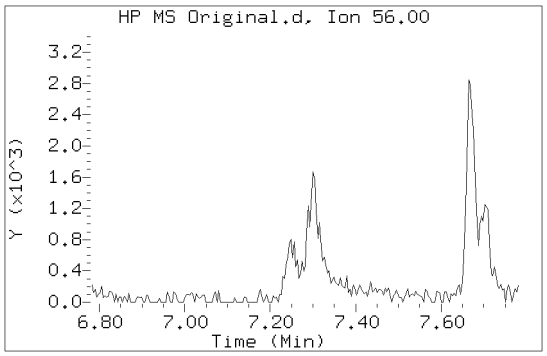
BEFORE
MASS
67
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



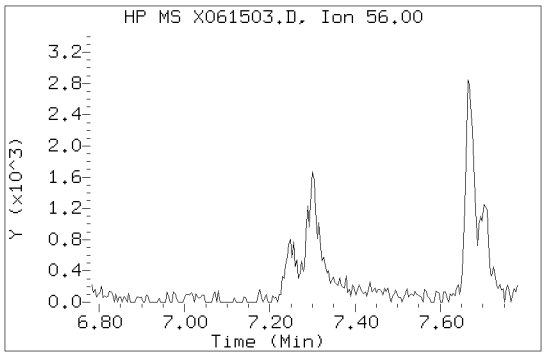

AFTER
MASS
67
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
56
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



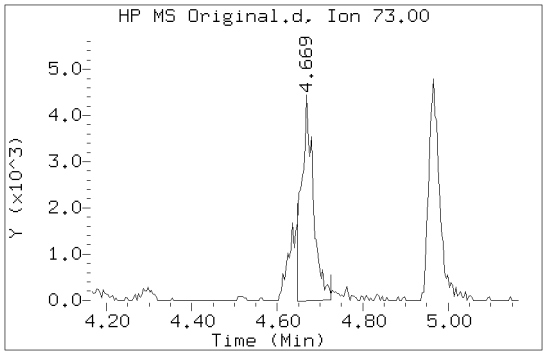

AFTER
MASS
56
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



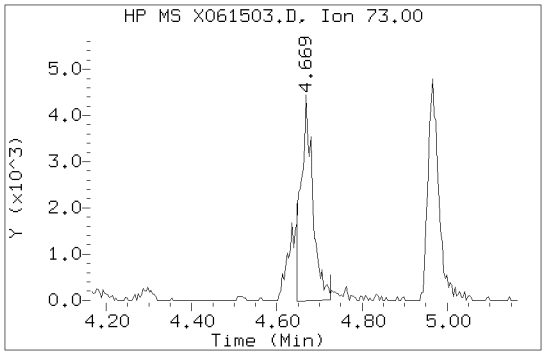

## tert-Amyl methyl ether (974-05-08)

Reason Code:

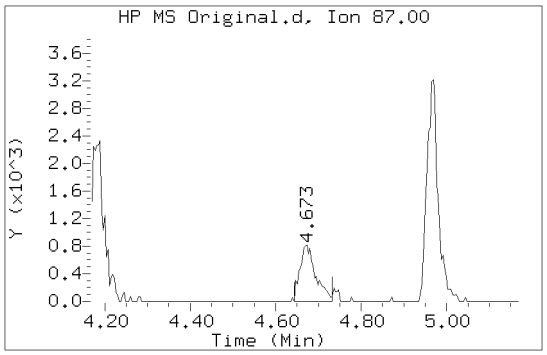
BEFORE
MASS
73
AREA
8758
HEIGHT
4459
20-Jun-2023
18:22
linh
pham



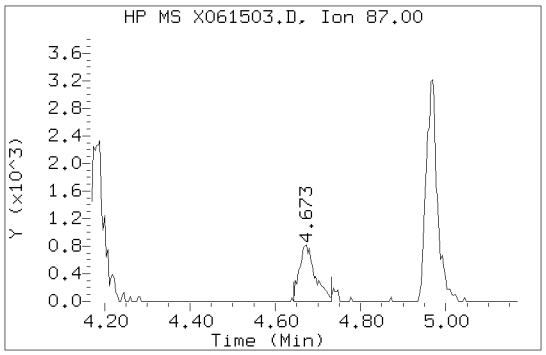

AFTER
MASS
73
AREA
8758
HEIGHT
4459
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
87
AREA
2131
HEIGHT
816
20-Jun-2023
18:22
linh
pham




AFTER
MASS
87
AREA
2131
HEIGHT
816
20-Jun-2023
18:22
linh
pham



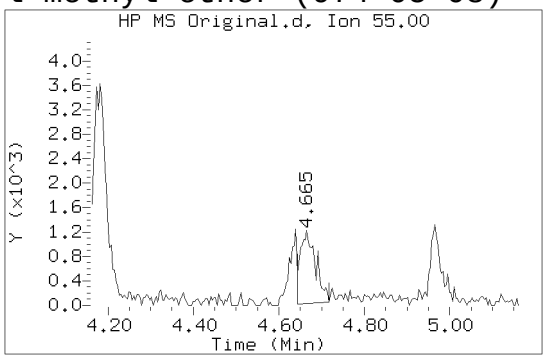
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Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## tert-Amyl methyl ether (974-05-08)

Reason Code:

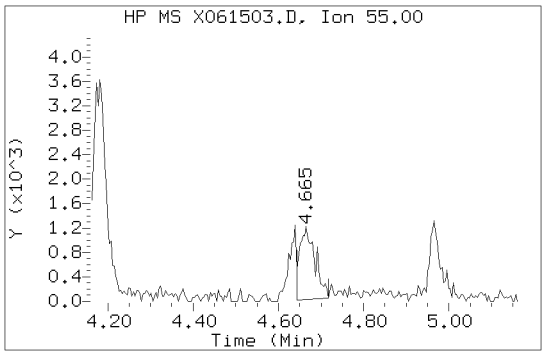
BEFORE

MASS
55
AREA
3038
HEIGHT
1195
20-Jun-2023
18:22
linh
pham




AFTER

MASS
55
AREA
3038
HEIGHT
1195
20-Jun-2023
18:22
linh
pham

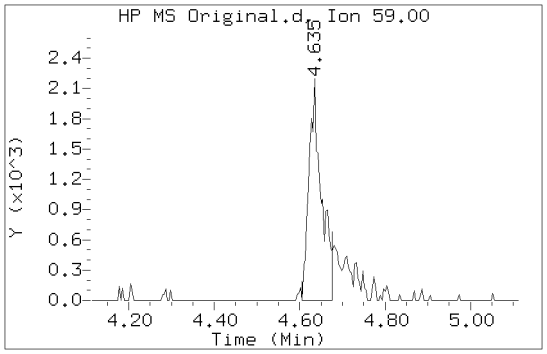



## tert-Amyl alcohol (75-85-4)

Reason Code:

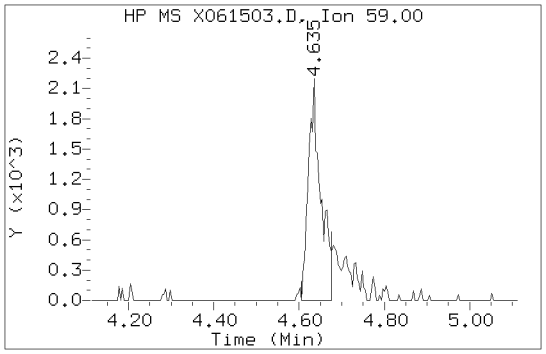
BEFORE

MASS
59
AREA
4487
HEIGHT
2196
20-Jun-2023
18:22
linh
pham



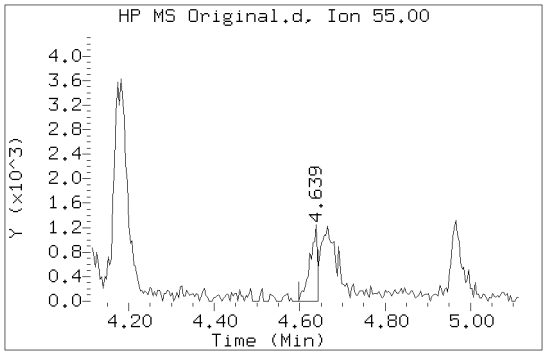

AFTER

MASS
59
AREA
4487
HEIGHT
2196
20-Jun-2023
18:22
linh
pham



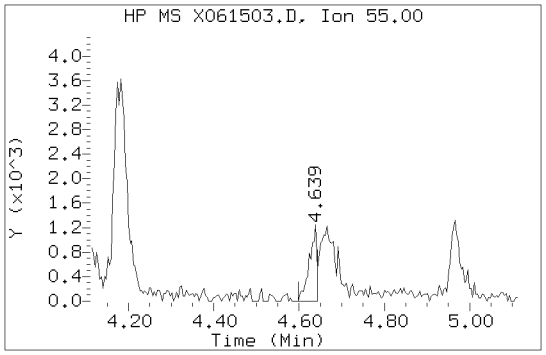

BEFORE

MASS
55
AREA
1491
HEIGHT
1253
20-Jun-2023
18:22
linh
pham



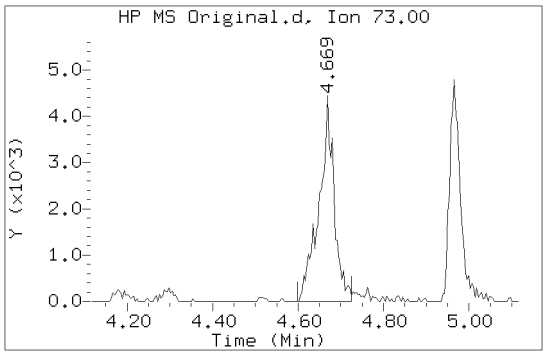

AFTER

MASS
55
AREA
1491
HEIGHT
1253
20-Jun-2023
18:22
linh
pham



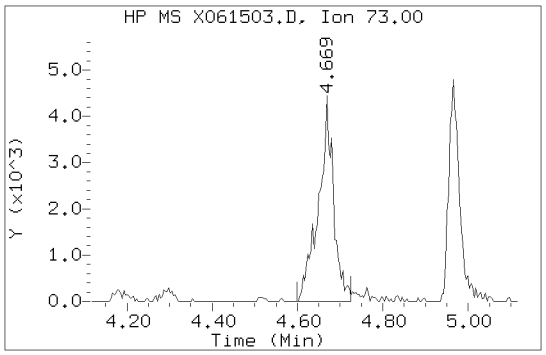

BEFORE

MASS
73
AREA
10859
HEIGHT
4450
20-Jun-2023
18:22
linh
pham




AFTER

MASS
73
AREA
10859
HEIGHT
4450
20-Jun-2023
18:22
linh
pham



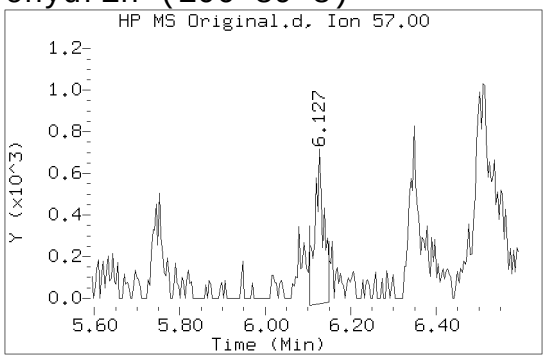
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Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## Epichlorohydrin (106-89-8)

Reason Code:

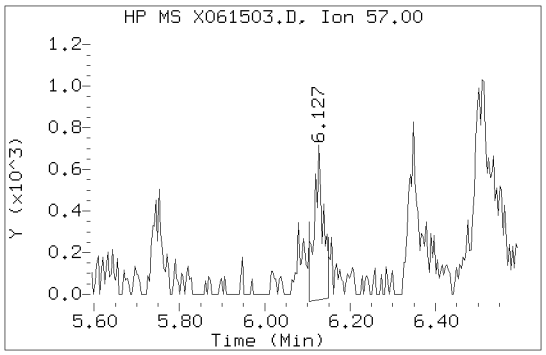
BEFORE

MASS
57
AREA
1097
HEIGHT
743
20-Jun-2023
18:22
linh
pham



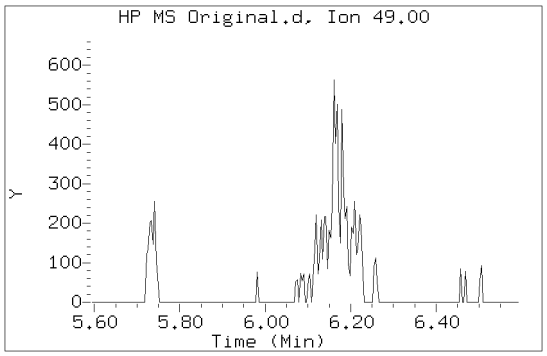

AFTER

MASS
57
AREA
1097
HEIGHT
743
20-Jun-2023
18:22
linh
pham



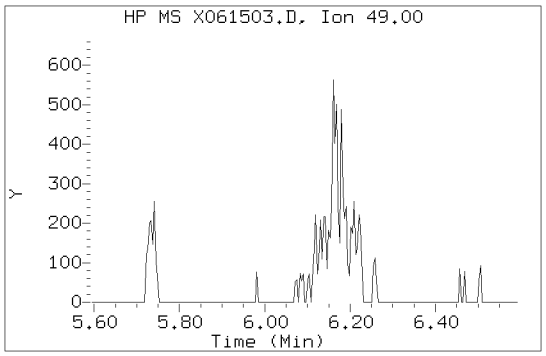

BEFORE

MASS
49
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER

MASS
49
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

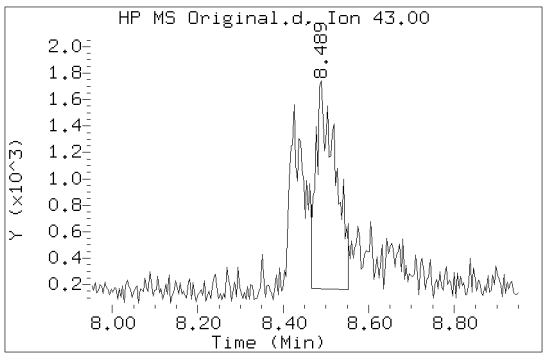



## n-Amyl acetate (628-63-7)

Reason Code:

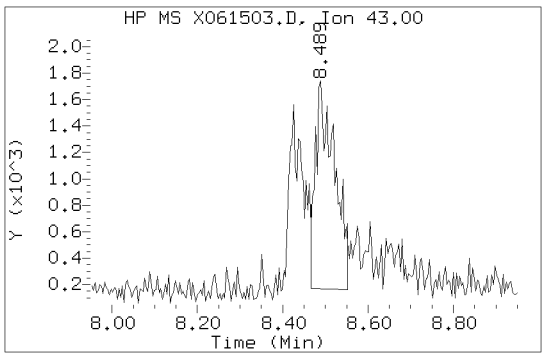
BEFORE

MASS
43
AREA
4951
HEIGHT
1570
20-Jun-2023
18:22
linh
pham



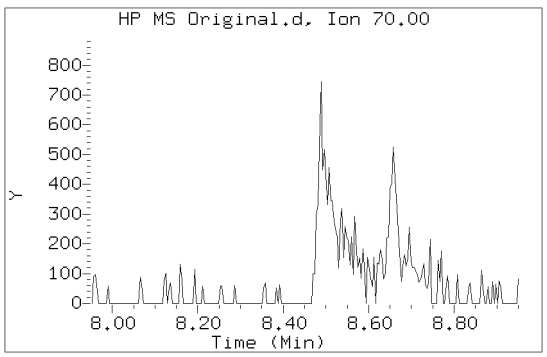

AFTER

MASS
43
AREA
4951
HEIGHT
1570
20-Jun-2023
18:22
linh
pham



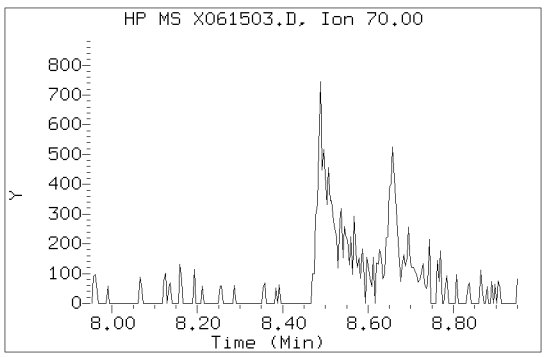

BEFORE

MASS
70
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER

MASS
70
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



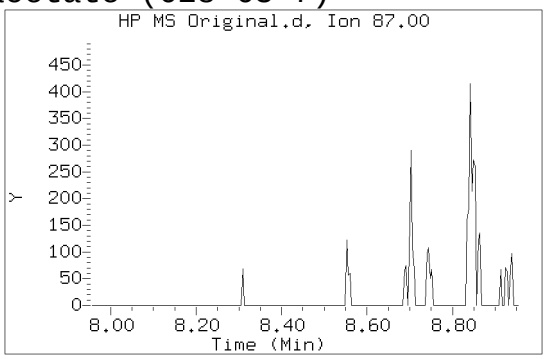
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Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## n-Amyl acetate (628-63-7)

Reason Code:

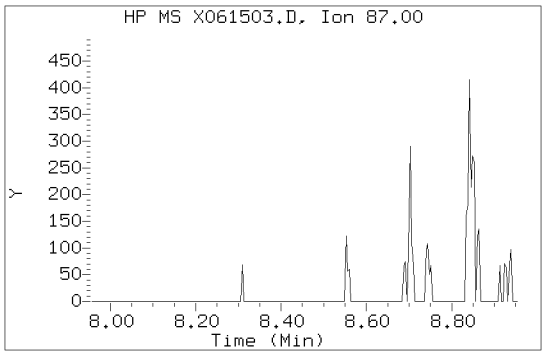
**BEFORE**

MASS
87
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
87
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

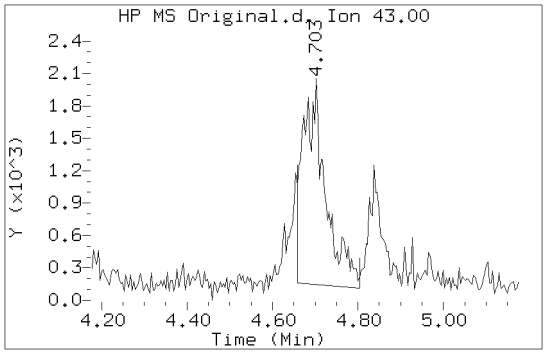



## Isopropyl acetate (108-21-4)

Reason Code:

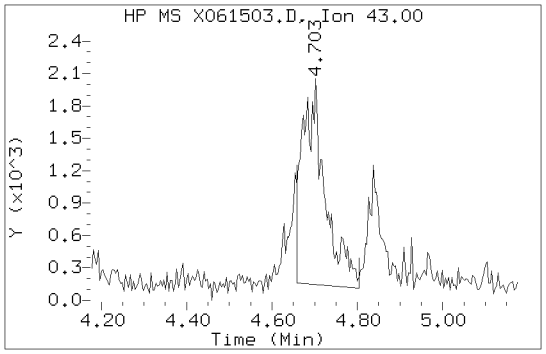
**BEFORE**

MASS
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AREA
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HEIGHT
1907
20-Jun-2023
18:22
linh
pham



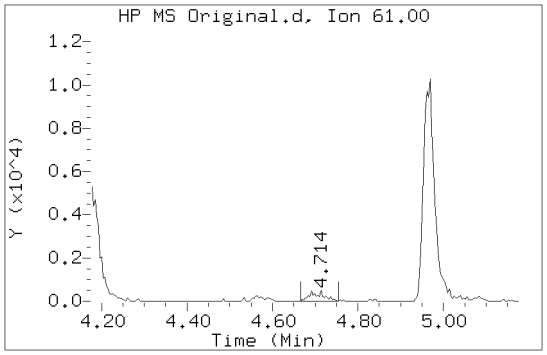

**AFTER**

MASS
43
AREA
7126
HEIGHT
1907
20-Jun-2023
18:22
linh
pham



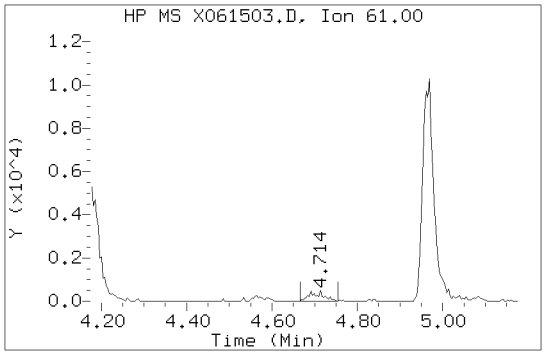

**BEFORE**

MASS
61
AREA
1030
HEIGHT
498
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
61
AREA
1030
HEIGHT
498
20-Jun-2023
18:22
linh
pham

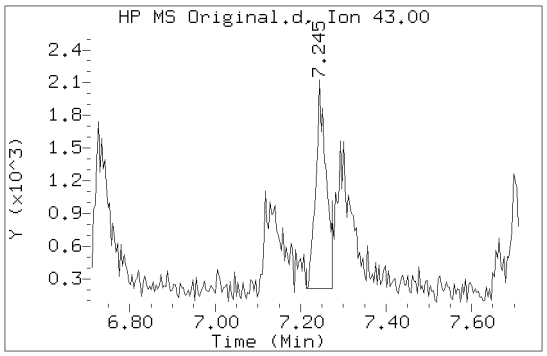



## n-Butyl acetate (123-86-4)

Reason Code:

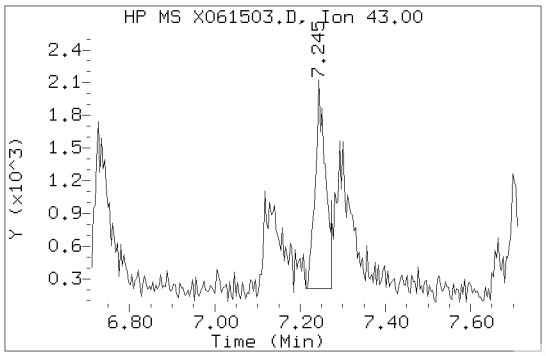
**BEFORE**

MASS
43
AREA
3227
HEIGHT
1914
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
43
AREA
3227
HEIGHT
1914
20-Jun-2023
18:22
linh
pham

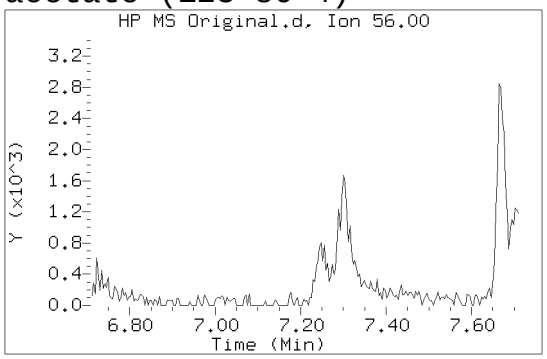


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Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

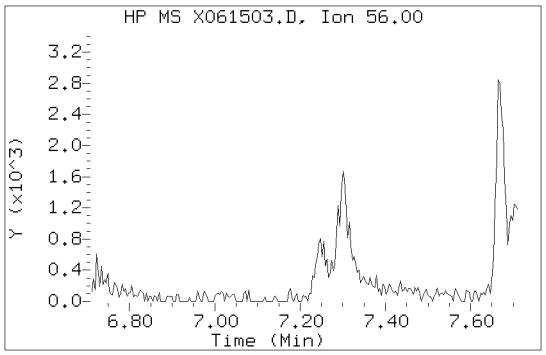
## n-Butyl acetate (123-86-4)

Reason Code:

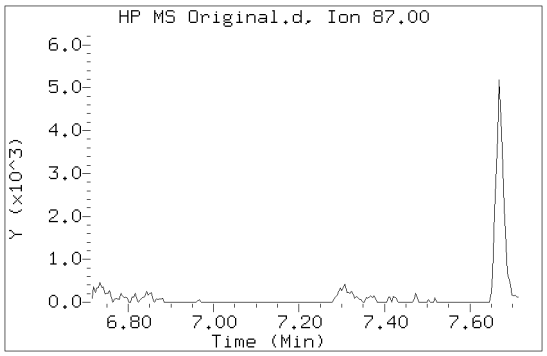
BEFORE
MASS
56
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



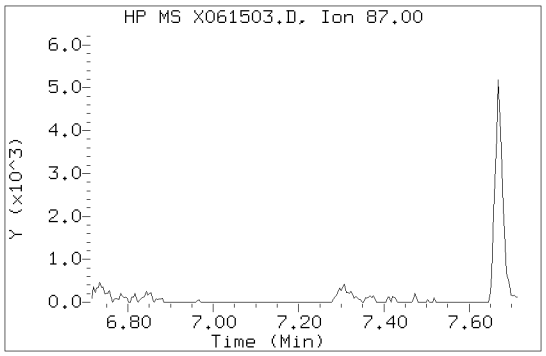

AFTER
MASS
56
AREA
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HEIGHT
0
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
87
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



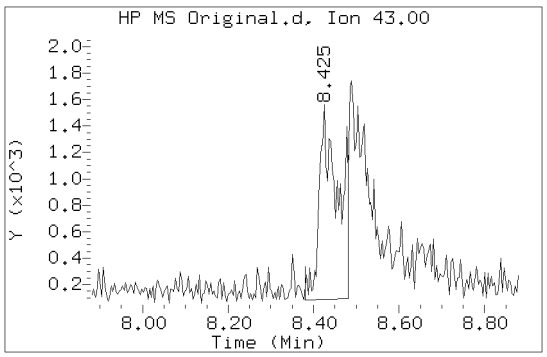

AFTER
MASS
87
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



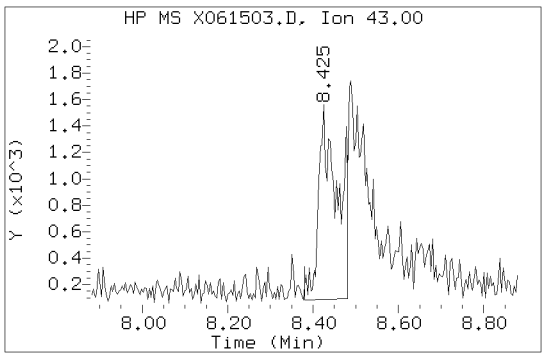

## Methyl Amyl Ketone (110-43-0)

Reason Code:

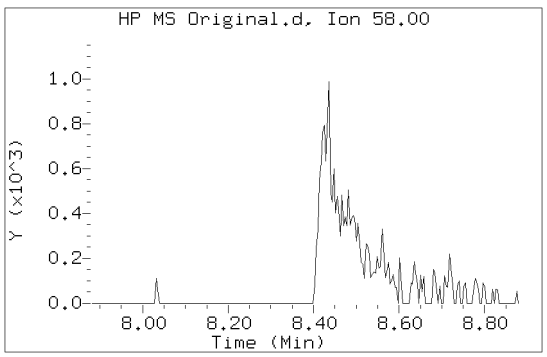
BEFORE
MASS
43
AREA
4519
HEIGHT
1475
20-Jun-2023
18:22
linh
pham



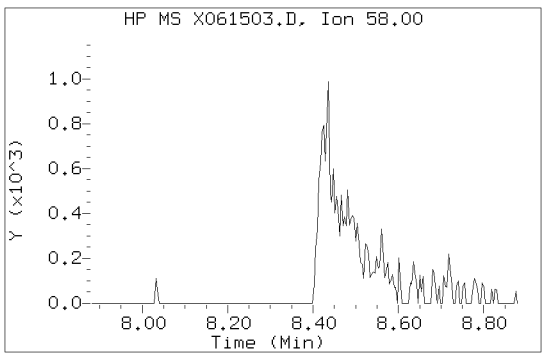

AFTER
MASS
43
AREA
4519
HEIGHT
1475
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
58
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER
MASS
58
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

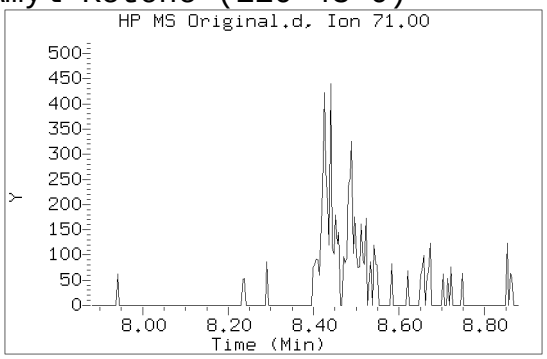


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

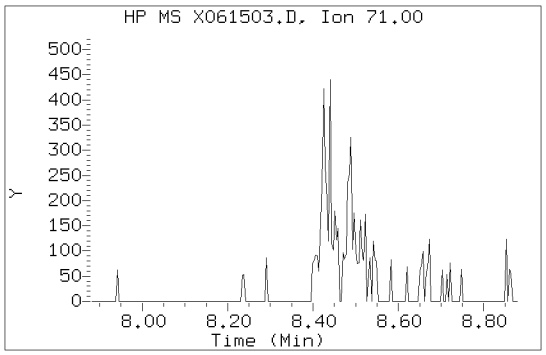
## Methyl Amyl Ketone (110-43-0)

Reason Code:

BEFORE
MASS
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AREA
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HEIGHT
0
20-Jun-2023
18:22
linh
pham



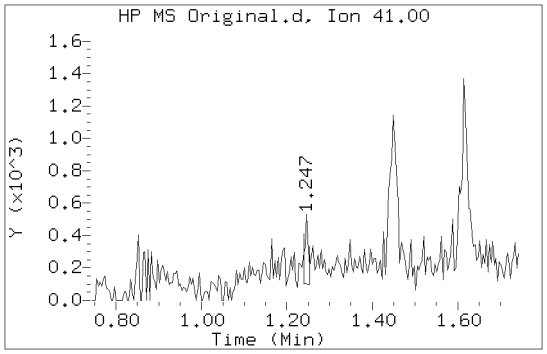

AFTER
MASS
71
AREA
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HEIGHT
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20-Jun-2023
18:22
linh
pham



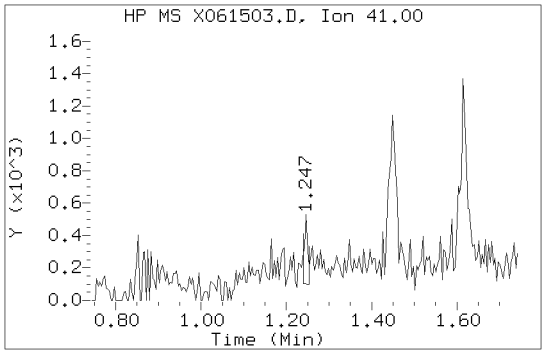

## Isobutylene (115-11-7)

Reason Code:

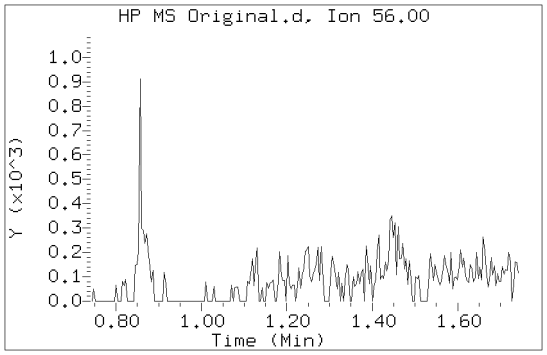
BEFORE
MASS
41
AREA
264
HEIGHT
430
20-Jun-2023
18:22
linh
pham



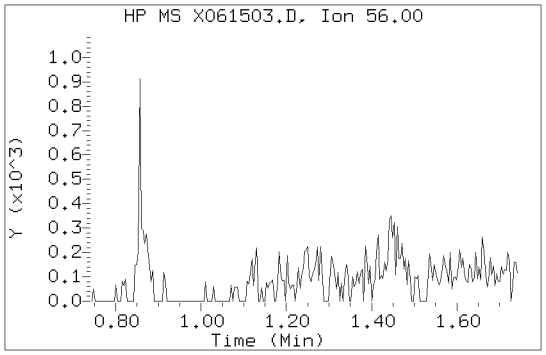

AFTER
MASS
41
AREA
264
HEIGHT
430
20-Jun-2023
18:22
linh
pham



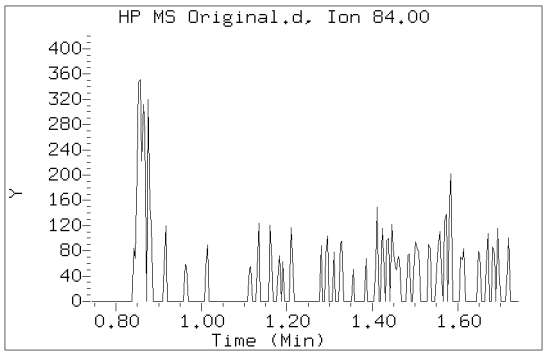

BEFORE
MASS
56
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



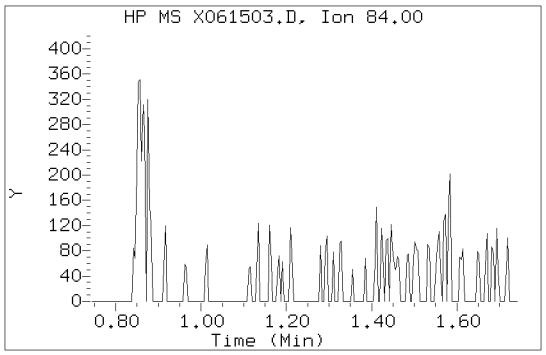

AFTER
MASS
56
AREA
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HEIGHT
0
20-Jun-2023
18:22
linh
pham




BEFORE
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84
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER
MASS
84
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



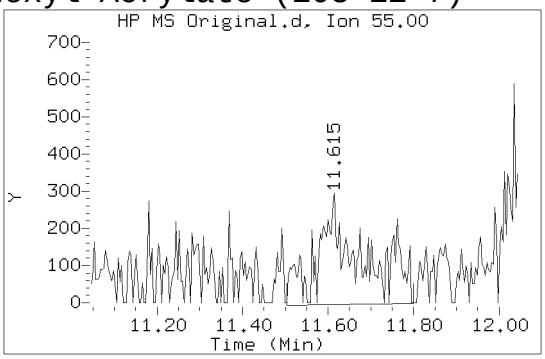
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Inj Date : 15-JUN-2023 11:36
InstruID : voa6.i
LabSampID : VSTD000.5

## 2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

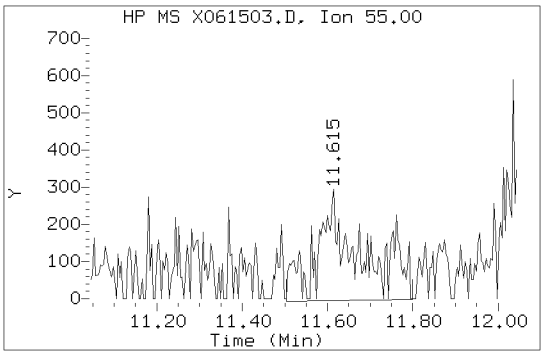
BEFORE

MASS
55
AREA
2087
HEIGHT
299
20-Jun-2023
18:22
linh
pham



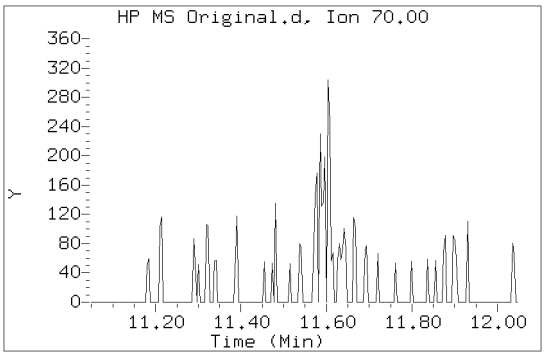

AFTER

MASS
55
AREA
2087
HEIGHT
299
20-Jun-2023
18:22
linh
pham



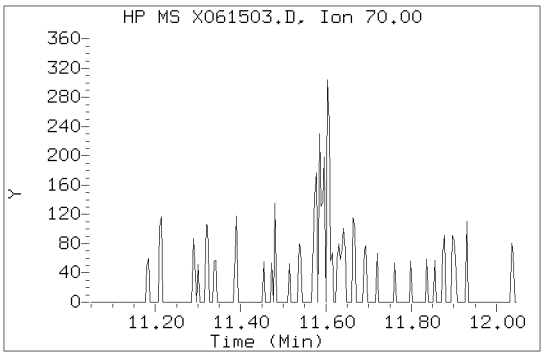

BEFORE

MASS
70
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER

MASS
70
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 15-JUN-2023 12:18
Operator : PC Inst ID: voa6.i
Smp Info : VSTD001;VSTD001;1;3;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 12:18 Cal File: X061504.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.181 | 4.181 | (1.000) | 476411 | 50.0000 | |
| 2 | Dichlorodifluoromethane | 85 | 0.976 | 0.976 | (0.234) | 4505 | 1.00000 | 1.42 |
| 3 | Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 5922 | 1.00000 | 2.17 |
| 4 | Propionitrile | 54 | 3.694 | 3.653 | (0.883) | 5974 | 10.0000 | 10.36(aM) |
| 5 | Vinyl Chloride | 62 | 1.145 | 1.149 | (0.274) | 5221 | 1.00000 | 1.04 |
| 6 | Bromomethane | 94 | 1.347 | 1.344 | (0.322) | 3161 | 1.00000 | 1.10(M) |
| 7 | Chloroethane | 64 | 1.403 | 1.407 | (0.336) | 3224 | 1.00000 | 1.05 |
| 8 | Trichlorofluoromethane | 101 | 1.565 | 1.565 | (0.374) | 6281 | 1.00000 | 1.05 |
| 9 | Acrolein | 56 | 1.452 | 1.449 | (0.347) | 538 | 2.00000 | 1.81(aM) |
| 10 | Acetone | 43 | 1.981 | 1.973 | (0.474) | 4663 | 2.00000 | 3.49(M) |
| 11 | 1,1-Dichloroethene | 96 | 1.917 | 1.917 | (0.459) | 4255 | 1.00000 | 1.14 |
| 12 | Isobutyl Alcohol | 43 | 4.687 | 4.676 | (1.121) | 12753 | 20.0000 | 20.52(a) |
| 13 | Acetonitrile | 39 | 2.206 | 2.202 | (0.528) | 4200 | 10.0000 | 9.08(a) |
| 14 | Allyl Chloride | 41 | 2.209 | 2.202 | (0.528) | 9998 | 1.00000 | 0.95(a) |
| 15 | Iodomethane | 142 | 2.029 | 2.030 | (0.485) | 6227 | 2.00000 | 3.31(M) |
| 16 | Acrylonitrile | 53 | 2.592 | 2.536 | (0.620) | 2830 | 2.00000 | 1.87(M) |
| 17 | Methylene Chloride | 84 | 2.311 | 2.307 | (0.553) | 6477 | 1.00000 | 1.22(M) |
| 18 | Methyl tert-butyl ether | 73 | 2.539 | 2.536 | (0.607) | 12904 | 1.00000 | 0.99 |
| 19 | Carbon Disulfide | 76 | 2.074 | 2.071 | (0.496) | 28412 | 2.00000 | 2.13 |
| 20 | trans-1,2-Dichloroethene | 96 | 2.536 | 2.532 | (0.606) | 4869 | 1.00000 | 1.09 |
| 21 | Vinyl Acetate | 43 | 3.030 | 2.997 | (0.725) | 25154 | 2.00000 | 2.11(M) |

| | | | | | | |
|---|---|---|---|---|---|---|
| 22 1,1-Dichloroethane | 63 | 2.925 | 2.922 (0.700) | 8535 | 1.00000 | 1.06(M) |
| 23 Chloroprene | 53 | 1.782 | 1.775 (0.426) | 1506 | 1.00000 | 0.95(aM) |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 24 2-Butanone | 43 | 3.675 | 3.578 | (0.879) | 2970 | 2.00000 | 1.89(M) |
| | 25 Methacrylonitrile | 41 | 3.859 | 3.821 | (0.923) | 4503 | 1.00000 | 1.14(aH) |
| | 26 2,2-Dichloropropane | 77 | 3.506 | 3.514 | (0.839) | 7438 | 1.00000 | 1.16 |
| | 27 cis-1,2-Dichloroethene | 96 | 3.533 | 3.525 | (0.845) | 5641 | 1.00000 | 1.09 |
| | 28 Chloroform | 83 | 3.908 | 3.904 | (0.935) | 9991 | 1.00000 | 1.15 |
| | 29 Bromochloromethane | 128 | 3.803 | 3.795 | (0.909) | 3072 | 1.00000 | 1.12 |
| $ | 30 Dibromofluoromethane | 113 | 4.106 | 4.099 | (0.982) | 5707 | 1.00000 | 1.00 |
| | 31 1,1,1-Trichloroethane | 97 | 4.080 | 4.084 | (0.976) | 7437 | 1.00000 | 1.06 |
| | 32 1,1-Dichloropropene | 75 | 4.286 | 4.279 | (0.863) | 5846 | 1.00000 | 0.93 |
| | 33 1,2-Dichloroethane | 62 | 4.571 | 4.556 | (0.921) | 6607 | 1.00000 | 1.05 |
| | 34 Carbon Tetrachloride | 117 | 4.260 | 4.264 | (0.858) | 6002 | 1.00000 | 1.00 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 4.481 | 4.470 | (1.072) | 6368 | 1.00000 | 0.55 |
| * | 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 742460 | 50.0000 | |
| | 37 Benzene | 78 | 4.522 | 4.511 | (0.911) | 20769 | 1.00000 | 1.08 |
| | 38 Trichloroethene | 130 | 5.216 | 5.205 | (1.051) | 5205 | 1.00000 | 0.98(a) |
| | 39 Bromodichloromethane | 83 | 5.729 | 5.722 | (1.154) | 7957 | 1.00000 | 1.17(a) |
| | 40 Methyl Methacrylate | 41 | 5.624 | 5.606 | (1.345) | 3817 | 1.00000 | 1.03(aM) |
| | 41 2-Chloroethylvinyl ether | 63 | 6.074 | 6.048 | (1.223) | 3674 | 2.00000 | 2.00(aM) |
| | 42 1,2-Dichloropropane | 63 | 5.441 | 5.437 | (1.096) | 4954 | 1.00000 | 0.98(aM) |
| | 43 2-Nitropropane | 43 | 5.977 | 5.966 | (1.429) | 1148 | 1.00000 | 0.89(aH) |
| | 44 Dibromomethane | 93 | 5.561 | 5.550 | (1.120) | 3549 | 1.00000 | 1.12(a) |
| | 45 4-Methyl-2-Pentanone | 43 | 6.337 | 6.322 | (0.826) | 9202 | 2.00000 | 2.06(aM) |
| | 46 cis-1,3-Dichloropropene | 75 | 6.168 | 6.153 | (1.242) | 8393 | 1.00000 | 1.00(a) |
| * | 47 Chlorobenzene-d5 | 117 | 7.667 | 7.668 | (1.000) | 689452 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.393 | 6.386 | (0.834) | 19747 | 1.00000 | 1.13(a) |
| | 49 Ethyl Methacrylate | 69 | 6.727 | 6.708 | (1.355) | 5923 | 1.00000 | 1.11(a) |
| | 50 Toluene | 91 | 6.457 | 6.445 | (0.842) | 20722 | 1.00000 | 1.02(a) |
| | 51 trans-1,3-Dichloropropene | 75 | 6.697 | 6.678 | (1.349) | 7608 | 1.00000 | 1.09(a) |
| | 52 2-Hexanone | 43 | 7.116 | 7.083 | (0.928) | 5813 | 2.00000 | 1.95(a) |
| | 53 1,1,2-Trichloroethane | 83 | 6.843 | 6.835 | (0.892) | 4096 | 1.00000 | 1.03(a) |
| | 54 1,3-Dichloropropane | 76 | 6.985 | 6.978 | (0.911) | 8386 | 1.00000 | 1.05(a) |
| | 55 Dibromochloromethane | 129 | 7.184 | 7.173 | (0.937) | 5861 | 1.00000 | 1.04(a) |
| | 56 Tetrachloroethene | 164 | 6.929 | 6.925 | (0.904) | 4148 | 1.00000 | 0.99(a) |
| | 57 1,2-Dibromoethane | 107 | 7.266 | 7.259 | (0.948) | 5555 | 1.00000 | 1.10(a) |
| | 58 1-Chlorohexane | 55 | 7.697 | 7.694 | (1.550) | 4565 | 1.00000 | 1.01(a) |
| | 59 Chlorobenzene | 112 | 7.697 | 7.690 | (1.004) | 14514 | 1.00000 | 1.04(a) |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 7.776 | 7.773 | (1.014) | 5613 | 1.00000 | 1.08(a) |
| | 61 Ethylbenzene | 106 | 7.806 | 7.799 | (1.018) | 7471 | 1.00000 | 1.04(a) |
| | 62 m,p-Xylenes | 106 | 7.911 | 7.900 | (1.032) | 16779 | 2.00000 | 1.90(a) |
| | 63 o-Xylene | 106 | 8.248 | 8.237 | (1.076) | 9263 | 1.00000 | 1.05(a) |
| | 64 Styrene | 104 | 8.286 | 8.256 | (1.081) | 14673 | 1.00000 | 1.01(a) |
| | 66 Bromoform | 173 | 8.417 | 8.410 | (1.098) | 3884 | 1.00000 | 0.99(Ta) |
| | 67 Isopropylbenzene | 105 | 8.563 | 8.560 | (1.117) | 21399 | 1.00000 | 0.98(a) |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 8.841 | 8.837 | (0.915) | 7862 | 1.00000 | 1.18(a) |
| $ | 69 4-Bromofluorobenzene | 95 | 8.698 | 8.687 | (1.134) | 11345 | 1.00000 | 1.16(a) |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.658 | (1.000) | 377369 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 8.871 | 8.863 | (0.918) | 4849 | 1.00000 | 1.01(a) |
| | 72 trans-1,4-Dichloro-2-butene | 53 | 8.919 | 8.886 | (1.163) | 1668 | 1.00000 | 0.99(aM) |
| | 73 n-Propylbenzene | 91 | 8.919 | 8.908 | (0.923) | 22989 | 1.00000 | 0.92(a) |
| | 74 Bromobenzene | 156 | 8.818 | 8.803 | (0.913) | 6344 | 1.00000 | 1.03(a) |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.073 | 9.066 | (0.939) | 18052 | 1.00000 | 0.99(a) |
| | 76 2-Chlorotoluene | 91 | 8.983 | 8.972 | (0.930) | 17472 | 1.00000 | 1.10(a) |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 77 | 4-Chlorotoluene | 91 | 9.088 | 9.070 (0.941) | 17079 | 1.00000 | 0.97(a) |
| 78 | tert-Butylbenzene | 119 | 9.336 | 9.336 (0.966) | 14794 | 1.00000 | 0.97(a) |

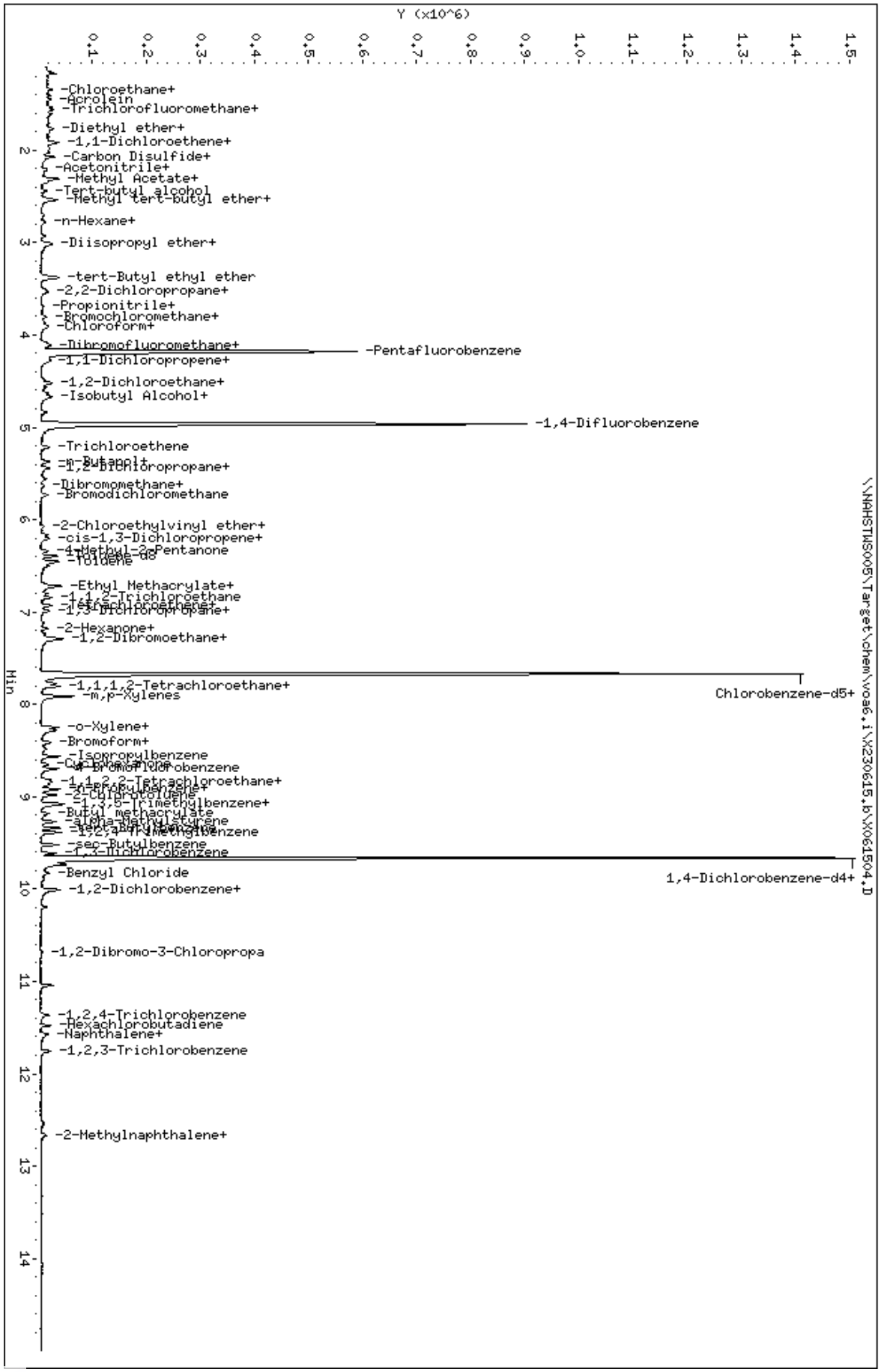
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 79 | 1,2,4-Trimethylbenzene | 105 | 9.384 | 9.377 | (0.971) | 18527 | 1.00000 | 1.00(a) |
| 81 | sec-Butylbenzene | 105 | 9.523 | 9.519 | (0.986) | 21044 | 1.00000 | 0.98(a) |
| 82 | p-Isopropyltoluene | 119 | 9.650 | 9.647 | (0.999) | 17481 | 1.00000 | 0.93(a) |
| 83 | 1,3-Dichlorobenzene | 146 | 9.613 | 9.602 | (0.995) | 11009 | 1.00000 | 1.00(a) |
| 84 | 1,4-Dichlorobenzene | 146 | 9.684 | 9.681 | (1.002) | 12708 | 1.00000 | 1.08(a) |
| 86 | Benzyl Chloride | 91 | 9.830 | 9.808 | (1.282) | 11104 | 1.00000 | 0.97(a) |
| 87 | n-Butylbenzene | 91 | 10.014 | 9.992 | (1.036) | 13132 | 1.00000 | 0.82(aM) |
| 88 | 1,2-Dichlorobenzene | 146 | 10.007 | 9.992 | (1.036) | 10599 | 1.00000 | 0.97(a) |
| 89 | 1,2-Dibromo-3-Chloropropane | 155 | 10.674 | 10.655 | (1.105) | 1184 | 1.00000 | 1.34(a) |
| 90 | 1,2,4-Trichlorobenzene | 180 | 11.364 | 11.334 | (1.176) | 7174 | 1.00000 | 0.94(a) |
| 91 | Hexachlorobutadiene | 225 | 11.476 | 11.476 | (1.188) | 3283 | 1.00000 | 0.96(a) |
| 92 | Naphthalene | 128 | 11.570 | 11.540 | (1.197) | 14944 | 1.00000 | 0.87(a) |
| 93 | 1,2,3-Trichlorobenzene | 180 | 11.750 | 11.739 | (1.216) | 6263 | 1.00000 | 0.90(a) |
| 146 | Methyl acetate | 43 | 2.258 | 2.232 | (0.540) | 2984 | 1.00000 | 1.05(a) |
| 138 | Freon TF | 101 | 1.921 | 1.917 | (0.459) | 3869 | 1.00000 | 1.20(a) |
| 141 | Cyclohexane | 56 | 4.121 | 4.121 | (0.986) | 5865 | 1.00000 | 0.96(aH) |
| 142 | Tetrahydrofuran | 42 | 3.863 | 3.844 | (0.924) | 1350 | 2.00000 | 1.94(aM) |
| 147 | Methylcyclohexane | 55 | 5.373 | 5.381 | (1.082) | 9209 | 1.00000 | 0.88(aM) |
| 135 | 1,4-Dioxane | 88 | 5.613 | 5.598 | (1.342) | 1286 | 20.0000 | 22.27(M) |
| 132 | n-Butanol | 56 | 5.370 | 5.253 | (1.284) | 2023 | 20.0000 | 80.30(aM) |
| 131 | Methyl Acrylate | 55 | 3.750 | 3.690 | (0.897) | 3465 | 1.00000 | 0.89(aM) |
| 133 | Ethyl Acrylate | 55 | 5.422 | 5.381 | (1.297) | 8042 | 1.00000 | 3.07(M) |
| 136 | n-Hexane | 57 | 2.775 | 2.776 | (0.664) | 4190 | 1.00000 | 0.77(a) |
| 139 | Diethyl ether | 59 | 1.767 | 1.760 | (0.423) | 3143 | 1.00000 | 1.05(a) |
| 148 | Tert-butyl alcohol | 59 | 2.442 | 2.431 | (0.584) | 11634 | 20.0000 | 23.78 |
| 149 | Isopropyl alcohol | 45 | 2.101 | 2.093 | (0.502) | 6463 | 20.0000 | 23.93(T) |
| 156 | Diisopropyl ether | 45 | 3.012 | 3.000 | (0.720) | 13921 | 1.00000 | 0.99(Ta) |
| 160 | 2-Methylnaphthalene | 142 | 12.668 | 12.634 | (1.311) | 6245 | 1.00000 | 0.83(a) |
| 166 | 1,2,3-Trimethylbenzene | 105 | 9.737 | 9.729 | (1.008) | 17649 | 1.00000 | 0.98(a) |
| 167 | Ethanol | 45 | 1.707 | 1.707 | (0.408) | 953 | 20.0000 | 20.92(M) |
| 172 | tert-Butyl formate | 59 | 4.627 | 4.612 | (1.107) | 8761 | 2.00000 | 2.23(aM) |
| 173 | 3,3-Dimethyl-1-butanol | 57 | 7.296 | 7.285 | (0.952) | 12186 | 20.0000 | 21.61(M) |
| 174 | tert-Amyl methyl ether | 73 | 4.669 | 4.665 | (1.117) | 15782 | 1.00000 | 1.03(aM) |
| 175 | tert-Butyl ethyl ether | 59 | 3.383 | 3.379 | (0.809) | 14971 | 1.00000 | 1.02(a) |
| 176 | tert-Amyl alcohol | 59 | 4.627 | 4.612 | (1.107) | 8761 | 20.0000 | 21.89(M) |
| 151 | 4-Methyl-2-pentanol | 45 | 6.719 | 6.708 | (1.353) | 26840 | 20.0000 | 22.73(M) |
| 180 | 1-Methylnaphthalene | 142 | 12.668 | 12.634 | (1.311) | 6245 | 1.00000 | (a) |
| 140 | 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.279) | 4172 | 1.00000 | 1.05(a) |
| 152 | Amyl alcohol | 42 | 6.981 | 6.899 | (0.911) | 2449 | 20.0000 | 19.06(M) |
| 158 | Dichlorofluoromethane | 67 | 1.531 | 1.535 | (0.366) | 6498 | 1.00000 | 0.94(M) |
| 159 | Propylene oxide | 43 | 1.812 | 1.805 | (0.433) | 1041 | 2.00000 | 2.46(a) |
| 161 | 3-Methyl-1-butanol | 55 | 6.951 | 6.899 | (0.907) | 2518 | 20.0000 | 53.71(M) |
| 162 | Butyl acrylate | 55 | 8.278 | 8.249 | (1.080) | 6899 | 1.00000 | 1.21(a) |
| 163 | Butyl methacrylate | 41 | 9.182 | 9.167 | (0.950) | 6113 | 1.00000 | 0.96(a) |
| 164 | Dicyclopentadiene | 66 | 9.680 | 9.681 | (1.002) | 21021 | 1.00000 | 0.99(aM) |
| 182 | Epichlorohydrin | 57 | 6.119 | 6.093 | (1.233) | 2012 | 4.00000 | 4.53(aM) |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 10510 | 2.00000 | (a) |
| 130 | Ethyl Acetate | 43 | 3.694 | 3.657 | (0.883) | 5317 | 1.00000 | 1.09(aM) |
| 134 | Cyclohexanone | 55 | 8.653 | 8.642 | (0.896) | 5123 | 20.0000 | 11.33(a) |
| 185 | Isoprene | 39 | 1.778 | 1.775 | (0.425) | 1889 | 1.00000 | 1.45(a) |
| 188 | Isopropyl acetate | 43 | 4.687 | 4.676 | (0.944) | 12045 | 1.00000 | 0.93(a) |
| 187 | n-Amyl acetate | 43 | 8.477 | 8.451 | (1.106) | 10084 | 1.00000 | 1.09(aM) |

| | | | | | | |
|---|---|---|---|---|---|---|
| 189 n-Butyl acetate | 43 | 7.233 | 7.210 (0.943) | 7115 | 1.00000 | 0.96(aM) |
| 150 Allyl alcohol | 57 | 2.775 | 2.772 (0.664) | 4190 | 20.0000 | 14.15 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| 195 Methyl Amyl Ketone | 43 | 8.410 | 8.380 | (1.097) | 8974 | 1.00000 | 0.88(a) |
| 200 Dimethyl Disulfide | 94 | 6.202 | 6.194 | (0.809) | 9210 | 1.00000 | 0.90(a) |
| 202 Isobutylene | 41 | 1.242 | 1.242 | (0.297) | 500 | 1.00000 | 1.09(aM) |
| 205 2-Ethylhexyl Acrylate | 55 | 11.577 | 11.544 | (1.198) | 3400 | 1.00000 | 1.74(aM) |

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.




Data File: \\NAHSTWS005\Target\chem\voa6,i\X230615,b\X061504,D
Date : 15-JUN-2023 12:18
Client ID: VSTD001
Sample Info: VSTD001;VSTD001;1;3;
Purge Volume: 5.0
Column phase: DB624

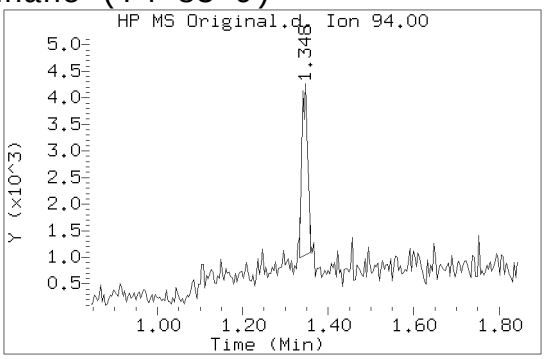
Instrument: voa6,i
Operator: PC
Column diameter: 0.18

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LabSampID : VSTD001

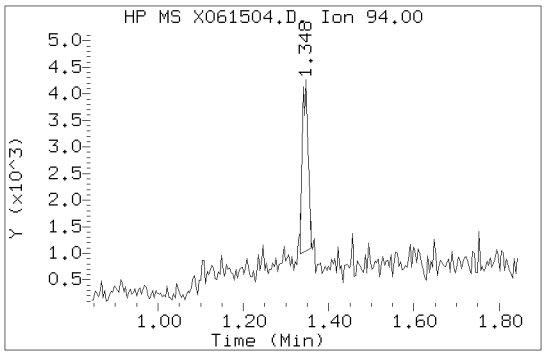
## Bromomethane (74-83-9)

Reason Code:

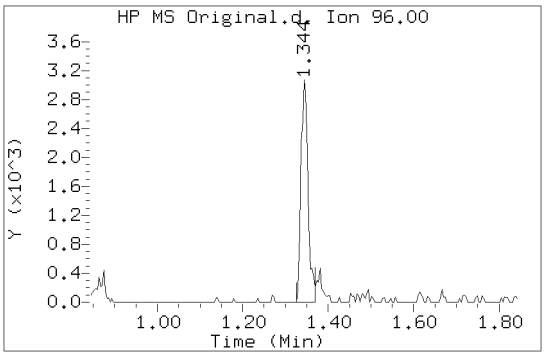
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20-Jun-2023
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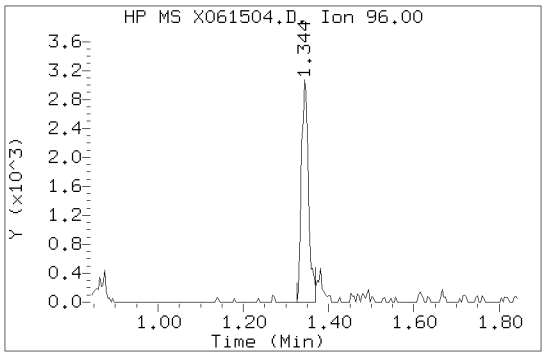

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BEFORE
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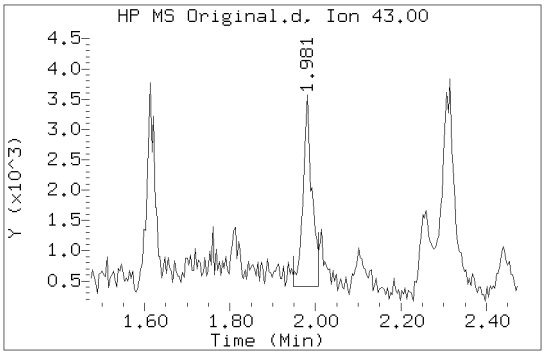

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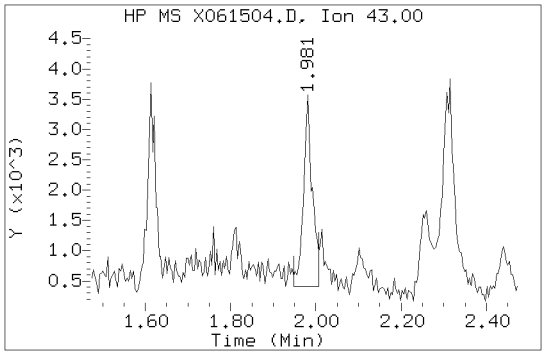

## Acetone (67-64-1)

Reason Code:

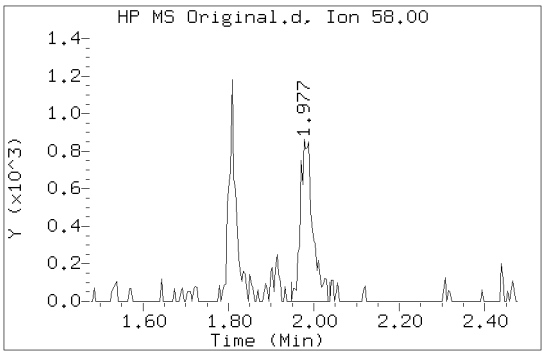
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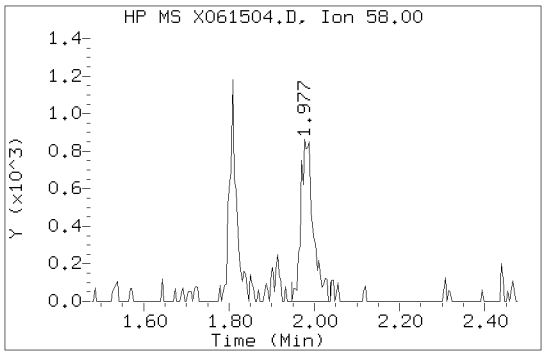

AFTER
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BEFORE
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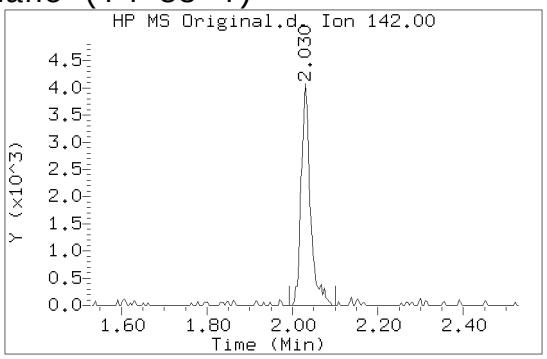
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Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

## Iodomethane (74-88-4)

Reason Code:

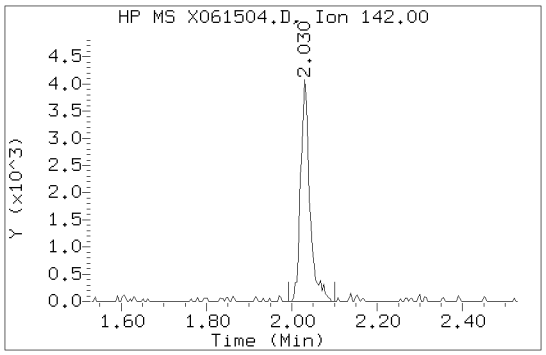
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20-Jun-2023
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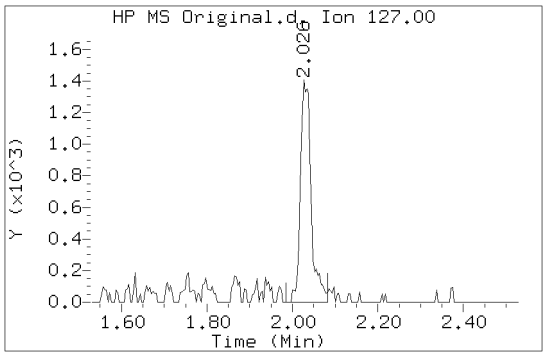

**AFTER**

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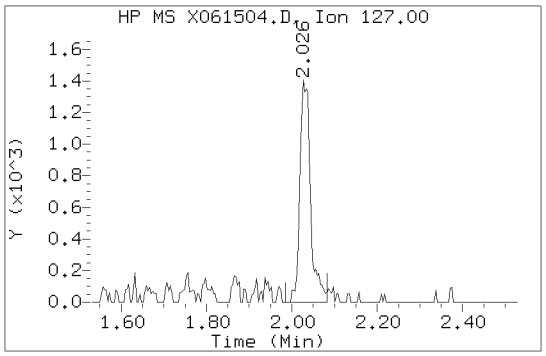

**BEFORE**

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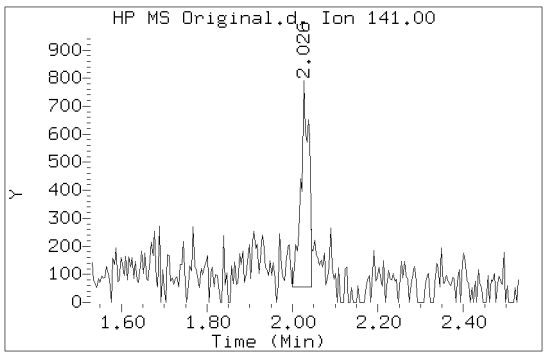

**AFTER**

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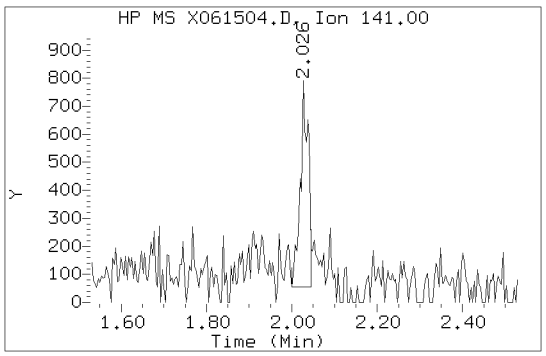

**BEFORE**

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**AFTER**

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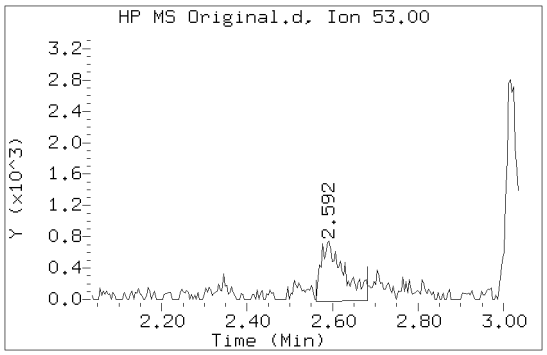



## Acrylonitrile (107-13-1)

Reason Code:

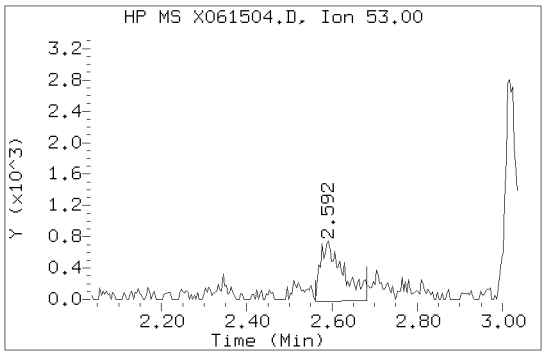
**BEFORE**

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20-Jun-2023
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**AFTER**

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20-Jun-2023
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linh
pham

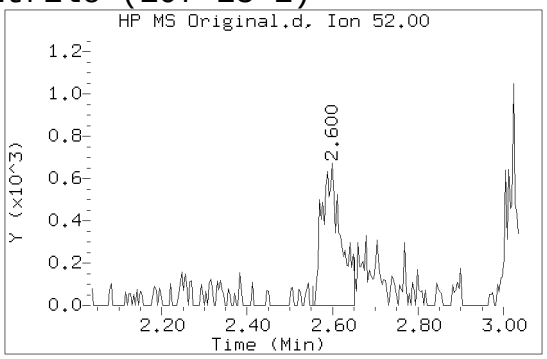


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LabSampID : VSTD001

## Acrylonitrile (107-13-1)

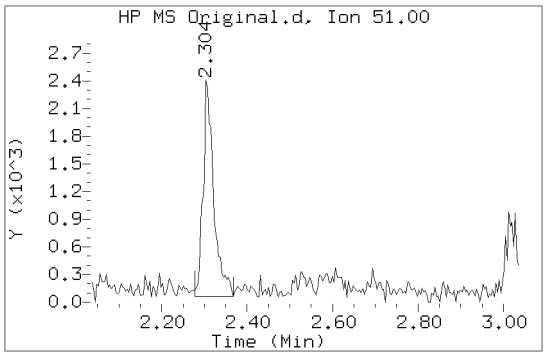
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linh
pham




### BEFORE

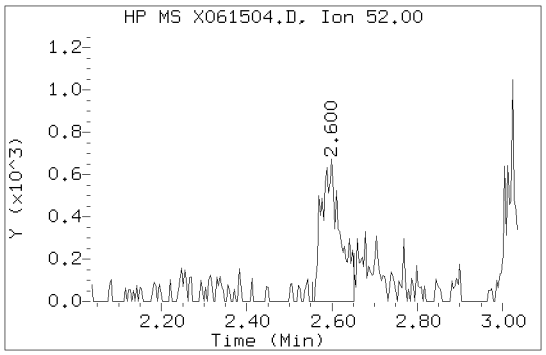
MASS
51
AREA
4036
HEIGHT
2345
20-Jun-2023
18:22
linh
pham




### Reason Code:

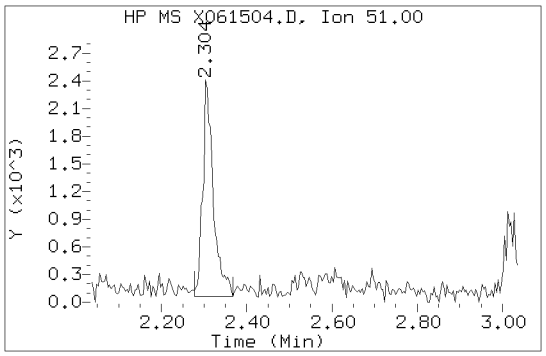
### AFTER

MASS
52
AREA
2033
HEIGHT
674
20-Jun-2023
18:22
linh
pham




### AFTER

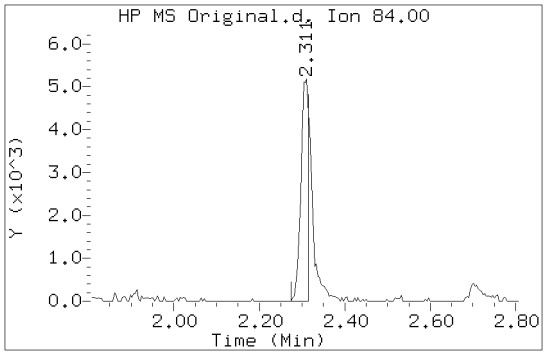
MASS
51
AREA
4036
HEIGHT
2345
20-Jun-2023
18:22
linh
pham




## Methylene Chloride (75-09-2)

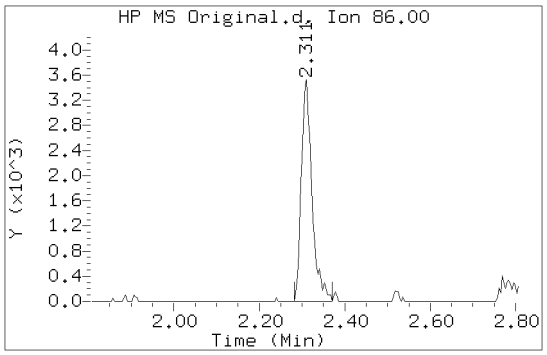
### BEFORE

MASS
84
AREA
6477
HEIGHT
5184
20-Jun-2023
18:22
linh
pham




### BEFORE

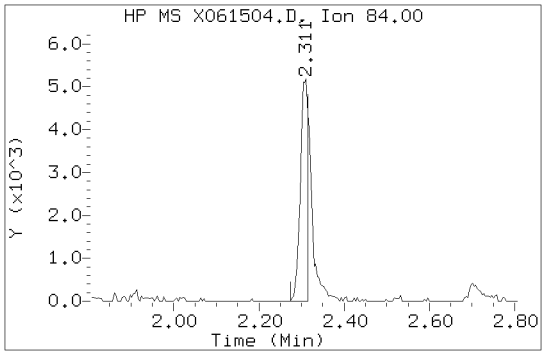
MASS
86
AREA
6276
HEIGHT
3527
20-Jun-2023
18:22
linh
pham




### Reason Code:

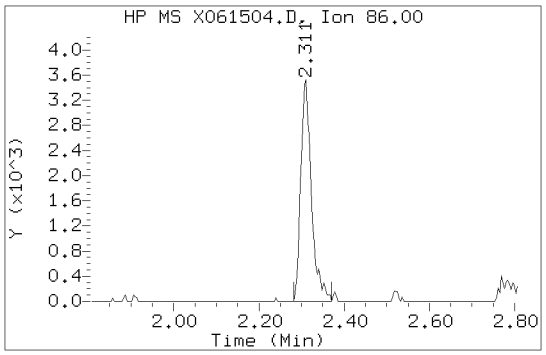
### AFTER

MASS
84
AREA
6477
HEIGHT
5184
20-Jun-2023
18:22
linh
pham




### AFTER

MASS
86
AREA
6276
HEIGHT
3527
20-Jun-2023
18:22
linh
pham



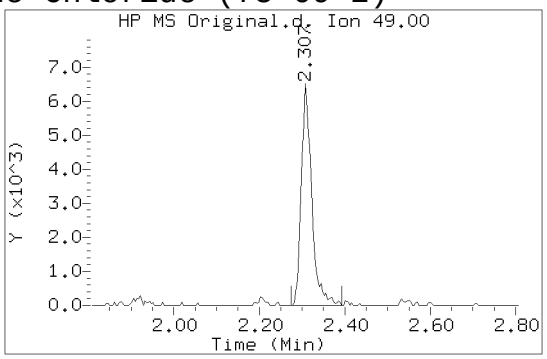
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D
Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

## Methylene Chloride (75-09-2)

Reason Code:

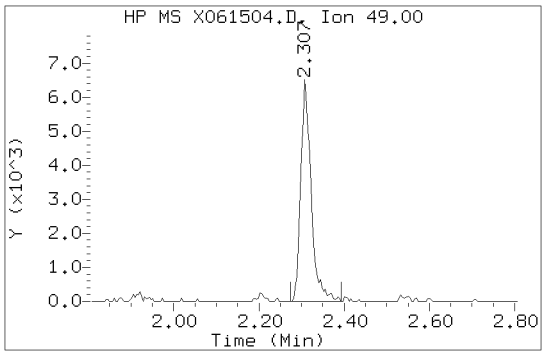
BEFORE

MASS
49
AREA
11339
HEIGHT
6517
20-Jun-2023
18:22
linh
pham




AFTER

MASS
49
AREA
11339
HEIGHT
6517
20-Jun-2023
18:22
linh
pham

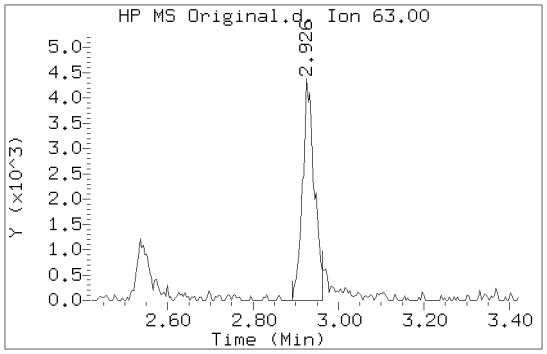



## 1,1-Dichloroethane (75-34-3)

Reason Code:

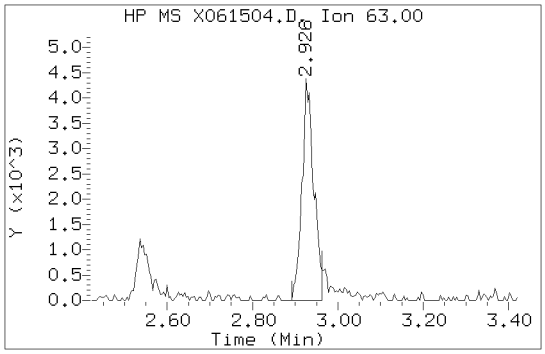
BEFORE

MASS
63
AREA
8535
HEIGHT
4383
20-Jun-2023
18:22
linh
pham



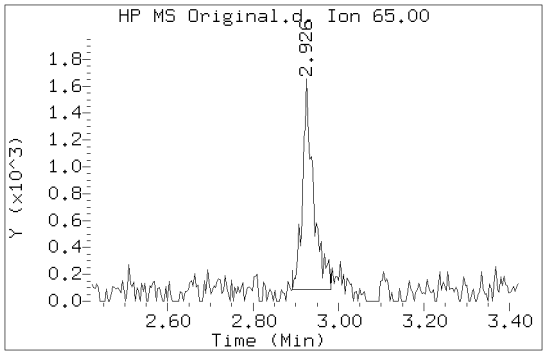

AFTER

MASS
63
AREA
8535
HEIGHT
4383
20-Jun-2023
18:22
linh
pham



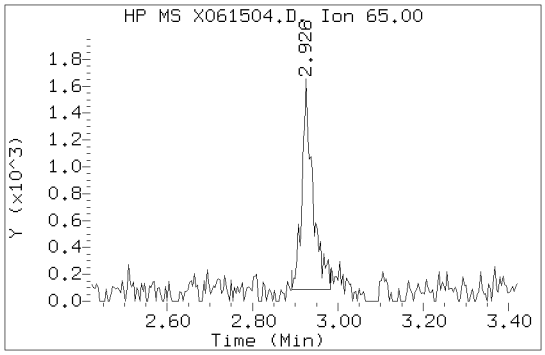

BEFORE

MASS
65
AREA
2816
HEIGHT
1567
20-Jun-2023
18:22
linh
pham



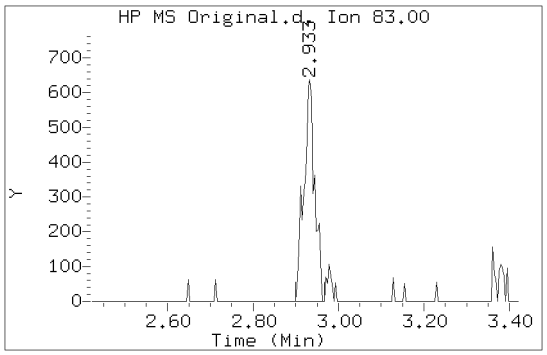

AFTER

MASS
65
AREA
2816
HEIGHT
1567
20-Jun-2023
18:22
linh
pham



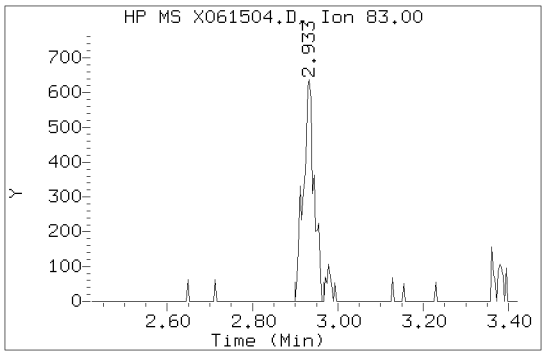

BEFORE

MASS
83
AREA
1137
HEIGHT
637
20-Jun-2023
18:22
linh
pham




AFTER

MASS
83
AREA
1137
HEIGHT
637
20-Jun-2023
18:22
linh
pham

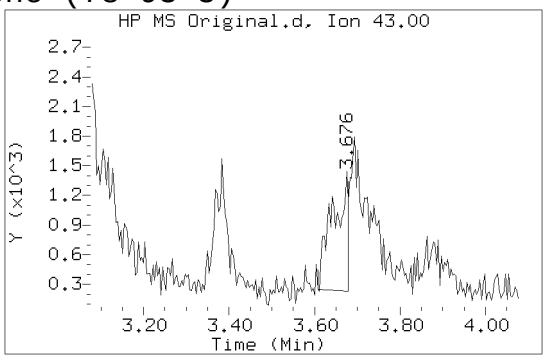


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D
Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

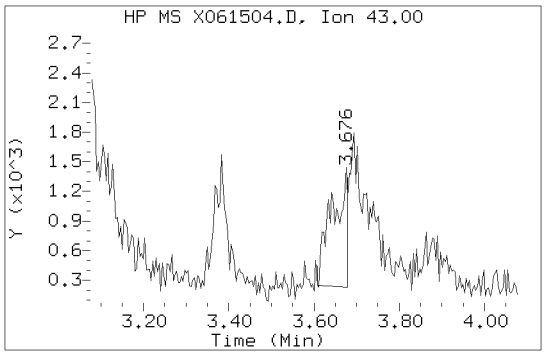
## 2-Butanone (78-93-3)

Reason Code:

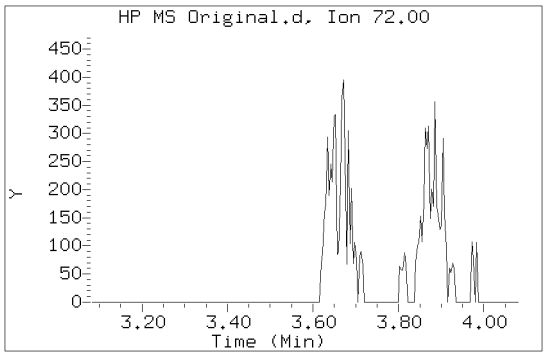
BEFORE
MASS
43
AREA
2970
HEIGHT
1211
20-Jun-2023
18:22
linh
pham



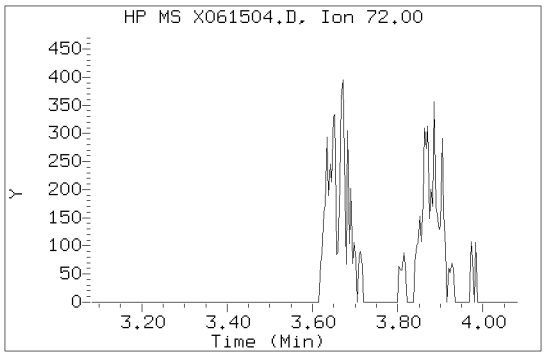

AFTER
MASS
43
AREA
2970
HEIGHT
1211
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
72
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



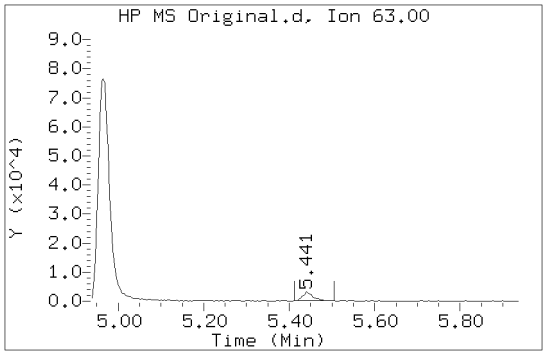

AFTER
MASS
72
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



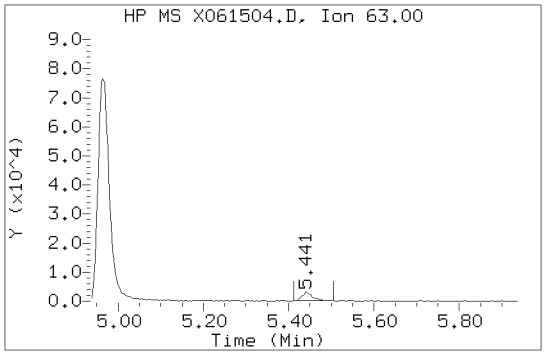

## 1,2-Dichloropropane (78-87-5)

Reason Code:

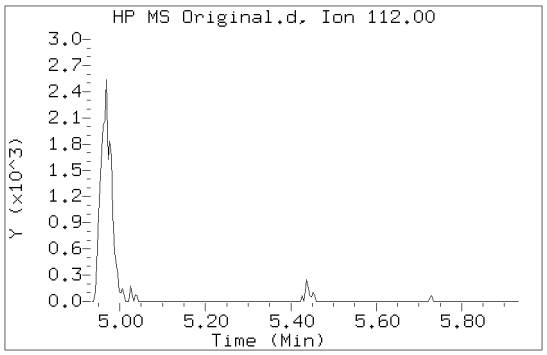
BEFORE
MASS
63
AREA
4954
HEIGHT
3161
20-Jun-2023
18:22
linh
pham



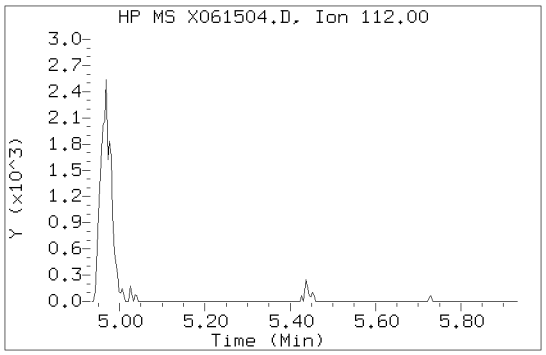

AFTER
MASS
63
AREA
4954
HEIGHT
3161
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
112
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER
MASS
112
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



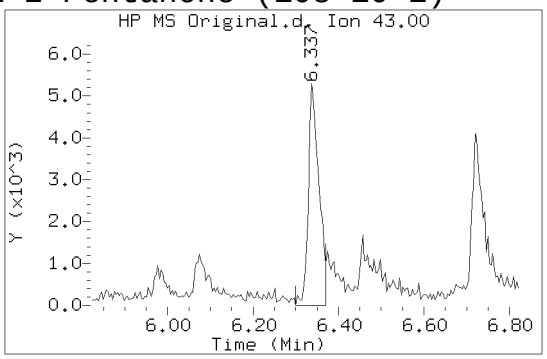
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D
Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

## 4-Methyl-2-Pentanone (108-10-1)

Reason Code:

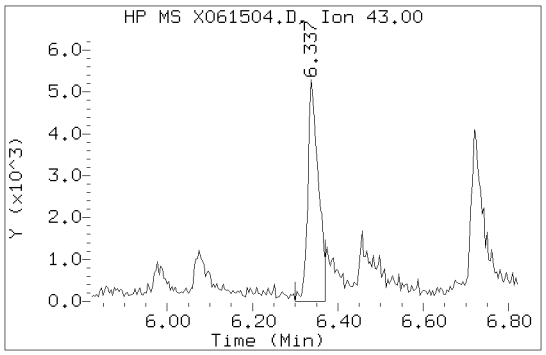
BEFORE

MASS
43
AREA
9202
HEIGHT
5295
20-Jun-2023
18:22
linh
pham



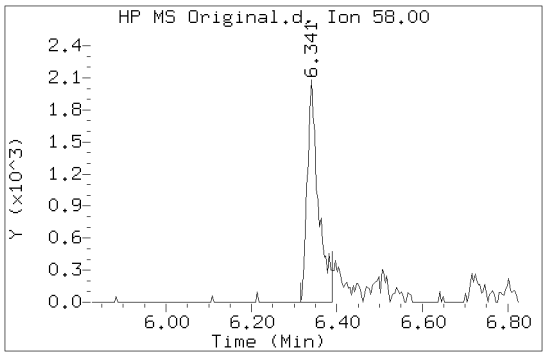

AFTER

MASS
43
AREA
9202
HEIGHT
5295
20-Jun-2023
18:22
linh
pham



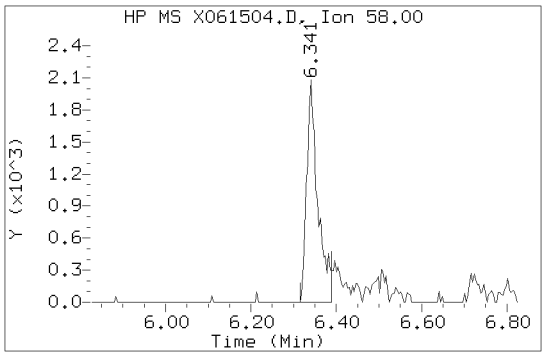

BEFORE

MASS
58
AREA
3808
HEIGHT
2081
20-Jun-2023
18:22
linh
pham



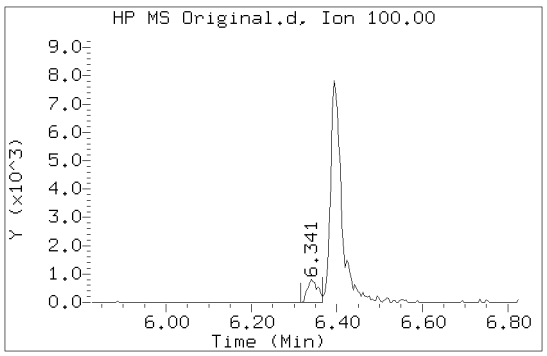

AFTER

MASS
58
AREA
3808
HEIGHT
2081
20-Jun-2023
18:22
linh
pham



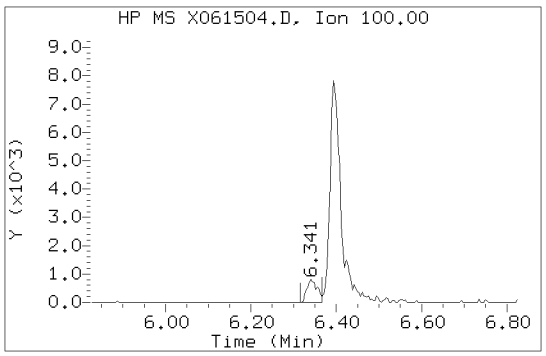

BEFORE

MASS
100
AREA
1400
HEIGHT
812
20-Jun-2023
18:22
linh
pham




AFTER

MASS
100
AREA
1400
HEIGHT
812
20-Jun-2023
18:22
linh
pham

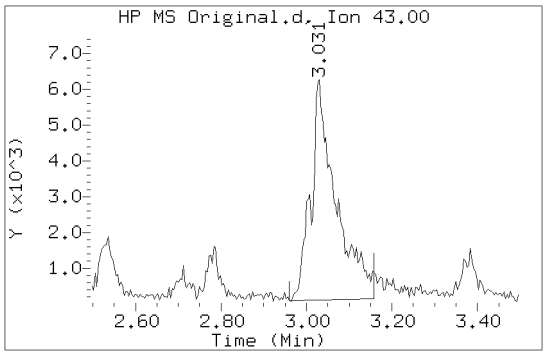



## Vinyl Acetate (108-05-4)

Reason Code:

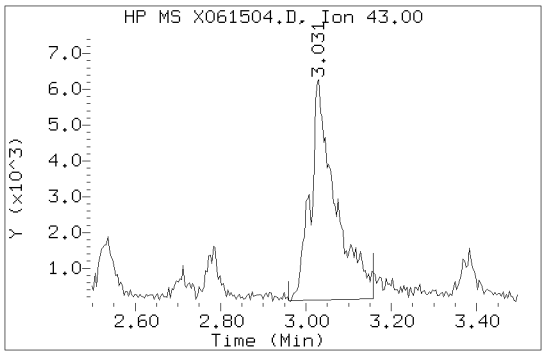
BEFORE

MASS
43
AREA
25154
HEIGHT
6147
20-Jun-2023
18:22
linh
pham




AFTER

MASS
43
AREA
25154
HEIGHT
6147
20-Jun-2023
18:22
linh
pham



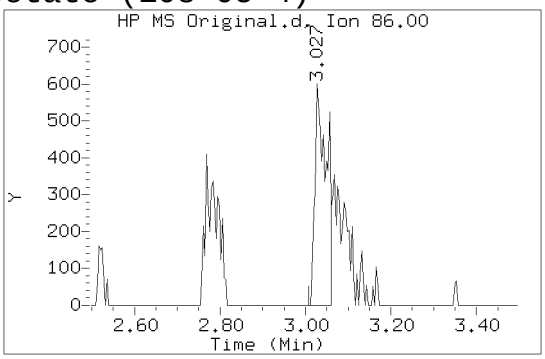
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D
Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

## Vinyl Acetate (108-05-4)

Reason Code:

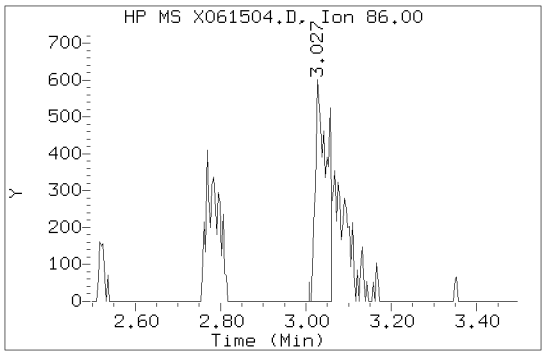
BEFORE

MASS
86
AREA
1128
HEIGHT
601
20-Jun-2023
18:22
linh
pham




AFTER

MASS
86
AREA
1128
HEIGHT
601
20-Jun-2023
18:22
linh
pham

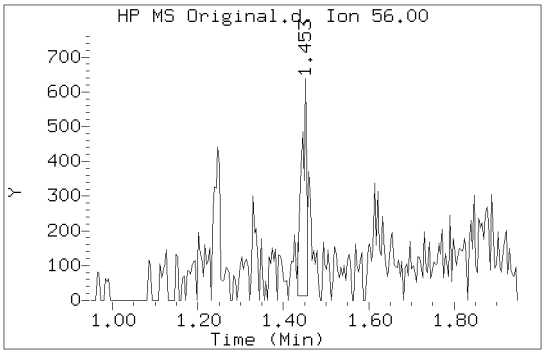



## Acrolein (107-02-8 )

Reason Code:

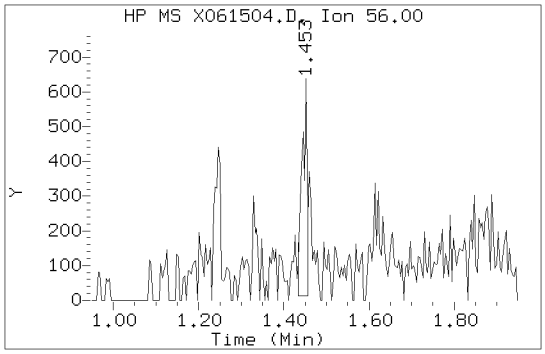
BEFORE

MASS
56
AREA
538
HEIGHT
626
20-Jun-2023
18:22
linh
pham



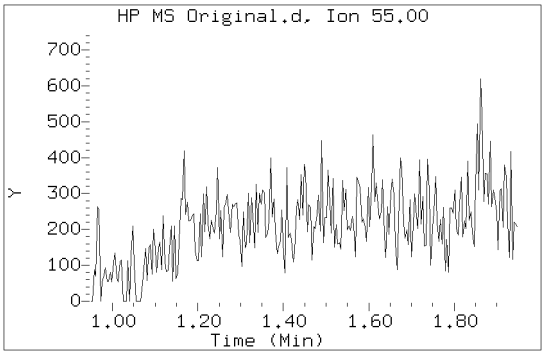

AFTER

MASS
56
AREA
538
HEIGHT
626
20-Jun-2023
18:22
linh
pham



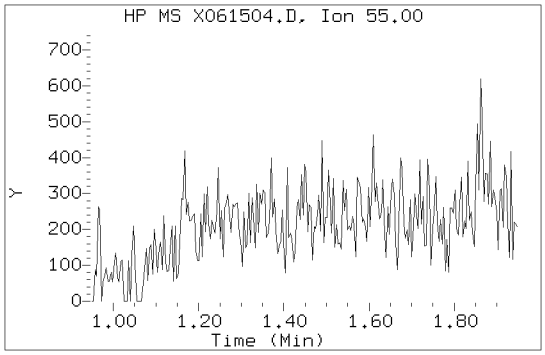

BEFORE

MASS
55
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER

MASS
55
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

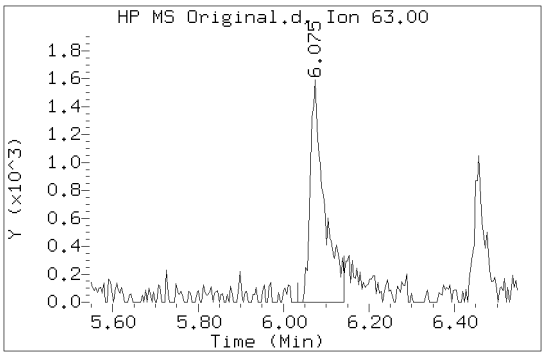



## 2-Chloroethylvinyl ether (110-75-8)

Reason Code:

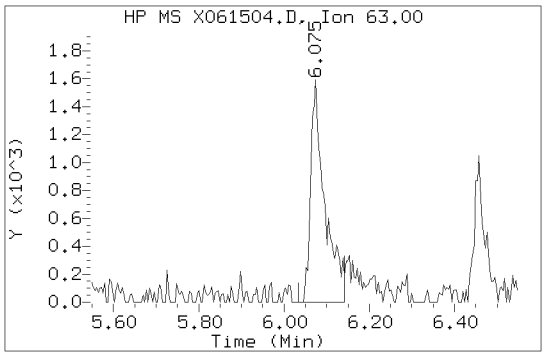
BEFORE

MASS
63
AREA
3674
HEIGHT
1592
20-Jun-2023
18:22
linh
pham




AFTER

MASS
63
AREA
3674
HEIGHT
1592
20-Jun-2023
18:22
linh
pham



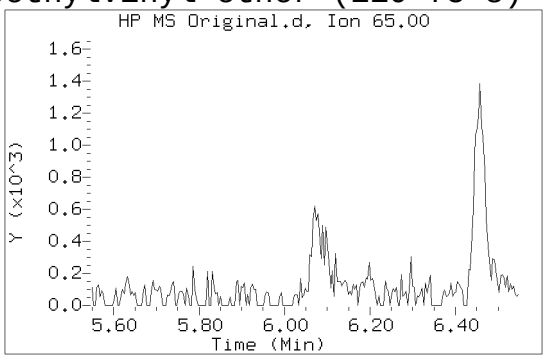
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D
Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

## 2-Chloroethylvinyl ether (110-75-8)

Reason Code:

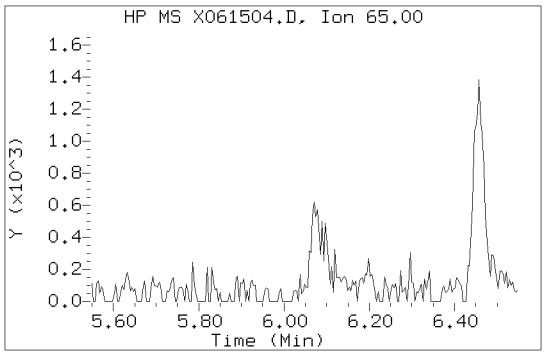
BEFORE

MASS
65
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



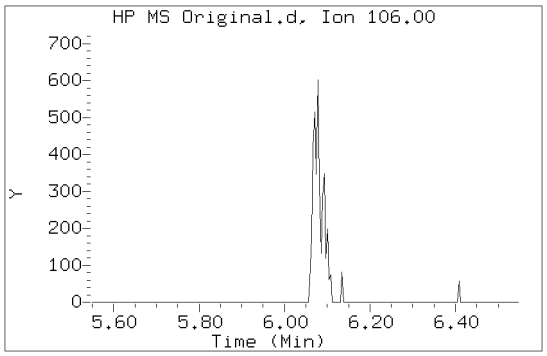

AFTER

MASS
65
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



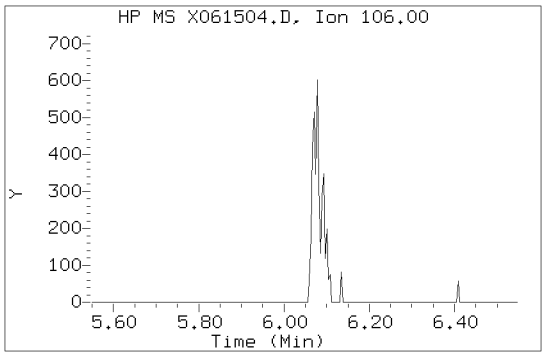

BEFORE

MASS
106
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER

MASS
106
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

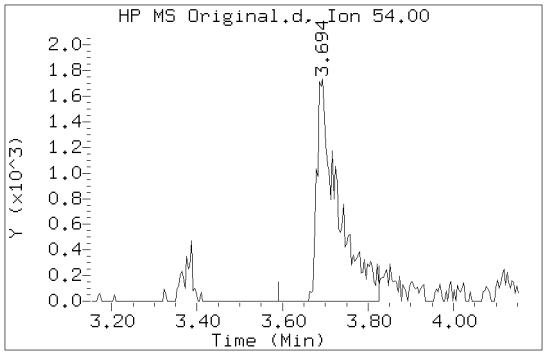



## Propionitrile (107-12-0)

Reason Code:

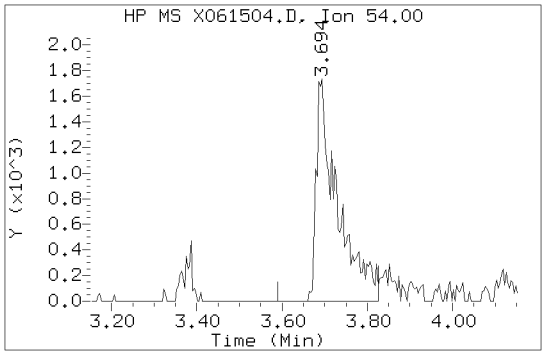
BEFORE

MASS
54
AREA
5974
HEIGHT
1735
20-Jun-2023
18:22
linh
pham



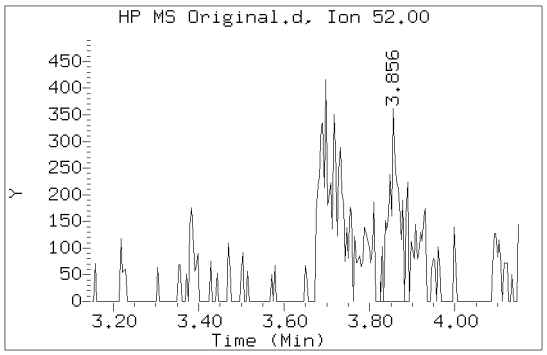

AFTER

MASS
54
AREA
5974
HEIGHT
1735
20-Jun-2023
18:22
linh
pham



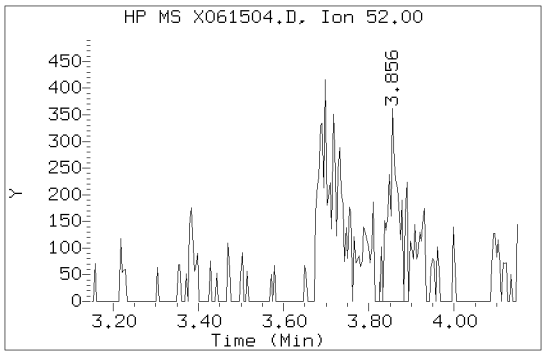

BEFORE

MASS
52
AREA
648
HEIGHT
362
20-Jun-2023
18:22
linh
pham




AFTER

MASS
52
AREA
648
HEIGHT
362
20-Jun-2023
18:22
linh
pham



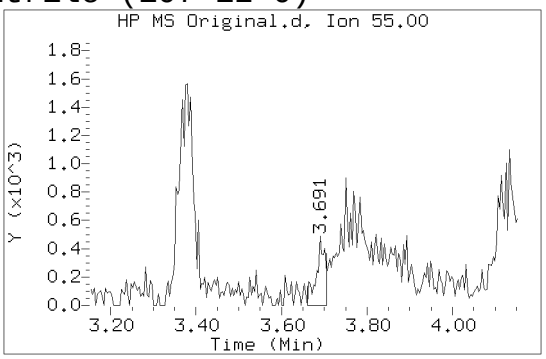
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D
Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

## Propionitrile (107-12-0)

Reason Code:

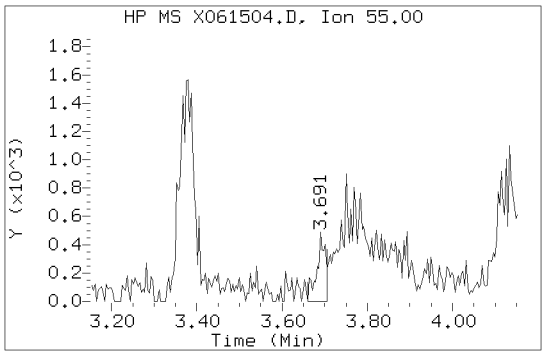
BEFORE

MASS
55
AREA
674
HEIGHT
489
20-Jun-2023
18:22
linh
pham




AFTER

MASS
55
AREA
674
HEIGHT
489
20-Jun-2023
18:22
linh
pham

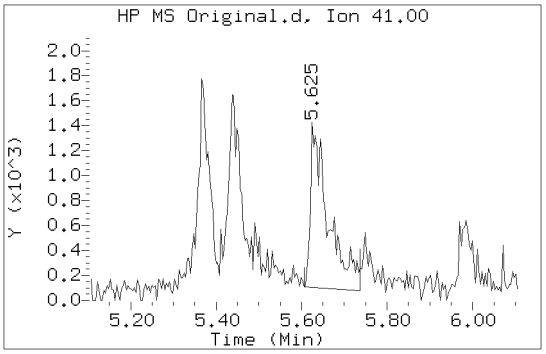



## Methyl Methacrylate (80-62-6)

Reason Code:

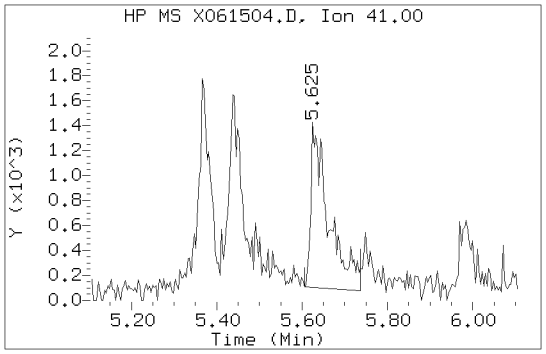
BEFORE

MASS
41
AREA
3817
HEIGHT
1324
20-Jun-2023
18:22
linh
pham



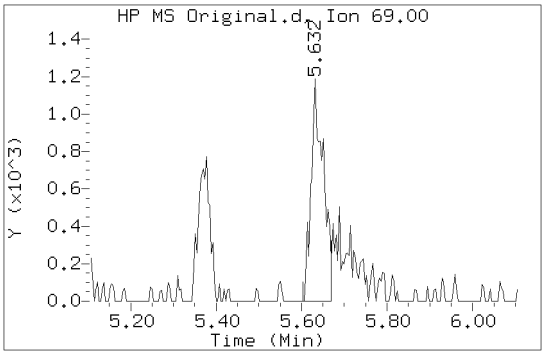

AFTER

MASS
41
AREA
3817
HEIGHT
1324
20-Jun-2023
18:22
linh
pham



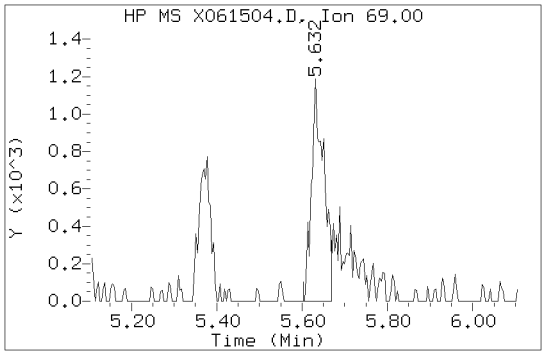

BEFORE

MASS
69
AREA
2379
HEIGHT
1188
20-Jun-2023
18:22
linh
pham



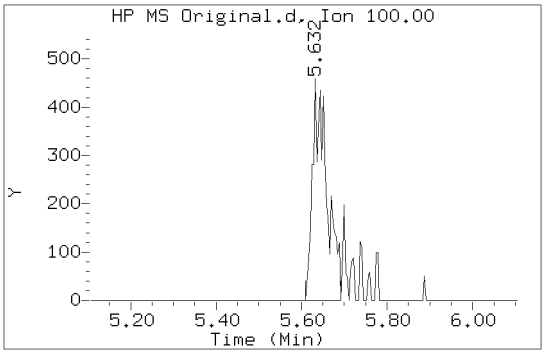

AFTER

MASS
69
AREA
2379
HEIGHT
1188
20-Jun-2023
18:22
linh
pham



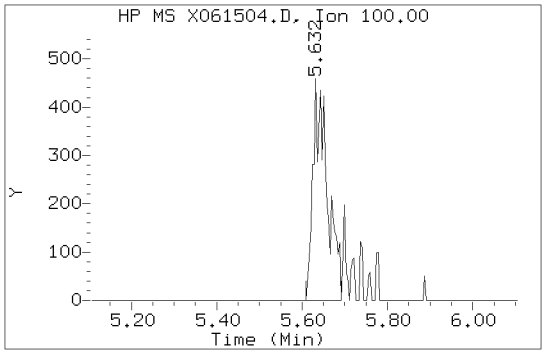

BEFORE

MASS
100
AREA
1063
HEIGHT
459
20-Jun-2023
18:22
linh
pham




AFTER

MASS
100
AREA
1063
HEIGHT
459
20-Jun-2023
18:22
linh
pham



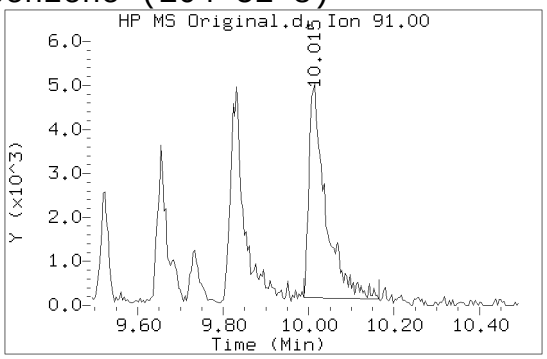
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D
Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

## n-Butylbenzene (104-51-8)

Reason Code:

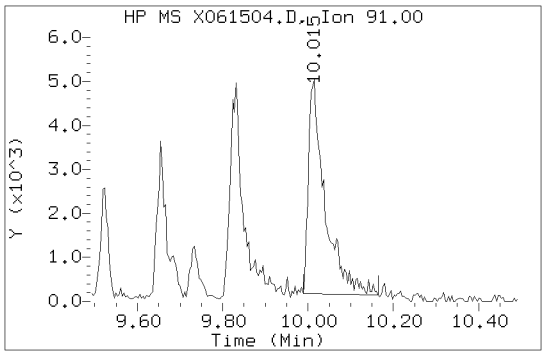
BEFORE

MASS
91
AREA
13132
HEIGHT
4870
20-Jun-2023
18:22
linh
pham



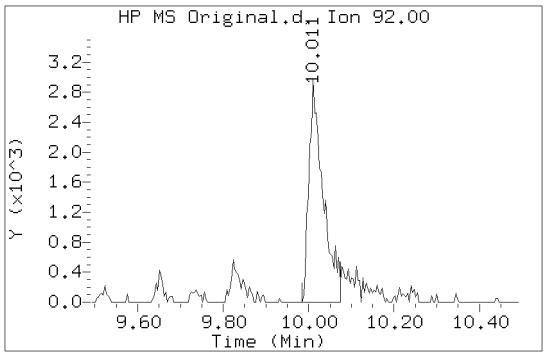

AFTER

MASS
91
AREA
13132
HEIGHT
4870
20-Jun-2023
18:22
linh
pham



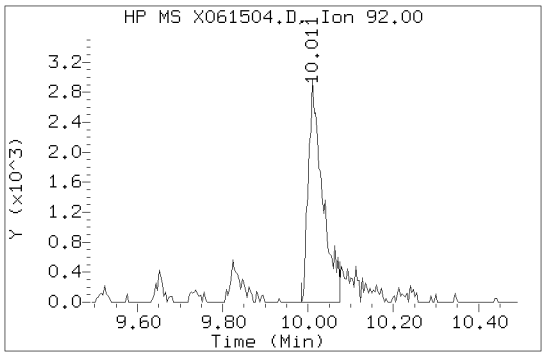

BEFORE

MASS
92
AREA
6834
HEIGHT
2964
20-Jun-2023
18:22
linh
pham



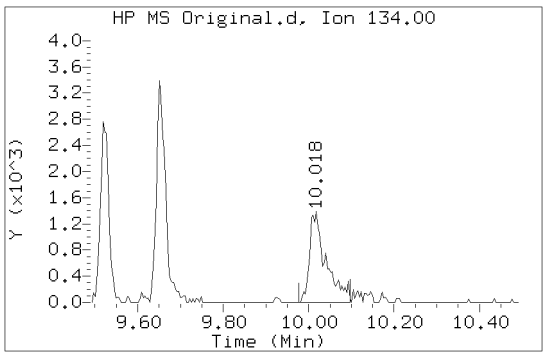

AFTER

MASS
92
AREA
6834
HEIGHT
2964
20-Jun-2023
18:22
linh
pham



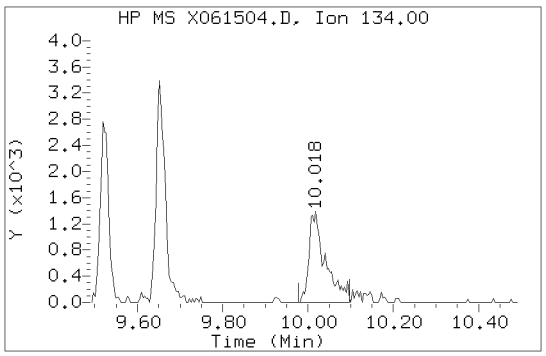

BEFORE

MASS
134
AREA
3724
HEIGHT
1389
20-Jun-2023
18:22
linh
pham




AFTER

MASS
134
AREA
3724
HEIGHT
1389
20-Jun-2023
18:22
linh
pham

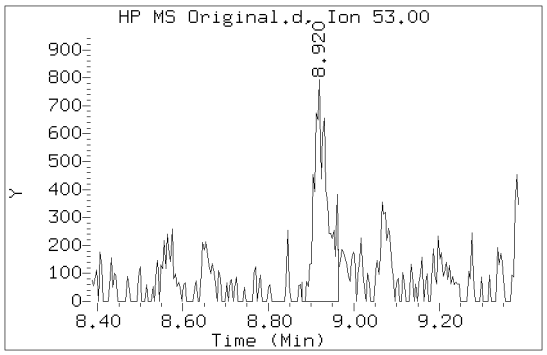



## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

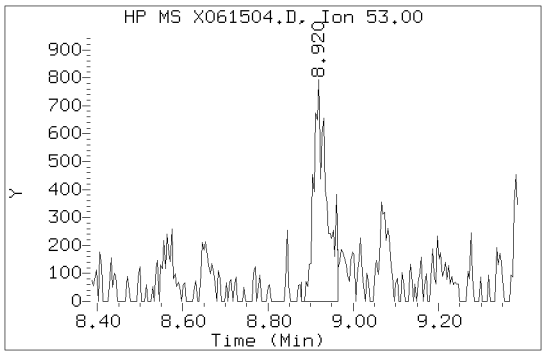
BEFORE

MASS
53
AREA
1668
HEIGHT
793
20-Jun-2023
18:22
linh
pham




AFTER

MASS
53
AREA
1668
HEIGHT
793
20-Jun-2023
18:22
linh
pham



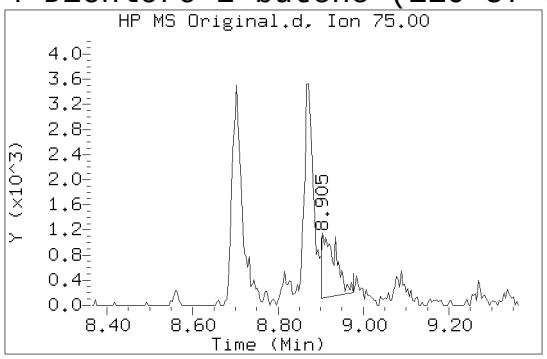
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D
Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

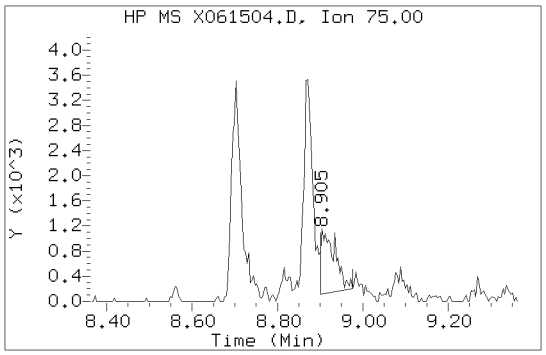
**BEFORE**

MASS
75
AREA
2315
HEIGHT
1032
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
75
AREA
2315
HEIGHT
1032
20-Jun-2023
18:22
linh
pham

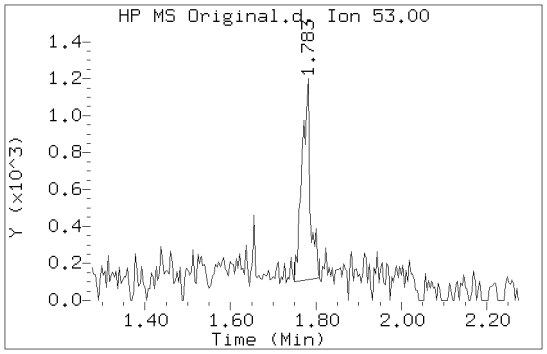



## Chloroprene (126-99-8)

Reason Code:

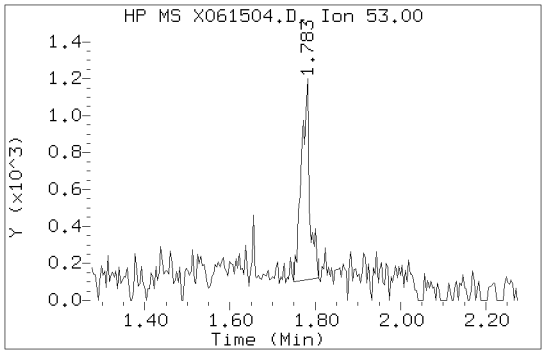
**BEFORE**

MASS
53
AREA
1506
HEIGHT
1087
20-Jun-2023
18:22
linh
pham



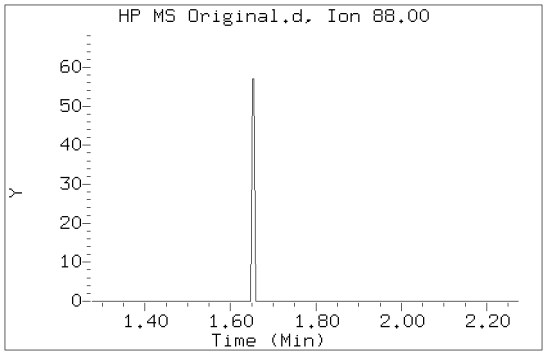

**AFTER**

MASS
53
AREA
1506
HEIGHT
1087
20-Jun-2023
18:22
linh
pham



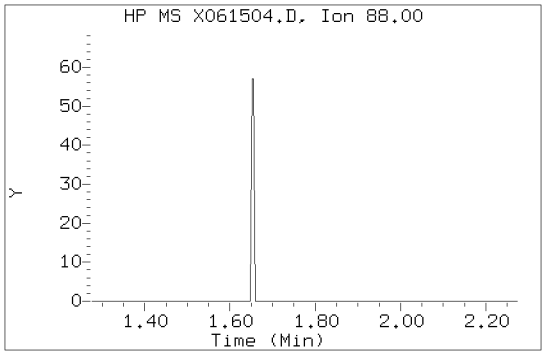

**BEFORE**

MASS
88
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
88
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

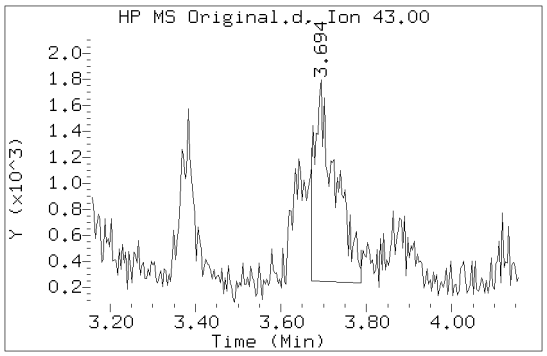



## Ethyl Acetate (141-78-6)

Reason Code:

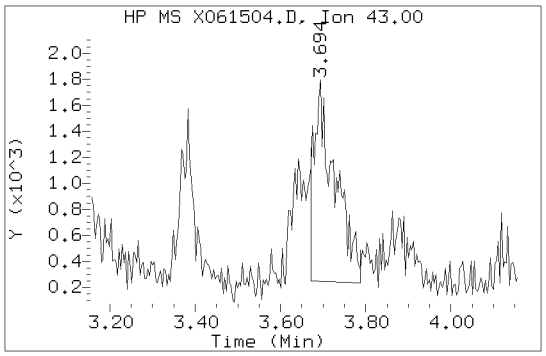
**BEFORE**

MASS
43
AREA
5317
HEIGHT
1547
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
43
AREA
5317
HEIGHT
1547
20-Jun-2023
18:22
linh
pham



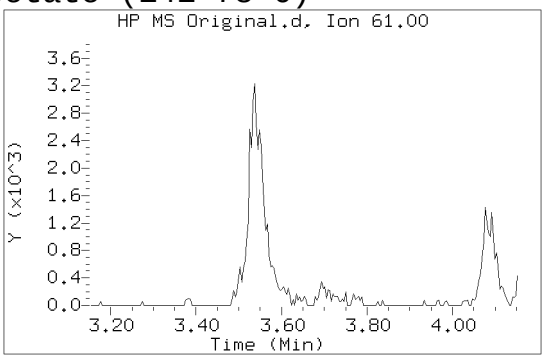
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D
Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

## Ethyl Acetate (141-78-6)

Reason Code:

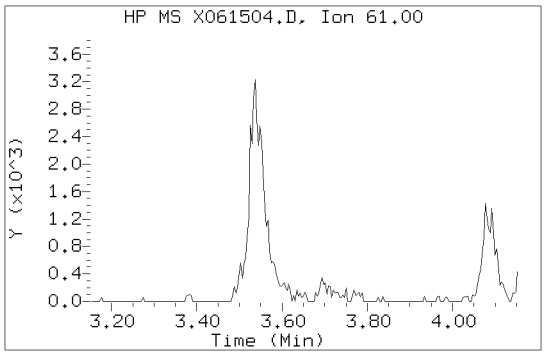
**BEFORE**

MASS
61
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



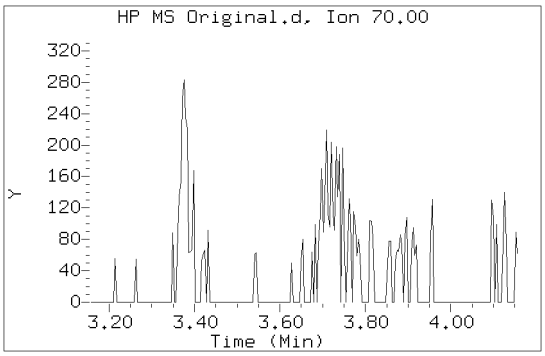

**AFTER**

MASS
61
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



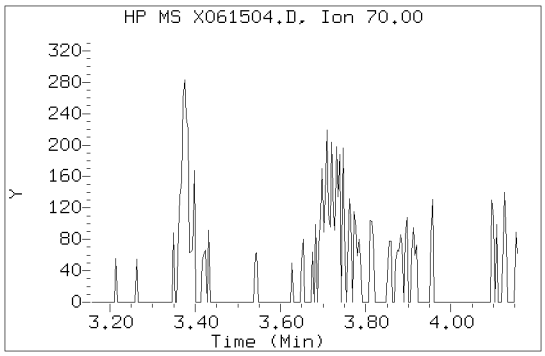

**BEFORE**

MASS
70
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
70
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

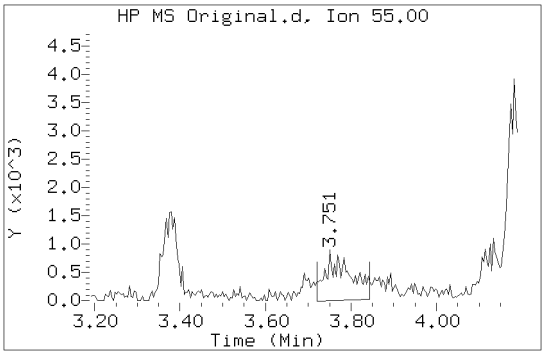



## Methyl Acrylate (96-33-3)

Reason Code:

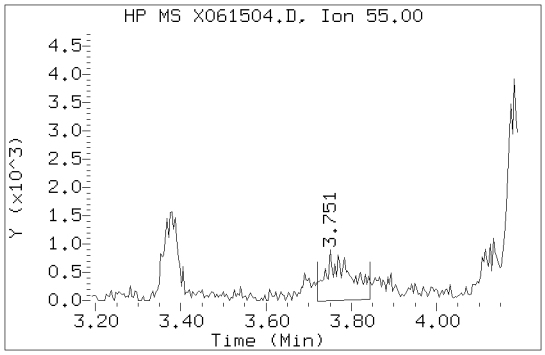
**BEFORE**

MASS
55
AREA
3465
HEIGHT
896
20-Jun-2023
18:22
linh
pham



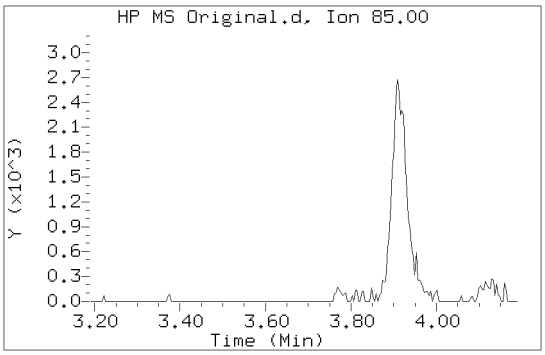

**AFTER**

MASS
55
AREA
3465
HEIGHT
896
20-Jun-2023
18:22
linh
pham



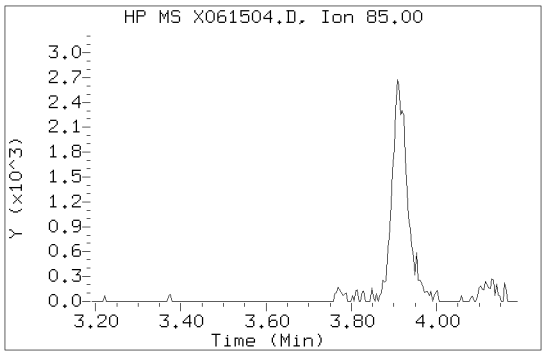

**BEFORE**

MASS
85
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
85
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

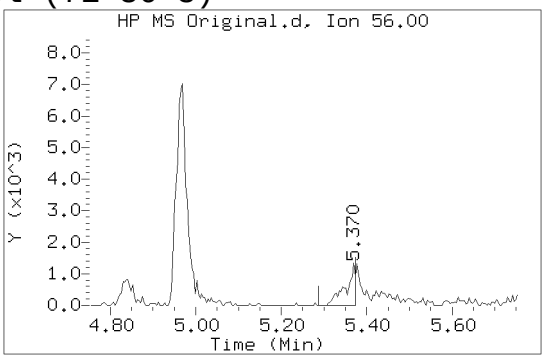


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D
Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

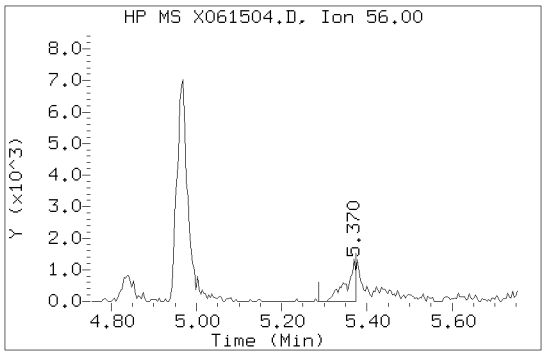
## n-Butanol (71-36-3)

Reason Code:

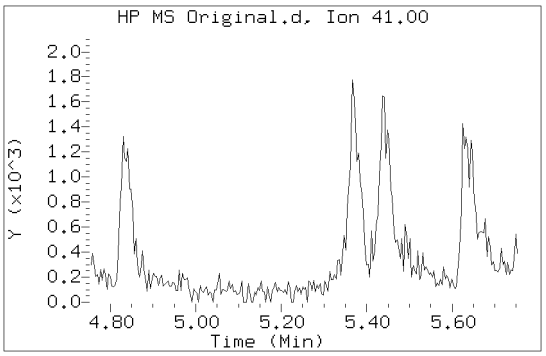
BEFORE
MASS
56
AREA
2023
HEIGHT
1343
20-Jun-2023
18:22
linh
pham



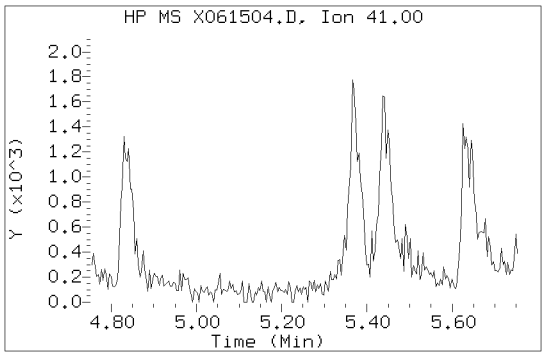

AFTER
MASS
56
AREA
2023
HEIGHT
1343
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



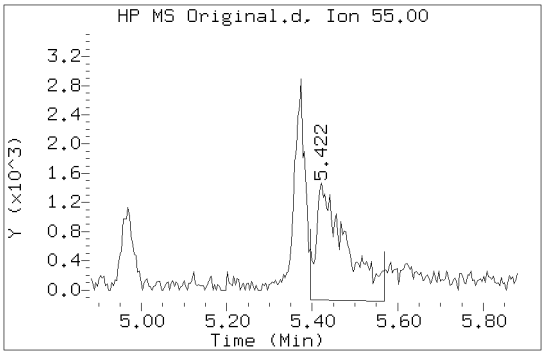

AFTER
MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



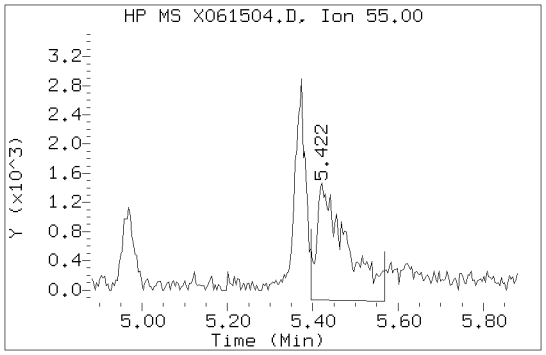

## Ethyl Acrylate (140-88-5)

Reason Code:

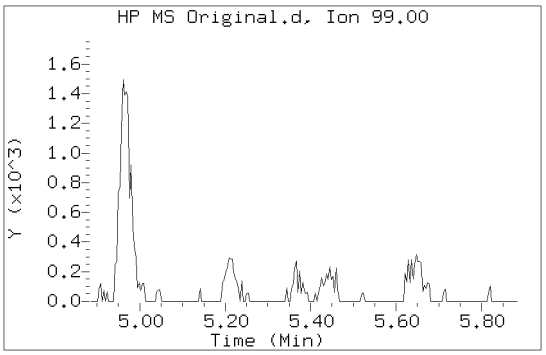
BEFORE
MASS
55
AREA
8042
HEIGHT
1606
20-Jun-2023
18:22
linh
pham



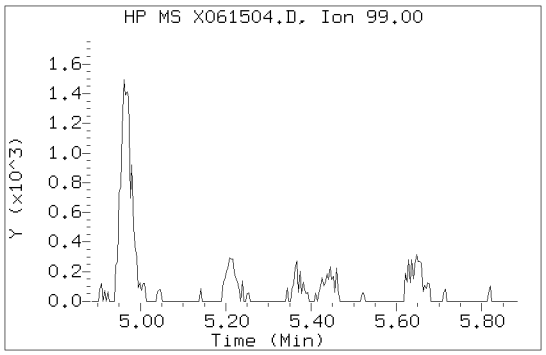

AFTER
MASS
55
AREA
8042
HEIGHT
1606
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
99
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER
MASS
99
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

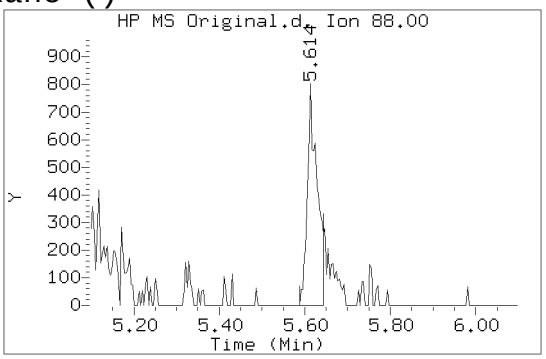


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Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

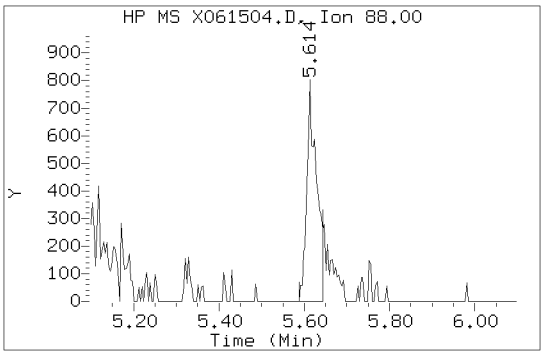
## 1,4-Dioxane ()

Reason Code:

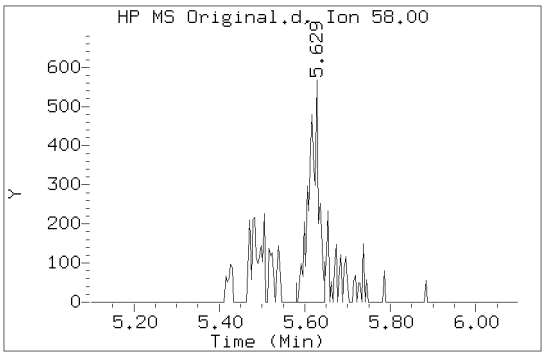
BEFORE
MASS
88
AREA
1286
HEIGHT
803
20-Jun-2023
18:22
linh
pham



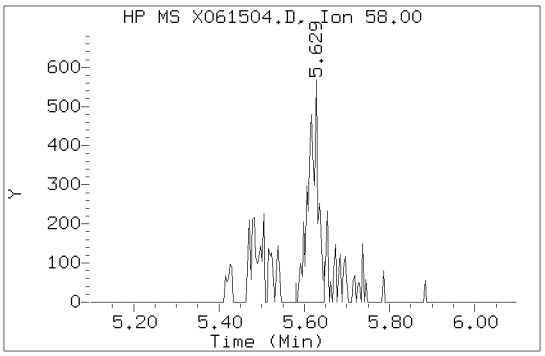

AFTER
MASS
88
AREA
1286
HEIGHT
803
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
58
AREA
874
HEIGHT
568
20-Jun-2023
18:22
linh
pham



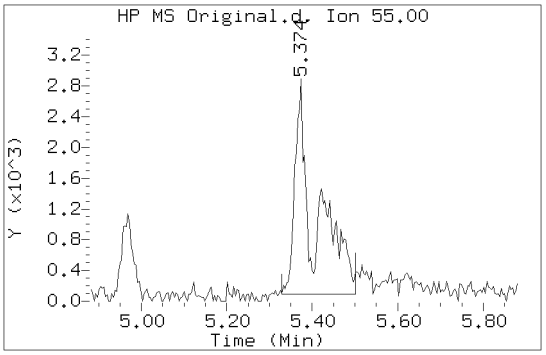

AFTER
MASS
58
AREA
874
HEIGHT
568
20-Jun-2023
18:22
linh
pham



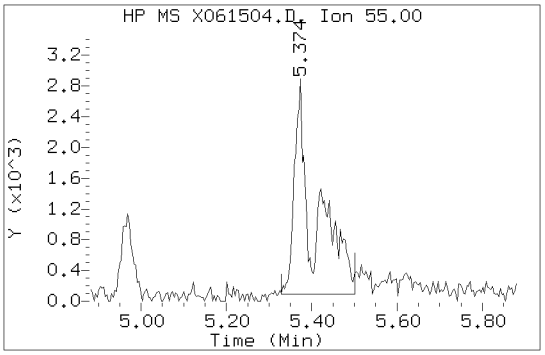

## Methylcyclohexane (108-87-2)

Reason Code:

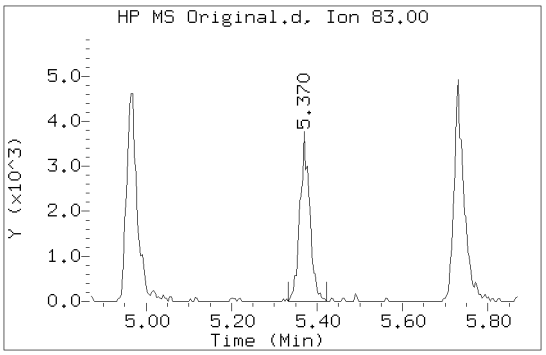
BEFORE
MASS
55
AREA
9209
HEIGHT
2801
20-Jun-2023
18:22
linh
pham



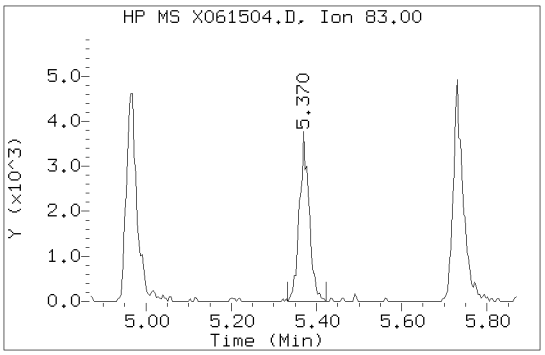

AFTER
MASS
55
AREA
9209
HEIGHT
2801
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
83
AREA
6088
HEIGHT
3776
20-Jun-2023
18:22
linh
pham




AFTER
MASS
83
AREA
6088
HEIGHT
3776
20-Jun-2023
18:22
linh
pham

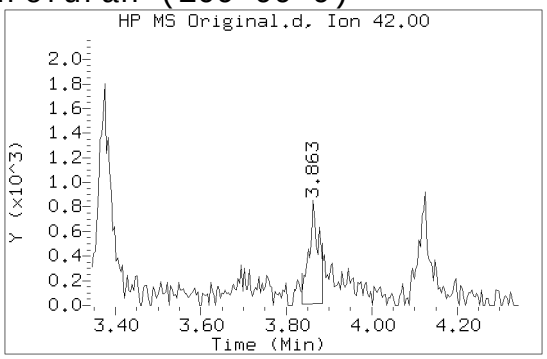


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Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

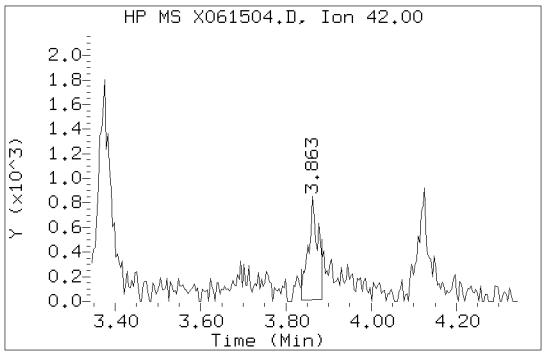
## Tetrahydrofuran (109-99-9)

Reason Code:

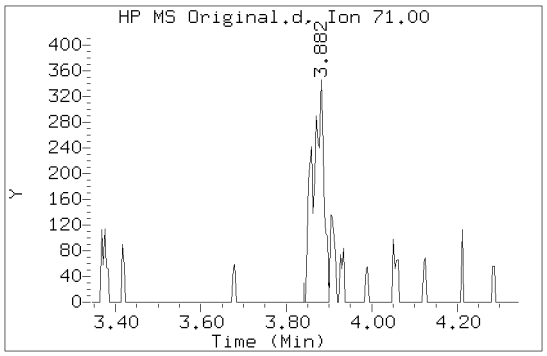
BEFORE
MASS
42
AREA
1350
HEIGHT
841
20-Jun-2023
18:22
linh
pham



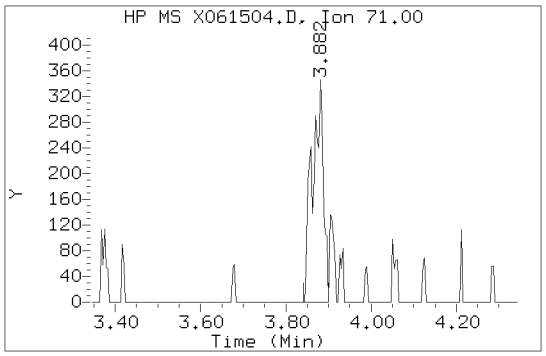

AFTER
MASS
42
AREA
1350
HEIGHT
841
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
71
AREA
625
HEIGHT
346
20-Jun-2023
18:22
linh
pham



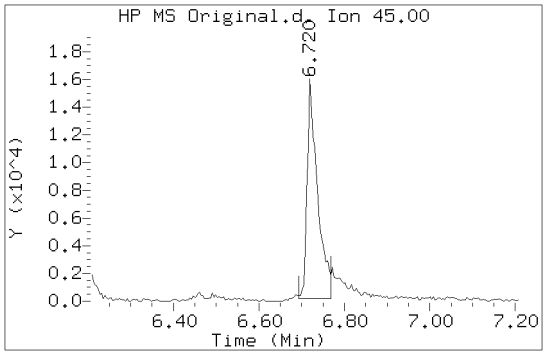

AFTER
MASS
71
AREA
625
HEIGHT
346
20-Jun-2023
18:22
linh
pham



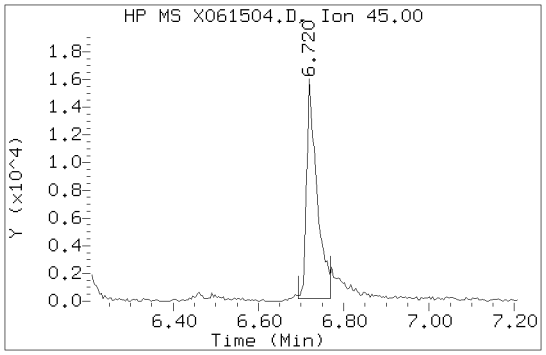

## 4-Methyl-2-pentanol (108-11-2)

Reason Code:

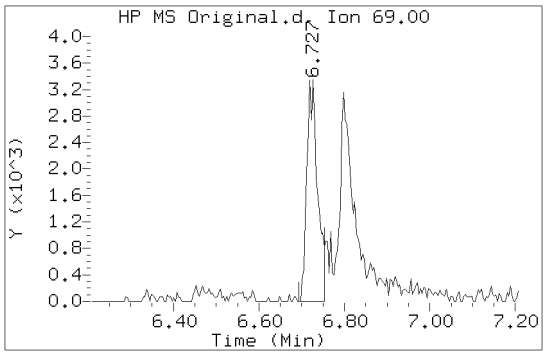
BEFORE
MASS
45
AREA
26840
HEIGHT
15843
20-Jun-2023
18:22
linh
pham



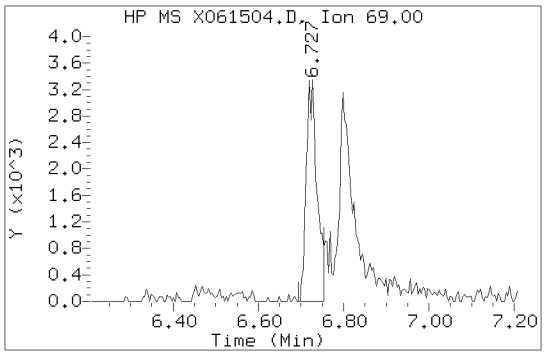

AFTER
MASS
45
AREA
26840
HEIGHT
15843
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
69
AREA
5923
HEIGHT
3349
20-Jun-2023
18:22
linh
pham




AFTER
MASS
69
AREA
5923
HEIGHT
3349
20-Jun-2023
18:22
linh
pham

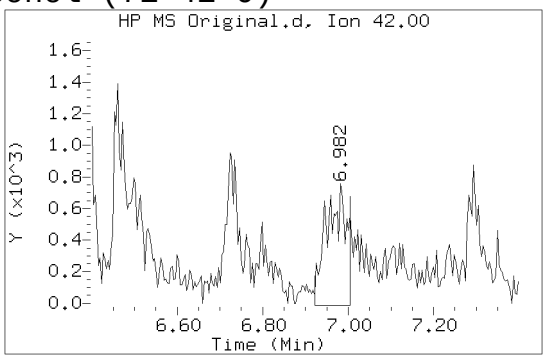


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D
Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

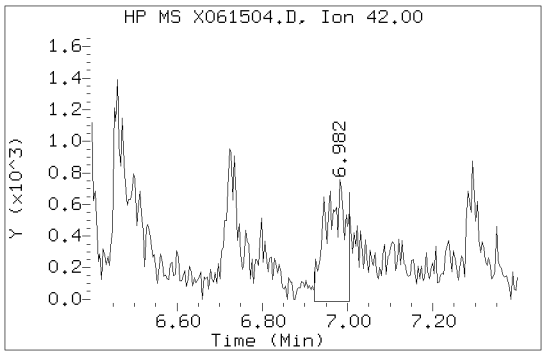
## Amyl alcohol (71-41-0)

Reason Code:

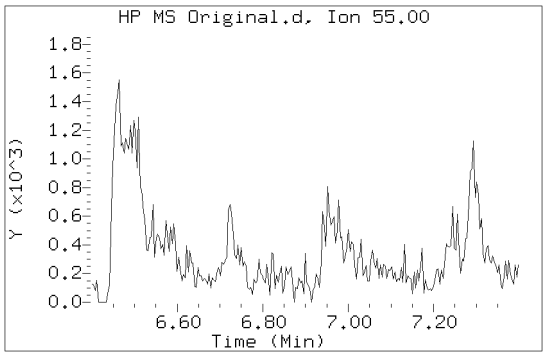
BEFORE
MASS
42
AREA
2449
HEIGHT
771
20-Jun-2023
18:22
linh
pham



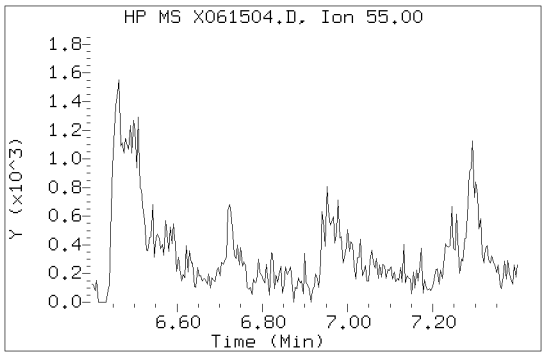

AFTER
MASS
42
AREA
2449
HEIGHT
771
20-Jun-2023
18:22
linh
pham



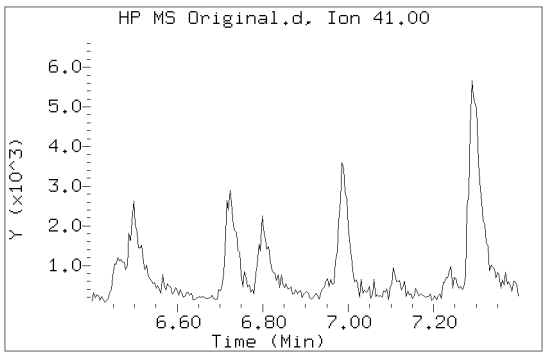

BEFORE
MASS
55
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



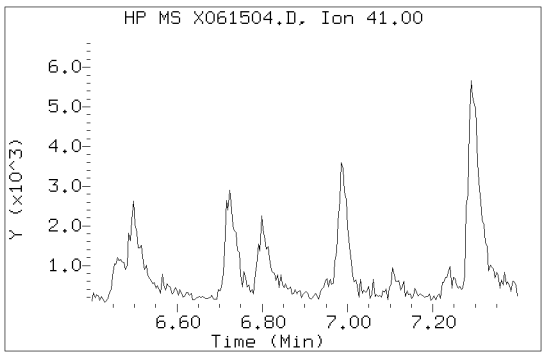

AFTER
MASS
55
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



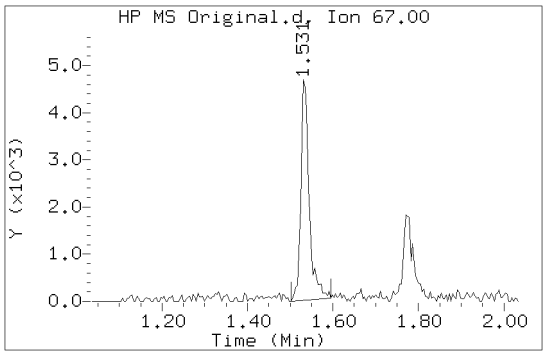

AFTER
MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



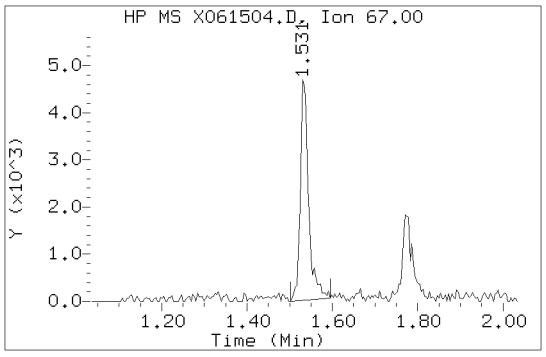

## Dichlorofluoromethane (75-43-4)

Reason Code:

BEFORE
MASS
67
AREA
6498
HEIGHT
4679
20-Jun-2023
18:22
linh
pham




AFTER
MASS
67
AREA
6498
HEIGHT
4679
20-Jun-2023
18:22
linh
pham

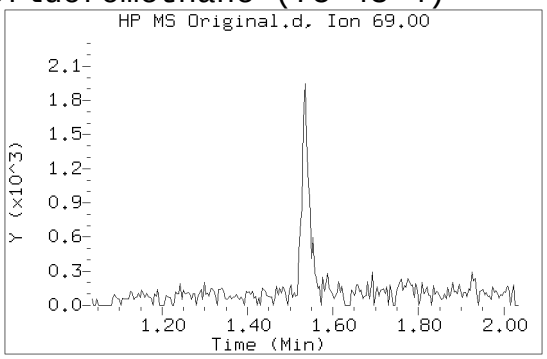


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Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

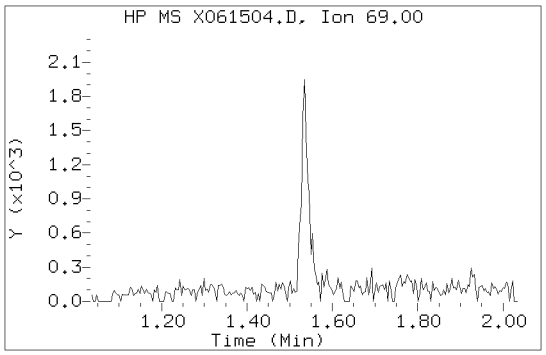
## Dichlorofluoromethane (75-43-4)

Reason Code:

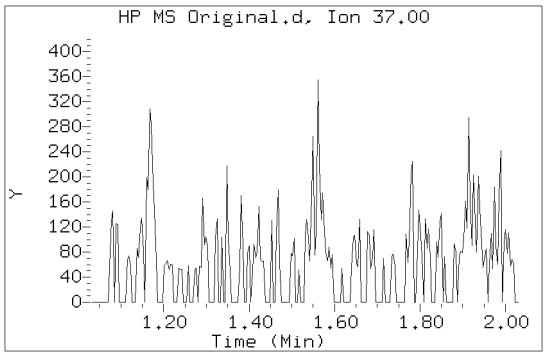
BEFORE
MASS
69
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



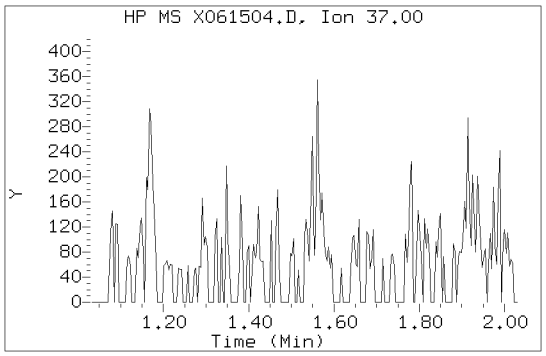

AFTER
MASS
69
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
37
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



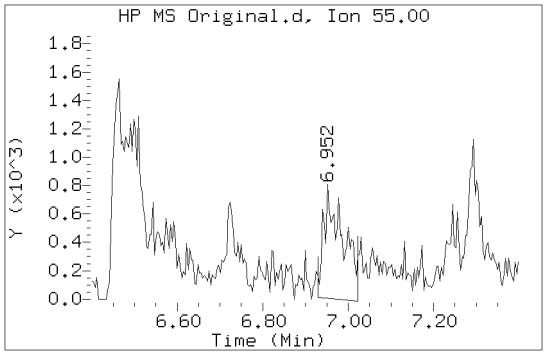

AFTER
MASS
37
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



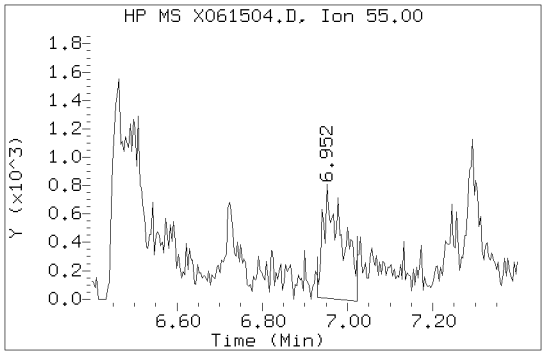

## 3-Methyl-1-butanol (123-51-3)

Reason Code:

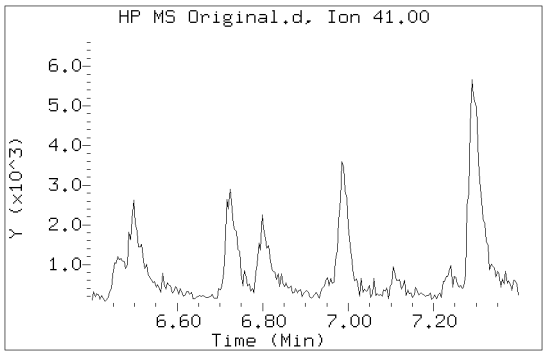
BEFORE
MASS
55
AREA
2518
HEIGHT
804
20-Jun-2023
18:22
linh
pham



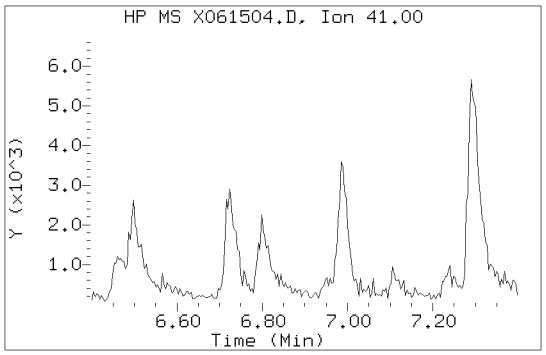

AFTER
MASS
55
AREA
2518
HEIGHT
804
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER
MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

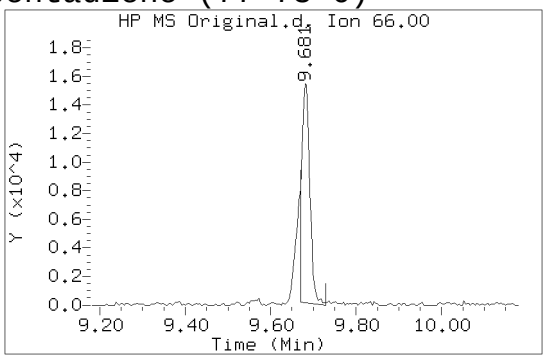


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Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

## Dicyclopentadiene (77-73-6)

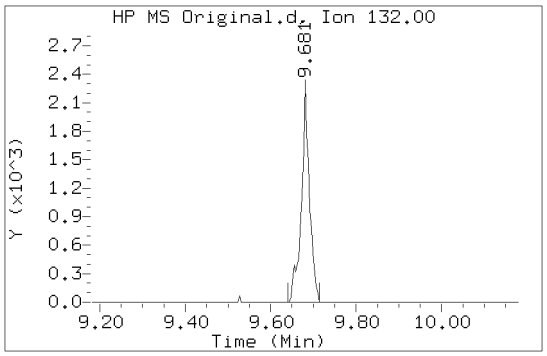
### BEFORE

MASS
66
AREA
21021
HEIGHT
15318
20-Jun-2023
18:22
linh
pham




### BEFORE

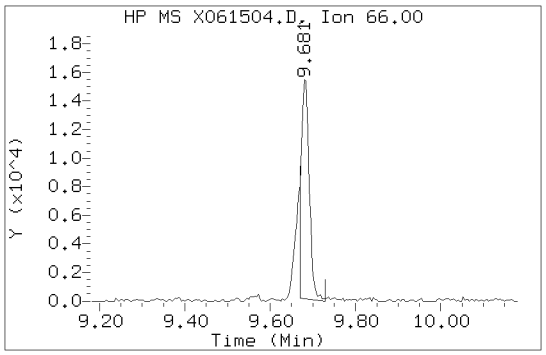
MASS
132
AREA
3124
HEIGHT
2340
20-Jun-2023
18:22
linh
pham




### Reason Code:

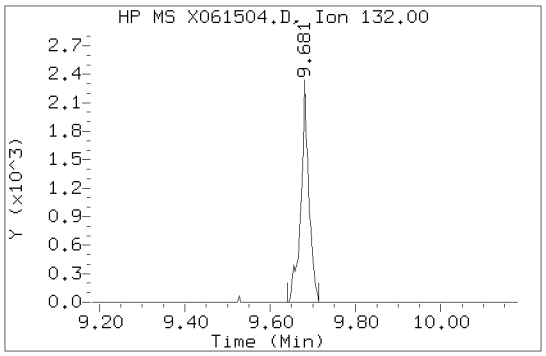
### AFTER

MASS
66
AREA
21021
HEIGHT
15318
20-Jun-2023
18:22
linh
pham




### AFTER

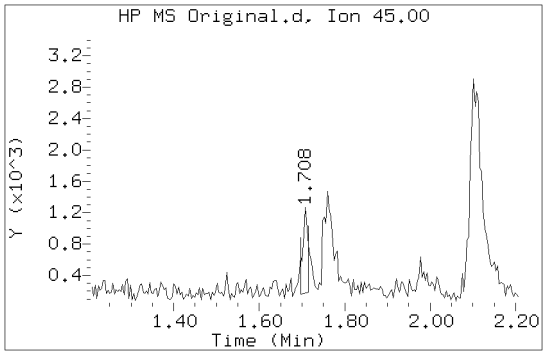
MASS
132
AREA
3124
HEIGHT
2340
20-Jun-2023
18:22
linh
pham




## Ethanol (64-17-5)

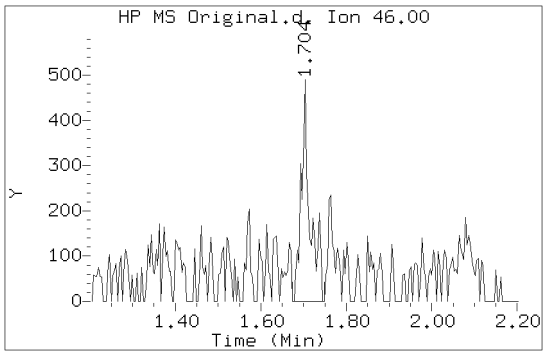
### BEFORE

MASS
45
AREA
953
HEIGHT
1090
20-Jun-2023
18:22
linh
pham




### BEFORE

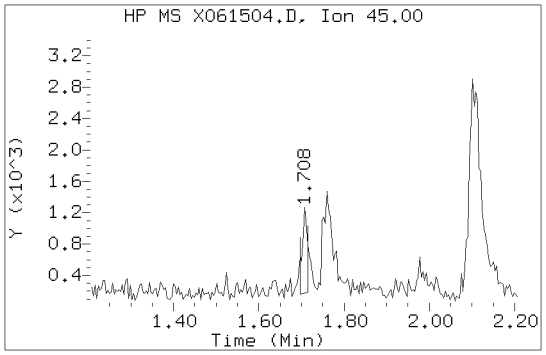
MASS
46
AREA
716
HEIGHT
490
20-Jun-2023
18:22
linh
pham




### Reason Code:

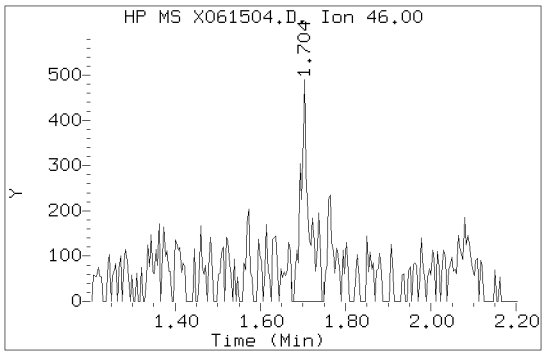
### AFTER

MASS
45
AREA
953
HEIGHT
1090
20-Jun-2023
18:22
linh
pham




### AFTER

MASS
46
AREA
716
HEIGHT
490
20-Jun-2023
18:22
linh
pham



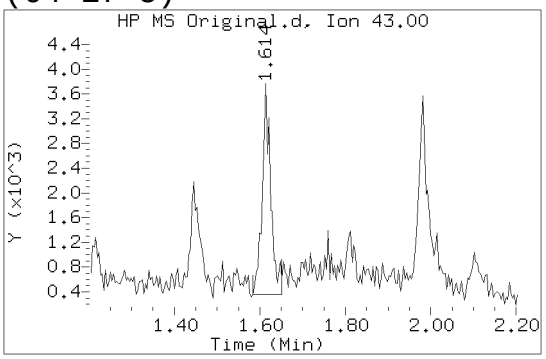
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D
Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

## Ethanol (64-17-5)

Reason Code:

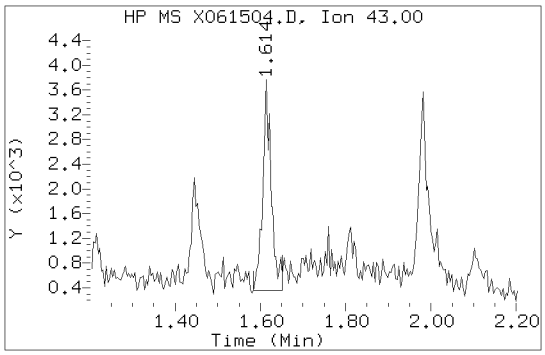
BEFORE

MASS
43
AREA
4694
HEIGHT
3406
20-Jun-2023
18:22
linh
pham




AFTER

MASS
43
AREA
4694
HEIGHT
3406
20-Jun-2023
18:22
linh
pham

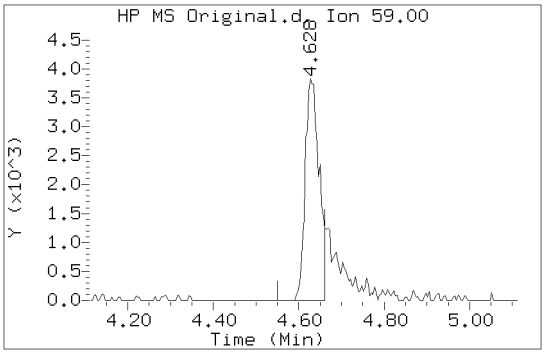



## tert-Butyl formate (762-75-4)

Reason Code:

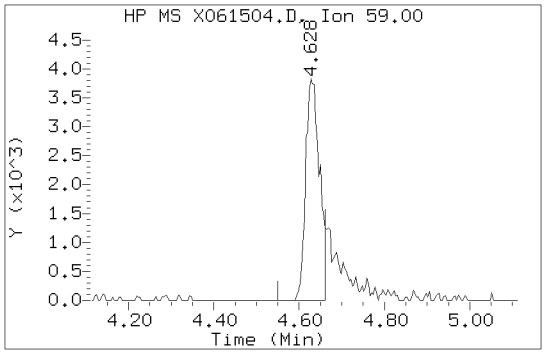
BEFORE

MASS
59
AREA
8761
HEIGHT
3830
20-Jun-2023
18:22
linh
pham



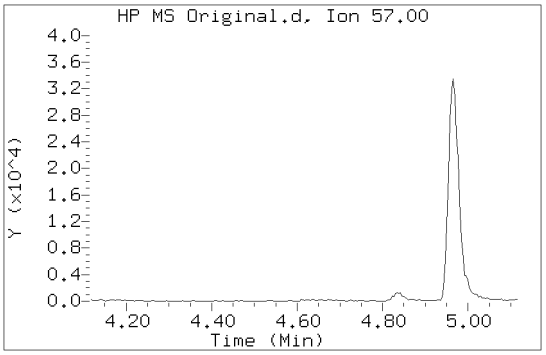

AFTER

MASS
59
AREA
8761
HEIGHT
3830
20-Jun-2023
18:22
linh
pham



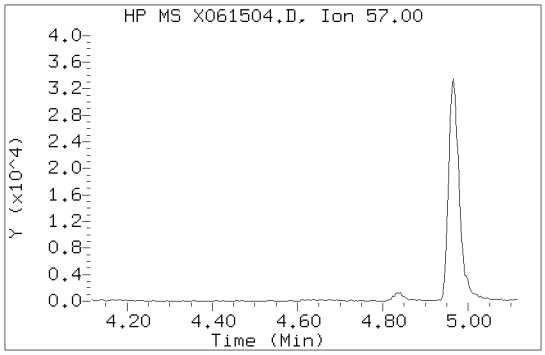

BEFORE

MASS
57
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



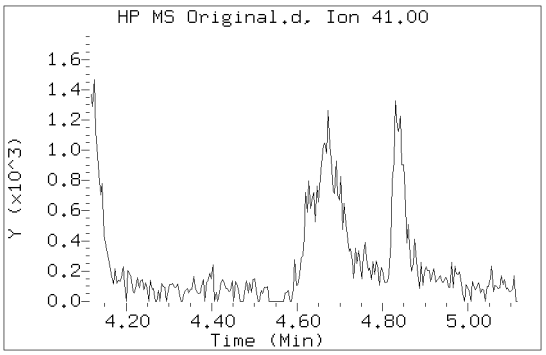

AFTER

MASS
57
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



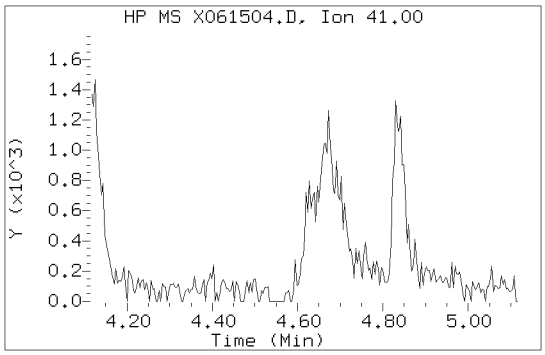

BEFORE

MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER

MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

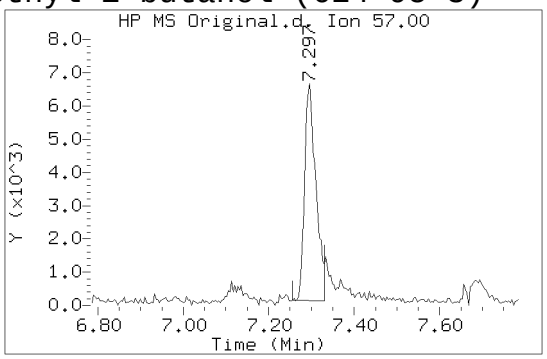


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D
Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

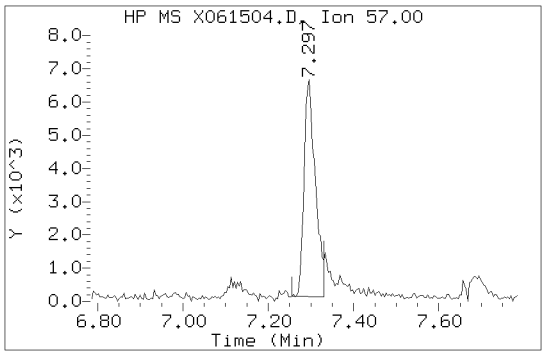
## 3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

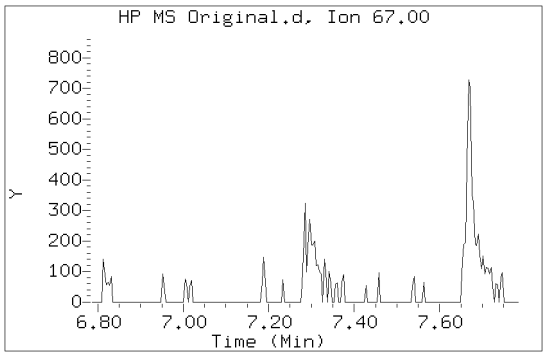
BEFORE
MASS
57
AREA
12186
HEIGHT
6525
20-Jun-2023
18:22
linh
pham



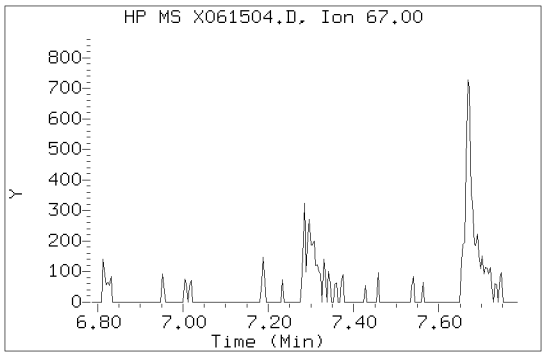

AFTER
MASS
57
AREA
12186
HEIGHT
6525
20-Jun-2023
18:22
linh
pham



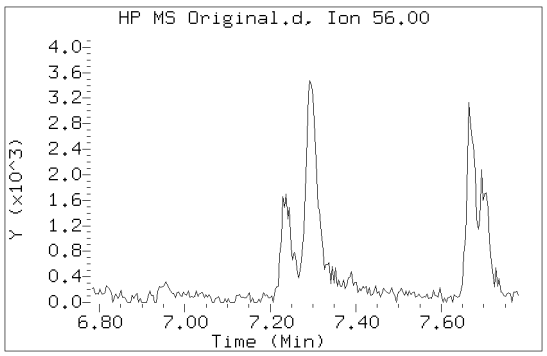

BEFORE
MASS
67
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



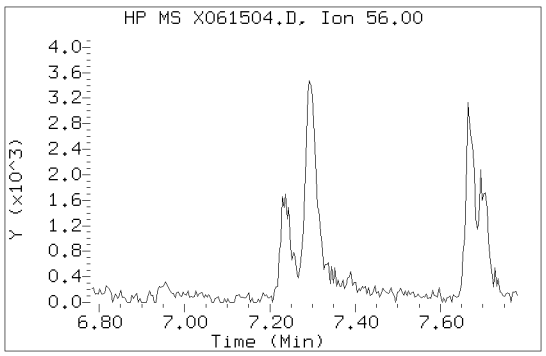

AFTER
MASS
67
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
56
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



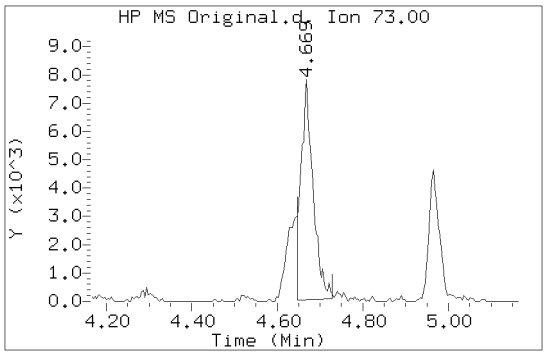

AFTER
MASS
56
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



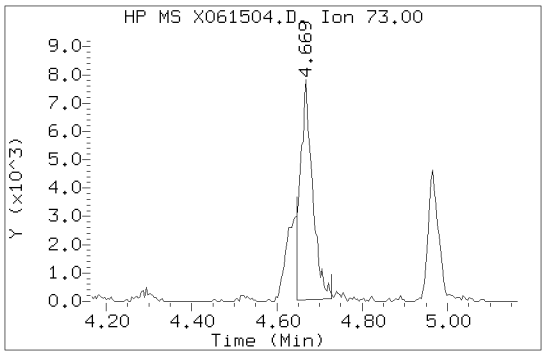

## tert-Amyl methyl ether (974-05-08)

Reason Code:

BEFORE
MASS
73
AREA
15782
HEIGHT
7775
20-Jun-2023
18:22
linh
pham




AFTER
MASS
73
AREA
15782
HEIGHT
7775
20-Jun-2023
18:22
linh
pham



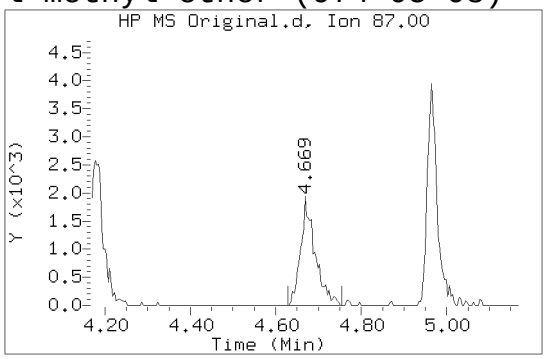
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D
Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

## tert-Amyl methyl ether (974-05-08)

Reason Code:

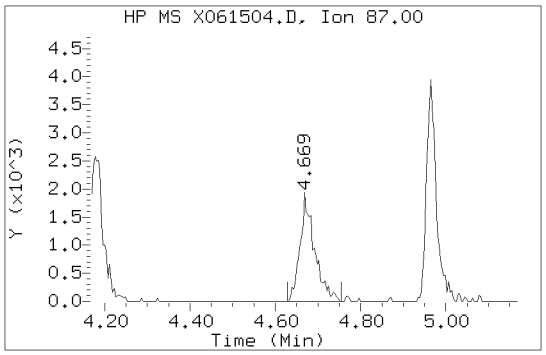
BEFORE

MASS
87
AREA
4614
HEIGHT
1942
20-Jun-2023
18:22
linh
pham



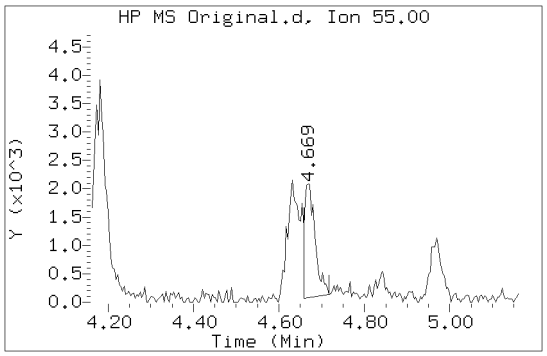

AFTER

MASS
87
AREA
4614
HEIGHT
1942
20-Jun-2023
18:22
linh
pham



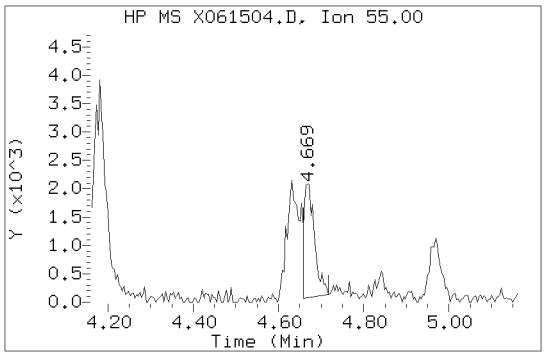

BEFORE

MASS
55
AREA
3580
HEIGHT
2001
20-Jun-2023
18:22
linh
pham




AFTER

MASS
55
AREA
3580
HEIGHT
2001
20-Jun-2023
18:22
linh
pham

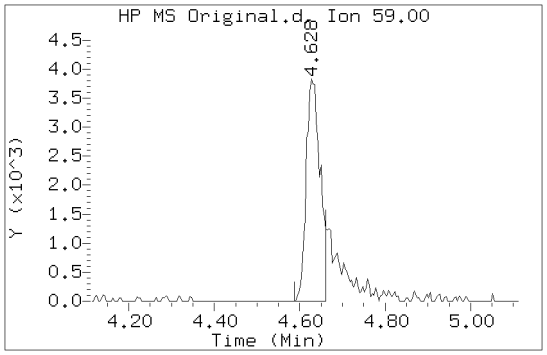



## tert-Amyl alcohol (75-85-4)

Reason Code:

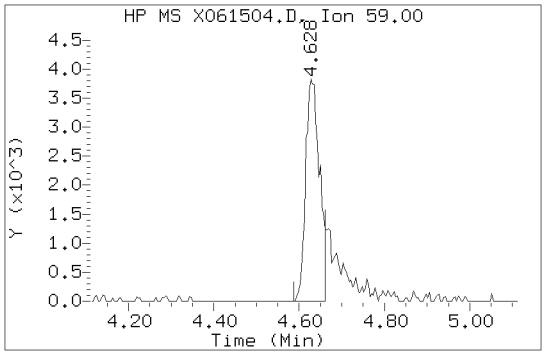
BEFORE

MASS
59
AREA
8761
HEIGHT
3830
20-Jun-2023
18:22
linh
pham



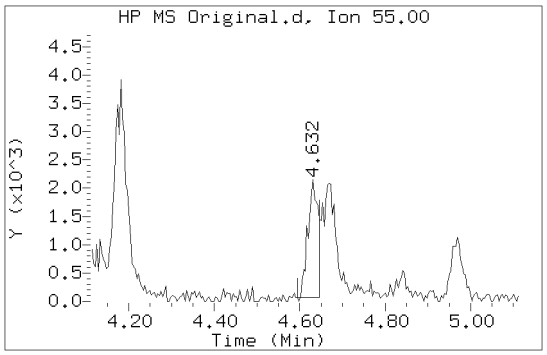

AFTER

MASS
59
AREA
8761
HEIGHT
3830
20-Jun-2023
18:22
linh
pham



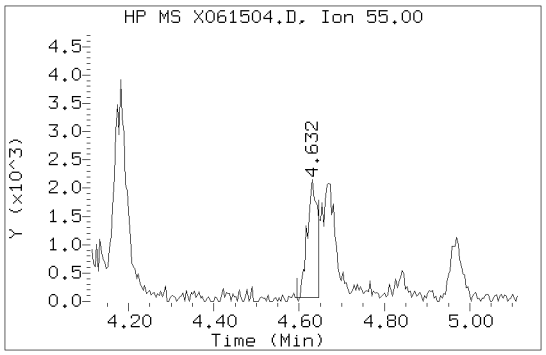

BEFORE

MASS
55
AREA
3431
HEIGHT
2078
20-Jun-2023
18:22
linh
pham




AFTER

MASS
55
AREA
3431
HEIGHT
2078
20-Jun-2023
18:22
linh
pham



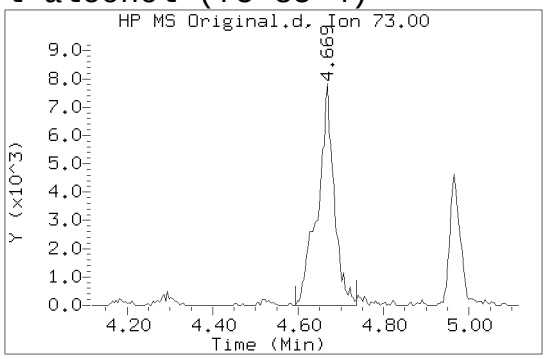
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Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

## tert-Amyl alcohol (75-85-4)

Reason Code:

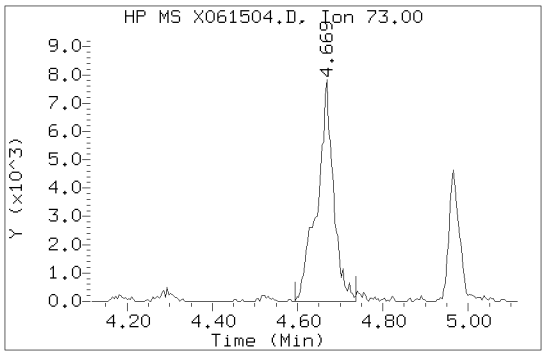
**BEFORE**

MASS
73
AREA
20939
HEIGHT
7828
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
73
AREA
20939
HEIGHT
7828
20-Jun-2023
18:22
linh
pham

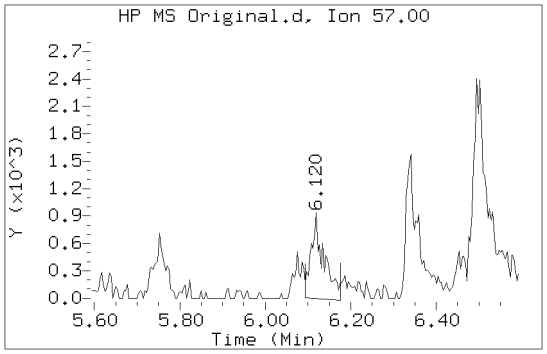



## Epichlorohydrin (106-89-8)

Reason Code:

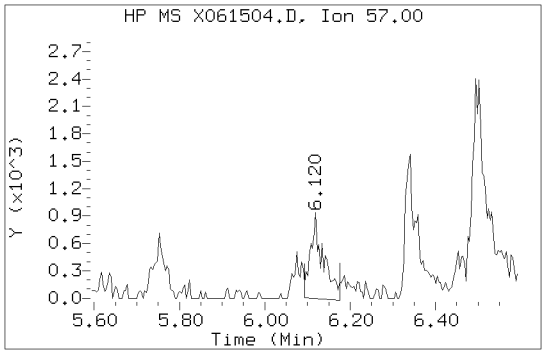
**BEFORE**

MASS
57
AREA
2012
HEIGHT
943
20-Jun-2023
18:22
linh
pham



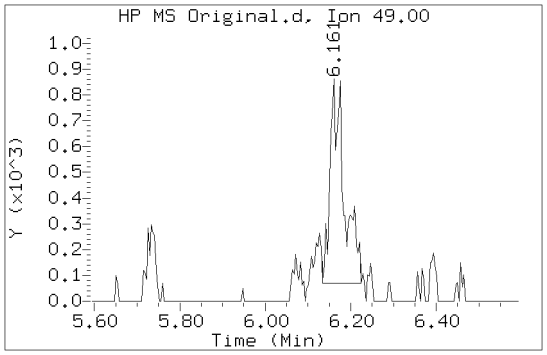

**AFTER**

MASS
57
AREA
2012
HEIGHT
943
20-Jun-2023
18:22
linh
pham



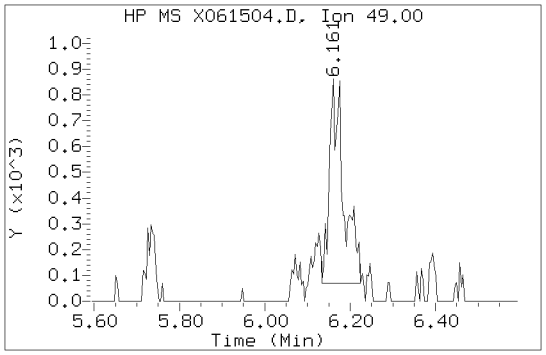

**BEFORE**

MASS
49
AREA
1811
HEIGHT
791
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
49
AREA
1811
HEIGHT
791
20-Jun-2023
18:22
linh
pham

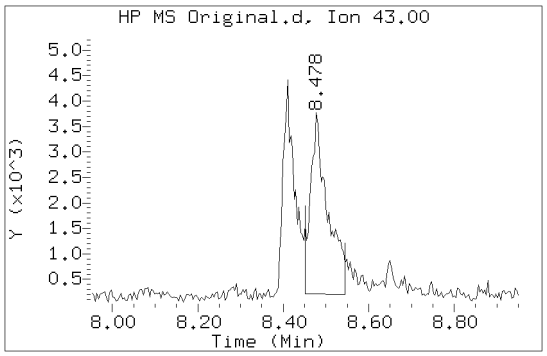



## n-Amyl acetate (628-63-7)

Reason Code:

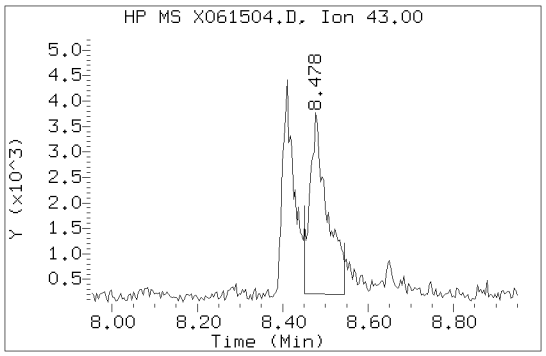
**BEFORE**

MASS
43
AREA
10084
HEIGHT
3554
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
43
AREA
10084
HEIGHT
3554
20-Jun-2023
18:22
linh
pham



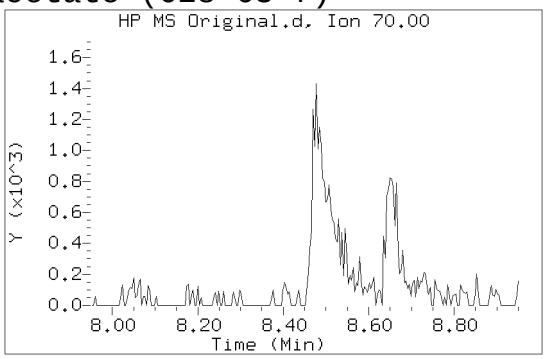
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D
Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

## n-Amyl acetate (628-63-7)

Reason Code:

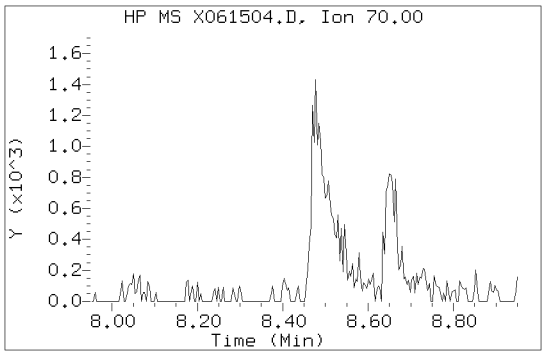
BEFORE

MASS
70
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



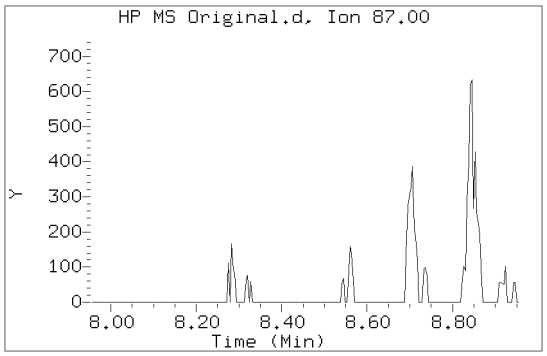

AFTER

MASS
70
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



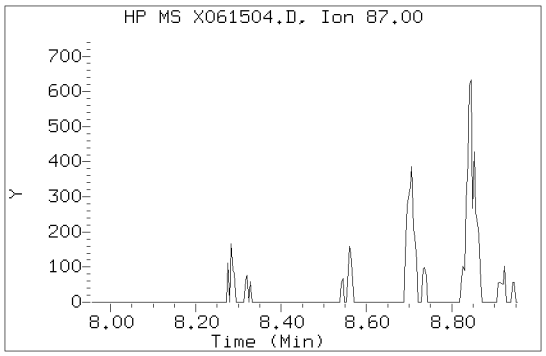

BEFORE

MASS
87
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER

MASS
87
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

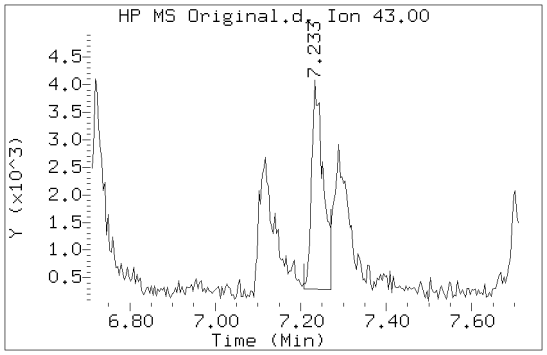



## n-Butyl acetate (123-86-4)

Reason Code:

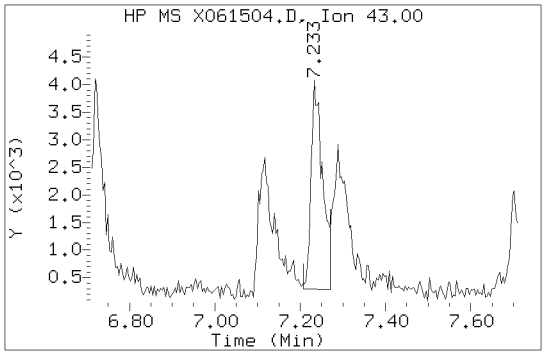
BEFORE

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HEIGHT
3783
20-Jun-2023
18:22
linh
pham



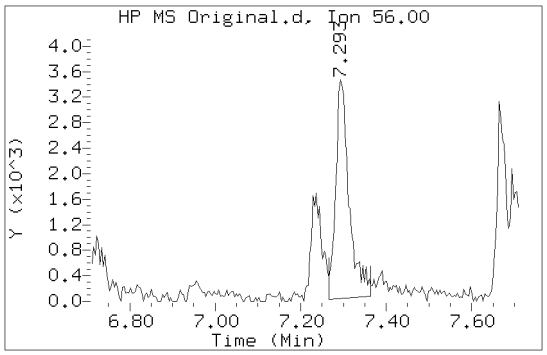

AFTER

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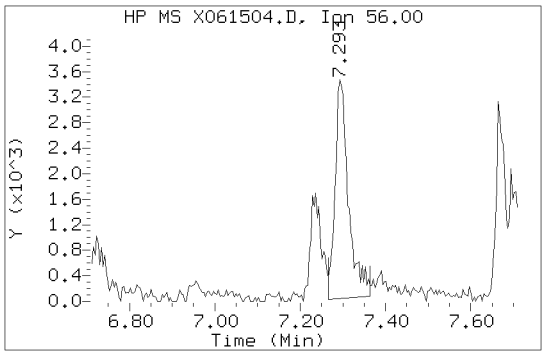

BEFORE

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20-Jun-2023
18:22
linh
pham




AFTER

MASS
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AREA
7504
HEIGHT
3430
20-Jun-2023
18:22
linh
pham



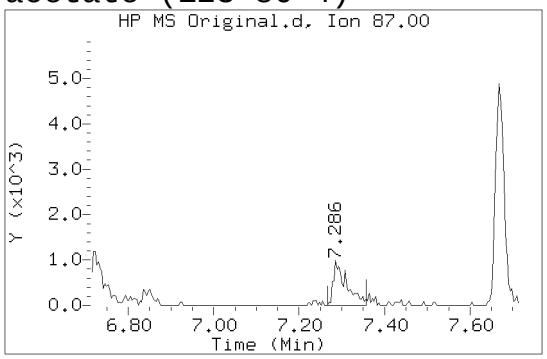
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Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

## n-Butyl acetate (123-86-4)

Reason Code:

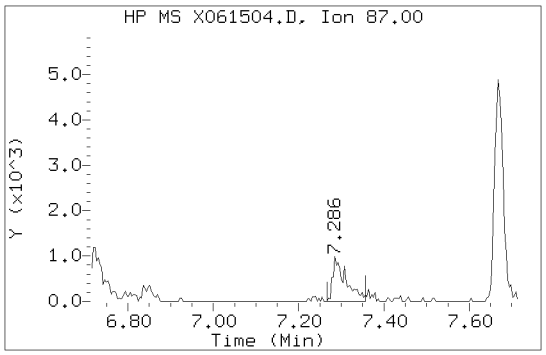
**BEFORE**

MASS
87
AREA
2090
HEIGHT
984
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
87
AREA
2090
HEIGHT
984
20-Jun-2023
18:22
linh
pham

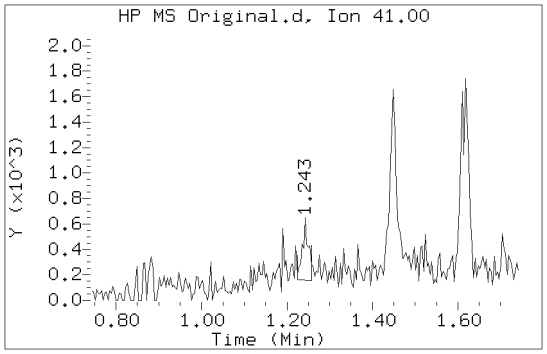



## Isobutylene (115-11-7)

Reason Code:

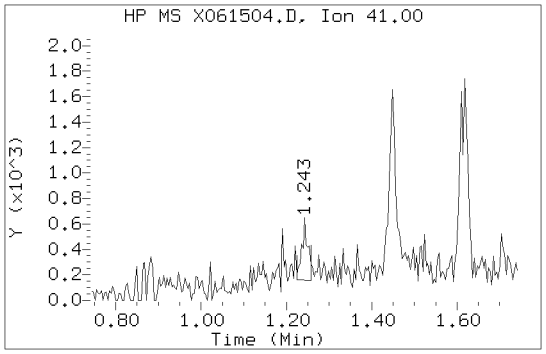
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HEIGHT
491
20-Jun-2023
18:22
linh
pham



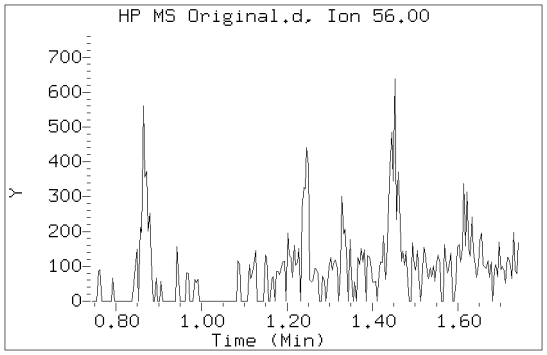

**AFTER**

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41
AREA
500
HEIGHT
491
20-Jun-2023
18:22
linh
pham



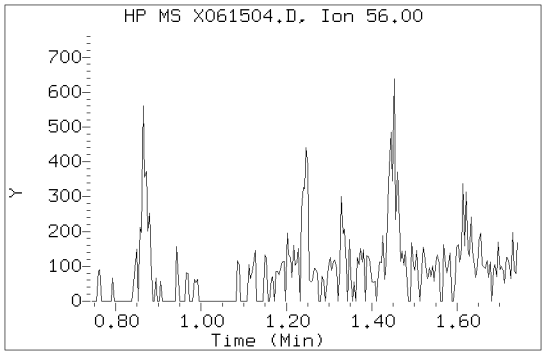

**BEFORE**

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HEIGHT
0
20-Jun-2023
18:22
linh
pham



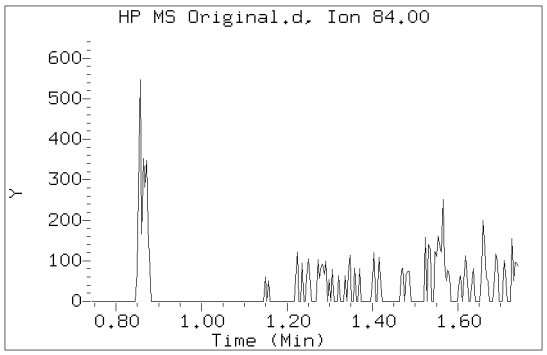

**AFTER**

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20-Jun-2023
18:22
linh
pham



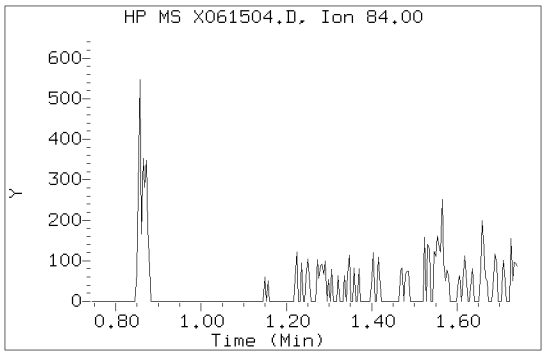

**BEFORE**

MASS
84
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HEIGHT
0
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
84
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



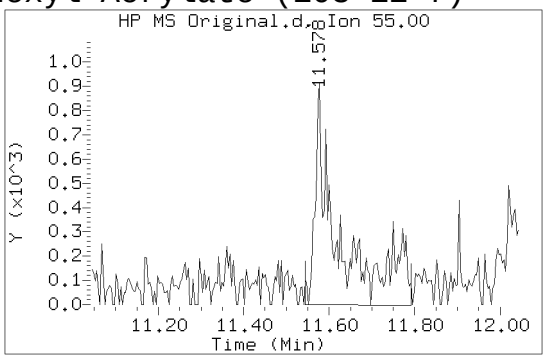
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Inj Date : 15-JUN-2023 12:18
InstruID : voa6.i
LabSampID : VSTD001

## 2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

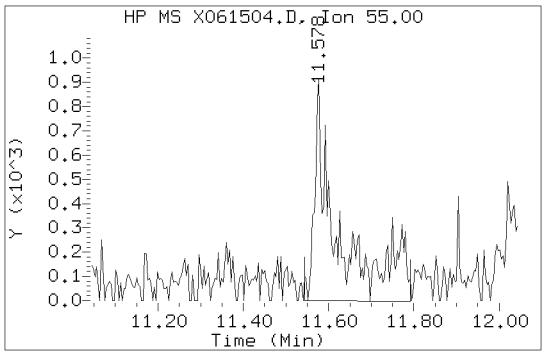
### BEFORE

MASS
55
AREA
3400
HEIGHT
911
20-Jun-2023
18:22
linh
pham



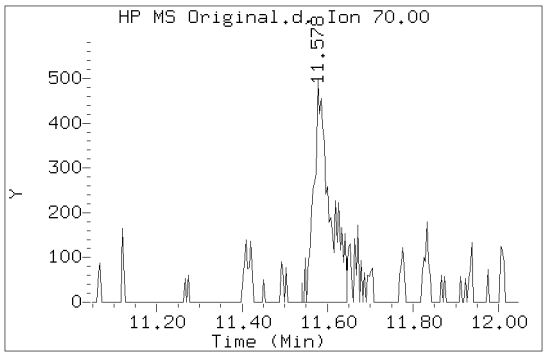

### AFTER

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AREA
3400
HEIGHT
911
20-Jun-2023
18:22
linh
pham



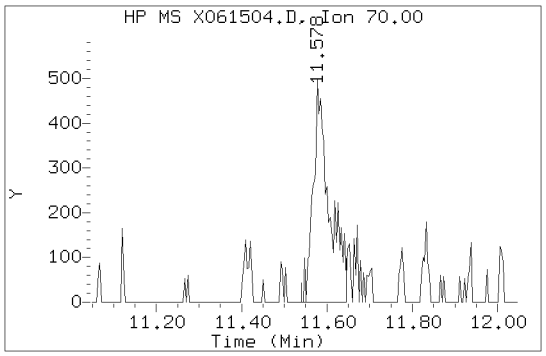

### BEFORE

MASS
70
AREA
1291
HEIGHT
497
20-Jun-2023
18:22
linh
pham




### AFTER

MASS
70
AREA
1291
HEIGHT
497
20-Jun-2023
18:22
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D  Page 1
Report Date: 20-Jun-2023 18:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
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Inj Date  : 15-JUN-2023 12:39
Operator  : PC  Inst ID: voa6.i
Smp Info  : VSTD002;VSTD002;1;4;
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 12:39  Cal File: X061505.D
Als bottle: 6  Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 00000_8260.sub
Target Version:  4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| 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) |
|---|---|---|---|---|---|---|---|---|
| * | 1 Pentafluorobenzene | 168 | 4.178 | 4.181 | (1.000) | 491447 | 50.0000 | |
| | 2 Dichlorodifluoromethane | 85 | 0.976 | 0.976 | (0.234) | 9827 | 2.00000 | 2.63 |
| | 3 Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 11295 | 2.00000 | 3.15(M) |
| | 4 Propionitrile | 54 | 3.675 | 3.653 | (0.880) | 10893 | 20.0000 | 18.32(a) |
| | 5 Vinyl Chloride | 62 | 1.145 | 1.149 | (0.274) | 11284 | 2.00000 | 2.18(M) |
| | 6 Bromomethane | 94 | 1.347 | 1.344 | (0.323) | 6397 | 2.00000 | 2.15 |
| | 7 Chloroethane | 64 | 1.404 | 1.407 | (0.336) | 6480 | 2.00000 | 2.05(M) |
| | 8 Trichlorofluoromethane | 101 | 1.561 | 1.565 | (0.374) | 13596 | 2.00000 | 2.21(M) |
| | 9 Acrolein | 56 | 1.449 | 1.449 | (0.347) | 1177 | 4.00000 | 3.85(aM) |
| | 10 Acetone | 43 | 1.977 | 1.973 | (0.473) | 7818 | 4.00000 | 5.84 |
| | 11 1,1-Dichloroethene | 96 | 1.917 | 1.917 | (0.459) | 8233 | 2.00000 | 2.13(M) |
| | 12 Isobutyl Alcohol | 43 | 4.680 | 4.676 | (1.120) | 25931 | 40.0000 | 40.46(a) |
| | 13 Acetonitrile | 39 | 2.210 | 2.202 | (0.529) | 9828 | 20.0000 | 20.61(a) |
| | 14 Allyl Chloride | 41 | 2.210 | 2.202 | (0.529) | 21197 | 2.00000 | 1.96(a) |
| | 15 Iodomethane | 142 | 2.030 | 2.030 | (0.486) | 14998 | 4.00000 | 4.64 |
| | 16 Acrylonitrile | 53 | 2.577 | 2.536 | (0.617) | 6148 | 4.00000 | 3.94(M) |
| | 17 Methylene Chloride | 84 | 2.311 | 2.307 | (0.553) | 10372 | 2.00000 | 1.90(M) |
| | 18 Methyl tert-butyl ether | 73 | 2.539 | 2.536 | (0.608) | 28898 | 2.00000 | 2.15 |
| | 19 Carbon Disulfide | 76 | 2.071 | 2.071 | (0.496) | 57380 | 4.00000 | 4.18 |
| | 20 trans-1,2-Dichloroethene | 96 | 2.539 | 2.532 | (0.608) | 9744 | 2.00000 | 2.11 |
| | 21 Vinyl Acetate | 43 | 3.019 | 2.997 | (0.723) | 44460 | 4.00000 | 3.61(M) |

| | | | | | | |
|---|---|---|---|---|---|---|
| 22 1,1-Dichloroethane | 63 | 2.922 | 2.922 (0.699) | 17688 | 2.00000 | 2.13 |
| 23 Chloroprene | 53 | 1.775 | 1.775 (0.425) | 3814 | 2.00000 | 2.33(aM) |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 24 | 2-Butanone | 43 | 3.660 | 3.578 | (0.876) | 6420 | 4.00000 | 3.96(M) |
| 25 | Methacrylonitrile | 41 | 3.859 | 3.821 | (0.924) | 6777 | 2.00000 | 1.67(aH) |
| 26 | 2,2-Dichloropropane | 77 | 3.510 | 3.514 | (0.840) | 15188 | 2.00000 | 2.31 |
| 27 | cis-1,2-Dichloroethene | 96 | 3.529 | 3.525 | (0.845) | 10709 | 2.00000 | 2.01 |
| 28 | Chloroform | 83 | 3.912 | 3.904 | (0.936) | 19699 | 2.00000 | 2.20 |
| 29 | Bromochloromethane | 128 | 3.799 | 3.795 | (0.909) | 6232 | 2.00000 | 2.20 |
| $ 30 | Dibromofluoromethane | 113 | 4.110 | 4.099 | (0.984) | 9855 | 2.00000 | 1.91 |
| 31 | 1,1,1-Trichloroethane | 97 | 4.084 | 4.084 | (0.978) | 15758 | 2.00000 | 2.18 |
| 32 | 1,1-Dichloropropene | 75 | 4.283 | 4.279 | (0.863) | 13845 | 2.00000 | 2.18 |
| 33 | 1,2-Dichloroethane | 62 | 4.568 | 4.556 | (0.920) | 11862 | 2.00000 | 1.86 |
| 34 | Carbon Tetrachloride | 117 | 4.268 | 4.264 | (0.860) | 13225 | 2.00000 | 2.16(M) |
| $ 35 | 1,2-Dichloroethane-d4 | 65 | 4.485 | 4.470 | (1.074) | 11054 | 2.00000 | 1.51 |
| * 36 | 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 756725 | 50.0000 | |
| 37 | Benzene | 78 | 4.519 | 4.511 | (0.910) | 40051 | 2.00000 | 2.05 |
| 38 | Trichloroethene | 130 | 5.209 | 5.205 | (1.049) | 11520 | 2.00000 | 2.14(a) |
| 39 | Bromodichloromethane | 83 | 5.726 | 5.722 | (1.153) | 13844 | 2.00000 | 2.01(a) |
| 40 | Methyl Methacrylate | 41 | 5.625 | 5.606 | (1.346) | 6671 | 2.00000 | 1.75(a) |
| 41 | 2-Chloroethylvinyl ether | 63 | 6.067 | 6.048 | (1.222) | 7359 | 4.00000 | 3.94(a) |
| 42 | 1,2-Dichloropropane | 63 | 5.433 | 5.437 | (1.094) | 10261 | 2.00000 | 2.00(aM) |
| 43 | 2-Nitropropane | 43 | 5.973 | 5.966 | (1.430) | 2410 | 2.00000 | 1.81(aH) |
| 44 | Dibromomethane | 93 | 5.561 | 5.550 | (1.120) | 6792 | 2.00000 | 2.11(a) |
| 45 | 4-Methyl-2-Pentanone | 43 | 6.333 | 6.322 | (0.826) | 18797 | 4.00000 | 4.09(a) |
| 46 | cis-1,3-Dichloropropene | 75 | 6.164 | 6.153 | (1.242) | 16469 | 2.00000 | 1.93(a) |
| * 47 | Chlorobenzene-d5 | 117 | 7.668 | 7.668 | (1.000) | 710505 | 50.0000 | |
| $ 48 | Toluene-d8 | 98 | 6.393 | 6.386 | (0.834) | 37063 | 2.00000 | 2.06(a) |
| 49 | Ethyl Methacrylate | 69 | 6.719 | 6.708 | (1.353) | 11631 | 2.00000 | 2.14(aM) |
| 50 | Toluene | 91 | 6.453 | 6.445 | (0.842) | 44414 | 2.00000 | 2.12(a) |
| 51 | trans-1,3-Dichloropropene | 75 | 6.689 | 6.678 | (1.347) | 13530 | 2.00000 | 1.90(a) |
| 52 | 2-Hexanone | 43 | 7.105 | 7.083 | (0.927) | 12601 | 4.00000 | 4.11(a) |
| 53 | 1,1,2-Trichloroethane | 83 | 6.843 | 6.835 | (0.892) | 8751 | 2.00000 | 2.15(a) |
| 54 | 1,3-Dichloropropane | 76 | 6.985 | 6.978 | (0.911) | 16399 | 2.00000 | 1.99(a) |
| 55 | Dibromochloromethane | 129 | 7.180 | 7.173 | (0.936) | 11673 | 2.00000 | 2.02(a) |
| 56 | Tetrachloroethene | 164 | 6.929 | 6.925 | (0.904) | 9492 | 2.00000 | 2.21(a) |
| 57 | 1,2-Dibromoethane | 107 | 7.263 | 7.259 | (0.947) | 10319 | 2.00000 | 1.98(a) |
| 58 | 1-Chlorohexane | 55 | 7.701 | 7.694 | (1.551) | 10171 | 2.00000 | 2.21(a) |
| 59 | Chlorobenzene | 112 | 7.698 | 7.690 | (1.004) | 29078 | 2.00000 | 2.03(a) |
| 60 | 1,1,1,2-Tetrachloroethane | 131 | 7.776 | 7.773 | (1.014) | 10908 | 2.00000 | 2.04(a) |
| 61 | Ethylbenzene | 106 | 7.806 | 7.799 | (1.018) | 15525 | 2.00000 | 2.11(a) |
| 62 | m,p-Xylenes | 106 | 7.908 | 7.900 | (1.031) | 37098 | 4.00000 | 4.09(a) |
| 63 | o-Xylene | 106 | 8.245 | 8.237 | (1.075) | 19383 | 2.00000 | 2.14(a) |
| 64 | Styrene | 104 | 8.271 | 8.256 | (1.079) | 29379 | 2.00000 | 1.97(a) |
| 66 | Bromoform | 173 | 8.414 | 8.410 | (1.097) | 7721 | 2.00000 | 1.92(Ta) |
| 67 | Isopropylbenzene | 105 | 8.564 | 8.560 | (1.117) | 47118 | 2.00000 | 2.10(a) |
| 68 | 1,1,2,2-Tetrachloroethane | 83 | 8.841 | 8.837 | (0.915) | 14437 | 2.00000 | 2.11(a) |
| $ 69 | 4-Bromofluorobenzene | 95 | 8.695 | 8.687 | (1.134) | 16470 | 2.00000 | 1.86(a) |
| * 70 | 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.658 | (1.000) | 388397 | 50.0000 | |
| 71 | 1,2,3-Trichloropropane | 75 | 8.867 | 8.863 | (0.918) | 10499 | 2.00000 | 2.14(a) |
| 72 | trans-1,4-Dichloro-2-butene | 53 | 8.905 | 8.886 | (1.161) | 3093 | 2.00000 | 1.78(aM) |
| 73 | n-Propylbenzene | 91 | 8.916 | 8.908 | (0.923) | 55786 | 2.00000 | 2.18(a) |
| 74 | Bromobenzene | 156 | 8.815 | 8.803 | (0.912) | 13387 | 2.00000 | 2.11(aM) |
| 75 | 1,3,5-Trimethylbenzene | 105 | 9.070 | 9.066 | (0.939) | 39913 | 2.00000 | 2.12(a) |
| 76 | 2-Chlorotoluene | 91 | 8.976 | 8.972 | (0.929) | 35737 | 2.00000 | 2.20(a) |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 77 | 4-Chlorotoluene | 91 | 9.081 | 9.070 (0.940) | 39085 | 2.00000 | 2.15(a) |
| 78 | tert-Butylbenzene | 119 | 9.336 | 9.336 (0.966) | 34187 | 2.00000 | 2.18(a) |

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D Page 3
Report Date: 20-Jun-2023 18:25

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 79 | 1,2,4-Trimethylbenzene | 105 | 9.381 | 9.377 | (0.971) | 39036 | 2.00000 | 2.06(a) |
| 81 | sec-Butylbenzene | 105 | 9.519 | 9.519 | (0.985) | 46617 | 2.00000 | 2.11(a) |
| 82 | p-Isopropyltoluene | 119 | 9.651 | 9.647 | (0.999) | 40965 | 2.00000 | 2.12(a) |
| 83 | 1,3-Dichlorobenzene | 146 | 9.609 | 9.602 | (0.995) | 22900 | 2.00000 | 2.03(a) |
| 84 | 1,4-Dichlorobenzene | 146 | 9.684 | 9.681 | (1.002) | 26087 | 2.00000 | 2.16(a) |
| 86 | Benzyl Chloride | 91 | 9.816 | 9.808 | (1.280) | 20389 | 2.00000 | 1.73(aM) |
| 87 | n-Butylbenzene | 91 | 10.003 | 9.992 | (1.035) | 33064 | 2.00000 | 2.01(a) |
| 88 | 1,2-Dichlorobenzene | 146 | 10.003 | 9.992 | (1.035) | 23526 | 2.00000 | 2.10(a) |
| 89 | 1,2-Dibromo-3-Chloropropane | 155 | 10.674 | 10.655 | (1.105) | 2351 | 2.00000 | 2.36(a) |
| 90 | 1,2,4-Trichlorobenzene | 180 | 11.353 | 11.334 | (1.175) | 14424 | 2.00000 | 1.85(a) |
| 91 | Hexachlorobutadiene | 225 | 11.476 | 11.476 | (1.188) | 7390 | 2.00000 | 2.11(a) |
| 92 | Naphthalene | 128 | 11.562 | 11.540 | (1.197) | 32050 | 2.00000 | 1.82(a) |
| 93 | 1,2,3-Trichlorobenzene | 180 | 11.750 | 11.739 | (1.216) | 14223 | 2.00000 | 1.98(a) |
| 146 | Methyl acetate | 43 | 2.247 | 2.232 | (0.538) | 5157 | 2.00000 | 1.77(aM) |
| 138 | Freon TF | 101 | 1.921 | 1.917 | (0.460) | 8361 | 2.00000 | 2.50(aM) |
| 141 | Cyclohexane | 56 | 4.125 | 4.121 | (0.987) | 13787 | 2.00000 | 2.20(aMH) |
| 142 | Tetrahydrofuran | 42 | 3.863 | 3.844 | (0.925) | 2899 | 4.00000 | 4.04(a) |
| 147 | Methylcyclohexane | 55 | 5.370 | 5.381 | (1.082) | 20990 | 2.00000 | 1.98(aM) |
| 135 | 1,4-Dioxane | 88 | 5.613 | 5.598 | (1.344) | 2444 | 40.0000 | 41.03(M) |
| 132 | n-Butanol | 56 | 5.355 | 5.253 | (1.282) | 3179 | 40.0000 | 88.25(aM) |
| 131 | Methyl Acrylate | 55 | 3.735 | 3.690 | (0.894) | 8064 | 2.00000 | 2.02(aM) |
| 133 | Ethyl Acrylate | 55 | 5.407 | 5.381 | (1.294) | 14275 | 2.00000 | 3.59(M) |
| 136 | n-Hexane | 57 | 2.776 | 2.776 | (0.664) | 10696 | 2.00000 | 2.27(aM) |
| 139 | Diethyl ether | 59 | 1.764 | 1.760 | (0.422) | 6390 | 2.00000 | 2.07(a) |
| 148 | Tert-butyl alcohol | 59 | 2.438 | 2.431 | (0.584) | 20278 | 40.0000 | 40.18 |
| 149 | Isopropyl alcohol | 45 | 2.105 | 2.093 | (0.504) | 11338 | 40.0000 | 40.70(T) |
| 156 | Diisopropyl ether | 45 | 3.001 | 3.000 | (0.718) | 28799 | 2.00000 | 1.98(Ta) |
| 160 | 2-Methylnaphthalene | 142 | 12.646 | 12.634 | (1.309) | 12286 | 2.00000 | 1.60 |
| 166 | 1,2,3-Trimethylbenzene | 105 | 9.733 | 9.729 | (1.007) | 38504 | 2.00000 | 2.08(a) |
| 167 | Ethanol | 45 | 1.700 | 1.707 | (0.407) | 2336 | 40.0000 | 49.73(TM) |
| 172 | tert-Butyl formate | 59 | 4.627 | 4.612 | (1.108) | 16716 | 4.00000 | 4.13(aM) |
| 173 | 3,3-Dimethyl-1-butanol | 57 | 7.293 | 7.285 | (0.951) | 26671 | 40.0000 | 45.89 |
| 174 | tert-Amyl methyl ether | 73 | 4.669 | 4.665 | (1.118) | 32910 | 2.00000 | 2.08(aM) |
| 175 | tert-Butyl ethyl ether | 59 | 3.375 | 3.379 | (0.808) | 30807 | 2.00000 | 2.05(a) |
| 176 | tert-Amyl alcohol | 59 | 4.627 | 4.612 | (1.108) | 16715 | 40.0000 | 40.49 |
| 151 | 4-Methyl-2-pentanol | 45 | 6.715 | 6.708 | (1.353) | 56864 | 40.0000 | 47.25(M) |
| 180 | 1-Methylnaphthalene | 142 | 12.646 | 12.634 | (1.309) | 12286 | 2.00000 | (a) |
| 140 | 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.280) | 8478 | 2.00000 | 2.08(aM) |
| 152 | Amyl alcohol | 42 | 6.944 | 6.899 | (0.906) | 5090 | 40.0000 | 38.44(M) |
| 158 | Dichlorofluoromethane | 67 | 1.535 | 1.535 | (0.367) | 15880 | 2.00000 | 2.24(M) |
| 159 | Propylene oxide | 43 | 1.809 | 1.805 | (0.433) | 2196 | 4.00000 | 5.04 |
| 161 | 3-Methyl-1-butanol | 55 | 6.937 | 6.899 | (0.905) | 3850 | 40.0000 | 62.56(M) |
| 162 | Butyl acrylate | 55 | 8.267 | 8.249 | (1.078) | 19207 | 2.00000 | 2.35(a) |
| 163 | Butyl methacrylate | 41 | 9.178 | 9.167 | (0.950) | 13349 | 2.00000 | 2.04(a) |
| 164 | Dicyclopentadiene | 66 | 9.681 | 9.681 | (1.002) | 45923 | 2.00000 | 2.11(aM) |
| 182 | Epichlorohydrin | 57 | 6.112 | 6.093 | (1.231) | 3820 | 8.00000 | 8.43(M) |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 20453 | 4.00000 | (a) |
| 130 | Ethyl Acetate | 43 | 3.672 | 3.657 | (0.879) | 10775 | 2.00000 | 2.15(Ta) |
| 134 | Cyclohexanone | 55 | 8.650 | 8.642 | (0.895) | 11759 | 40.0000 | 41.26(a) |
| 185 | Isoprene | 39 | 1.779 | 1.775 | (0.426) | 3339 | 2.00000 | 2.49(a) |
| 188 | Isopropyl acetate | 43 | 4.680 | 4.676 | (0.943) | 24959 | 2.00000 | 1.90(a) |
| 187 | n-Amyl acetate | 43 | 8.470 | 8.451 | (1.105) | 18078 | 2.00000 | 1.90(aM) |

| | | | | | | |
|---|---|---|---|---|---|---|
| 189 n-Butyl acetate | 43 | 7.229 | 7.210 (0.943) | 14580 | 2.00000 | 1.91(aM) |
| 150 Allyl alcohol | 57 | 2.776 | 2.772 (0.664) | 11222 | 40.0000 | 46.69 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| 194 Acetaldehyde | 44 | 1.209 | 1.216 | (0.289) | 4310 | 8.00000 | 13.50(M) |
| 195 Methyl Amyl Ketone | 43 | 8.395 | 8.380 | (1.095) | 20788 | 2.00000 | 1.98(a) |
| 200 Dimethyl Disulfide | 94 | 6.198 | 6.194 | (0.808) | 20124 | 2.00000 | 1.90(a) |
| 202 Isobutylene | 41 | 1.246 | 1.242 | (0.298) | 964 | 2.00000 | 2.05(aM) |
| 205 2-Ethylhexyl Acrylate | 55 | 11.566 | 11.544 | (1.197) | 8837 | 2.00000 | 2.46(aM) |

## QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

01195488

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D

Page 1

Date : 15-JUN-2023 12:39

Client ID: VSTD002

Instrument: voa6.i

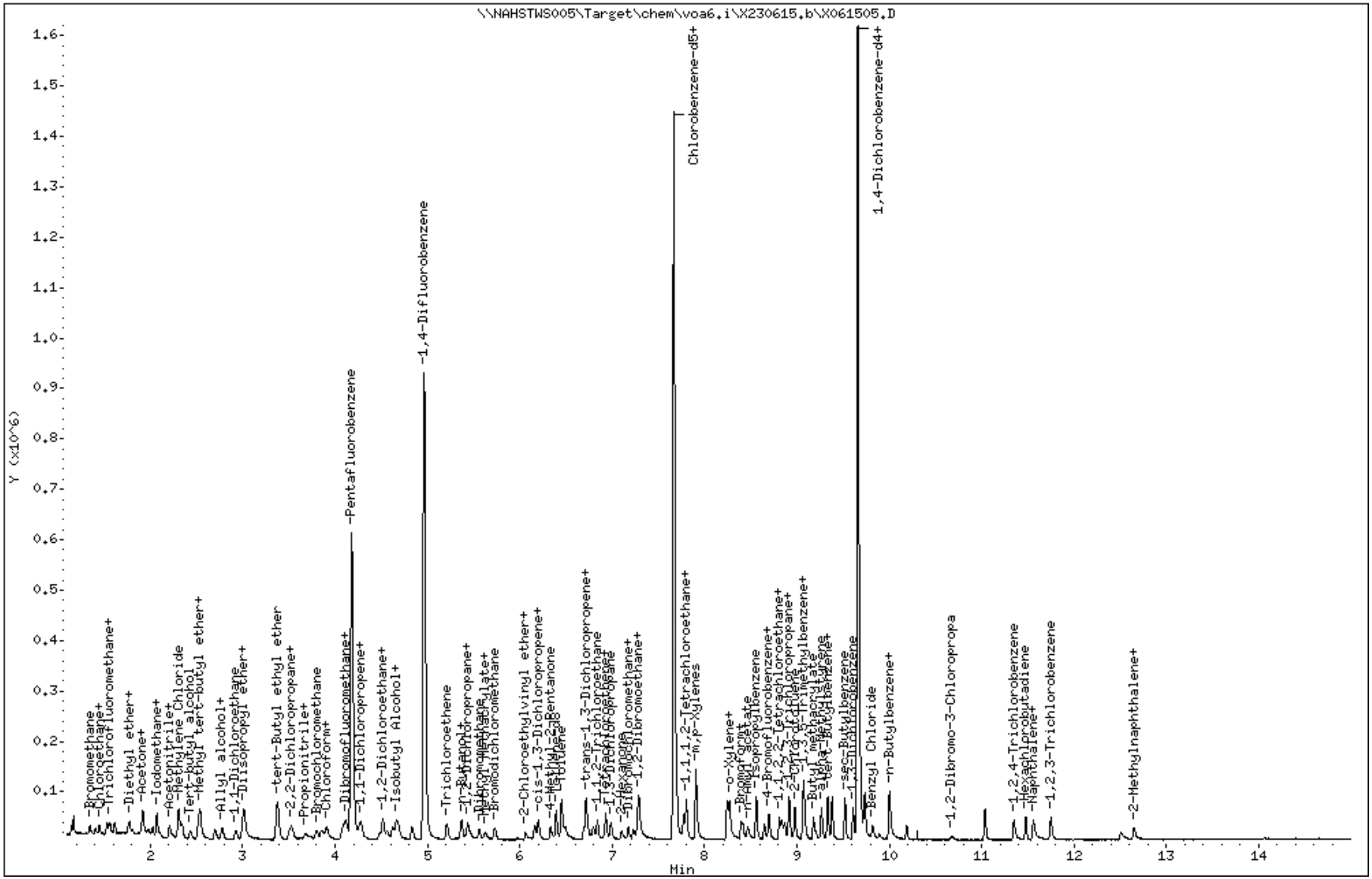
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Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18

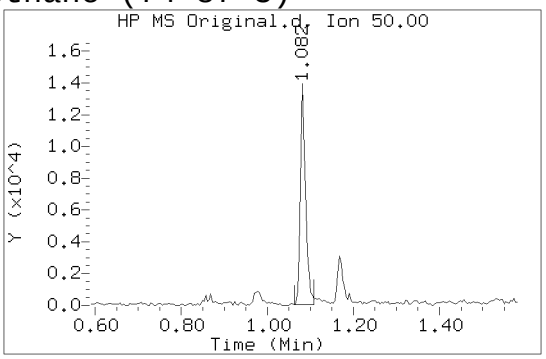


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InstruID : voa6.i
LabSampID : VSTD002

## Chloromethane (74-87-3)

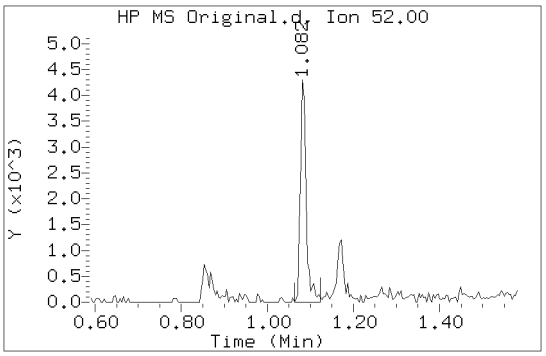
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20-Jun-2023
18:22
linh
pham




### BEFORE

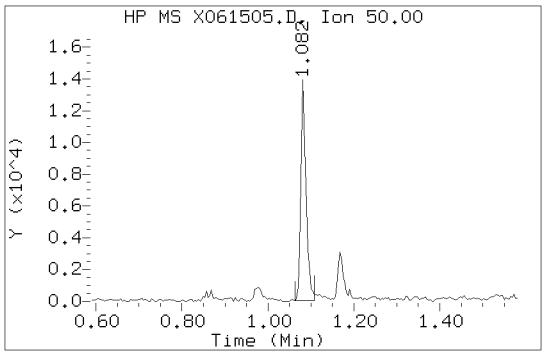
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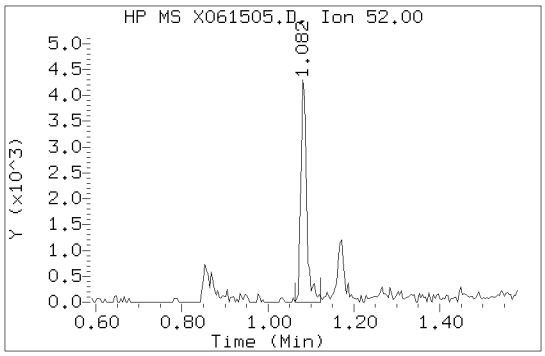
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### AFTER

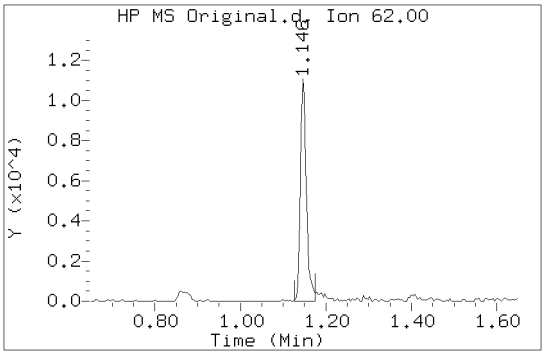
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## Vinyl Chloride (75-01-4)

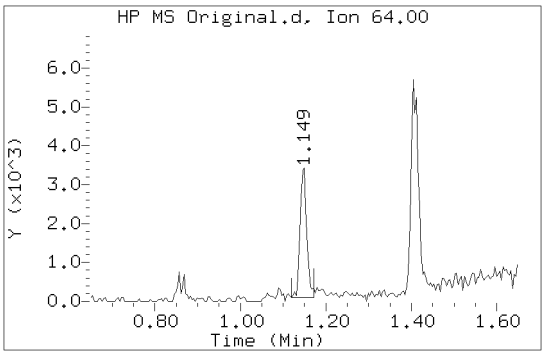
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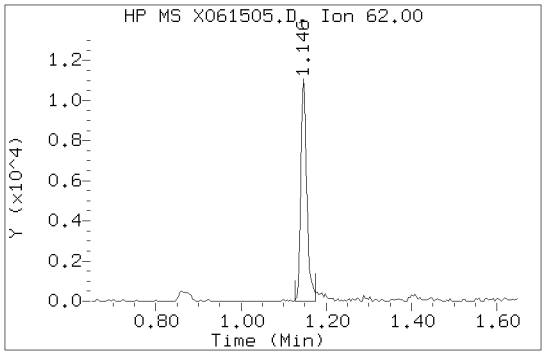
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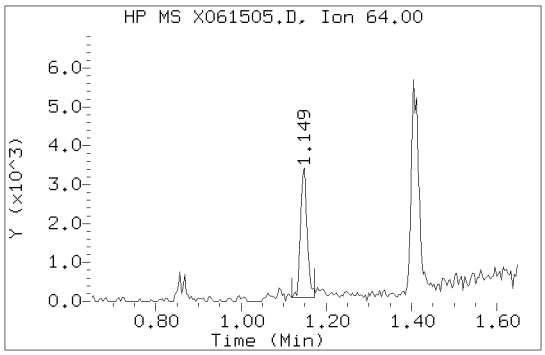
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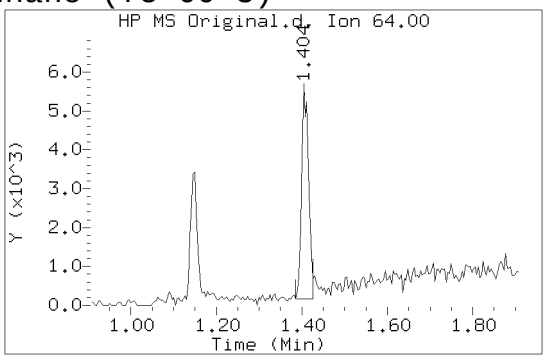


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InstruID : voa6.i
LabSampID : VSTD002

## Chloroethane (75-00-3)

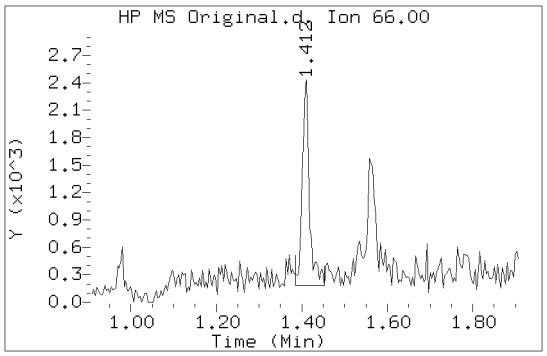
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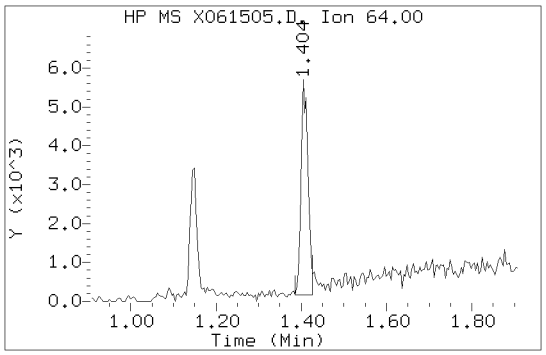
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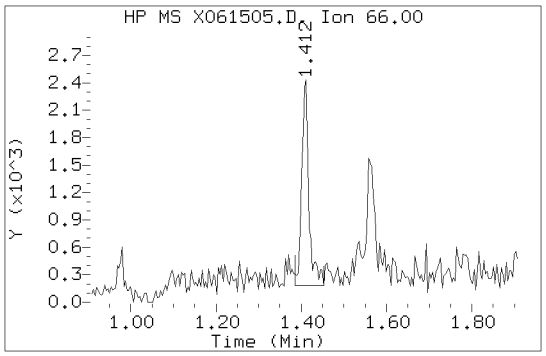
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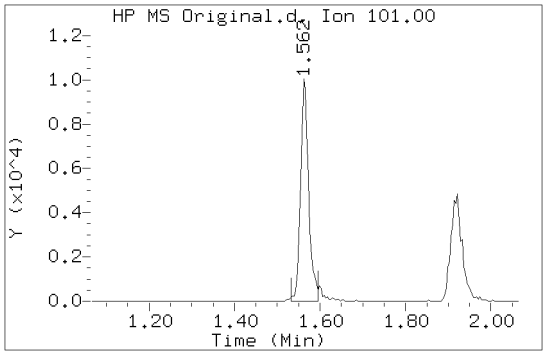
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## Trichlorofluoromethane (75-69-4)

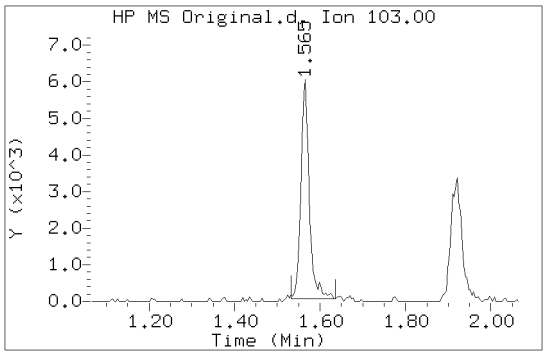
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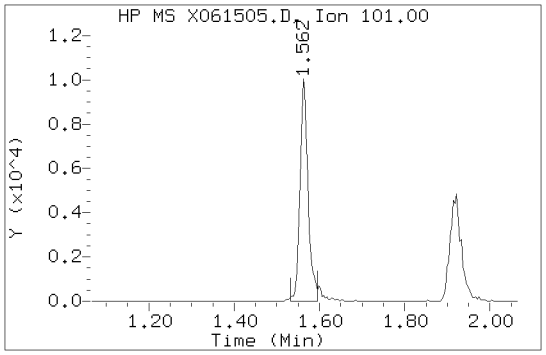
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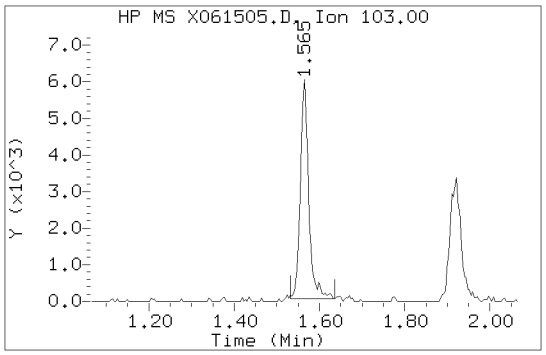
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linh
pham



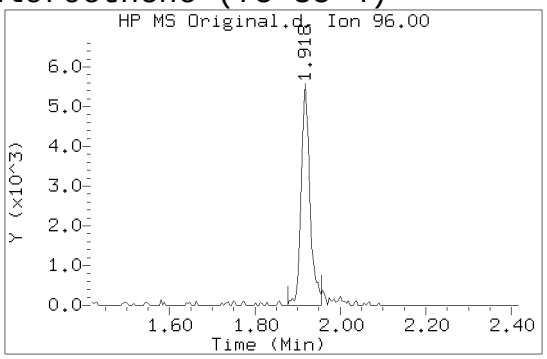
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LabSampID : VSTD002

## 1,1-Dichloroethene (75-35-4)

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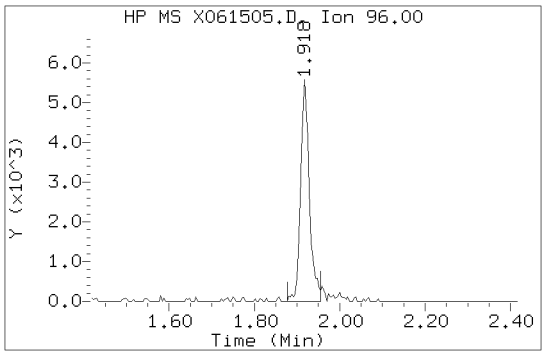
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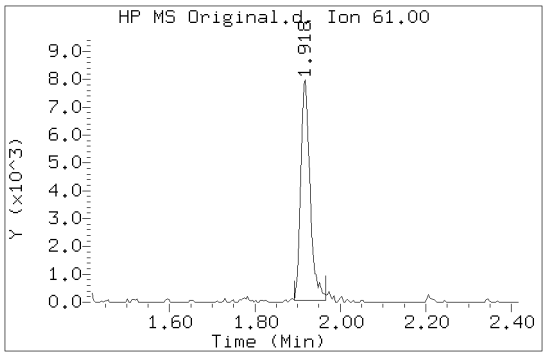

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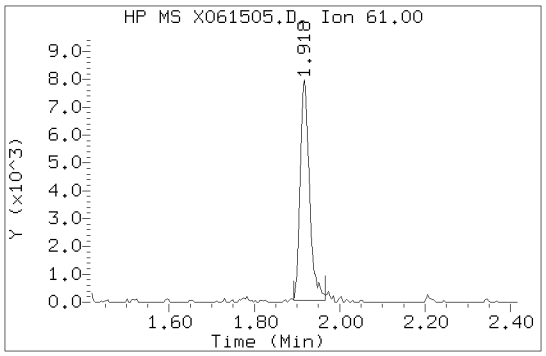

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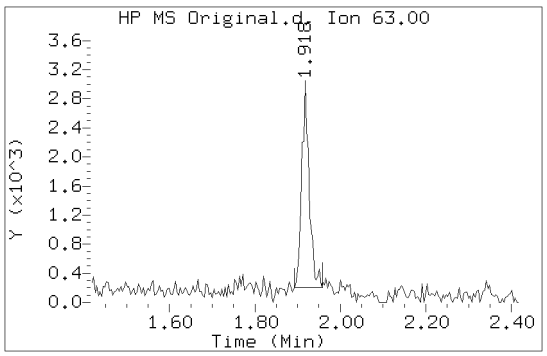

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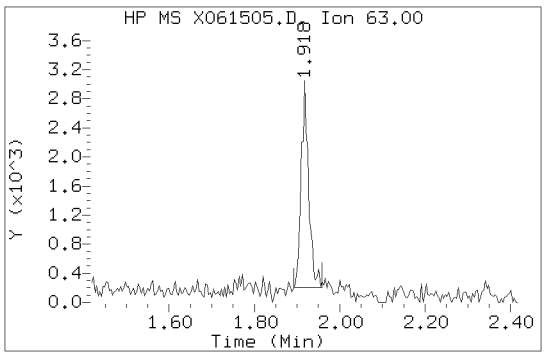

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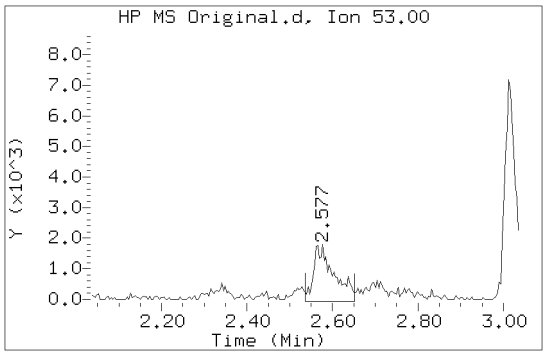



## Acrylonitrile (107-13-1)

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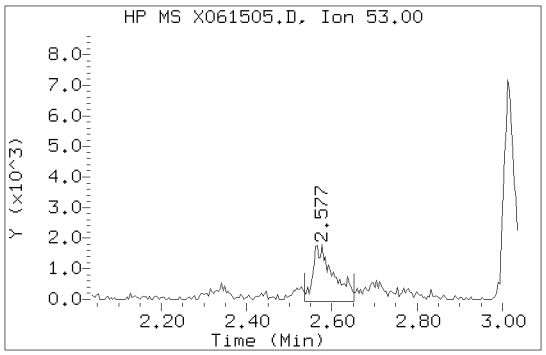
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AFTER

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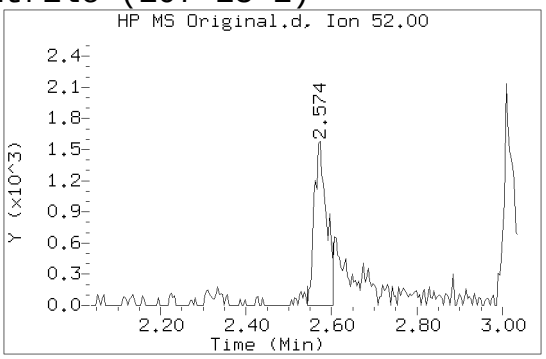


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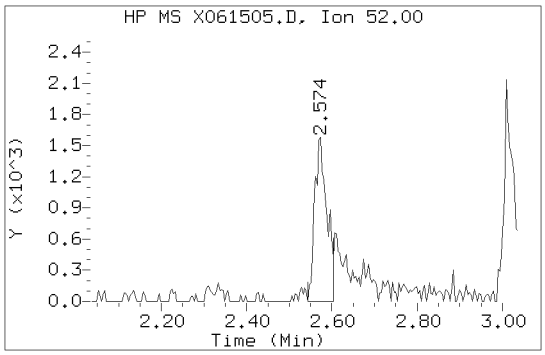
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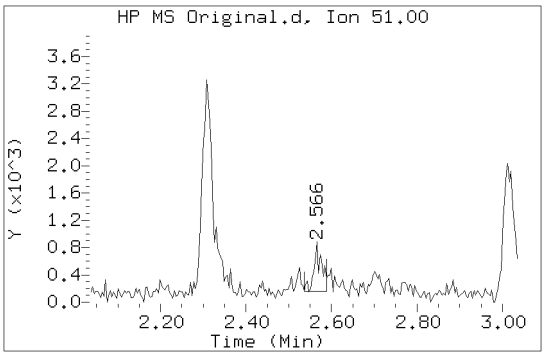
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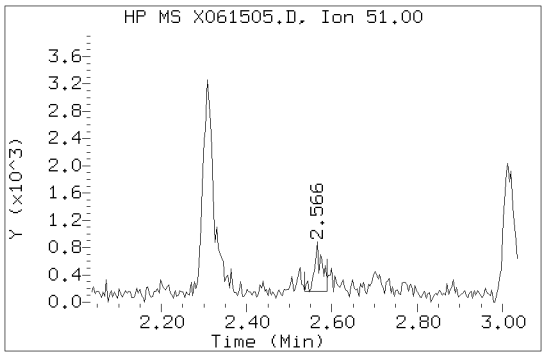

AFTER
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20-Jun-2023
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BEFORE
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linh
pham



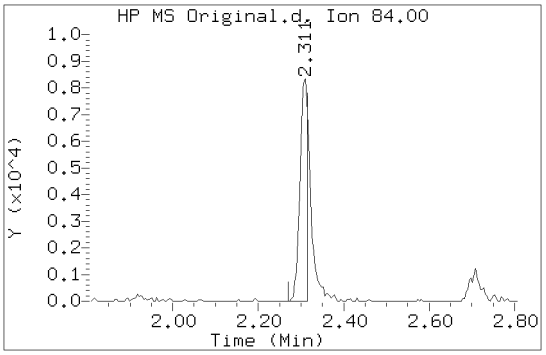

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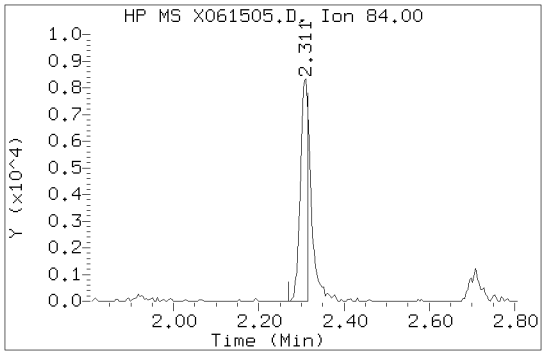

## Methylene Chloride (75-09-2)

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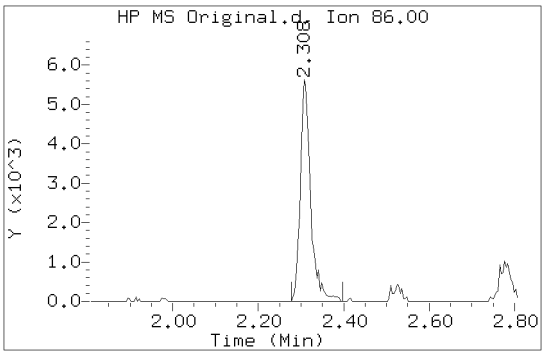
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linh
pham



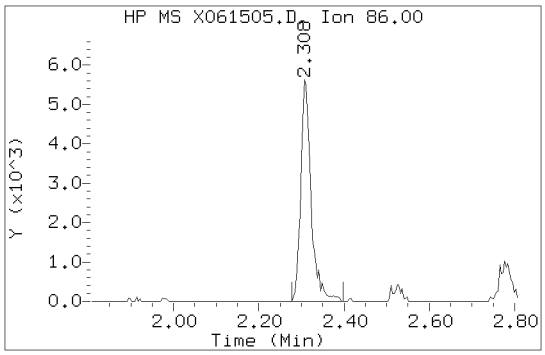

AFTER
MASS
84
AREA
10372
HEIGHT
8340
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
86
AREA
9744
HEIGHT
5630
20-Jun-2023
18:22
linh
pham




AFTER
MASS
86
AREA
9744
HEIGHT
5630
20-Jun-2023
18:22
linh
pham



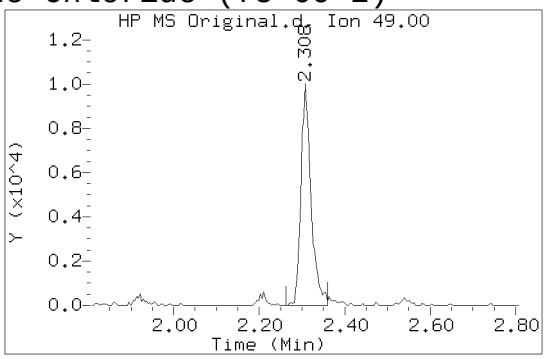
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

## Methylene Chloride (75-09-2)

Reason Code:

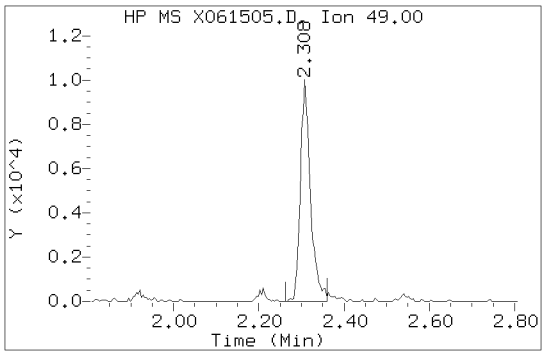
BEFORE

MASS
49
AREA
16901
HEIGHT
10016
20-Jun-2023
18:22
linh
pham




AFTER

MASS
49
AREA
16901
HEIGHT
10016
20-Jun-2023
18:22
linh
pham

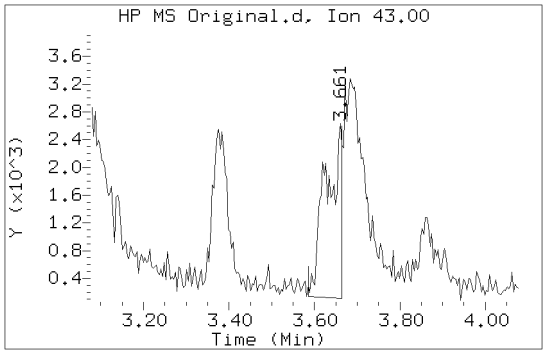



## 2-Butanone (78-93-3)

Reason Code:

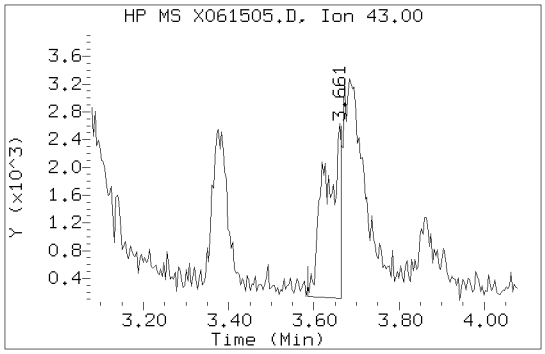
BEFORE

MASS
43
AREA
6420
HEIGHT
2515
20-Jun-2023
18:22
linh
pham



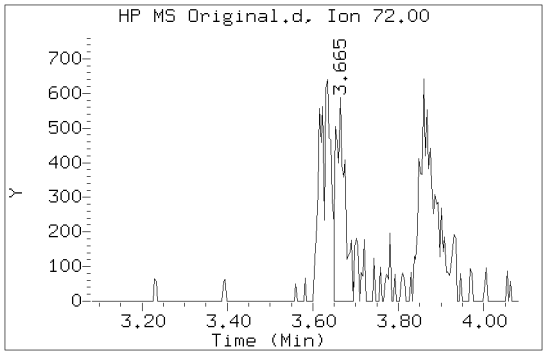

AFTER

MASS
43
AREA
6420
HEIGHT
2515
20-Jun-2023
18:22
linh
pham



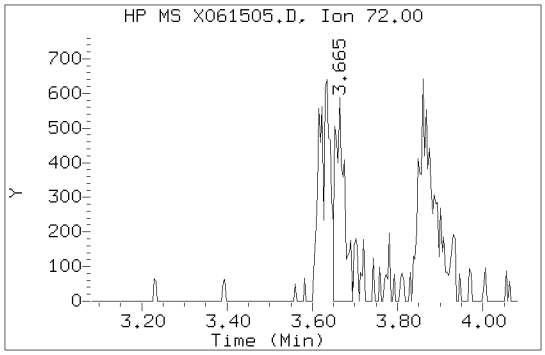

BEFORE

MASS
72
AREA
878
HEIGHT
589
20-Jun-2023
18:22
linh
pham




AFTER

MASS
72
AREA
878
HEIGHT
589
20-Jun-2023
18:22
linh
pham

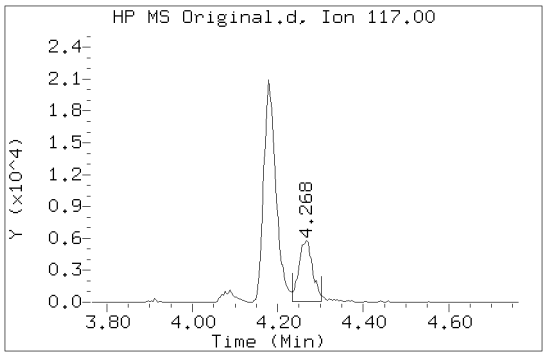



## Carbon Tetrachloride (56-23-5)

Reason Code:

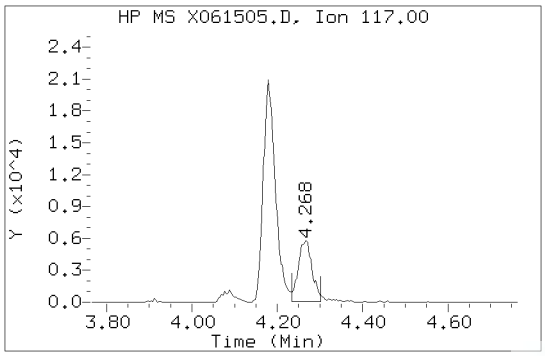
BEFORE

MASS
117
AREA
13225
HEIGHT
5768
20-Jun-2023
18:22
linh
pham




AFTER

MASS
117
AREA
13225
HEIGHT
5768
20-Jun-2023
18:22
linh
pham

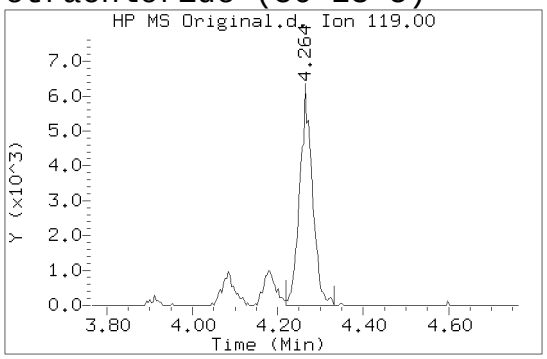


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

## Carbon Tetrachloride (56-23-5)

**BEFORE**

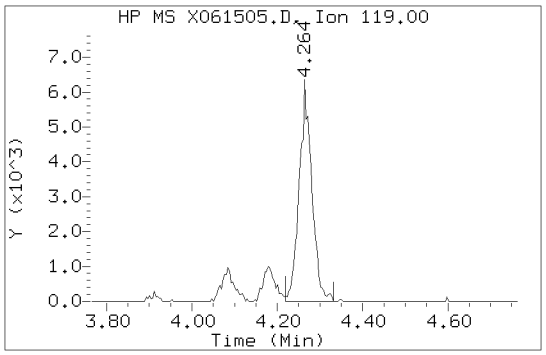
MASS
119
AREA
13241
HEIGHT
6356
20-Jun-2023
18:22
linh
pham




Reason Code:

**AFTER**

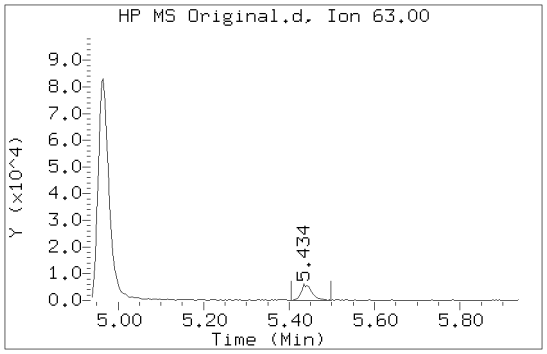
MASS
119
AREA
13241
HEIGHT
6356
20-Jun-2023
18:22
linh
pham




## 1,2-Dichloropropane (78-87-5)

**BEFORE**

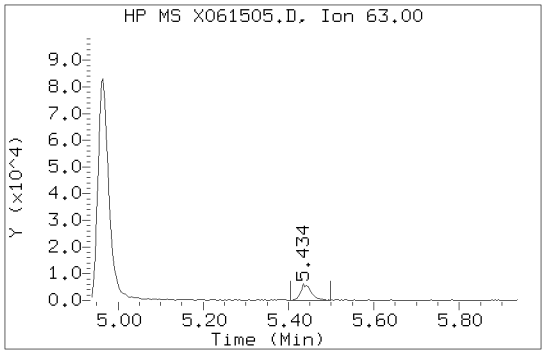
MASS
63
AREA
10261
HEIGHT
6073
20-Jun-2023
18:22
linh
pham




Reason Code:

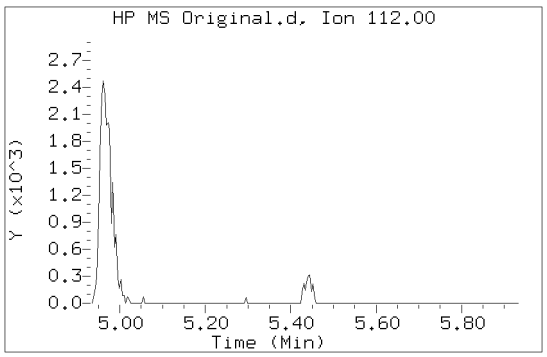
**AFTER**

MASS
63
AREA
10261
HEIGHT
6073
20-Jun-2023
18:22
linh
pham



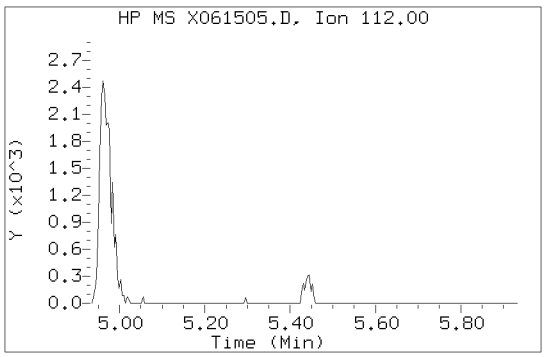

**BEFORE**

MASS
112
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




**AFTER**

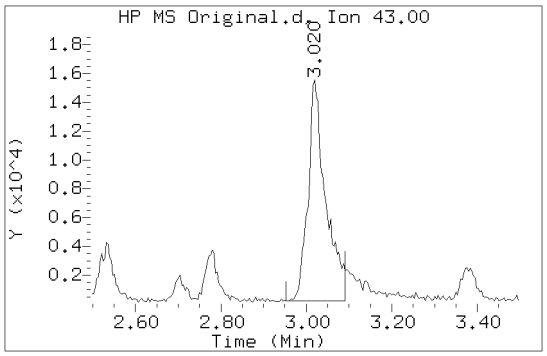
MASS
112
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




## Vinyl Acetate (108-05-4)

**BEFORE**

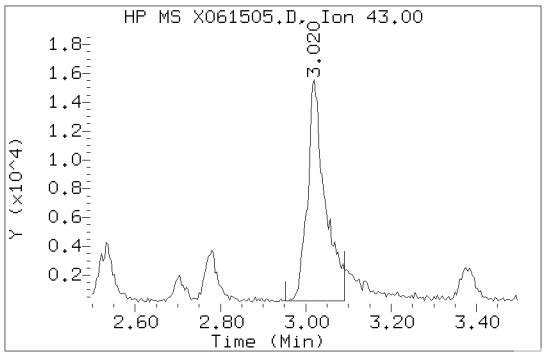
MASS
43
AREA
44460
HEIGHT
15343
20-Jun-2023
18:22
linh
pham




Reason Code:

**AFTER**

MASS
43
AREA
44460
HEIGHT
15343
20-Jun-2023
18:22
linh
pham

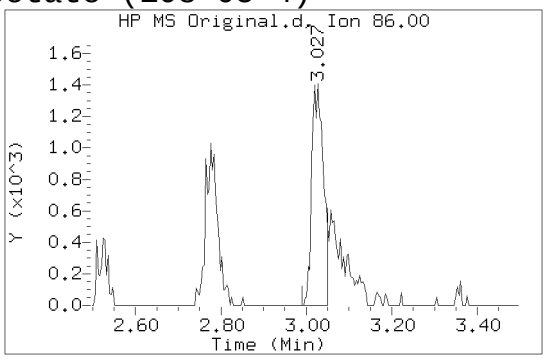


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

## Vinyl Acetate (108-05-4)

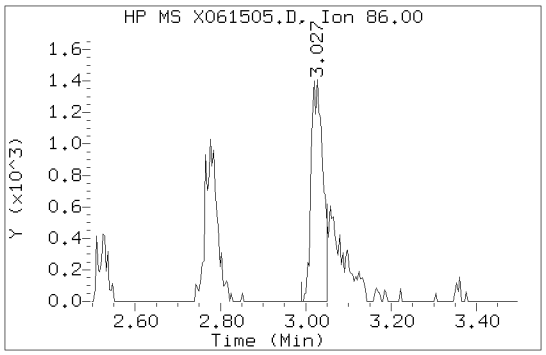
### BEFORE

MASS
86
AREA
2664
HEIGHT
1408
20-Jun-2023
18:22
linh
pham




### AFTER

MASS
86
AREA
2664
HEIGHT
1408
20-Jun-2023
18:22
linh
pham

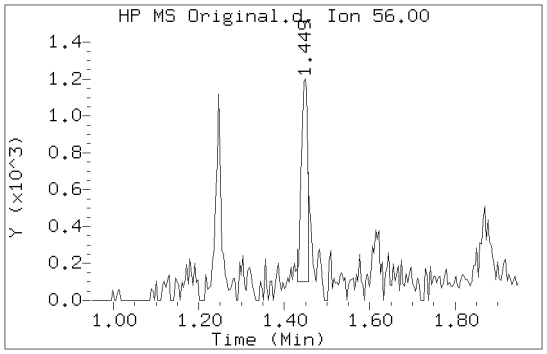



Reason Code:

## Acrolein (107-02-8 )

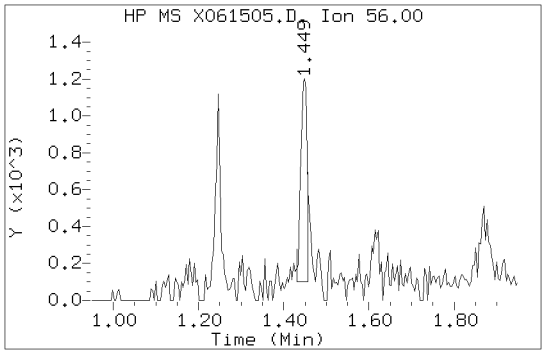
### BEFORE

MASS
56
AREA
1177
HEIGHT
1102
20-Jun-2023
18:22
linh
pham




### AFTER

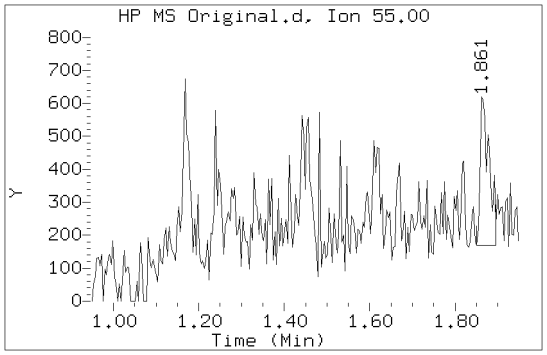
MASS
56
AREA
1177
HEIGHT
1102
20-Jun-2023
18:22
linh
pham




Reason Code:

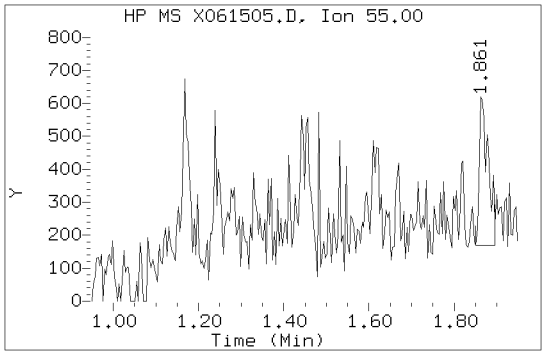
### BEFORE

MASS
55
AREA
650
HEIGHT
449
20-Jun-2023
18:22
linh
pham




### AFTER

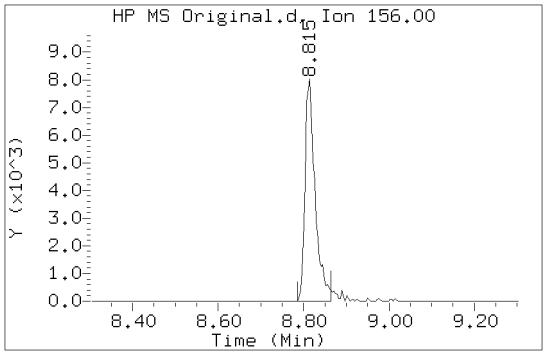
MASS
55
AREA
650
HEIGHT
449
20-Jun-2023
18:22
linh
pham




## Bromobenzene (108-86-1)

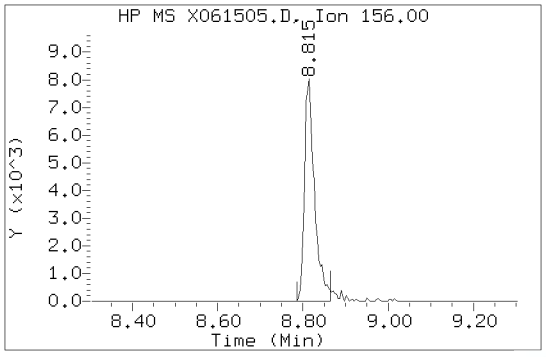
### BEFORE

MASS
156
AREA
13387
HEIGHT
8032
20-Jun-2023
18:22
linh
pham




### AFTER

MASS
156
AREA
13387
HEIGHT
8032
20-Jun-2023
18:22
linh
pham




Reason Code:

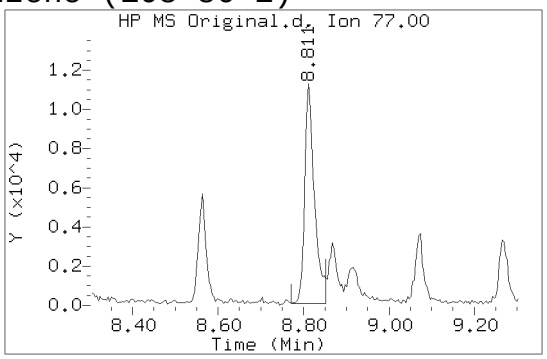
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

## Bromobenzene (108-86-1)

Reason Code:

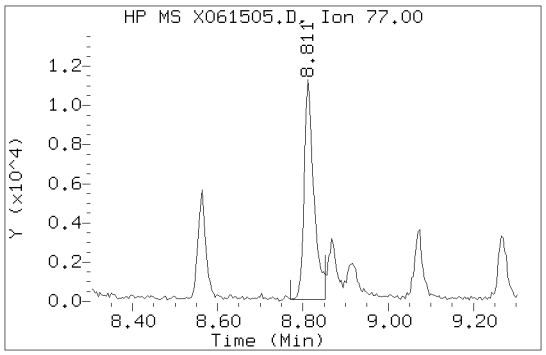
BEFORE

MASS
77
AREA
18077
HEIGHT
11211
20-Jun-2023
18:22
linh
pham



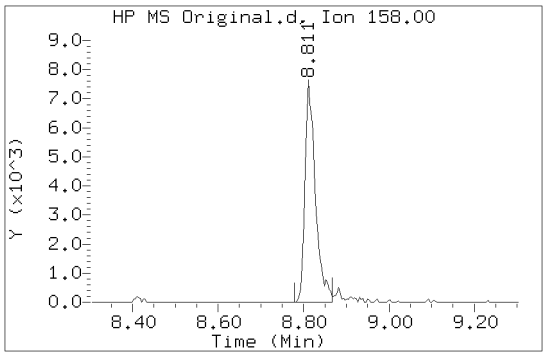

AFTER

MASS
77
AREA
18077
HEIGHT
11211
20-Jun-2023
18:22
linh
pham



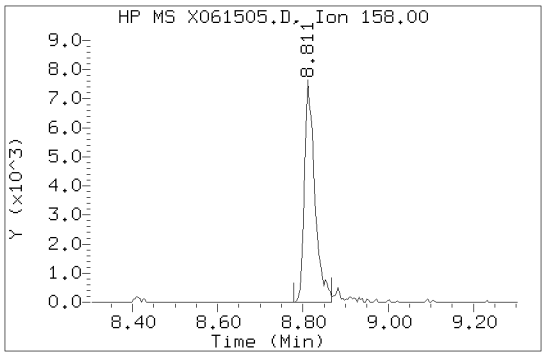

BEFORE

MASS
158
AREA
13121
HEIGHT
7648
20-Jun-2023
18:22
linh
pham




AFTER

MASS
158
AREA
13121
HEIGHT
7648
20-Jun-2023
18:22
linh
pham

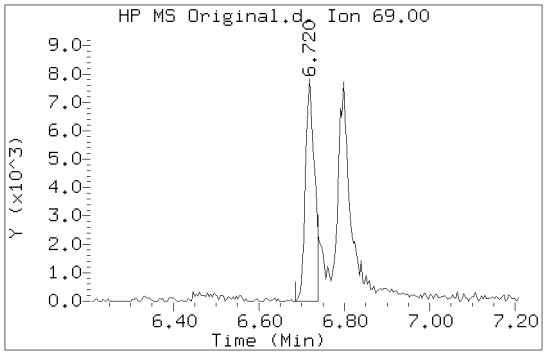



## Ethyl Methacrylate (97-63-2)

Reason Code:

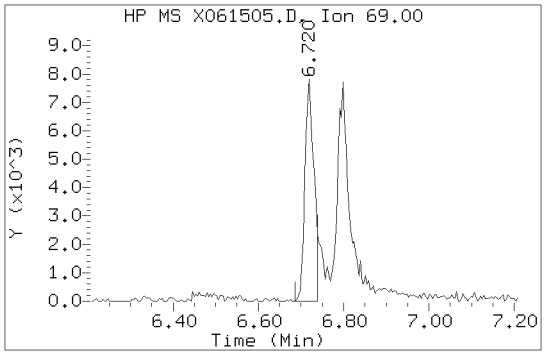
BEFORE

MASS
69
AREA
11631
HEIGHT
7830
20-Jun-2023
18:22
linh
pham



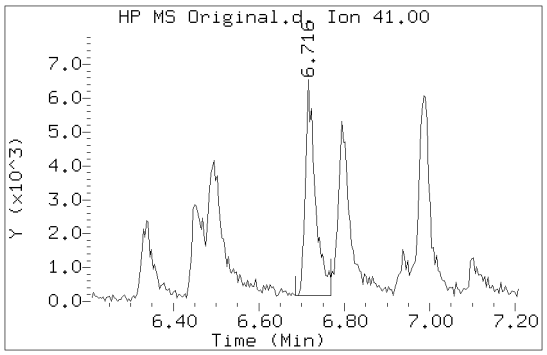

AFTER

MASS
69
AREA
11631
HEIGHT
7830
20-Jun-2023
18:22
linh
pham



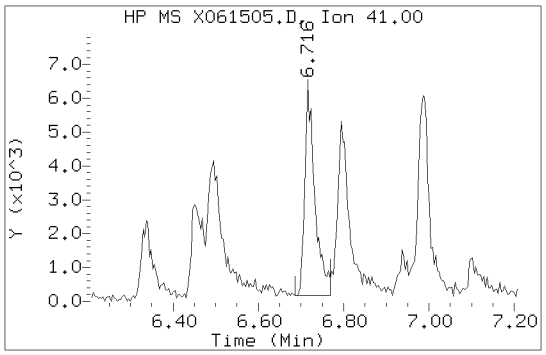

BEFORE

MASS
41
AREA
10404
HEIGHT
6367
20-Jun-2023
18:22
linh
pham




AFTER

MASS
41
AREA
10404
HEIGHT
6367
20-Jun-2023
18:22
linh
pham



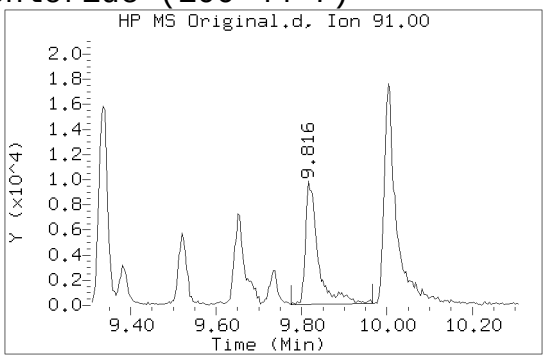
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

## Benzyl Chloride (100-44-7)

Reason Code:

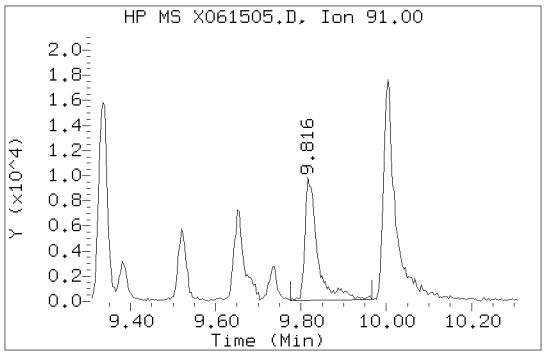
**BEFORE**

MASS
91
AREA
20389
HEIGHT
9812
20-Jun-2023
18:22
linh
pham



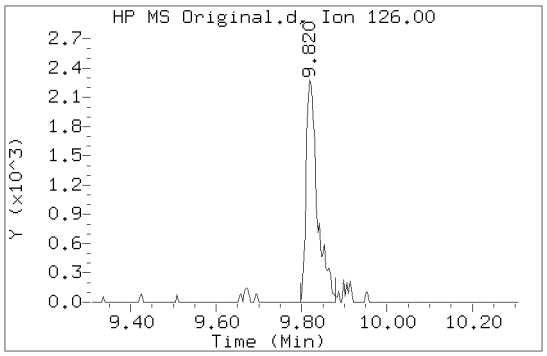

**AFTER**

MASS
91
AREA
20389
HEIGHT
9812
20-Jun-2023
18:22
linh
pham



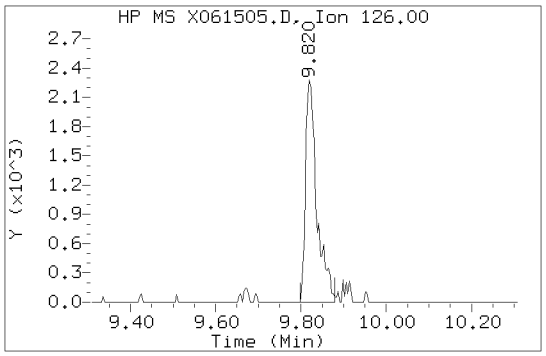

**BEFORE**

MASS
126
AREA
4211
HEIGHT
2279
20-Jun-2023
18:22
linh
pham



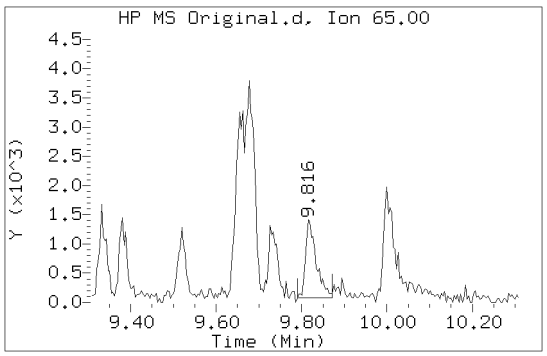

**AFTER**

MASS
126
AREA
4211
HEIGHT
2279
20-Jun-2023
18:22
linh
pham



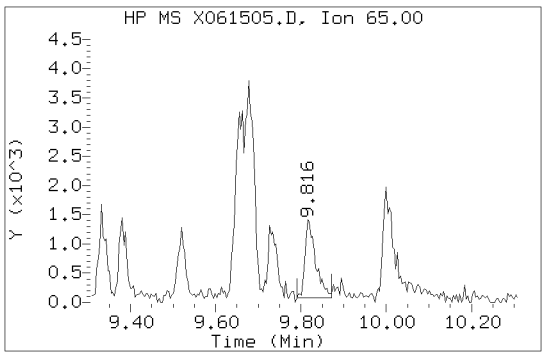

**BEFORE**

MASS
65
AREA
2345
HEIGHT
1335
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
65
AREA
2345
HEIGHT
1335
20-Jun-2023
18:22
linh
pham

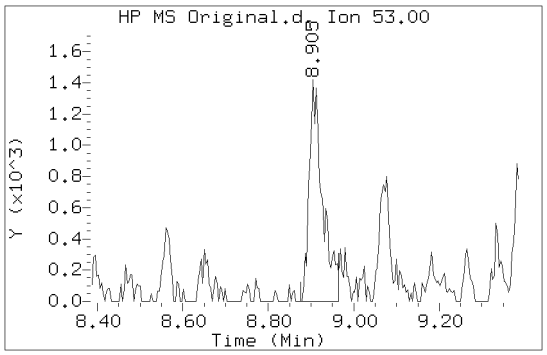



## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

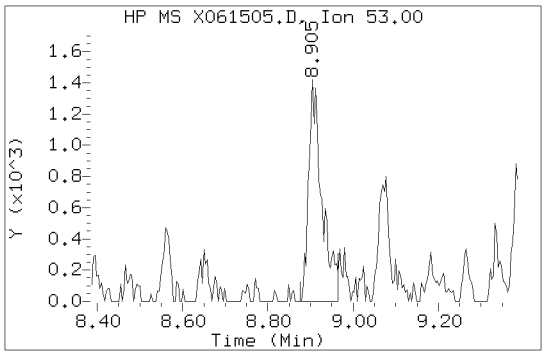
**BEFORE**

MASS
53
AREA
3093
HEIGHT
1420
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
53
AREA
3093
HEIGHT
1420
20-Jun-2023
18:22
linh
pham



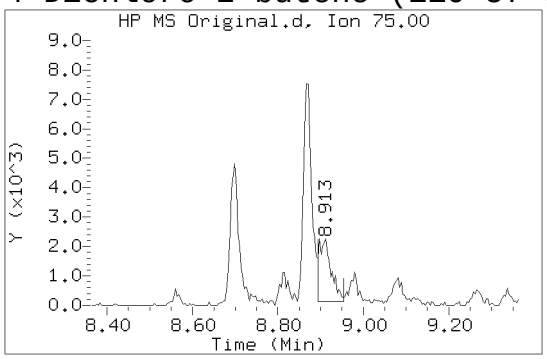
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

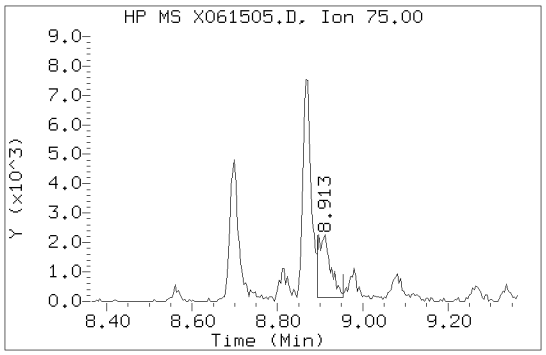
**BEFORE**

MASS
75
AREA
4233
HEIGHT
2139
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
75
AREA
4233
HEIGHT
2139
20-Jun-2023
18:22
linh
pham

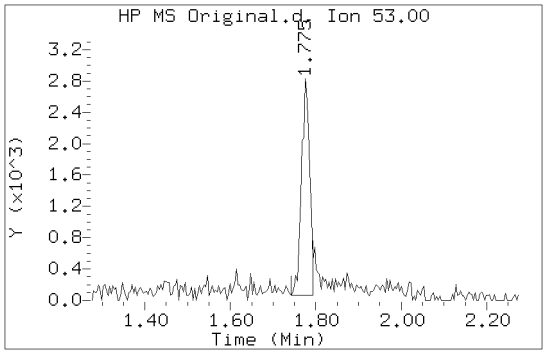



## Chloroprene (126-99-8)

Reason Code:

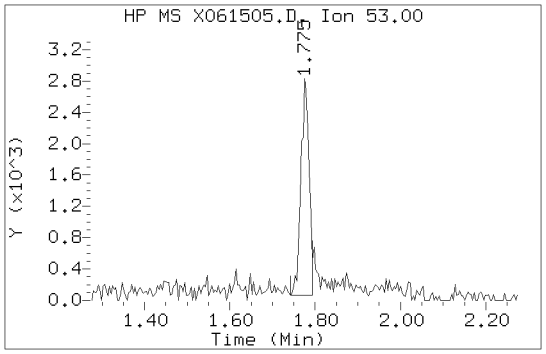
**BEFORE**

MASS
53
AREA
3814
HEIGHT
2765
20-Jun-2023
18:22
linh
pham



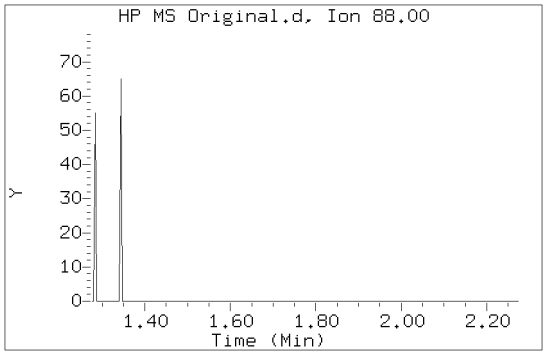

**AFTER**

MASS
53
AREA
3814
HEIGHT
2765
20-Jun-2023
18:22
linh
pham



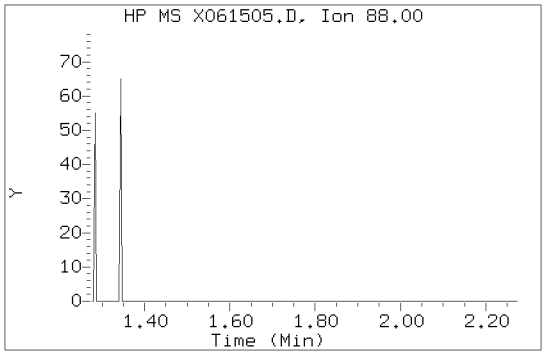

**BEFORE**

MASS
88
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
88
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

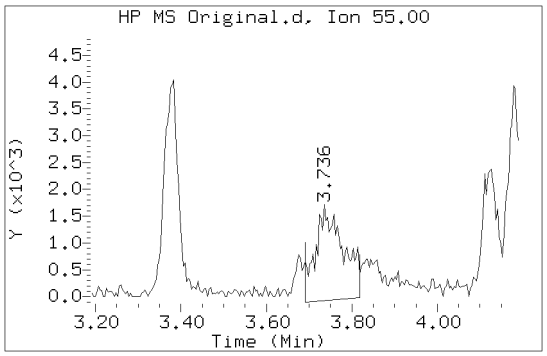



## Methyl Acrylate (96-33-3)

Reason Code:

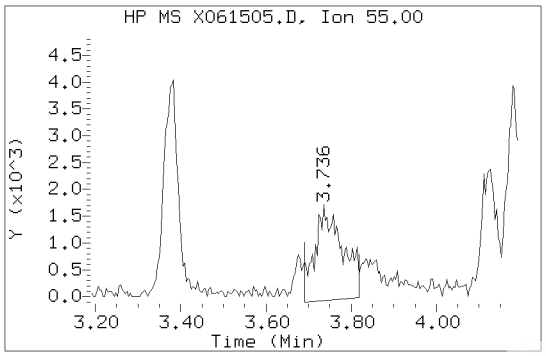
**BEFORE**

MASS
55
AREA
8064
HEIGHT
1791
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
55
AREA
8064
HEIGHT
1791
20-Jun-2023
18:22
linh
pham

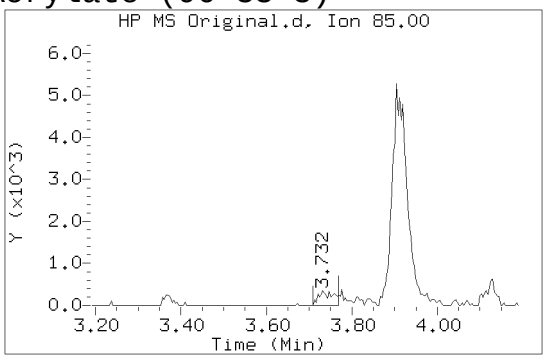


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

## Methyl Acrylate (96-33-3)

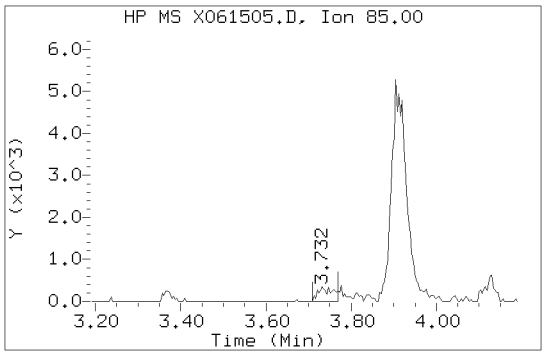
**BEFORE**

MASS
85
AREA
844
HEIGHT
344
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
85
AREA
844
HEIGHT
344
20-Jun-2023
18:22
linh
pham

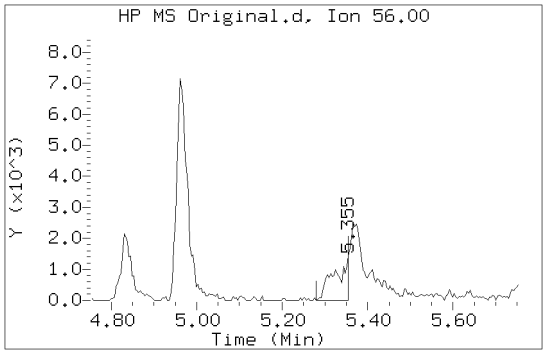



Reason Code:

## n-Butanol (71-36-3)

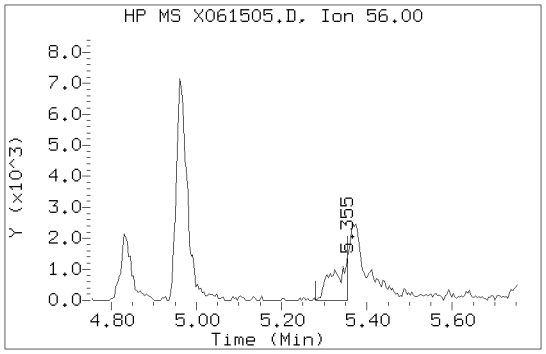
**BEFORE**

MASS
56
AREA
3179
HEIGHT
1448
20-Jun-2023
18:22
linh
pham




**AFTER**

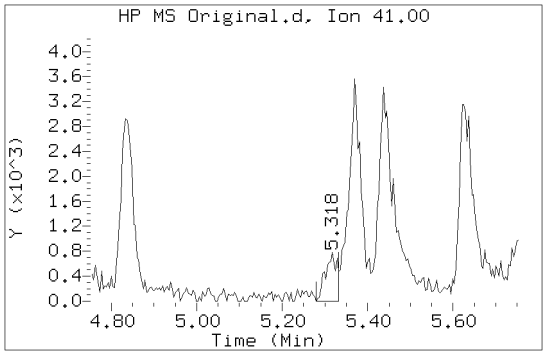
MASS
56
AREA
3179
HEIGHT
1448
20-Jun-2023
18:22
linh
pham




Reason Code:

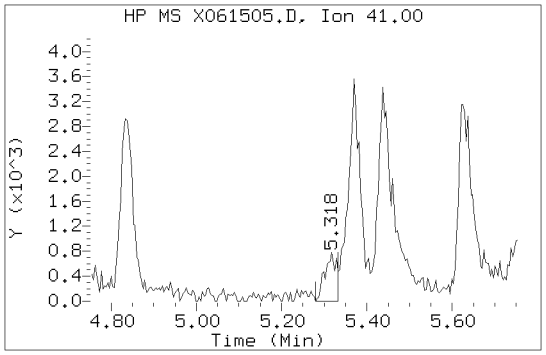
**BEFORE**

MASS
41
AREA
1455
HEIGHT
782
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
41
AREA
1455
HEIGHT
782
20-Jun-2023
18:22
linh
pham

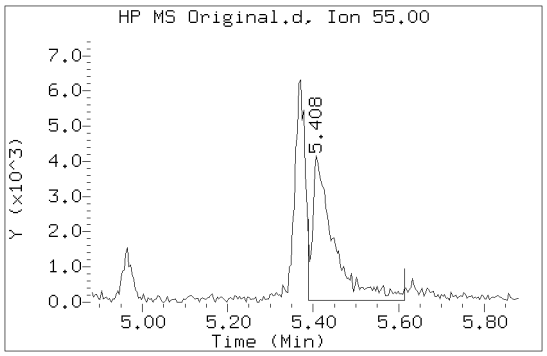



Reason Code:

## Ethyl Acrylate (140-88-5)

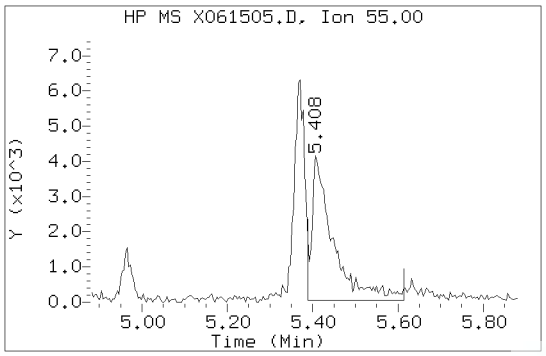
**BEFORE**

MASS
55
AREA
14275
HEIGHT
4107
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
55
AREA
14275
HEIGHT
4107
20-Jun-2023
18:22
linh
pham




Reason Code:

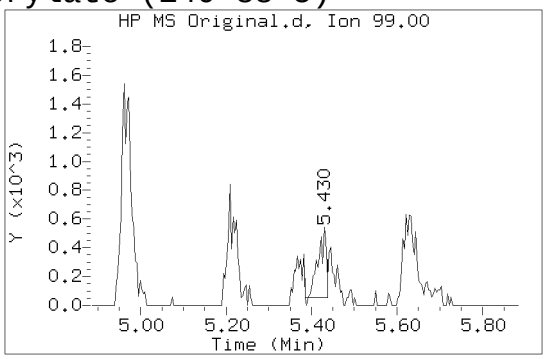
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

## Ethyl Acrylate (140-88-5)

Reason Code:

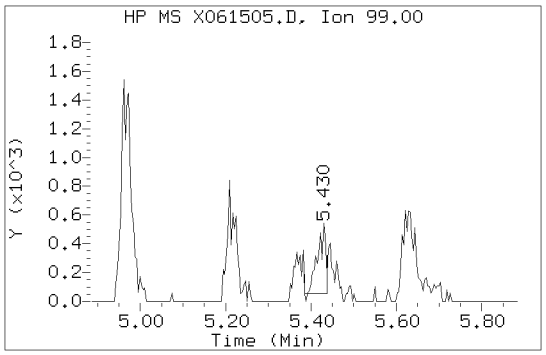
BEFORE

MASS
99
AREA
625
HEIGHT
488
20-Jun-2023
18:22
linh
pham




AFTER

MASS
99
AREA
625
HEIGHT
488
20-Jun-2023
18:22
linh
pham

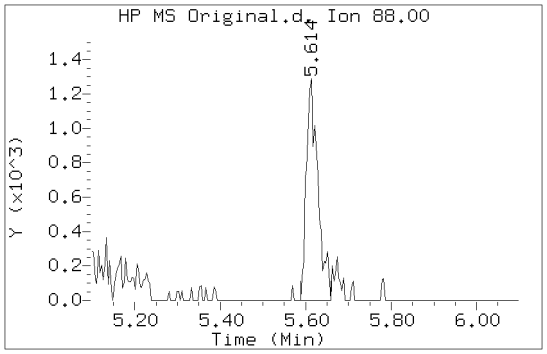



## 1,4-Dioxane ()

Reason Code:

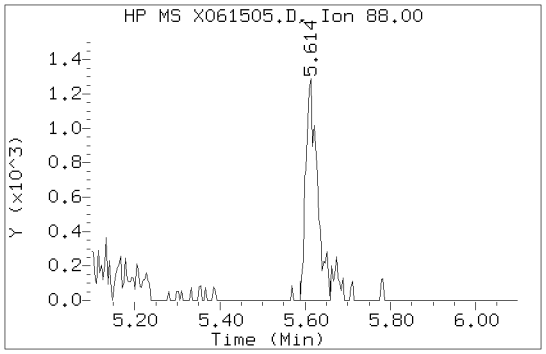
BEFORE

MASS
88
AREA
2444
HEIGHT
1289
20-Jun-2023
18:22
linh
pham



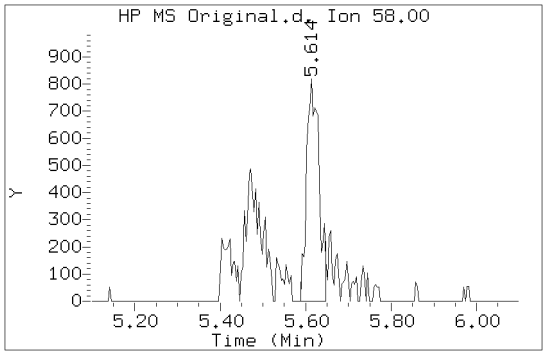

AFTER

MASS
88
AREA
2444
HEIGHT
1289
20-Jun-2023
18:22
linh
pham



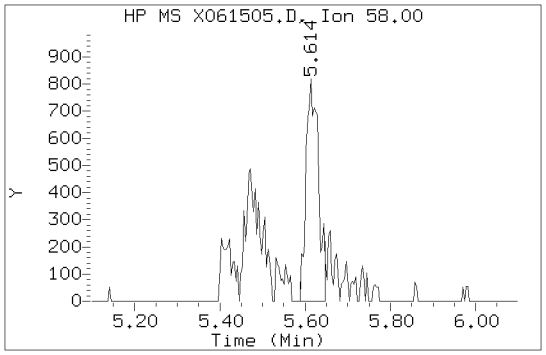

BEFORE

MASS
58
AREA
1653
HEIGHT
819
20-Jun-2023
18:22
linh
pham




AFTER

MASS
58
AREA
1653
HEIGHT
819
20-Jun-2023
18:22
linh
pham

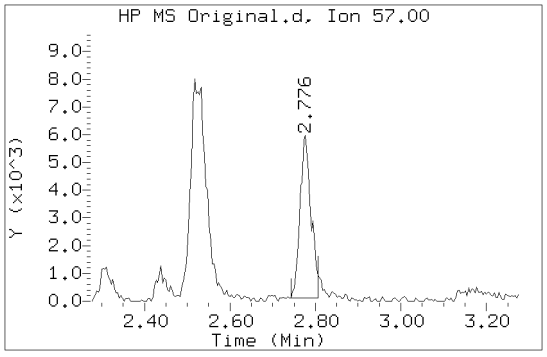



## n-Hexane (110-54-3)

Reason Code:

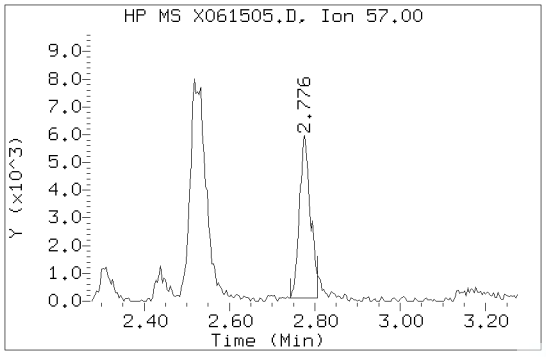
BEFORE

MASS
57
AREA
10696
HEIGHT
5866
20-Jun-2023
18:22
linh
pham




AFTER

MASS
57
AREA
10696
HEIGHT
5866
20-Jun-2023
18:22
linh
pham

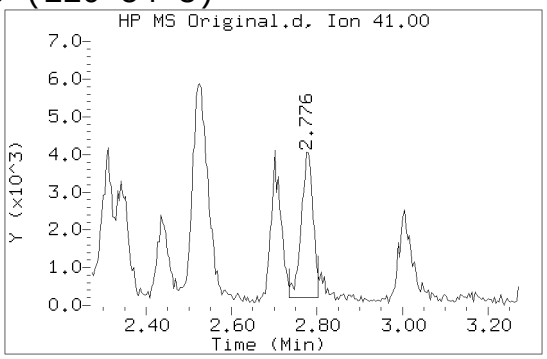


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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

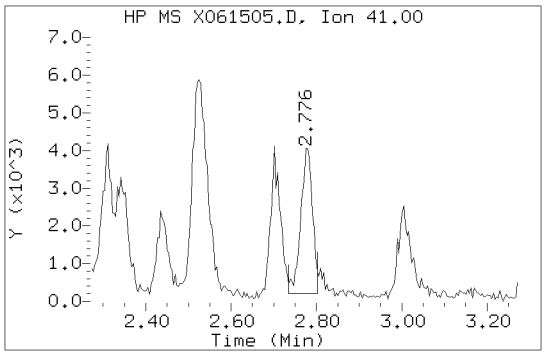
## n-Hexane (110-54-3)

Reason Code:

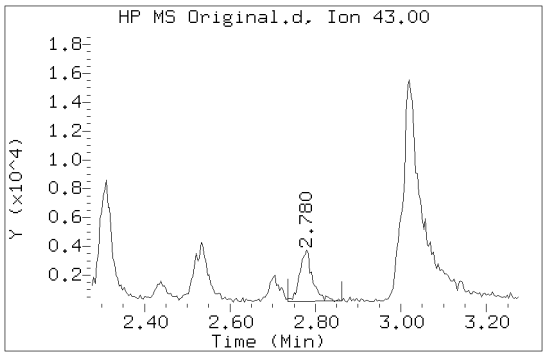
BEFORE
MASS
41
AREA
7540
HEIGHT
3854
20-Jun-2023
18:22
linh
pham



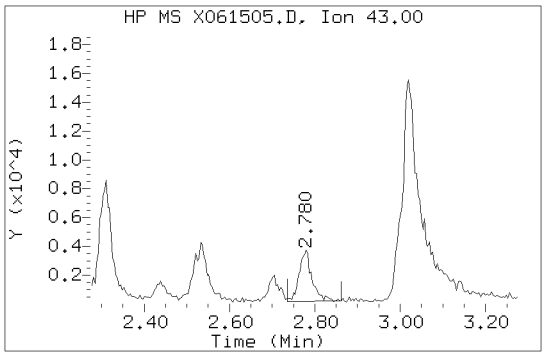

AFTER
MASS
41
AREA
7540
HEIGHT
3854
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
43
AREA
7477
HEIGHT
3518
20-Jun-2023
18:22
linh
pham



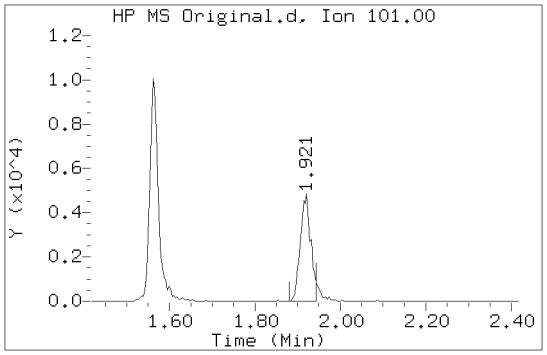

AFTER
MASS
43
AREA
7477
HEIGHT
3518
20-Jun-2023
18:22
linh
pham



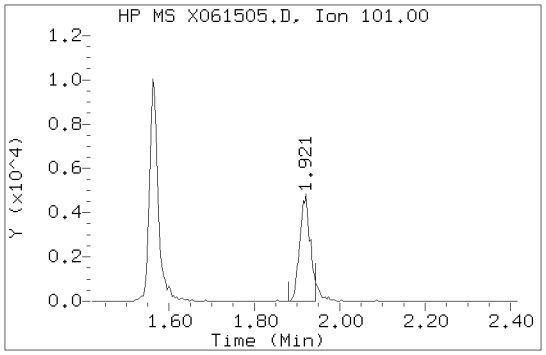

## Freon TF (76-13-1)

Reason Code:

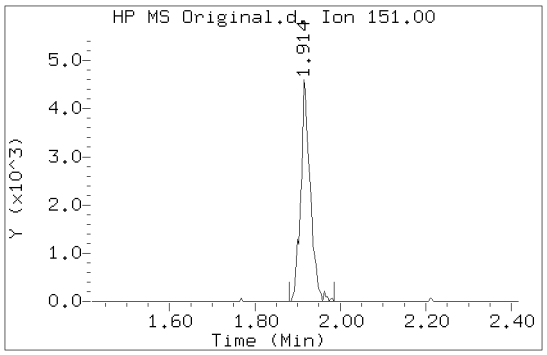
BEFORE
MASS
101
AREA
8361
HEIGHT
4850
20-Jun-2023
18:22
linh
pham



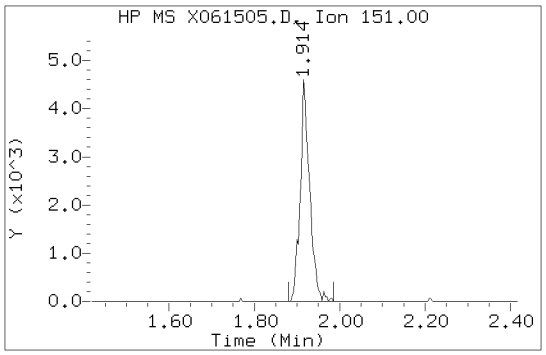

AFTER
MASS
101
AREA
8361
HEIGHT
4850
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
151
AREA
7295
HEIGHT
4601
20-Jun-2023
18:22
linh
pham




AFTER
MASS
151
AREA
7295
HEIGHT
4601
20-Jun-2023
18:22
linh
pham

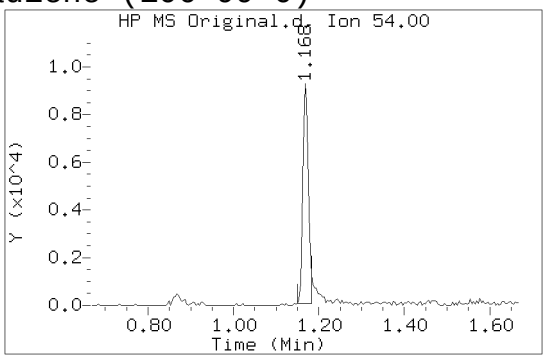


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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

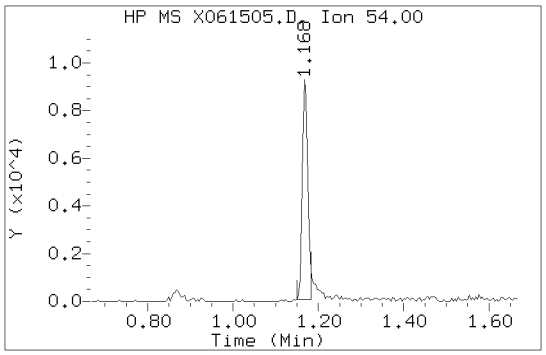
## 1,3-Butadiene (106-99-0)

Reason Code:

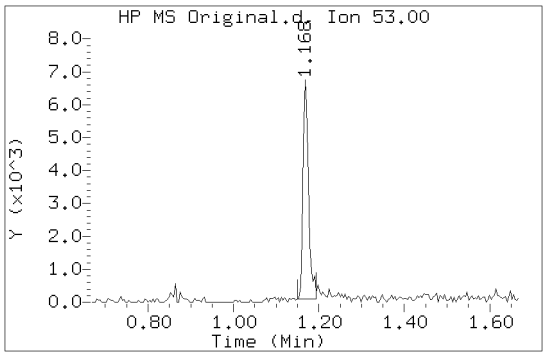
BEFORE
MASS
54
AREA
8478
HEIGHT
9216
20-Jun-2023
18:22
linh
pham



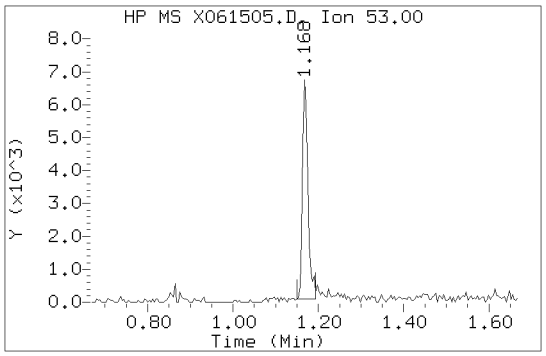

AFTER
MASS
54
AREA
8478
HEIGHT
9216
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
53
AREA
6095
HEIGHT
6659
20-Jun-2023
18:22
linh
pham



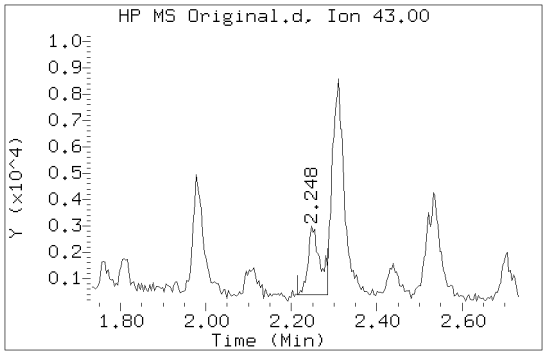

AFTER
MASS
53
AREA
6095
HEIGHT
6659
20-Jun-2023
18:22
linh
pham



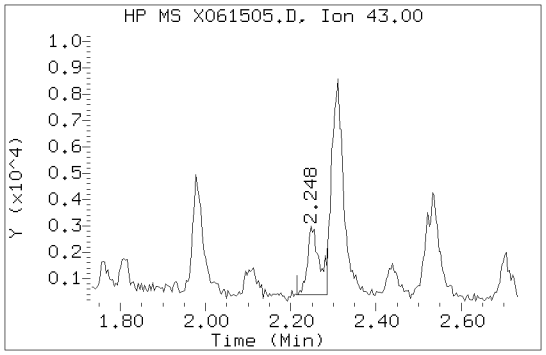

## Methyl acetate (79-20-9)

Reason Code:

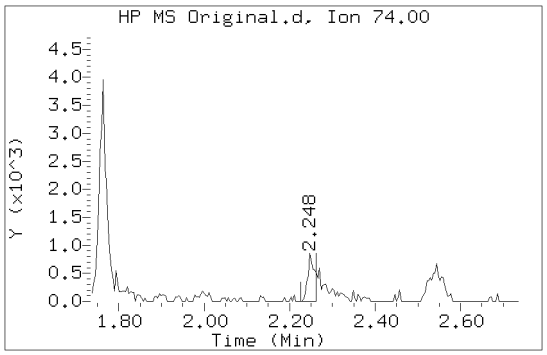
BEFORE
MASS
43
AREA
5157
HEIGHT
2617
20-Jun-2023
18:22
linh
pham



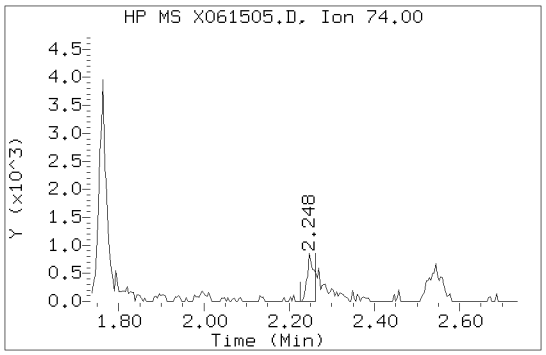

AFTER
MASS
43
AREA
5157
HEIGHT
2617
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
74
AREA
940
HEIGHT
855
20-Jun-2023
18:22
linh
pham




AFTER
MASS
74
AREA
940
HEIGHT
855
20-Jun-2023
18:22
linh
pham

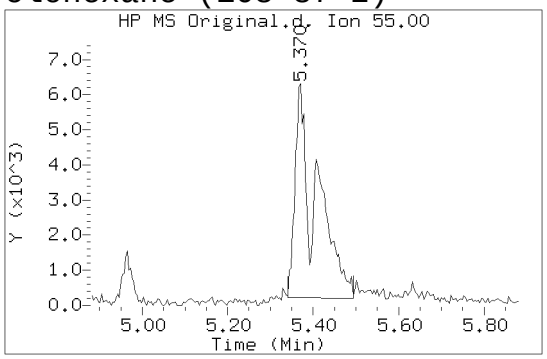


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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

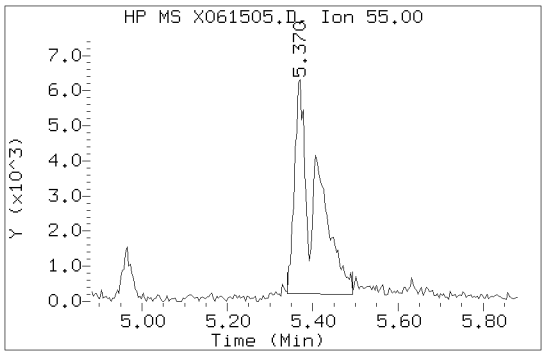
## Methylcyclohexane (108-87-2)

Reason Code:

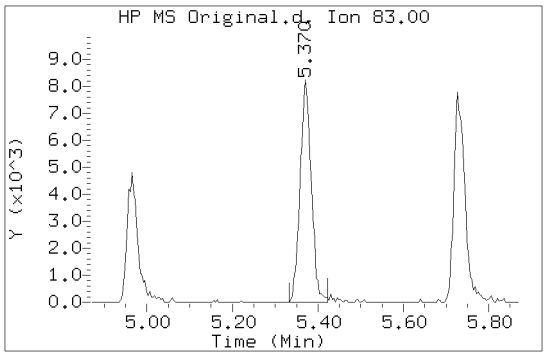
BEFORE
MASS
55
AREA
20990
HEIGHT
6091
20-Jun-2023
18:22
linh
pham



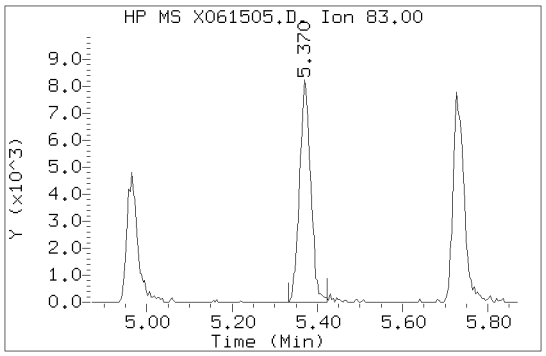

AFTER
MASS
55
AREA
20990
HEIGHT
6091
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
83
AREA
15282
HEIGHT
8235
20-Jun-2023
18:22
linh
pham



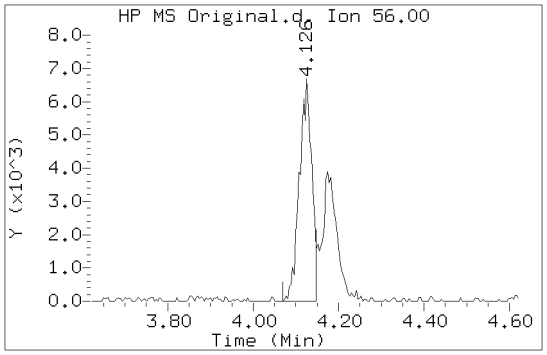

AFTER
MASS
83
AREA
15282
HEIGHT
8235
20-Jun-2023
18:22
linh
pham



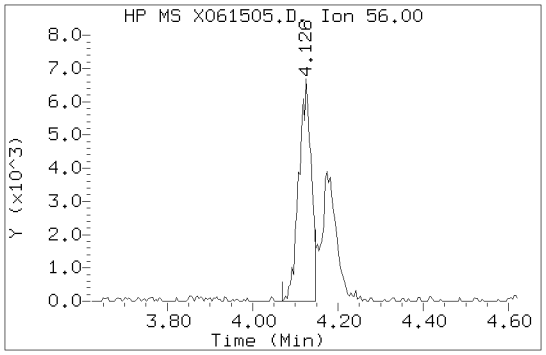

## Cyclohexane (110-82-7)

Reason Code:

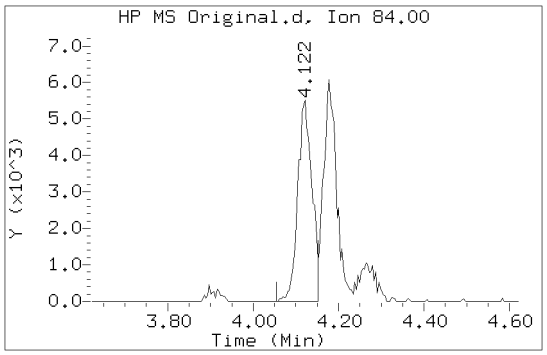
BEFORE
MASS
56
AREA
13787
HEIGHT
6686
20-Jun-2023
18:22
linh
pham



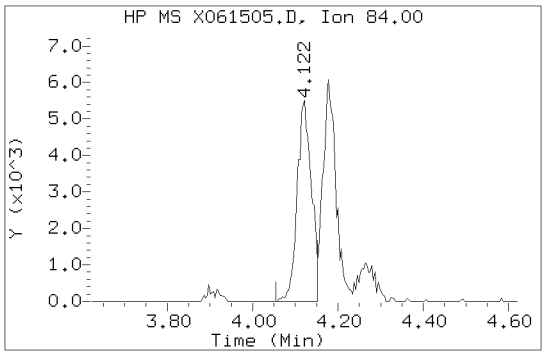

AFTER
MASS
56
AREA
13787
HEIGHT
6686
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
84
AREA
12922
HEIGHT
5508
20-Jun-2023
18:22
linh
pham




AFTER
MASS
84
AREA
12922
HEIGHT
5508
20-Jun-2023
18:22
linh
pham



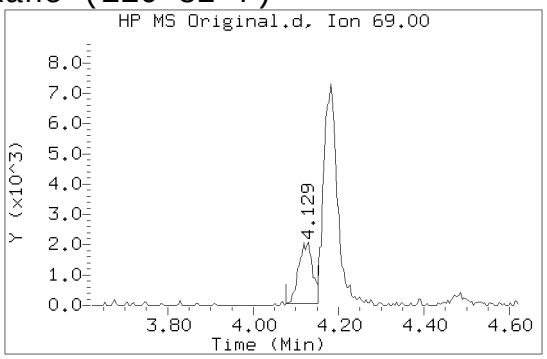
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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

## Cyclohexane (110-82-7)

Reason Code:

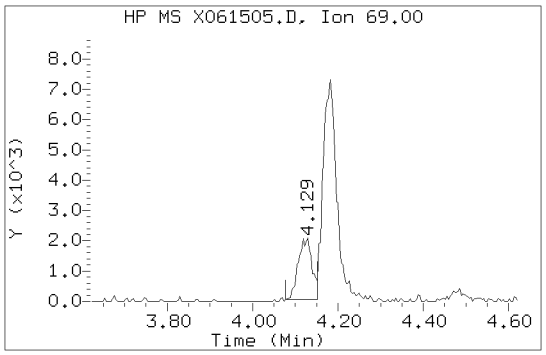
**BEFORE**

MASS
69
AREA
4668
HEIGHT
2038
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
69
AREA
4668
HEIGHT
2038
20-Jun-2023
18:22
linh
pham

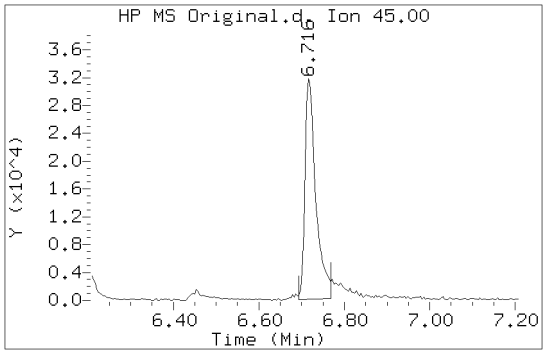



## 4-Methyl-2-pentanol (108-11-2)

Reason Code:

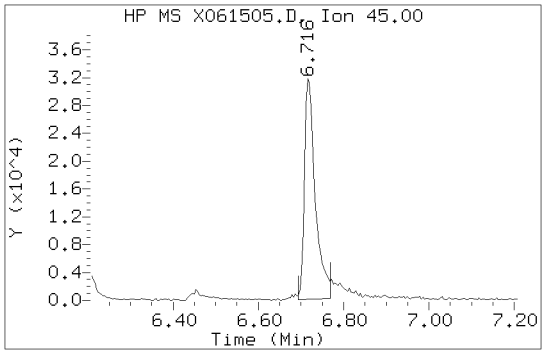
**BEFORE**

MASS
45
AREA
56864
HEIGHT
31680
20-Jun-2023
18:22
linh
pham



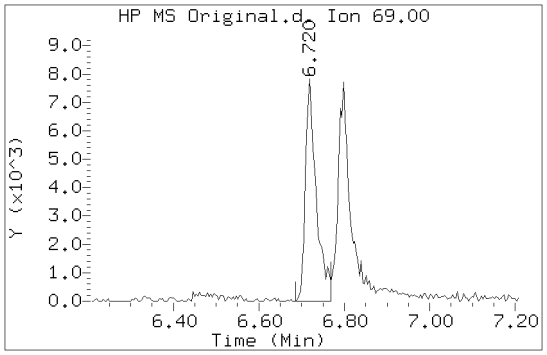

**AFTER**

MASS
45
AREA
56864
HEIGHT
31680
20-Jun-2023
18:22
linh
pham



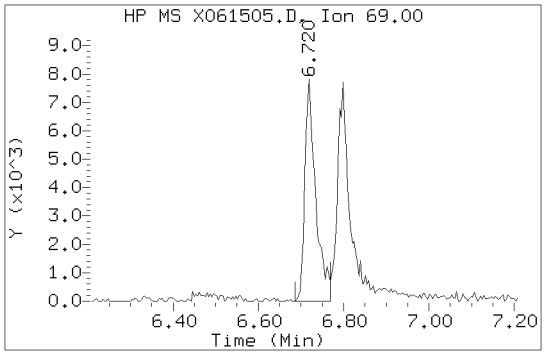

**BEFORE**

MASS
69
AREA
14049
HEIGHT
7830
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
69
AREA
14049
HEIGHT
7830
20-Jun-2023
18:22
linh
pham

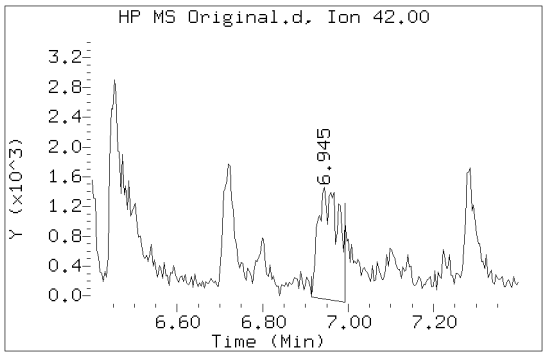



## Amyl alcohol (71-41-0)

Reason Code:

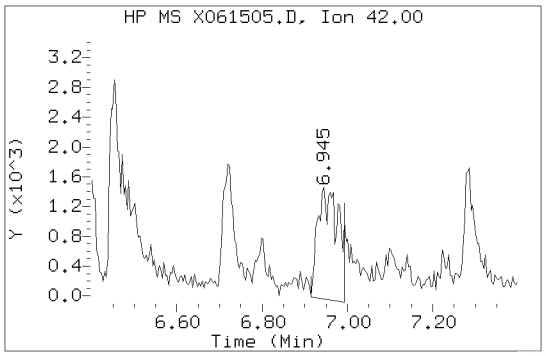
**BEFORE**

MASS
42
AREA
5090
HEIGHT
1499
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
42
AREA
5090
HEIGHT
1499
20-Jun-2023
18:22
linh
pham

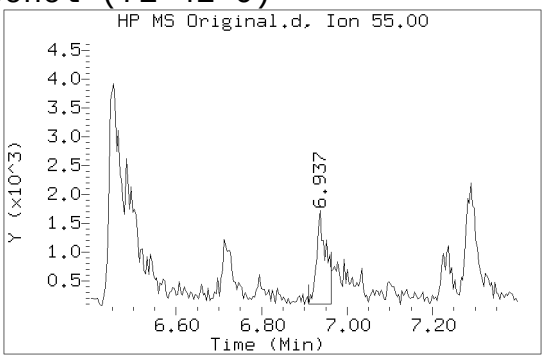


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

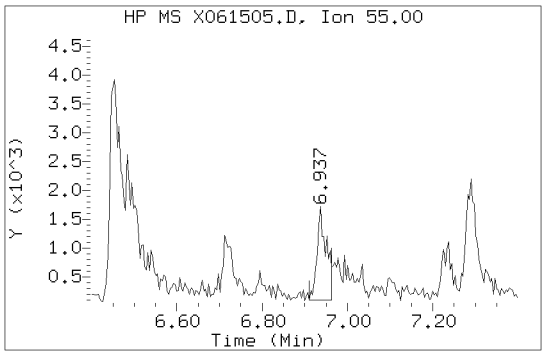
## Amyl alcohol (71-41-0)

Reason Code:

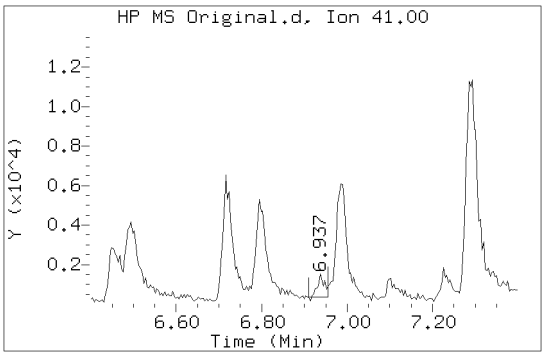
BEFORE
MASS
55
AREA
2484
HEIGHT
1619
20-Jun-2023
18:22
linh
pham



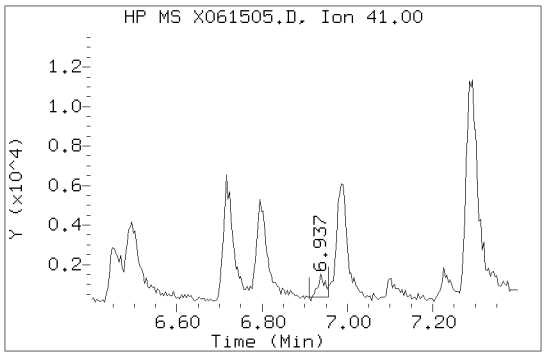

AFTER
MASS
55
AREA
2484
HEIGHT
1619
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
41
AREA
1377
HEIGHT
1194
20-Jun-2023
18:22
linh
pham



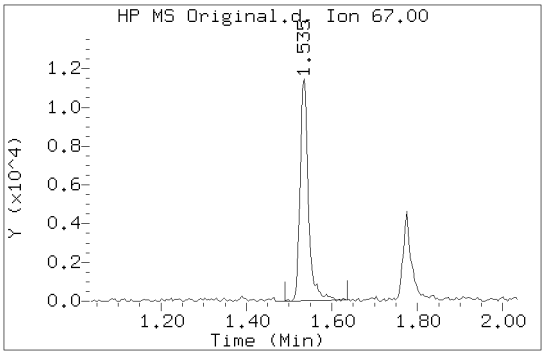

AFTER
MASS
41
AREA
1377
HEIGHT
1194
20-Jun-2023
18:22
linh
pham



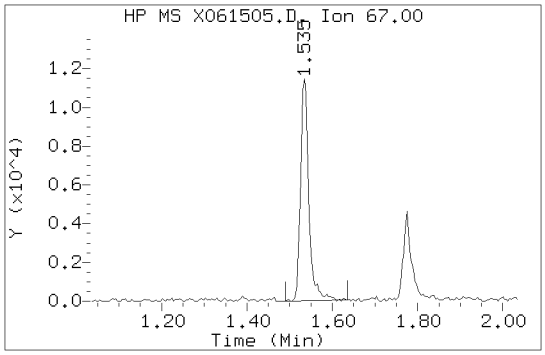

## Dichlorofluoromethane (75-43-4)

Reason Code:

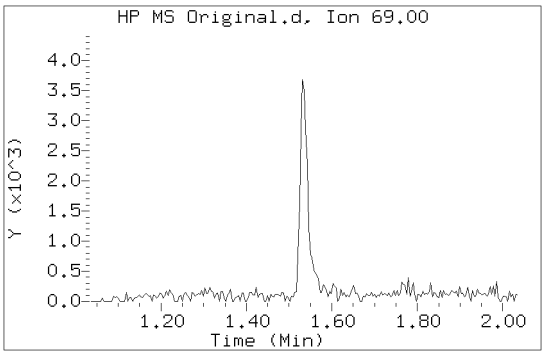
BEFORE
MASS
67
AREA
15880
HEIGHT
11454
20-Jun-2023
18:22
linh
pham



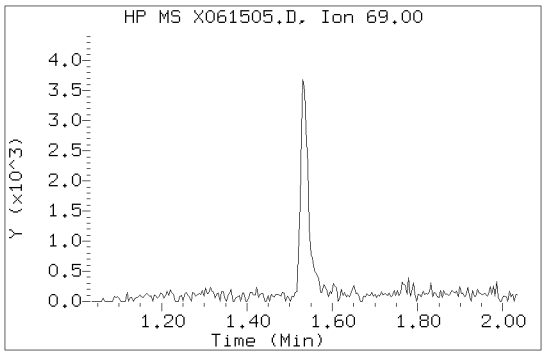

AFTER
MASS
67
AREA
15880
HEIGHT
11454
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
69
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER
MASS
69
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

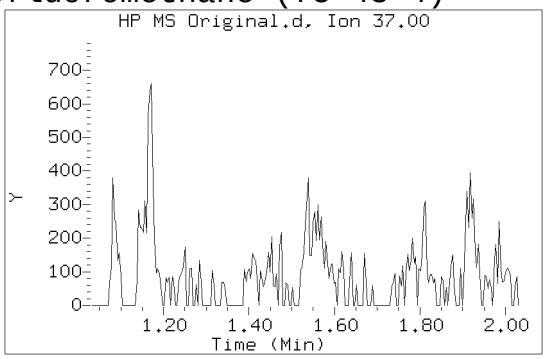


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

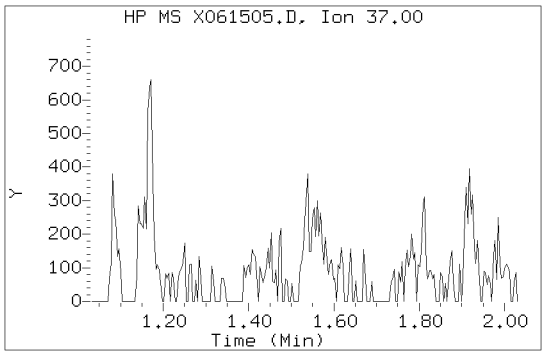
## Dichlorofluoromethane (75-43-4)

Reason Code:

BEFORE
MASS
37
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



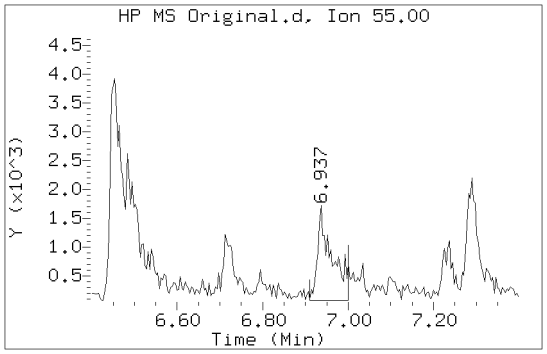

AFTER
MASS
37
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



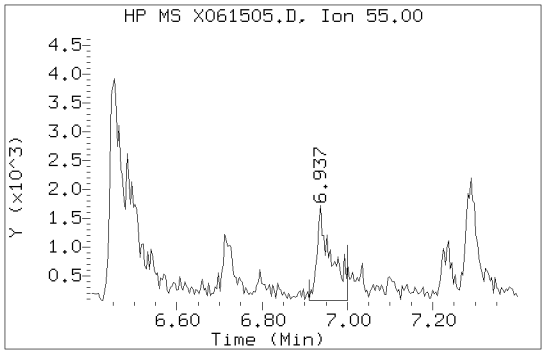

## 3-Methyl-1-butanol (123-51-3)

Reason Code:

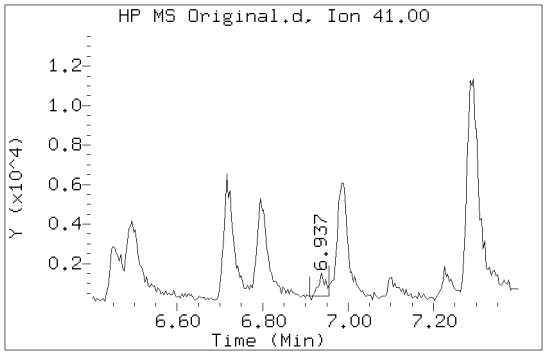
BEFORE
MASS
55
AREA
3850
HEIGHT
1643
20-Jun-2023
18:22
linh
pham



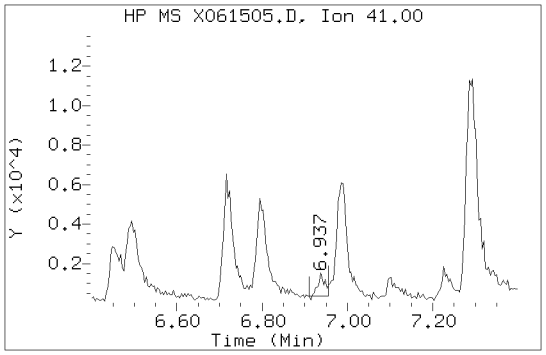

AFTER
MASS
55
AREA
3850
HEIGHT
1643
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
41
AREA
1377
HEIGHT
1194
20-Jun-2023
18:22
linh
pham



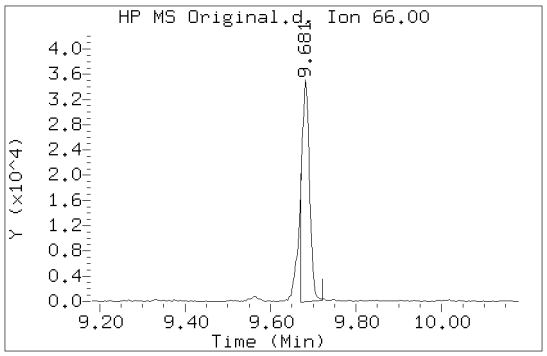

AFTER
MASS
41
AREA
1377
HEIGHT
1194
20-Jun-2023
18:22
linh
pham



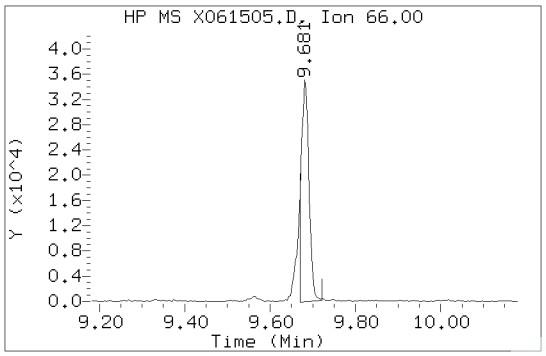

## Dicyclopentadiene (77-73-6)

Reason Code:

BEFORE
MASS
66
AREA
45923
HEIGHT
35155
20-Jun-2023
18:22
linh
pham




AFTER
MASS
66
AREA
45923
HEIGHT
35155
20-Jun-2023
18:22
linh
pham



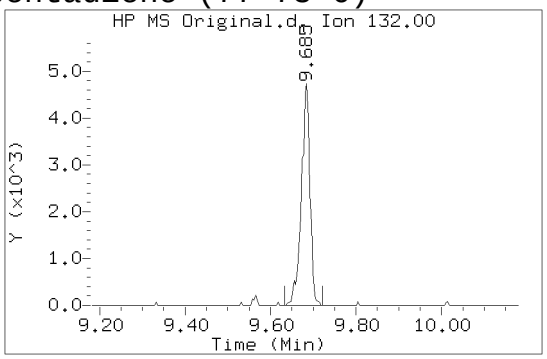
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

## Dicyclopentadiene (77-73-6)

Reason Code:

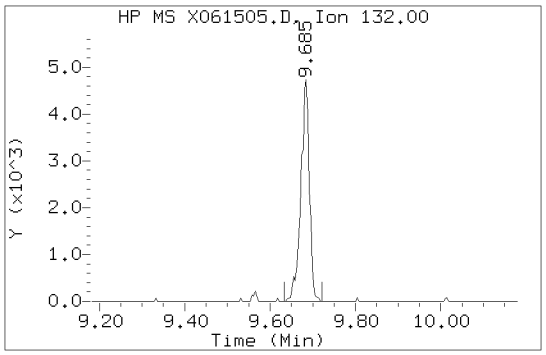
**BEFORE**

MASS
132
AREA
6793
HEIGHT
4734
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
132
AREA
6793
HEIGHT
4734
20-Jun-2023
18:22
linh
pham

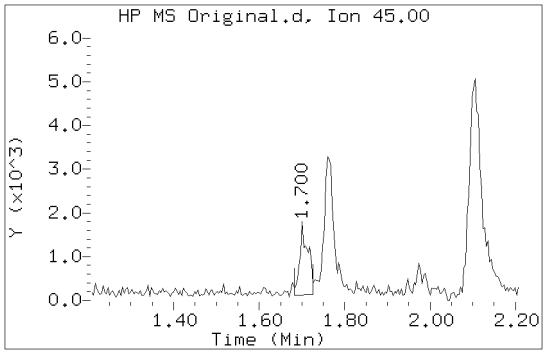



## Ethanol (64-17-5)

Reason Code:

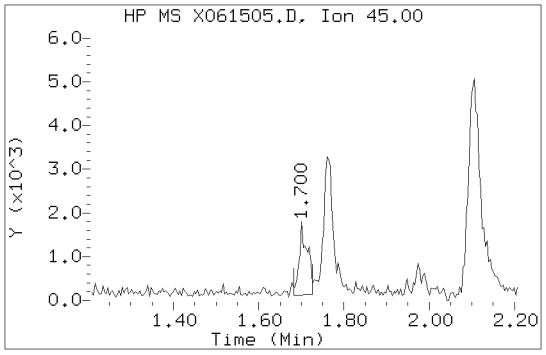
**BEFORE**

MASS
45
AREA
2336
HEIGHT
1678
20-Jun-2023
18:22
linh
pham



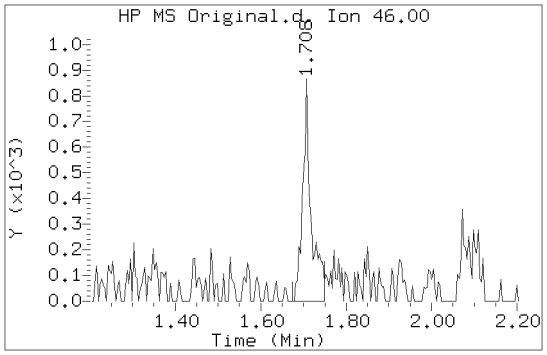

**AFTER**

MASS
45
AREA
2336
HEIGHT
1678
20-Jun-2023
18:22
linh
pham



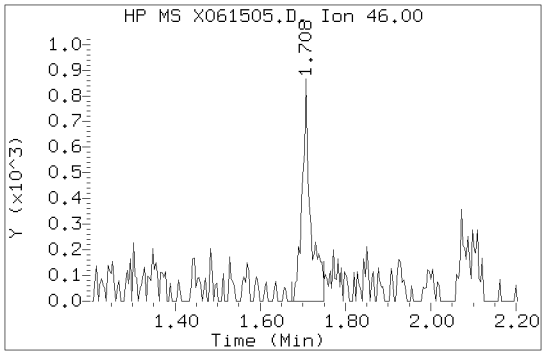

**BEFORE**

MASS
46
AREA
1210
HEIGHT
866
20-Jun-2023
18:22
linh
pham



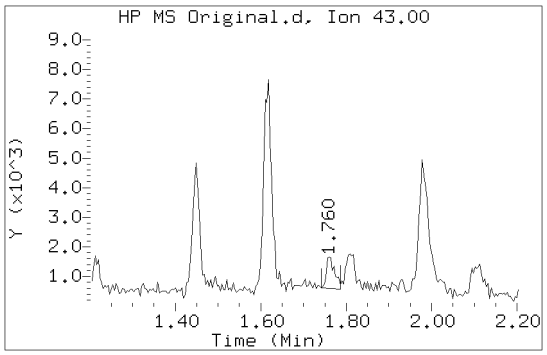

**AFTER**

MASS
46
AREA
1210
HEIGHT
866
20-Jun-2023
18:22
linh
pham



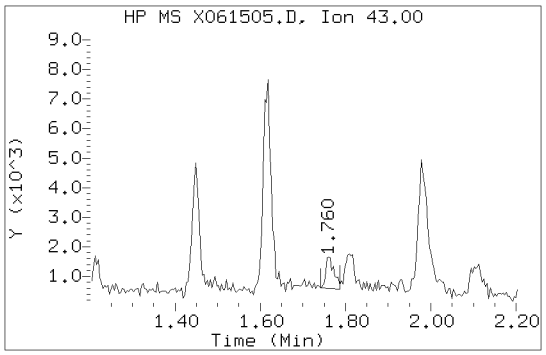

**BEFORE**

MASS
43
AREA
1441
HEIGHT
1055
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
43
AREA
1441
HEIGHT
1055
20-Jun-2023
18:22
linh
pham



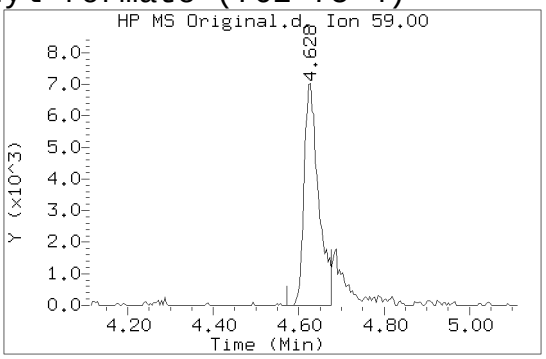
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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

## tert-Butyl formate (762-75-4)

Reason Code:

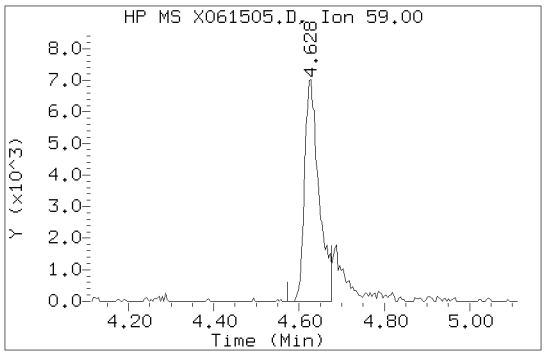
BEFORE

MASS
59
AREA
16716
HEIGHT
7019
20-Jun-2023
18:22
linh
pham



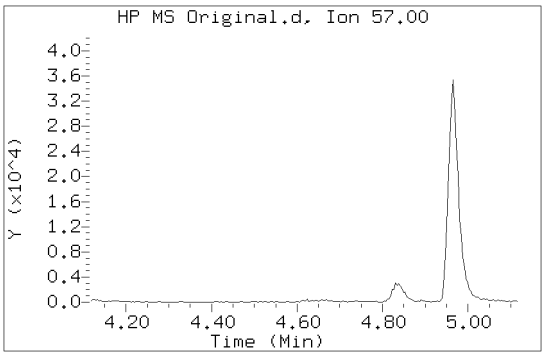

AFTER

MASS
59
AREA
16716
HEIGHT
7019
20-Jun-2023
18:22
linh
pham



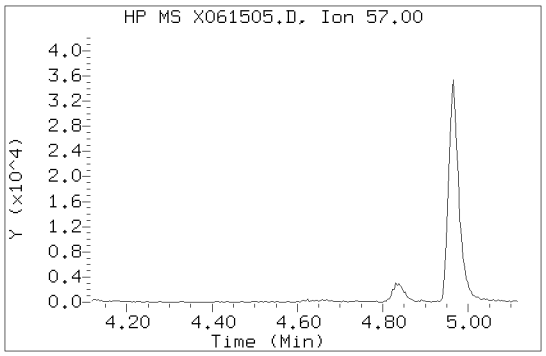

BEFORE

MASS
57
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



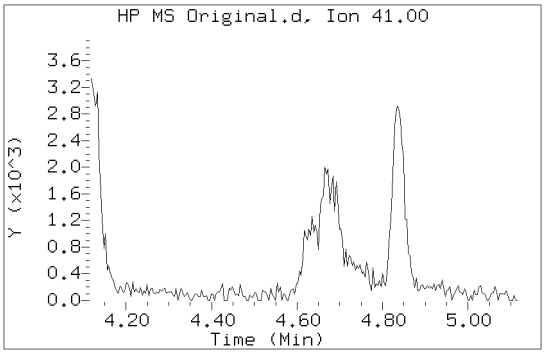

AFTER

MASS
57
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



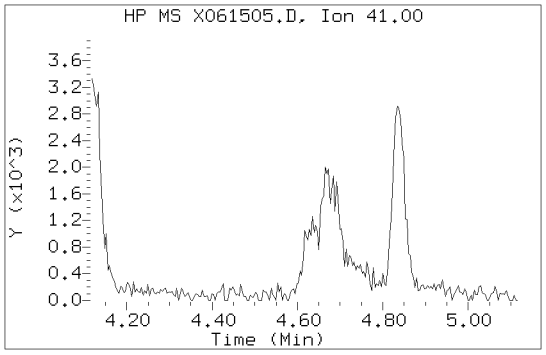

BEFORE

MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER

MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

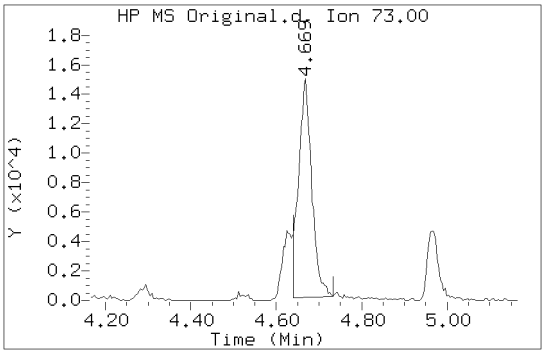



## tert-Amyl methyl ether (974-05-08)

Reason Code:

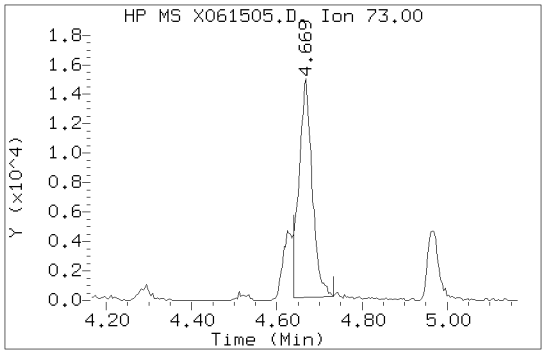
BEFORE

MASS
73
AREA
32910
HEIGHT
14863
20-Jun-2023
18:22
linh
pham




AFTER

MASS
73
AREA
32910
HEIGHT
14863
20-Jun-2023
18:22
linh
pham



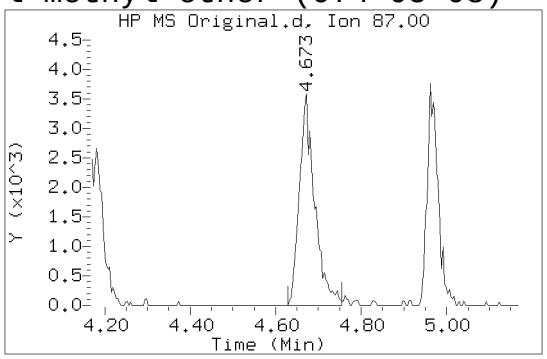
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

## tert-Amyl methyl ether (974-05-08)

Reason Code:

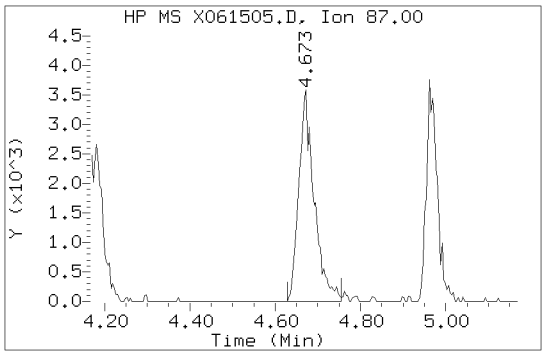
BEFORE

MASS
87
AREA
9052
HEIGHT
3583
20-Jun-2023
18:22
linh
pham



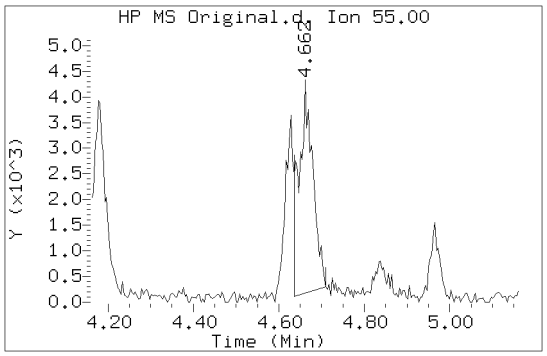

AFTER

MASS
87
AREA
9052
HEIGHT
3583
20-Jun-2023
18:22
linh
pham



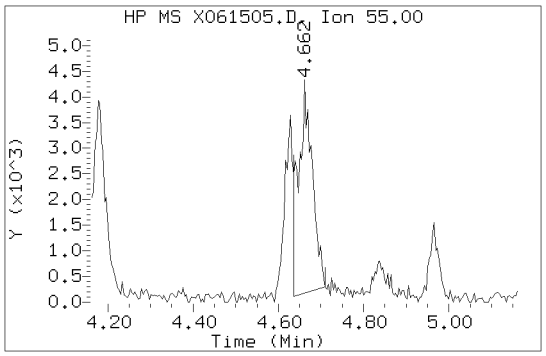

BEFORE

MASS
55
AREA
9699
HEIGHT
4151
20-Jun-2023
18:22
linh
pham




AFTER

MASS
55
AREA
9699
HEIGHT
4151
20-Jun-2023
18:22
linh
pham

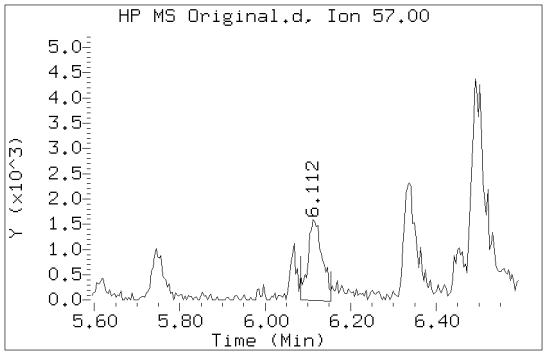



## Epichlorohydrin (106-89-8)

Reason Code:

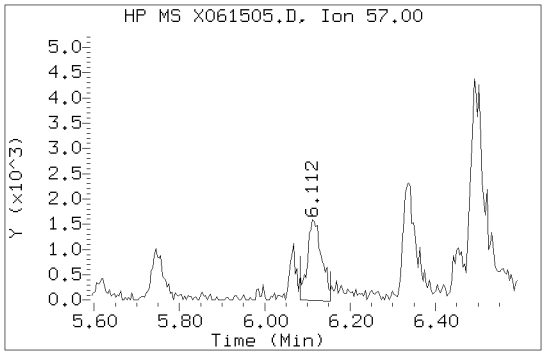
BEFORE

MASS
57
AREA
3820
HEIGHT
1601
20-Jun-2023
18:22
linh
pham



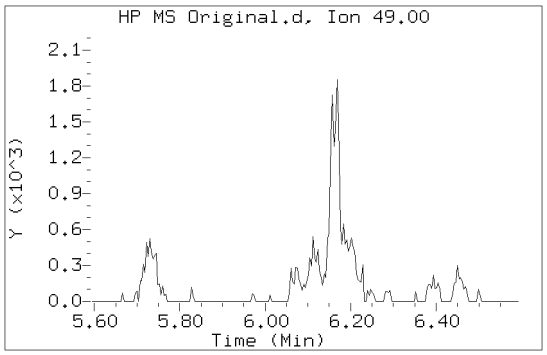

AFTER

MASS
57
AREA
3820
HEIGHT
1601
20-Jun-2023
18:22
linh
pham



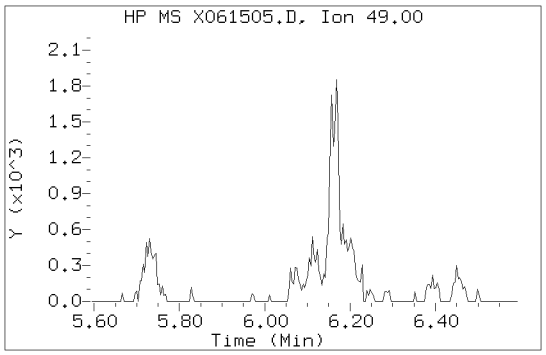

BEFORE

MASS
49
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER

MASS
49
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

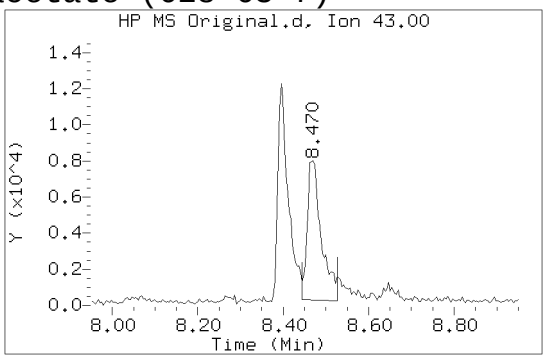


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

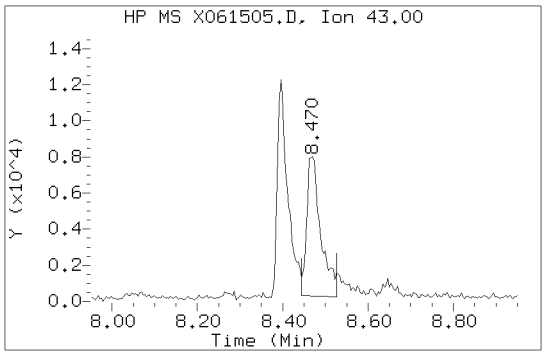
## n-Amyl acetate (628-63-7)

Reason Code:

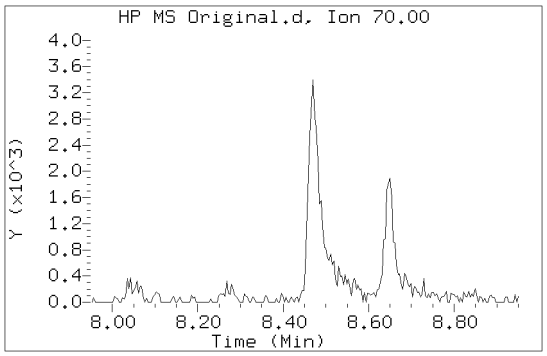
BEFORE
MASS
43
AREA
18078
HEIGHT
7749
20-Jun-2023
18:22
linh
pham



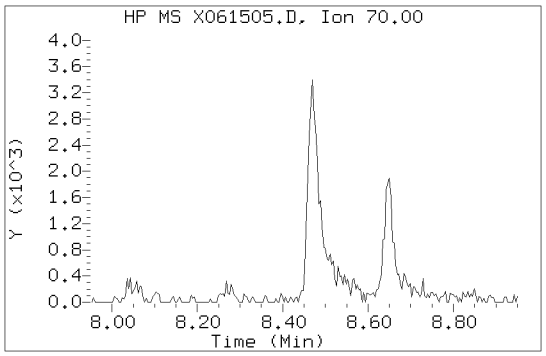

AFTER
MASS
43
AREA
18078
HEIGHT
7749
20-Jun-2023
18:22
linh
pham



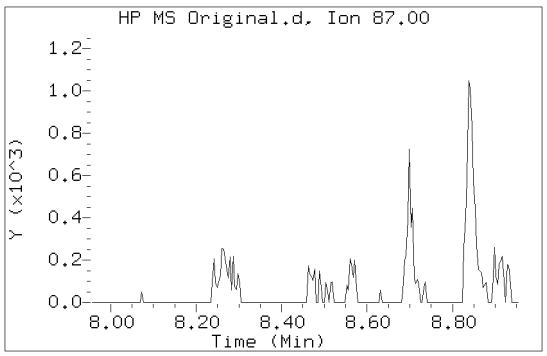

BEFORE
MASS
70
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



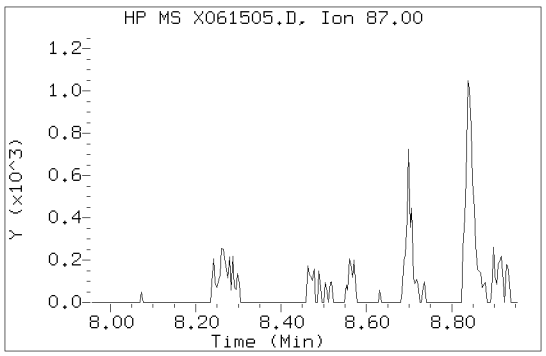

AFTER
MASS
70
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
87
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



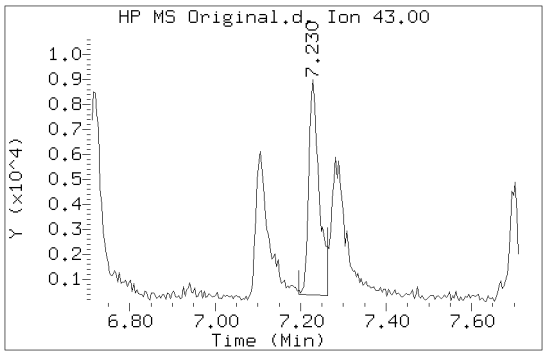

AFTER
MASS
87
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



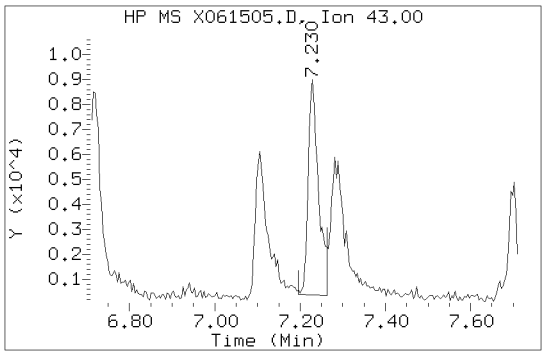

## n-Butyl acetate (123-86-4)

Reason Code:

BEFORE
MASS
43
AREA
14580
HEIGHT
8610
20-Jun-2023
18:22
linh
pham



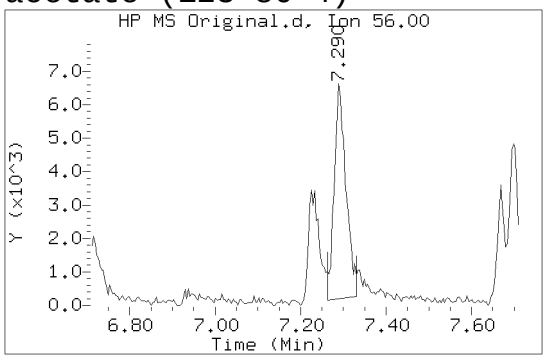

AFTER
MASS
43
AREA
14580
HEIGHT
8610
20-Jun-2023
18:22
linh
pham



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

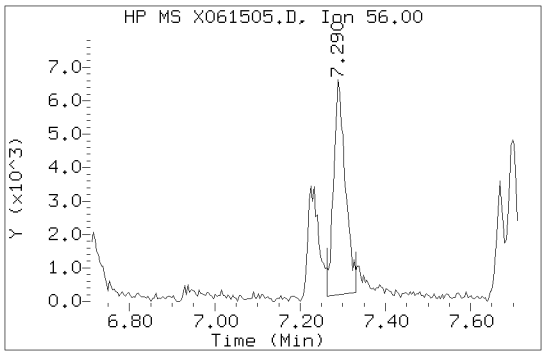
## n-Butyl acetate (123-86-4)

BEFORE
MASS
56
AREA
12380
HEIGHT
6432
20-Jun-2023
18:22
linh
pham

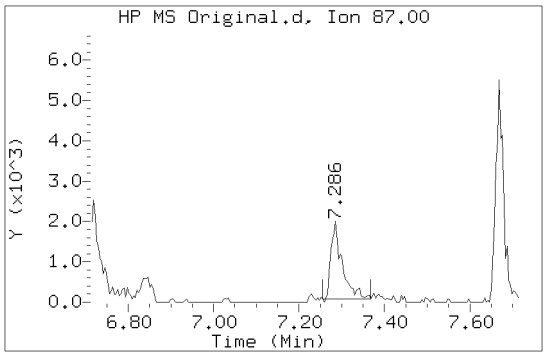



Reason Code:

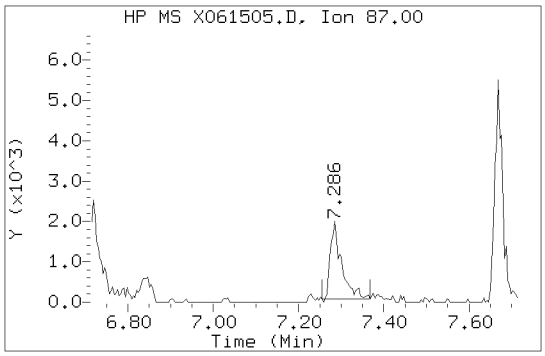
AFTER
MASS
56
AREA
12380
HEIGHT
6432
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
87
AREA
3534
HEIGHT
1937
20-Jun-2023
18:22
linh
pham

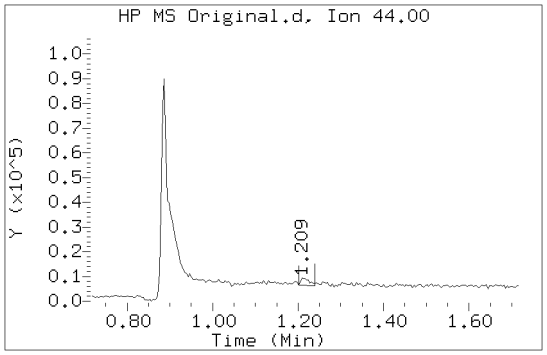



AFTER
MASS
87
AREA
3534
HEIGHT
1937
20-Jun-2023
18:22
linh
pham



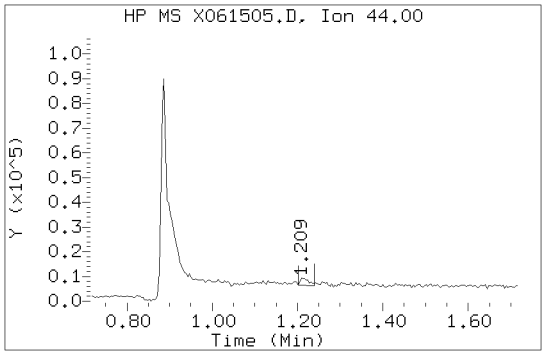

## Acetaldehyde (75-07-0)

BEFORE
MASS
44
AREA
4310
HEIGHT
3066
20-Jun-2023
18:22
linh
pham

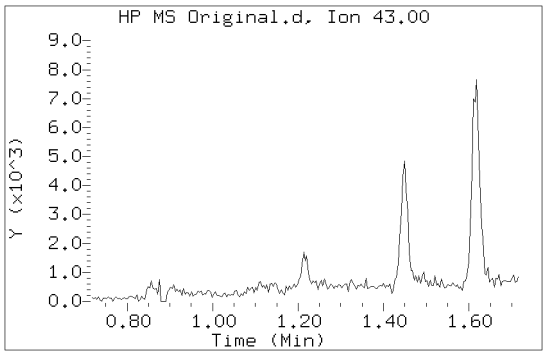



Reason Code:

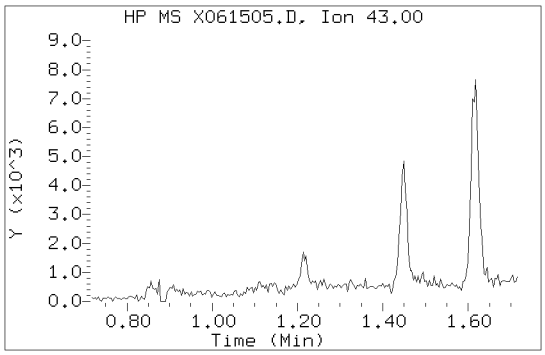
AFTER
MASS
44
AREA
4310
HEIGHT
3066
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
43
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER
MASS
43
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



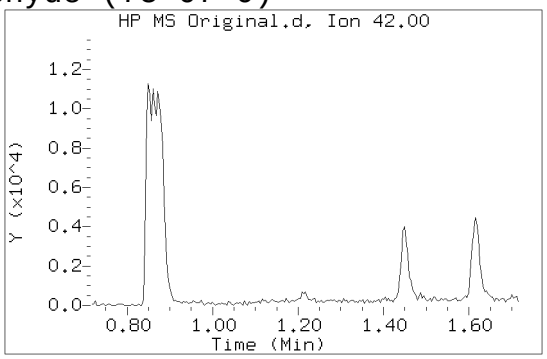
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

## Acetaldehyde (75-07-0)

Reason Code:

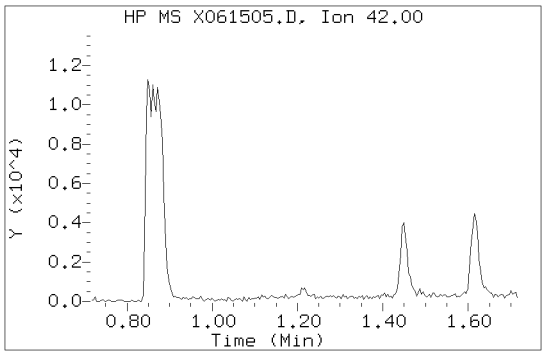
**BEFORE**

MASS
42
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
42
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

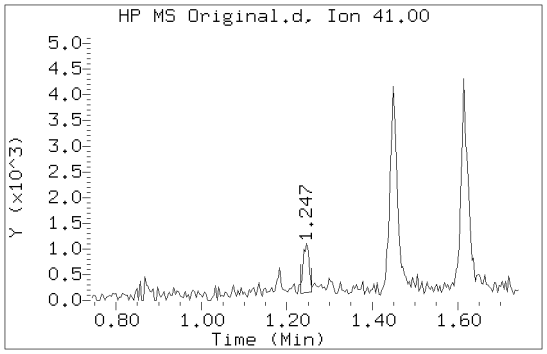



## Isobutylene (115-11-7)

Reason Code:

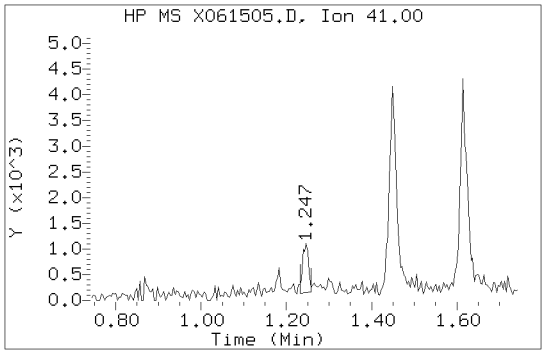
**BEFORE**

MASS
41
AREA
964
HEIGHT
953
20-Jun-2023
18:22
linh
pham



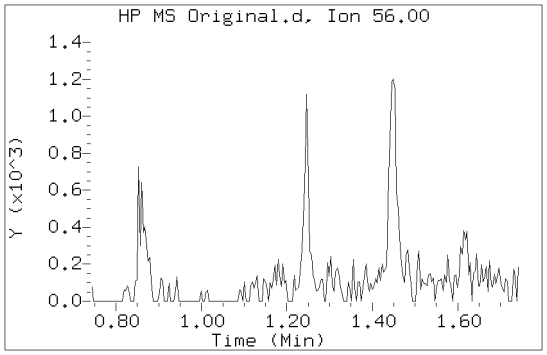

**AFTER**

MASS
41
AREA
964
HEIGHT
953
20-Jun-2023
18:22
linh
pham



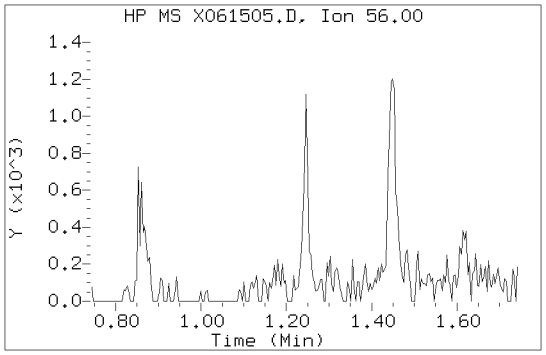

**BEFORE**

MASS
56
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



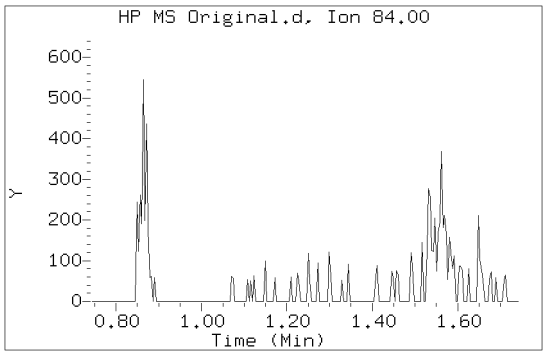

**AFTER**

MASS
56
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



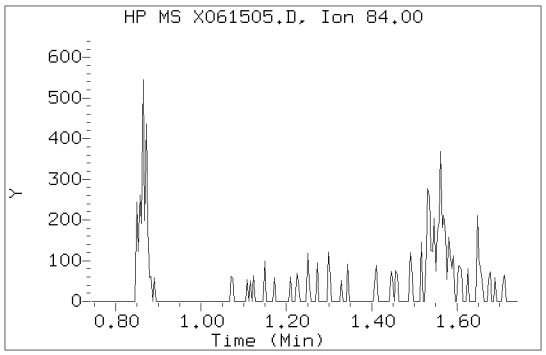

**BEFORE**

MASS
84
AREA
0
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20-Jun-2023
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**AFTER**

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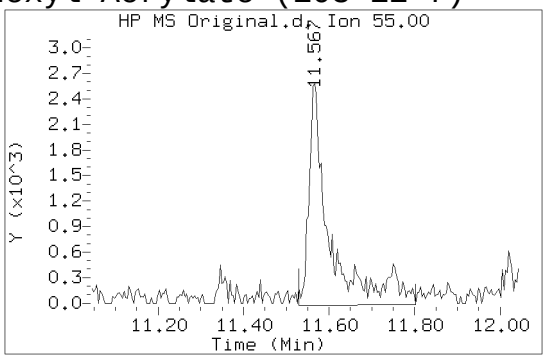
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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

## 2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

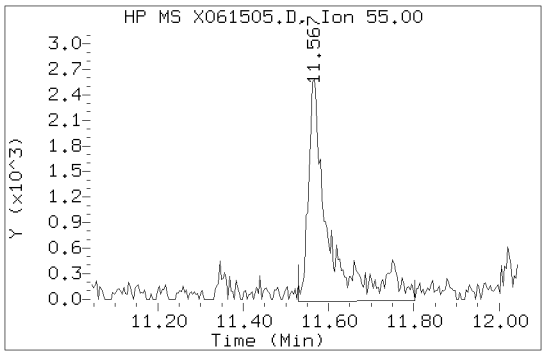
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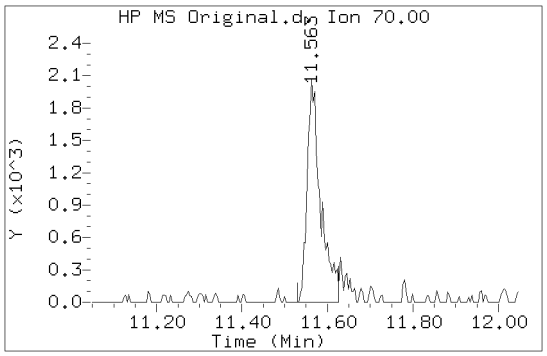

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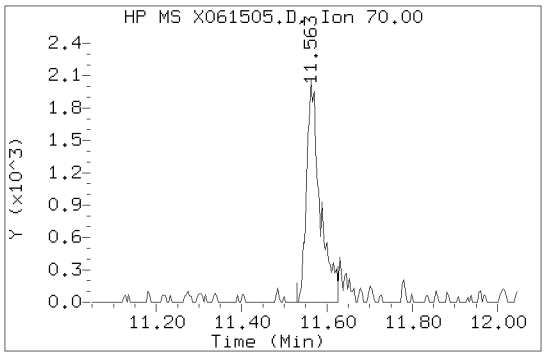

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### AFTER

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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061506.D  Page 1
Report Date: 20-Jun-2023 18:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061506.D
Lab Smp Id: VSTD005  Client Smp ID: VSTD005
Inj Date  : 15-JUN-2023 13:00
Operator  : PC  Inst ID: voa6.i
Smp Info  : VSTD005;VSTD005;1;5;
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:00  Cal File: X061506.D
Als bottle: 7  Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 00000_8260.sub
Target Version:  4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * | 1 Pentafluorobenzene | 168 | 4.177 | 4.181 | (1.000) | 488017 | 50.0000 | |
| | 2 Dichlorodifluoromethane | 85 | 0.976 | 0.976 | (0.234) | 21019 | 5.00000 | 5.29 |
| | 3 Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 25651 | 5.00000 | 5.89 |
| | 4 Propionitrile | 54 | 3.668 | 3.653 | (0.878) | 29713 | 50.0000 | 50.34(a) |
| | 5 Vinyl Chloride | 62 | 1.145 | 1.149 | (0.274) | 23889 | 5.00000 | 4.66 |
| | 6 Bromomethane | 94 | 1.343 | 1.344 | (0.322) | 14528 | 5.00000 | 4.93(M) |
| | 7 Chloroethane | 64 | 1.407 | 1.407 | (0.337) | 15374 | 5.00000 | 4.90 |
| | 8 Trichlorofluoromethane | 101 | 1.565 | 1.565 | (0.375) | 28710 | 5.00000 | 4.71 |
| | 9 Acrolein | 56 | 1.445 | 1.449 | (0.346) | 2991 | 10.0000 | 9.87(a) |
| | 10 Acetone | 43 | 1.977 | 1.973 | (0.473) | 16276 | 10.0000 | 12.55 |
| | 11 1,1-Dichloroethene | 96 | 1.917 | 1.917 | (0.459) | 18352 | 5.00000 | 4.80 |
| | 12 Isobutyl Alcohol | 43 | 4.684 | 4.676 | (1.121) | 68348 | 100.000 | 107.41(a) |
| | 13 Acetonitrile | 39 | 2.206 | 2.202 | (0.528) | 24760 | 50.0000 | 52.30(a) |
| | 14 Allyl Chloride | 41 | 2.206 | 2.202 | (0.528) | 54361 | 5.00000 | 5.07(a) |
| | 15 Iodomethane | 142 | 2.029 | 2.030 | (0.486) | 43988 | 10.0000 | 9.17 |
| | 16 Acrylonitrile | 53 | 2.554 | 2.536 | (0.611) | 15118 | 10.0000 | 9.75(M) |
| | 17 Methylene Chloride | 84 | 2.307 | 2.307 | (0.552) | 29661 | 5.00000 | 5.49 |
| | 18 Methyl tert-butyl ether | 73 | 2.536 | 2.536 | (0.607) | 67305 | 5.00000 | 5.04 |
| | 19 Carbon Disulfide | 76 | 2.071 | 2.071 | (0.496) | 128049 | 10.0000 | 9.41 |
| | 20 trans-1,2-Dichloroethene | 96 | 2.536 | 2.532 | (0.607) | 21908 | 5.00000 | 4.79 |
| | 21 Vinyl Acetate | 43 | 3.008 | 2.997 | (0.720) | 127281 | 10.0000 | 10.43 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 22 1,1-Dichloroethane | 63 | 2.925 | 2.922 (0.700) | 39888 | 5.00000 | 4.84 |
| 23 Chloroprene | 53 | 1.778 | 1.775 (0.426) | 7954 | 5.00000 | 4.90(aM) |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 24 2-Butanone | 43 | 3.608 | 3.578 | (0.864) | 13344 | 10.0000 | 8.30(M) |
| | 25 Methacrylonitrile | 41 | 3.840 | 3.821 | (0.919) | 20054 | 5.00000 | 4.98(aH) |
| | 26 2,2-Dichloropropane | 77 | 3.514 | 3.514 | (0.841) | 33630 | 5.00000 | 5.17 |
| | 27 cis-1,2-Dichloroethene | 96 | 3.529 | 3.525 | (0.845) | 25475 | 5.00000 | 4.83 |
| | 28 Chloroform | 83 | 3.908 | 3.904 | (0.935) | 43843 | 5.00000 | 4.94 |
| | 29 Bromochloromethane | 128 | 3.799 | 3.795 | (0.909) | 14035 | 5.00000 | 4.99 |
| $ | 30 Dibromofluoromethane | 113 | 4.106 | 4.099 | (0.983) | 25267 | 5.00000 | 5.49 |
| | 31 1,1,1-Trichloroethane | 97 | 4.080 | 4.084 | (0.977) | 33298 | 5.00000 | 4.64 |
| | 32 1,1-Dichloropropene | 75 | 4.282 | 4.279 | (0.863) | 31057 | 5.00000 | 4.91 |
| | 33 1,2-Dichloroethane | 62 | 4.560 | 4.556 | (0.918) | 31372 | 5.00000 | 4.95 |
| | 34 Carbon Tetrachloride | 117 | 4.267 | 4.264 | (0.860) | 28746 | 5.00000 | 4.73 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 4.474 | 4.470 | (1.071) | 26822 | 5.00000 | 4.94 |
| * | 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 753771 | 50.0000 | |
| | 37 Benzene | 78 | 4.515 | 4.511 | (0.909) | 91696 | 5.00000 | 4.72 |
| | 38 Trichloroethene | 130 | 5.212 | 5.205 | (1.050) | 26143 | 5.00000 | 4.89(a) |
| | 39 Bromodichloromethane | 83 | 5.729 | 5.722 | (1.154) | 32837 | 5.00000 | 4.78(a) |
| | 40 Methyl Methacrylate | 41 | 5.617 | 5.606 | (1.345) | 18034 | 5.00000 | 4.77(a) |
| | 41 2-Chloroethylvinyl ether | 63 | 6.059 | 6.048 | (1.220) | 18326 | 10.0000 | 9.87(a) |
| | 42 1,2-Dichloropropane | 63 | 5.441 | 5.437 | (1.096) | 25417 | 5.00000 | 4.99(a) |
| | 43 2-Nitropropane | 43 | 5.973 | 5.966 | (1.430) | 6797 | 5.00000 | 5.16(MH) |
| | 44 Dibromomethane | 93 | 5.553 | 5.550 | (1.119) | 15838 | 5.00000 | 4.95(a) |
| | 45 4-Methyl-2-Pentanone | 43 | 6.329 | 6.322 | (0.825) | 47063 | 10.0000 | 10.43 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.160 | 6.153 | (1.241) | 41389 | 5.00000 | 4.89(a) |
| * | 47 Chlorobenzene-d5 | 117 | 7.667 | 7.668 | (1.000) | 697950 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.389 | 6.386 | (0.833) | 86700 | 5.00000 | 4.91(a) |
| | 49 Ethyl Methacrylate | 69 | 6.712 | 6.708 | (1.352) | 28839 | 5.00000 | 5.33(a) |
| | 50 Toluene | 91 | 6.449 | 6.445 | (0.841) | 96484 | 5.00000 | 4.70(a) |
| | 51 trans-1,3-Dichloropropene | 75 | 6.689 | 6.678 | (1.347) | 33242 | 5.00000 | 4.69(a) |
| | 52 2-Hexanone | 43 | 7.094 | 7.083 | (0.925) | 31781 | 10.0000 | 10.55 |
| | 53 1,1,2-Trichloroethane | 83 | 6.843 | 6.835 | (0.892) | 20225 | 5.00000 | 5.06 |
| | 54 1,3-Dichloropropane | 76 | 6.985 | 6.978 | (0.911) | 40289 | 5.00000 | 4.99(a) |
| | 55 Dibromochloromethane | 129 | 7.176 | 7.173 | (0.936) | 26465 | 5.00000 | 4.67(a) |
| | 56 Tetrachloroethene | 164 | 6.925 | 6.925 | (0.903) | 20894 | 5.00000 | 4.95(a) |
| | 57 1,2-Dibromoethane | 107 | 7.263 | 7.259 | (0.947) | 25353 | 5.00000 | 4.96(a) |
| | 58 1-Chlorohexane | 55 | 7.694 | 7.694 | (1.550) | 22997 | 5.00000 | 5.01 |
| | 59 Chlorobenzene | 112 | 7.694 | 7.690 | (1.003) | 68862 | 5.00000 | 4.91(a) |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 7.776 | 7.773 | (1.014) | 25167 | 5.00000 | 4.81(a) |
| | 61 Ethylbenzene | 106 | 7.799 | 7.799 | (1.017) | 34698 | 5.00000 | 4.80(a) |
| | 62 m,p-Xylenes | 106 | 7.907 | 7.900 | (1.031) | 89258 | 10.0000 | 10.02 |
| | 63 o-Xylene | 106 | 8.241 | 8.237 | (1.075) | 43406 | 5.00000 | 4.88(a) |
| | 64 Styrene | 104 | 8.263 | 8.256 | (1.078) | 70501 | 5.00000 | 4.81(a) |
| | 66 Bromoform | 173 | 8.413 | 8.410 | (1.097) | 18603 | 5.00000 | 4.71(a) |
| | 67 Isopropylbenzene | 105 | 8.560 | 8.560 | (1.116) | 105918 | 5.00000 | 4.82(a) |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 8.841 | 8.837 | (0.915) | 34471 | 5.00000 | 5.14 |
| $ | 69 4-Bromofluorobenzene | 95 | 8.691 | 8.687 | (1.133) | 37968 | 5.00000 | 5.09 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.658 | (1.000) | 381050 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 8.863 | 8.863 | (0.917) | 24647 | 5.00000 | 5.12 |
| | 72 trans-1,4-Dichloro-2-butene | 53 | 8.893 | 8.886 | (1.160) | 8239 | 5.00000 | 4.84(a) |
| | 73 n-Propylbenzene | 91 | 8.912 | 8.908 | (0.922) | 122140 | 5.00000 | 4.87(a) |
| | 74 Bromobenzene | 156 | 8.807 | 8.803 | (0.912) | 30648 | 5.00000 | 4.93(a) |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.069 | 9.066 | (0.939) | 88359 | 5.00000 | 4.80(a) |
| | 76 2-Chlorotoluene | 91 | 8.976 | 8.972 | (0.929) | 80274 | 5.00000 | 5.04 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 77 | 4-Chlorotoluene | 91 | 9.073 | 9.070 (0.939) | 88105 | 5.00000 | 4.96(a) |
| 78 | tert-Butylbenzene | 119 | 9.336 | 9.336 (0.966) | 74954 | 5.00000 | 4.88(a) |

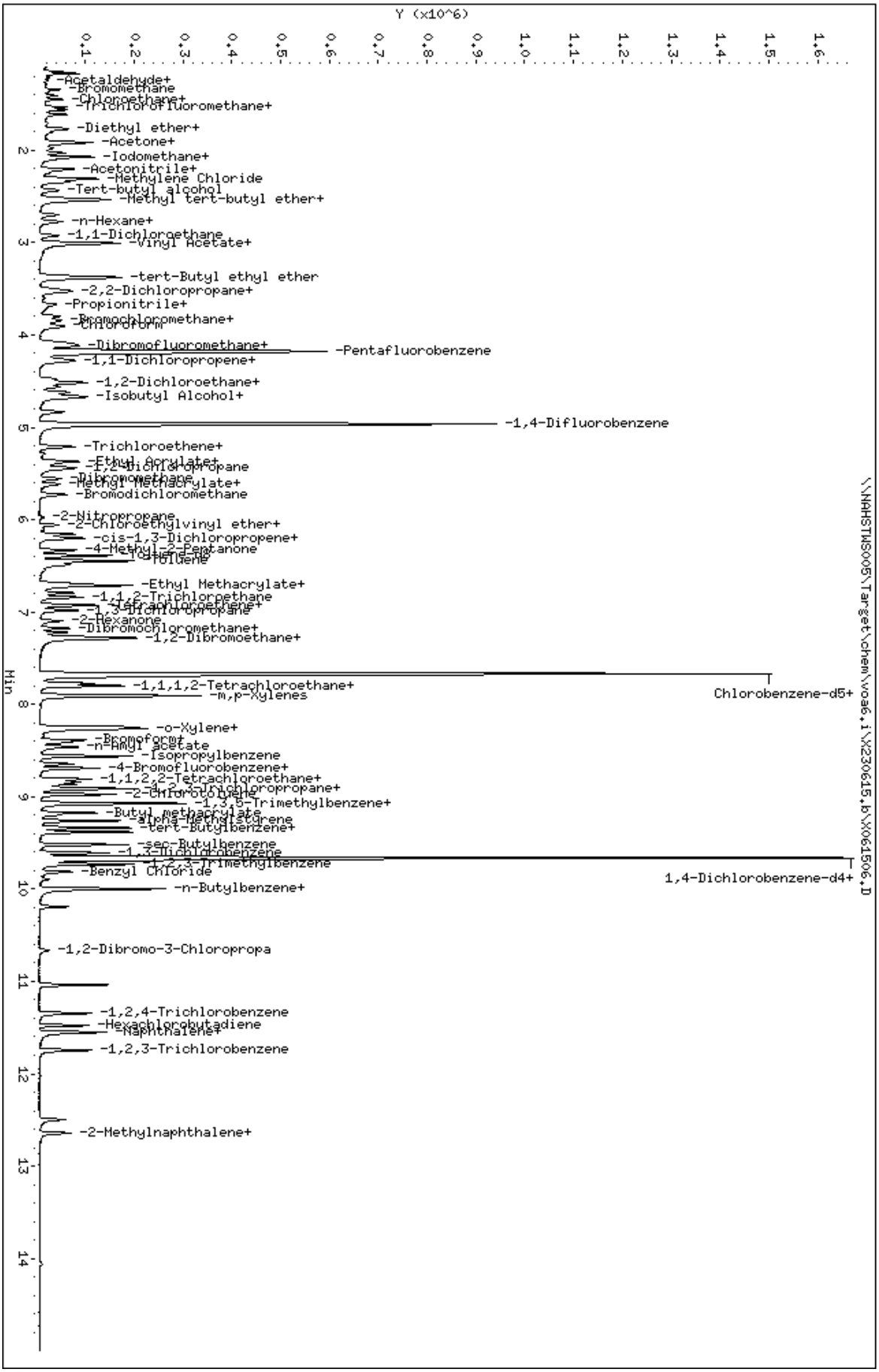
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 79 | 1,2,4-Trimethylbenzene | 105 | 9.381 | 9.377 | (0.971) | 89491 | 5.00000 | 4.82(a) |
| 81 | sec-Butylbenzene | 105 | 9.519 | 9.519 | (0.985) | 104715 | 5.00000 | 4.84(a) |
| 82 | p-Isopropyltoluene | 119 | 9.650 | 9.647 | (0.999) | 91749 | 5.00000 | 4.84(a) |
| 83 | 1,3-Dichlorobenzene | 146 | 9.605 | 9.602 | (0.994) | 53191 | 5.00000 | 4.81(a) |
| 84 | 1,4-Dichlorobenzene | 146 | 9.684 | 9.681 | (1.002) | 56357 | 5.00000 | 4.76(a) |
| 86 | Benzyl Chloride | 91 | 9.812 | 9.808 | (1.280) | 46695 | 5.00000 | 4.05(a) |
| 87 | n-Butylbenzene | 91 | 9.999 | 9.992 | (1.035) | 79292 | 5.00000 | 4.91(a) |
| 88 | 1,2-Dichlorobenzene | 146 | 9.995 | 9.992 | (1.035) | 53221 | 5.00000 | 4.85(a) |
| 89 | 1,2-Dibromo-3-Chloropropane | 155 | 10.663 | 10.655 | (1.104) | 5689 | 5.00000 | 5.43 |
| 90 | 1,2,4-Trichlorobenzene | 180 | 11.345 | 11.334 | (1.174) | 35696 | 5.00000 | 4.67(a) |
| 91 | Hexachlorobutadiene | 225 | 11.476 | 11.476 | (1.188) | 16766 | 5.00000 | 4.89(a) |
| 92 | Naphthalene | 128 | 11.547 | 11.540 | (1.195) | 82000 | 5.00000 | 4.77(a) |
| 93 | 1,2,3-Trichlorobenzene | 180 | 11.746 | 11.739 | (1.216) | 33399 | 5.00000 | 4.75(a) |
| 146 | Methyl acetate | 43 | 2.243 | 2.232 | (0.537) | 13585 | 5.00000 | 4.70(a) |
| 138 | Freon TF | 101 | 1.917 | 1.917 | (0.459) | 18080 | 5.00000 | 5.43 |
| 141 | Cyclohexane | 56 | 4.121 | 4.121 | (0.987) | 29352 | 5.00000 | 4.71(aH) |
| 142 | Tetrahydrofuran | 42 | 3.855 | 3.844 | (0.923) | 6773 | 10.0000 | 9.52 |
| 147 | Methylcyclohexane | 55 | 5.396 | 5.381 | (1.087) | 52494 | 5.00000 | 4.98(aM) |
| 135 | 1,4-Dioxane | 88 | 5.606 | 5.598 | (1.342) | 5975 | 100.000 | 101.02 |
| 132 | n-Butanol | 56 | 5.287 | 5.253 | (1.266) | 8163 | 100.000 | 124.96(aM) |
| 131 | Methyl Acrylate | 55 | 3.716 | 3.690 | (0.890) | 16619 | 5.00000 | 4.20(a) |
| 133 | Ethyl Acrylate | 55 | 5.396 | 5.381 | (1.292) | 39998 | 5.00000 | 5.82(M) |
| 136 | n-Hexane | 57 | 2.775 | 2.776 | (0.664) | 23971 | 5.00000 | 5.42 |
| 139 | Diethyl ether | 59 | 1.760 | 1.760 | (0.421) | 15277 | 5.00000 | 4.99(a) |
| 148 | Tert-butyl alcohol | 59 | 2.434 | 2.431 | (0.583) | 50993 | 100.000 | 101.75 |
| 149 | Isopropyl alcohol | 45 | 2.101 | 2.093 | (0.503) | 26563 | 100.000 | 96.02(T) |
| 156 | Diisopropyl ether | 45 | 3.004 | 3.000 | (0.719) | 71238 | 5.00000 | 4.94(Ta) |
| 160 | 2-Methylnaphthalene | 142 | 12.642 | 12.634 | (1.308) | 35100 | 5.00000 | 4.66 |
| 166 | 1,2,3-Trimethylbenzene | 105 | 9.733 | 9.729 | (1.007) | 90660 | 5.00000 | 5.00 |
| 167 | Ethanol | 45 | 1.711 | 1.707 | (0.410) | 5165 | 100.000 | 110.73 |
| 172 | tert-Butyl formate | 59 | 4.620 | 4.612 | (1.106) | 41840 | 10.0000 | 10.41 |
| 173 | 3,3-Dimethyl-1-butanol | 57 | 7.289 | 7.285 | (0.951) | 59619 | 100.000 | 104.43 |
| 174 | tert-Amyl methyl ether | 73 | 4.669 | 4.665 | (1.118) | 78074 | 5.00000 | 4.98(a) |
| 175 | tert-Butyl ethyl ether | 59 | 3.379 | 3.379 | (0.809) | 71669 | 5.00000 | 4.81(a) |
| 176 | tert-Amyl alcohol | 59 | 4.620 | 4.612 | (1.106) | 41840 | 100.000 | 102.06 |
| 151 | 4-Methyl-2-pentanol | 45 | 6.712 | 6.708 | (1.352) | 125924 | 100.000 | 105.05(M) |
| 180 | 1-Methylnaphthalene | 142 | 12.642 | 12.634 | (1.308) | 35100 | 5.00000 | (a) |
| 140 | 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.280) | 18461 | 5.00000 | 4.56(a) |
| 152 | Amyl alcohol | 42 | 6.918 | 6.899 | (0.902) | 10877 | 100.000 | 83.64(M) |
| 158 | Dichlorofluoromethane | 67 | 1.535 | 1.535 | (0.367) | 33935 | 5.00000 | 4.83 |
| 159 | Propylene oxide | 43 | 1.805 | 1.805 | (0.432) | 4141 | 10.0000 | 9.57 |
| 161 | 3-Methyl-1-butanol | 55 | 6.921 | 6.899 | (0.903) | 10033 | 100.000 | 107.44 |
| 162 | Butyl acrylate | 55 | 8.260 | 8.249 | (1.077) | 48821 | 5.00000 | 5.22 |
| 163 | Butyl methacrylate | 41 | 9.174 | 9.167 | (0.950) | 33077 | 5.00000 | 5.16 |
| 164 | Dicyclopentadiene | 66 | 9.680 | 9.681 | (1.002) | 112719 | 5.00000 | 5.28 |
| 182 | Epichlorohydrin | 57 | 6.104 | 6.093 | (1.230) | 8423 | 20.0000 | 18.68 |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 47383 | 10.0000 | (a) |
| 130 | Ethyl Acetate | 43 | 3.668 | 3.657 | (0.878) | 25843 | 5.00000 | 5.19(T) |
| 134 | Cyclohexanone | 55 | 8.646 | 8.642 | (0.895) | 24566 | 100.000 | 102.53(a) |
| 185 | Isoprene | 39 | 1.771 | 1.775 | (0.424) | 5765 | 5.00000 | 4.34(a) |
| 188 | Isopropyl acetate | 43 | 4.684 | 4.676 | (0.943) | 68348 | 5.00000 | 5.25 |
| 187 | n-Amyl acetate | 43 | 8.462 | 8.451 | (1.104) | 46339 | 5.00000 | 4.95(a) |

| | | | | | | |
|---|---|---|---|---|---|---|
| 189 n-Butyl acetate | 43 | 7.221 | 7.210 (0.942) | 38984 | 5.00000 | 5.21(H) |
| 150 Allyl alcohol | 57 | 2.775 | 2.772 (0.664) | 23971 | 100.000 | 107.32 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| 194 Acetaldehyde | 44 | 1.216 | 1.216 | (0.291) | 6656 | 20.0000 | 22.91(M) |
| 195 Methyl Amyl Ketone | 43 | 8.387 | 8.380 | (1.094) | 52850 | 5.00000 | 5.14 |
| 200 Dimethyl Disulfide | 94 | 6.198 | 6.194 | (0.808) | 50470 | 5.00000 | 4.87(a) |
| 202 Isobutylene | 41 | 1.242 | 1.242 | (0.297) | 2239 | 5.00000 | 4.79(aM) |
| 205 2-Ethylhexyl Acrylate | 55 | 11.551 | 11.544 | (1.196) | 25308 | 5.00000 | 4.76(aM) |

## QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.




Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061506.D
Date : 15-JUN-2023 13:00
Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

\\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061506.D

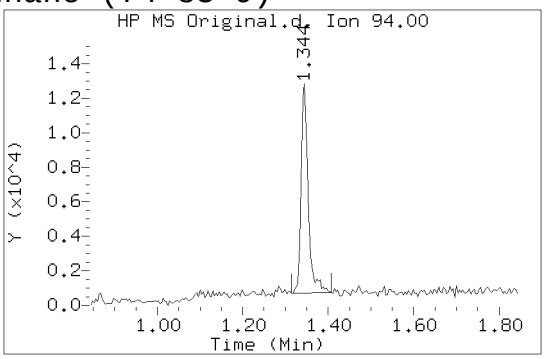
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Inj Date : 15-JUN-2023 13:00
InstruID : voa6.i
LabSampID : VSTD005

## Bromomethane (74-83-9)

Reason Code:

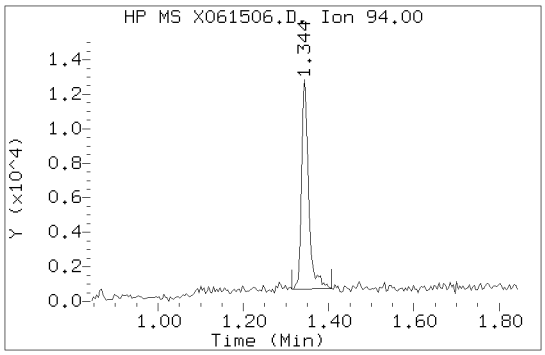
BEFORE

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20-Jun-2023
18:22
linh
pham



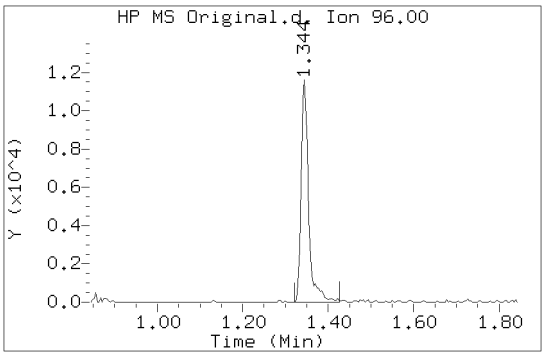

AFTER

MASS
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AREA
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HEIGHT
12133
20-Jun-2023
18:22
linh
pham



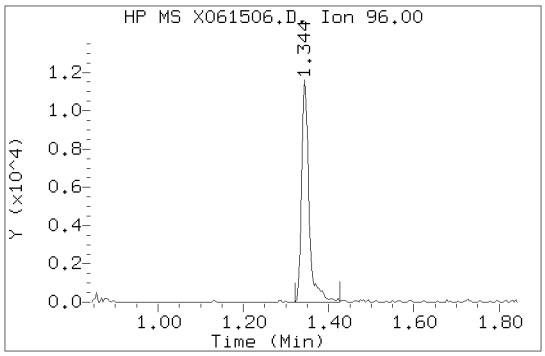

BEFORE

MASS
96
AREA
14677
HEIGHT
11611
20-Jun-2023
18:22
linh
pham




AFTER

MASS
96
AREA
14677
HEIGHT
11611
20-Jun-2023
18:22
linh
pham

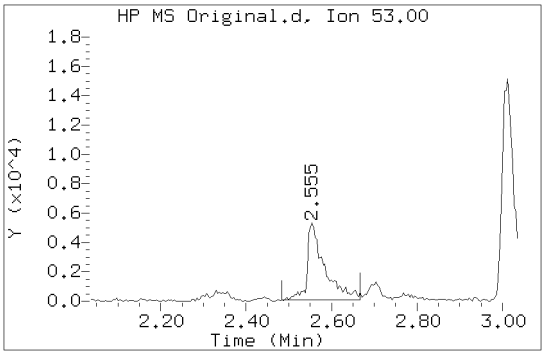



## Acrylonitrile (107-13-1)

Reason Code:

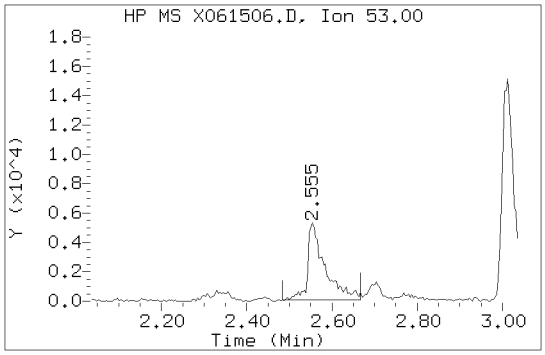
BEFORE

MASS
53
AREA
15118
HEIGHT
5292
20-Jun-2023
18:22
linh
pham



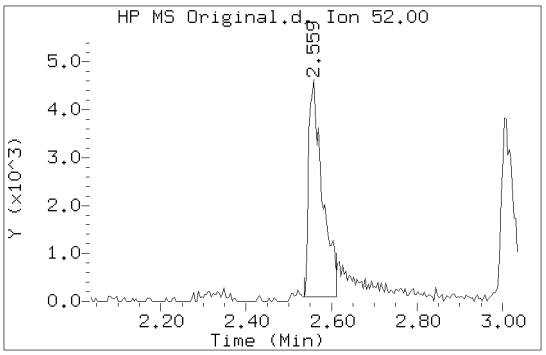

AFTER

MASS
53
AREA
15118
HEIGHT
5292
20-Jun-2023
18:22
linh
pham



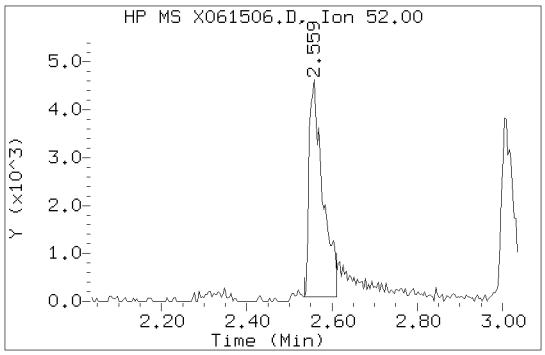

BEFORE

MASS
52
AREA
9980
HEIGHT
4535
20-Jun-2023
18:22
linh
pham




AFTER

MASS
52
AREA
9980
HEIGHT
4535
20-Jun-2023
18:22
linh
pham

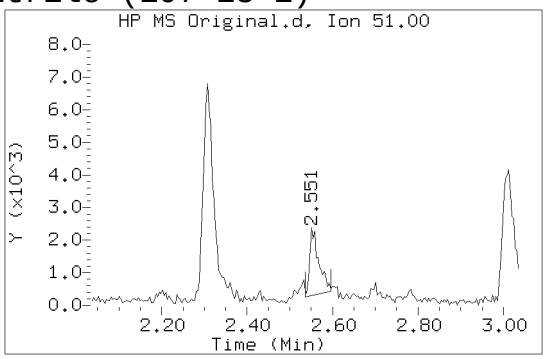


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061506.D
Inj Date : 15-JUN-2023 13:00
InstruID : voa6.i
LabSampID : VSTD005

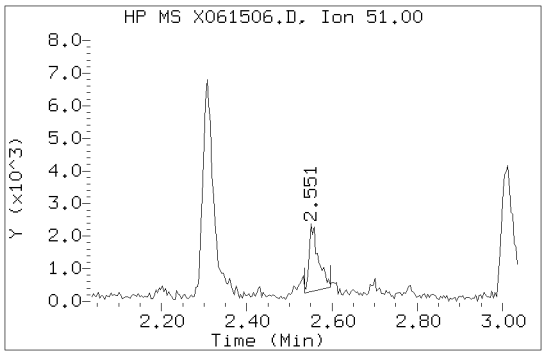
## Acrylonitrile (107-13-1)

Reason Code:

BEFORE
MASS
51
AREA
3090
HEIGHT
2079
20-Jun-2023
18:22
linh
pham



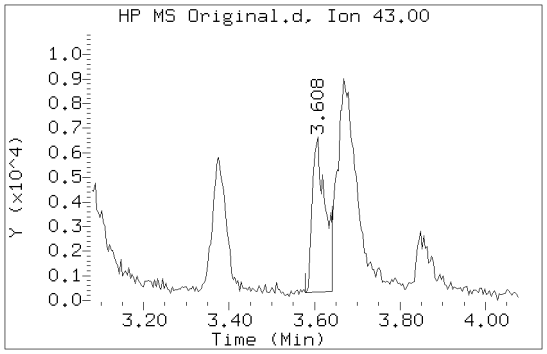

AFTER
MASS
51
AREA
3090
HEIGHT
2079
20-Jun-2023
18:22
linh
pham



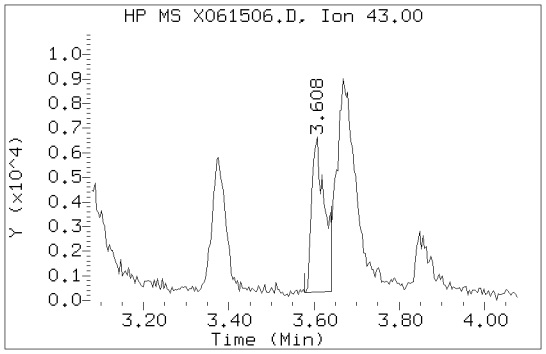

## 2-Butanone (78-93-3)

Reason Code:

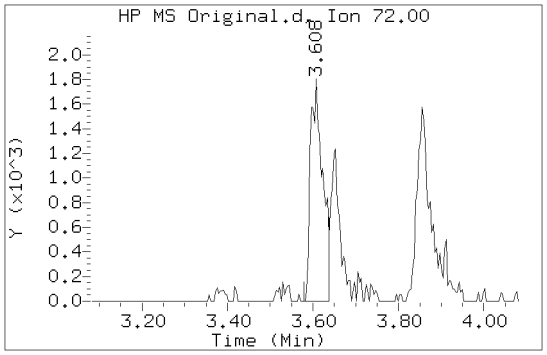
BEFORE
MASS
43
AREA
13344
HEIGHT
6305
20-Jun-2023
18:22
linh
pham



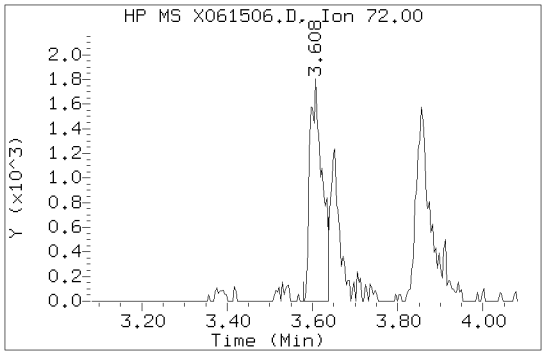

AFTER
MASS
43
AREA
13344
HEIGHT
6305
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
72
AREA
3589
HEIGHT
1804
20-Jun-2023
18:22
linh
pham



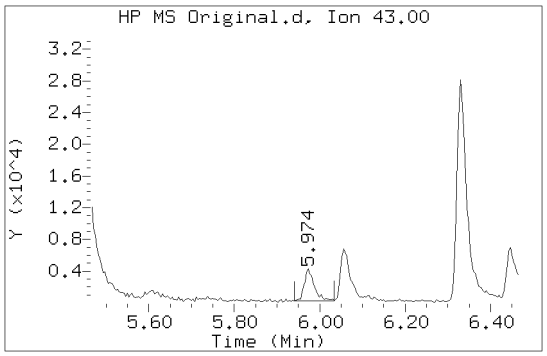

AFTER
MASS
72
AREA
3589
HEIGHT
1804
20-Jun-2023
18:22
linh
pham



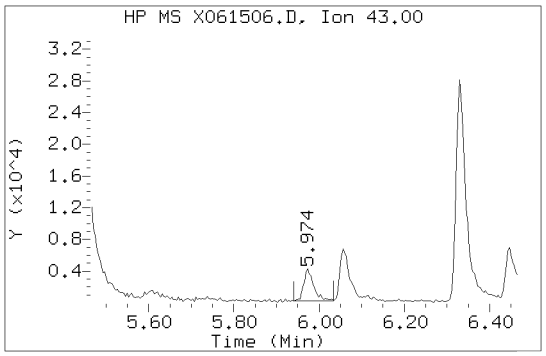

## 2-Nitropropane (79-46-9)

Reason Code:

BEFORE
MASS
43
AREA
6797
HEIGHT
4093
20-Jun-2023
18:22
linh
pham




AFTER
MASS
43
AREA
6797
HEIGHT
4093
20-Jun-2023
18:22
linh
pham



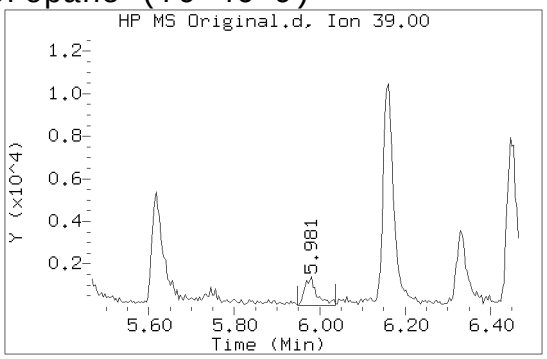
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061506.D
Inj Date : 15-JUN-2023 13:00
InstruID : voa6.i
LabSampID : VSTD005

## 2-Nitropropane (79-46-9)

Reason Code:

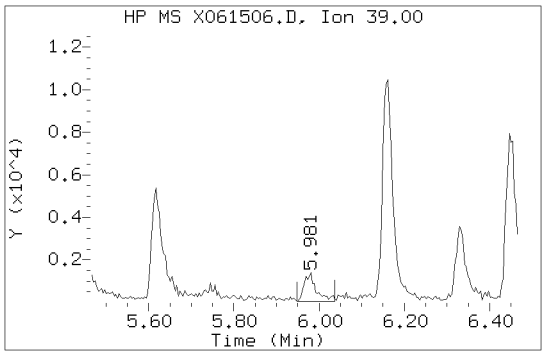
BEFORE

MASS
39
AREA
2672
HEIGHT
1366
20-Jun-2023
18:22
linh
pham




AFTER

MASS
39
AREA
2672
HEIGHT
1366
20-Jun-2023
18:22
linh
pham

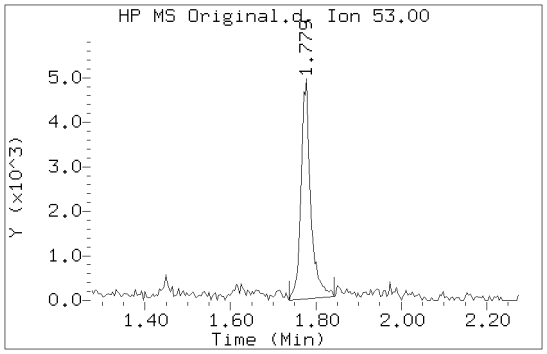



## Chloroprene (126-99-8)

Reason Code:

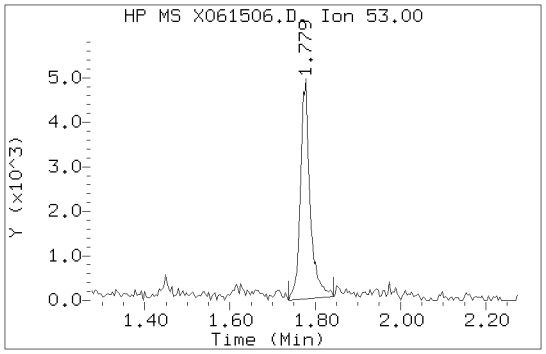
BEFORE

MASS
53
AREA
7954
HEIGHT
4945
20-Jun-2023
18:22
linh
pham



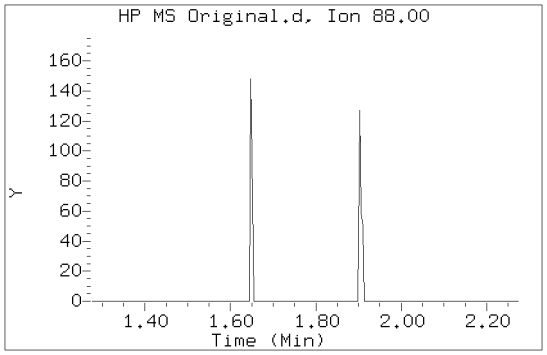

AFTER

MASS
53
AREA
7954
HEIGHT
4945
20-Jun-2023
18:22
linh
pham



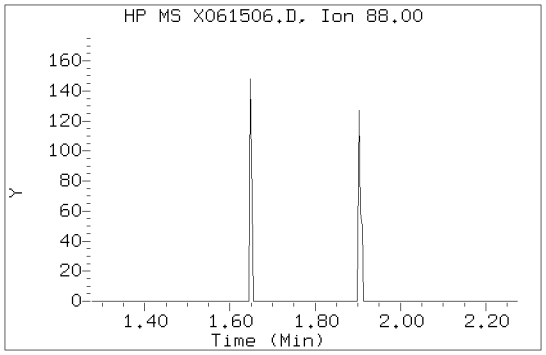

BEFORE

MASS
88
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER

MASS
88
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

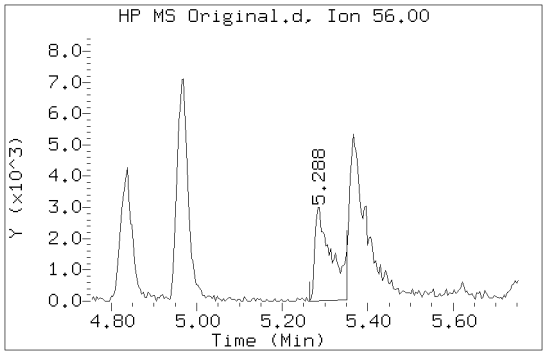



## n-Butanol (71-36-3)

Reason Code:

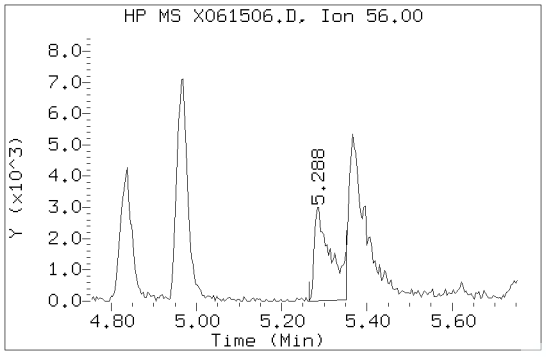
BEFORE

MASS
56
AREA
8163
HEIGHT
2995
20-Jun-2023
18:22
linh
pham




AFTER

MASS
56
AREA
8163
HEIGHT
2995
20-Jun-2023
18:22
linh
pham



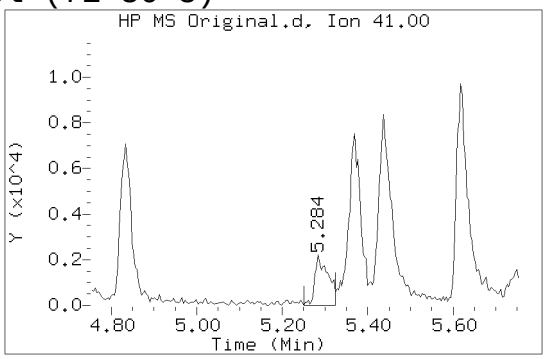
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061506.D
Inj Date : 15-JUN-2023 13:00
InstruID : voa6.i
LabSampID : VSTD005

## n-Butanol (71-36-3)

Reason Code:

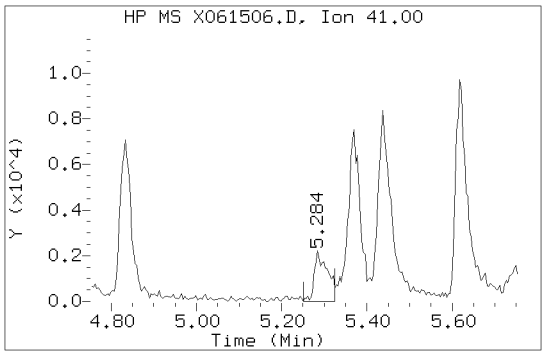
**BEFORE**

MASS
41
AREA
4755
HEIGHT
2223
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
41
AREA
4755
HEIGHT
2223
20-Jun-2023
18:22
linh
pham

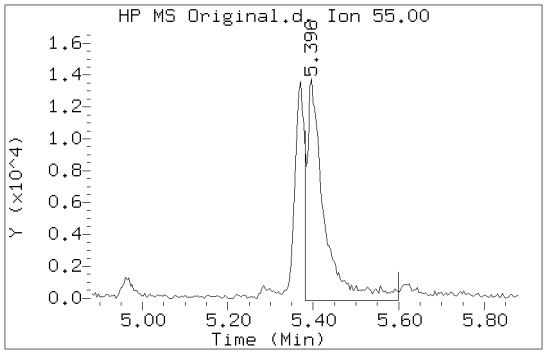



## Ethyl Acrylate (140-88-5)

Reason Code:

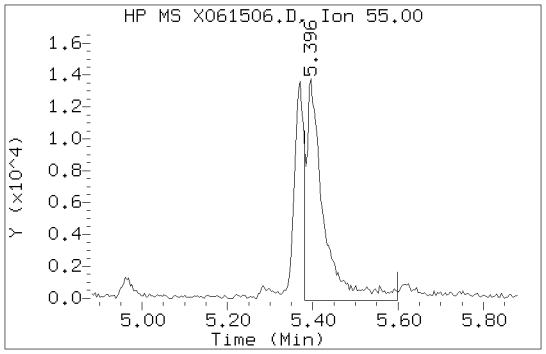
**BEFORE**

MASS
55
AREA
39998
HEIGHT
13904
20-Jun-2023
18:22
linh
pham



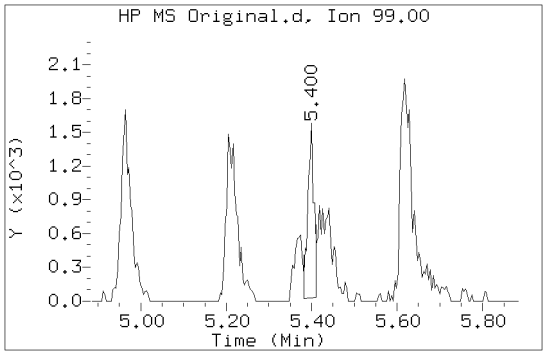

**AFTER**

MASS
55
AREA
39998
HEIGHT
13904
20-Jun-2023
18:22
linh
pham



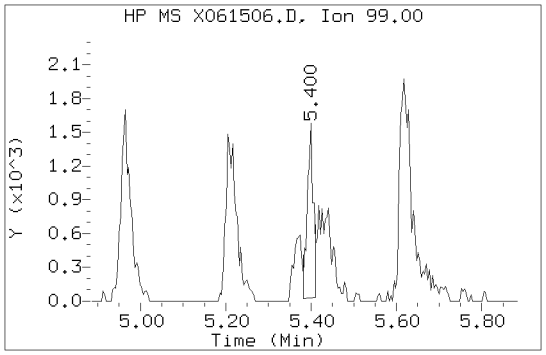

**BEFORE**

MASS
99
AREA
1584
HEIGHT
1553
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
99
AREA
1584
HEIGHT
1553
20-Jun-2023
18:22
linh
pham

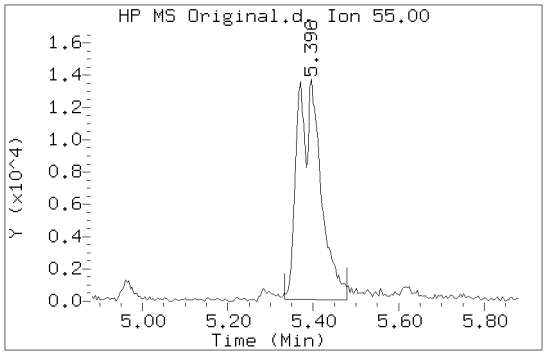



## Methylcyclohexane (108-87-2)

Reason Code:

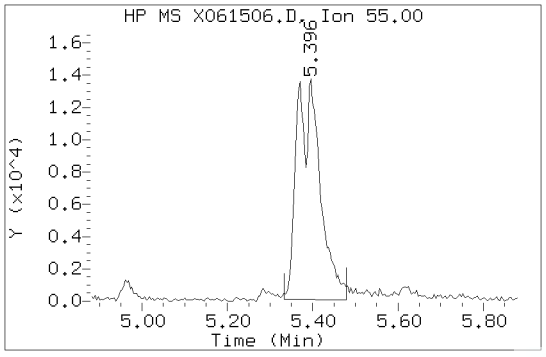
**BEFORE**

MASS
55
AREA
52494
HEIGHT
13657
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
55
AREA
52494
HEIGHT
13657
20-Jun-2023
18:22
linh
pham

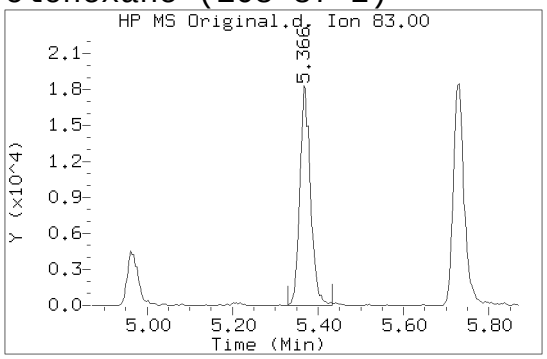


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061506.D
Inj Date : 15-JUN-2023 13:00
InstruID : voa6.i
LabSampID : VSTD005

## Methylcyclohexane (108-87-2)

**BEFORE**

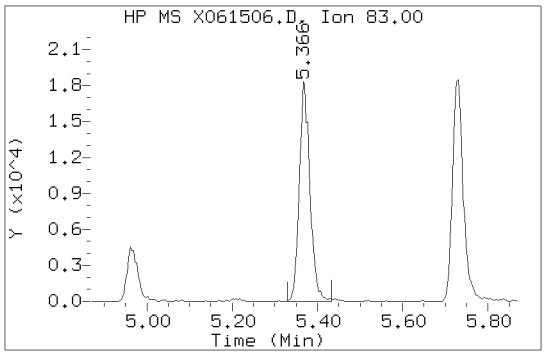
MASS
83
AREA
32433
HEIGHT
18360
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
83
AREA
32433
HEIGHT
18360
20-Jun-2023
18:22
linh
pham

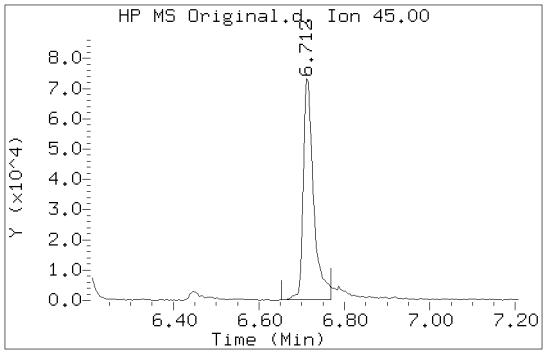
Reason Code:




## 4-Methyl-2-pentanol (108-11-2)

**BEFORE**

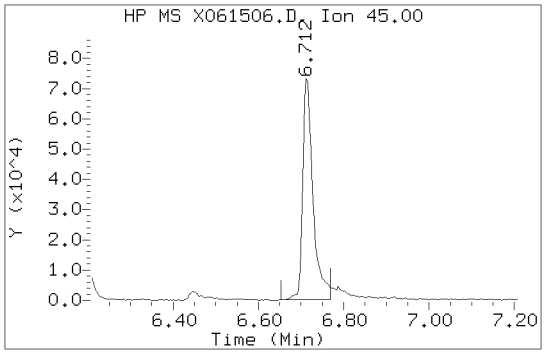
MASS
45
AREA
125924
HEIGHT
73043
20-Jun-2023
18:22
linh
pham




**AFTER**

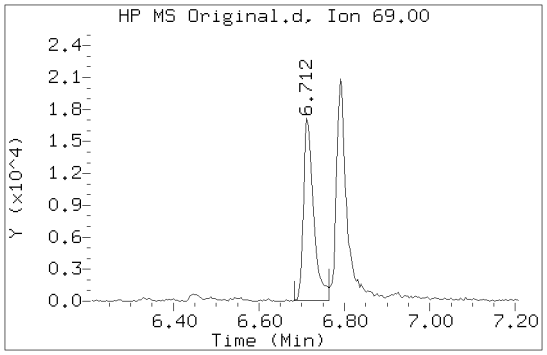
MASS
45
AREA
125924
HEIGHT
73043
20-Jun-2023
18:22
linh
pham

Reason Code:



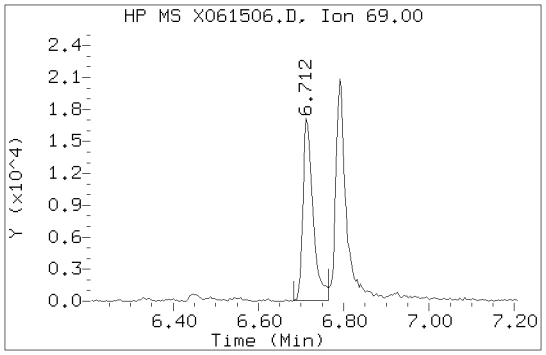

**BEFORE**

MASS
69
AREA
28757
HEIGHT
17156
20-Jun-2023
18:22
linh
pham




**AFTER**

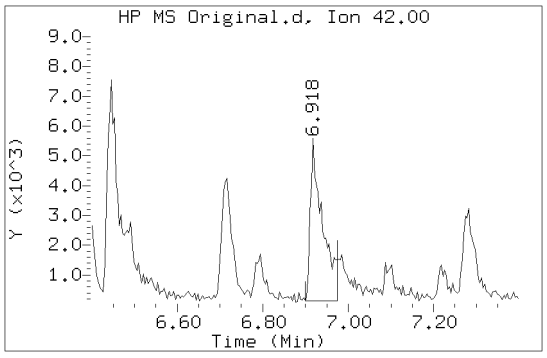
MASS
69
AREA
28757
HEIGHT
17156
20-Jun-2023
18:22
linh
pham




## Amyl alcohol (71-41-0)

**BEFORE**

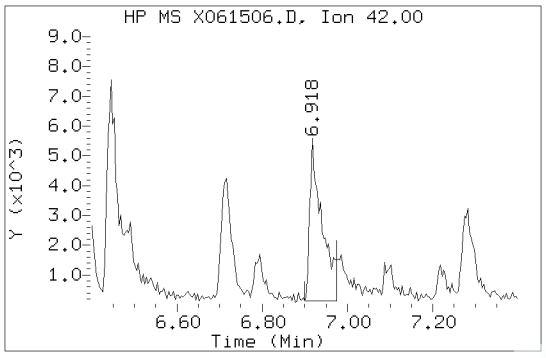
MASS
42
AREA
10877
HEIGHT
5451
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
42
AREA
10877
HEIGHT
5451
20-Jun-2023
18:22
linh
pham

Reason Code:



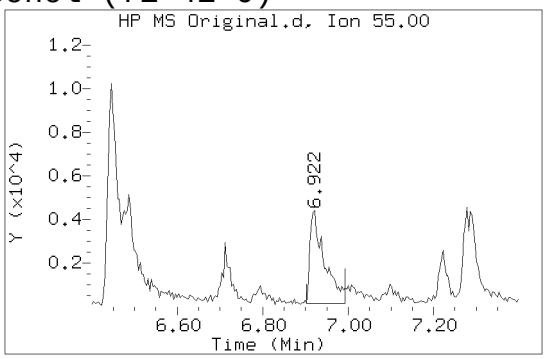
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061506.D
Inj Date : 15-JUN-2023 13:00
InstruID : voa6.i
LabSampID : VSTD005

## Amyl alcohol (71-41-0)

Reason Code:

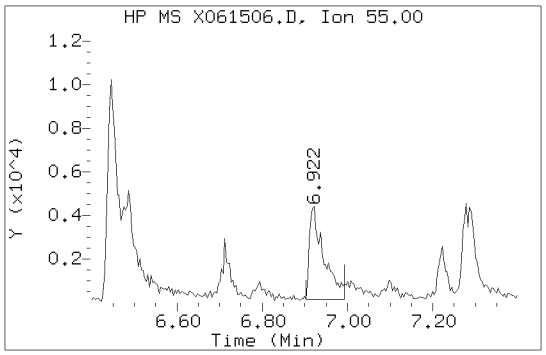
BEFORE

MASS
55
AREA
10033
HEIGHT
4262
20-Jun-2023
18:22
linh
pham



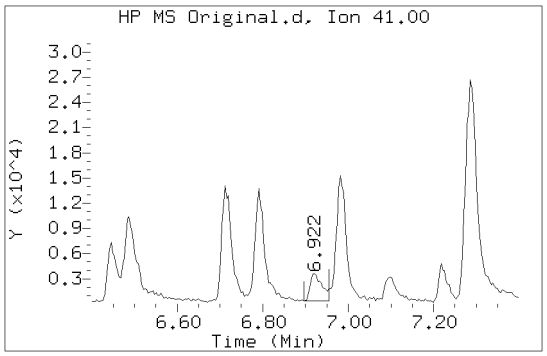

AFTER

MASS
55
AREA
10033
HEIGHT
4262
20-Jun-2023
18:22
linh
pham



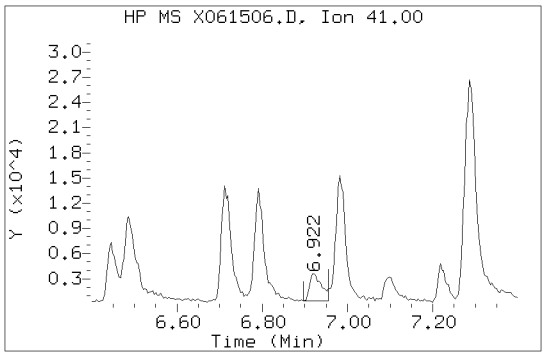

BEFORE

MASS
41
AREA
6570
HEIGHT
3230
20-Jun-2023
18:22
linh
pham




AFTER

MASS
41
AREA
6570
HEIGHT
3230
20-Jun-2023
18:22
linh
pham

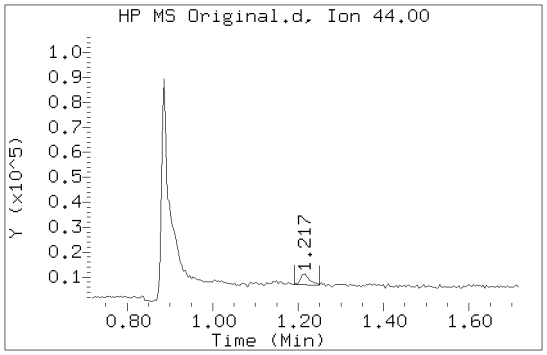



## Acetaldehyde (75-07-0)

Reason Code:

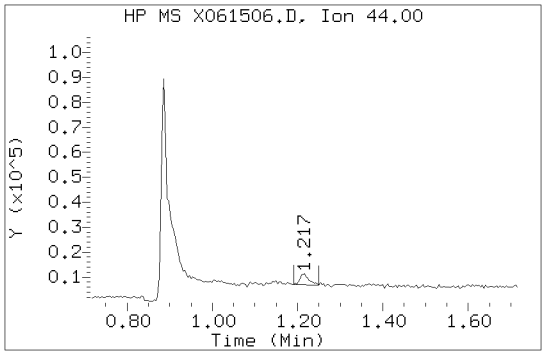
BEFORE

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AREA
6656
HEIGHT
4540
20-Jun-2023
18:22
linh
pham



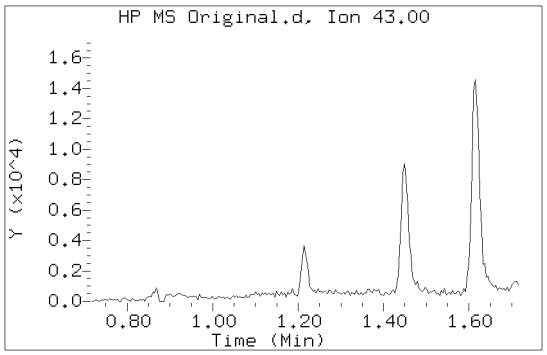

AFTER

MASS
44
AREA
6656
HEIGHT
4540
20-Jun-2023
18:22
linh
pham



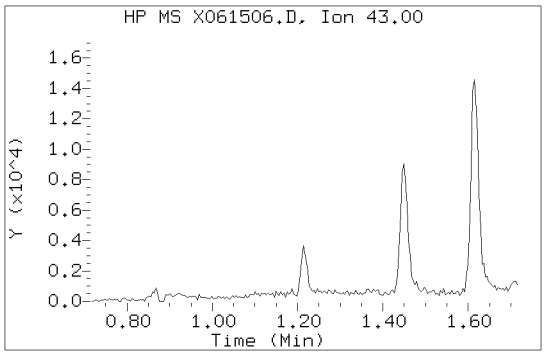

BEFORE

MASS
43
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER

MASS
43
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



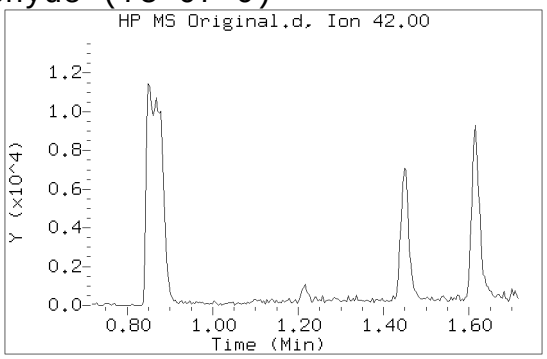
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Inj Date : 15-JUN-2023 13:00
InstruID : voa6.i
LabSampID : VSTD005

## Acetaldehyde (75-07-0)

Reason Code:

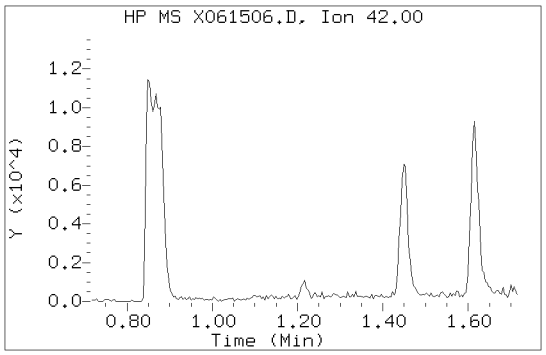
**BEFORE**

MASS
42
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
42
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

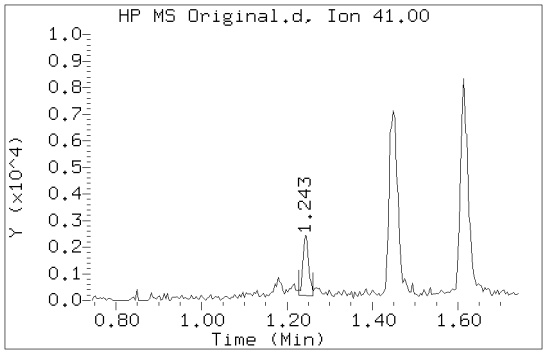



## Isobutylene (115-11-7)

Reason Code:

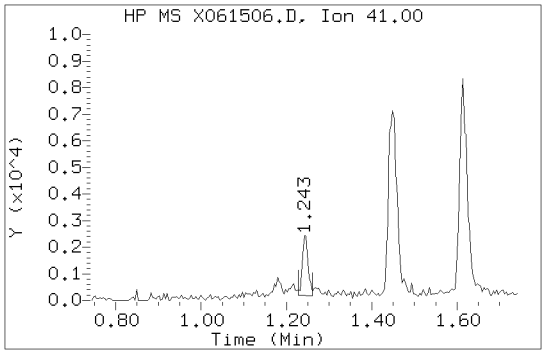
**BEFORE**

MASS
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AREA
2239
HEIGHT
2245
20-Jun-2023
18:22
linh
pham



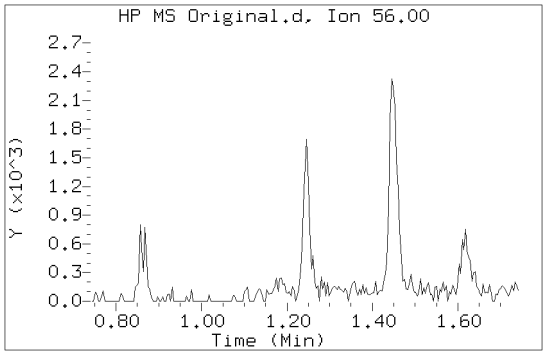

**AFTER**

MASS
41
AREA
2239
HEIGHT
2245
20-Jun-2023
18:22
linh
pham



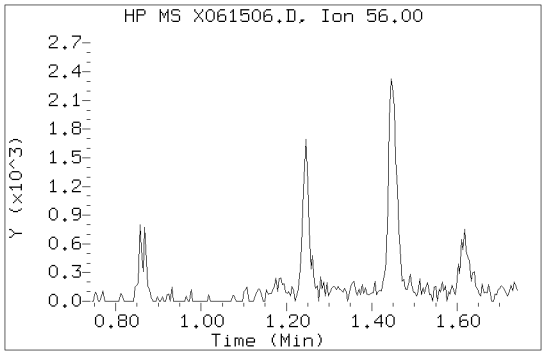

**BEFORE**

MASS
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AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



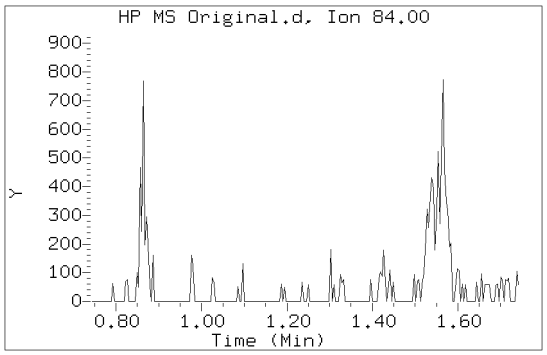

**AFTER**

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HEIGHT
0
20-Jun-2023
18:22
linh
pham



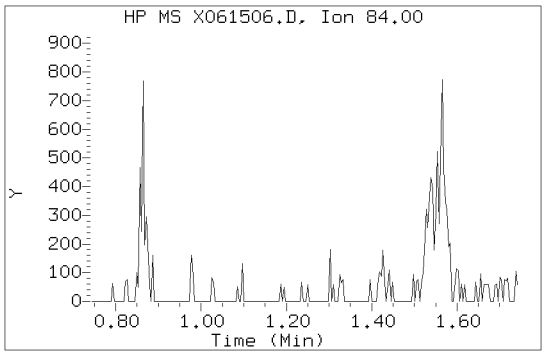

**BEFORE**

MASS
84
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
84
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



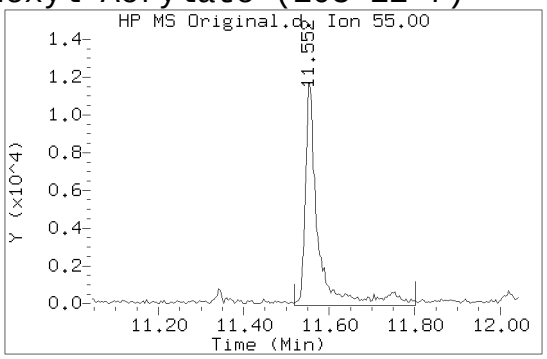
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Inj Date : 15-JUN-2023 13:00
InstruID : voa6.i
LabSampID : VSTD005

## 2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

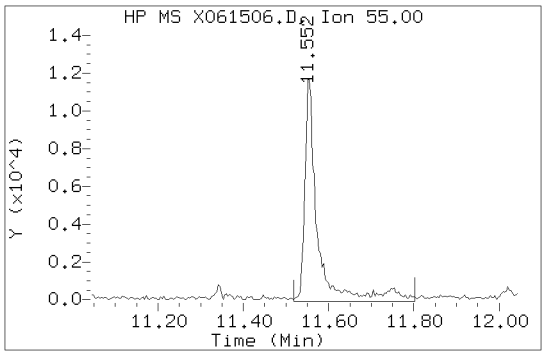
### BEFORE

MASS
55
AREA
25308
HEIGHT
11739
20-Jun-2023
18:22
linh
pham



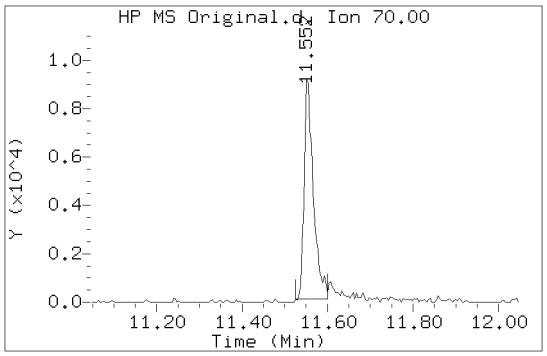

### AFTER

MASS
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AREA
25308
HEIGHT
11739
20-Jun-2023
18:22
linh
pham



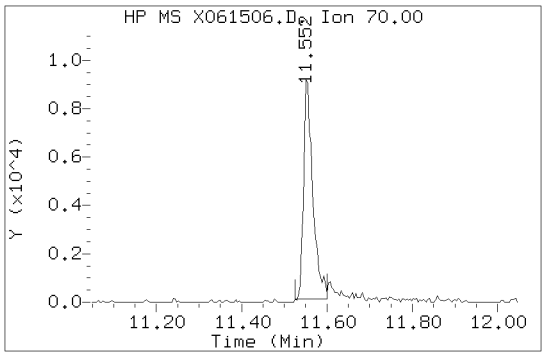

### BEFORE

MASS
70
AREA
13835
HEIGHT
9050
20-Jun-2023
18:22
linh
pham




### AFTER

MASS
70
AREA
13835
HEIGHT
9050
20-Jun-2023
18:22
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061507.D  Page 1
Report Date: 20-Jun-2023 18:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061507.D
Lab Smp Id: VSTD020  Client Smp ID: VSTD020
Inj Date  : 15-JUN-2023 13:21
Operator  : PC  Inst ID: voa6.i
Smp Info  : VSTD020;VSTD020;1;6;
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:21  Cal File: X061507.D
Als bottle: 8  Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 00000_8260.sub
Target Version:  4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.178 | 4.181 | (1.000) | 489657 | 50.0000 | |
| 2 | Dichlorodifluoromethane | 85 | 0.976 | 0.976 | (0.234) | 86585 | 20.0000 | 20.72 |
| 3 | Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 97329 | 20.0000 | 19.44 |
| 4 | Propionitrile | 54 | 3.653 | 3.653 | (0.874) | 124537 | 200.000 | 210.30(a) |
| 5 | Vinyl Chloride | 62 | 1.145 | 1.149 | (0.274) | 99862 | 20.0000 | 19.41 |
| 6 | Bromomethane | 94 | 1.344 | 1.344 | (0.322) | 54855 | 20.0000 | 18.58 |
| 7 | Chloroethane | 64 | 1.407 | 1.407 | (0.337) | 62269 | 20.0000 | 19.80 |
| 8 | Trichlorofluoromethane | 101 | 1.565 | 1.565 | (0.375) | 117479 | 20.0000 | 19.22 |
| 9 | Acrolein | 56 | 1.445 | 1.449 | (0.346) | 11716 | 40.0000 | 38.55 |
| 10 | Acetone | 43 | 1.977 | 1.973 | (0.473) | 54363 | 40.0000 | 42.42 |
| 11 | 1,1-Dichloroethene | 96 | 1.917 | 1.917 | (0.459) | 72051 | 20.0000 | 18.79 |
| 12 | Isobutyl Alcohol | 43 | 4.676 | 4.676 | (1.119) | 270352 | 400.000 | 423.44(a) |
| 13 | Acetonitrile | 39 | 2.202 | 2.202 | (0.527) | 94507 | 200.000 | 198.98(a) |
| 14 | Allyl Chloride | 41 | 2.202 | 2.202 | (0.527) | 212180 | 20.0000 | 19.75(a) |
| 15 | Iodomethane | 142 | 2.030 | 2.030 | (0.486) | 223261 | 40.0000 | 36.88 |
| 16 | Acrylonitrile | 53 | 2.539 | 2.536 | (0.608) | 63444 | 40.0000 | 40.81 |
| 17 | Methylene Chloride | 84 | 2.303 | 2.307 | (0.551) | 103912 | 20.0000 | 19.18 |
| 18 | Methyl tert-butyl ether | 73 | 2.536 | 2.536 | (0.607) | 262034 | 20.0000 | 19.58 |
| 19 | Carbon Disulfide | 76 | 2.071 | 2.071 | (0.496) | 517323 | 40.0000 | 37.89 |
| 20 | trans-1,2-Dichloroethene | 96 | 2.532 | 2.532 | (0.606) | 87737 | 20.0000 | 19.12 |
| 21 | Vinyl Acetate | 43 | 3.000 | 2.997 | (0.718) | 534964 | 40.0000 | 43.69 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 22 1,1-Dichloroethane | 63 | 2.922 | 2.922 (0.699) | 161028 | 20.0000 | 19.48 |
| 23 Chloroprene | 53 | 1.775 | 1.775 (0.425) | 30284 | 20.0000 | 18.60(M) |

| | | | | | | | AMOUNTS | |
|---|---|---|---|---|---|---|---|---|
| | | QUANT SIG | | | | | CAL-AMT | ON-COL |
| | Compounds | MASS | RT | EXP RT | REL RT | RESPONSE | ( ug/l) | ( ug/l) |
| | 24 2-Butanone | 43 | 3.585 | 3.578 | (0.858) | 61551 | 40.0000 | 38.19 |
| | 25 Methacrylonitrile | 41 | 3.829 | 3.821 | (0.917) | 80752 | 20.0000 | 19.98(aH) |
| | 26 2,2-Dichloropropane | 77 | 3.510 | 3.514 | (0.840) | 134641 | 20.0000 | 20.64 |
| | 27 cis-1,2-Dichloroethene | 96 | 3.529 | 3.525 | (0.845) | 101910 | 20.0000 | 19.26 |
| | 28 Chloroform | 83 | 3.908 | 3.904 | (0.935) | 168304 | 20.0000 | 18.92 |
| | 29 Bromochloromethane | 128 | 3.795 | 3.795 | (0.908) | 53335 | 20.0000 | 18.92 |
| $ | 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.981) | 90715 | 20.0000 | 20.54 |
| | 31 1,1,1-Trichloroethane | 97 | 4.084 | 4.084 | (0.978) | 137926 | 20.0000 | 19.18 |
| | 32 1,1-Dichloropropene | 75 | 4.282 | 4.279 | (0.863) | 120835 | 20.0000 | 19.11 |
| | 33 1,2-Dichloroethane | 62 | 4.556 | 4.556 | (0.918) | 124099 | 20.0000 | 19.58 |
| | 34 Carbon Tetrachloride | 117 | 4.264 | 4.264 | (0.859) | 114389 | 20.0000 | 18.81 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 4.474 | 4.470 | (1.071) | 99379 | 20.0000 | 20.55 |
| * | 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 754600 | 50.0000 | |
| | 37 Benzene | 78 | 4.511 | 4.511 | (0.909) | 373170 | 20.0000 | 19.22 |
| | 38 Trichloroethene | 130 | 5.208 | 5.205 | (1.049) | 103081 | 20.0000 | 19.26 |
| | 39 Bromodichloromethane | 83 | 5.726 | 5.722 | (1.153) | 130164 | 20.0000 | 18.95 |
| | 40 Methyl Methacrylate | 41 | 5.606 | 5.606 | (1.342) | 77299 | 20.0000 | 20.39(a) |
| | 41 2-Chloroethylvinyl ether | 63 | 6.048 | 6.048 | (1.218) | 79598 | 40.0000 | 42.84 |
| | 42 1,2-Dichloropropane | 63 | 5.433 | 5.437 | (1.094) | 100950 | 20.0000 | 19.81 |
| | 43 2-Nitropropane | 43 | 5.969 | 5.966 | (1.429) | 26346 | 20.0000 | 19.96(H) |
| | 44 Dibromomethane | 93 | 5.550 | 5.550 | (1.118) | 63997 | 20.0000 | 20.00 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.325 | 6.322 | (0.825) | 193266 | 40.0000 | 42.28 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.153 | 6.153 | (1.239) | 164762 | 20.0000 | 19.46 |
| * | 47 Chlorobenzene-d5 | 117 | 7.667 | 7.668 | (1.000) | 707583 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.385 | 6.386 | (0.833) | 349010 | 20.0000 | 19.50 |
| | 49 Ethyl Methacrylate | 69 | 6.708 | 6.708 | (1.351) | 110734 | 20.0000 | 20.47(a) |
| | 50 Toluene | 91 | 6.445 | 6.445 | (0.841) | 400928 | 20.0000 | 19.30 |
| | 51 trans-1,3-Dichloropropene | 75 | 6.682 | 6.678 | (1.346) | 140752 | 20.0000 | 19.87 |
| | 52 2-Hexanone | 43 | 7.086 | 7.083 | (0.924) | 134211 | 40.0000 | 43.95 |
| | 53 1,1,2-Trichloroethane | 83 | 6.835 | 6.835 | (0.891) | 78488 | 20.0000 | 19.39 |
| | 54 1,3-Dichloropropane | 76 | 6.981 | 6.978 | (0.911) | 163359 | 20.0000 | 19.96 |
| | 55 Dibromochloromethane | 129 | 7.173 | 7.173 | (0.935) | 111592 | 20.0000 | 19.45 |
| | 56 Tetrachloroethene | 164 | 6.925 | 6.925 | (0.903) | 80991 | 20.0000 | 18.95 |
| | 57 1,2-Dibromoethane | 107 | 7.259 | 7.259 | (0.947) | 100177 | 20.0000 | 19.36 |
| | 58 1-Chlorohexane | 55 | 7.694 | 7.694 | (1.550) | 89942 | 20.0000 | 19.59 |
| | 59 Chlorobenzene | 112 | 7.694 | 7.690 | (1.003) | 272588 | 20.0000 | 19.17 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 7.772 | 7.773 | (1.014) | 101037 | 20.0000 | 19.06 |
| | 61 Ethylbenzene | 106 | 7.799 | 7.799 | (1.017) | 138944 | 20.0000 | 18.97 |
| | 62 m,p-Xylenes | 106 | 7.904 | 7.900 | (1.031) | 349440 | 40.0000 | 38.69 |
| | 63 o-Xylene | 106 | 8.241 | 8.237 | (1.075) | 172627 | 20.0000 | 19.15 |
| | 64 Styrene | 104 | 8.260 | 8.256 | (1.077) | 290351 | 20.0000 | 19.56 |
| | 66 Bromoform | 173 | 8.410 | 8.410 | (1.097) | 77639 | 20.0000 | 19.41 |
| | 67 Isopropylbenzene | 105 | 8.560 | 8.560 | (1.116) | 418865 | 20.0000 | 18.80 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 8.837 | 8.837 | (0.915) | 134456 | 20.0000 | 19.65 |
| $ | 69 4-Bromofluorobenzene | 95 | 8.687 | 8.687 | (1.133) | 139706 | 20.0000 | 19.90 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.658 | (1.000) | 389124 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 8.860 | 8.863 | (0.917) | 108010 | 20.0000 | 22.01 |
| | 72 trans-1,4-Dichloro-2-butene | 53 | 8.886 | 8.886 | (1.159) | 35313 | 20.0000 | 20.50(a) |
| | 73 n-Propylbenzene | 91 | 8.912 | 8.908 | (0.922) | 504305 | 20.0000 | 19.69 |
| | 74 Bromobenzene | 156 | 8.803 | 8.803 | (0.911) | 122207 | 20.0000 | 19.26 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.066 | 9.066 | (0.938) | 365012 | 20.0000 | 19.42 |
| | 76 2-Chlorotoluene | 91 | 8.972 | 8.972 | (0.929) | 315569 | 20.0000 | 19.40 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 77 | 4-Chlorotoluene | 91 | 9.069 | 9.070 (0.939) | 357516 | 20.0000 | 19.71 |
| 78 | tert-Butylbenzene | 119 | 9.332 | 9.336 (0.966) | 303752 | 20.0000 | 19.40 |

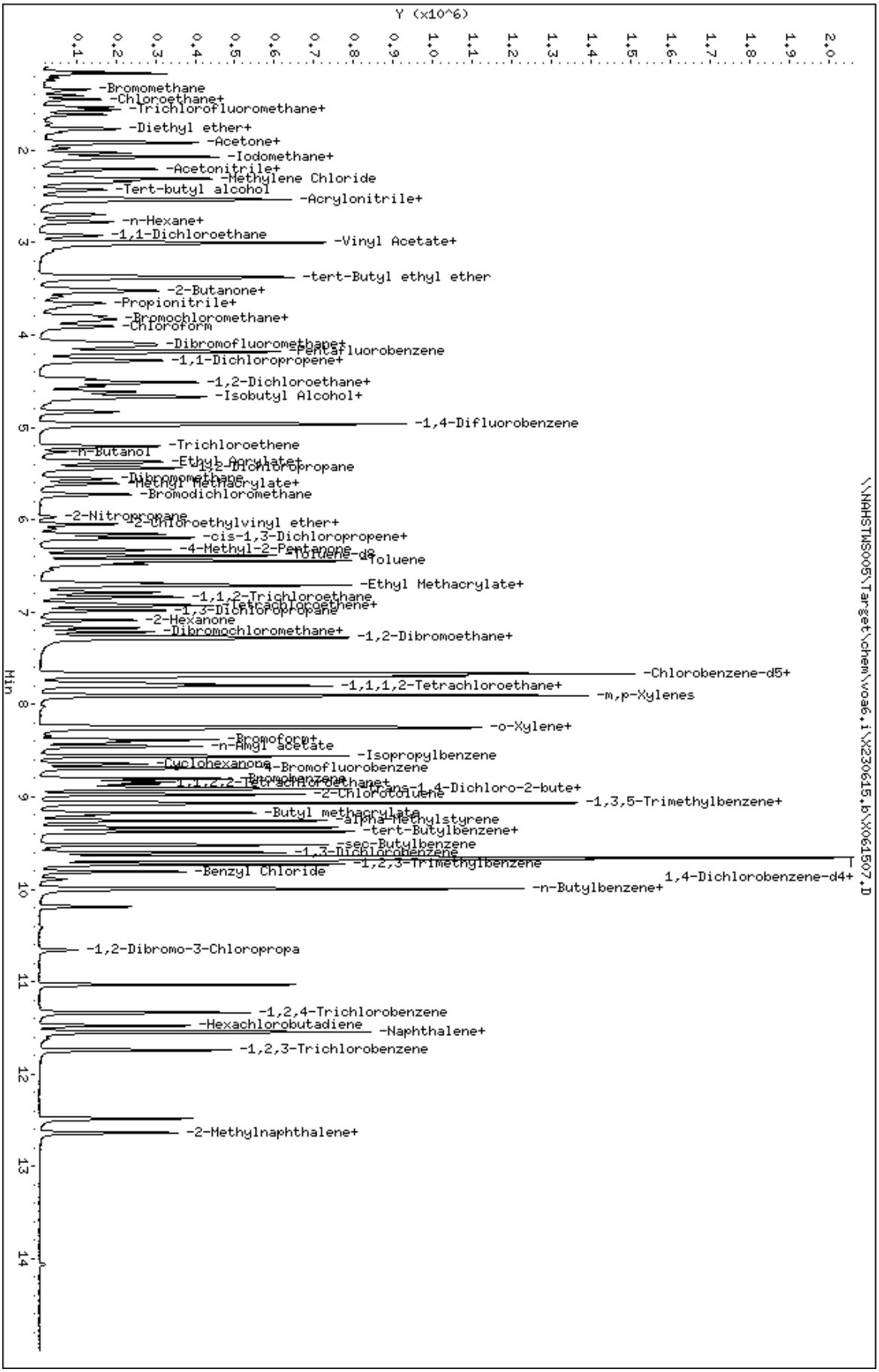
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 79 | 1,2,4-Trimethylbenzene | 105 | 9.377 | 9.377 | (0.971) | 371444 | 20.0000 | 19.59 |
| 81 | sec-Butylbenzene | 105 | 9.519 | 9.519 | (0.985) | 419674 | 20.0000 | 19.00 |
| 82 | p-Isopropyltoluene | 119 | 9.647 | 9.647 | (0.998) | 375150 | 20.0000 | 19.40 |
| 83 | 1,3-Dichlorobenzene | 146 | 9.602 | 9.602 | (0.994) | 218959 | 20.0000 | 19.38 |
| 84 | 1,4-Dichlorobenzene | 146 | 9.681 | 9.681 | (1.002) | 232551 | 20.0000 | 19.23 |
| 86 | Benzyl Chloride | 91 | 9.808 | 9.808 | (1.279) | 224211 | 20.0000 | 19.18 |
| 87 | n-Butylbenzene | 91 | 9.995 | 9.992 | (1.035) | 329929 | 20.0000 | 20.04 |
| 88 | 1,2-Dichlorobenzene | 146 | 9.992 | 9.992 | (1.034) | 219152 | 20.0000 | 19.55 |
| 89 | 1,2-Dibromo-3-Chloropropane | 155 | 10.659 | 10.655 | (1.103) | 22086 | 20.0000 | 19.93 |
| 90 | 1,2,4-Trichlorobenzene | 180 | 11.337 | 11.334 | (1.173) | 155839 | 20.0000 | 19.99 |
| 91 | Hexachlorobutadiene | 225 | 11.476 | 11.476 | (1.188) | 63742 | 20.0000 | 18.21 |
| 92 | Naphthalene | 128 | 11.544 | 11.540 | (1.195) | 366963 | 20.0000 | 20.91 |
| 93 | 1,2,3-Trichlorobenzene | 180 | 11.742 | 11.739 | (1.215) | 143690 | 20.0000 | 20.03 |
| 146 | Methyl acetate | 43 | 2.236 | 2.232 | (0.535) | 60459 | 20.0000 | 20.86 |
| 138 | Freon TF | 101 | 1.917 | 1.917 | (0.459) | 69934 | 20.0000 | 20.78 |
| 141 | Cyclohexane | 56 | 4.121 | 4.121 | (0.987) | 118290 | 20.0000 | 18.95 |
| 142 | Tetrahydrofuran | 42 | 3.848 | 3.844 | (0.921) | 30075 | 40.0000 | 42.14 |
| 147 | Methylcyclohexane | 55 | 5.381 | 5.381 | (1.084) | 202443 | 20.0000 | 19.19(M) |
| 135 | 1,4-Dioxane | 88 | 5.598 | 5.598 | (1.340) | 23581 | 400.000 | 397.38 |
| 132 | n-Butanol | 56 | 5.261 | 5.253 | (1.259) | 42441 | 400.000 | 375.27(a) |
| 131 | Methyl Acrylate | 55 | 3.694 | 3.690 | (0.884) | 81771 | 20.0000 | 20.61 |
| 133 | Ethyl Acrylate | 55 | 5.381 | 5.381 | (1.288) | 144388 | 20.0000 | 14.83(M) |
| 136 | n-Hexane | 57 | 2.772 | 2.776 | (0.664) | 95375 | 20.0000 | 21.84 |
| 139 | Diethyl ether | 59 | 1.760 | 1.760 | (0.421) | 60650 | 20.0000 | 19.77 |
| 148 | Tert-butyl alcohol | 59 | 2.431 | 2.431 | (0.582) | 196347 | 400.000 | 390.48 |
| 149 | Isopropyl alcohol | 45 | 2.097 | 2.093 | (0.502) | 106653 | 400.000 | 384.27 |
| 156 | Diisopropyl ether | 45 | 3.000 | 3.000 | (0.718) | 281797 | 20.0000 | 19.51 |
| 160 | 2-Methylnaphthalene | 142 | 12.638 | 12.634 | (1.308) | 157545 | 20.0000 | 20.51 |
| 166 | 1,2,3-Trimethylbenzene | 105 | 9.729 | 9.729 | (1.007) | 360447 | 20.0000 | 19.48 |
| 167 | Ethanol | 45 | 1.707 | 1.707 | (0.409) | 18569 | 400.000 | 396.76 |
| 172 | tert-Butyl formate | 59 | 4.616 | 4.612 | (1.105) | 159552 | 40.0000 | 39.56 |
| 173 | 3,3-Dimethyl-1-butanol | 57 | 7.285 | 7.285 | (0.950) | 229127 | 400.000 | 395.91 |
| 174 | tert-Amyl methyl ether | 73 | 4.665 | 4.665 | (1.117) | 299445 | 20.0000 | 19.06 |
| 175 | tert-Butyl ethyl ether | 59 | 3.379 | 3.379 | (0.809) | 286959 | 20.0000 | 19.19 |
| 176 | tert-Amyl alcohol | 59 | 4.616 | 4.612 | (1.105) | 159552 | 400.000 | 387.92 |
| 151 | 4-Methyl-2-pentanol | 45 | 6.708 | 6.708 | (1.351) | 449919 | 400.000 | 374.94 |
| 180 | 1-Methylnaphthalene | 142 | 12.638 | 12.634 | (1.308) | 157545 | 20.0000 | (a) |
| 140 | 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.280) | 79048 | 20.0000 | 19.48 |
| 152 | Amyl alcohol | 42 | 6.903 | 6.899 | (0.900) | 53030 | 400.000 | 402.24 |
| 158 | Dichlorofluoromethane | 67 | 1.535 | 1.535 | (0.367) | 130577 | 20.0000 | 18.55 |
| 159 | Propylene oxide | 43 | 1.805 | 1.805 | (0.432) | 16191 | 40.0000 | 37.29 |
| 161 | 3-Methyl-1-butanol | 55 | 6.903 | 6.899 | (0.900) | 52635 | 400.000 | 408.16 |
| 162 | Butyl acrylate | 55 | 8.252 | 8.249 | (1.076) | 203667 | 20.0000 | 19.81 |
| 163 | Butyl methacrylate | 41 | 9.171 | 9.167 | (0.949) | 139381 | 20.0000 | 21.29 |
| 164 | Dicyclopentadiene | 66 | 9.681 | 9.681 | (1.002) | 418286 | 20.0000 | 19.21 |
| 182 | Epichlorohydrin | 57 | 6.097 | 6.093 | (1.228) | 35522 | 80.0000 | 78.69 |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 189647 | 40.0000 | (a) |
| 145 | alpha-Methylstyrene | 118 | 9.257 | 9.257 | (0.958) | 183918 | 20.0000 | 19.97 |
| 130 | Ethyl Acetate | 43 | 3.656 | 3.657 | (0.875) | 104842 | 20.0000 | 21.00 |
| 134 | Cyclohexanone | 55 | 8.642 | 8.642 | (0.894) | 91911 | 400.000 | 410.27(a) |
| 185 | Isoprene | 39 | 1.771 | 1.775 | (0.424) | 22566 | 20.0000 | 16.93 |
| 188 | Isopropyl acetate | 43 | 4.676 | 4.676 | (0.942) | 270352 | 20.0000 | 20.74 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 187 n-Amyl acetate | 43 | 8.451 | 8.451 (1.102) | 194165 | 20.0000 | 20.49 |
| 189 n-Butyl acetate | 43 | 7.214 | 7.210 (0.941) | 161428 | 20.0000 | 21.30(H) |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| 150 Allyl alcohol | 57 | 2.772 | 2.772 | (0.664) | 95375 | 400.000 | 436.24 |
| 194 Acetaldehyde | 44 | 1.216 | 1.216 | (0.291) | 20285 | 80.0000 | 76.62(M) |
| 195 Methyl Amyl Ketone | 43 | 8.380 | 8.380 | (1.093) | 220297 | 20.0000 | 21.14 |
| 200 Dimethyl Disulfide | 94 | 6.198 | 6.194 | (0.808) | 203599 | 20.0000 | 19.40 |
| 202 Isobutylene | 41 | 1.242 | 1.242 | (0.297) | 8262 | 20.0000 | 17.64(M) |
| 205 2-Ethylhexyl Acrylate | 55 | 11.547 | 11.544 | (1.195) | 120798 | 20.0000 | 17.62(M) |

## QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.




Data File: \\NAHSTWS005\Target\chem\voa6,i\X230615,b\X061507,D
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Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;6;
Purge Volume: 5.0
Column phase: DB624

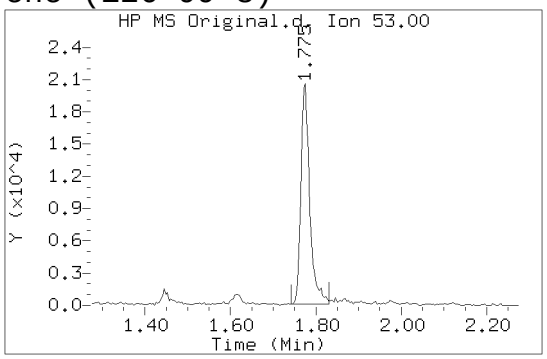
Instrument: voa6,i
Operator: PC
Column diameter: 0.18

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InstruID : voa6.i
LabSampID : VSTD020

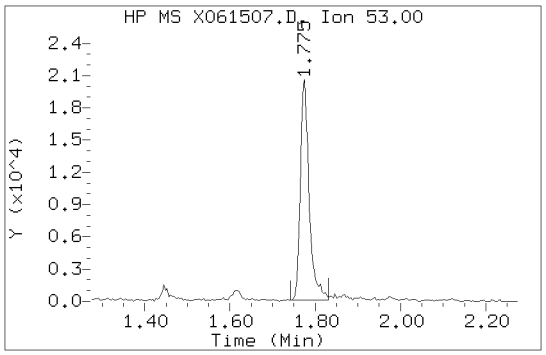
## Chloroprene (126-99-8)

Reason Code:

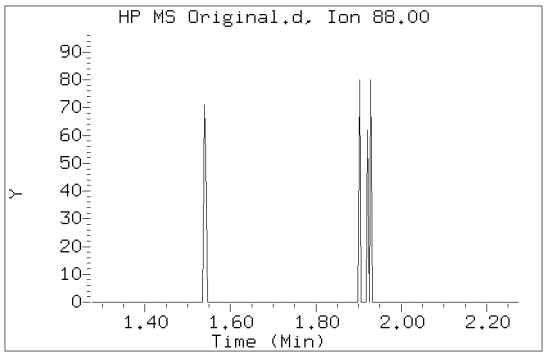
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MASS
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HEIGHT
20488
20-Jun-2023
18:22
linh
pham



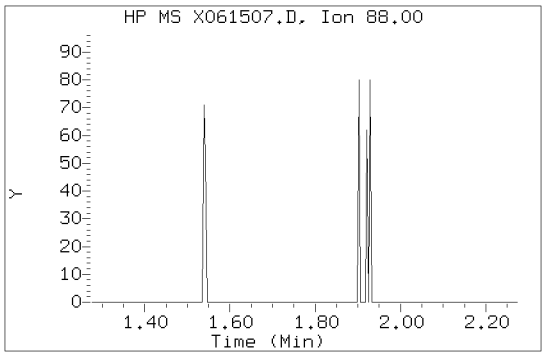

AFTER
MASS
53
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HEIGHT
20488
20-Jun-2023
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BEFORE
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0
20-Jun-2023
18:22
linh
pham



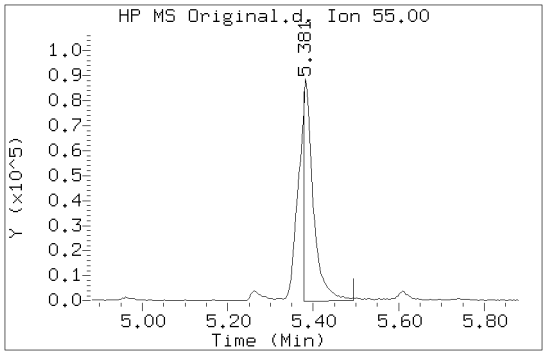

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18:22
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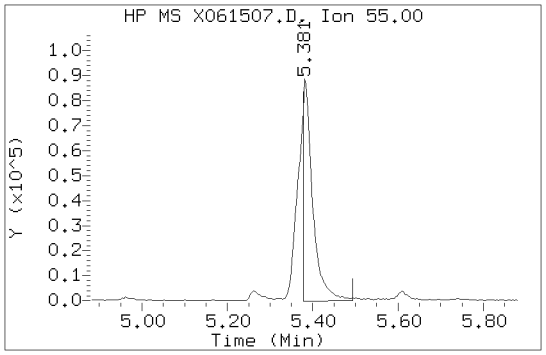

## Ethyl Acrylate (140-88-5)

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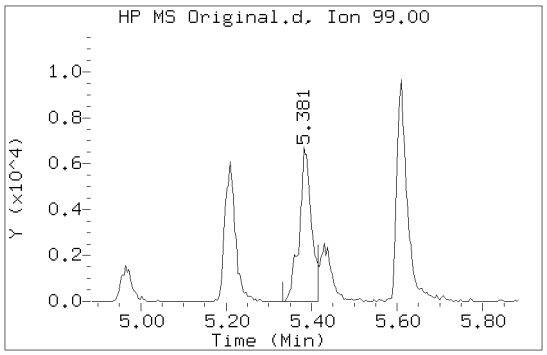
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HEIGHT
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18:22
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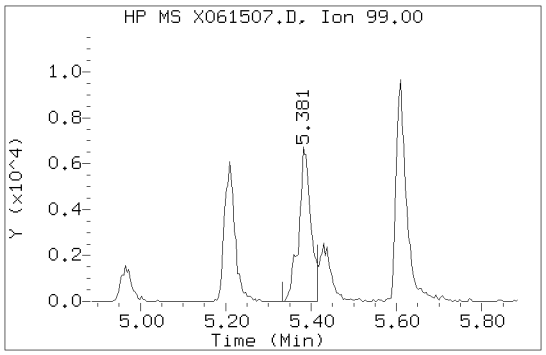

AFTER
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20-Jun-2023
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BEFORE
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13480
HEIGHT
6732
20-Jun-2023
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AFTER
MASS
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AREA
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HEIGHT
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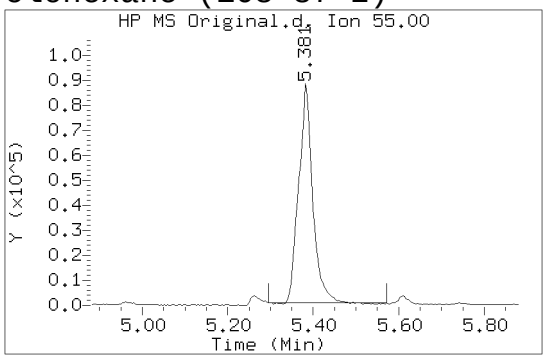


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Inj Date : 15-JUN-2023 13:21
InstruID : voa6.i
LabSampID : VSTD020

## Methylcyclohexane (108-87-2)

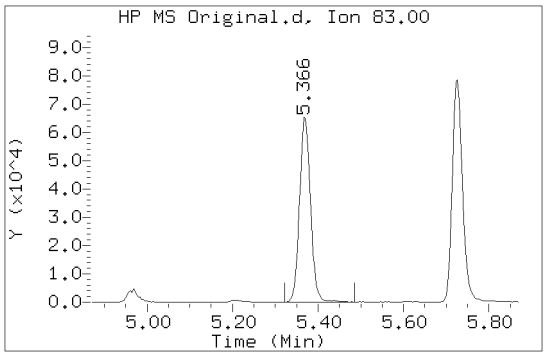
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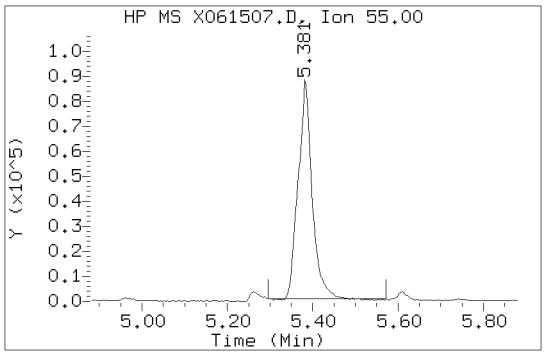
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20-Jun-2023
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### Reason Code:

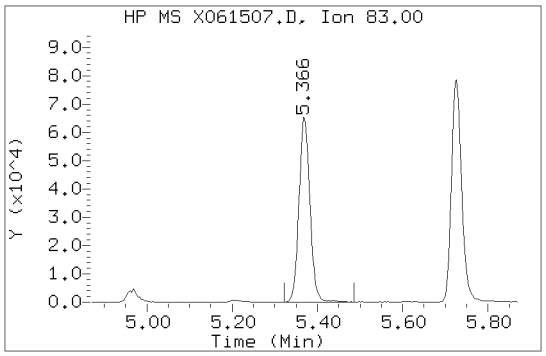
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### AFTER

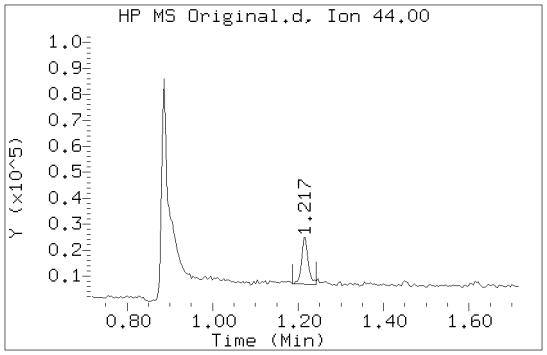
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HEIGHT
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20-Jun-2023
18:22
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## Acetaldehyde (75-07-0)

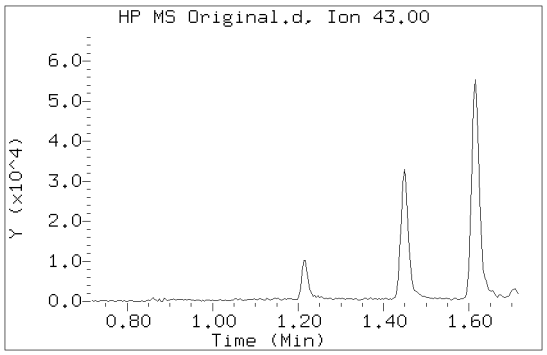
### BEFORE

MASS
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20-Jun-2023
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### BEFORE

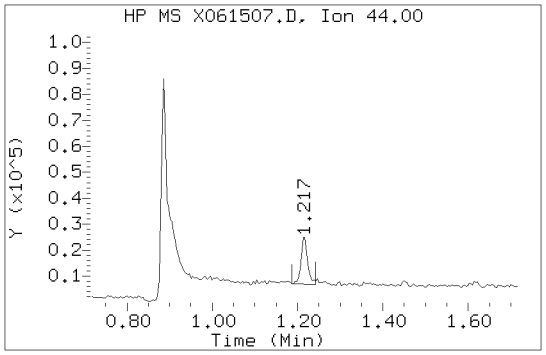
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### Reason Code:

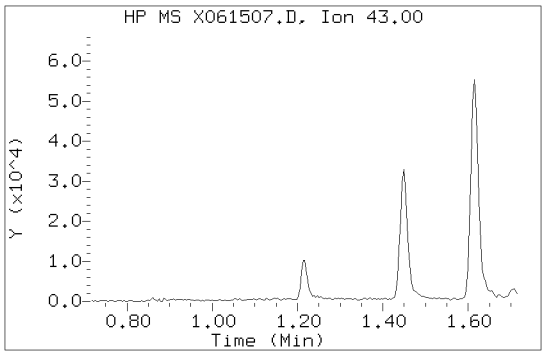
### AFTER

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20-Jun-2023
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### AFTER

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HEIGHT
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20-Jun-2023
18:22
linh
pham

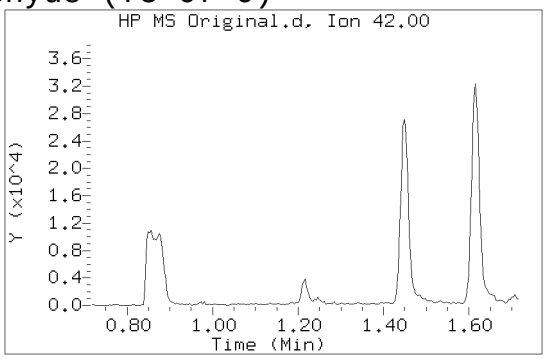


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Inj Date : 15-JUN-2023 13:21
InstruID : voa6.i
LabSampID : VSTD020

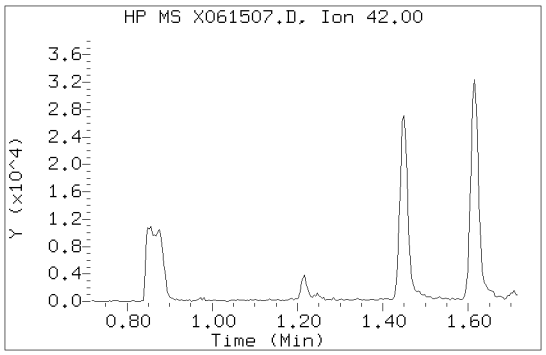
## Acetaldehyde (75-07-0)

Reason Code:

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20-Jun-2023
18:22
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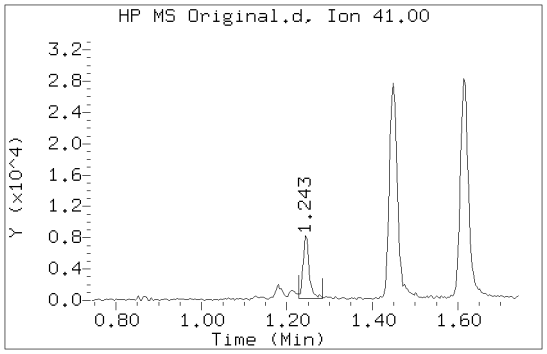

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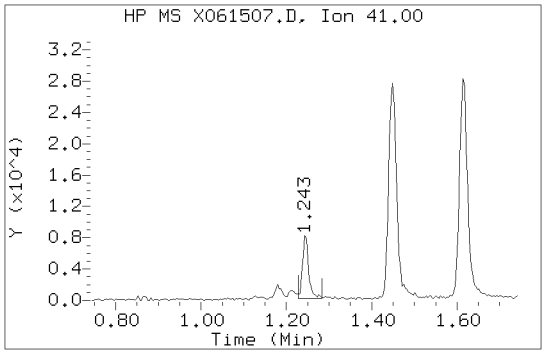

## Isobutylene (115-11-7)

Reason Code:

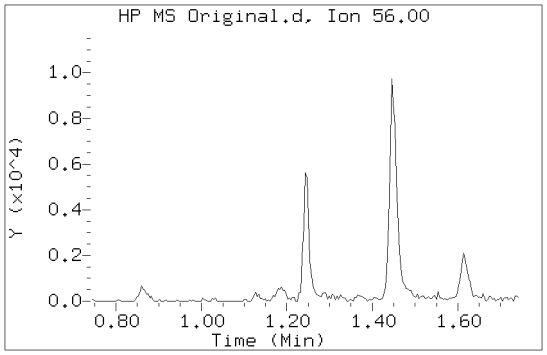
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HEIGHT
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20-Jun-2023
18:22
linh
pham



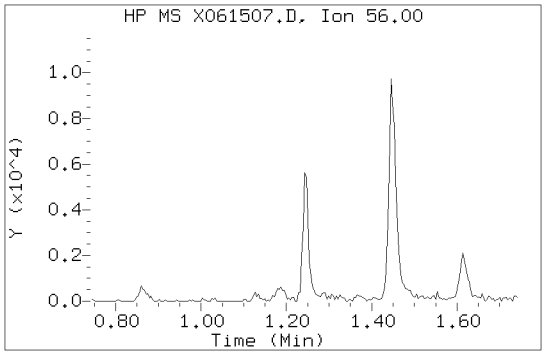

AFTER
MASS
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20-Jun-2023
18:22
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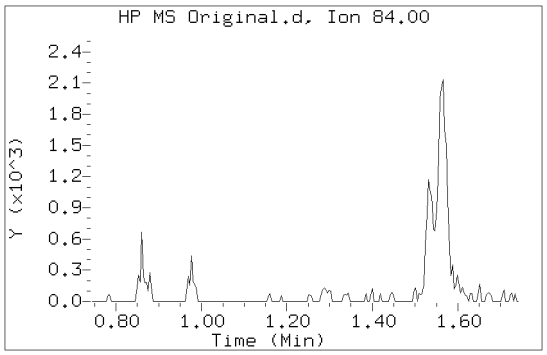

BEFORE
MASS
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20-Jun-2023
18:22
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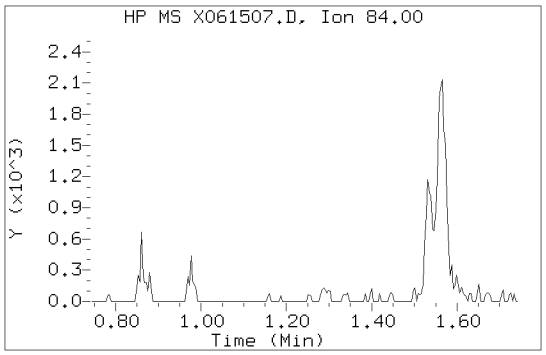

AFTER
MASS
56
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20-Jun-2023
18:22
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BEFORE
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pham



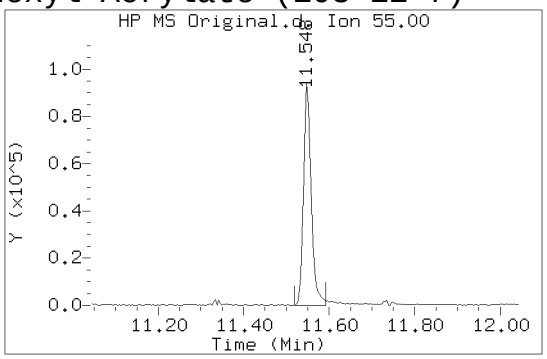
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Inj Date : 15-JUN-2023 13:21
InstruID : voa6.i
LabSampID : VSTD020

## 2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

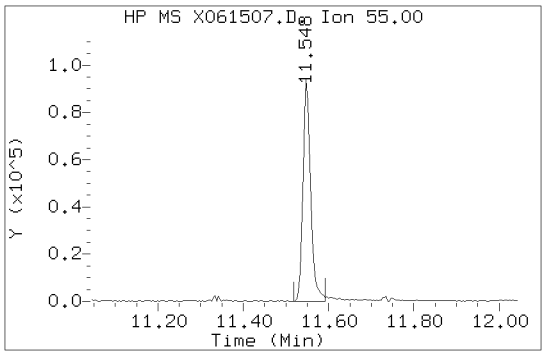
### BEFORE

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HEIGHT
93780
20-Jun-2023
18:22
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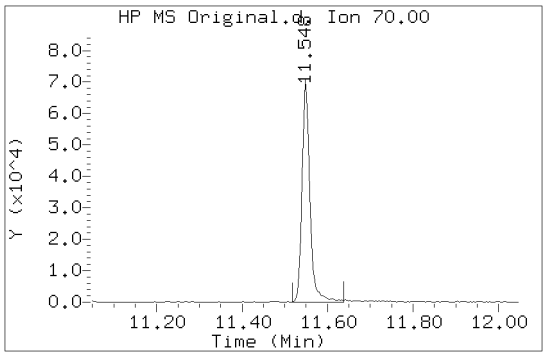

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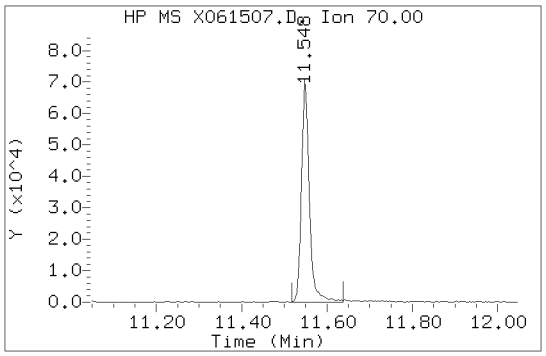

### BEFORE

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20-Jun-2023
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### AFTER

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HEIGHT
70614
20-Jun-2023
18:22
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061508.D  Page 1
Report Date: 20-Jun-2023 18:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061508.D
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Inj Date  : 15-JUN-2023 13:42
Operator  : PC  Inst ID: voa6.i
Smp Info  : VSTD050;VSTD050;1;7;
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 9  Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 00000_8260.sub
Target Version:  4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| 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) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.181 | 4.181 | (1.000) | 492816 | 50.0000 | |
| 2 | Dichlorodifluoromethane | 85 | 0.976 | 0.976 | (0.234) | 197396 | 50.0000 | 46.53 |
| 3 | Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 241131 | 50.0000 | 46.36 |
| 4 | Propionitrile | 54 | 3.653 | 3.653 | (0.874) | 304381 | 500.000 | 510.70 |
| 5 | Vinyl Chloride | 62 | 1.145 | 1.149 | (0.274) | 240339 | 50.0000 | 46.43 |
| 6 | Bromomethane | 94 | 1.344 | 1.344 | (0.321) | 137932 | 50.0000 | 46.42 |
| 7 | Chloroethane | 64 | 1.407 | 1.407 | (0.337) | 149942 | 50.0000 | 47.39 |
| 8 | Trichlorofluoromethane | 101 | 1.565 | 1.565 | (0.374) | 272748 | 50.0000 | 44.34 |
| 9 | Acrolein | 56 | 1.449 | 1.449 | (0.347) | 27543 | 100.000 | 90.06 |
| 10 | Acetone | 43 | 1.977 | 1.973 | (0.473) | 120180 | 100.000 | 93.50 |
| 11 | 1,1-Dichloroethene | 96 | 1.917 | 1.917 | (0.459) | 175031 | 50.0000 | 45.36 |
| 12 | Isobutyl Alcohol | 43 | 4.672 | 4.676 | (1.117) | 634764 | 1000.00 | 987.83 |
| 13 | Acetonitrile | 39 | 2.202 | 2.202 | (0.527) | 239543 | 500.000 | 501.13 |
| 14 | Allyl Chloride | 41 | 2.202 | 2.202 | (0.527) | 536037 | 50.0000 | 49.59 |
| 15 | Iodomethane | 142 | 2.030 | 2.030 | (0.485) | 622671 | 100.000 | 97.37 |
| 16 | Acrylonitrile | 53 | 2.536 | 2.536 | (0.606) | 151533 | 100.000 | 96.86 |
| 17 | Methylene Chloride | 84 | 2.307 | 2.307 | (0.552) | 248535 | 50.0000 | 45.60 |
| 18 | Methyl tert-butyl ether | 73 | 2.536 | 2.536 | (0.606) | 648118 | 50.0000 | 48.12 |
| 19 | Carbon Disulfide | 76 | 2.071 | 2.071 | (0.495) | 1253720 | 100.000 | 91.25 |
| 20 | trans-1,2-Dichloroethene | 96 | 2.532 | 2.532 | (0.606) | 213845 | 50.0000 | 46.31 |
| 21 | Vinyl Acetate | 43 | 2.997 | 2.997 | (0.717) | 1287138 | 100.000 | 104.45 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 22 1,1-Dichloroethane | 63 | 2.922 | 2.922 (0.699) | 390252 | 50.0000 | 46.92 |
| 23 Chloroprene | 53 | 1.775 | 1.775 (0.425) | 73527 | 50.0000 | 44.88(M) |

| | | | QUANT SIG | | | | | AMOUNTS | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | CAL-AMT | ON-COL |
| | | Compounds | MASS | RT | EXP RT | REL RT | RESPONSE | ( ug/l) | ( ug/l) |
| | 24 | 2-Butanone | 43 | 3.574 | 3.578 | (0.855) | 166054 | 100.000 | 102.38 |
| | 25 | Methacrylonitrile | 41 | 3.821 | 3.821 | (0.914) | 202059 | 50.0000 | 49.69(aH) |
| | 26 | 2,2-Dichloropropane | 77 | 3.510 | 3.514 | (0.840) | 313511 | 50.0000 | 47.76 |
| | 27 | cis-1,2-Dichloroethene | 96 | 3.525 | 3.525 | (0.843) | 251495 | 50.0000 | 47.23 |
| | 28 | Chloroform | 83 | 3.904 | 3.904 | (0.934) | 411769 | 50.0000 | 45.99 |
| | 29 | Bromochloromethane | 128 | 3.795 | 3.795 | (0.908) | 132725 | 50.0000 | 46.78 |
| $ | 30 | Dibromofluoromethane | 113 | 4.095 | 4.099 | (0.979) | 209535 | 50.0000 | 47.59 |
| | 31 | 1,1,1-Trichloroethane | 97 | 4.084 | 4.084 | (0.977) | 324614 | 50.0000 | 44.86 |
| | 32 | 1,1-Dichloropropene | 75 | 4.279 | 4.279 | (0.862) | 288880 | 50.0000 | 45.69 |
| | 33 | 1,2-Dichloroethane | 62 | 4.556 | 4.556 | (0.918) | 306752 | 50.0000 | 48.42 |
| | 34 | Carbon Tetrachloride | 117 | 4.264 | 4.264 | (0.859) | 268670 | 50.0000 | 44.19 |
| $ | 35 | 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 238148 | 50.0000 | 50.13 |
| * | 36 | 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 754448 | 50.0000 | |
| | 37 | Benzene | 78 | 4.511 | 4.511 | (0.909) | 918710 | 50.0000 | 47.34 |
| | 38 | Trichloroethene | 130 | 5.205 | 5.205 | (1.048) | 248720 | 50.0000 | 46.48 |
| | 39 | Bromodichloromethane | 83 | 5.726 | 5.722 | (1.153) | 322289 | 50.0000 | 46.94 |
| | 40 | Methyl Methacrylate | 41 | 5.602 | 5.606 | (1.340) | 191236 | 50.0000 | 50.12 |
| | 41 | 2-Chloroethylvinyl ether | 63 | 6.044 | 6.048 | (1.217) | 193001 | 100.000 | 103.89 |
| | 42 | 1,2-Dichloropropane | 63 | 5.433 | 5.437 | (1.094) | 247937 | 50.0000 | 48.67 |
| | 43 | 2-Nitropropane | 43 | 5.966 | 5.966 | (1.427) | 65936 | 50.0000 | 49.64(H) |
| | 44 | Dibromomethane | 93 | 5.553 | 5.550 | (1.119) | 153422 | 50.0000 | 47.97 |
| | 45 | 4-Methyl-2-Pentanone | 43 | 6.322 | 6.322 | (0.824) | 451055 | 100.000 | 99.73 |
| | 46 | cis-1,3-Dichloropropene | 75 | 6.153 | 6.153 | (1.239) | 414700 | 50.0000 | 48.99 |
| * | 47 | Chlorobenzene-d5 | 117 | 7.668 | 7.668 | (1.000) | 700134 | 50.0000 | |
| $ | 48 | Toluene-d8 | 98 | 6.386 | 6.386 | (0.833) | 793009 | 50.0000 | 44.80 |
| | 49 | Ethyl Methacrylate | 69 | 6.708 | 6.708 | (1.351) | 235499 | 50.0000 | 43.54 |
| | 50 | Toluene | 91 | 6.446 | 6.445 | (0.841) | 985523 | 50.0000 | 47.94 |
| | 51 | trans-1,3-Dichloropropene | 75 | 6.678 | 6.678 | (1.345) | 351970 | 50.0000 | 49.70 |
| | 52 | 2-Hexanone | 43 | 7.087 | 7.083 | (0.924) | 307641 | 100.000 | 101.83 |
| | 53 | 1,1,2-Trichloroethane | 83 | 6.835 | 6.835 | (0.891) | 191485 | 50.0000 | 47.81 |
| | 54 | 1,3-Dichloropropane | 76 | 6.978 | 6.978 | (0.910) | 394668 | 50.0000 | 48.74 |
| | 55 | Dibromochloromethane | 129 | 7.173 | 7.173 | (0.935) | 276136 | 50.0000 | 48.65 |
| | 56 | Tetrachloroethene | 164 | 6.925 | 6.925 | (0.903) | 188588 | 50.0000 | 44.61 |
| | 57 | 1,2-Dibromoethane | 107 | 7.259 | 7.259 | (0.947) | 242321 | 50.0000 | 47.34 |
| | 58 | 1-Chlorohexane | 55 | 7.694 | 7.694 | (1.550) | 204135 | 50.0000 | 44.49 |
| | 59 | Chlorobenzene | 112 | 7.690 | 7.690 | (1.003) | 670262 | 50.0000 | 47.65 |
| | 60 | 1,1,1,2-Tetrachloroethane | 131 | 7.773 | 7.773 | (1.014) | 247525 | 50.0000 | 47.19 |
| | 61 | Ethylbenzene | 106 | 7.799 | 7.799 | (1.017) | 337944 | 50.0000 | 46.63 |
| | 62 | m,p-Xylenes | 106 | 7.900 | 7.900 | (1.030) | 865023 | 100.000 | 96.80 |
| | 63 | o-Xylene | 106 | 8.237 | 8.237 | (1.074) | 421695 | 50.0000 | 47.29 |
| | 64 | Styrene | 104 | 8.256 | 8.256 | (1.077) | 726936 | 50.0000 | 49.49 |
| | 66 | Bromoform | 173 | 8.406 | 8.410 | (1.096) | 193324 | 50.0000 | 48.86 |
| | 67 | Isopropylbenzene | 105 | 8.560 | 8.560 | (1.116) | 1020952 | 50.0000 | 46.32 |
| | 68 | 1,1,2,2-Tetrachloroethane | 83 | 8.837 | 8.837 | (0.915) | 322973 | 50.0000 | 45.91 |
| $ | 69 | 4-Bromofluorobenzene | 95 | 8.687 | 8.687 | (1.133) | 332999 | 50.0000 | 48.70 |
| * | 70 | 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.658 | (1.000) | 400046 | 50.0000 | |
| | 71 | 1,2,3-Trichloropropane | 75 | 8.863 | 8.863 | (0.917) | 233477 | 50.0000 | 46.28(M) |
| | 72 | trans-1,4-Dichloro-2-butene | 53 | 8.886 | 8.886 | (1.159) | 85424 | 50.0000 | 50.12 |
| | 73 | n-Propylbenzene | 91 | 8.908 | 8.908 | (0.922) | 1227225 | 50.0000 | 46.61 |
| | 74 | Bromobenzene | 156 | 8.803 | 8.803 | (0.911) | 307004 | 50.0000 | 47.08 |
| | 75 | 1,3,5-Trimethylbenzene | 105 | 9.066 | 9.066 | (0.938) | 897093 | 50.0000 | 46.44 |
| | 76 | 2-Chlorotoluene | 91 | 8.972 | 8.972 | (0.929) | 765612 | 50.0000 | 45.79 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 77 | 4-Chlorotoluene | 91 | 9.070 | 9.070 (0.939) | 883550 | 50.0000 | 47.38 |
| 78 | tert-Butylbenzene | 119 | 9.332 | 9.336 (0.966) | 729912 | 50.0000 | 45.35 |

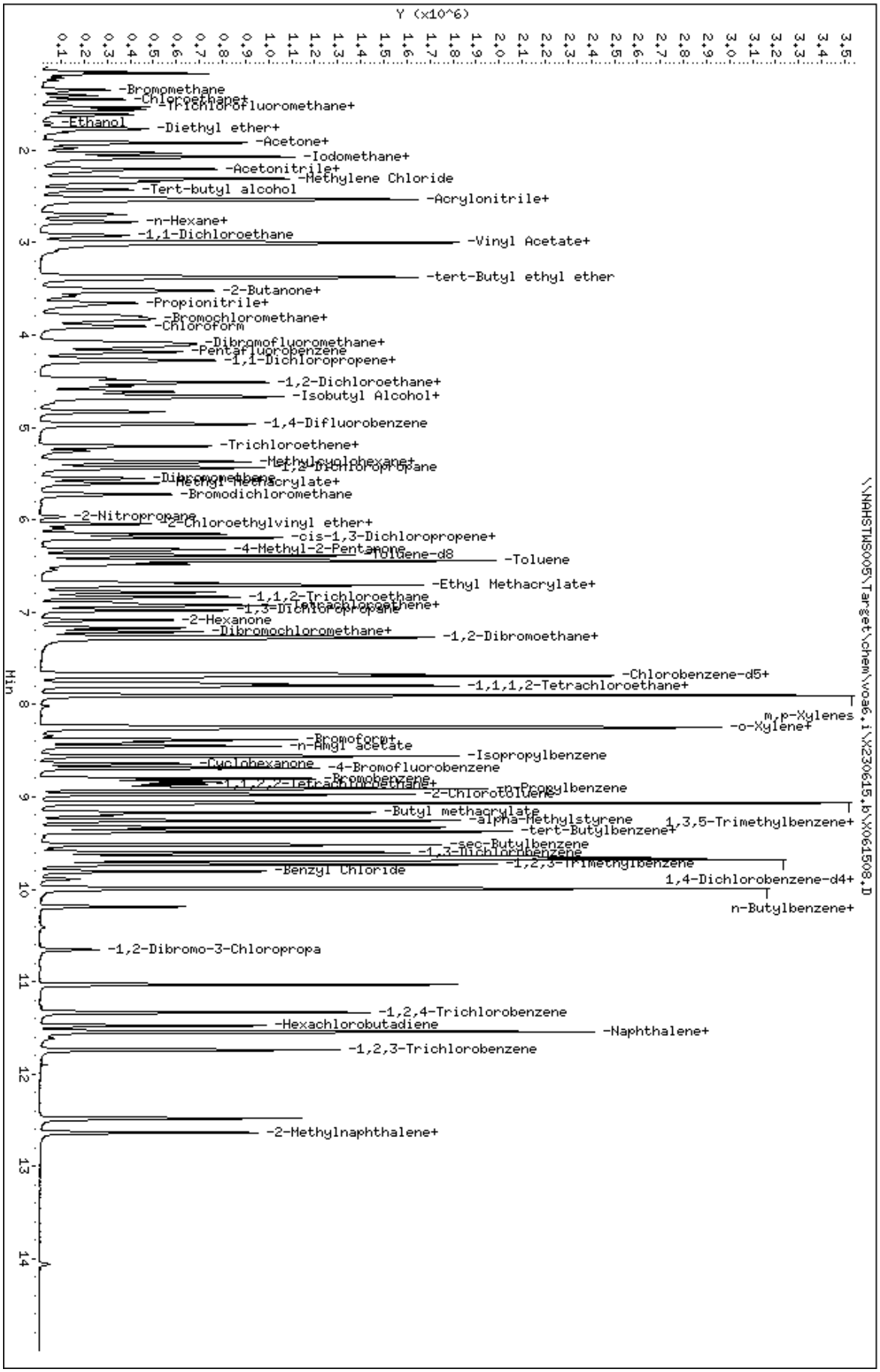
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | |
|---|---|---|---|---|---|---|---|---|---|
| 79 | 1,2,4-Trimethylbenzene | 105 | 9.377 | 9.377 | (0.971) | 919002 | 50.0000 | 47.15 | |
| 81 | sec-Butylbenzene | 105 | 9.519 | 9.519 | (0.985) | 1013804 | 50.0000 | 44.66 | |
| 82 | p-Isopropyltoluene | 119 | 9.647 | 9.647 | (0.998) | 914630 | 50.0000 | 46.02 | |
| 83 | 1,3-Dichlorobenzene | 146 | 9.602 | 9.602 | (0.994) | 550233 | 50.0000 | 47.39 | |
| 84 | 1,4-Dichlorobenzene | 146 | 9.681 | 9.681 | (1.002) | 582612 | 50.0000 | 46.88 | |
| 86 | Benzyl Chloride | 91 | 9.804 | 9.808 | (1.279) | 583705 | 50.0000 | 50.47 | |
| 87 | n-Butylbenzene | 91 | 9.992 | 9.992 | (1.034) | 814070 | 50.0000 | 48.10 | |
| 88 | 1,2-Dichlorobenzene | 146 | 9.988 | 9.992 | (1.034) | 553758 | 50.0000 | 48.07 | |
| 89 | 1,2-Dibromo-3-Chloropropane | 155 | 10.655 | 10.655 | (1.103) | 57289 | 50.0000 | 49.90 | |
| 90 | 1,2,4-Trichlorobenzene | 180 | 11.334 | 11.334 | (1.173) | 403454 | 50.0000 | 50.34 | |
| 91 | Hexachlorobutadiene | 225 | 11.476 | 11.476 | (1.188) | 160721 | 50.0000 | 44.68 | |
| 92 | Naphthalene | 128 | 11.540 | 11.540 | (1.194) | 921832 | 50.0000 | 51.10 | |
| 93 | 1,2,3-Trichlorobenzene | 180 | 11.739 | 11.739 | (1.215) | 365678 | 50.0000 | 49.59 | |
| 146 | Methyl acetate | 43 | 2.232 | 2.232 | (0.534) | 148083 | 50.0000 | 50.76 | |
| 138 | Freon TF | 101 | 1.917 | 1.917 | (0.459) | 158688 | 50.0000 | 46.35 | |
| 141 | Cyclohexane | 56 | 4.118 | 4.121 | (0.985) | 274803 | 50.0000 | 43.74 | |
| 142 | Tetrahydrofuran | 42 | 3.844 | 3.844 | (0.919) | 72495 | 100.000 | 100.93 | |
| 147 | Methylcyclohexane | 55 | 5.377 | 5.381 | (1.083) | 533003 | 50.0000 | 50.54 | |
| 135 | 1,4-Dioxane | 88 | 5.598 | 5.598 | (1.339) | 56523 | 1000.00 | 946.41 | |
| 132 | n-Butanol | 56 | 5.253 | 5.253 | (1.256) | 116028 | 1000.00 | 907.61 | |
| 131 | Methyl Acrylate | 55 | 3.690 | 3.690 | (0.883) | 211890 | 50.0000 | 53.08 | |
| 133 | Ethyl Acrylate | 55 | 5.377 | 5.381 | (1.286) | 533003 | 50.0000 | 48.09 | |
| 136 | n-Hexane | 57 | 2.776 | 2.776 | (0.664) | 208750 | 50.0000 | 46.44 | |
| 139 | Diethyl ether | 59 | 1.760 | 1.760 | (0.421) | 148690 | 50.0000 | 48.15 | |
| 148 | Tert-butyl alcohol | 59 | 2.431 | 2.431 | (0.581) | 465312 | 1000.00 | 919.46 | |
| 149 | Isopropyl alcohol | 45 | 2.093 | 2.093 | (0.501) | 254962 | 1000.00 | 912.73 | |
| 156 | Diisopropyl ether | 45 | 3.001 | 3.000 | (0.718) | 713579 | 50.0000 | 49.09 | |
| 160 | 2-Methylnaphthalene | 142 | 12.635 | 12.634 | (1.308) | 394789 | 50.0000 | 50.00 | |
| 166 | 1,2,3-Trimethylbenzene | 105 | 9.729 | 9.729 | (1.007) | 940766 | 50.0000 | 49.47 | |
| 167 | Ethanol | 45 | 1.704 | 1.707 | (0.407) | 42212 | 1000.00 | 896.16 | |
| 172 | tert-Butyl formate | 59 | 4.616 | 4.612 | (1.104) | 374840 | 100.000 | 92.35 | |
| 173 | 3,3-Dimethyl-1-butanol | 57 | 7.285 | 7.285 | (0.950) | 494306 | 1000.00 | 863.21 | |
| 174 | tert-Amyl methyl ether | 73 | 4.665 | 4.665 | (1.116) | 751714 | 50.0000 | 47.55 | |
| 175 | tert-Butyl ethyl ether | 59 | 3.375 | 3.379 | (0.807) | 719611 | 50.0000 | 47.83 | |
| 176 | tert-Amyl alcohol | 59 | 4.616 | 4.612 | (1.104) | 374840 | 1000.00 | 905.51 | |
| 151 | 4-Methyl-2-pentanol | 45 | 6.708 | 6.708 | (1.351) | 1032494 | 1000.00 | 860.61 | |
| 180 | 1-Methylnaphthalene | 142 | 12.635 | 12.634 | (1.308) | 394789 | 50.0000 | (a) | |
| 140 | 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.279) | 188849 | 50.0000 | 46.24 | |
| 152 | Amyl alcohol | 42 | 6.899 | 6.899 | (0.900) | 133001 | 1000.00 | 1019.57 | |
| 158 | Dichlorofluoromethane | 67 | 1.535 | 1.535 | (0.367) | 334814 | 50.0000 | 47.27 | |
| 159 | Propylene oxide | 43 | 1.805 | 1.805 | (0.432) | 36073 | 100.000 | 82.56 | |
| 161 | 3-Methyl-1-butanol | 55 | 6.899 | 6.899 | (0.900) | 125842 | 1000.00 | 936.08 | |
| 162 | Butyl acrylate | 55 | 8.249 | 8.249 | (1.076) | 512904 | 50.0000 | 49.57 | |
| 163 | Butyl methacrylate | 41 | 9.167 | 9.167 | (0.949) | 352536 | 50.0000 | 52.39 | |
| 164 | Dicyclopentadiene | 66 | 9.681 | 9.681 | (1.002) | 1059682 | 50.0000 | 47.36 | |
| 182 | Epichlorohydrin | 57 | 6.093 | 6.093 | (1.227) | 80467 | 200.000 | 178.30 | |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 465340 | 100.000 | (a) | |
| 145 | alpha-Methylstyrene | 118 | 9.257 | 9.257 | (0.958) | 459940 | 50.0000 | 48.60 | |
| 130 | Ethyl Acetate | 43 | 3.657 | 3.657 | (0.875) | 241252 | 50.0000 | 48.02 | |
| 134 | Cyclohexanone | 55 | 8.638 | 8.642 | (0.894) | 225144 | 1000.00 | 995.53 | |
| 185 | Isoprene | 39 | 1.775 | 1.775 | (0.425) | 54933 | 50.0000 | 40.95 | |
| 188 | Isopropyl acetate | 43 | 4.672 | 4.676 | (0.941) | 638971 | 50.0000 | 49.04 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 187 n-Amyl acetate | 43 | 8.451 | 8.451 (1.102) | 446148 | 50.0000 | 47.58 |
| 189 n-Butyl acetate | 43 | 7.210 | 7.210 (0.940) | 384979 | 50.0000 | 51.34(H) |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| 150 Allyl alcohol | 57 | 2.776 | 2.772 | (0.664) | 208750 | 1000.00 | 928.85 |
| 194 Acetaldehyde | 44 | 1.216 | 1.216 | (0.291) | 50952 | 200.000 | 196.39(M) |
| 195 Methyl Amyl Ketone | 43 | 8.380 | 8.380 | (1.093) | 518535 | 50.0000 | 50.29 |
| 200 Dimethyl Disulfide | 94 | 6.194 | 6.194 | (0.808) | 533595 | 50.0000 | 51.39 |
| 202 Isobutylene | 41 | 1.242 | 1.242 | (0.297) | 22667 | 50.0000 | 48.10(M) |
| 205 2-Ethylhexyl Acrylate | 55 | 11.544 | 11.544 | (1.195) | 360378 | 50.0000 | 48.72(M) |

## QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.




Data File: \\NAHSTMS005\Target\chem\voa6.i\X230615.b\X061508.D
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Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;7;
Purge Volume: 5.0
Column phase: DB624

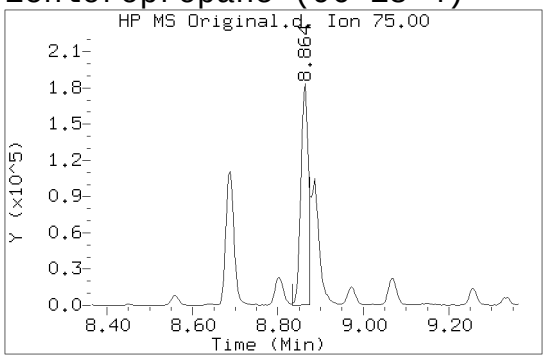
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 15-JUN-2023 13:42
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LabSampID : VSTD050

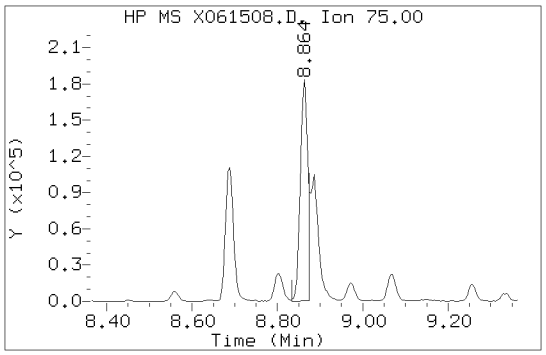
## 1,2,3-Trichloropropane (96-18-4)

Reason Code:

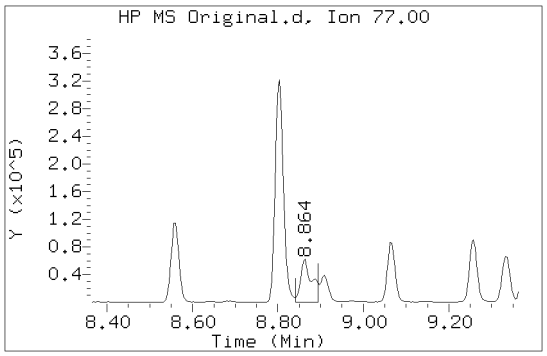
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MASS
75
AREA
233477
HEIGHT
183221
20-Jun-2023
18:22
linh
pham



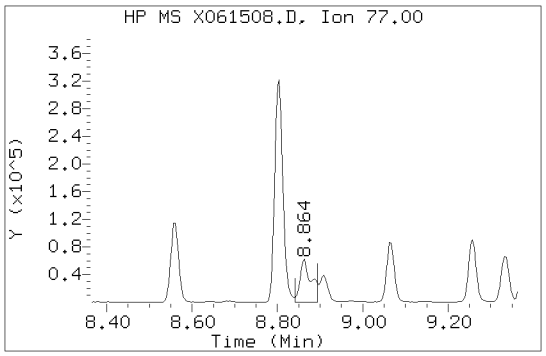

AFTER
MASS
75
AREA
233477
HEIGHT
183221
20-Jun-2023
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BEFORE
MASS
77
AREA
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HEIGHT
62146
20-Jun-2023
18:22
linh
pham



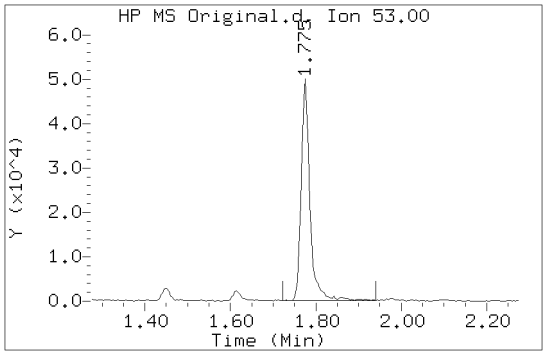

AFTER
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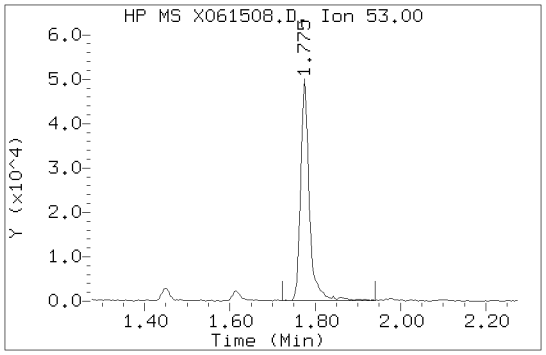

## Chloroprene (126-99-8)

Reason Code:

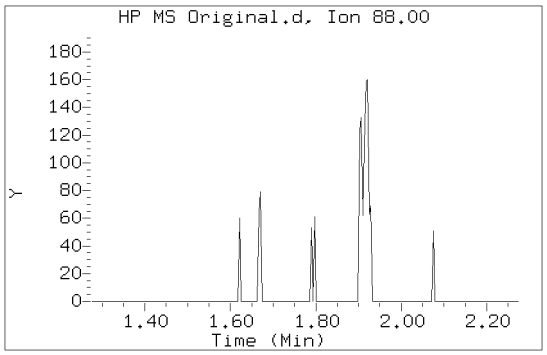
BEFORE
MASS
53
AREA
73527
HEIGHT
49979
20-Jun-2023
18:22
linh
pham



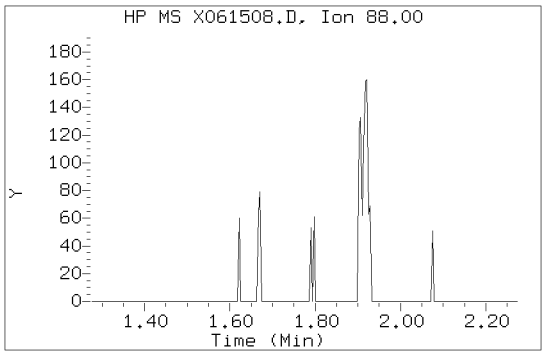

AFTER
MASS
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AREA
73527
HEIGHT
49979
20-Jun-2023
18:22
linh
pham




BEFORE
MASS
88
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham




AFTER
MASS
88
AREA
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HEIGHT
0
20-Jun-2023
18:22
linh
pham



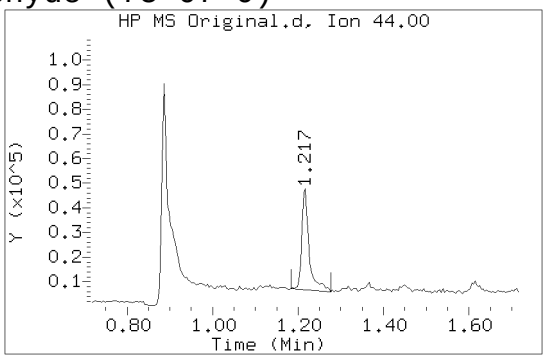
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Inj Date : 15-JUN-2023 13:42
InstruID : voa6.i
LabSampID : VSTD050

## Acetaldehyde (75-07-0)

Reason Code:

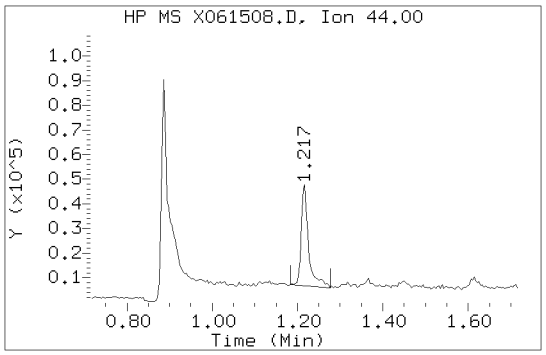
**BEFORE**

MASS
44
AREA
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HEIGHT
41173
20-Jun-2023
18:22
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pham



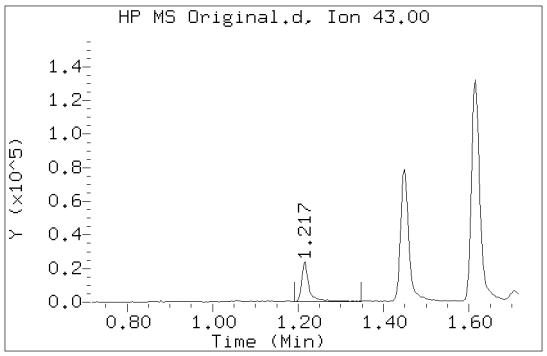

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18:22
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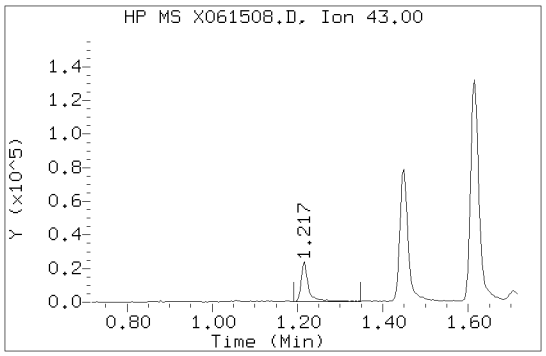

**BEFORE**

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pham



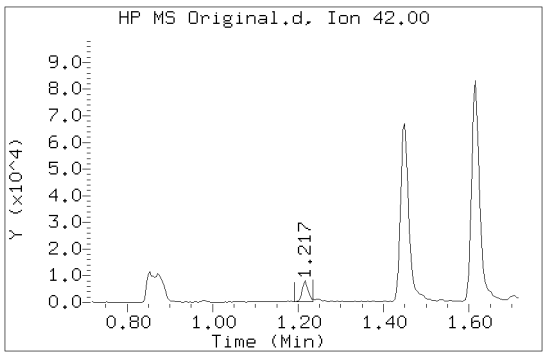

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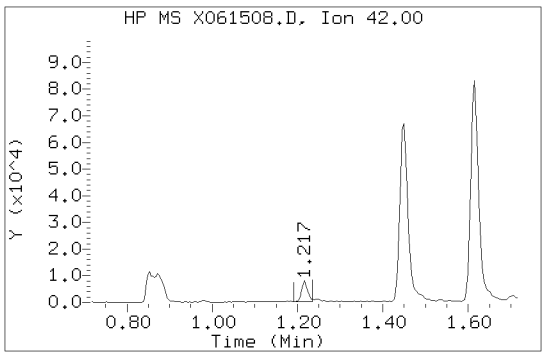

**BEFORE**

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7943
20-Jun-2023
18:22
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pham




**AFTER**

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AREA
7889
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7943
20-Jun-2023
18:22
linh
pham

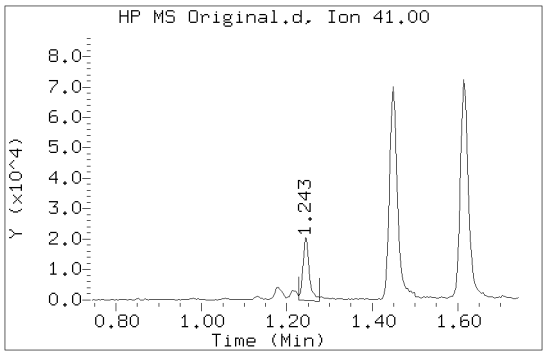



## Isobutylene (115-11-7)

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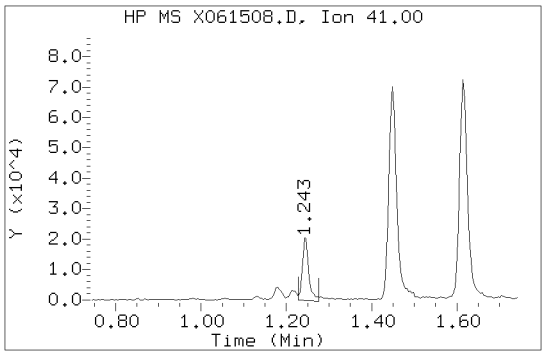
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20-Jun-2023
18:22
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pham




**AFTER**

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22667
HEIGHT
20608
20-Jun-2023
18:22
linh
pham



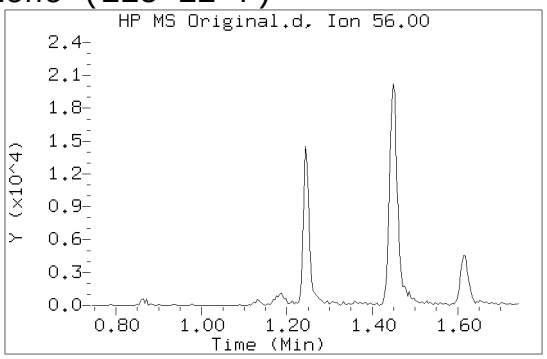
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Inj Date : 15-JUN-2023 13:42
InstruID : voa6.i
LabSampID : VSTD050

## Isobutylene (115-11-7)

Reason Code:

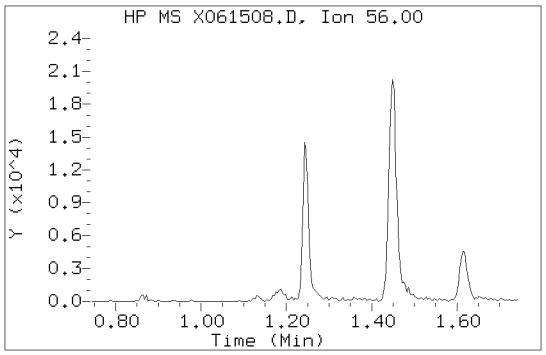
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HEIGHT
0
20-Jun-2023
18:22
linh
pham



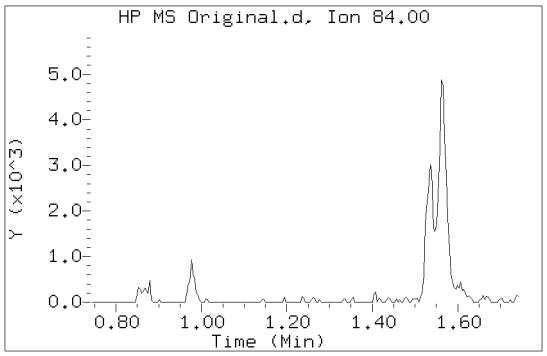

AFTER

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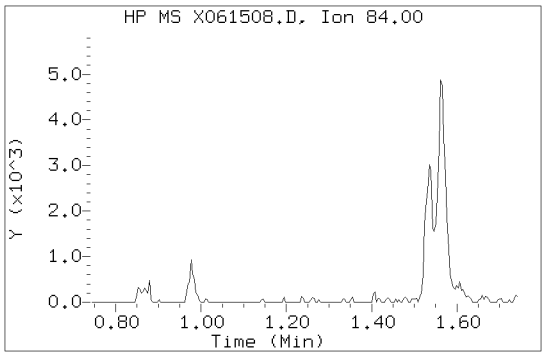

BEFORE

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0
20-Jun-2023
18:22
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pham




AFTER

MASS
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AREA
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HEIGHT
0
20-Jun-2023
18:22
linh
pham

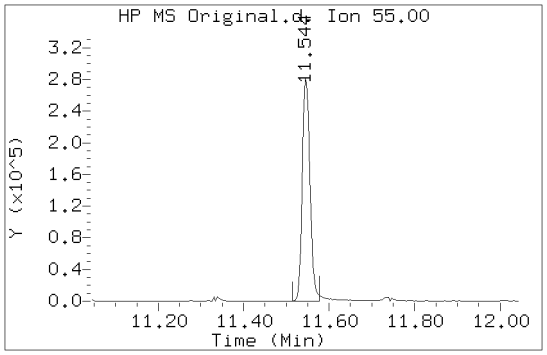



## 2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

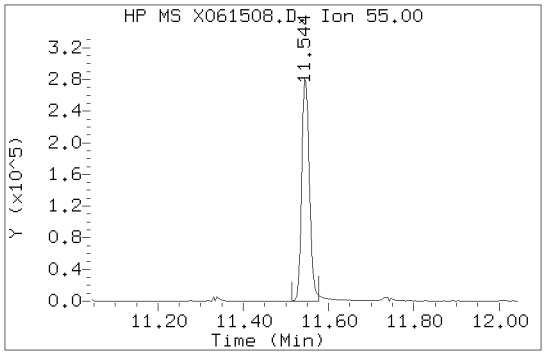
BEFORE

MASS
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AREA
360378
HEIGHT
280454
20-Jun-2023
18:22
linh
pham



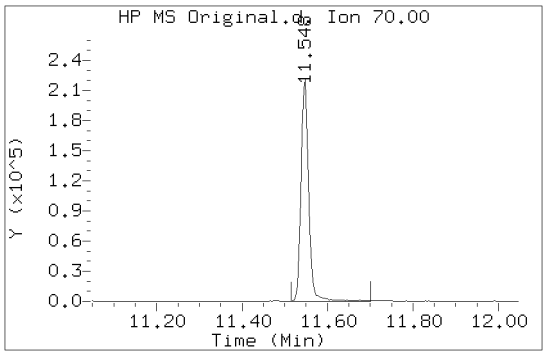

AFTER

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20-Jun-2023
18:22
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pham



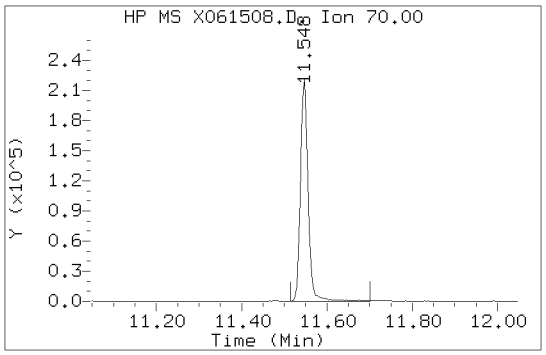

BEFORE

MASS
70
AREA
285048
HEIGHT
220660
20-Jun-2023
18:22
linh
pham




AFTER

MASS
70
AREA
285048
HEIGHT
220660
20-Jun-2023
18:22
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061509.D  Page 1
Report Date: 20-Jun-2023 18:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061509.D
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Inj Date  : 15-JUN-2023 14:03
Operator  : PC  Inst ID: voa6.i
Smp Info  : VSTD100;VSTD100;1;8;
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 14:03  Cal File: X061509.D
Als bottle: 10  Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 00000_8260.sub
Target Version:  4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.181 | 4.181 | (1.000) | 495501 | 50.0000 | |
| 2 | Dichlorodifluoromethane | 85 | 0.976 | 0.976 | (0.234) | 431897 | 100.000 | 100.87 |
| 3 | Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 524590 | 100.000 | 99.12 |
| 4 | Propionitrile | 54 | 3.649 | 3.653 | (0.873) | 599655 | 1000.00 | 1000.67 |
| 5 | Vinyl Chloride | 62 | 1.149 | 1.149 | (0.275) | 501013 | 100.000 | 96.27 |
| 6 | Bromomethane | 94 | 1.344 | 1.344 | (0.321) | 288326 | 100.000 | 96.52 |
| 7 | Chloroethane | 64 | 1.407 | 1.407 | (0.337) | 306060 | 100.000 | 96.21 |
| 8 | Trichlorofluoromethane | 101 | 1.561 | 1.565 | (0.373) | 598877 | 100.000 | 96.84 |
| 9 | Acrolein | 56 | 1.449 | 1.449 | (0.347) | 62591 | 200.000 | 203.57 |
| 10 | Acetone | 43 | 1.973 | 1.973 | (0.472) | 254517 | 200.000 | 197.25 |
| 11 | 1,1-Dichloroethene | 96 | 1.917 | 1.917 | (0.459) | 364522 | 100.000 | 93.96 |
| 12 | Isobutyl Alcohol | 43 | 4.672 | 4.676 | (1.117) | 1268000 | 2000.00 | 1962.59 |
| 13 | Acetonitrile | 39 | 2.198 | 2.202 | (0.526) | 484091 | 1000.00 | 1007.25 |
| 14 | Allyl Chloride | 41 | 2.198 | 2.202 | (0.526) | 1079064 | 100.000 | 99.30 |
| 15 | Iodomethane | 142 | 2.030 | 2.030 | (0.485) | 1361652 | 200.000 | 206.18 |
| 16 | Acrylonitrile | 53 | 2.536 | 2.536 | (0.606) | 316304 | 200.000 | 201.10 |
| 17 | Methylene Chloride | 84 | 2.303 | 2.307 | (0.551) | 490960 | 100.000 | 89.59 |
| 18 | Methyl tert-butyl ether | 73 | 2.536 | 2.536 | (0.606) | 1281775 | 100.000 | 94.66 |
| 19 | Carbon Disulfide | 76 | 2.071 | 2.071 | (0.495) | 2629763 | 200.000 | 190.38 |
| 20 | trans-1,2-Dichloroethene | 96 | 2.532 | 2.532 | (0.606) | 439343 | 100.000 | 94.64 |
| 21 | Vinyl Acetate | 43 | 2.997 | 2.997 | (0.717) | 2457055 | 200.000 | 198.31 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 22 1,1-Dichloroethane | 63 | 2.922 | 2.922 (0.699) | 801750 | 100.000 | 95.87 |
| 23 Chloroprene | 53 | 1.771 | 1.775 (0.424) | 161195 | 100.000 | 97.87(M) |

| | | | QUANT SIG | | | | | AMOUNTS | |
|---|---|---|---|---|---|---|---|---|---|
| | | Compounds | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT ( ug/l) | ON-COL ( ug/l) |
| | 24 | 2-Butanone | 43 | 3.574 | 3.578 | (0.855) | 351579 | 200.000 | 215.60 |
| | 25 | Methacrylonitrile | 41 | 3.818 | 3.821 | (0.913) | 394582 | 100.000 | 96.51(aH) |
| | 26 | 2,2-Dichloropropane | 77 | 3.507 | 3.514 | (0.839) | 661036 | 100.000 | 100.17 |
| | 27 | cis-1,2-Dichloroethene | 96 | 3.525 | 3.525 | (0.843) | 508020 | 100.000 | 94.90 |
| | 28 | Chloroform | 83 | 3.904 | 3.904 | (0.934) | 818333 | 100.000 | 90.92 |
| | 29 | Bromochloromethane | 128 | 3.792 | 3.795 | (0.907) | 265719 | 100.000 | 93.15 |
| $ | 30 | Dibromofluoromethane | 113 | 4.095 | 4.099 | (0.979) | 449558 | 100.000 | 101.94 |
| | 31 | 1,1,1-Trichloroethane | 97 | 4.080 | 4.084 | (0.976) | 691238 | 100.000 | 95.02 |
| | 32 | 1,1-Dichloropropene | 75 | 4.279 | 4.279 | (0.862) | 621302 | 100.000 | 97.62 |
| | 33 | 1,2-Dichloroethane | 62 | 4.552 | 4.556 | (0.917) | 619081 | 100.000 | 97.07 |
| | 34 | Carbon Tetrachloride | 117 | 4.264 | 4.264 | (0.859) | 590757 | 100.000 | 96.51 |
| $ | 35 | 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 480296 | 100.000 | 101.41 |
| * | 36 | 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 759537 | 50.0000 | |
| | 37 | Benzene | 78 | 4.511 | 4.511 | (0.909) | 1903903 | 100.000 | 97.44 |
| | 38 | Trichloroethene | 130 | 5.205 | 5.205 | (1.048) | 527345 | 100.000 | 97.89 |
| | 39 | Bromodichloromethane | 83 | 5.722 | 5.722 | (1.153) | 657597 | 100.000 | 95.15 |
| | 40 | Methyl Methacrylate | 41 | 5.602 | 5.606 | (1.340) | 386280 | 100.000 | 100.70 |
| | 41 | 2-Chloroethylvinyl ether | 63 | 6.044 | 6.048 | (1.217) | 379788 | 200.000 | 203.08 |
| | 42 | 1,2-Dichloropropane | 63 | 5.433 | 5.437 | (1.094) | 505068 | 100.000 | 98.48 |
| | 43 | 2-Nitropropane | 43 | 5.966 | 5.966 | (1.427) | 130452 | 100.000 | 97.68(H) |
| | 44 | Dibromomethane | 93 | 5.550 | 5.550 | (1.118) | 306749 | 100.000 | 95.28 |
| | 45 | 4-Methyl-2-Pentanone | 43 | 6.322 | 6.322 | (0.824) | 894293 | 200.000 | 193.09 |
| | 46 | cis-1,3-Dichloropropene | 75 | 6.153 | 6.153 | (1.239) | 851192 | 100.000 | 99.89 |
| * | 47 | Chlorobenzene-d5 | 117 | 7.668 | 7.668 | (1.000) | 716953 | 50.0000 | |
| $ | 48 | Toluene-d8 | 98 | 6.386 | 6.386 | (0.833) | 1762374 | 100.000 | 97.22 |
| | 49 | Ethyl Methacrylate | 69 | 6.708 | 6.708 | (1.351) | 479521 | 100.000 | 88.08 |
| | 50 | Toluene | 91 | 6.446 | 6.445 | (0.841) | 2049854 | 100.000 | 97.39 |
| | 51 | trans-1,3-Dichloropropene | 75 | 6.678 | 6.678 | (1.345) | 708794 | 100.000 | 99.41 |
| | 52 | 2-Hexanone | 43 | 7.083 | 7.083 | (0.924) | 616657 | 200.000 | 199.33 |
| | 53 | 1,1,2-Trichloroethane | 83 | 6.835 | 6.835 | (0.891) | 386891 | 100.000 | 94.35 |
| | 54 | 1,3-Dichloropropane | 76 | 6.978 | 6.978 | (0.910) | 798132 | 100.000 | 96.26 |
| | 55 | Dibromochloromethane | 129 | 7.173 | 7.173 | (0.935) | 568303 | 100.000 | 97.79 |
| | 56 | Tetrachloroethene | 164 | 6.925 | 6.925 | (0.903) | 417138 | 100.000 | 96.37 |
| | 57 | 1,2-Dibromoethane | 107 | 7.259 | 7.259 | (0.947) | 492910 | 100.000 | 94.04 |
| | 58 | 1-Chlorohexane | 55 | 7.694 | 7.694 | (1.550) | 447382 | 100.000 | 96.85 |
| | 59 | Chlorobenzene | 112 | 7.690 | 7.690 | (1.003) | 1379283 | 100.000 | 95.77 |
| | 60 | 1,1,1,2-Tetrachloroethane | 131 | 7.773 | 7.773 | (1.014) | 518754 | 100.000 | 96.59 |
| | 61 | Ethylbenzene | 106 | 7.795 | 7.799 | (1.017) | 716254 | 100.000 | 96.52 |
| | 62 | m,p-Xylenes | 106 | 7.900 | 7.900 | (1.030) | 1808556 | 200.000 | 197.64 |
| | 63 | o-Xylene | 106 | 8.237 | 8.237 | (1.074) | 881676 | 100.000 | 96.56 |
| | 64 | Styrene | 104 | 8.256 | 8.256 | (1.077) | 1495586 | 100.000 | 99.44 |
| | 66 | Bromoform | 173 | 8.406 | 8.410 | (1.096) | 398754 | 100.000 | 98.42 |
| | 67 | Isopropylbenzene | 105 | 8.560 | 8.560 | (1.116) | 2193383 | 100.000 | 97.18 |
| | 68 | 1,1,2,2-Tetrachloroethane | 83 | 8.837 | 8.837 | (0.915) | 652900 | 100.000 | 89.45 |
| $ | 69 | 4-Bromofluorobenzene | 95 | 8.687 | 8.687 | (1.133) | 703849 | 100.000 | 101.09 |
| * | 70 | 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.658 | (1.000) | 415088 | 50.0000 | |
| | 71 | 1,2,3-Trichloropropane | 75 | 8.860 | 8.863 | (0.917) | 479418 | 100.000 | 91.60 |
| | 72 | trans-1,4-Dichloro-2-butene | 53 | 8.886 | 8.886 | (1.159) | 178104 | 100.000 | 102.06 |
| | 73 | n-Propylbenzene | 91 | 8.908 | 8.908 | (0.922) | 2636189 | 100.000 | 96.51 |
| | 74 | Bromobenzene | 156 | 8.803 | 8.803 | (0.911) | 639671 | 100.000 | 94.55 |
| | 75 | 1,3,5-Trimethylbenzene | 105 | 9.066 | 9.066 | (0.938) | 1937766 | 100.000 | 96.68 |
| | 76 | 2-Chlorotoluene | 91 | 8.972 | 8.972 | (0.929) | 1592392 | 100.000 | 91.80 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 77 | 4-Chlorotoluene | 91 | 9.066 | 9.070 (0.938) | 1851947 | 100.000 | 95.71 |
| 78 | tert-Butylbenzene | 119 | 9.332 | 9.336 (0.966) | 1602812 | 100.000 | 95.98 |

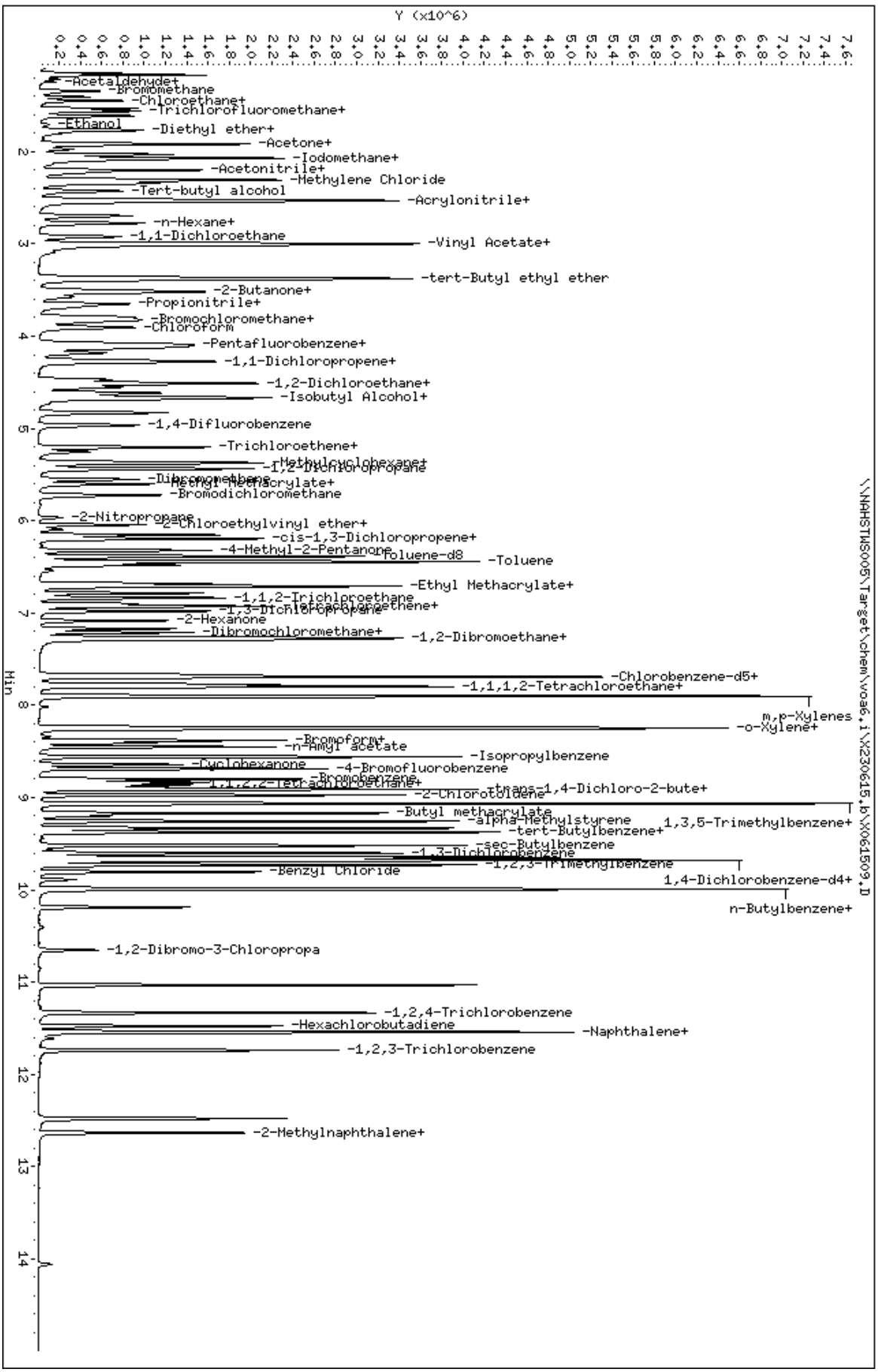
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 79 | 1,2,4-Trimethylbenzene | 105 | 9.377 | 9.377 | (0.971) | 1952643 | 100.000 | 96.56 |
| 81 | sec-Butylbenzene | 105 | 9.519 | 9.519 | (0.985) | 2290981 | 100.000 | 97.28 |
| 82 | p-Isopropyltoluene | 119 | 9.647 | 9.647 | (0.998) | 2068710 | 100.000 | 100.33 |
| 83 | 1,3-Dichlorobenzene | 146 | 9.602 | 9.602 | (0.994) | 1179035 | 100.000 | 97.87 |
| 84 | 1,4-Dichlorobenzene | 146 | 9.681 | 9.681 | (1.002) | 1231486 | 100.000 | 95.50 |
| 86 | Benzyl Chloride | 91 | 9.804 | 9.808 | (1.279) | 1261181 | 100.000 | 106.49 |
| 87 | n-Butylbenzene | 91 | 9.992 | 9.992 | (1.034) | 1840344 | 100.000 | 104.79 |
| 88 | 1,2-Dichlorobenzene | 146 | 9.988 | 9.992 | (1.034) | 1168783 | 100.000 | 97.78 |
| 89 | 1,2-Dibromo-3-Chloropropane | 155 | 10.652 | 10.655 | (1.102) | 117282 | 100.000 | 98.20 |
| 90 | 1,2,4-Trichlorobenzene | 180 | 11.334 | 11.334 | (1.173) | 872938 | 100.000 | 104.98 |
| 91 | Hexachlorobutadiene | 225 | 11.476 | 11.476 | (1.188) | 384079 | 100.000 | 102.91 |
| 92 | Naphthalene | 128 | 11.536 | 11.540 | (1.194) | 1926226 | 100.000 | 102.91 |
| 93 | 1,2,3-Trichlorobenzene | 180 | 11.739 | 11.739 | (1.215) | 783021 | 100.000 | 102.34 |
| 146 | Methyl acetate | 43 | 2.232 | 2.232 | (0.534) | 289526 | 100.000 | 98.71 |
| 138 | Freon TF | 101 | 1.917 | 1.917 | (0.459) | 355059 | 100.000 | 100.76 |
| 141 | Cyclohexane | 56 | 4.121 | 4.121 | (0.986) | 620885 | 100.000 | 98.29 |
| 142 | Tetrahydrofuran | 42 | 3.840 | 3.844 | (0.918) | 142469 | 200.000 | 197.28 |
| 147 | Methylcyclohexane | 55 | 5.377 | 5.381 | (1.083) | 1125305 | 100.000 | 106.00(A) |
| 135 | 1,4-Dioxane | 88 | 5.598 | 5.598 | (1.339) | 120015 | 2000.00 | 1998.62 |
| 132 | n-Butanol | 56 | 5.250 | 5.253 | (1.255) | 246332 | 2000.00 | 1844.09 |
| 131 | Methyl Acrylate | 55 | 3.687 | 3.690 | (0.882) | 416983 | 100.000 | 103.90(M) |
| 133 | Ethyl Acrylate | 55 | 5.377 | 5.381 | (1.286) | 1125305 | 100.000 | 98.39 |
| 136 | n-Hexane | 57 | 2.772 | 2.776 | (0.663) | 496122 | 100.000 | 102.05 |
| 139 | Diethyl ether | 59 | 1.760 | 1.760 | (0.421) | 299105 | 100.000 | 96.35 |
| 148 | Tert-butyl alcohol | 59 | 2.427 | 2.431 | (0.580) | 915279 | 2000.00 | 1798.80 |
| 149 | Isopropyl alcohol | 45 | 2.097 | 2.093 | (0.502) | 521733 | 2000.00 | 1857.62 |
| 156 | Diisopropyl ether | 45 | 3.001 | 3.000 | (0.718) | 1426018 | 100.000 | 97.58 |
| 160 | 2-Methylnaphthalene | 142 | 12.635 | 12.634 | (1.308) | 820577 | 100.000 | 100.15 |
| 166 | 1,2,3-Trimethylbenzene | 105 | 9.729 | 9.729 | (1.007) | 1981777 | 100.000 | 100.44 |
| 167 | Ethanol | 45 | 1.707 | 1.707 | (0.408) | 84145 | 2000.00 | 1776.72 |
| 172 | tert-Butyl formate | 59 | 4.616 | 4.612 | (1.104) | 756526 | 200.000 | 185.39 |
| 173 | 3,3-Dimethyl-1-butanol | 57 | 7.285 | 7.285 | (0.950) | 1023974 | 2000.00 | 1746.23 |
| 174 | tert-Amyl methyl ether | 73 | 4.665 | 4.665 | (1.116) | 1510011 | 100.000 | 95.00 |
| 175 | tert-Butyl ethyl ether | 59 | 3.375 | 3.379 | (0.807) | 1438799 | 100.000 | 95.12 |
| 176 | tert-Amyl alcohol | 59 | 4.616 | 4.612 | (1.104) | 756526 | 2000.00 | 1817.65 |
| 151 | 4-Methyl-2-pentanol | 45 | 6.708 | 6.708 | (1.351) | 2081892 | 2000.00 | 1723.68 |
| 180 | 1-Methylnaphthalene | 142 | 12.635 | 12.634 | (1.308) | 820577 | 100.000 | (a) |
| 140 | 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.279) | 405380 | 100.000 | 98.72 |
| 152 | Amyl alcohol | 42 | 6.899 | 6.899 | (0.900) | 278205 | 2000.00 | 2082.66 |
| 158 | Dichlorofluoromethane | 67 | 1.535 | 1.535 | (0.367) | 693033 | 100.000 | 97.31 |
| 159 | Propylene oxide | 43 | 1.808 | 1.805 | (0.433) | 69625 | 200.000 | 158.49 |
| 161 | 3-Methyl-1-butanol | 55 | 6.899 | 6.899 | (0.900) | 266062 | 2000.00 | 1894.99 |
| 162 | Butyl acrylate | 55 | 8.249 | 8.249 | (1.076) | 1042036 | 100.000 | 97.81 |
| 163 | Butyl methacrylate | 41 | 9.167 | 9.167 | (0.949) | 680469 | 100.000 | 97.46 |
| 164 | Dicyclopentadiene | 66 | 9.681 | 9.681 | (1.002) | 2180940 | 100.000 | 93.94 |
| 182 | Epichlorohydrin | 57 | 6.093 | 6.093 | (1.227) | 164288 | 400.000 | 361.60 |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 947363 | 200.000 | (a) |
| 145 | alpha-Methylstyrene | 118 | 9.257 | 9.257 | (0.958) | 980440 | 100.000 | 99.84 |
| 130 | Ethyl Acetate | 43 | 3.653 | 3.657 | (0.874) | 454946 | 100.000 | 90.07 |
| 134 | Cyclohexanone | 55 | 8.642 | 8.642 | (0.894) | 470281 | 2000.00 | 2017.28 |
| 185 | Isoprene | 39 | 1.771 | 1.775 | (0.424) | 117560 | 100.000 | 87.18 |
| 188 | Isopropyl acetate | 43 | 4.672 | 4.676 | (0.941) | 1268530 | 100.000 | 96.70 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 187 n-Amyl acetate | 43 | 8.451 | 8.451 (1.102) | 916897 | 100.000 | 95.49 |
| 189 n-Butyl acetate | 43 | 7.210 | 7.210 (0.940) | 766562 | 100.000 | 99.82(H) |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| 150 Allyl alcohol | 57 | 2.772 | 2.772 | (0.663) | 496122 | 2000.00 | 2041.64 |
| 194 Acetaldehyde | 44 | 1.216 | 1.216 | (0.291) | 103450 | 400.000 | 400.10(M) |
| 195 Methyl Amyl Ketone | 43 | 8.380 | 8.380 | (1.093) | 1079051 | 100.000 | 102.21 |
| 200 Dimethyl Disulfide | 94 | 6.194 | 6.194 | (0.808) | 1080422 | 100.000 | 101.61 |
| 202 Isobutylene | 41 | 1.242 | 1.242 | (0.297) | 44663 | 100.000 | 94.27(M) |
| 205 2-Ethylhexyl Acrylate | 55 | 11.544 | 11.544 | (1.195) | 790630 | 100.000 | 101.60 |

## 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.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.




Data File: \\NAHSTMS005\Target\chem\voa6.i\X230615.b\X061509.D
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Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8;
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Column phase: DB624

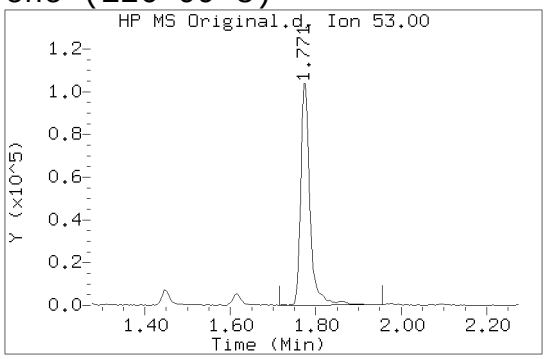
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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LabSampID : VSTD100

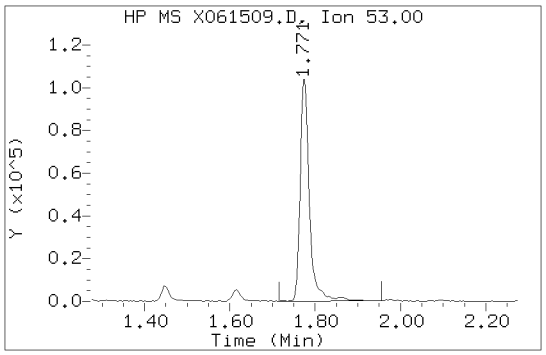
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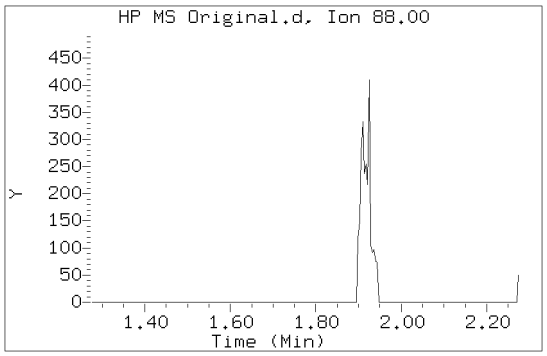
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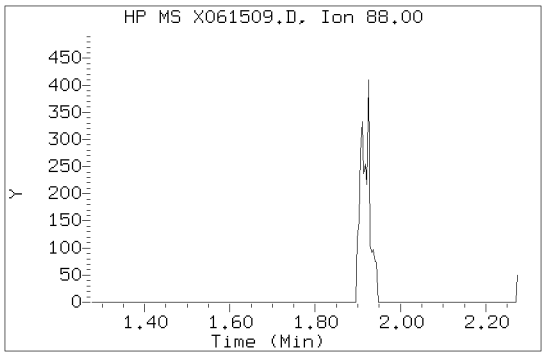

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BEFORE
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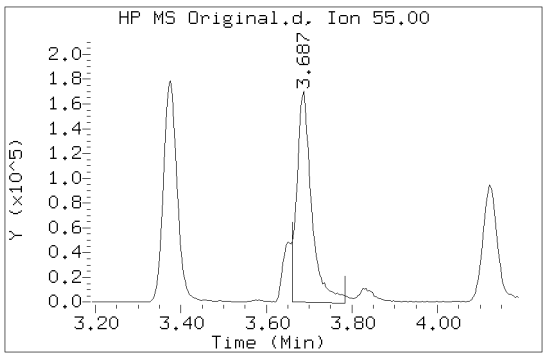

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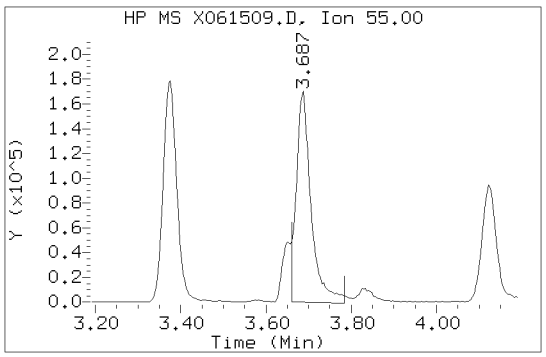

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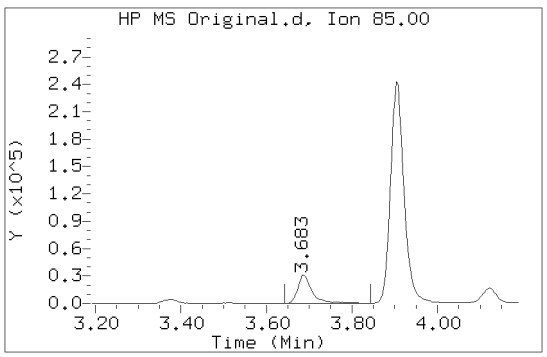
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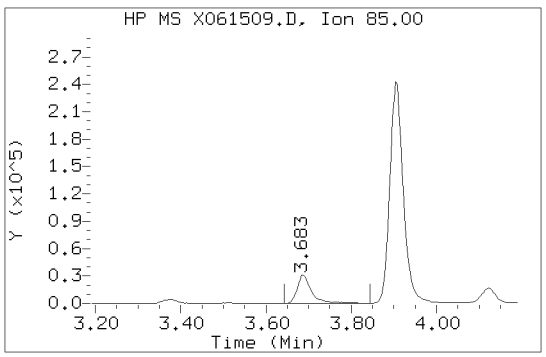

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BEFORE
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AFTER
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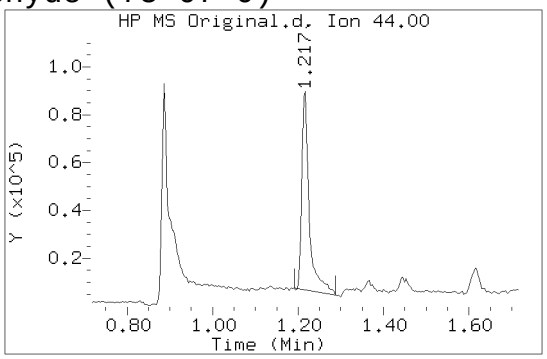


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InstruID : voa6.i
LabSampID : VSTD100

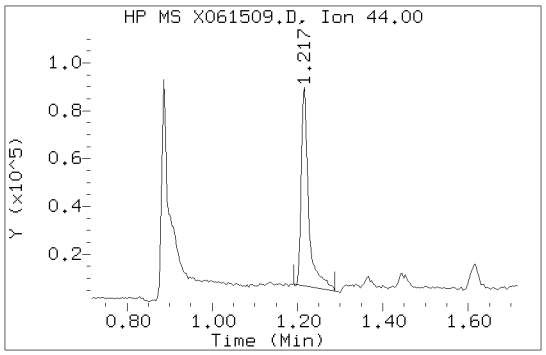
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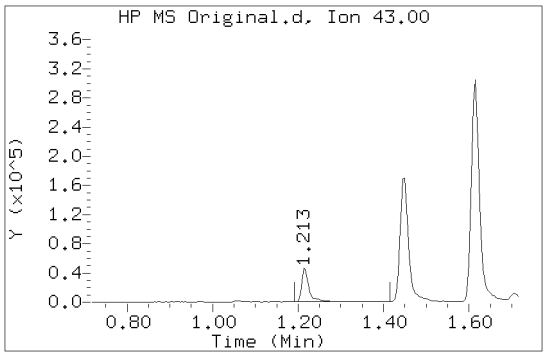
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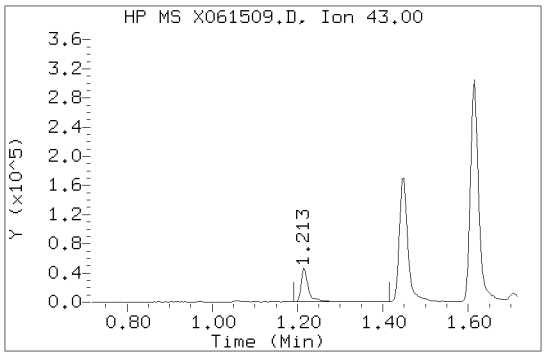

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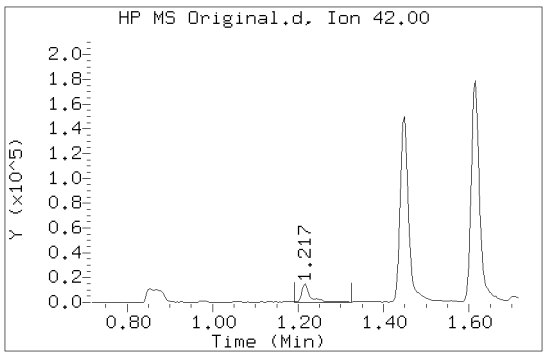

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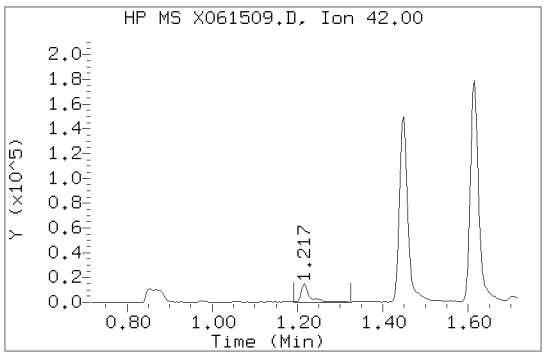

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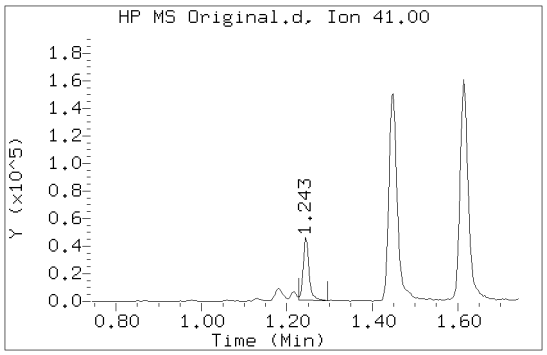

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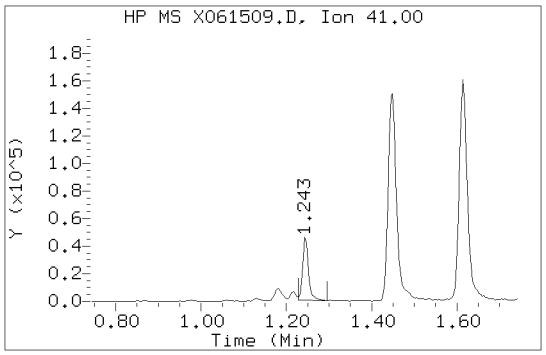

## Isobutylene (115-11-7)

Reason Code:

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AFTER
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20-Jun-2023
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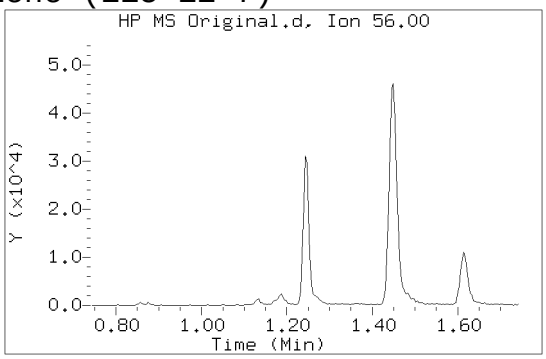
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LabSampID : VSTD100

Isobutylene (115-11-7)

Reason Code:

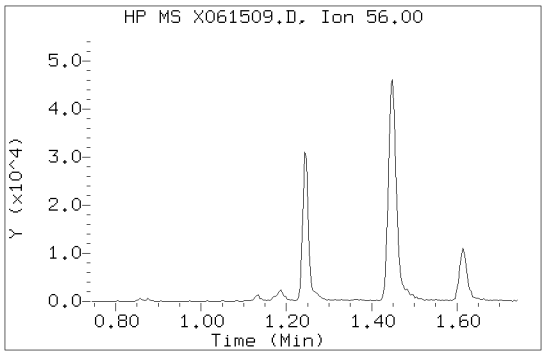
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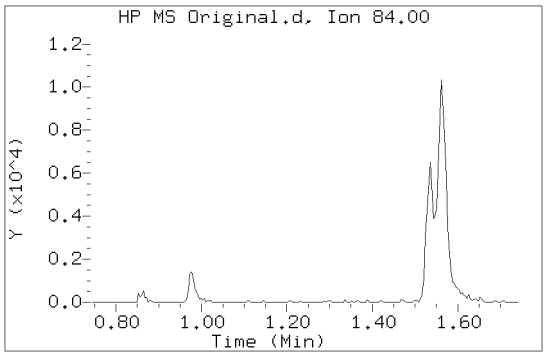

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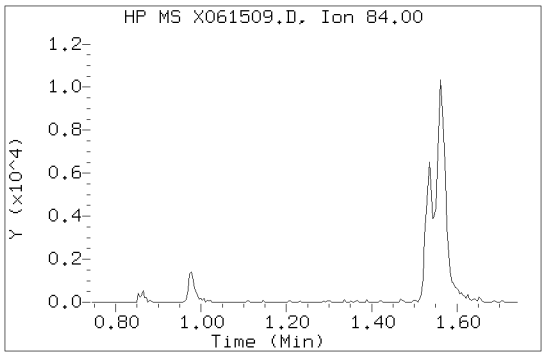

BEFORE

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AFTER

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20-Jun-2023
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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061510.D  Page 1
Report Date: 20-Jun-2023 18:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061510.D
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Inj Date  : 15-JUN-2023 14:24
Operator  : PC  Inst ID: voa6.i
Smp Info  : VSTD150;VSTD150;1;9;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 20-Jun-2023 18:24 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 14:24  Cal File: X061510.D
Als bottle: 11  Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 00000_8260.sub
Target Version:  4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.181 | 4.181 | (1.000) | 496372 | 50.0000 | |
| 2 | Dichlorodifluoromethane | 85 | 0.976 | 0.976 | (0.234) | 640204 | 150.000 | 149.11 |
| 3 | Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 786709 | 150.000 | 147.87 |
| 4 | Propionitrile | 54 | 3.649 | 3.653 | (0.873) | 930050 | 1500.00 | 1549.29 |
| 5 | Vinyl Chloride | 62 | 1.145 | 1.149 | (0.274) | 746276 | 150.000 | 143.15 |
| 6 | Bromomethane | 94 | 1.336 | 1.344 | (0.320) | 433384 | 150.000 | 144.83 |
| 7 | Chloroethane | 64 | 1.404 | 1.407 | (0.336) | 453938 | 150.000 | 142.45 |
| 8 | Trichlorofluoromethane | 101 | 1.561 | 1.565 | (0.373) | 900602 | 150.000 | 145.38 |
| 9 | Acrolein | 56 | 1.445 | 1.449 | (0.346) | 97655 | 300.000 | 317.05 |
| 10 | Acetone | 43 | 1.973 | 1.973 | (0.472) | 376478 | 300.000 | 291.39 |
| 11 | 1,1-Dichloroethene | 96 | 1.913 | 1.917 | (0.458) | 543055 | 150.000 | 139.74 |
| 12 | Isobutyl Alcohol | 43 | 4.672 | 4.676 | (1.117) | 1920074 | 3000.00 | 2966.65 |
| 13 | Acetonitrile | 39 | 2.198 | 2.202 | (0.526) | 746339 | 1500.00 | 1550.19 |
| 14 | Allyl Chloride | 41 | 2.198 | 2.202 | (0.526) | 1653414 | 150.000 | 151.89 |
| 15 | Iodomethane | 142 | 2.030 | 2.030 | (0.485) | 1987305 | 300.000 | 295.77 |
| 16 | Acrylonitrile | 53 | 2.532 | 2.536 | (0.606) | 489629 | 300.000 | 310.76 |
| 17 | Methylene Chloride | 84 | 2.303 | 2.307 | (0.551) | 728727 | 150.000 | 132.75 |
| 18 | Methyl tert-butyl ether | 73 | 2.536 | 2.536 | (0.606) | 1979321 | 150.000 | 145.93 |
| 19 | Carbon Disulfide | 76 | 2.071 | 2.071 | (0.495) | 4109640 | 300.000 | 296.99 |
| 20 | trans-1,2-Dichloroethene | 96 | 2.528 | 2.532 | (0.605) | 664057 | 150.000 | 142.80 |
| 21 | Vinyl Acetate | 43 | 2.997 | 2.997 | (0.717) | 3702324 | 300.000 | 298.30 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 22 1,1-Dichloroethane | 63 | 2.922 | 2.922 (0.699) | 1188336 | 150.000 | 141.85 |
| 23 Chloroprene | 53 | 1.771 | 1.775 (0.424) | 235576 | 150.000 | 142.78 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 24 | 2-Butanone | 43 | 3.574 | 3.578 | (0.855) | 535272 | 300.000 | 327.67 |
| 25 | Methacrylonitrile | 41 | 3.818 | 3.821 | (0.913) | 606858 | 150.000 | 148.17(aH) |
| 26 | 2,2-Dichloropropane | 77 | 3.507 | 3.514 | (0.839) | 998442 | 150.000 | 151.04 |
| 27 | cis-1,2-Dichloroethene | 96 | 3.522 | 3.525 | (0.842) | 764228 | 150.000 | 142.51 |
| 28 | Chloroform | 83 | 3.904 | 3.904 | (0.934) | 1226489 | 150.000 | 136.03 |
| 29 | Bromochloromethane | 128 | 3.791 | 3.795 | (0.907) | 402633 | 150.000 | 140.90 |
| $ 30 | Dibromofluoromethane | 113 | 4.095 | 4.099 | (0.979) | 670515 | 150.000 | 151.95 |
| 31 | 1,1,1-Trichloroethane | 97 | 4.080 | 4.084 | (0.976) | 1052921 | 150.000 | 144.48 |
| 32 | 1,1-Dichloropropene | 75 | 4.279 | 4.279 | (0.862) | 948327 | 150.000 | 149.27 |
| 33 | 1,2-Dichloroethane | 62 | 4.552 | 4.556 | (0.917) | 933139 | 150.000 | 146.58 |
| 34 | Carbon Tetrachloride | 117 | 4.264 | 4.264 | (0.859) | 907027 | 150.000 | 148.45 |
| $ 35 | 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 717187 | 150.000 | 151.59 |
| * 36 | 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 758148 | 50.0000 | |
| 37 | Benzene | 78 | 4.511 | 4.511 | (0.909) | 2855100 | 150.000 | 146.40 |
| 38 | Trichloroethene | 130 | 5.205 | 5.205 | (1.048) | 801968 | 150.000 | 149.14 |
| 39 | Bromodichloromethane | 83 | 5.722 | 5.722 | (1.153) | 985431 | 150.000 | 142.84 |
| 40 | Methyl Methacrylate | 41 | 5.602 | 5.606 | (1.340) | 588875 | 150.000 | 153.24 |
| 41 | 2-Chloroethylvinyl ether | 63 | 6.044 | 6.048 | (1.217) | 573937 | 300.000 | 307.45 |
| 42 | 1,2-Dichloropropane | 63 | 5.433 | 5.437 | (1.094) | 749457 | 150.000 | 146.41 |
| 43 | 2-Nitropropane | 43 | 5.966 | 5.966 | (1.427) | 204861 | 150.000 | 153.12(H) |
| 44 | Dibromomethane | 93 | 5.550 | 5.550 | (1.118) | 460730 | 150.000 | 143.38 |
| 45 | 4-Methyl-2-Pentanone | 43 | 6.322 | 6.322 | (0.824) | 1336051 | 300.000 | 286.37 |
| 46 | cis-1,3-Dichloropropene | 75 | 6.153 | 6.153 | (1.239) | 1279171 | 150.000 | 150.39 |
| * 47 | Chlorobenzene-d5 | 117 | 7.668 | 7.668 | (1.000) | 722233 | 50.0000 | |
| $ 48 | Toluene-d8 | 98 | 6.386 | 6.386 | (0.833) | 2595498 | 150.000 | 142.14 |
| 49 | Ethyl Methacrylate | 69 | 6.712 | 6.708 | (1.352) | 784584 | 150.000 | 144.38 |
| 50 | Toluene | 91 | 6.446 | 6.445 | (0.841) | 3078749 | 150.000 | 145.20 |
| 51 | trans-1,3-Dichloropropene | 75 | 6.678 | 6.678 | (1.345) | 1082340 | 150.000 | 152.08 |
| 52 | 2-Hexanone | 43 | 7.083 | 7.083 | (0.924) | 932009 | 300.000 | 299.06 |
| 53 | 1,1,2-Trichloroethane | 83 | 6.839 | 6.835 | (0.892) | 582084 | 150.000 | 140.91 |
| 54 | 1,3-Dichloropropane | 76 | 6.978 | 6.978 | (0.910) | 1189873 | 150.000 | 142.46 |
| 55 | Dibromochloromethane | 129 | 7.173 | 7.173 | (0.935) | 863836 | 150.000 | 147.55 |
| 56 | Tetrachloroethene | 164 | 6.925 | 6.925 | (0.903) | 652660 | 150.000 | 149.68 |
| 57 | 1,2-Dibromoethane | 107 | 7.259 | 7.259 | (0.947) | 750201 | 150.000 | 142.08 |
| 58 | 1-Chlorohexane | 55 | 7.694 | 7.694 | (1.550) | 693641 | 150.000 | 150.44 |
| 59 | Chlorobenzene | 112 | 7.690 | 7.690 | (1.003) | 2097306 | 150.000 | 144.56 |
| 60 | 1,1,1,2-Tetrachloroethane | 131 | 7.773 | 7.773 | (1.014) | 788685 | 150.000 | 145.78 |
| 61 | Ethylbenzene | 106 | 7.799 | 7.799 | (1.017) | 1108469 | 150.000 | 148.29 |
| 62 | m,p-Xylenes | 106 | 7.904 | 7.900 | (1.031) | 2779898 | 300.000 | 301.57 |
| 63 | o-Xylene | 106 | 8.237 | 8.237 | (1.074) | 1341283 | 150.000 | 145.82 |
| 64 | Styrene | 104 | 8.256 | 8.256 | (1.077) | 2293595 | 150.000 | 151.38 |
| 66 | Bromoform | 173 | 8.406 | 8.410 | (1.096) | 616100 | 150.000 | 150.96 |
| 67 | Isopropylbenzene | 105 | 8.560 | 8.560 | (1.116) | 3423955 | 150.000 | 150.60 |
| 68 | 1,1,2,2-Tetrachloroethane | 83 | 8.837 | 8.837 | (0.915) | 999723 | 150.000 | 133.32 |
| $ 69 | 4-Bromofluorobenzene | 95 | 8.687 | 8.687 | (1.133) | 1057321 | 150.000 | 151.02 |
| * 70 | 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.658 | (1.000) | 426427 | 50.0000 | |
| 71 | 1,2,3-Trichloropropane | 75 | 8.863 | 8.863 | (0.917) | 728412 | 150.000 | 135.47(M) |
| 72 | trans-1,4-Dichloro-2-butene | 53 | 8.886 | 8.886 | (1.159) | 276176 | 150.000 | 157.10 |
| 73 | n-Propylbenzene | 91 | 8.912 | 8.908 | (0.922) | 4145728 | 150.000 | 147.73 |
| 74 | Bromobenzene | 156 | 8.803 | 8.803 | (0.911) | 998637 | 150.000 | 143.68 |
| 75 | 1,3,5-Trimethylbenzene | 105 | 9.066 | 9.066 | (0.938) | 3021206 | 150.000 | 146.72 |
| 76 | 2-Chlorotoluene | 91 | 8.972 | 8.972 | (0.929) | 2465333 | 150.000 | 138.34 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 77 | 4-Chlorotoluene | 91 | 9.066 | 9.070 (0.938) | 2873857 | 150.000 | 144.58 |
| 78 | tert-Butylbenzene | 119 | 9.336 | 9.336 (0.966) | 2516939 | 150.000 | 146.72 |

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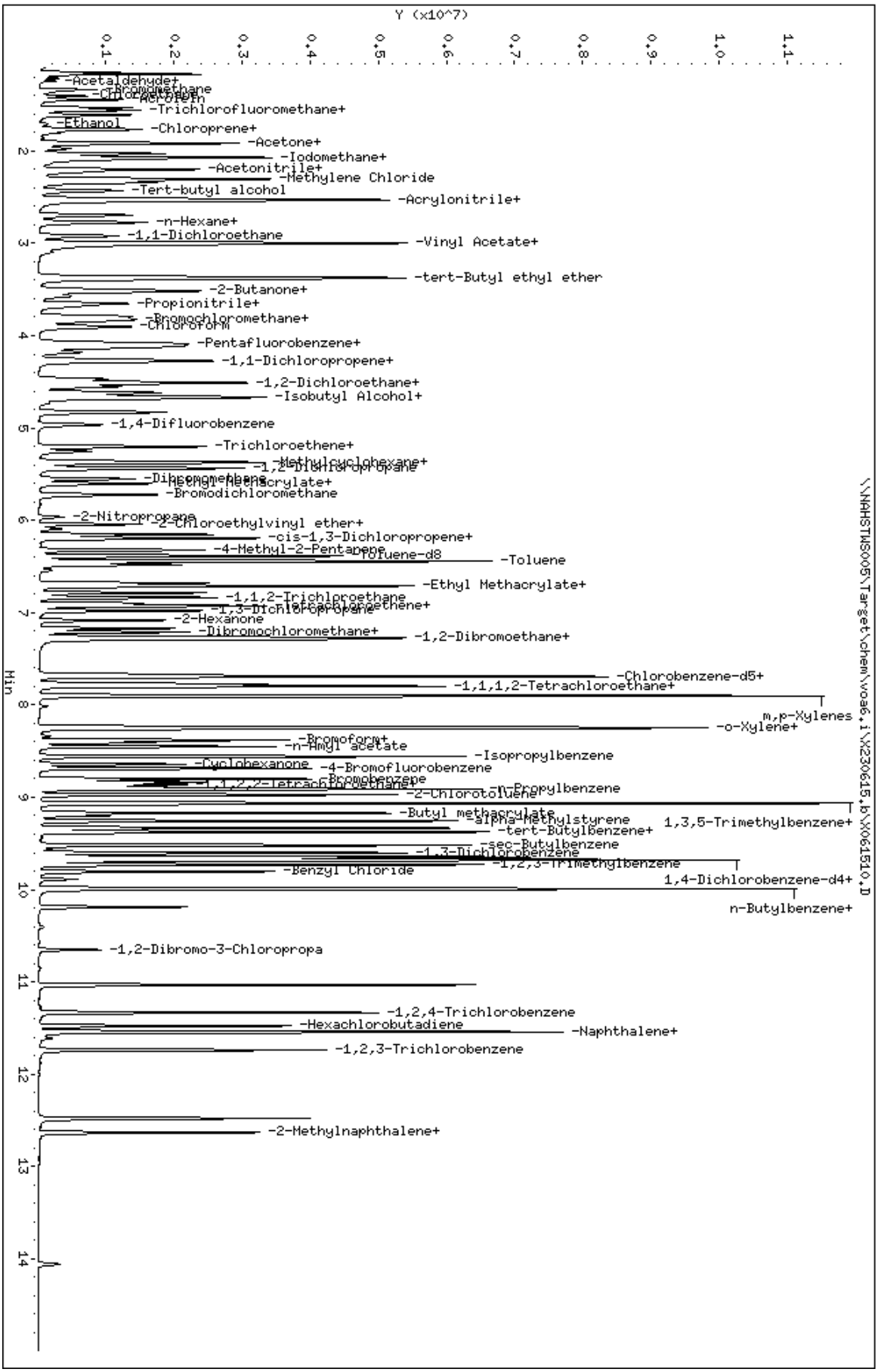
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 79 | 1,2,4-Trimethylbenzene | 105 | 9.377 | 9.377 | (0.971) | 3046806 | 150.000 | 146.66 |
| 81 | sec-Butylbenzene | 105 | 9.519 | 9.519 | (0.985) | 3637698 | 150.000 | 150.35 |
| 82 | p-Isopropyltoluene | 119 | 9.647 | 9.647 | (0.998) | 3234520 | 150.000 | 152.70 |
| 83 | 1,3-Dichlorobenzene | 146 | 9.602 | 9.602 | (0.994) | 1838273 | 150.000 | 148.54 |
| 84 | 1,4-Dichlorobenzene | 146 | 9.681 | 9.681 | (1.002) | 1883662 | 150.000 | 142.20 |
| 86 | Benzyl Chloride | 91 | 9.804 | 9.808 | (1.279) | 1986937 | 150.000 | 166.55 |
| 87 | n-Butylbenzene | 91 | 9.992 | 9.992 | (1.034) | 2886932 | 150.000 | 160.02 |
| 88 | 1,2-Dichlorobenzene | 146 | 9.988 | 9.992 | (1.034) | 1800734 | 150.000 | 146.65 |
| 89 | 1,2-Dibromo-3-Chloropropane | 155 | 10.651 | 10.655 | (1.102) | 182534 | 150.000 | 148.64 |
| 90 | 1,2,4-Trichlorobenzene | 180 | 11.334 | 11.334 | (1.173) | 1349005 | 150.000 | 157.93 |
| 91 | Hexachlorobutadiene | 225 | 11.476 | 11.476 | (1.188) | 614842 | 150.000 | 160.36 |
| 92 | Naphthalene | 128 | 11.536 | 11.540 | (1.194) | 2944619 | 150.000 | 153.13 |
| 93 | 1,2,3-Trichlorobenzene | 180 | 11.739 | 11.739 | (1.215) | 1213404 | 150.000 | 154.38 |
| 146 | Methyl acetate | 43 | 2.232 | 2.232 | (0.534) | 443517 | 150.000 | 150.95 |
| 138 | Freon TF | 101 | 1.917 | 1.917 | (0.459) | 548562 | 150.000 | 151.80 |
| 141 | Cyclohexane | 56 | 4.121 | 4.121 | (0.986) | 967778 | 150.000 | 152.95 |
| 142 | Tetrahydrofuran | 42 | 3.840 | 3.844 | (0.918) | 215293 | 300.000 | 297.61 |
| 147 | Methylcyclohexane | 55 | 5.377 | 5.381 | (1.083) | 1751972 | 150.000 | 165.34(A) |
| 135 | 1,4-Dioxane | 88 | 5.598 | 5.598 | (1.339) | 184006 | 3000.00 | 3058.89 |
| 132 | n-Butanol | 56 | 5.253 | 5.253 | (1.256) | 401679 | 3000.00 | 2960.90 |
| 131 | Methyl Acrylate | 55 | 3.683 | 3.690 | (0.881) | 649317 | 150.000 | 161.51(M) |
| 133 | Ethyl Acrylate | 55 | 5.377 | 5.381 | (1.286) | 1751972 | 150.000 | 151.60 |
| 136 | n-Hexane | 57 | 2.772 | 2.776 | (0.663) | 791040 | 150.000 | 149.41 |
| 139 | Diethyl ether | 59 | 1.760 | 1.760 | (0.421) | 458570 | 150.000 | 147.46 |
| 148 | Tert-butyl alcohol | 59 | 2.431 | 2.431 | (0.581) | 1427844 | 3000.00 | 2801.23 |
| 149 | Isopropyl alcohol | 45 | 2.097 | 2.093 | (0.502) | 816586 | 3000.00 | 2902.35 |
| 156 | Diisopropyl ether | 45 | 3.001 | 3.000 | (0.718) | 2160748 | 150.000 | 147.59 |
| 160 | 2-Methylnaphthalene | 142 | 12.631 | 12.634 | (1.307) | 1352043 | 150.000 | 160.64 |
| 166 | 1,2,3-Trimethylbenzene | 105 | 9.729 | 9.729 | (1.007) | 3057315 | 150.000 | 150.83 |
| 167 | Ethanol | 45 | 1.707 | 1.707 | (0.408) | 127474 | 3000.00 | 2686.89 |
| 172 | tert-Butyl formate | 59 | 4.620 | 4.612 | (1.105) | 1196724 | 300.000 | 292.75(A) |
| 173 | 3,3-Dimethyl-1-butanol | 57 | 7.289 | 7.285 | (0.951) | 1664675 | 3000.00 | 2818.10 |
| 174 | tert-Amyl methyl ether | 73 | 4.665 | 4.665 | (1.116) | 2367965 | 150.000 | 148.72 |
| 175 | tert-Butyl ethyl ether | 59 | 3.375 | 3.379 | (0.807) | 2214645 | 150.000 | 146.16 |
| 176 | tert-Amyl alcohol | 59 | 4.620 | 4.612 | (1.105) | 1196724 | 3000.00 | 2870.24 |
| 151 | 4-Methyl-2-pentanol | 45 | 6.712 | 6.708 | (1.352) | 3406170 | 3000.00 | 2825.27 |
| 180 | 1-Methylnaphthalene | 142 | 12.631 | 12.634 | (1.307) | 1352043 | 150.000 | (a) |
| 140 | 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.279) | 610268 | 150.000 | 148.35 |
| 152 | Amyl alcohol | 42 | 6.899 | 6.899 | (0.900) | 451743 | 3000.00 | 3357.05 |
| 158 | Dichlorofluoromethane | 67 | 1.531 | 1.535 | (0.366) | 1052332 | 150.000 | 147.51 |
| 159 | Propylene oxide | 43 | 1.805 | 1.805 | (0.432) | 101677 | 300.000 | 231.04 |
| 161 | 3-Methyl-1-butanol | 55 | 6.899 | 6.899 | (0.900) | 427718 | 3000.00 | 3002.99 |
| 162 | Butyl acrylate | 55 | 8.249 | 8.249 | (1.076) | 1639896 | 150.000 | 152.49 |
| 163 | Butyl methacrylate | 41 | 9.171 | 9.167 | (0.949) | 1058796 | 150.000 | 147.62 |
| 164 | Dicyclopentadiene | 66 | 9.684 | 9.681 | (1.002) | 3392615 | 150.000 | 142.24 |
| 182 | Epichlorohydrin | 57 | 6.093 | 6.093 | (1.227) | 252651 | 600.000 | 557.11 |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 1428285 | 300.000 | (a) |
| 145 | alpha-Methylstyrene | 118 | 9.257 | 9.257 | (0.958) | 1536179 | 150.000 | 152.28 |
| 130 | Ethyl Acetate | 43 | 3.653 | 3.657 | (0.874) | 677648 | 150.000 | 133.92 |
| 134 | Cyclohexanone | 55 | 8.642 | 8.642 | (0.894) | 717000 | 3000.00 | 3000.09 |
| 185 | Isoprene | 39 | 1.771 | 1.775 | (0.424) | 170486 | 150.000 | 126.20 |
| 188 | Isopropyl acetate | 43 | 4.672 | 4.676 | (0.941) | 1922342 | 150.000 | 146.82 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 187 n-Amyl acetate | 43 | 8.451 | 8.451 (1.102) | 1418221 | 150.000 | 146.63 |
| 189 n-Butyl acetate | 43 | 7.210 | 7.210 (0.940) | 1191202 | 150.000 | 153.99(H) |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| 150 Allyl alcohol | 57 | 2.772 | 2.772 | (0.663) | 791040 | 3000.00 | 2988.03 |
| 194 Acetaldehyde | 44 | 1.212 | 1.216 | (0.290) | 152553 | 600.000 | 590.61(M) |
| 195 Methyl Amyl Ketone | 43 | 8.380 | 8.380 | (1.093) | 1678861 | 150.000 | 157.86 |
| 200 Dimethyl Disulfide | 94 | 6.194 | 6.194 | (0.808) | 1681271 | 150.000 | 156.96 |
| 202 Isobutylene | 41 | 1.242 | 1.242 | (0.297) | 75658 | 150.000 | 159.41(M) |
| 205 2-Ethylhexyl Acrylate | 55 | 11.547 | 11.544 | (1.195) | 1215186 | 150.000 | 151.37 |

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.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.




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Sample Info: VSTD150;VSTD150;1;9;
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Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

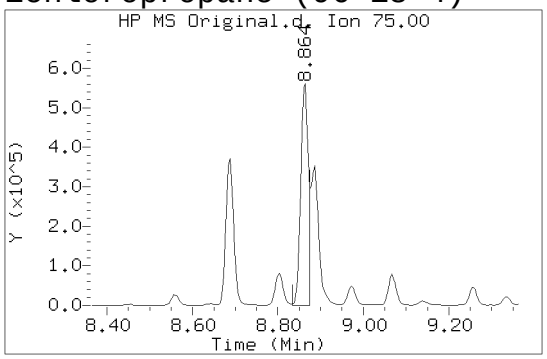
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InstruID : voa6.i
LabSampID : VSTD150

## 1,2,3-Trichloropropane (96-18-4)

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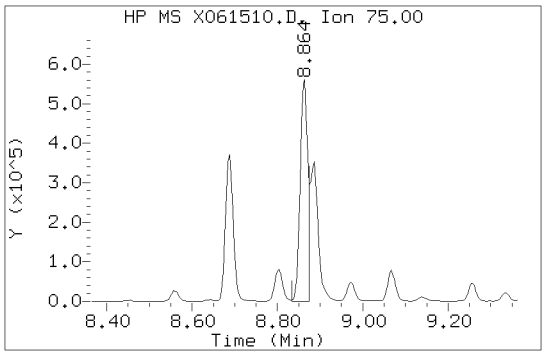
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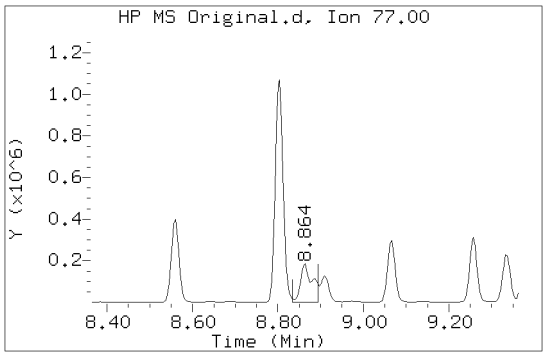

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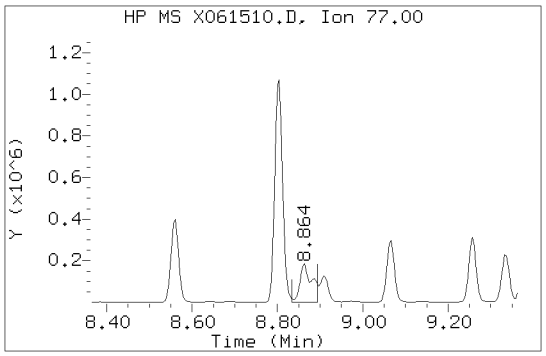

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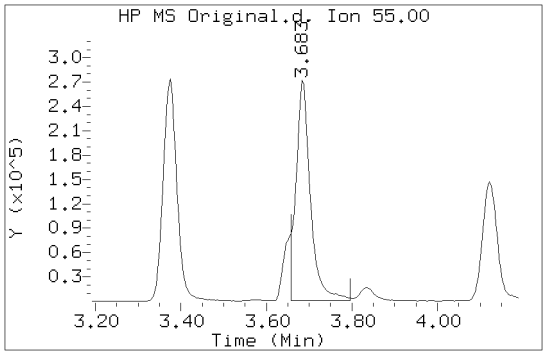



## Methyl Acrylate (96-33-3)

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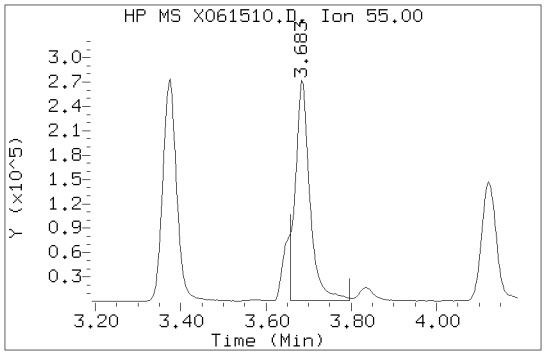
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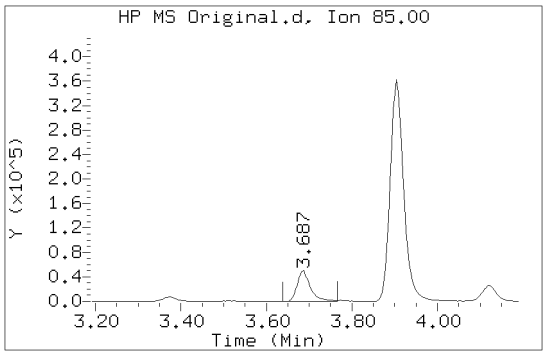

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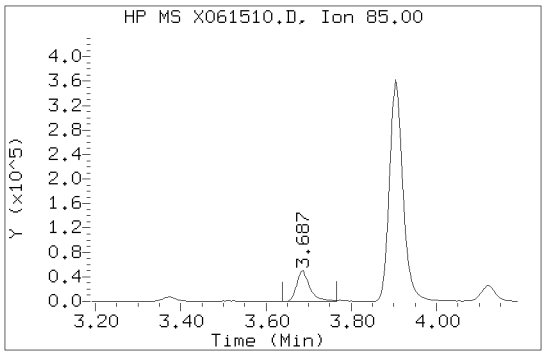

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AFTER

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20-Jun-2023
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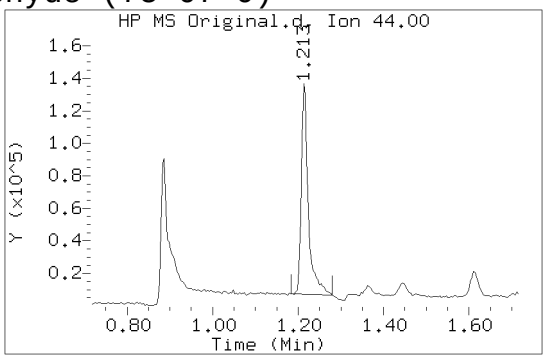
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LabSampID : VSTD150

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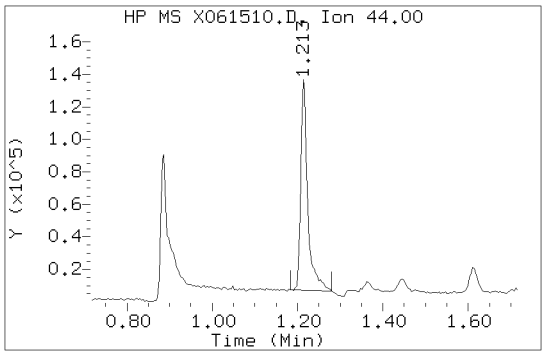
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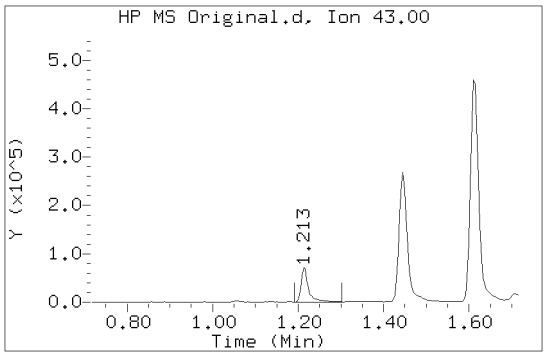

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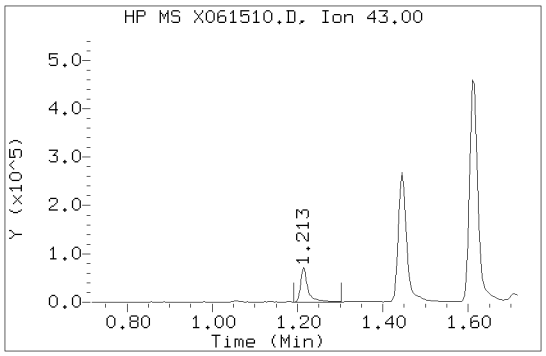

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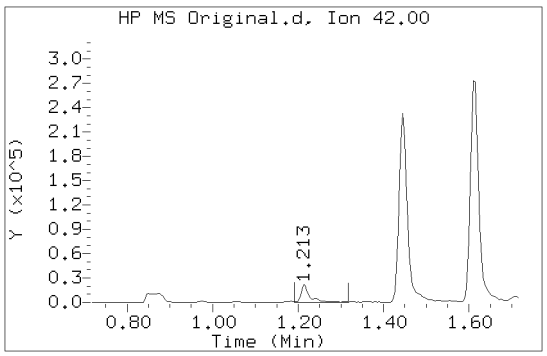

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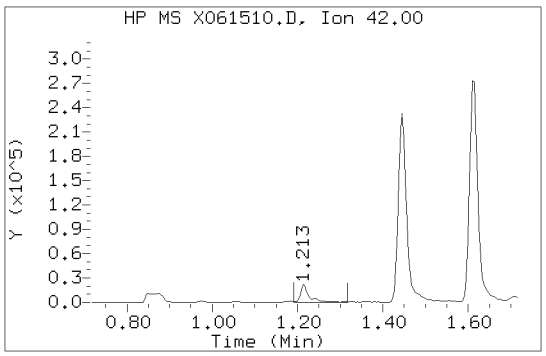

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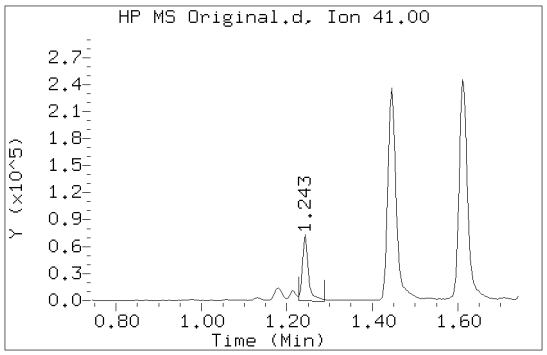



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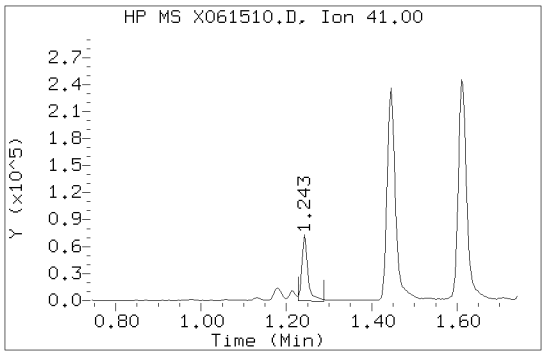
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**AFTER**

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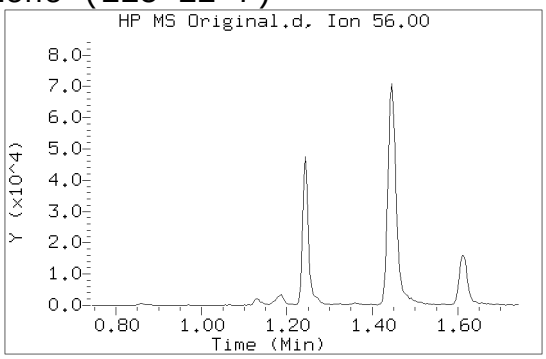


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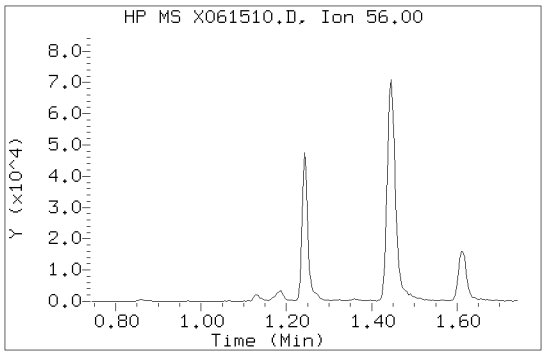
Isobutylene (115-11-7)

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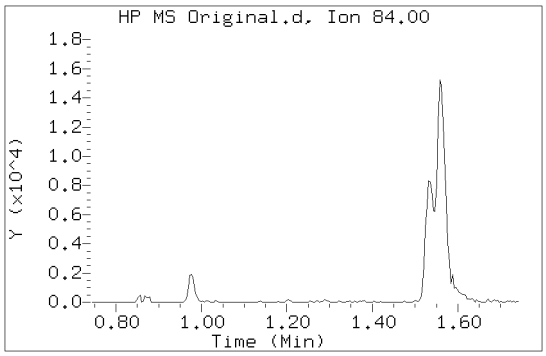
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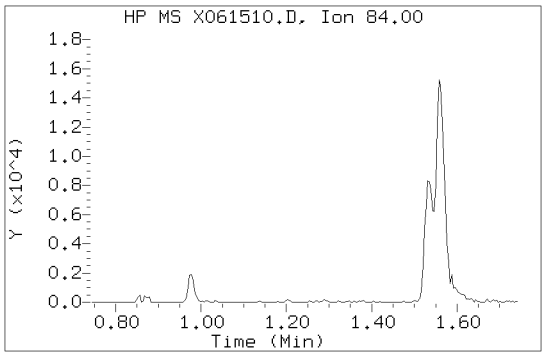

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ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061511.D
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Inj Date  : 15-JUN-2023 14:45
Operator  : PC  Inst ID: voa6.i
Smp Info  : VSTD200;VSTD200;1;10;
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 14:45  Cal File: X061511.D
Als bottle: 12  Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 00000_8260.sub
Target Version:  4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.181 | 4.181 | (1.000) | 500734 | 50.0000 | |
| 2 | Dichlorodifluoromethane | 85 | 0.976 | 0.976 | (0.234) | 870731 | 200.000 | 200.92(A) |
| 3 | Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 1090387 | 200.000 | 202.79(A) |
| 4 | Propionitrile | 54 | 3.653 | 3.653 | (0.874) | 1249104 | 2000.00 | 2062.65(A) |
| 5 | Vinyl Chloride | 62 | 1.145 | 1.149 | (0.274) | 1008184 | 200.000 | 191.71 |
| 6 | Bromomethane | 94 | 1.336 | 1.344 | (0.320) | 562025 | 200.000 | 186.18 |
| 7 | Chloroethane | 64 | 1.404 | 1.407 | (0.336) | 596342 | 200.000 | 185.51 |
| 8 | Trichlorofluoromethane | 101 | 1.561 | 1.565 | (0.373) | 1219530 | 200.000 | 195.14 |
| 9 | Acrolein | 56 | 1.445 | 1.449 | (0.346) | 130253 | 400.000 | 419.20(A) |
| 10 | Acetone | 43 | 1.973 | 1.973 | (0.472) | 532376 | 400.000 | 408.57(A) |
| 11 | 1,1-Dichloroethene | 96 | 1.913 | 1.917 | (0.458) | 735339 | 200.000 | 187.57 |
| 12 | Isobutyl Alcohol | 43 | 4.676 | 4.676 | (1.118) | 2609313 | 4000.00 | 3996.46 |
| 13 | Acetonitrile | 39 | 2.198 | 2.202 | (0.526) | 973976 | 2000.00 | 2005.38(A) |
| 14 | Allyl Chloride | 41 | 2.198 | 2.202 | (0.526) | 2178817 | 200.000 | 198.41 |
| 15 | Iodomethane | 142 | 2.030 | 2.030 | (0.485) | 2762966 | 400.000 | 400.85(A) |
| 16 | Acrylonitrile | 53 | 2.532 | 2.536 | (0.606) | 656730 | 400.000 | 413.18(A) |
| 17 | Methylene Chloride | 84 | 2.303 | 2.307 | (0.551) | 965975 | 200.000 | 174.44 |
| 18 | Methyl tert-butyl ether | 73 | 2.536 | 2.536 | (0.606) | 2607425 | 200.000 | 190.56 |
| 19 | Carbon Disulfide | 76 | 2.071 | 2.071 | (0.495) | 5590697 | 400.000 | 400.51(A) |
| 20 | trans-1,2-Dichloroethene | 96 | 2.528 | 2.532 | (0.605) | 884359 | 200.000 | 188.52 |
| 21 | Vinyl Acetate | 43 | 2.997 | 2.997 | (0.717) | 4777086 | 400.000 | 381.54 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 22 1,1-Dichloroethane | 63 | 2.922 | 2.922 (0.699) | 1592034 | 200.000 | 188.39 |
| 23 Chloroprene | 53 | 1.771 | 1.775 (0.424) | 322483 | 200.000 | 193.76 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 24 2-Butanone | 43 | 3.574 | 3.578 | (0.855) | 739267 | 400.000 | 448.61(A) |
| | 25 Methacrylonitrile | 41 | 3.818 | 3.821 | (0.913) | 813003 | 200.000 | 196.77(aH) |
| | 26 2,2-Dichloropropane | 77 | 3.510 | 3.514 | (0.840) | 1330788 | 200.000 | 199.57 |
| | 27 cis-1,2-Dichloroethene | 96 | 3.525 | 3.525 | (0.843) | 1026334 | 200.000 | 189.72 |
| | 28 Chloroform | 83 | 3.904 | 3.904 | (0.934) | 1629503 | 200.000 | 179.15 |
| | 29 Bromochloromethane | 128 | 3.791 | 3.795 | (0.907) | 536706 | 200.000 | 186.18 |
| $ | 30 Dibromofluoromethane | 113 | 4.095 | 4.099 | (0.979) | 880893 | 200.000 | 198.00 |
| | 31 1,1,1-Trichloroethane | 97 | 4.080 | 4.084 | (0.976) | 1429867 | 200.000 | 194.50 |
| | 32 1,1-Dichloropropene | 75 | 4.279 | 4.279 | (0.862) | 1285848 | 200.000 | 197.36 |
| | 33 1,2-Dichloroethane | 62 | 4.552 | 4.556 | (0.917) | 1210936 | 200.000 | 185.49 |
| | 34 Carbon Tetrachloride | 117 | 4.264 | 4.264 | (0.859) | 1238094 | 200.000 | 197.60 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 943547 | 200.000 | 197.96 |
| * | 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 777502 | 50.0000 | |
| | 37 Benzene | 78 | 4.511 | 4.511 | (0.909) | 3860956 | 200.000 | 193.05 |
| | 38 Trichloroethene | 130 | 5.205 | 5.205 | (1.048) | 1100510 | 200.000 | 199.57 |
| | 39 Bromodichloromethane | 83 | 5.722 | 5.722 | (1.153) | 1329286 | 200.000 | 187.89 |
| | 40 Methyl Methacrylate | 41 | 5.602 | 5.606 | (1.340) | 793003 | 200.000 | 204.57(A) |
| | 41 2-Chloroethylvinyl ether | 63 | 6.044 | 6.048 | (1.217) | 772540 | 400.000 | 403.55(A) |
| | 42 1,2-Dichloropropane | 63 | 5.433 | 5.437 | (1.094) | 1005868 | 200.000 | 191.61 |
| | 43 2-Nitropropane | 43 | 5.966 | 5.966 | (1.427) | 275555 | 200.000 | 204.17(AH) |
| | 44 Dibromomethane | 93 | 5.550 | 5.550 | (1.118) | 616840 | 200.000 | 187.18 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.326 | 6.322 | (0.825) | 1860837 | 400.000 | 388.95 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.153 | 6.153 | (1.239) | 1727929 | 200.000 | 198.09 |
| * | 47 Chlorobenzene-d5 | 117 | 7.668 | 7.668 | (1.000) | 740608 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.386 | 6.386 | (0.833) | 3423635 | 200.000 | 182.84 |
| | 49 Ethyl Methacrylate | 69 | 6.715 | 6.708 | (1.353) | 1105405 | 200.000 | 198.35 |
| | 50 Toluene | 91 | 6.446 | 6.445 | (0.841) | 4158414 | 200.000 | 191.25 |
| | 51 trans-1,3-Dichloropropene | 75 | 6.678 | 6.678 | (1.345) | 1476151 | 200.000 | 202.26(A) |
| | 52 2-Hexanone | 43 | 7.087 | 7.083 | (0.924) | 1310331 | 400.000 | 410.03(A) |
| | 53 1,1,2-Trichloroethane | 83 | 6.839 | 6.835 | (0.892) | 783101 | 200.000 | 184.87 |
| | 54 1,3-Dichloropropane | 76 | 6.982 | 6.978 | (0.911) | 1618260 | 200.000 | 188.94 |
| | 55 Dibromochloromethane | 129 | 7.173 | 7.173 | (0.935) | 1177842 | 200.000 | 196.20 |
| | 56 Tetrachloroethene | 164 | 6.925 | 6.925 | (0.903) | 893575 | 200.000 | 199.85 |
| | 57 1,2-Dibromoethane | 107 | 7.259 | 7.259 | (0.947) | 1022111 | 200.000 | 188.78 |
| | 58 1-Chlorohexane | 55 | 7.694 | 7.694 | (1.550) | 936346 | 200.000 | 198.03 |
| | 59 Chlorobenzene | 112 | 7.694 | 7.690 | (1.003) | 2846238 | 200.000 | 191.31 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 7.773 | 7.773 | (1.014) | 1086600 | 200.000 | 195.87 |
| | 61 Ethylbenzene | 106 | 7.799 | 7.799 | (1.017) | 1500758 | 200.000 | 195.79 |
| | 62 m,p-Xylenes | 106 | 7.904 | 7.900 | (1.031) | 3779135 | 400.000 | 399.80 |
| | 63 o-Xylene | 106 | 8.241 | 8.237 | (1.075) | 1840180 | 200.000 | 195.10 |
| | 64 Styrene | 104 | 8.256 | 8.256 | (1.077) | 3122657 | 200.000 | 200.99(A) |
| | 66 Bromoform | 173 | 8.406 | 8.410 | (1.096) | 854791 | 200.000 | 204.24(A) |
| | 67 Isopropylbenzene | 105 | 8.560 | 8.560 | (1.116) | 4678011 | 200.000 | 200.65(A) |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 8.837 | 8.837 | (0.915) | 1363444 | 200.000 | 178.47 |
| $ | 69 4-Bromofluorobenzene | 95 | 8.687 | 8.687 | (1.133) | 1427380 | 200.000 | 198.99 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.658 | (1.000) | 434451 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 8.863 | 8.863 | (0.917) | 991732 | 200.000 | 181.04 |
| | 72 trans-1,4-Dichloro-2-butene | 53 | 8.886 | 8.886 | (1.159) | 376547 | 200.000 | 208.89(A) |
| | 73 n-Propylbenzene | 91 | 8.912 | 8.908 | (0.922) | 5621706 | 200.000 | 196.63 |
| | 74 Bromobenzene | 156 | 8.803 | 8.803 | (0.911) | 1365635 | 200.000 | 192.85 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.066 | 9.066 | (0.938) | 4092223 | 200.000 | 195.07 |
| | 76 2-Chlorotoluene | 91 | 8.972 | 8.972 | (0.929) | 3338118 | 200.000 | 183.86 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 77 | 4-Chlorotoluene | 91 | 9.070 | 9.070 (0.939) | 3900026 | 200.000 | 192.58 |
| 78 | tert-Butylbenzene | 119 | 9.336 | 9.336 (0.966) | 3451610 | 200.000 | 197.49 |

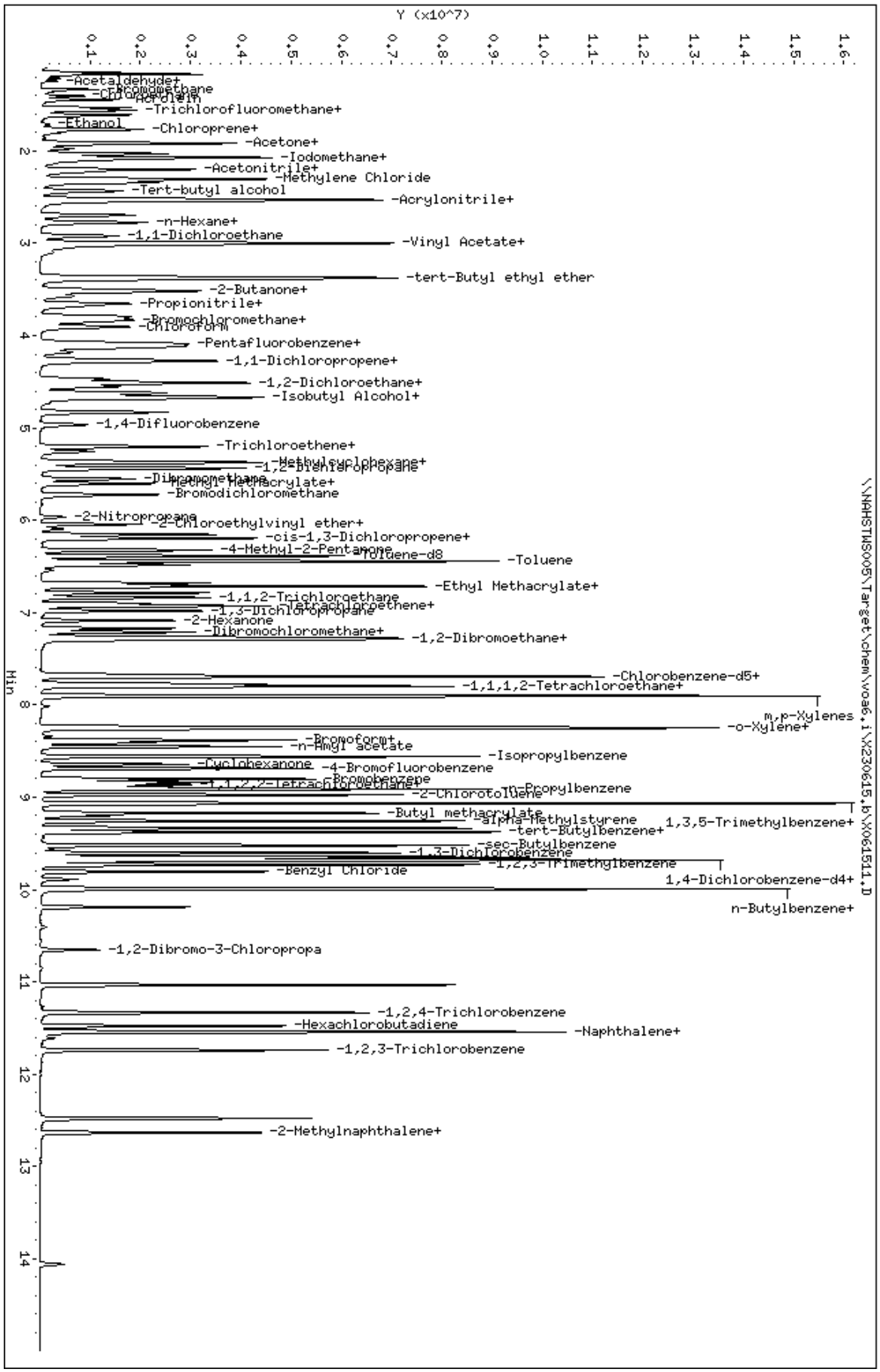
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 79 | 1,2,4-Trimethylbenzene | 105 | 9.377 | 9.377 | (0.971) | 4101830 | 200.000 | 193.80 |
| 81 | sec-Butylbenzene | 105 | 9.519 | 9.519 | (0.985) | 4934096 | 200.000 | 200.17(A) |
| 82 | p-Isopropyltoluene | 119 | 9.651 | 9.647 | (0.999) | 4354959 | 200.000 | 201.80(A) |
| 83 | 1,3-Dichlorobenzene | 146 | 9.602 | 9.602 | (0.994) | 2489876 | 200.000 | 197.48 |
| 84 | 1,4-Dichlorobenzene | 146 | 9.681 | 9.681 | (1.002) | 2548117 | 200.000 | 188.81 |
| 86 | Benzyl Chloride | 91 | 9.804 | 9.808 | (1.279) | 2673170 | 200.000 | 218.52(A) |
| 87 | n-Butylbenzene | 91 | 9.992 | 9.992 | (1.034) | 3887765 | 200.000 | 211.52(A) |
| 88 | 1,2-Dichlorobenzene | 146 | 9.988 | 9.992 | (1.034) | 2411595 | 200.000 | 192.77 |
| 89 | 1,2-Dibromo-3-Chloropropane | 155 | 10.651 | 10.655 | (1.102) | 252682 | 200.000 | 201.87(A) |
| 90 | 1,2,4-Trichlorobenzene | 180 | 11.334 | 11.334 | (1.173) | 1825345 | 200.000 | 209.75(A) |
| 91 | Hexachlorobutadiene | 225 | 11.476 | 11.476 | (1.188) | 844451 | 200.000 | 216.17(A) |
| 92 | Naphthalene | 128 | 11.540 | 11.540 | (1.194) | 3981585 | 200.000 | 203.23(A) |
| 93 | 1,2,3-Trichlorobenzene | 180 | 11.739 | 11.739 | (1.215) | 1629136 | 200.000 | 203.44(A) |
| 146 | Methyl acetate | 43 | 2.228 | 2.232 | (0.533) | 591833 | 200.000 | 199.68 |
| 138 | Freon TF | 101 | 1.917 | 1.917 | (0.459) | 742502 | 200.000 | 198.98 |
| 141 | Cyclohexane | 56 | 4.121 | 4.121 | (0.986) | 1339211 | 200.000 | 209.80(A) |
| 142 | Tetrahydrofuran | 42 | 3.840 | 3.844 | (0.918) | 288575 | 400.000 | 395.43 |
| 147 | Methylcyclohexane | 55 | 5.377 | 5.381 | (1.083) | 2344010 | 200.000 | 215.71(A) |
| 135 | 1,4-Dioxane | 88 | 5.598 | 5.598 | (1.339) | 251392 | 4000.00 | 4142.70(A) |
| 132 | n-Butanol | 56 | 5.253 | 5.253 | (1.256) | 566916 | 4000.00 | 4116.53(A) |
| 131 | Methyl Acrylate | 55 | 3.683 | 3.690 | (0.881) | 844222 | 200.000 | 208.16(AM) |
| 133 | Ethyl Acrylate | 55 | 5.377 | 5.381 | (1.286) | 2344010 | 200.000 | 200.29(A) |
| 136 | n-Hexane | 57 | 2.772 | 2.776 | (0.663) | 1078975 | 200.000 | 185.23 |
| 139 | Diethyl ether | 59 | 1.760 | 1.760 | (0.421) | 599110 | 200.000 | 190.97 |
| 148 | Tert-butyl alcohol | 59 | 2.434 | 2.431 | (0.582) | 1985652 | 4000.00 | 3861.64 |
| 149 | Isopropyl alcohol | 45 | 2.101 | 2.093 | (0.502) | 1121361 | 4000.00 | 3950.87 |
| 156 | Diisopropyl ether | 45 | 3.001 | 3.000 | (0.718) | 2810226 | 200.000 | 190.29 |
| 160 | 2-Methylnaphthalene | 142 | 12.635 | 12.634 | (1.308) | 1856948 | 200.000 | 216.55(A) |
| 166 | 1,2,3-Trimethylbenzene | 105 | 9.729 | 9.729 | (1.007) | 4027136 | 200.000 | 195.00 |
| 167 | Ethanol | 45 | 1.711 | 1.707 | (0.409) | 164628 | 4000.00 | 3439.79 |
| 172 | tert-Butyl formate | 59 | 4.620 | 4.612 | (1.105) | 1716317 | 400.000 | 416.20(A) |
| 173 | 3,3-Dimethyl-1-butanol | 57 | 7.289 | 7.285 | (0.951) | 2284760 | 4000.00 | 3771.87 |
| 174 | tert-Amyl methyl ether | 73 | 4.665 | 4.665 | (1.116) | 3031355 | 200.000 | 188.73 |
| 175 | tert-Butyl ethyl ether | 59 | 3.375 | 3.379 | (0.807) | 2921006 | 200.000 | 191.10 |
| 176 | tert-Amyl alcohol | 59 | 4.620 | 4.612 | (1.105) | 1716317 | 4000.00 | 4080.59(A) |
| 151 | 4-Methyl-2-pentanol | 45 | 6.715 | 6.708 | (1.353) | 4769923 | 4000.00 | 3857.96 |
| 180 | 1-Methylnaphthalene | 142 | 12.635 | 12.634 | (1.308) | 1856948 | 200.000 | (a) |
| 140 | 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.279) | 817942 | 200.000 | 197.11 |
| 152 | Amyl alcohol | 42 | 6.899 | 6.899 | (0.900) | 628432 | 4000.00 | 4554.22(A) |
| 158 | Dichlorofluoromethane | 67 | 1.531 | 1.535 | (0.366) | 1380643 | 200.000 | 191.85 |
| 159 | Propylene oxide | 43 | 1.805 | 1.805 | (0.432) | 129706 | 400.000 | 292.17 |
| 161 | 3-Methyl-1-butanol | 55 | 6.899 | 6.899 | (0.900) | 594725 | 4000.00 | 4059.34(A) |
| 162 | Butyl acrylate | 55 | 8.249 | 8.249 | (1.076) | 2199388 | 200.000 | 199.27 |
| 163 | Butyl methacrylate | 41 | 9.171 | 9.167 | (0.949) | 1360235 | 200.000 | 186.15 |
| 164 | Dicyclopentadiene | 66 | 9.684 | 9.681 | (1.002) | 4448649 | 200.000 | 183.07 |
| 182 | Epichlorohydrin | 57 | 6.093 | 6.093 | (1.227) | 344824 | 800.000 | 741.43 |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 1910693 | 400.000 | (a) |
| 145 | alpha-Methylstyrene | 118 | 9.257 | 9.257 | (0.958) | 2087733 | 200.000 | 203.13(A) |
| 130 | Ethyl Acetate | 43 | 3.653 | 3.657 | (0.874) | 911790 | 200.000 | 178.63 |
| 134 | Cyclohexanone | 55 | 8.642 | 8.642 | (0.894) | 970775 | 4000.00 | 3991.19 |
| 185 | Isoprene | 39 | 1.771 | 1.775 | (0.424) | 228794 | 200.000 | 167.89 |
| 188 | Isopropyl acetate | 43 | 4.676 | 4.676 | (0.942) | 2610700 | 200.000 | 194.43 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 187 n-Amyl acetate | 43 | 8.451 | 8.451 (1.102) | 1947829 | 200.000 | 196.39 |
| 189 n-Butyl acetate | 43 | 7.210 | 7.210 (0.940) | 1653381 | 200.000 | 208.44(AH) |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| 150 Allyl alcohol | 57 | 2.772 | 2.772 | (0.663) | 1078975 | 4000.00 | 3702.64 |
| 194 Acetaldehyde | 44 | 1.212 | 1.216 | (0.290) | 210164 | 800.000 | 807.82(AM) |
| 195 Methyl Amyl Ketone | 43 | 8.380 | 8.380 | (1.093) | 2319422 | 200.000 | 212.69 |
| 200 Dimethyl Disulfide | 94 | 6.194 | 6.194 | (0.808) | 2229099 | 200.000 | 202.95(A) |
| 202 Isobutylene | 41 | 1.242 | 1.242 | (0.297) | 87901 | 200.000 | 183.59(M) |
| 205 2-Ethylhexyl Acrylate | 55 | 11.547 | 11.544 | (1.195) | 1627894 | 200.000 | 198.64 |

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.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.




Data File: \\NAHSTWS005\Target\chem\voa6,i\X230615,b\X061511,D
Date : 15-JUN-2023 14:45
Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10;
Purge Volume: 5.0
Column phase: DB624

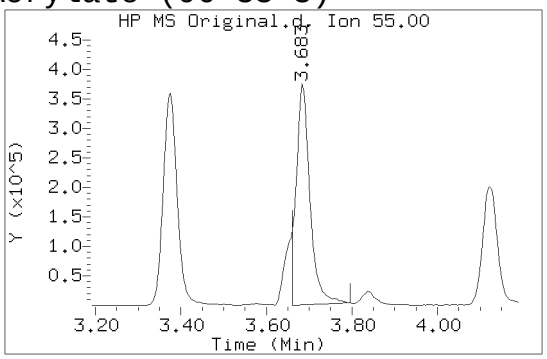
Instrument: voa6,i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061511.D
Inj Date : 15-JUN-2023 14:45
InstruID : voa6.i
LabSampID : VSTD200

## Methyl Acrylate (96-33-3)

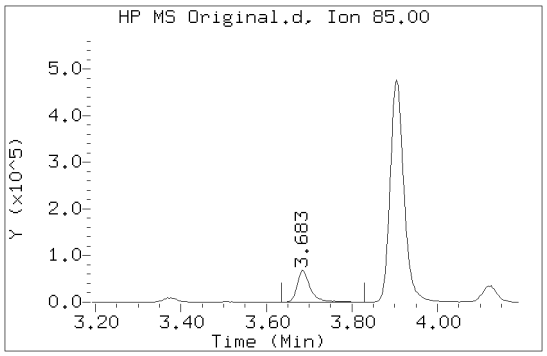
**BEFORE**

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AREA
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HEIGHT
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20-Jun-2023
18:22
linh
pham




**BEFORE**

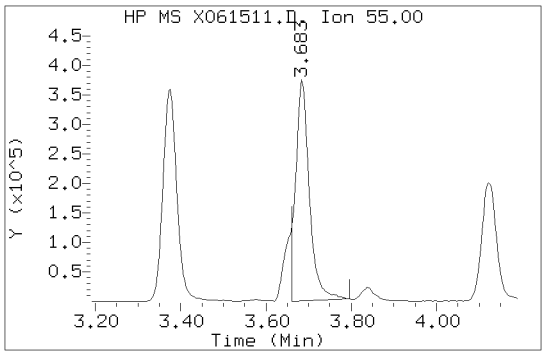
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18:22
linh
pham




**Reason Code:**

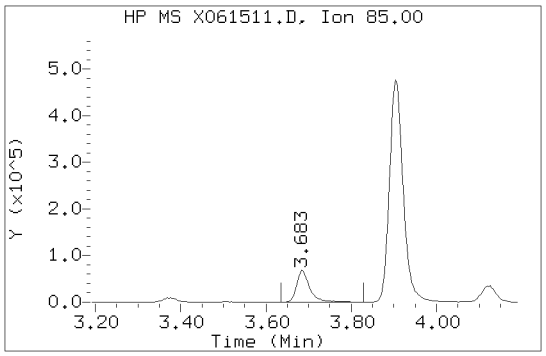
**AFTER**

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HEIGHT
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20-Jun-2023
18:24
linh
pham




**AFTER**

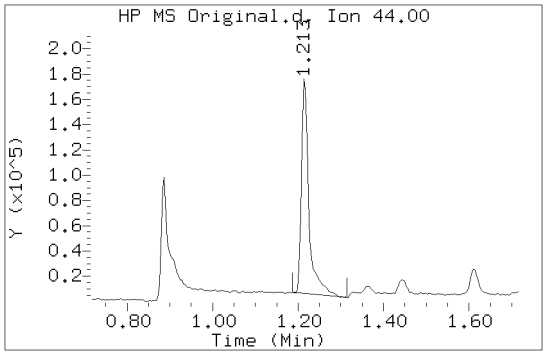
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AREA
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HEIGHT
69392
20-Jun-2023
18:24
linh
pham




## Acetaldehyde (75-07-0)

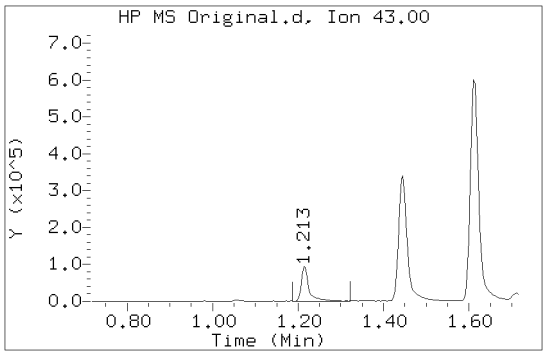
**BEFORE**

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AREA
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HEIGHT
169581
20-Jun-2023
18:22
linh
pham




**BEFORE**

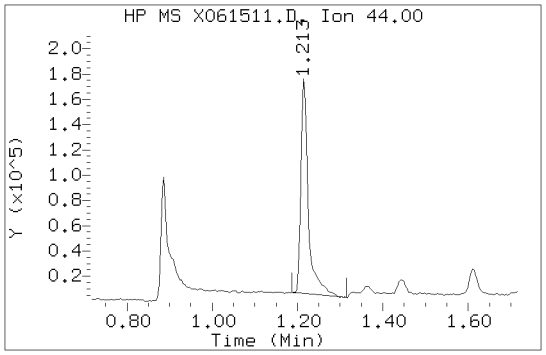
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AREA
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HEIGHT
92538
20-Jun-2023
18:22
linh
pham




**Reason Code:**

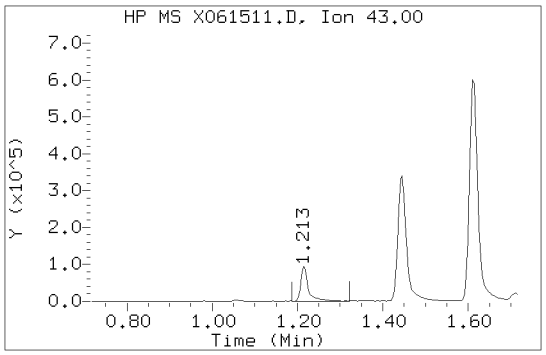
**AFTER**

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HEIGHT
169581
20-Jun-2023
18:24
linh
pham




**AFTER**

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114148
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92538
20-Jun-2023
18:24
linh
pham



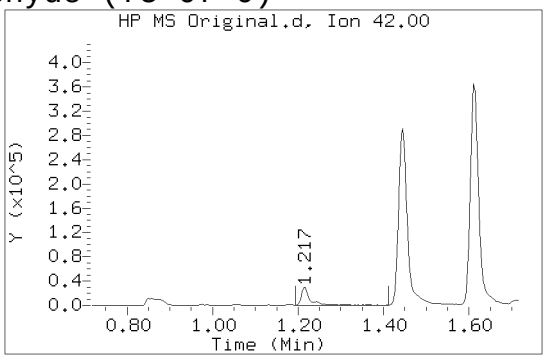
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Inj Date : 15-JUN-2023 14:45
InstruID : voa6.i
LabSampID : VSTD200

## Acetaldehyde (75-07-0)

Reason Code:

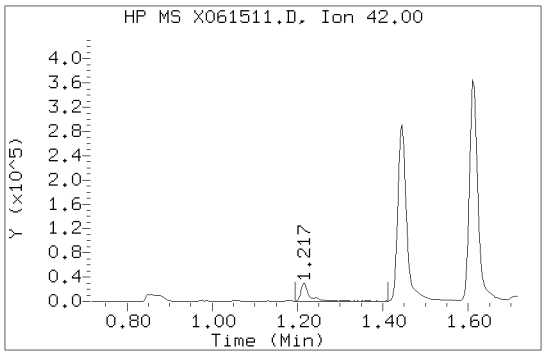
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**AFTER**

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20-Jun-2023
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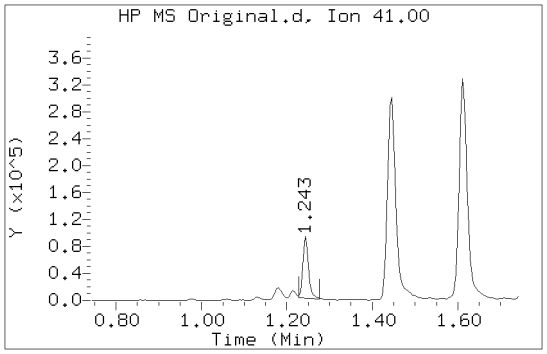



## Isobutylene (115-11-7)

Reason Code:

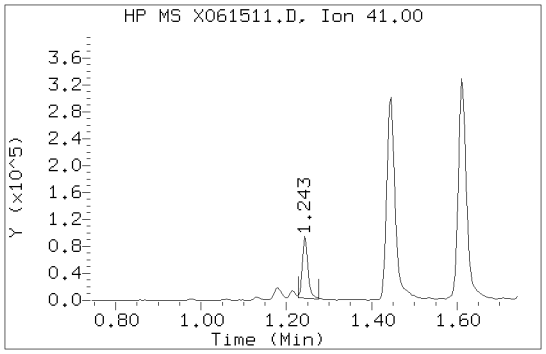
**BEFORE**

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AREA
87901
HEIGHT
91886
20-Jun-2023
18:22
linh
pham



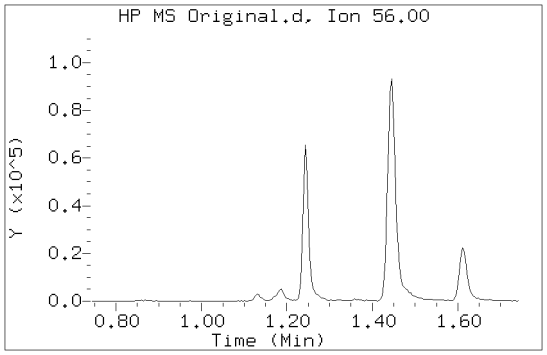

**AFTER**

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91886
20-Jun-2023
18:24
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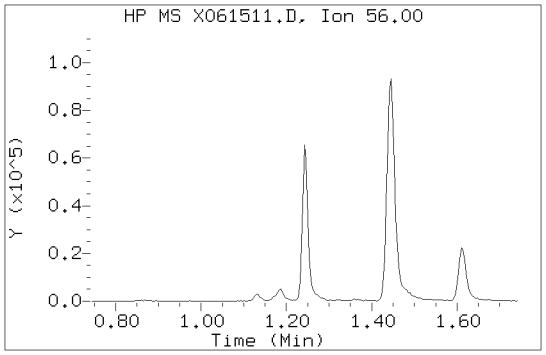

**BEFORE**

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HEIGHT
0
20-Jun-2023
18:22
linh
pham



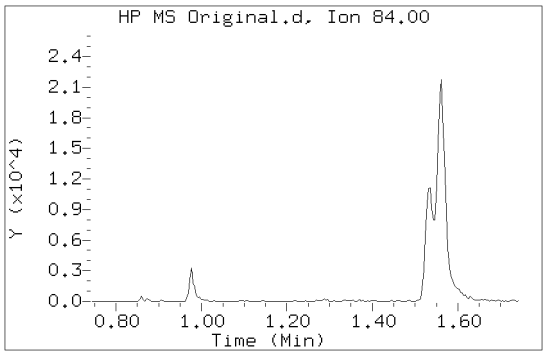

**AFTER**

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HEIGHT
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20-Jun-2023
18:24
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pham



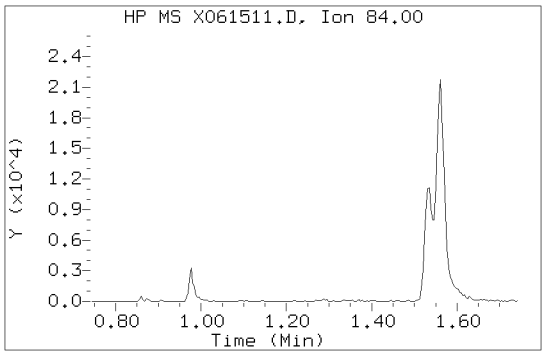

**BEFORE**

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AREA
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HEIGHT
0
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
84
AREA
0
HEIGHT
0
20-Jun-2023
18:24
linh
pham



ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061514.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 15-JUN-2023 15:47
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;ICV
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 14:45 Cal File: X061511.D
Als bottle: 15 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.181 | 4.181 | (1.000) | 509722 | 50.0000 | |
| 2 | Dichlorodifluoromethane | 85 | 0.976 | 0.976 | (0.234) | 214534 | 48.8826 | 48.88 |
| 3 | Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 258398 | 47.9982 | 47.99 |
| 4 | Propionitrile | 54 | 3.649 | 3.653 | (0.873) | 307140 | 498.240 | 498.23 |
| 5 | Vinyl Chloride | 62 | 1.149 | 1.149 | (0.275) | 245673 | 45.8930 | 45.89 |
| 6 | Bromomethane | 94 | 1.344 | 1.344 | (0.321) | 144213 | 46.9322 | 46.93 |
| 7 | Chloroethane | 64 | 1.407 | 1.407 | (0.337) | 150976 | 46.1389 | 46.13 |
| 8 | Trichlorofluoromethane | 101 | 1.565 | 1.565 | (0.374) | 294811 | 46.3438 | 46.34 |
| 9 | Acrolein | 56 | 1.449 | 1.449 | (0.347) | 32873 | 103.933 | 103.93 |
| 10 | Acetone | 43 | 1.973 | 1.973 | (0.472) | 116365 | 87.5170 | 87.51 |
| 11 | 1,1-Dichloroethene | 96 | 1.917 | 1.917 | (0.459) | 176439 | 44.2134 | 44.21 |
| 12 | Isobutyl Alcohol | 43 | 4.676 | 4.676 | (1.118) | 651365 | 980.049 | 980.04 |
| 13 | Acetonitrile | 39 | 2.202 | 2.202 | (0.527) | 244238 | 494.012 | 494.01 |
| 14 | Allyl Chloride | 41 | 2.202 | 2.202 | (0.527) | 549138 | 49.1255 | 49.12 |
| 15 | Iodomethane | 142 | 2.030 | 2.030 | (0.485) | 608491 | 92.1912 | 92.19 |
| 16 | Acrylonitrile | 53 | 2.536 | 2.536 | (0.606) | 152210 | 94.0753 | 94.07 |
| 17 | Methylene Chloride | 84 | 2.307 | 2.307 | (0.552) | 246468 | 43.7245 | 43.72 |
| 18 | Methyl tert-butyl ether | 73 | 2.536 | 2.536 | (0.606) | 659861 | 47.3759 | 47.37 |
| 19 | Carbon Disulfide | 76 | 2.071 | 2.071 | (0.495) | 1287120 | 90.5820 | 90.58 |
| 20 | trans-1,2-Dichloroethene | 96 | 2.532 | 2.532 | (0.606) | 215985 | 45.2311 | 45.23 |
| 21 | Vinyl Acetate | 43 | 2.997 | 2.997 | (0.717) | 1325257 | 103.982 | 103.98 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 22 1,1-Dichloroethane | 63 | 2.922 | 2.922 (0.699) | 397167 | 46.1701 | 46.17 |
| 23 Chloroprene | 53 | 1.775 | 1.775 (0.424) | 75864 | 44.7792 | 44.77(M) |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 24 | 2-Butanone | 43 | 3.578 | 3.578 | (0.856) | 171772 | 102.399 | 102.39 |
| 25 | Methacrylonitrile | 41 | 3.821 | 3.821 | (0.914) | 205167 | 48.7822 | 48.78(a) |
| 26 | 2,2-Dichloropropane | 77 | 3.507 | 3.514 | (0.839) | 334289 | 49.2448 | 49.24 |
| 27 | cis-1,2-Dichloroethene | 96 | 3.525 | 3.525 | (0.843) | 255198 | 46.3440 | 46.34 |
| 28 | Chloroform | 83 | 3.904 | 3.904 | (0.934) | 410273 | 44.3120 | 44.31 |
| 29 | Bromochloromethane | 128 | 3.791 | 3.795 | (0.907) | 131825 | 44.9251 | 44.92 |
| $ 30 | Dibromofluoromethane | 113 | 4.095 | 4.099 | (0.979) | 231563 | 50.8743 | 50.87 |
| 31 | 1,1,1-Trichloroethane | 97 | 4.084 | 4.084 | (0.977) | 336318 | 44.9425 | 44.94 |
| 32 | 1,1-Dichloropropene | 75 | 4.279 | 4.279 | (0.862) | 300244 | 46.8218 | 46.82 |
| 33 | 1,2-Dichloroethane | 62 | 4.556 | 4.556 | (0.918) | 315493 | 49.1002 | 49.10 |
| 34 | Carbon Tetrachloride | 117 | 4.264 | 4.264 | (0.859) | 284726 | 46.1687 | 46.16 |
| $ 35 | 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 245968 | 50.0578 | 50.05 |
| * 36 | 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 765274 | 50.0000 | |
| 37 | Benzene | 78 | 4.511 | 4.511 | (0.909) | 926258 | 47.0543 | 47.05 |
| 38 | Trichloroethene | 130 | 5.205 | 5.205 | (1.048) | 253674 | 46.7386 | 46.73 |
| 39 | Bromodichloromethane | 83 | 5.726 | 5.722 | (1.153) | 323221 | 46.4181 | 46.41 |
| 40 | Methyl Methacrylate | 41 | 5.606 | 5.606 | (1.341) | 195129 | 49.4504 | 49.45 |
| 41 | 2-Chloroethylvinyl ether | 63 | 6.044 | 6.048 | (1.217) | 193194 | 102.531 | 102.53 |
| 42 | 1,2-Dichloropropane | 63 | 5.433 | 5.437 | (1.094) | 250346 | 48.4517 | 48.45 |
| 43 | 2-Nitropropane | 43 | 5.966 | 5.966 | (1.427) | 66738 | 48.5782 | 48.57 |
| 44 | Dibromomethane | 93 | 5.550 | 5.550 | (1.118) | 156421 | 48.2255 | 48.22 |
| 45 | 4-Methyl-2-Pentanone | 43 | 6.322 | 6.322 | (0.824) | 454515 | 97.9815 | 97.98 |
| 46 | cis-1,3-Dichloropropene | 75 | 6.153 | 6.153 | (1.239) | 423471 | 49.3235 | 49.32 |
| * 47 | Chlorobenzene-d5 | 117 | 7.668 | 7.668 | (1.000) | 718105 | 50.0000 | |
| $ 48 | Toluene-d8 | 98 | 6.385 | 6.386 | (0.833) | 882596 | 48.6137 | 48.61 |
| 49 | Ethyl Methacrylate | 69 | 6.708 | 6.708 | (1.351) | 233775 | 42.6194 | 42.61 |
| 50 | Toluene | 91 | 6.445 | 6.445 | (0.841) | 998880 | 47.3815 | 47.38 |
| 51 | trans-1,3-Dichloropropene | 75 | 6.678 | 6.678 | (1.345) | 356578 | 49.6394 | 49.63 |
| 52 | 2-Hexanone | 43 | 7.083 | 7.083 | (0.924) | 305522 | 98.6011 | 98.60 |
| 53 | 1,1,2-Trichloroethane | 83 | 6.835 | 6.835 | (0.891) | 193376 | 47.0835 | 47.08 |
| 54 | 1,3-Dichloropropane | 76 | 6.978 | 6.978 | (0.910) | 402435 | 48.4613 | 48.46 |
| 55 | Dibromochloromethane | 129 | 7.173 | 7.173 | (0.935) | 279460 | 48.0113 | 48.01 |
| 56 | Tetrachloroethene | 164 | 6.925 | 6.925 | (0.903) | 197937 | 45.6581 | 45.65 |
| 57 | 1,2-Dibromoethane | 107 | 7.259 | 7.259 | (0.947) | 249128 | 47.4564 | 47.45 |
| 58 | 1-Chlorohexane | 55 | 7.694 | 7.694 | (1.550) | 211982 | 45.5501 | 45.55 |
| 59 | Chlorobenzene | 112 | 7.690 | 7.690 | (1.003) | 674130 | 46.7334 | 46.73 |
| 60 | 1,1,1,2-Tetrachloroethane | 131 | 7.772 | 7.773 | (1.014) | 252112 | 46.8710 | 46.87 |
| 61 | Ethylbenzene | 106 | 7.799 | 7.799 | (1.017) | 340331 | 45.7927 | 45.79 |
| 62 | m,p-Xylenes | 106 | 7.900 | 7.900 | (1.030) | 872232 | 95.1686 | 95.16 |
| 63 | o-Xylene | 106 | 8.241 | 8.237 | (1.075) | 422526 | 46.2011 | 46.20 |
| 64 | Styrene | 104 | 8.256 | 8.256 | (1.077) | 731241 | 48.5426 | 48.54 |
| 66 | Bromoform | 173 | 8.406 | 8.410 | (1.096) | 195942 | 48.2868 | 48.28 |
| 67 | Isopropylbenzene | 105 | 8.560 | 8.560 | (1.116) | 1032573 | 45.6790 | 45.67 |
| 68 | 1,1,2,2-Tetrachloroethane | 83 | 8.837 | 8.837 | (0.915) | 329570 | 46.2456 | 46.24 |
| $ 69 | 4-Bromofluorobenzene | 95 | 8.687 | 8.687 | (1.133) | 354160 | 50.5205 | 50.52 |
| * 70 | 1,4-Dichlorobenzene-d4 | 152 | 9.658 | 9.658 | (1.000) | 405289 | 50.0000 | |
| 71 | 1,2,3-Trichloropropane | 75 | 8.863 | 8.863 | (0.918) | 240888 | 47.1386 | 47.13 |
| 72 | trans-1,4-Dichloro-2-butene | 53 | 8.886 | 8.886 | (1.159) | 89627 | 51.2789 | 51.27 |
| 73 | n-Propylbenzene | 91 | 8.908 | 8.908 | (0.922) | 1239999 | 46.4940 | 46.49 |
| 74 | Bromobenzene | 156 | 8.803 | 8.803 | (0.912) | 315772 | 47.8031 | 47.80 |
| 75 | 1,3,5-Trimethylbenzene | 105 | 9.066 | 9.066 | (0.939) | 902621 | 46.1233 | 46.12 |
| 76 | 2-Chlorotoluene | 91 | 8.972 | 8.972 | (0.929) | 765561 | 45.2024 | 45.20 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 77 | 4-Chlorotoluene | 91 | 9.070 | 9.070 (0.939) | 883443 | 46.7644 | 46.76 |
| 78 | tert-Butylbenzene | 119 | 9.332 | 9.336 (0.966) | 736998 | 45.2039 | 45.20 |

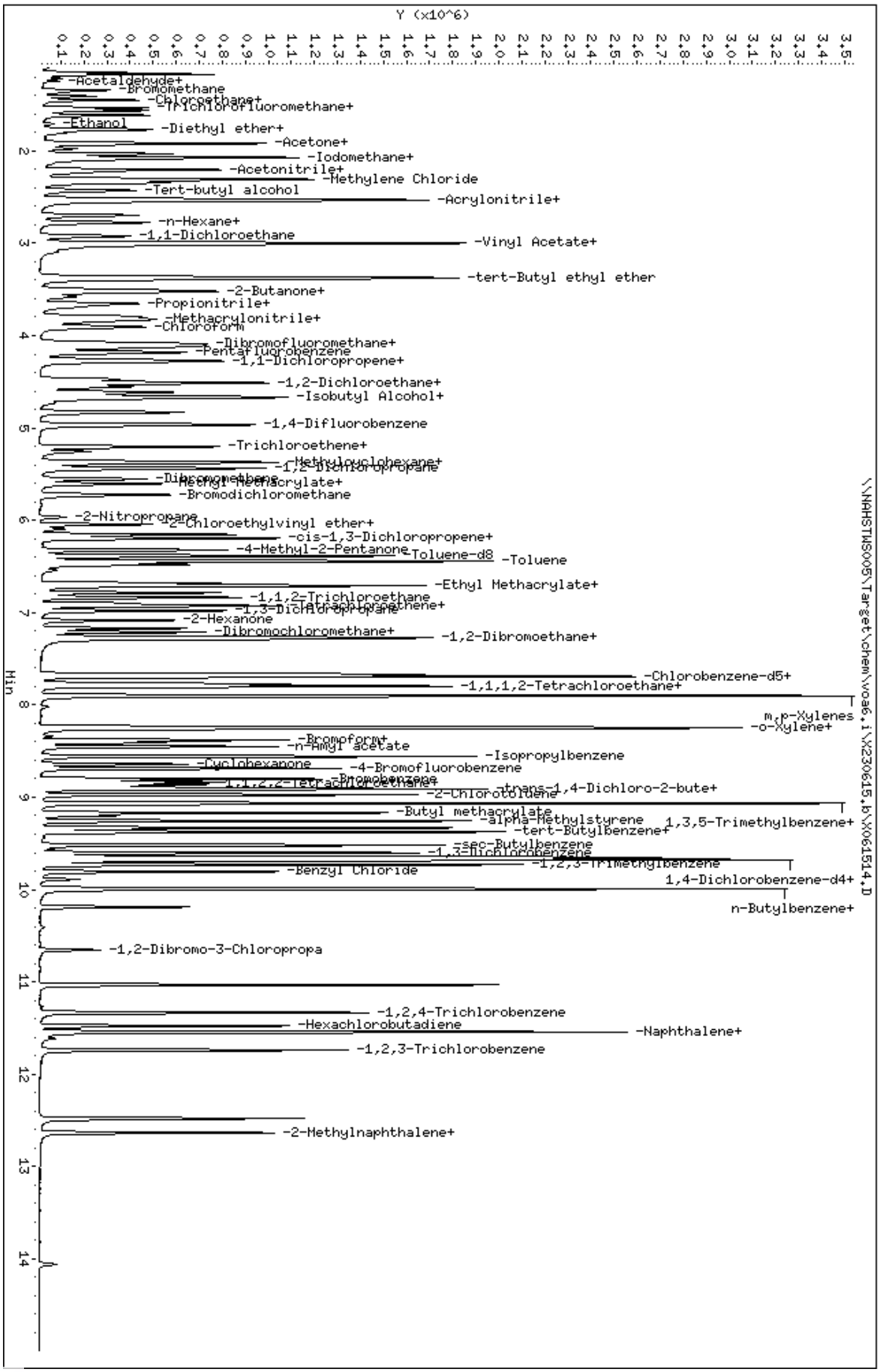
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) | |
|---|---|---|---|---|---|---|---|---|---|
| 79 | 1,2,4-Trimethylbenzene | 105 | 9.377 | 9.377 | (0.971) | 912898 | 46.2361 | 46.23 | |
| 81 | sec-Butylbenzene | 105 | 9.519 | 9.519 | (0.986) | 1040841 | 45.2652 | 45.26 | |
| 82 | p-Isopropyltoluene | 119 | 9.647 | 9.647 | (0.999) | 938869 | 46.6363 | 46.63 | |
| 83 | 1,3-Dichlorobenzene | 146 | 9.602 | 9.602 | (0.994) | 556559 | 47.3190 | 47.31 | |
| 84 | 1,4-Dichlorobenzene | 146 | 9.681 | 9.681 | (1.002) | 583574 | 46.3543 | 46.35 | |
| 86 | Benzyl Chloride | 91 | 9.804 | 9.808 | (1.279) | 626201 | 52.7942 | 52.79 | |
| 87 | n-Butylbenzene | 91 | 9.992 | 9.992 | (1.035) | 835815 | 48.7460 | 48.74 | |
| 88 | 1,2-Dichlorobenzene | 146 | 9.992 | 9.992 | (1.035) | 552785 | 47.3667 | 47.36 | |
| 89 | 1,2-Dibromo-3-Chloropropane | 155 | 10.655 | 10.655 | (1.103) | 58604 | 50.3869 | 50.38 | |
| 90 | 1,2,4-Trichlorobenzene | 180 | 11.334 | 11.334 | (1.173) | 410761 | 50.5971 | 50.59 | |
| 91 | Hexachlorobutadiene | 225 | 11.476 | 11.476 | (1.188) | 181092 | 49.6950 | 49.69 | |
| 92 | Naphthalene | 128 | 11.540 | 11.540 | (1.195) | 958210 | 52.4312 | 52.43 | |
| 93 | 1,2,3-Trichlorobenzene | 180 | 11.739 | 11.739 | (1.215) | 379747 | 50.8353 | 50.83 | |
| 146 | Methyl acetate | 43 | 2.232 | 2.232 | (0.534) | 146905 | 48.6925 | 48.69 | |
| 138 | Freon TF | 101 | 1.917 | 1.917 | (0.459) | 176578 | 49.7965 | 49.79 | |
| 141 | Cyclohexane | 56 | 4.121 | 4.121 | (0.986) | 304147 | 46.8095 | 46.80 | |
| 142 | Tetrahydrofuran | 42 | 3.844 | 3.844 | (0.919) | 72193 | 97.1828 | 97.18 | |
| 147 | Methylcyclohexane | 55 | 5.381 | 5.381 | (1.084) | 572402 | 53.5176 | 53.51 | |
| 135 | 1,4-Dioxane | 88 | 5.598 | 5.598 | (1.339) | 60399 | 977.769 | 977.76 | |
| 132 | n-Butanol | 56 | 5.253 | 5.253 | (1.256) | 115761 | 877.798 | 877.79 | |
| 131 | Methyl Acrylate | 55 | 3.690 | 3.690 | (0.883) | 218984 | 53.0445 | 53.04 | |
| 133 | Ethyl Acrylate | 55 | 5.381 | 5.381 | (1.287) | 572402 | 49.8469 | 49.84 | |
| 136 | n-Hexane | 57 | 2.772 | 2.776 | (0.663) | 235619 | 50.4611 | 50.46 | |
| 139 | Diethyl ether | 59 | 1.760 | 1.760 | (0.421) | 149426 | 46.7925 | 46.79 | |
| 148 | Tert-butyl alcohol | 59 | 2.427 | 2.431 | (0.580) | 475653 | 908.726 | 908.72 | |
| 149 | Isopropyl alcohol | 45 | 2.093 | 2.093 | (0.501) | 262728 | 909.344 | 909.34 | |
| 156 | Diisopropyl ether | 45 | 3.000 | 3.000 | (0.718) | 720807 | 47.9480 | 47.94 | |
| 160 | 2-Methylnaphthalene | 142 | 12.634 | 12.634 | (1.308) | 412966 | 51.6255 | 51.62 | |
| 166 | 1,2,3-Trimethylbenzene | 105 | 9.729 | 9.729 | (1.007) | 962880 | 49.9814 | 49.98 | |
| 167 | Ethanol | 45 | 1.707 | 1.707 | (0.408) | 42882 | 880.193 | 880.19 | |
| 172 | tert-Butyl formate | 59 | 4.612 | 4.612 | (1.103) | 377999 | 90.0470 | 90.04 | |
| 173 | 3,3-Dimethyl-1-butanol | 57 | 7.285 | 7.285 | (0.950) | 491431 | 836.719 | 836.71 | |
| 174 | tert-Amyl methyl ether | 73 | 4.665 | 4.665 | (1.116) | 767180 | 46.9237 | 46.92 | |
| 175 | tert-Butyl ethyl ether | 59 | 3.379 | 3.379 | (0.808) | 732420 | 47.0732 | 47.07 | |
| 176 | tert-Amyl alcohol | 59 | 4.612 | 4.612 | (1.103) | 377999 | 882.856 | 882.85 | |
| 151 | 4-Methyl-2-pentanol | 45 | 6.708 | 6.708 | (1.351) | 1019666 | 837.894 | 837.89 | |
| 180 | 1-Methylnaphthalene | 142 | 12.634 | 12.634 | (1.308) | 412966 | | | (a) |
| 140 | 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.279) | 197461 | 46.7466 | 46.74 | |
| 152 | Amyl alcohol | 42 | 6.899 | 6.899 | (0.900) | 134777 | 1007.33 | 1007.33 | |
| 158 | Dichlorofluoromethane | 67 | 1.535 | 1.535 | (0.367) | 346552 | 47.3072 | 47.30 | |
| 159 | Propylene oxide | 43 | 1.805 | 1.805 | (0.432) | 34962 | 77.3664 | 77.36 | |
| 161 | 3-Methyl-1-butanol | 55 | 6.899 | 6.899 | (0.900) | 128525 | 932.271 | 932.27 | |
| 162 | Butyl acrylate | 55 | 8.249 | 8.249 | (1.076) | 517977 | 48.8182 | 48.81 | |
| 163 | Butyl methacrylate | 41 | 9.167 | 9.167 | (0.949) | 356803 | 52.3425 | 52.34 | |
| 164 | Dicyclopentadiene | 66 | 9.681 | 9.681 | (1.002) | 1084753 | 47.8537 | 47.85 | |
| 182 | Epichlorohydrin | 57 | 6.093 | 6.093 | (1.227) | 86073 | 188.030 | 188.03 | |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 471183 | 91.5752 | 91.57 | |
| M 95 | Xylenes (total) | 106 | | | | 1294758 | 141.370 | 141.36 | |
| 145 | alpha-Methylstyrene | 118 | 9.257 | 9.257 | (0.958) | 464373 | 48.4344 | 48.43 | |
| 130 | Ethyl Acetate | 43 | 3.653 | 3.657 | (0.874) | 232567 | 44.7604 | 44.76 | |
| 134 | Cyclohexanone | 55 | 8.642 | 8.642 | (0.895) | 220343 | 961.261 | 961.26 | |
| 185 | Isoprene | 39 | 1.775 | 1.775 | (0.424) | 56227 | 40.5342 | 40.53 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 188 Isopropyl acetate | 43 | 4.676 | 4.676 (0.942) | 654077 | 49.4906 | 49.49 |
| 187 n-Amyl acetate | 43 | 8.451 | 8.451 (1.102) | 451123 | 46.9115 | 46.91 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| 189 n-Butyl acetate | 43 | 7.210 | 7.210 | (0.940) | 389990 | 50.7070 | 50.70 |
| 150 Allyl alcohol | 57 | 2.772 | 2.772 | (0.663) | 235619 | 1009.19 | 1009.18 |
| 194 Acetaldehyde | 44 | 1.216 | 1.216 | (0.291) | 49504 | 184.279 | 184.27(M) |
| 195 Methyl Amyl Ketone | 43 | 8.380 | 8.380 | (1.093) | 514505 | 48.6589 | 48.65 |
| 200 Dimethyl Disulfide | 94 | 6.194 | 6.194 | (0.808) | 538113 | 50.5285 | 50.52 |
| 202 Isobutylene | 41 | 1.242 | 1.242 | (0.297) | 21692 | 44.5092 | 44.50(M) |
| 205 2-Ethylhexyl Acrylate | 55 | 11.544 | 11.544 | (1.195) | 388849 | 51.8072 | 51.80 |

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\voa6.i\X230615.b\X061514.D
Date : 15-JUN-2023 15:47
Client ID: ICV
Sample Info: CCV;CCV;2;;ICV
Purge Volume: 5.0
Column phase: DB624

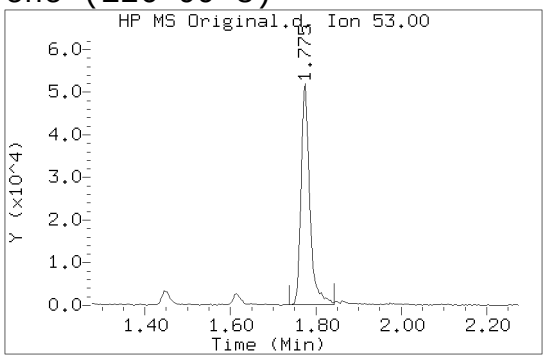
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061514.D
Inj Date : 15-JUN-2023 15:47
InstruID : voa6.i
LabSampID : ICV

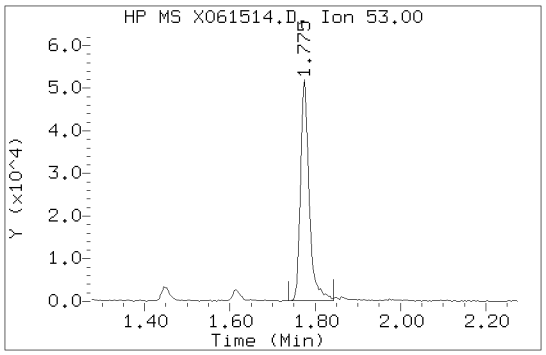
## Chloroprene (126-99-8)

Reason Code:

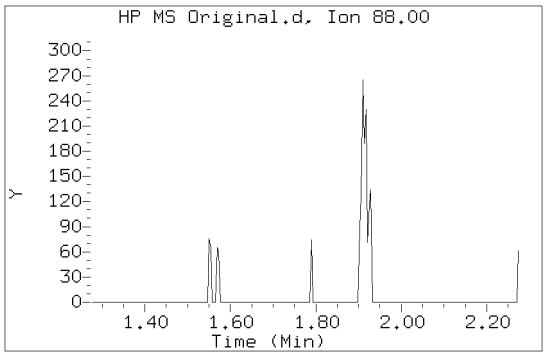
**BEFORE**
MASS
53
AREA
75864
HEIGHT
51890
20-Jun-2023
18:22
linh
pham



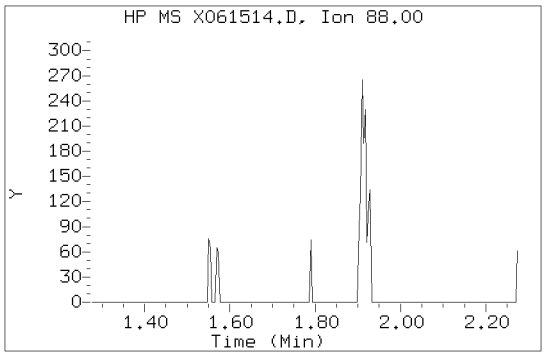

**AFTER**
MASS
53
AREA
75864
HEIGHT
51890
20-Jun-2023
18:25
linh
pham




**BEFORE**
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AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



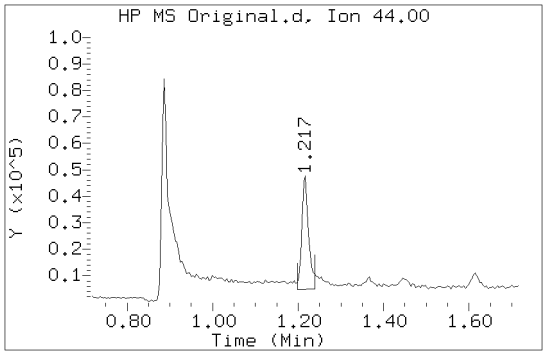

**AFTER**
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AREA
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HEIGHT
0
20-Jun-2023
18:25
linh
pham



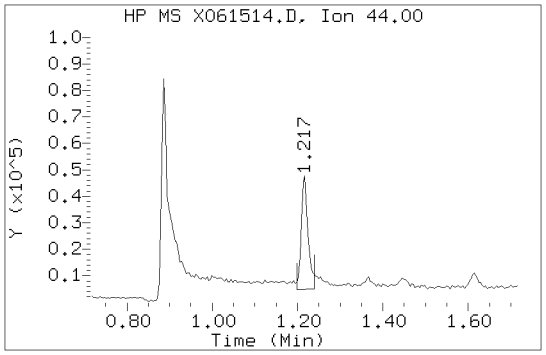

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Reason Code:

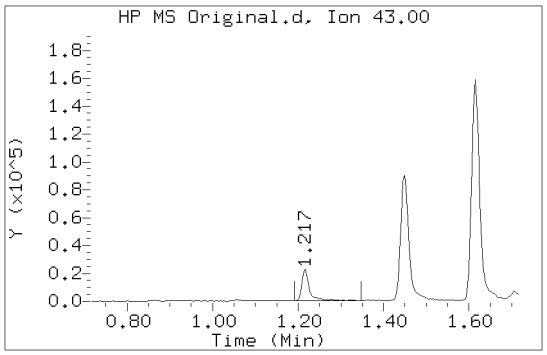
**BEFORE**
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AREA
49504
HEIGHT
42879
20-Jun-2023
18:22
linh
pham



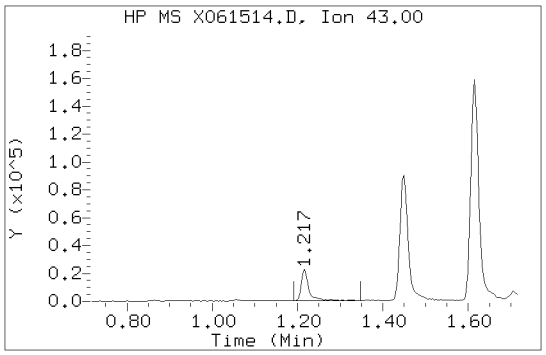

**AFTER**
MASS
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AREA
49504
HEIGHT
42879
20-Jun-2023
18:25
linh
pham




**BEFORE**
MASS
43
AREA
28030
HEIGHT
22339
20-Jun-2023
18:22
linh
pham




**AFTER**
MASS
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AREA
28030
HEIGHT
22339
20-Jun-2023
18:25
linh
pham



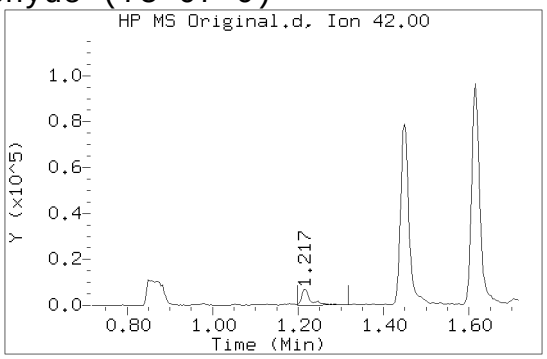
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061514.D
Inj Date : 15-JUN-2023 15:47
InstruID : voa6.i
LabSampID : ICV

## Acetaldehyde (75-07-0)

Reason Code:

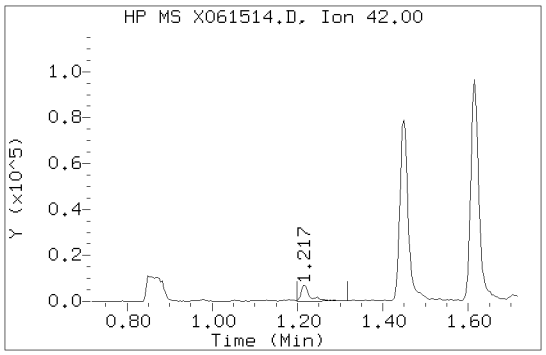
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HEIGHT
6976
20-Jun-2023
18:22
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pham




**AFTER**

MASS
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AREA
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HEIGHT
6976
20-Jun-2023
18:25
linh
pham

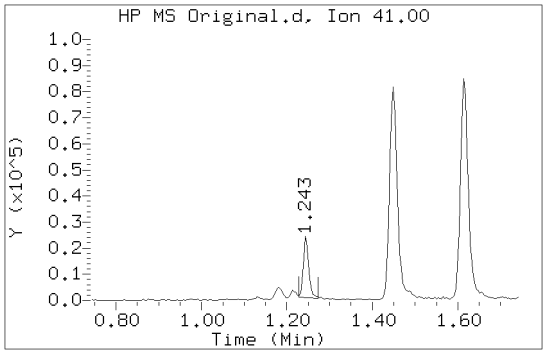



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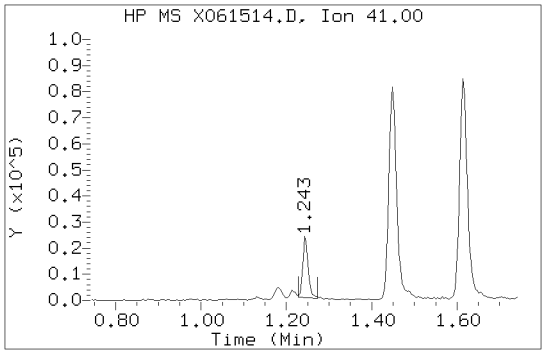
**BEFORE**

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21692
HEIGHT
23575
20-Jun-2023
18:22
linh
pham



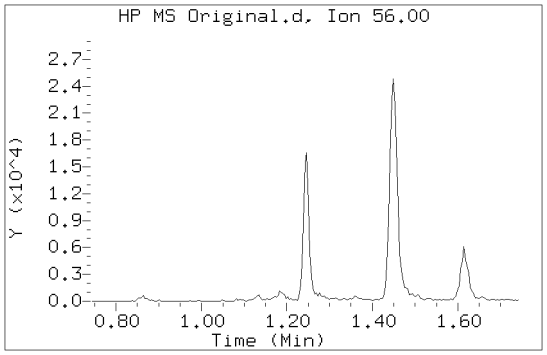

**AFTER**

MASS
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AREA
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HEIGHT
23575
20-Jun-2023
18:25
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pham



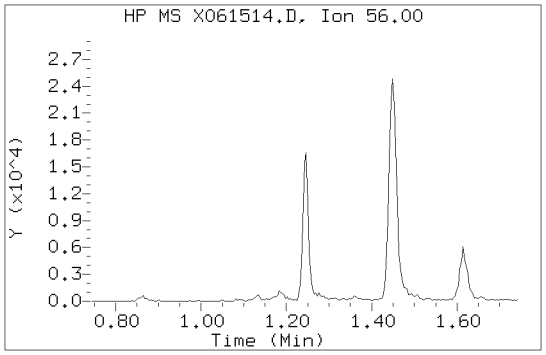

**BEFORE**

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18:22
linh
pham



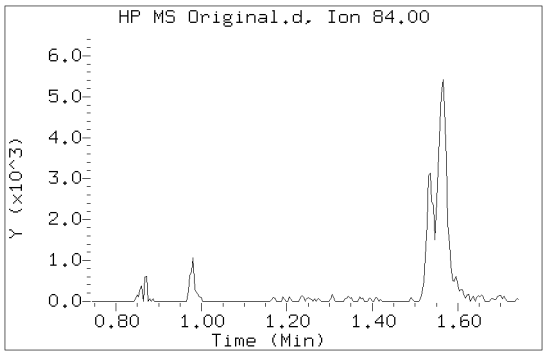

**AFTER**

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20-Jun-2023
18:25
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pham



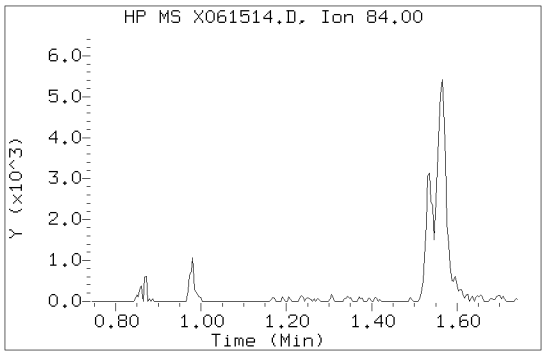

**BEFORE**

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AREA
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HEIGHT
0
20-Jun-2023
18:22
linh
pham




**AFTER**

MASS
84
AREA
0
HEIGHT
0
20-Jun-2023
18:25
linh
pham



01195595

right solutions.
right partner.

# Raw Data VOA6 439205

## Volatiles by EPA 8260

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/23/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061701.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 17-JUN-2023 11:17
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vf | 1.000 | Volumetric correction factor |
| Vi | 2.000 | Injection Volume |
| Cpnd Variable | | Local Compound Variable |

| | | | | | CONCENTRATIONS ON-COL ( ug/L) | FINAL ( ug/l) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| RT | EXP RT | REL RT | MASS | RESPONSE | | | | |
| 1 bfb | | | | | | | CAS #: 460-00-4 | |
| 8.687 | 8.889 | ( 0.000) | 95 | 113384 | | | 0.00- 100.00 | 100.00 |
| 8.687 | 8.889 | ( 0.000) | 50 | 18112 | | | 15.00- 40.00 | 15.97 |
| 8.687 | 8.889 | ( 0.000) | 75 | 50784 | | | 30.00- 60.00 | 44.79 |
| 8.687 | 8.889 | ( 0.000) | 96 | 8138 | | | 5.00- 9.00 | 7.18 |
| 8.687 | 8.889 | ( 0.000) | 173 | 589 | | | 0.00- 2.00 | 0.63 |
| 8.687 | 8.889 | ( 0.000) | 174 | 92856 | | | 50.00- 0.00 | 81.90 |
| 8.687 | 8.889 | ( 0.000) | 175 | 6663 | | | 5.00- 9.00 | 7.18 |
| 8.687 | 8.889 | ( 0.000) | 176 | 88400 | | | 95.00- 101.00 | 95.20 |
| 8.687 | 8.889 | ( 0.000) | 177 | 6303 | | | 5.00- 9.00 | 7.13 |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 15.97 |
| 75 | 30.00 - 60.00% of mass 95 | 44.79 |
| 96 | 5.00 - 9.00% of mass 95 | 7.18 |
| 173 | Less than 2.00% of mass 174 | 0.52 ( 0.63) |
| 174 | Greater than 50.00% of mass 95 | 81.90 |
| 175 | 5.00 - 9.00% of mass 174 | 5.88 ( 7.18) |
| 176 | 95.00 - 101.00% of mass 174 | 77.97 ( 95.20) |
| 177 | 5.00 - 9.00% of mass 176 | 5.56 ( 7.13) |

Data File: X061701.D
Spectrum: Scan 2159 ( 8.68)
Location of Maximum: 95.00
Number of points: 105

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 1193 | 64.00 | 415 | 93.00 | 4702 | 133.90 | 57 |
| 37.10 | 4126 | 65.20 | 194 | 94.00 | 11319 | 134.80 | 121 |
| 38.10 | 3912 | 65.90 | 91 | 95.00 | 113384 | 136.00 | 76 |
| 39.10 | 2403 | 67.00 | 319 | 96.00 | 8138 | 136.70 | 232 |
| 40.00 | 1763 | 68.00 | 9717 | 96.90 | 359 | 139.00 | 84 |
| 41.00 | 1119 | 69.00 | 11057 | 98.00 | 1394 | 140.90 | 862 |
| 42.10 | 1846 | 70.00 | 1467 | 99.00 | 93 | 141.90 | 70 |
| 43.00 | 1047 | 71.10 | 426 | 103.10 | 105 | 143.00 | 942 |
| 44.00 | 1757 | 72.00 | 390 | 104.00 | 617 | 145.80 | 185 |
| 45.10 | 839 | 73.00 | 4274 | 104.90 | 398 | 147.90 | 277 |
| 47.00 | 1177 | 74.10 | 17384 | 106.00 | 457 | 148.90 | 134 |
| 47.90 | 550 | 75.00 | 50784 | 106.90 | 259 | 149.70 | 87 |
| 49.10 | 3357 | 76.00 | 4978 | 108.90 | 167 | 152.90 | 80 |
| 50.00 | 18112 | 77.00 | 692 | 109.90 | 81 | 154.90 | 330 |
| 51.10 | 6428 | 77.80 | 362 | 110.90 | 52 | 157.00 | 190 |
| 51.90 | 267 | 78.90 | 2376 | 112.80 | 89 | 159.00 | 180 |
| 53.10 | 202 | 79.90 | 617 | 115.00 | 182 | 172.20 | 259 |
| 53.90 | 230 | 81.00 | 2624 | 115.80 | 199 | 172.80 | 589 |
| 55.00 | 3075 | 81.90 | 427 | 116.90 | 458 | 173.90 | 92856 |
| 56.00 | 1647 | 83.10 | 576 | 118.10 | 464 | 174.90 | 6663 |
| 57.10 | 3484 | 85.00 | 158 | 118.80 | 346 | 175.90 | 88400 |
| 57.90 | 395 | 85.70 | 175 | 123.80 | 79 | 176.90 | 6303 |
| 58.80 | 52 | 86.10 | 271 | 126.70 | 202 | 178.00 | 120 |
| 60.00 | 799 | 87.00 | 5097 | 127.80 | 342 | 185.90 | 250 |
| 61.10 | 4776 | 88.00 | 4521 | 128.80 | 196 | | |
| 62.00 | 4842 | 91.00 | 407 | 129.80 | 304 | | |
| 63.00 | 2784 | 92.00 | 2933 | 130.90 | 246 | | |

Data File: \\nahstws005\target\chem\voa6.i\x230617.b\x061701.d Page 1

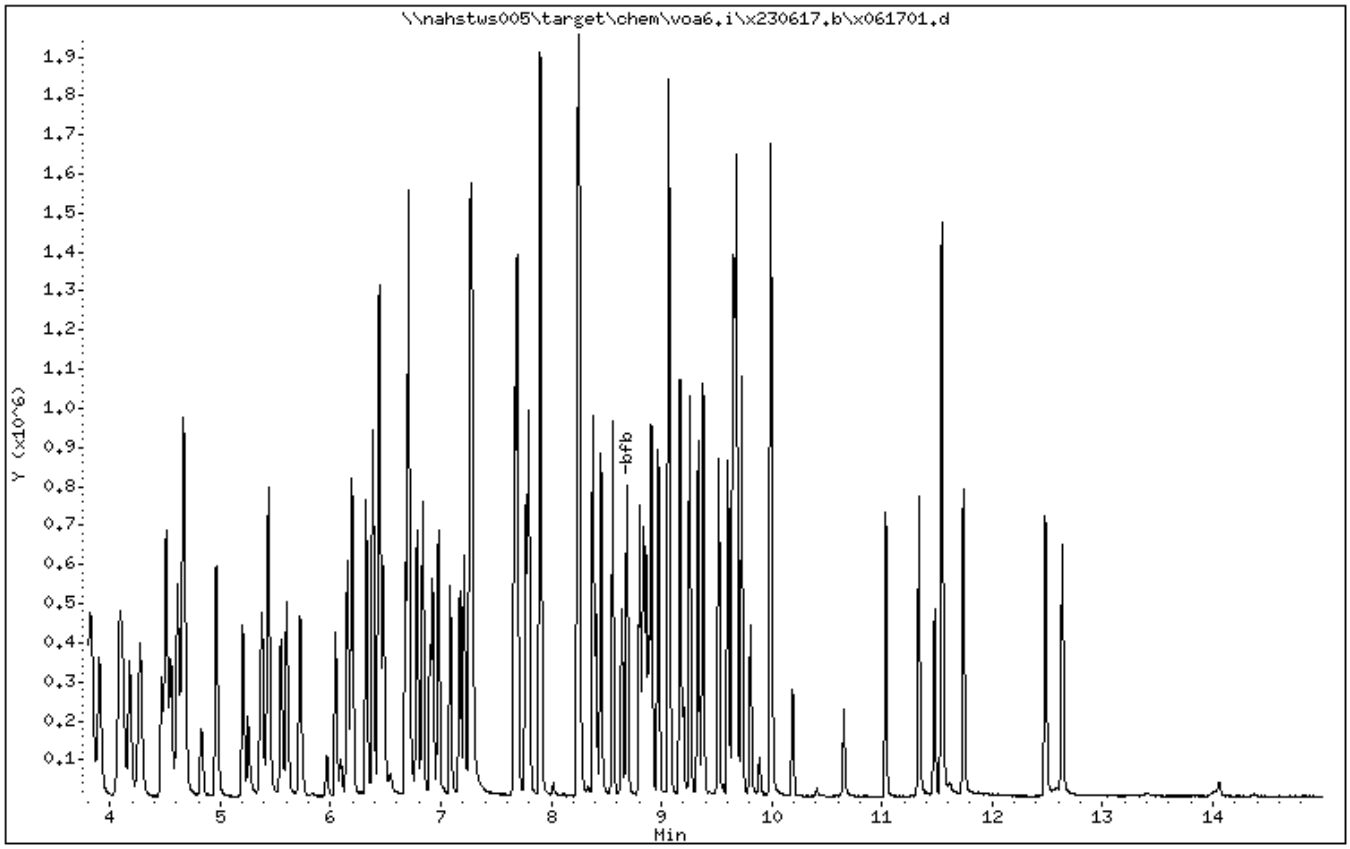
Date : 17-JUN-2023 11:17

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa6.i\x230617.b\x061701.d
Inj Date  : 17-JUN-2023 11:17
InstruID  : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061703.D  Page 1
Report Date: 21-Jun-2023 10:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061703.D
Lab Smp Id: CCV  Client Smp ID: CCV
Inj Date  : 17-JUN-2023 11:58
Operator  : PC  Inst ID: voa6.i
Smp Info  : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\8260W.m
Meth Date : 21-Jun-2023 10:01 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 2  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.178 | 4.178 | (1.000) | 464761 | 50.0000 | |
| 135 | 1,4-Dioxane | 88 | 5.595 | 5.595 | (1.339) | 60031 | 1000.00 | 1065.82 |
| 140 | 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.280) | 185284 | 50.0000 | 48.10 |
| 25 | Methacrylonitrile | 41 | 3.821 | 3.821 | (0.915) | 201373 | 50.0000 | 52.51 |
| 12 | Isobutyl Alcohol | 43 | 4.676 | 4.676 | (1.119) | 626781 | 1000.00 | 1034.29 |
| 13 | Acetonitrile | 39 | 2.198 | 2.198 | (0.526) | 226381 | 500.000 | 502.18 |
| 14 | Allyl Chloride | 41 | 2.202 | 2.202 | (0.527) | 508556 | 50.0000 | 49.89 |
| 4 | Propionitrile | 54 | 3.649 | 3.649 | (0.873) | 302833 | 500.000 | 538.77 |
| 72 | trans-1,4-Dichloro-2-butene | 53 | 8.886 | 8.886 | (1.159) | 87036 | 50.0000 | 52.62 |
| 194 | Acetaldehyde | 44 | 1.216 | 1.216 | (0.291) | 49547 | 200.000 | 202.61(M) |
| 23 | Chloroprene | 53 | 1.775 | 1.775 | (0.425) | 72682 | 50.0000 | 47.05(M) |
| 130 | Ethyl Acetate | 43 | 3.653 | 3.653 | (0.874) | 234896 | 50.0000 | 49.58 |
| 40 | Methyl Methacrylate | 41 | 5.602 | 5.602 | (1.341) | 187136 | 50.0000 | 52.01 |
| 49 | Ethyl Methacrylate | 69 | 6.708 | 6.708 | (1.351) | 231687 | 50.0000 | 44.97 |
| 131 | Methyl Acrylate | 55 | 3.687 | 3.687 | (0.882) | 216357 | 50.0000 | 57.47 |
| 136 | n-Hexane | 57 | 2.772 | 2.772 | (0.664) | 237109 | 50.0000 | 55.37 |
| 156 | Diisopropyl ether | 45 | 3.001 | 3.001 | (0.718) | 674449 | 50.0000 | 49.20 |
| 166 | 1,2,3-Trimethylbenzene | 105 | 9.729 | 9.729 | (1.007) | 851430 | 50.0000 | 46.46 |
| 2 | Dichlorodifluoromethane | 85 | 0.976 | 0.976 | (0.234) | 203461 | 50.0000 | 50.83 |
| 3 | Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 238222 | 50.0000 | 48.51 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5 Vinyl Chloride | 62 | 1.145 | 1.145 (0.274) | 232611 | 50.0000 | 47.65 |
| 6 Bromomethane | 94 | 1.344 | 1.344 (0.322) | 133971 | 50.0000 | 47.81 |

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061703.D Page 2
Report Date: 21-Jun-2023 10:01

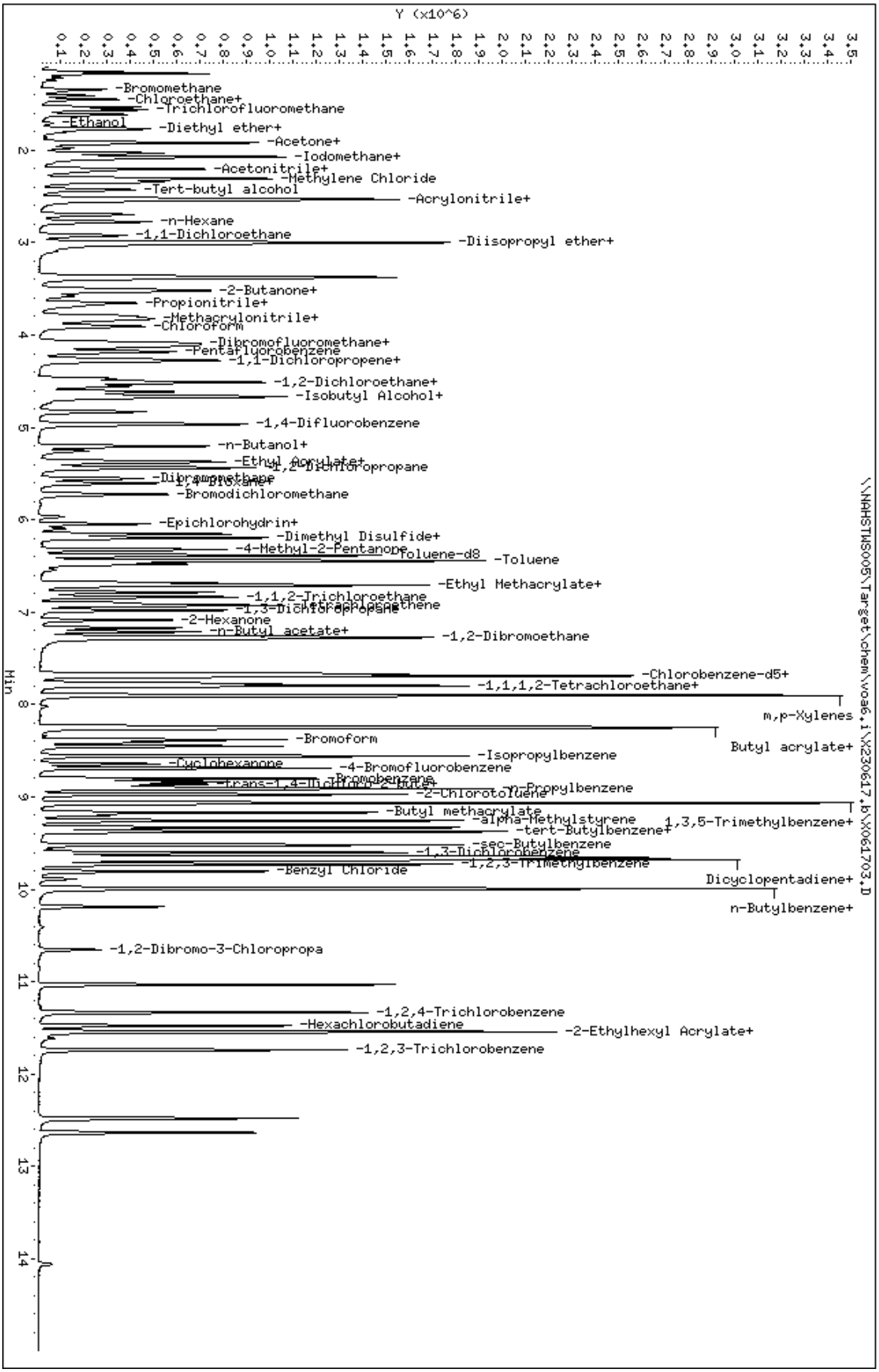
| | | QUANT SIG | | | | | AMOUNTS | |
|---|---|---|---|---|---|---|---|---|
| | Compounds | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT ( ug/l) | ON-COL ( ug/l) |
| | 7 Chloroethane | 64 | 1.407 | 1.407 | (0.337) | 150589 | 50.0000 | 50.47 |
| | 8 Trichlorofluoromethane | 101 | 1.565 | 1.565 | (0.375) | 290450 | 50.0000 | 50.07 |
| | 9 Acrolein | 56 | 1.449 | 1.449 | (0.347) | 25806 | 100.000 | 89.48 |
| | 10 Acetone | 43 | 1.973 | 1.973 | (0.472) | 106509 | 100.000 | 87.85 |
| | 11 1,1-Dichloroethene | 96 | 1.917 | 1.917 | (0.459) | 169535 | 50.0000 | 46.59 |
| | 15 Iodomethane | 142 | 2.030 | 2.030 | (0.486) | 556530 | 100.000 | 92.46 |
| | 16 Acrylonitrile | 53 | 2.536 | 2.536 | (0.607) | 147443 | 100.000 | 99.94 |
| | 17 Methylene Chloride | 84 | 2.307 | 2.307 | (0.552) | 235847 | 50.0000 | 45.88 |
| | 18 Methyl tert-butyl ether | 73 | 2.536 | 2.536 | (0.607) | 633759 | 50.0000 | 49.90 |
| | 19 Carbon Disulfide | 76 | 2.071 | 2.071 | (0.496) | 1216538 | 100.000 | 93.89 |
| | 20 trans-1,2-Dichloroethene | 96 | 2.528 | 2.528 | (0.605) | 207315 | 50.0000 | 47.61 |
| | 21 Vinyl Acetate | 43 | 2.997 | 2.997 | (0.717) | 1280030 | 100.000 | 110.14 |
| | 22 1,1-Dichloroethane | 63 | 2.922 | 2.922 | (0.699) | 384699 | 50.0000 | 49.04 |
| | 24 2-Butanone | 43 | 3.578 | 3.578 | (0.856) | 158601 | 100.000 | 103.69 |
| | 26 2,2-Dichloropropane | 77 | 3.507 | 3.507 | (0.839) | 325922 | 50.0000 | 52.65 |
| | 27 cis-1,2-Dichloroethene | 96 | 3.525 | 3.525 | (0.844) | 239733 | 50.0000 | 47.74 |
| | 28 Chloroform | 83 | 3.908 | 3.908 | (0.935) | 398291 | 50.0000 | 47.17 |
| | 29 Bromochloromethane | 128 | 3.795 | 3.795 | (0.908) | 127279 | 50.0000 | 47.57 |
| $ | 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.981) | 217119 | 50.0000 | 52.32 |
| | 31 1,1,1-Trichloroethane | 97 | 4.080 | 4.080 | (0.977) | 330573 | 50.0000 | 48.44 |
| | 32 1,1-Dichloropropene | 75 | 4.279 | 4.279 | (0.862) | 295660 | 50.0000 | 49.08 |
| | 33 1,2-Dichloroethane | 62 | 4.556 | 4.556 | (0.918) | 310481 | 50.0000 | 51.44 |
| | 34 Carbon Tetrachloride | 117 | 4.264 | 4.264 | (0.859) | 279547 | 50.0000 | 48.26 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.070) | 242319 | 50.0000 | 54.15 |
| * | 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 718789 | 50.0000 | |
| | 37 Benzene | 78 | 4.511 | 4.511 | (0.909) | 889887 | 50.0000 | 48.13 |
| | 38 Trichloroethene | 130 | 5.205 | 5.205 | (1.048) | 242589 | 50.0000 | 47.58 |
| | 39 Bromodichloromethane | 83 | 5.722 | 5.722 | (1.153) | 315767 | 50.0000 | 48.28 |
| | 41 2-Chloroethylvinyl ether | 63 | 6.044 | 6.044 | (1.217) | 185638 | 100.000 | 104.89 |
| | 42 1,2-Dichloropropane | 63 | 5.433 | 5.433 | (1.094) | 240932 | 50.0000 | 49.64 |
| | 44 Dibromomethane | 93 | 5.550 | 5.550 | (1.118) | 151093 | 50.0000 | 49.59 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.322 | 6.322 | (0.824) | 450633 | 100.000 | 102.67 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.153 | 6.153 | (1.239) | 409799 | 50.0000 | 50.81 |
| * | 47 Chlorobenzene-d5 | 117 | 7.668 | 7.668 | (1.000) | 679450 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.386 | 6.386 | (0.833) | 830445 | 50.0000 | 48.34 |
| | 50 Toluene | 91 | 6.446 | 6.446 | (0.841) | 965878 | 50.0000 | 48.42 |
| | 51 trans-1,3-Dichloropropene | 75 | 6.678 | 6.678 | (1.345) | 346897 | 50.0000 | 51.41 |
| | 52 2-Hexanone | 43 | 7.087 | 7.087 | (0.924) | 301666 | 100.000 | 102.89 |
| | 53 1,1,2-Trichloroethane | 83 | 6.839 | 6.839 | (0.892) | 189838 | 50.0000 | 48.85 |
| | 54 1,3-Dichloropropane | 76 | 6.978 | 6.978 | (0.910) | 393905 | 50.0000 | 50.13 |
| | 55 Dibromochloromethane | 129 | 7.173 | 7.173 | (0.935) | 271947 | 50.0000 | 49.37 |
| | 56 Tetrachloroethene | 164 | 6.925 | 6.925 | (0.903) | 192409 | 50.0000 | 46.90 |
| | 57 1,2-Dibromoethane | 107 | 7.259 | 7.259 | (0.947) | 246151 | 50.0000 | 49.55 |
| | 58 1-Chlorohexane | 55 | 7.694 | 7.694 | (1.550) | 218356 | 50.0000 | 49.95 |
| | 59 Chlorobenzene | 112 | 7.690 | 7.690 | (1.003) | 655412 | 50.0000 | 48.02 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 7.773 | 7.773 | (1.014) | 244322 | 50.0000 | 48.00 |
| | 61 Ethylbenzene | 106 | 7.799 | 7.799 | (1.017) | 333110 | 50.0000 | 47.37 |
| | 62 m,p-Xylenes | 106 | 7.900 | 7.900 | (1.030) | 854737 | 100.000 | 98.56 |
| | 63 o-Xylene | 106 | 8.241 | 8.241 | (1.075) | 414845 | 50.0000 | 47.94 |
| | 64 Styrene | 104 | 8.256 | 8.256 | (1.077) | 713133 | 50.0000 | 50.03 |
| | 66 Bromoform | 173 | 8.406 | 8.406 | (1.096) | 190917 | 50.0000 | 49.72 |
| | 67 Isopropylbenzene | 105 | 8.560 | 8.560 | (1.116) | 1014690 | 50.0000 | 47.44 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 68 1,1,2,2-Tetrachloroethane | 83 | 8.837 | 8.837 (0.915) | 322003 | 50.0000 | 47.50 |
| $ | 69 4-Bromofluorobenzene | 95 | 8.687 | 8.687 (1.133) | 340530 | 50.0000 | 51.34 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 | (1.000) | 385495 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 8.863 | 8.863 | (0.917) | 233366 | 50.0000 | 48.01(M) |
| | 73 n-Propylbenzene | 91 | 8.908 | 8.908 | (0.922) | 1221754 | 50.0000 | 48.16 |
| | 74 Bromobenzene | 156 | 8.803 | 8.803 | (0.911) | 300200 | 50.0000 | 47.77 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.066 | 9.066 | (0.938) | 890488 | 50.0000 | 47.83 |
| | 76 2-Chlorotoluene | 91 | 8.972 | 8.972 | (0.929) | 749109 | 50.0000 | 46.50 |
| | 77 4-Chlorotoluene | 91 | 9.066 | 9.066 | (0.938) | 871352 | 50.0000 | 48.49 |
| | 78 tert-Butylbenzene | 119 | 9.332 | 9.332 | (0.966) | 728234 | 50.0000 | 46.95 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.377 | 9.377 | (0.971) | 900947 | 50.0000 | 47.97 |
| | 81 sec-Butylbenzene | 105 | 9.519 | 9.519 | (0.985) | 1049132 | 50.0000 | 47.96 |
| | 82 p-Isopropyltoluene | 119 | 9.647 | 9.647 | (0.998) | 927998 | 50.0000 | 48.46 |
| | 83 1,3-Dichlorobenzene | 146 | 9.602 | 9.602 | (0.994) | 533272 | 50.0000 | 47.66 |
| | 84 1,4-Dichlorobenzene | 146 | 9.681 | 9.681 | (1.002) | 562254 | 50.0000 | 46.95 |
| | 87 n-Butylbenzene | 91 | 9.992 | 9.992 | (1.034) | 843275 | 50.0000 | 51.70 |
| | 88 1,2-Dichlorobenzene | 146 | 9.992 | 9.992 | (1.034) | 537188 | 50.0000 | 48.39 |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 10.655 | 10.655 | (1.103) | 56147 | 50.0000 | 50.75 |
| | 90 1,2,4-Trichlorobenzene | 180 | 11.334 | 11.334 | (1.173) | 392910 | 50.0000 | 50.88 |
| | 91 Hexachlorobutadiene | 225 | 11.480 | 11.480 | (1.188) | 177873 | 50.0000 | 51.31 |
| | 92 Naphthalene | 128 | 11.540 | 11.540 | (1.194) | 917991 | 50.0000 | 52.80 |
| | 93 1,2,3-Trichlorobenzene | 180 | 11.739 | 11.739 | (1.215) | 366518 | 50.0000 | 51.58 |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 447048 | 100.000 | (a) |
| | 141 Cyclohexane | 56 | 4.121 | 4.121 | (0.987) | 297119 | 50.0000 | 50.15 |
| | 138 Freon TF | 101 | 1.917 | 1.917 | (0.459) | 172427 | 50.0000 | 53.25 |
| | 147 Methylcyclohexane | 55 | 5.377 | 5.377 | (1.083) | 499944 | 50.0000 | 49.76 |
| | 146 Methyl Acetate | 43 | 2.236 | 2.236 | (0.535) | 143944 | 50.0000 | 52.32 |
| | 148 Tert-Butyl alcohol | 59 | 2.431 | 2.431 | (0.582) | 466930 | 1000.00 | 978.35 |
| | 149 Isopropyl Alcohol | 45 | 2.093 | 2.093 | (0.501) | 266084 | 1000.00 | 1010.05 |

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\voa6.i\X230617.b\X061703.D
Date : 17-JUN-2023 11:58
Client ID: CCV
Sample Info: CCV;CCV;2;;
Purge Volume: 5.0
Column phase: DB624

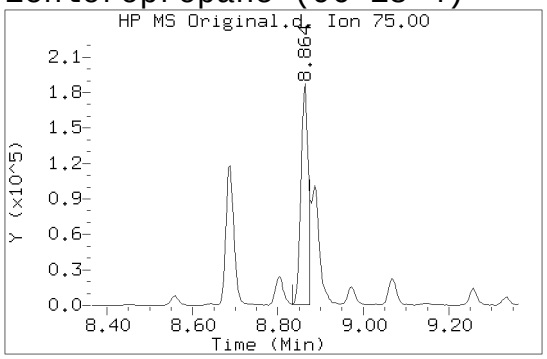
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061703.D
Inj Date : 17-JUN-2023 11:58
InstruID : voa6.i
LabSampID : CCV

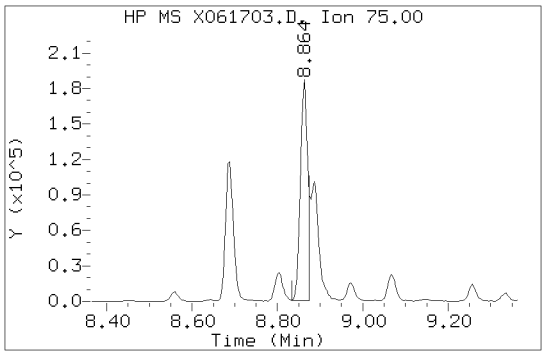
## 1,2,3-Trichloropropane (96-18-4)

Reason Code:

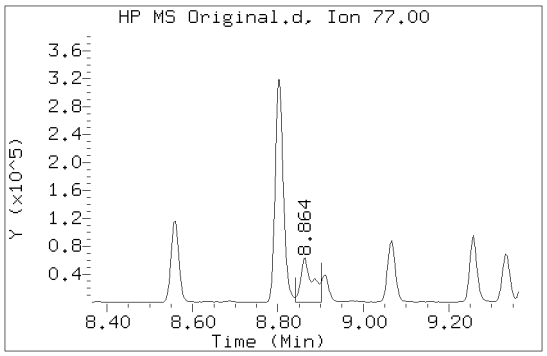
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AREA
233366
HEIGHT
187180
19-Jun-2023
12:02



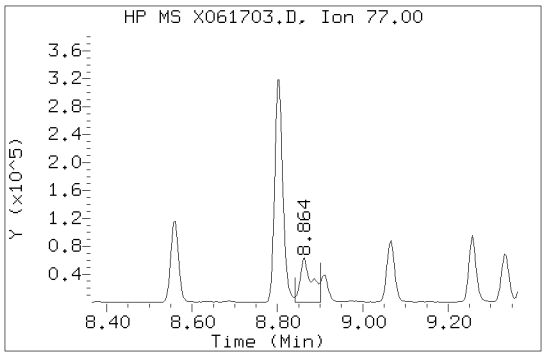

**AFTER**
MASS
75
AREA
233366
HEIGHT
187180
21-Jun-2023
10:01




**BEFORE**
MASS
77
AREA
127091
HEIGHT
63447
19-Jun-2023
12:02



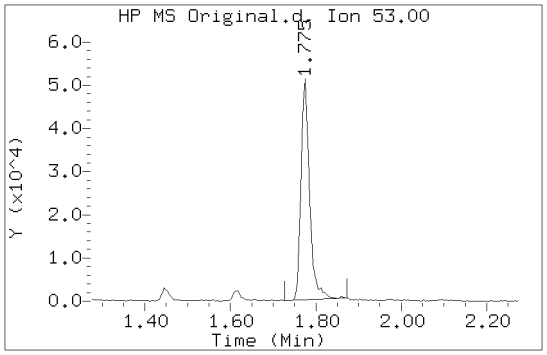

**AFTER**
MASS
77
AREA
127091
HEIGHT
63447
21-Jun-2023
10:01



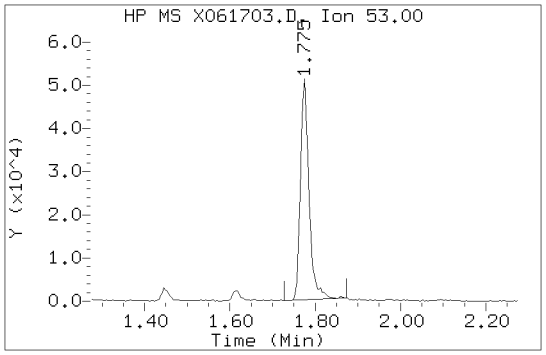

## Chloroprene (126-99-8)

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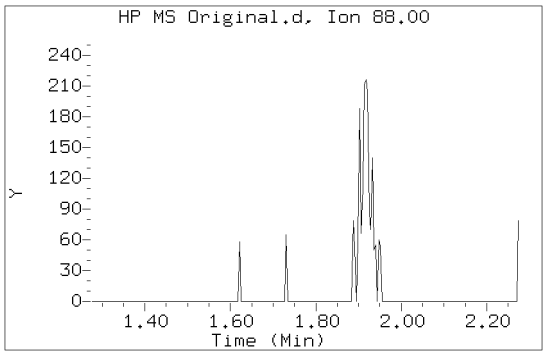
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AREA
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HEIGHT
51120
19-Jun-2023
12:02



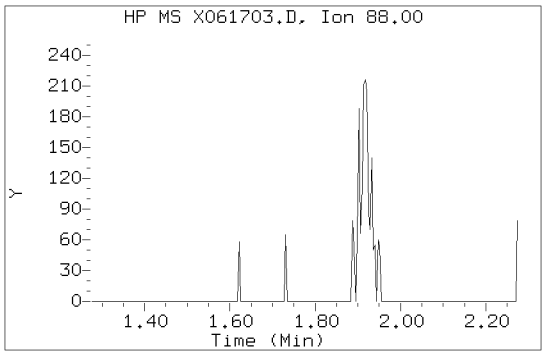

**AFTER**
MASS
53
AREA
72682
HEIGHT
51120
21-Jun-2023
10:01




**BEFORE**
MASS
88
AREA
0
HEIGHT
0
19-Jun-2023
12:02




**AFTER**
MASS
88
AREA
0
HEIGHT
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21-Jun-2023
10:01

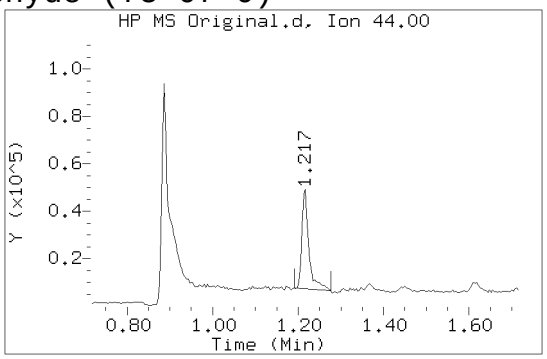


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InstruID : voa6.i
LabSampID : CCV

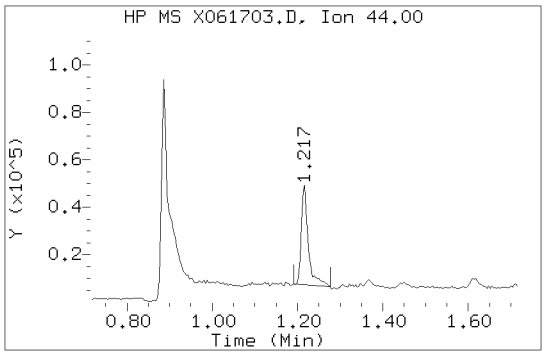
Acetaldehyde (75-07-0)

Reason Code:

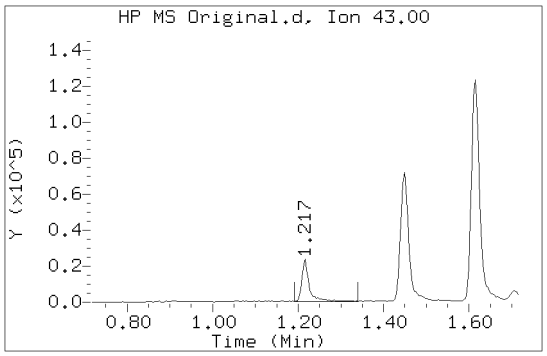
BEFORE
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AREA
49547
HEIGHT
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19-Jun-2023
12:02



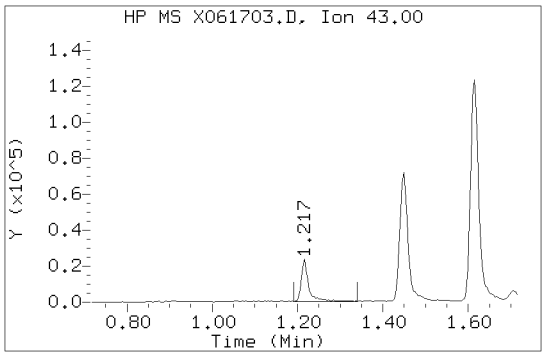

AFTER
MASS
44
AREA
49547
HEIGHT
42008
21-Jun-2023
10:01



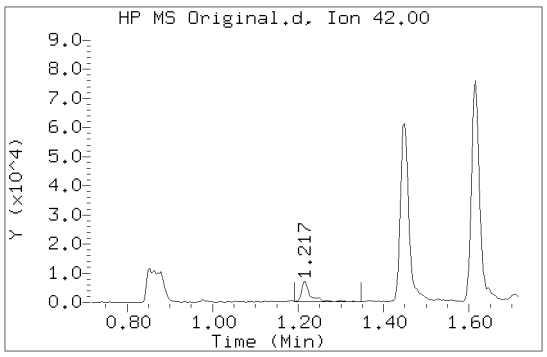

BEFORE
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AREA
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HEIGHT
23418
19-Jun-2023
12:02



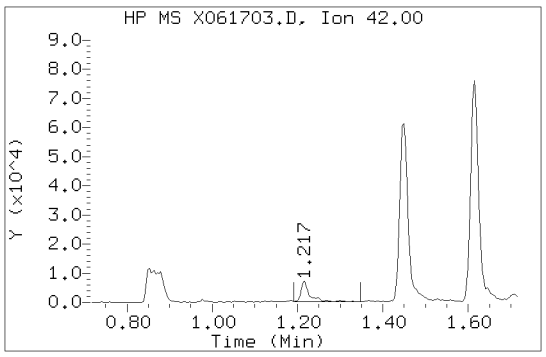

AFTER
MASS
43
AREA
29143
HEIGHT
23418
21-Jun-2023
10:01




BEFORE
MASS
42
AREA
10160
HEIGHT
7121
19-Jun-2023
12:02




AFTER
MASS
42
AREA
10160
HEIGHT
7121
21-Jun-2023
10:01



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061704.D  Page 1
Report Date: 20-Jun-2023 17:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061704.D
Lab Smp Id: CCB  Client Smp ID: CCB
Inj Date  : 17-JUN-2023 12:19
Operator  : PC  Inst ID: voa6.i
Smp Info  : CCB;CCB;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\8260W.m
Meth Date : 20-Jun-2023 17:15 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.181 | 4.178 | (1.000) | 508212 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.102 | 4.099 | (0.981) | 224933 | 49.5556 | 49.55 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 251979 | 51.4571 | 51.45 |
| * 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 740367 | 50.0000 | |
| * 47 Chlorobenzene-d5 | 117 | 7.667 | 7.668 | (1.000) | 643235 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.385 | 6.386 | (0.833) | 873457 | 53.7102 | 53.71 |
| $ 69 4-Bromofluorobenzene | 95 | 8.691 | 8.687 | (1.133) | 296457 | 47.1763 | 47.17 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 | (1.000) | 312929 | 50.0000 | |

01195610

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061704.D



Date : 17-JUN-2023 12:19

Client ID: CCB

Instrument: voa6.i

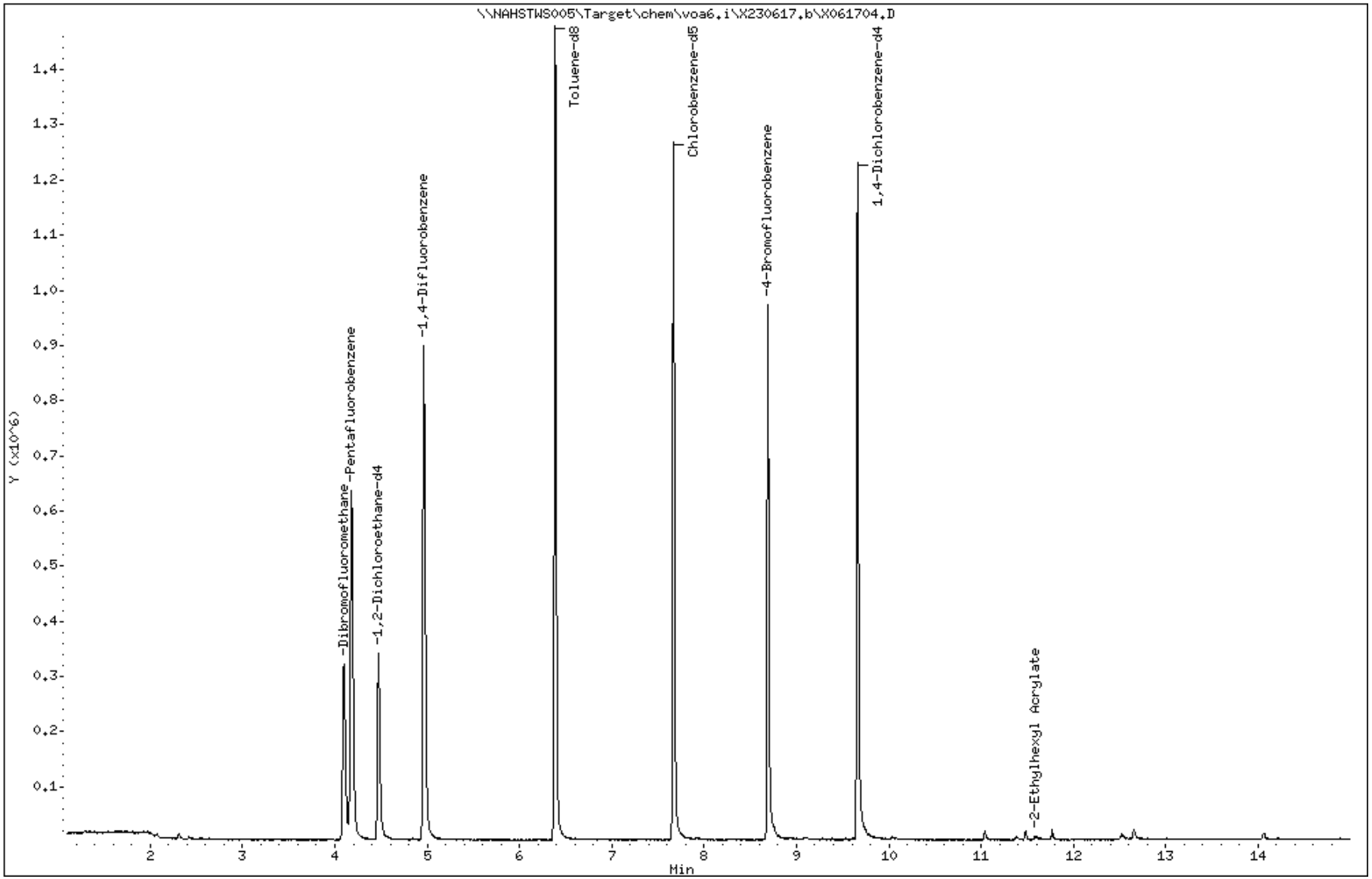
Sample Info: CCB;CCB;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date  : 17-JUN-2023 12:19
InstruID  : voa6.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061705.D
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Inj Date : 17-JUN-2023 12:40
Operator : PC Inst ID: voa6.i
Smp Info : VLCSW-230617;VLCSW-230617;3;;LCS
Misc Info : V6;WATER;0;1;
Comment :
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Meth Date : 20-Jun-2023 17:15 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.181 | 4.178 | (1.000) | 467611 | 50.0000 | |
| 135 | 1,4-Dioxane | 88 | 5.598 | 5.595 | (1.339) | 23081 | 407.296 | 407.29(a) |
| 140 | 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.279) | 73231 | 18.8979 | 18.89 |
| 25 | Methacrylonitrile | 41 | 3.829 | 3.821 | (0.916) | 79725 | 20.6632 | 20.66 |
| 12 | Isobutyl Alcohol | 43 | 4.676 | 4.676 | (1.118) | 260040 | 426.493 | 426.49 |
| 13 | Acetonitrile | 39 | 2.202 | 2.198 | (0.527) | 97445 | 214.848 | 214.84 |
| 14 | Allyl Chloride | 41 | 2.202 | 2.202 | (0.527) | 210316 | 20.5091 | 20.50 |
| 4 | Propionitrile | 54 | 3.653 | 3.649 | (0.874) | 119398 | 211.129 | 211.12(a) |
| 72 | trans-1,4-Dichloro-2-butene | 53 | 8.889 | 8.886 | (1.159) | 33160 | 19.9951 | 19.99 |
| 194 | Acetaldehyde | 44 | 1.216 | 1.216 | (0.291) | 16555 | 64.9855 | 64.98(M) |
| 23 | Chloroprene | 53 | 1.775 | 1.775 | (0.424) | 29220 | 18.8005 | 18.80(M) |
| 130 | Ethyl Acetate | 43 | 3.660 | 3.653 | (0.875) | 102020 | 21.4033 | 21.40 |
| 40 | Methyl Methacrylate | 41 | 5.606 | 5.602 | (1.341) | 76478 | 21.1268 | 21.12 |
| 49 | Ethyl Methacrylate | 69 | 6.708 | 6.708 | (1.351) | 99236 | 19.0391 | 19.03 |
| 131 | Methyl Acrylate | 55 | 3.698 | 3.687 | (0.884) | 80516 | 21.2598 | 21.25 |
| 136 | n-Hexane | 57 | 2.775 | 2.772 | (0.664) | 88097 | 21.1399 | 21.13 |
| 156 | Diisopropyl ether | 45 | 3.000 | 3.001 | (0.718) | 279675 | 20.2793 | 20.27 |
| 166 | 1,2,3-Trimethylbenzene | 105 | 9.729 | 9.729 | (1.007) | 361327 | 19.5881 | 19.58 |
| 2 | Dichlorodifluoromethane | 85 | 0.976 | 0.976 | (0.234) | 79215 | 19.8731 | 19.87 |
| 3 | Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 99872 | 20.8166 | 20.81 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5 Vinyl Chloride | 62 | 1.149 | 1.145 (0.275) | 94897 | 19.3237 | 19.32 |
| 6 Bromomethane | 94 | 1.343 | 1.344 (0.321) | 57089 | 20.2520 | 20.25 |

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061705.D Page 2
Report Date: 20-Jun-2023 17:15

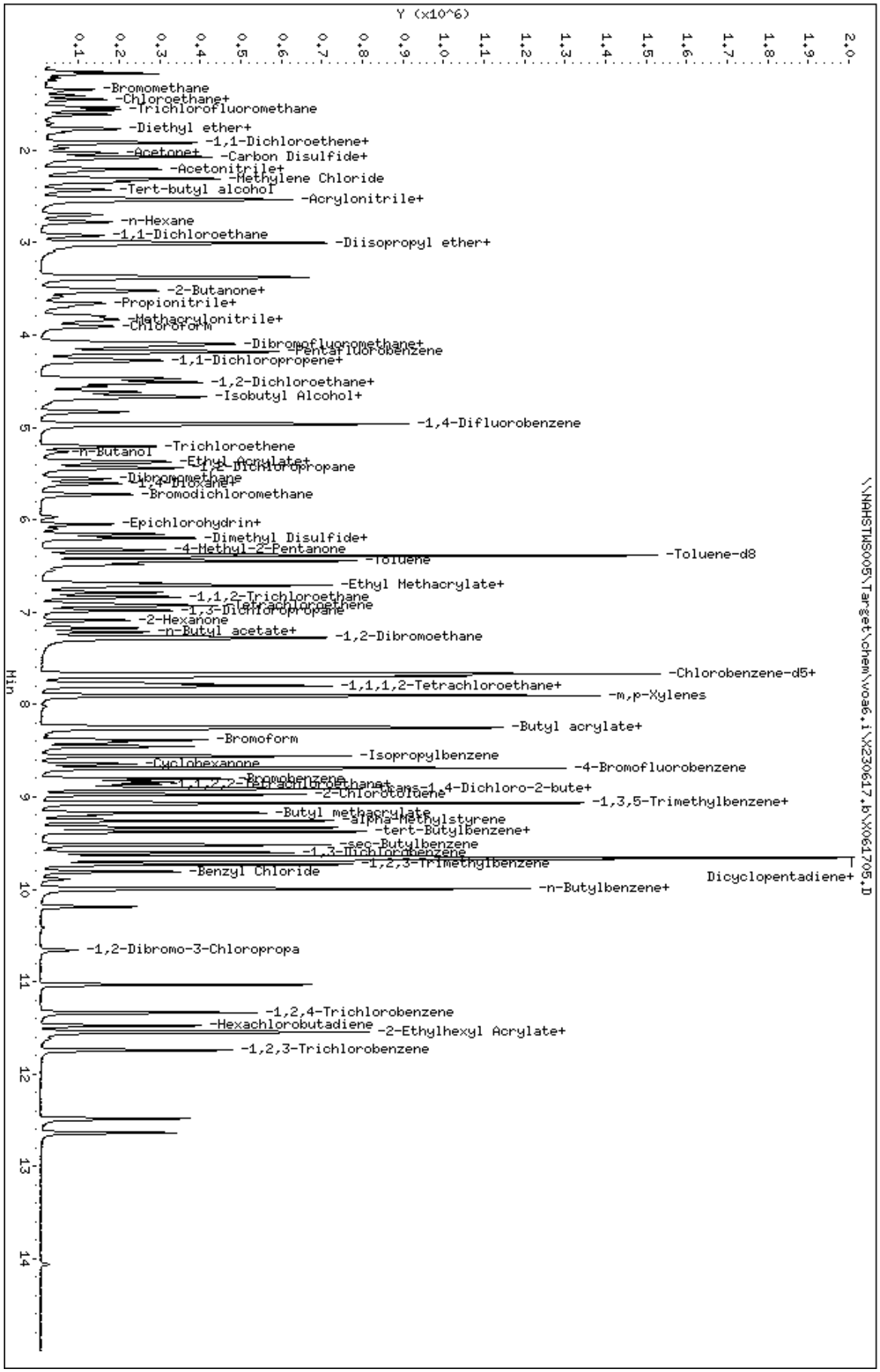
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 7 Chloroethane | 64 | 1.407 | 1.407 | (0.337) | 62823 | 20.9280 | 20.92 |
| | 8 Trichlorofluoromethane | 101 | 1.565 | 1.565 | (0.374) | 115016 | 19.7086 | 19.70 |
| | 9 Acrolein | 56 | 1.448 | 1.449 | (0.346) | 12204 | 42.0597 | 42.05 |
| | 10 Acetone | 43 | 1.977 | 1.973 | (0.473) | 45164 | 36.8694 | 36.86 |
| | 11 1,1-Dichloroethene | 96 | 1.917 | 1.917 | (0.459) | 69235 | 18.9118 | 18.91 |
| | 15 Iodomethane | 142 | 2.029 | 2.030 | (0.485) | 179227 | 31.3955 | 31.39 |
| | 16 Acrylonitrile | 53 | 2.539 | 2.536 | (0.607) | 54413 | 36.6593 | 36.65 |
| | 17 Methylene Chloride | 84 | 2.307 | 2.307 | (0.552) | 99748 | 19.2893 | 19.28 |
| | 18 Methyl tert-butyl ether | 73 | 2.536 | 2.536 | (0.606) | 258456 | 20.2274 | 20.22 |
| | 19 Carbon Disulfide | 76 | 2.071 | 2.071 | (0.495) | 488245 | 37.4549 | 37.45 |
| | 20 trans-1,2-Dichloroethene | 96 | 2.532 | 2.528 | (0.606) | 82248 | 18.7753 | 18.77 |
| | 21 Vinyl Acetate | 43 | 3.000 | 2.997 | (0.718) | 516060 | 44.1375 | 44.13 |
| | 22 1,1-Dichloroethane | 63 | 2.922 | 2.922 | (0.699) | 155287 | 19.6776 | 19.67 |
| | 24 2-Butanone | 43 | 3.585 | 3.578 | (0.857) | 56151 | 36.4881 | 36.48 |
| | 26 2,2-Dichloropropane | 77 | 3.510 | 3.507 | (0.840) | 130903 | 21.0174 | 21.01 |
| | 27 cis-1,2-Dichloroethene | 96 | 3.529 | 3.525 | (0.844) | 97832 | 19.3663 | 19.36 |
| | 28 Chloroform | 83 | 3.904 | 3.908 | (0.934) | 163680 | 19.2705 | 19.27 |
| | 29 Bromochloromethane | 128 | 3.799 | 3.795 | (0.909) | 52642 | 19.5556 | 19.55 |
| $ | 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.980) | 227288 | 54.4563 | 54.45 |
| | 31 1,1,1-Trichloroethane | 97 | 4.084 | 4.080 | (0.977) | 131438 | 19.1460 | 19.14 |
| | 32 1,1-Dichloropropene | 75 | 4.282 | 4.279 | (0.863) | 117879 | 19.3454 | 19.34 |
| | 33 1,2-Dichloroethane | 62 | 4.556 | 4.556 | (0.918) | 123783 | 20.2732 | 20.27 |
| | 34 Carbon Tetrachloride | 117 | 4.267 | 4.264 | (0.860) | 109842 | 18.7437 | 18.74 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 248678 | 55.2546 | 55.25(M) |
| * | 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 727193 | 50.0000 | |
| | 37 Benzene | 78 | 4.511 | 4.511 | (0.909) | 356380 | 19.0523 | 19.05 |
| | 38 Trichloroethene | 130 | 5.205 | 5.205 | (1.048) | 97541 | 18.9127 | 18.91 |
| | 39 Bromodichloromethane | 83 | 5.726 | 5.722 | (1.153) | 127130 | 19.2134 | 19.21 |
| | 41 2-Chloroethylvinyl ether | 63 | 6.052 | 6.044 | (1.219) | 72330 | 40.3968 | 40.39 |
| | 42 1,2-Dichloropropane | 63 | 5.437 | 5.433 | (1.095) | 97557 | 19.8698 | 19.86 |
| | 44 Dibromomethane | 93 | 5.553 | 5.550 | (1.119) | 61227 | 19.8652 | 19.86 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.325 | 6.322 | (0.825) | 175271 | 39.8212 | 39.82 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.153 | 6.153 | (1.239) | 162301 | 19.8938 | 19.89 |
| * | 47 Chlorobenzene-d5 | 117 | 7.667 | 7.668 | (1.000) | 681365 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.385 | 6.386 | (0.833) | 868596 | 50.4223 | 50.42 |
| | 50 Toluene | 91 | 6.445 | 6.446 | (0.841) | 392953 | 19.6447 | 19.64 |
| | 51 trans-1,3-Dichloropropene | 75 | 6.682 | 6.678 | (1.346) | 136357 | 19.9764 | 19.97 |
| | 52 2-Hexanone | 43 | 7.086 | 7.087 | (0.924) | 122902 | 41.8029 | 41.80 |
| | 53 1,1,2-Trichloroethane | 83 | 6.839 | 6.839 | (0.892) | 74729 | 19.1762 | 19.17 |
| | 54 1,3-Dichloropropane | 76 | 6.981 | 6.978 | (0.911) | 154718 | 19.6358 | 19.63 |
| | 55 Dibromochloromethane | 129 | 7.173 | 7.173 | (0.935) | 106870 | 19.3503 | 19.35 |
| | 56 Tetrachloroethene | 164 | 6.929 | 6.925 | (0.904) | 76479 | 18.5926 | 18.59 |
| | 57 1,2-Dibromoethane | 107 | 7.259 | 7.259 | (0.947) | 97063 | 19.4865 | 19.48 |
| | 58 1-Chlorohexane | 55 | 7.694 | 7.694 | (1.550) | 88618 | 20.0392 | 20.03 |
| | 59 Chlorobenzene | 112 | 7.690 | 7.690 | (1.003) | 266583 | 19.4771 | 19.47 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 7.772 | 7.773 | (1.014) | 97572 | 19.1181 | 19.11 |
| | 61 Ethylbenzene | 106 | 7.799 | 7.799 | (1.017) | 134537 | 19.0785 | 19.07 |
| | 62 m,p-Xylenes | 106 | 7.904 | 7.900 | (1.031) | 345625 | 39.7443 | 39.74 |
| | 63 o-Xylene | 106 | 8.241 | 8.241 | (1.075) | 167262 | 19.2755 | 19.27 |
| | 64 Styrene | 104 | 8.260 | 8.256 | (1.077) | 284736 | 19.9211 | 19.92 |
| | 66 Bromoform | 173 | 8.410 | 8.406 | (1.097) | 73104 | 18.9867 | 18.98 |
| | 67 Isopropylbenzene | 105 | 8.560 | 8.560 | (1.116) | 411495 | 19.1853 | 19.18 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 68 | 1,1,2,2-Tetrachloroethane | 83 | 8.837 | 8.837 (0.915) | 128696 | 18.8601 | 18.86 |
| $ | 69 | 4-Bromofluorobenzene | 95 | 8.687 | 8.687 (1.133) | 350852 | 52.7710 | 52.77 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 | (1.000) | 388069 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 8.863 | 8.863 | (0.917) | 98365 | 20.1029 | 20.10(M) |
| | 73 n-Propylbenzene | 91 | 8.908 | 8.908 | (0.922) | 497917 | 19.4979 | 19.49 |
| | 74 Bromobenzene | 156 | 8.803 | 8.803 | (0.911) | 117926 | 18.6444 | 18.64 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.066 | 9.066 | (0.938) | 359558 | 19.1885 | 19.18 |
| | 76 2-Chlorotoluene | 91 | 8.972 | 8.972 | (0.929) | 310151 | 19.1254 | 19.12 |
| | 77 4-Chlorotoluene | 91 | 9.069 | 9.066 | (0.939) | 358304 | 19.8082 | 19.80 |
| | 78 tert-Butylbenzene | 119 | 9.332 | 9.332 | (0.966) | 293094 | 18.7747 | 18.77 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.377 | 9.377 | (0.971) | 367109 | 19.4182 | 19.41 |
| | 81 sec-Butylbenzene | 105 | 9.519 | 9.519 | (0.985) | 412820 | 18.7498 | 18.74 |
| | 82 p-Isopropyltoluene | 119 | 9.647 | 9.647 | (0.998) | 368291 | 19.1058 | 19.10 |
| | 83 1,3-Dichlorobenzene | 146 | 9.602 | 9.602 | (0.994) | 213775 | 18.9818 | 18.98 |
| | 84 1,4-Dichlorobenzene | 146 | 9.680 | 9.681 | (1.002) | 226842 | 18.8180 | 18.81 |
| | 87 n-Butylbenzene | 91 | 9.992 | 9.992 | (1.034) | 328692 | 20.0204 | 20.02 |
| | 88 1,2-Dichlorobenzene | 146 | 9.992 | 9.992 | (1.034) | 213762 | 19.1295 | 19.12 |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 10.659 | 10.655 | (1.103) | 22111 | 20.0129 | 20.01 |
| | 90 1,2,4-Trichlorobenzene | 180 | 11.337 | 11.334 | (1.173) | 149773 | 19.2675 | 19.26 |
| | 91 Hexachlorobutadiene | 225 | 11.476 | 11.480 | (1.188) | 63827 | 18.2925 | 18.29 |
| | 92 Naphthalene | 128 | 11.544 | 11.540 | (1.195) | 345699 | 19.7553 | 19.75 |
| | 93 1,2,3-Trichlorobenzene | 180 | 11.742 | 11.739 | (1.215) | 142441 | 19.9142 | 19.91 |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 180080 | 38.1416 | 38.14 |
| M | 95 Xylenes (total) | 106 | | | | 512887 | 59.0198 | 59.01 |
| | 141 Cyclohexane | 56 | 4.121 | 4.121 | (0.986) | 119720 | 20.0847 | 20.08 |
| | 138 Freon TF | 101 | 1.917 | 1.917 | (0.459) | 65288 | 20.3183 | 20.31 |
| | 147 Methylcyclohexane | 55 | 5.381 | 5.377 | (1.084) | 207546 | 20.4210 | 20.42 |
| | 146 Methyl Acetate | 43 | 2.236 | 2.236 | (0.535) | 55561 | 20.0745 | 20.07 |
| | 148 Tert-Butyl alcohol | 59 | 2.427 | 2.431 | (0.580) | 194597 | 405.254 | 405.25 |
| | 149 Isopropyl Alcohol | 45 | 2.097 | 2.093 | (0.502) | 108246 | 408.397 | 408.39 |

QC Flag Legend

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




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Sample Info: VLCSW-230617;VLCSW-230617;3;;LCS
Purge Volume: 5.0
Column phase: DB624

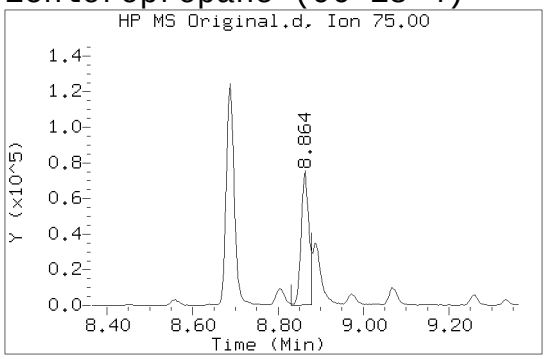
Instrument: voa6,i
Operator: PC
Column diameter: 0.18

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Inj Date : 17-JUN-2023 12:40
InstruID : voa6.i
LabSampID : VLCSW-230617

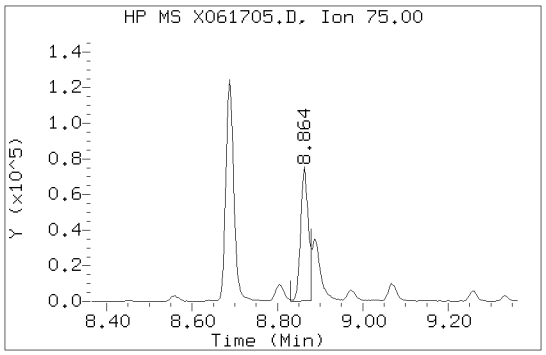
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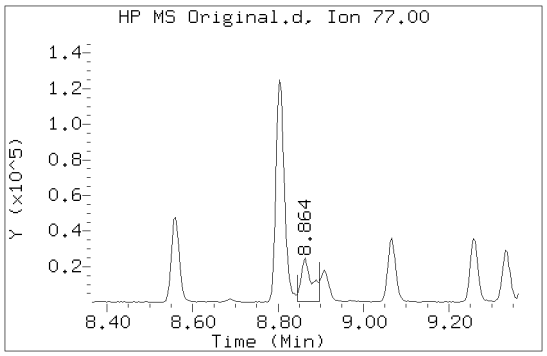
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HEIGHT
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19-Jun-2023
12:25



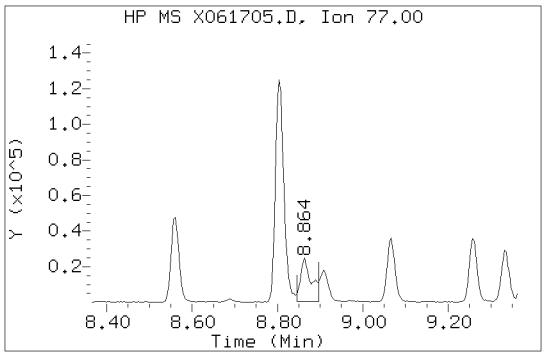

**AFTER**
MASS
75
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98365
HEIGHT
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20-Jun-2023
17:14




**BEFORE**
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46043
HEIGHT
24735
19-Jun-2023
12:25



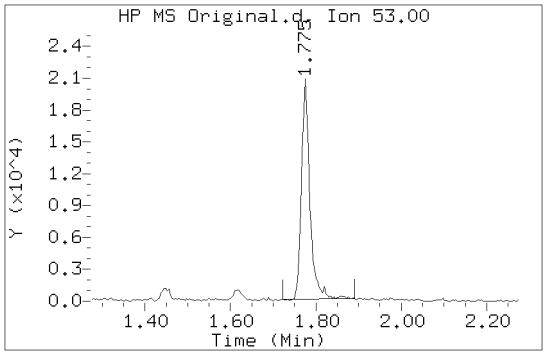

**AFTER**
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20-Jun-2023
17:14



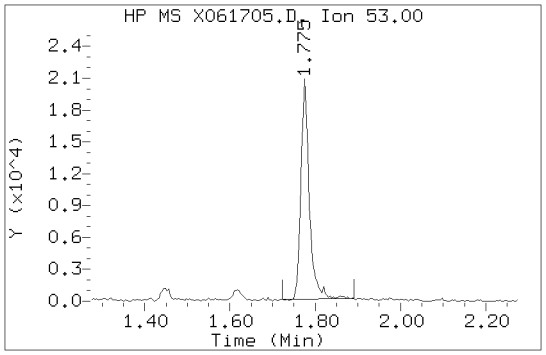

## Chloroprene (126-99-8)

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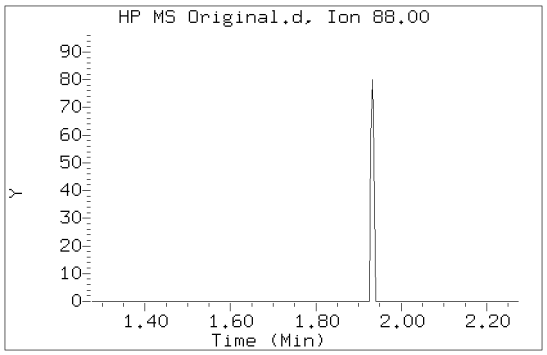
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19-Jun-2023
12:25



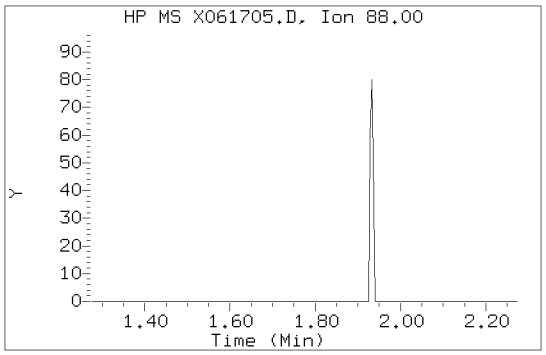

**AFTER**
MASS
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HEIGHT
20734
20-Jun-2023
17:14




**BEFORE**
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AREA
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HEIGHT
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19-Jun-2023
12:25




**AFTER**
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20-Jun-2023
17:14

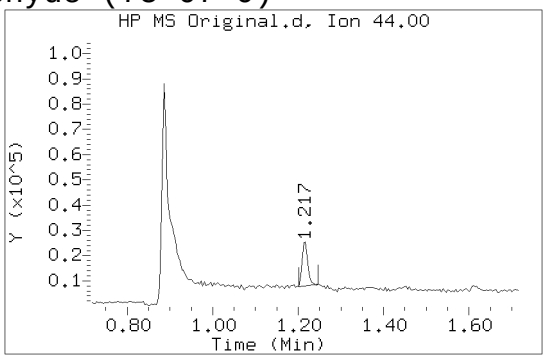


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LabSampID : VLCSW-230617

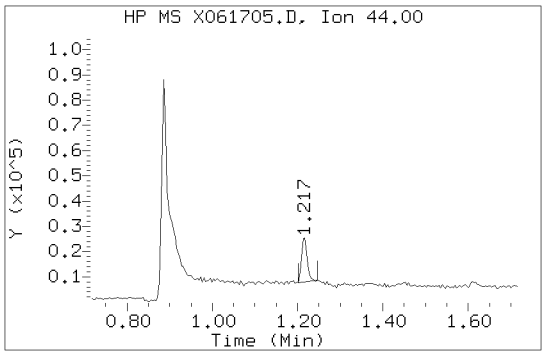
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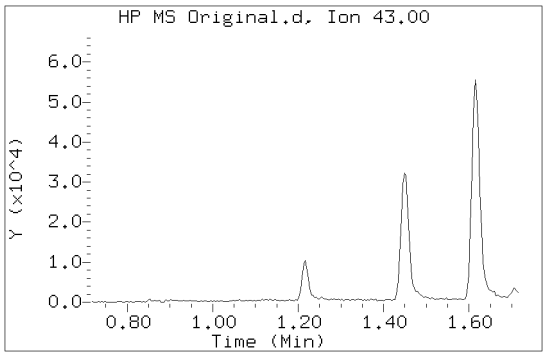
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HEIGHT
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19-Jun-2023
12:25



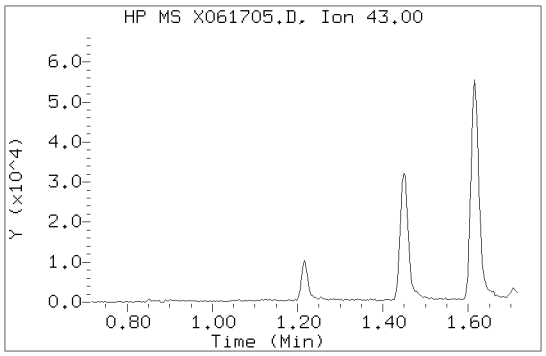

**AFTER**
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HEIGHT
17459
20-Jun-2023
17:14



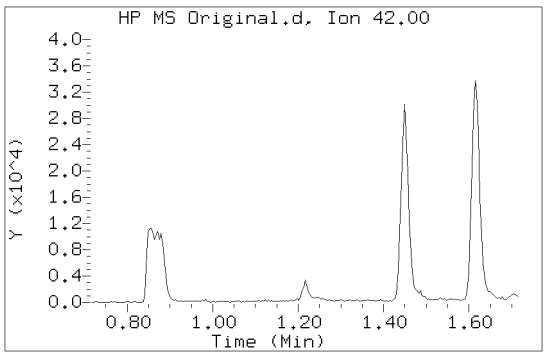

**BEFORE**
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19-Jun-2023
12:25



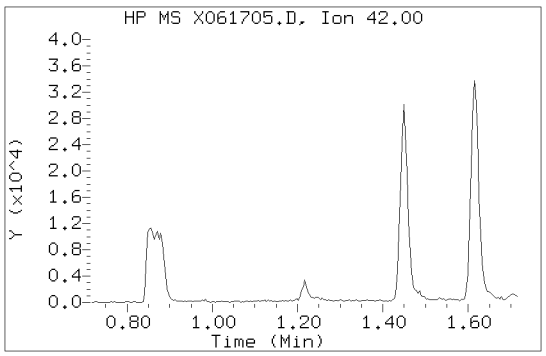

**AFTER**
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17:14




**BEFORE**
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19-Jun-2023
12:25



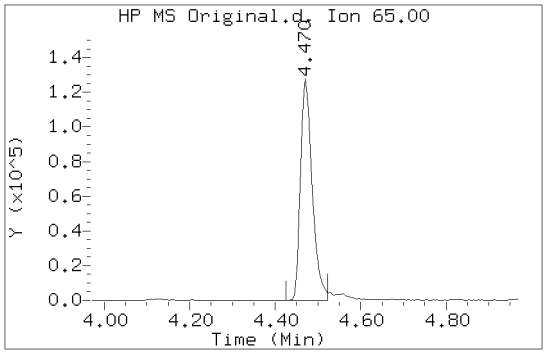

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20-Jun-2023
17:14



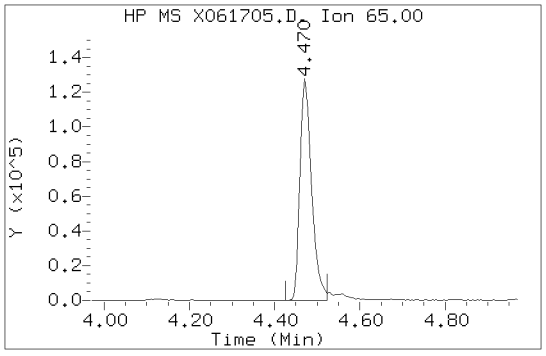

## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

**BEFORE**
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HEIGHT
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19-Jun-2023
12:25




**AFTER**
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AREA
248678
HEIGHT
127716
20-Jun-2023
17:14



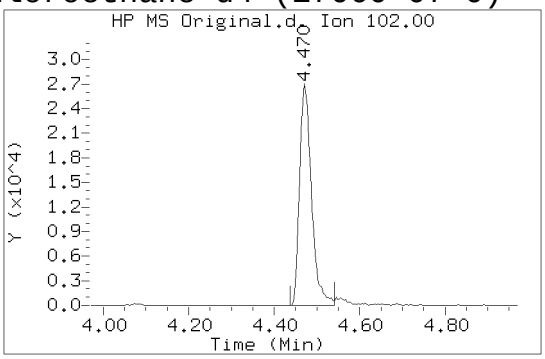
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Inj Date : 17-JUN-2023 12:40
InstruID : voa6.i
LabSampID : VLCSW-230617

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

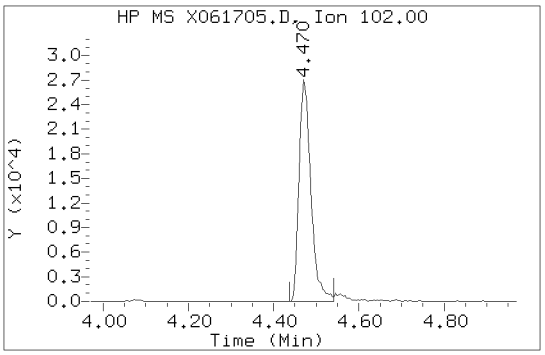
BEFORE

MASS
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19-Jun-2023
12:25




AFTER

MASS
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AREA
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HEIGHT
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20-Jun-2023
17:14



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Report Date: 20-Jun-2023 17:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061707.D
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Operator  : PC  Inst ID: voa6.i
Smp Info  : VBLKW-230617;VBLKW-230617;3;;BLANK
Misc Info : V6;WATER;0;1;
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Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 6  QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.181 | 4.178 | (1.000) | 497634 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.103 | 4.099 | (0.981) | 225839 | 50.8216 | 50.82 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 246749 | 51.4602 | 51.46 |
| * 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 733360 | 50.0000 | |
| * 47 Chlorobenzene-d5 | 117 | 7.668 | 7.668 | (1.000) | 649753 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.386 | 6.386 | (0.833) | 877454 | 53.4147 | 53.41 |
| $ 69 4-Bromofluorobenzene | 95 | 8.687 | 8.687 | (1.133) | 310423 | 48.9230 | 48.92 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 | (1.000) | 331139 | 50.0000 | |

01195622

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061707.D



Date : 17-JUN-2023 13:23

Client ID: VBLKW-230617

Instrument: voa6.i

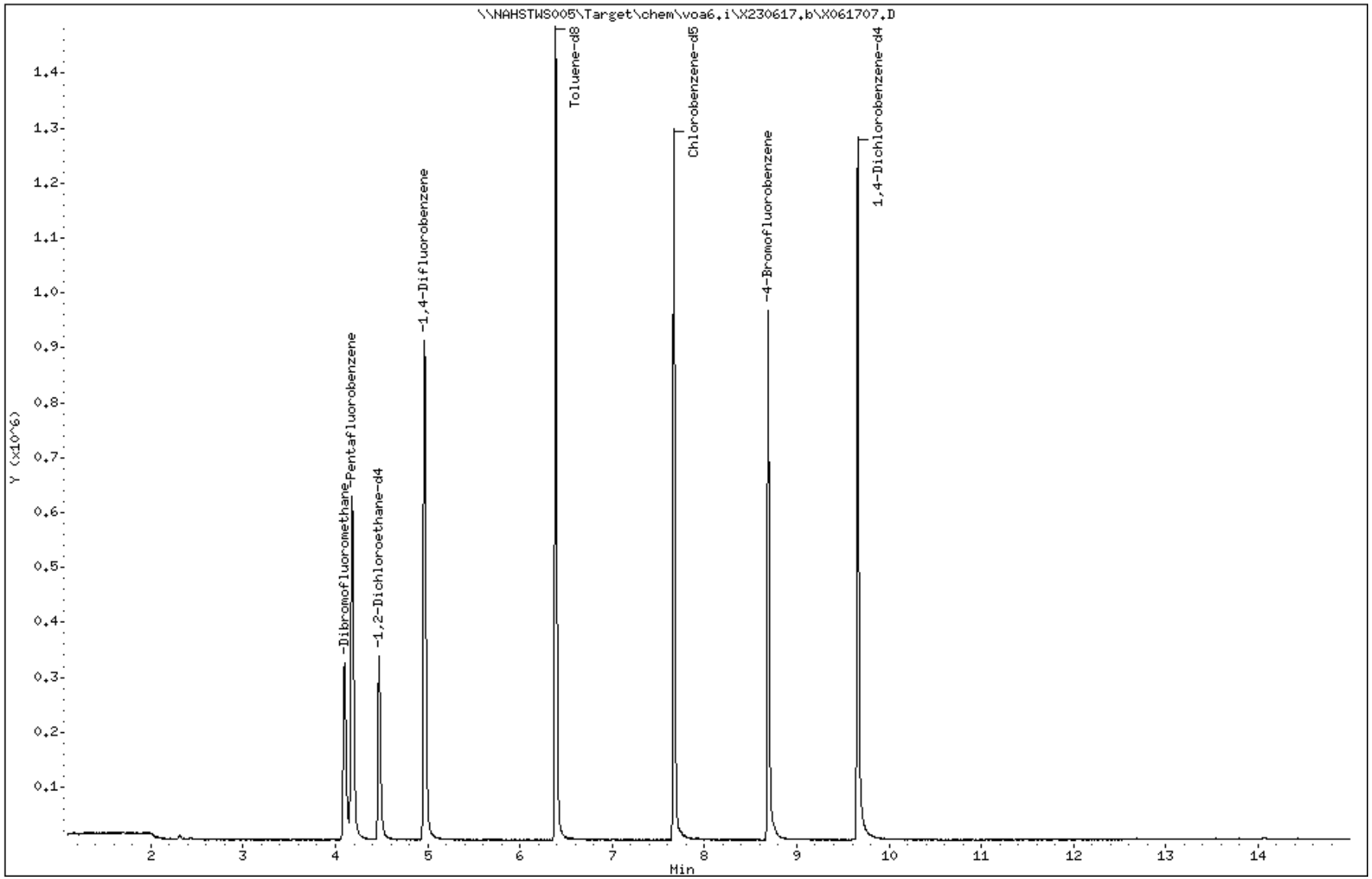
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Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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InstruID  : voa6.i
LabSampID : VBLKW-230617

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061710.D  Page 1
Report Date: 20-Jun-2023 17:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061710.D
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Inj Date  : 17-JUN-2023 14:26
Operator  : PC  Inst ID: voa6.i
Smp Info  : HS23060722-05MS;HS23060722-05MS;3;;MS
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\8260W.m
Meth Date : 20-Jun-2023 17:15 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 9  QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.181 | 4.178 | (1.000) | 499166 | 50.0000 | |
| 135 | 1,4-Dioxane | 88 | 5.602 | 5.595 | (1.340) | 24746 | 409.072 | 409.07(a) |
| 140 | 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.279) | 90530 | 21.8852 | 21.88 |
| 25 | Methacrylonitrile | 41 | 3.829 | 3.821 | (0.916) | 90103 | 21.8767 | 21.87 |
| 12 | Isobutyl Alcohol | 43 | 4.680 | 4.676 | (1.119) | 288725 | 443.605 | 443.60 |
| 13 | Acetonitrile | 39 | 2.198 | 2.198 | (0.526) | 117242 | 242.156 | 242.15 |
| 14 | Allyl Chloride | 41 | 2.202 | 2.202 | (0.527) | 244807 | 22.3634 | 22.36 |
| 4 | Propionitrile | 54 | 3.656 | 3.649 | (0.874) | 130947 | 216.913 | 216.91(a) |
| 72 | trans-1,4-Dichloro-2-butene | 53 | 8.886 | 8.886 | (1.159) | 33944 | 21.5361 | 21.53 |
| 194 | Acetaldehyde | 44 | 1.216 | 1.216 | (0.291) | 26906 | 100.742 | 100.74(M) |
| 23 | Chloroprene | 53 | 1.775 | 1.775 | (0.424) | 34145 | 20.5805 | 20.58(M) |
| 130 | Ethyl Acetate | 43 | 3.656 | 3.653 | (0.874) | 109033 | 21.4285 | 21.42 |
| 40 | Methyl Methacrylate | 41 | 5.606 | 5.602 | (1.341) | 87240 | 22.5762 | 22.57 |
| 49 | Ethyl Methacrylate | 69 | 6.708 | 6.708 | (1.351) | 110784 | 21.2728 | 21.27 |
| 131 | Methyl Acrylate | 55 | 3.694 | 3.687 | (0.883) | 95619 | 23.6516 | 23.65 |
| 136 | n-Hexane | 57 | 2.772 | 2.772 | (0.663) | 120867 | 27.0589 | 27.05 |
| 156 | Diisopropyl ether | 45 | 3.000 | 3.001 | (0.718) | 311739 | 21.1754 | 21.17 |
| 166 | 1,2,3-Trimethylbenzene | 105 | 9.729 | 9.729 | (1.007) | 422424 | 25.2848 | 25.28 |
| 2 | Dichlorodifluoromethane | 85 | 0.976 | 0.976 | (0.234) | 89814 | 21.0871 | 21.08 |
| 3 | Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 108609 | 21.1874 | 21.18 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | Vinyl Chloride | 62 | 1.148 | 1.145 (0.275) | 115320 | 21.9979 | 21.99 |
| 6 | Bromomethane | 94 | 1.343 | 1.344 (0.321) | 60639 | 20.1515 | 20.15 |

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061710.D Page 2
Report Date: 20-Jun-2023 17:15

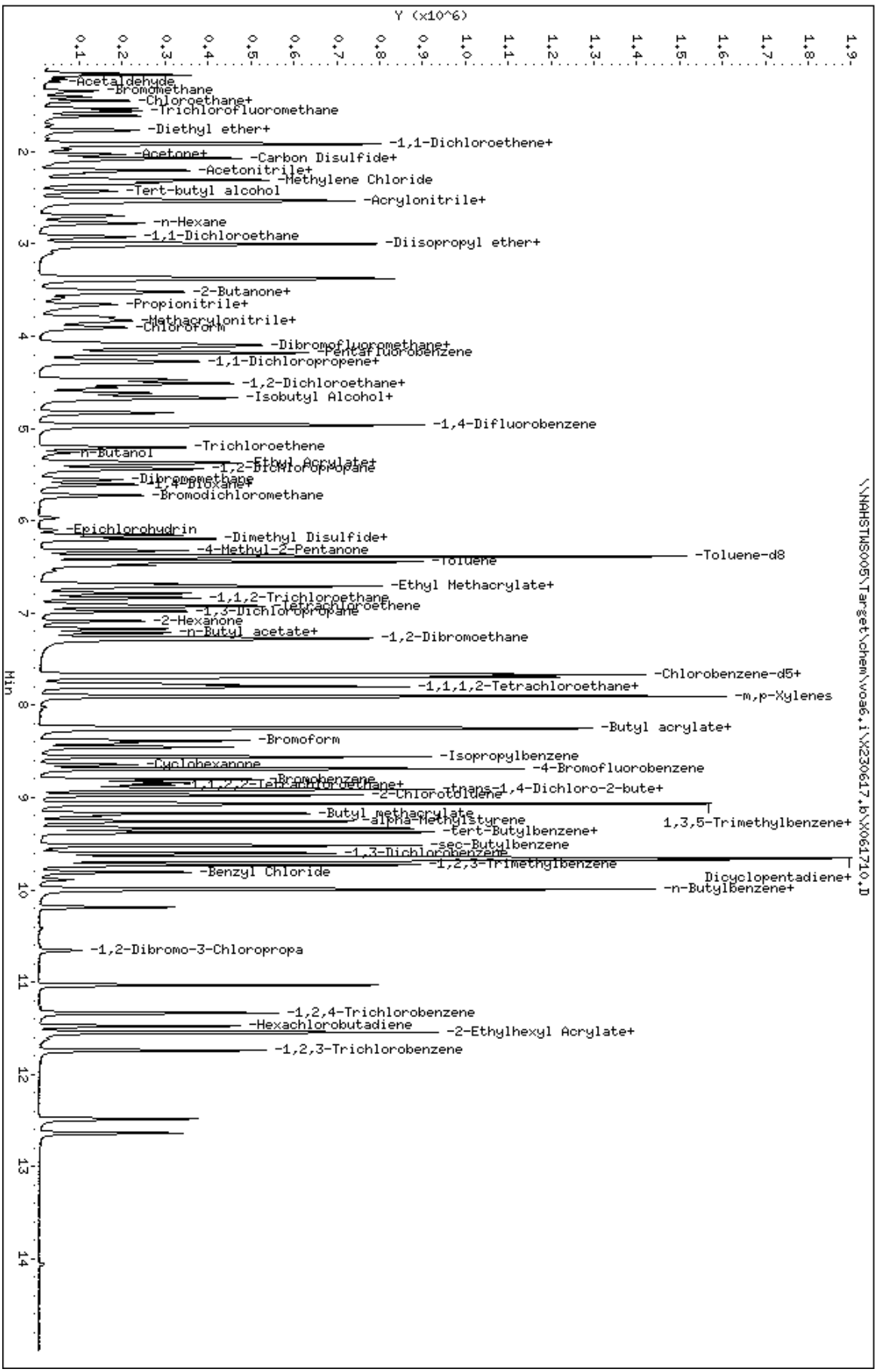
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 7 Chloroethane | 64 | 1.407 | 1.407 | (0.337) | 70439 | 21.9817 | 21.98 |
| | 8 Trichlorofluoromethane | 101 | 1.561 | 1.565 | (0.373) | 144728 | 23.2321 | 23.23 |
| | 9 Acrolein | 56 | 1.448 | 1.449 | (0.346) | 16616 | 53.6451 | 53.64 |
| | 10 Acetone | 43 | 1.977 | 1.973 | (0.473) | 44795 | 34.2372 | 34.23 |
| | 11 1,1-Dichloroethene | 96 | 1.917 | 1.917 | (0.459) | 196515 | 50.2855 | 50.28 |
| | 15 Iodomethane | 142 | 2.029 | 2.030 | (0.485) | 199867 | 32.6892 | 32.68 |
| | 16 Acrylonitrile | 53 | 2.539 | 2.536 | (0.607) | 64988 | 41.0161 | 41.01 |
| | 17 Methylene Chloride | 84 | 2.307 | 2.307 | (0.552) | 104262 | 18.8877 | 18.88 |
| | 18 Methyl tert-butyl ether | 73 | 2.535 | 2.536 | (0.606) | 288149 | 21.1257 | 21.12 |
| | 19 Carbon Disulfide | 76 | 2.071 | 2.071 | (0.495) | 544236 | 39.1109 | 39.11 |
| | 20 trans-1,2-Dichloroethene | 96 | 2.532 | 2.528 | (0.606) | 95335 | 20.3871 | 20.38 |
| | 21 Vinyl Acetate | 43 | 3.000 | 2.997 | (0.718) | 543755 | 43.5663 | 43.56 |
| | 22 1,1-Dichloroethane | 63 | 2.922 | 2.922 | (0.699) | 225208 | 26.7337 | 26.73 |
| | 24 2-Butanone | 43 | 3.585 | 3.578 | (0.857) | 58380 | 35.5384 | 35.53 |
| | 26 2,2-Dichloropropane | 77 | 3.510 | 3.507 | (0.840) | 158217 | 23.7976 | 23.79 |
| | 27 cis-1,2-Dichloroethene | 96 | 3.525 | 3.525 | (0.843) | 112064 | 20.7812 | 20.78 |
| | 28 Chloroform | 83 | 3.907 | 3.908 | (0.935) | 182466 | 20.1242 | 20.12 |
| | 29 Bromochloromethane | 128 | 3.795 | 3.795 | (0.908) | 56125 | 19.5315 | 19.53 |
| $ | 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.980) | 219104 | 49.1433 | 49.14 |
| | 31 1,1,1-Trichloroethane | 97 | 4.080 | 4.080 | (0.976) | 157782 | 21.5305 | 21.53 |
| | 32 1,1-Dichloropropene | 75 | 4.279 | 4.279 | (0.862) | 142556 | 23.4152 | 23.41 |
| | 33 1,2-Dichloroethane | 62 | 4.556 | 4.556 | (0.918) | 137392 | 22.5213 | 22.52 |
| | 34 Carbon Tetrachloride | 117 | 4.264 | 4.264 | (0.859) | 136457 | 23.3053 | 23.30 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 248548 | 51.6799 | 51.67 |
| * | 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 726571 | 50.0000 | |
| | 37 Benzene | 78 | 4.511 | 4.511 | (0.909) | 410877 | 21.9846 | 21.98 |
| | 38 Trichloroethene | 130 | 5.208 | 5.205 | (1.049) | 113449 | 22.0161 | 22.01 |
| | 39 Bromodichloromethane | 83 | 5.726 | 5.722 | (1.153) | 139638 | 21.1218 | 21.12 |
| | 42 1,2-Dichloropropane | 63 | 5.433 | 5.433 | (1.094) | 106909 | 21.7932 | 21.79 |
| | 44 Dibromomethane | 93 | 5.553 | 5.550 | (1.119) | 66299 | 21.5292 | 21.52 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.325 | 6.322 | (0.825) | 199698 | 47.7391 | 47.73 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.153 | 6.153 | (1.239) | 175944 | 21.5846 | 21.58 |
| * | 47 Chlorobenzene-d5 | 117 | 7.667 | 7.668 | (1.000) | 647565 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.385 | 6.386 | (0.833) | 866691 | 52.9378 | 52.93 |
| | 50 Toluene | 91 | 6.445 | 6.446 | (0.841) | 444296 | 23.3707 | 23.37 |
| | 51 trans-1,3-Dichloropropene | 75 | 6.681 | 6.678 | (1.346) | 149640 | 21.9411 | 21.94 |
| | 52 2-Hexanone | 43 | 7.086 | 7.087 | (0.924) | 132270 | 47.3375 | 47.33 |
| | 53 1,1,2-Trichloroethane | 83 | 6.839 | 6.839 | (0.892) | 82655 | 22.3172 | 22.31 |
| | 54 1,3-Dichloropropane | 76 | 6.981 | 6.978 | (0.911) | 171508 | 22.9028 | 22.90 |
| | 55 Dibromochloromethane | 129 | 7.173 | 7.173 | (0.935) | 115672 | 22.0372 | 22.03 |
| | 56 Tetrachloroethene | 164 | 6.925 | 6.925 | (0.903) | 94112 | 24.0735 | 24.07 |
| | 57 1,2-Dibromoethane | 107 | 7.259 | 7.259 | (0.947) | 105978 | 22.3868 | 22.38 |
| | 58 1-Chlorohexane | 55 | 7.694 | 7.694 | (1.550) | 107209 | 24.2639 | 24.26 |
| | 59 Chlorobenzene | 112 | 7.694 | 7.690 | (1.003) | 297620 | 22.8797 | 22.87 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 7.772 | 7.773 | (1.014) | 107337 | 22.1291 | 22.12 |
| | 61 Ethylbenzene | 106 | 7.799 | 7.799 | (1.017) | 157424 | 23.4893 | 23.48 |
| | 62 m,p-Xylenes | 106 | 7.900 | 7.900 | (1.030) | 395899 | 47.9017 | 47.90 |
| | 63 o-Xylene | 106 | 8.241 | 8.241 | (1.075) | 190129 | 23.0543 | 23.05 |
| | 64 Styrene | 104 | 8.260 | 8.256 | (1.077) | 312601 | 23.0121 | 23.01 |
| | 66 Bromoform | 173 | 8.410 | 8.406 | (1.097) | 77718 | 21.2387 | 21.23 |
| | 67 Isopropylbenzene | 105 | 8.560 | 8.560 | (1.116) | 494030 | 24.2356 | 24.23 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 8.837 | 8.837 | (0.915) | 137617 | 22.2674 | 22.26 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| $ | 69 | 4-Bromofluorobenzene | 95 | 8.687 | 8.687 (1.133) | 309583 | 48.9558 | 48.95 |
| * | 70 | 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 (1.000) | 351472 | 50.0000 | |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 71 | 1,2,3-Trichloropropane | 75 | 8.863 | 8.863 | (0.917) | 103174 | 23.2812 | 23.28(M) |
| 73 | n-Propylbenzene | 91 | 8.912 | 8.908 | (0.922) | 592248 | 25.6067 | 25.60 |
| 74 | Bromobenzene | 156 | 8.803 | 8.803 | (0.911) | 129158 | 22.5464 | 22.54 |
| 75 | 1,3,5-Trimethylbenzene | 105 | 9.066 | 9.066 | (0.938) | 416226 | 24.5255 | 24.52 |
| 76 | 2-Chlorotoluene | 91 | 8.972 | 8.972 | (0.929) | 355324 | 24.1925 | 24.19 |
| 77 | 4-Chlorotoluene | 91 | 9.069 | 9.066 | (0.939) | 401962 | 24.5356 | 24.53 |
| 78 | tert-Butylbenzene | 119 | 9.336 | 9.332 | (0.966) | 352740 | 24.9482 | 24.94 |
| 79 | 1,2,4-Trimethylbenzene | 105 | 9.377 | 9.377 | (0.971) | 416905 | 24.3484 | 24.34 |
| 81 | sec-Butylbenzene | 105 | 9.519 | 9.519 | (0.985) | 506372 | 25.3936 | 25.39 |
| 82 | p-Isopropyltoluene | 119 | 9.647 | 9.647 | (0.998) | 438899 | 25.1396 | 25.13 |
| 83 | 1,3-Dichlorobenzene | 146 | 9.605 | 9.602 | (0.994) | 239060 | 23.4372 | 23.43 |
| 84 | 1,4-Dichlorobenzene | 146 | 9.680 | 9.681 | (1.002) | 250156 | 22.9128 | 22.91 |
| 87 | n-Butylbenzene | 91 | 9.992 | 9.992 | (1.034) | 394464 | 26.5283 | 26.52 |
| 88 | 1,2-Dichlorobenzene | 146 | 9.992 | 9.992 | (1.034) | 232769 | 22.9994 | 22.99 |
| 89 | 1,2-Dibromo-3-Chloropropane | 155 | 10.659 | 10.655 | (1.103) | 23288 | 23.2303 | 23.23 |
| 90 | 1,2,4-Trichlorobenzene | 180 | 11.337 | 11.334 | (1.173) | 165656 | 23.5298 | 23.52 |
| 91 | Hexachlorobutadiene | 225 | 11.476 | 11.480 | (1.188) | 76892 | 24.3315 | 24.33 |
| 92 | Naphthalene | 128 | 11.543 | 11.540 | (1.195) | 366498 | 23.1246 | 23.12 |
| 93 | 1,2,3-Trichlorobenzene | 180 | 11.738 | 11.739 | (1.215) | 147749 | 22.8071 | 22.80 |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 207399 | 41.1683 | 41.16 |
| M 95 | Xylenes (total) | 106 | | | | 586028 | 70.9560 | 70.95 |
| 141 | Cyclohexane | 56 | 4.125 | 4.121 | (0.987) | 158636 | 24.9310 | 24.93 |
| 138 | Freon TF | 101 | 1.917 | 1.917 | (0.459) | 88516 | 25.7467 | 25.74 |
| 147 | Methylcyclohexane | 55 | 5.384 | 5.377 | (1.085) | 270392 | 26.6274 | 26.62 |
| 146 | Methyl Acetate | 43 | 2.236 | 2.236 | (0.535) | 62235 | 21.0644 | 21.06 |
| 148 | Tert-Butyl alcohol | 59 | 2.431 | 2.431 | (0.581) | 203167 | 396.355 | 396.35 |
| 149 | Isopropyl Alcohol | 45 | 2.097 | 2.093 | (0.502) | 110343 | 389.992 | 389.99 |

QC Flag Legend

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




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Purge Volume: 5.0
Column phase: DB624

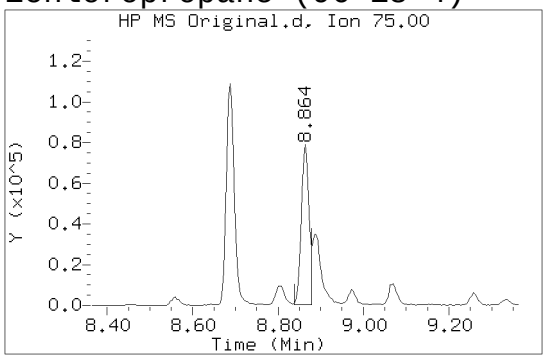
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Operator: PC
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Inj Date : 17-JUN-2023 14:26
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LabSampID : HS23060722-05MS

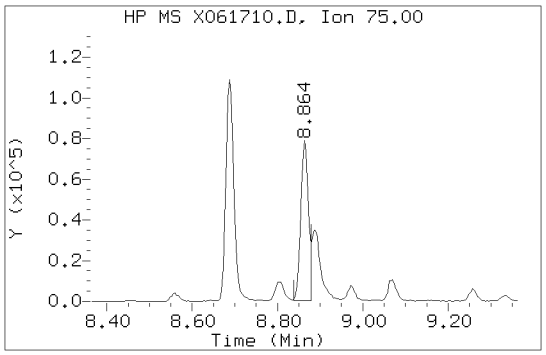
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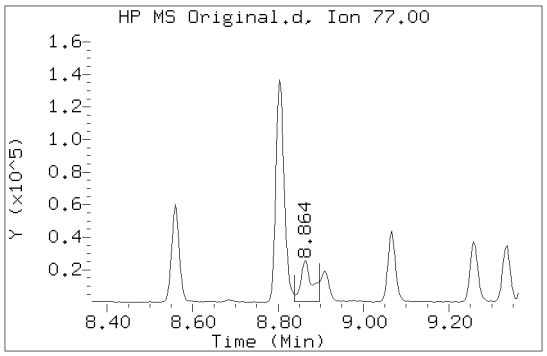
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MASS
75
AREA
103174
HEIGHT
78698
19-Jun-2023
12:25



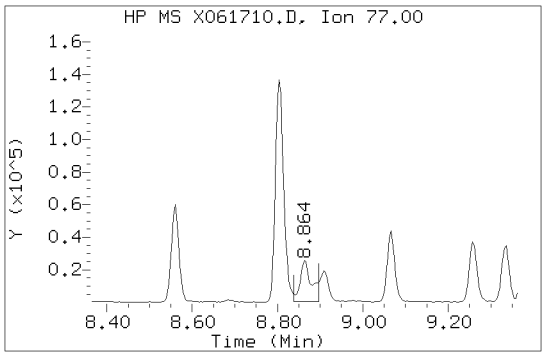

**AFTER**
MASS
75
AREA
103174
HEIGHT
78698
20-Jun-2023
17:14




**BEFORE**
MASS
77
AREA
49808
HEIGHT
25589
19-Jun-2023
12:25



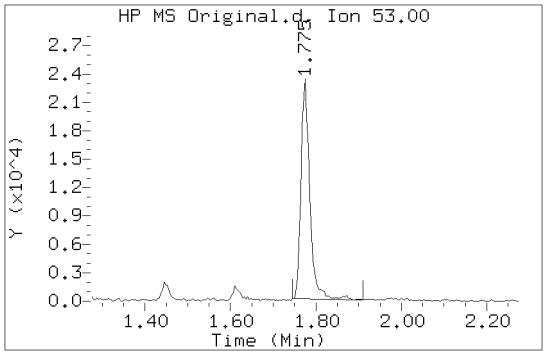

**AFTER**
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77
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49808
HEIGHT
25589
20-Jun-2023
17:14



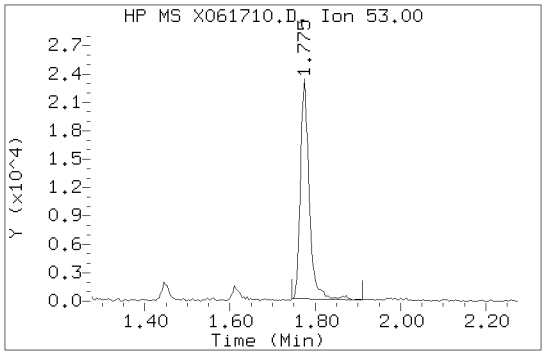

## Chloroprene (126-99-8)

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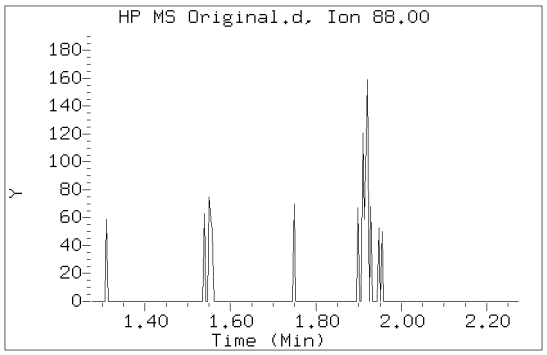
**BEFORE**
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53
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34145
HEIGHT
23217
19-Jun-2023
12:25



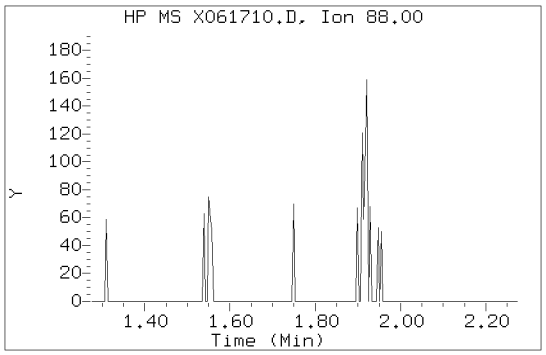

**AFTER**
MASS
53
AREA
34145
HEIGHT
23217
20-Jun-2023
17:14




**BEFORE**
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88
AREA
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0
19-Jun-2023
12:25




**AFTER**
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AREA
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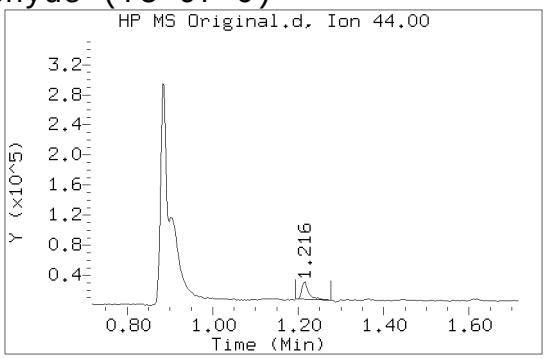


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InstruID : voa6.i
LabSampID : HS23060722-05MS

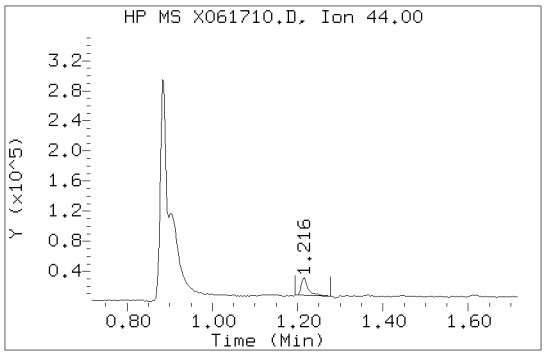
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Reason Code:

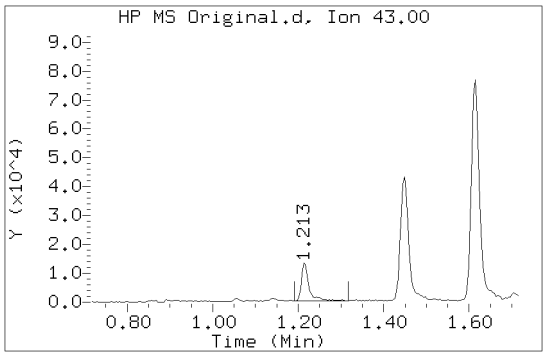
BEFORE
MASS
44
AREA
26906
HEIGHT
23321
19-Jun-2023
12:25



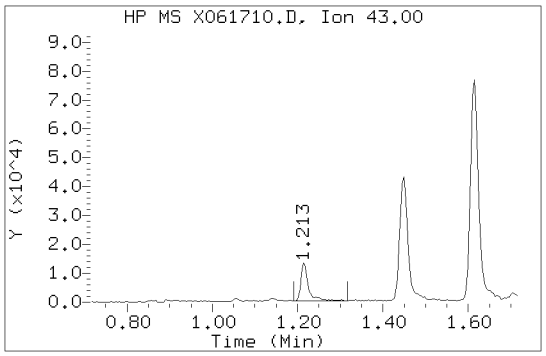

AFTER
MASS
44
AREA
26906
HEIGHT
23321
20-Jun-2023
17:14



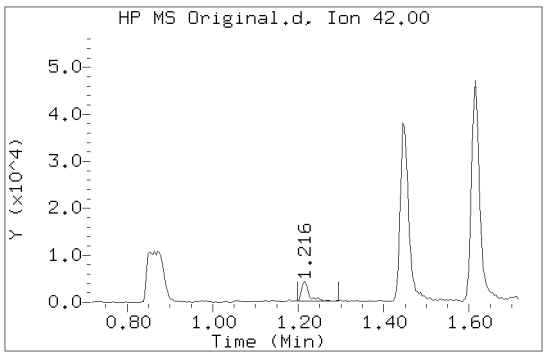

BEFORE
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43
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13070
19-Jun-2023
12:25



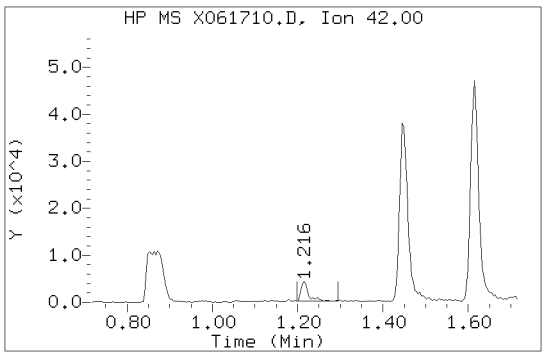

AFTER
MASS
43
AREA
16653
HEIGHT
13070
20-Jun-2023
17:14




BEFORE
MASS
42
AREA
5415
HEIGHT
4096
19-Jun-2023
12:25




AFTER
MASS
42
AREA
5415
HEIGHT
4096
20-Jun-2023
17:14



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061711.D  Page 1
Report Date: 20-Jun-2023 17:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061711.D
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Inj Date  : 17-JUN-2023 14:47
Operator  : PC  Inst ID: voa6.i
Smp Info  : HS23060722-05MSD;HS23060722-05MSD;3;;MSD
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\8260W.m
Meth Date : 20-Jun-2023 17:15 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 9  QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.181 | 4.178 | (1.000) | 506199 | 50.0000 | |
| 135 1,4-Dioxane | 88 | 5.602 | 5.595 | (1.340) | 24829 | 404.742 | 404.74(a) |
| 140 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.279) | 89845 | 21.4178 | 21.41 |
| 25 Methacrylonitrile | 41 | 3.821 | 3.821 | (0.914) | 94430 | 22.6087 | 22.60 |
| 12 Isobutyl Alcohol | 43 | 4.676 | 4.676 | (1.118) | 301477 | 456.762 | 456.76 |
| 13 Acetonitrile | 39 | 2.202 | 2.198 | (0.527) | 118575 | 241.507 | 241.50 |
| 14 Allyl Chloride | 41 | 2.202 | 2.202 | (0.527) | 255891 | 23.0512 | 23.05 |
| 4 Propionitrile | 54 | 3.653 | 3.649 | (0.874) | 138689 | 226.546 | 226.54(a) |
| 72 trans-1,4-Dichloro-2-butene | 53 | 8.890 | 8.886 | (1.159) | 37226 | 22.8674 | 22.86 |
| 194 Acetaldehyde | 44 | 1.216 | 1.216 | (0.291) | 26771 | 98.7790 | 98.77(M) |
| 23 Chloroprene | 53 | 1.775 | 1.775 | (0.424) | 33827 | 20.1056 | 20.10(M) |
| 130 Ethyl Acetate | 43 | 3.656 | 3.653 | (0.874) | 109966 | 21.3116 | 21.31 |
| 40 Methyl Methacrylate | 41 | 5.606 | 5.602 | (1.341) | 93314 | 23.8126 | 23.81 |
| 49 Ethyl Methacrylate | 69 | 6.708 | 6.708 | (1.351) | 119198 | 22.4184 | 22.41 |
| 131 Methyl Acrylate | 55 | 3.690 | 3.687 | (0.883) | 99211 | 24.1991 | 24.19 |
| 136 n-Hexane | 57 | 2.772 | 2.772 | (0.663) | 114930 | 25.4047 | 25.40 |
| 156 Diisopropyl ether | 45 | 3.004 | 3.001 | (0.719) | 324611 | 21.7434 | 21.74 |
| 166 1,2,3-Trimethylbenzene | 105 | 9.729 | 9.729 | (1.007) | 428007 | 25.0150 | 25.01 |
| 2 Dichlorodifluoromethane | 85 | 0.976 | 0.976 | (0.234) | 90368 | 20.9250 | 20.92 |
| 3 Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 110681 | 21.2866 | 21.28 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5 Vinyl Chloride | 62 | 1.145 | 1.145 (0.274) | 113780 | 21.4026 | 21.40 |
| 6 Bromomethane | 94 | 1.344 | 1.344 (0.321) | 61719 | 20.2254 | 20.22 |

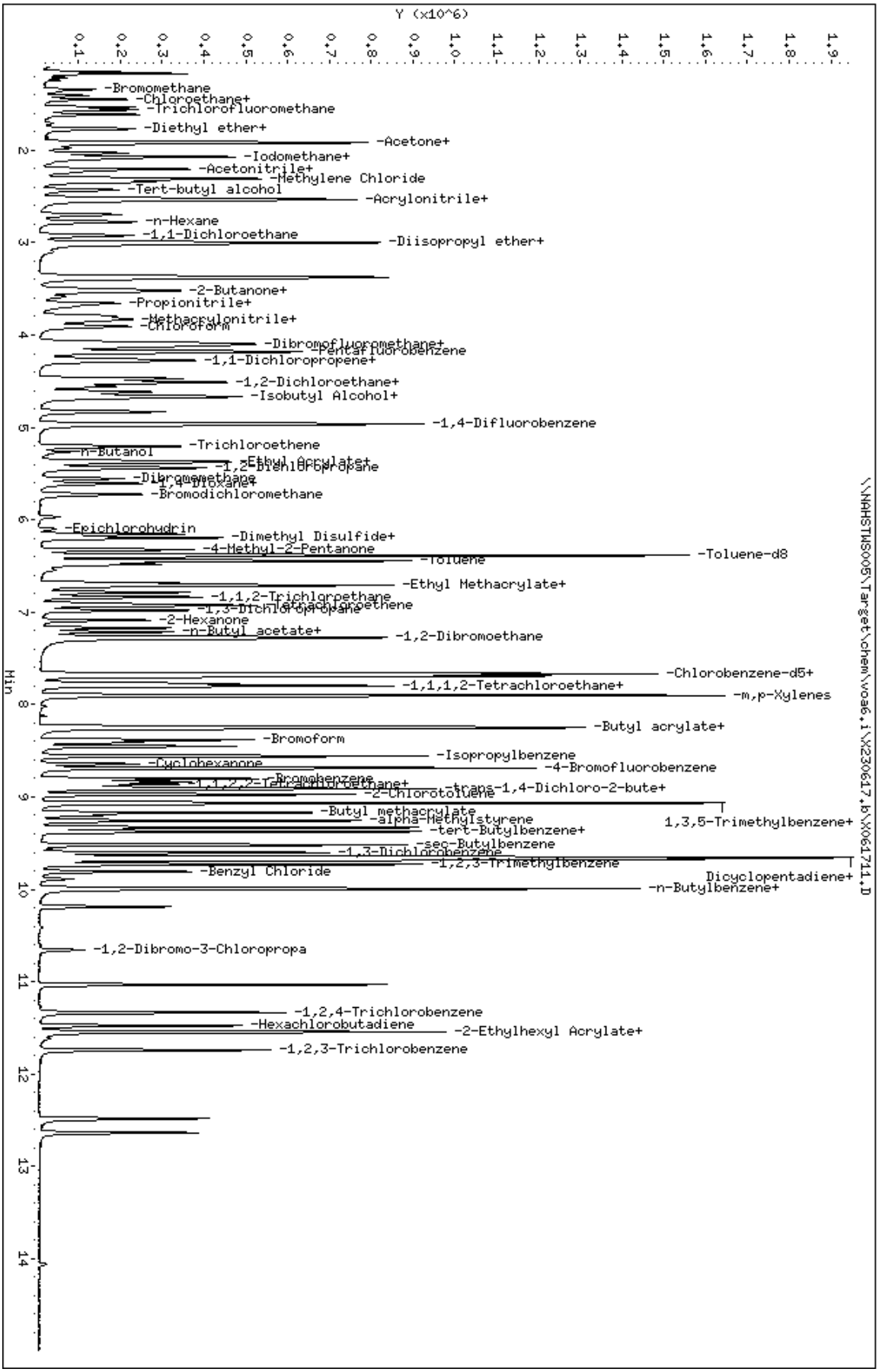
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 7 Chloroethane | 64 | 1.407 | 1.407 | (0.337) | 69006 | 21.2353 | 21.23 |
| | 8 Trichlorofluoromethane | 101 | 1.565 | 1.565 | (0.374) | 140635 | 22.2615 | 22.26 |
| | 9 Acrolein | 56 | 1.448 | 1.449 | (0.347) | 15603 | 49.6747 | 49.67 |
| | 10 Acetone | 43 | 1.977 | 1.973 | (0.473) | 47468 | 35.7883 | 35.78 |
| | 11 1,1-Dichloroethene | 96 | 1.917 | 1.917 | (0.459) | 189045 | 47.7020 | 47.70 |
| | 15 Iodomethane | 142 | 2.030 | 2.030 | (0.485) | 220590 | 35.3613 | 35.36 |
| | 16 Acrylonitrile | 53 | 2.539 | 2.536 | (0.607) | 66392 | 41.3200 | 41.32 |
| | 17 Methylene Chloride | 84 | 2.307 | 2.307 | (0.552) | 107217 | 19.1531 | 19.15 |
| | 18 Methyl tert-butyl ether | 73 | 2.532 | 2.536 | (0.606) | 300185 | 21.7023 | 21.70 |
| | 19 Carbon Disulfide | 76 | 2.071 | 2.071 | (0.495) | 538702 | 38.1754 | 38.17 |
| | 20 trans-1,2-Dichloroethene | 96 | 2.532 | 2.528 | (0.606) | 98716 | 20.8168 | 20.81 |
| | 21 Vinyl Acetate | 43 | 3.000 | 2.997 | (0.718) | 564386 | 44.5910 | 44.59 |
| | 22 1,1-Dichloroethane | 63 | 2.922 | 2.922 | (0.699) | 226282 | 26.4880 | 26.48 |
| | 24 2-Butanone | 43 | 3.581 | 3.578 | (0.857) | 68144 | 40.9058 | 40.90 |
| | 26 2,2-Dichloropropane | 77 | 3.510 | 3.507 | (0.840) | 157292 | 23.3297 | 23.32 |
| | 27 cis-1,2-Dichloroethene | 96 | 3.529 | 3.525 | (0.844) | 113055 | 20.6737 | 20.67 |
| | 28 Chloroform | 83 | 3.904 | 3.908 | (0.934) | 184200 | 20.0332 | 20.03 |
| | 29 Bromochloromethane | 128 | 3.795 | 3.795 | (0.908) | 57938 | 19.8823 | 19.88 |
| $ | 30 Dibromofluoromethane | 113 | 4.095 | 4.099 | (0.979) | 223169 | 49.3611 | 49.36 |
| | 31 1,1,1-Trichloroethane | 97 | 4.080 | 4.080 | (0.976) | 160956 | 21.6584 | 21.65 |
| | 32 1,1-Dichloropropene | 75 | 4.279 | 4.279 | (0.862) | 141223 | 22.7199 | 22.71 |
| | 33 1,2-Dichloroethane | 62 | 4.556 | 4.556 | (0.918) | 139339 | 22.3714 | 22.37 |
| | 34 Carbon Tetrachloride | 117 | 4.264 | 4.264 | (0.859) | 136360 | 22.8105 | 22.81 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 247333 | 50.6967 | 50.69 |
| * | 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 741804 | 50.0000 | |
| | 37 Benzene | 78 | 4.511 | 4.511 | (0.909) | 410359 | 21.5060 | 21.50 |
| | 38 Trichloroethene | 130 | 5.208 | 5.205 | (1.049) | 114849 | 21.8301 | 21.83 |
| | 39 Bromodichloromethane | 83 | 5.722 | 5.722 | (1.153) | 141392 | 20.9479 | 20.94 |
| | 42 1,2-Dichloropropane | 63 | 5.433 | 5.433 | (1.094) | 109602 | 21.8834 | 21.88 |
| | 44 Dibromomethane | 93 | 5.553 | 5.550 | (1.119) | 68936 | 21.9258 | 21.92 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.325 | 6.322 | (0.825) | 208384 | 48.2316 | 48.23 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.153 | 6.153 | (1.239) | 180926 | 21.7400 | 21.73 |
| * | 47 Chlorobenzene-d5 | 117 | 7.667 | 7.668 | (1.000) | 668832 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.385 | 6.386 | (0.833) | 884739 | 52.3219 | 52.32 |
| | 50 Toluene | 91 | 6.445 | 6.446 | (0.841) | 451168 | 22.9776 | 22.97 |
| | 51 trans-1,3-Dichloropropene | 75 | 6.682 | 6.678 | (1.346) | 149400 | 21.4561 | 21.45 |
| | 52 2-Hexanone | 43 | 7.086 | 7.087 | (0.924) | 140791 | 48.7849 | 48.78 |
| | 53 1,1,2-Trichloroethane | 83 | 6.835 | 6.839 | (0.891) | 84565 | 22.1069 | 22.10 |
| | 54 1,3-Dichloropropane | 76 | 6.981 | 6.978 | (0.911) | 176823 | 22.8617 | 22.86 |
| | 55 Dibromochloromethane | 129 | 7.173 | 7.173 | (0.935) | 119444 | 22.0323 | 22.03 |
| | 56 Tetrachloroethene | 164 | 6.925 | 6.925 | (0.903) | 94766 | 23.4700 | 23.47 |
| | 57 1,2-Dibromoethane | 107 | 7.259 | 7.259 | (0.947) | 109878 | 22.4726 | 22.47 |
| | 58 1-Chlorohexane | 55 | 7.694 | 7.694 | (1.550) | 104958 | 23.2666 | 23.26 |
| | 59 Chlorobenzene | 112 | 7.690 | 7.690 | (1.003) | 300011 | 22.3302 | 22.33 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 7.772 | 7.773 | (1.014) | 109204 | 21.7982 | 21.79 |
| | 61 Ethylbenzene | 106 | 7.799 | 7.799 | (1.017) | 158134 | 22.8450 | 22.84 |
| | 62 m,p-Xylenes | 106 | 7.900 | 7.900 | (1.030) | 404316 | 47.3646 | 47.36 |
| | 63 o-Xylene | 106 | 8.241 | 8.241 | (1.075) | 192160 | 22.5597 | 22.55 |
| | 64 Styrene | 104 | 8.260 | 8.256 | (1.077) | 317660 | 22.6410 | 22.64 |
| | 66 Bromoform | 173 | 8.410 | 8.406 | (1.097) | 82585 | 21.8511 | 21.85 |
| | 67 Isopropylbenzene | 105 | 8.560 | 8.560 | (1.116) | 499426 | 23.7213 | 23.72 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 8.837 | 8.837 | (0.915) | 144915 | 22.8955 | 22.89 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| $ | 69 | 4-Bromofluorobenzene | 95 | 8.687 | 8.687 (1.133) | 322901 | 49.4435 | 49.44 |
| * | 70 | 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 (1.000) | 359957 | 50.0000 | |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 71 | 1,2,3-Trichloropropane | 75 | 8.863 | 8.863 | (0.917) | 116589 | 25.6882 | 25.68 |
| 73 | n-Propylbenzene | 91 | 8.908 | 8.908 | (0.922) | 596597 | 25.1867 | 25.18 |
| 74 | Bromobenzene | 156 | 8.803 | 8.803 | (0.911) | 134509 | 22.9270 | 22.92 |
| 75 | 1,3,5-Trimethylbenzene | 105 | 9.066 | 9.066 | (0.938) | 428189 | 24.6357 | 24.63 |
| 76 | 2-Chlorotoluene | 91 | 8.972 | 8.972 | (0.929) | 356849 | 23.7236 | 23.72 |
| 77 | 4-Chlorotoluene | 91 | 9.069 | 9.066 | (0.939) | 411492 | 24.5252 | 24.52 |
| 78 | tert-Butylbenzene | 119 | 9.332 | 9.332 | (0.966) | 358477 | 24.7563 | 24.75 |
| 79 | 1,2,4-Trimethylbenzene | 105 | 9.377 | 9.377 | (0.971) | 422677 | 24.1036 | 24.10 |
| 81 | sec-Butylbenzene | 105 | 9.519 | 9.519 | (0.985) | 508916 | 24.9196 | 24.91 |
| 82 | p-Isopropyltoluene | 119 | 9.647 | 9.647 | (0.998) | 445404 | 24.9108 | 24.91 |
| 83 | 1,3-Dichlorobenzene | 146 | 9.606 | 9.602 | (0.994) | 241215 | 23.0910 | 23.09 |
| 84 | 1,4-Dichlorobenzene | 146 | 9.681 | 9.681 | (1.002) | 252499 | 22.5823 | 22.58 |
| 87 | n-Butylbenzene | 91 | 9.992 | 9.992 | (1.034) | 394473 | 25.9036 | 25.90 |
| 88 | 1,2-Dichlorobenzene | 146 | 9.992 | 9.992 | (1.034) | 240879 | 23.2397 | 23.23 |
| 89 | 1,2-Dibromo-3-Chloropropane | 155 | 10.655 | 10.655 | (1.103) | 23977 | 23.3524 | 23.35 |
| 90 | 1,2,4-Trichlorobenzene | 180 | 11.337 | 11.334 | (1.173) | 168901 | 23.4252 | 23.42 |
| 91 | Hexachlorobutadiene | 225 | 11.476 | 11.480 | (1.188) | 78687 | 24.3125 | 24.31 |
| 92 | Naphthalene | 128 | 11.540 | 11.540 | (1.194) | 393455 | 24.2403 | 24.24 |
| 93 | 1,2,3-Trichlorobenzene | 180 | 11.739 | 11.739 | (1.215) | 157355 | 23.7173 | 23.71 |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 211771 | 41.4905 | 41.49 |
| M 95 | Xylenes (total) | 106 | | | | 596476 | 69.9242 | 69.92 |
| 141 | Cyclohexane | 56 | 4.121 | 4.121 | (0.986) | 158016 | 24.4886 | 24.48 |
| 138 | Freon TF | 101 | 1.917 | 1.917 | (0.459) | 89605 | 25.7019 | 25.70 |
| 147 | Methylcyclohexane | 55 | 5.381 | 5.377 | (1.084) | 275566 | 26.5796 | 26.57 |
| 146 | Methyl Acetate | 43 | 2.236 | 2.236 | (0.535) | 64104 | 21.3955 | 21.39 |
| 148 | Tert-Butyl alcohol | 59 | 2.431 | 2.431 | (0.581) | 216226 | 415.971 | 415.97 |
| 149 | Isopropyl Alcohol | 45 | 2.097 | 2.093 | (0.502) | 116513 | 406.077 | 406.07 |

QC Flag Legend

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




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Sample Info: HS230607Z2-05HSD;HS230607Z2-05HSD;3;;HSD
Purge Volume: 5.0
Column phase: DB624

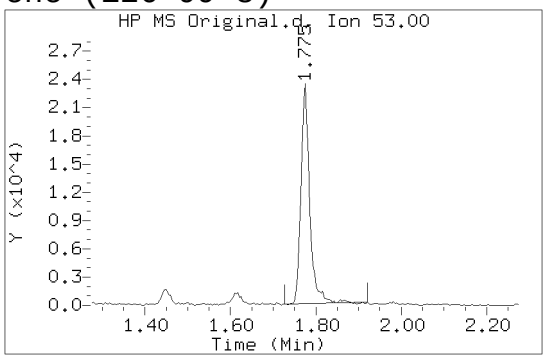
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 17-JUN-2023 14:47
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LabSampID : HS23060722-05MSD

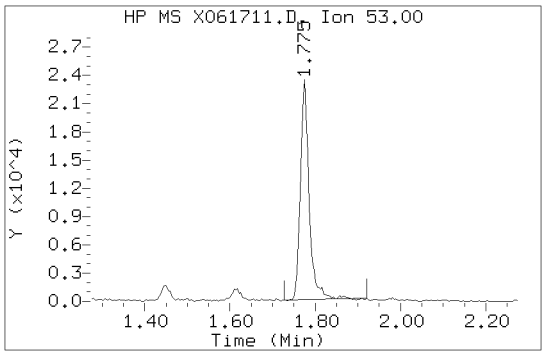
## Chloroprene (126-99-8)

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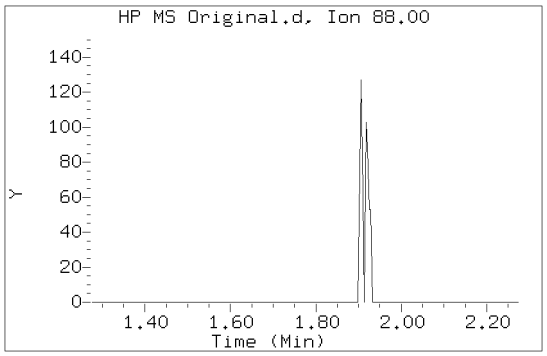
**BEFORE**
MASS
53
AREA
33827
HEIGHT
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19-Jun-2023
12:25



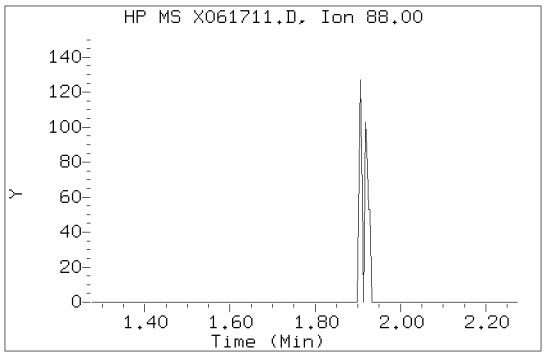

**AFTER**
MASS
53
AREA
33827
HEIGHT
23336
20-Jun-2023
17:14




**BEFORE**
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88
AREA
0
HEIGHT
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19-Jun-2023
12:25



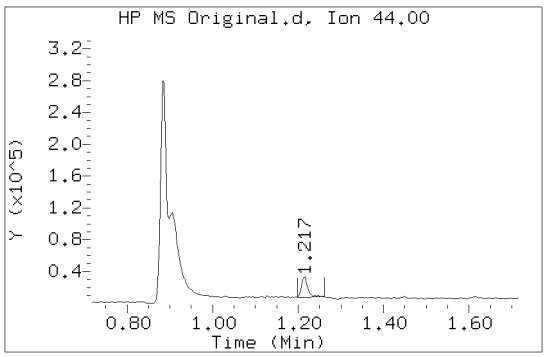

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20-Jun-2023
17:14



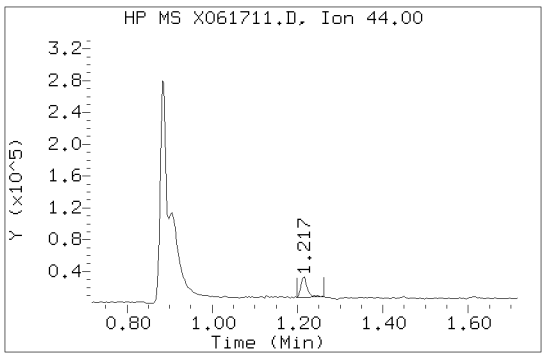

## Acetaldehyde (75-07-0)

Reason Code:

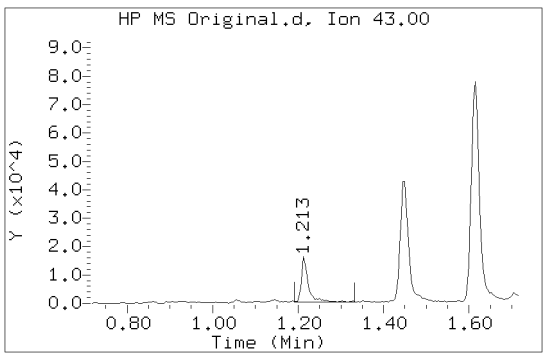
**BEFORE**
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26771
HEIGHT
25485
19-Jun-2023
12:25



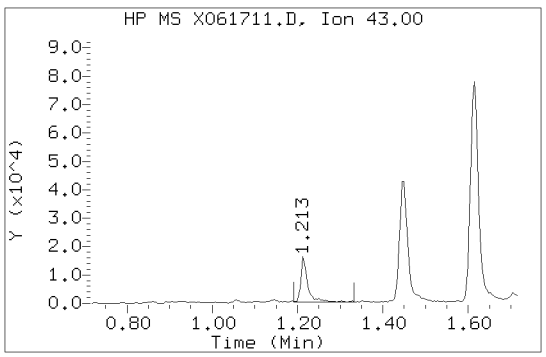

**AFTER**
MASS
44
AREA
26771
HEIGHT
25485
20-Jun-2023
17:14




**BEFORE**
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AREA
18605
HEIGHT
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19-Jun-2023
12:25




**AFTER**
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43
AREA
18605
HEIGHT
15982
20-Jun-2023
17:14



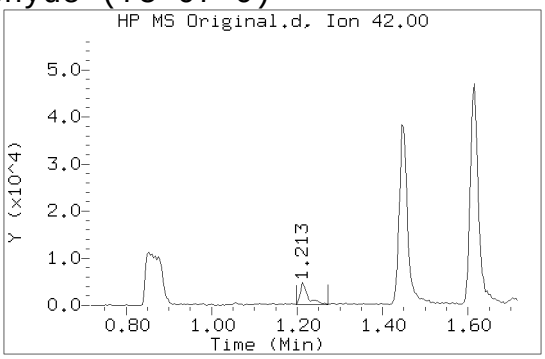
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Inj Date : 17-JUN-2023 14:47
InstruID : voa6.i
LabSampID : HS23060722-05MSD

Acetaldehyde (75-07-0)

Reason Code:

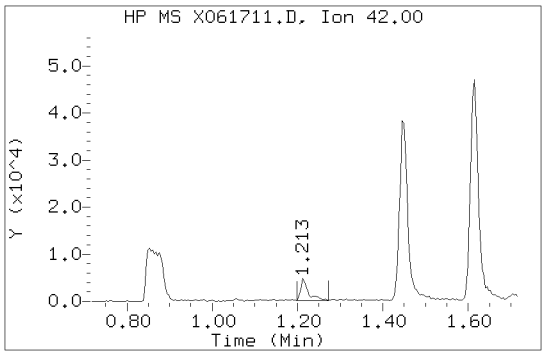
BEFORE

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5896
HEIGHT
4698
19-Jun-2023
12:25




AFTER

MASS
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AREA
5896
HEIGHT
4698
20-Jun-2023
17:14



ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061724.D
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Inj Date : 17-JUN-2023 19:20
Operator : PC Inst ID: voa6.i
Smp Info : HS23060999-01;HS23060999-01;;;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\8260W.m
Meth Date : 20-Jun-2023 17:15 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.181 | 4.178 | (1.000) | 489011 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.980) | 221057 | 50.6213 | 50.62 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 246173 | 52.2585 | 52.25 |
| * 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 715022 | 50.0000 | |
| * 47 Chlorobenzene-d5 | 117 | 7.668 | 7.668 | (1.000) | 646148 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.386 | 6.386 | (0.833) | 853726 | 52.2603 | 52.26 |
| $ 69 4-Bromofluorobenzene | 95 | 8.687 | 8.687 | (1.133) | 309486 | 49.0488 | 49.04 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 | (1.000) | 338724 | 50.0000 | |

01195641

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061724.D



Date : 17-JUN-2023 19:20

Client ID: HS23060999-01

Instrument: voa6.i

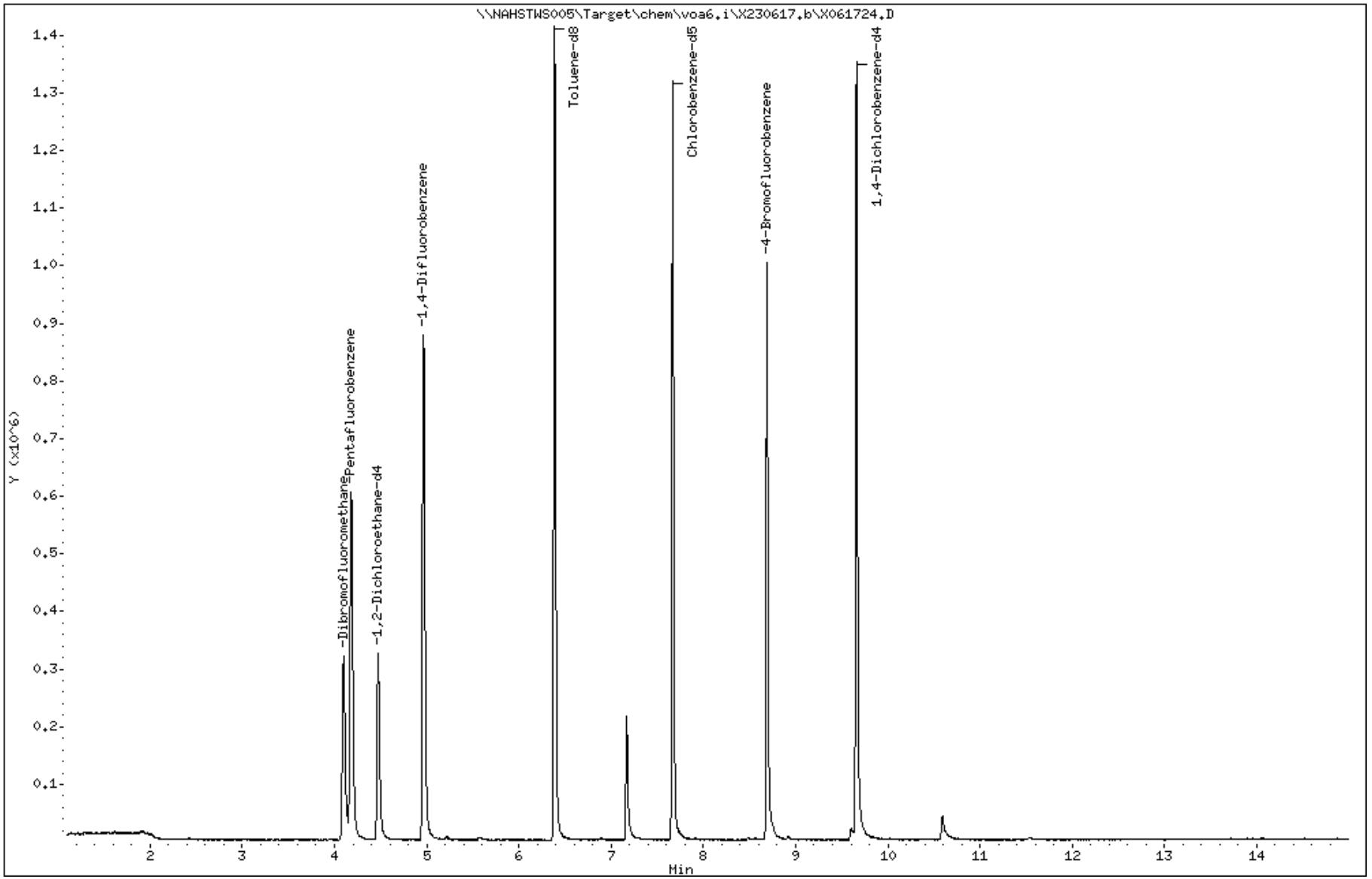
Sample Info: HS23060999-01;HS23060999-01;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061724.D
Inj Date  : 17-JUN-2023 19:20
InstruID  : voa6.i
LabSampID : HS23060999-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061725.D  Page 1
Report Date: 20-Jun-2023 17:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061725.D
Lab Smp Id: HS23060999-02  Client Smp ID: HS23060999-02
Inj Date  : 17-JUN-2023 19:41
Operator  : PC  Inst ID: voa6.i
Smp Info  : HS23060999-02;HS23060999-02;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\8260W.m
Meth Date : 20-Jun-2023 17:15 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * | 1 Pentafluorobenzene | 168 | 4.181 | 4.178 | (1.000) | 496361 | 50.0000 | |
| | 20 trans-1,2-Dichloroethene | 96 | 2.543 | 2.528 | (0.608) | 4767 | 1.02517 | 1.02(a) |
| | 27 cis-1,2-Dichloroethene | 96 | 3.525 | 3.525 | (0.843) | 175698 | 32.7657 | 32.76 |
| $ | 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.980) | 223614 | 50.4474 | 50.44 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 250364 | 52.3629 | 52.36 |
| * | 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 721011 | 50.0000 | |
| | 37 Benzene | 78 | 4.515 | 4.511 | (0.909) | 25150 | 1.35606 | 1.35(a) |
| | 38 Trichloroethene | 130 | 5.208 | 5.205 | (1.049) | 50074 | 9.79236 | 9.79 |
| * | 47 Chlorobenzene-d5 | 117 | 7.667 | 7.668 | (1.000) | 638889 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.385 | 6.386 | (0.833) | 856883 | 53.0495 | 53.04 |
| $ | 69 4-Bromofluorobenzene | 95 | 8.691 | 8.687 | (1.133) | 300529 | 48.1608 | 48.16 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 | (1.000) | 315655 | 50.0000 | |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 180465 | 33.7908 | 33.79 |

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01195644

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061725.D



Date : 17-JUN-2023 19:41

Client ID: HS23060999-02

Instrument: voa6.i

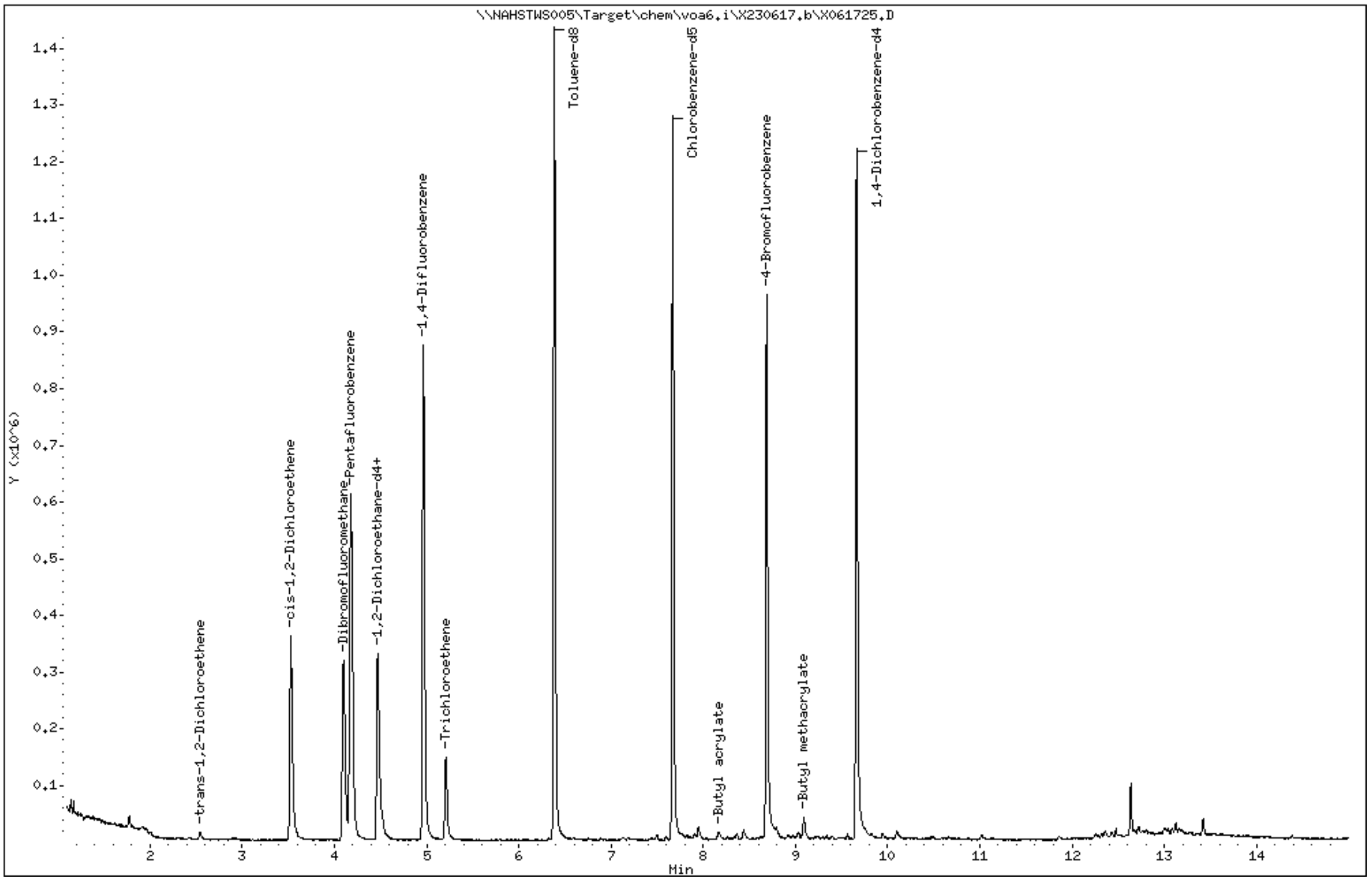
Sample Info: HS23060999-02;HS23060999-02;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061725.D Page 2

Date : 17-JUN-2023 19:41

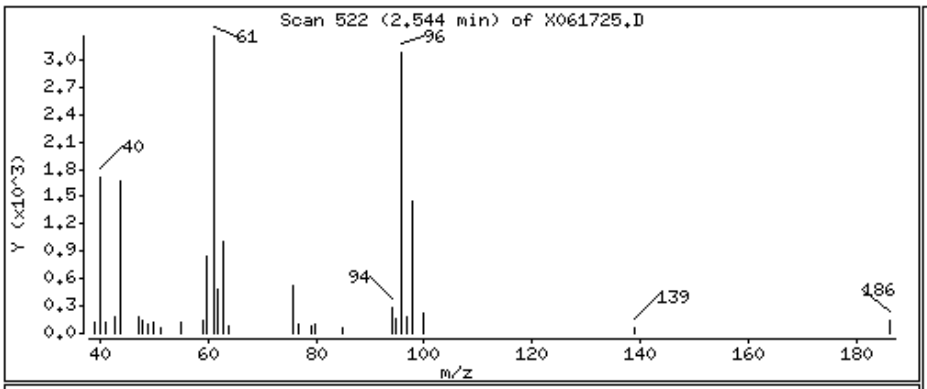
Client ID: HS23060999-02 Instrument: voa6.i

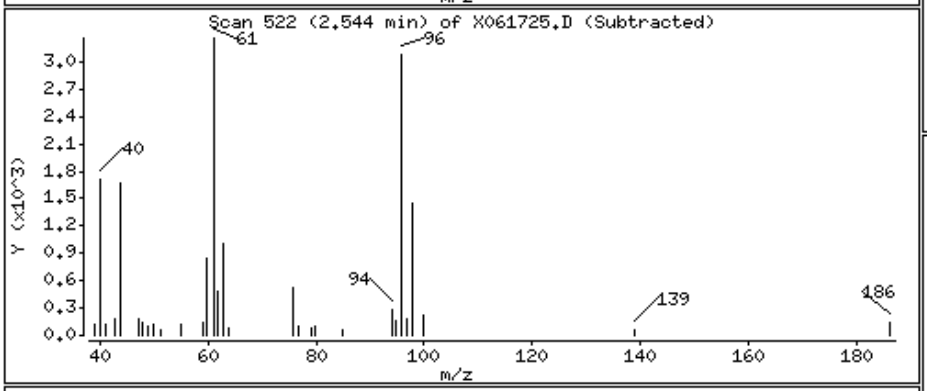
Sample Info: HS23060999-02;HS23060999-02;;;

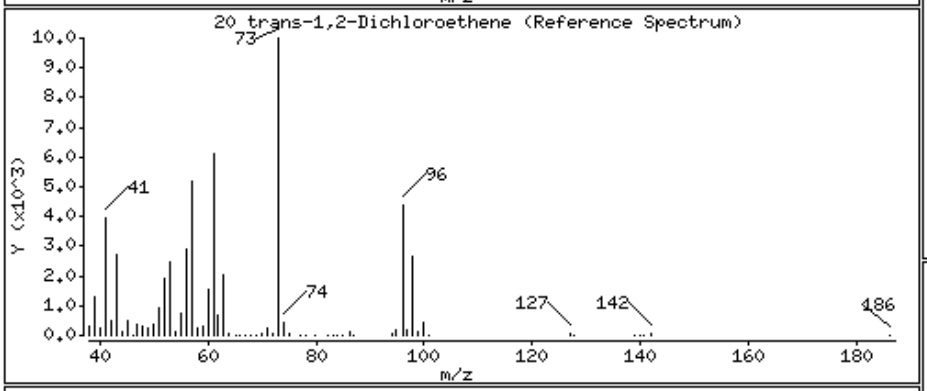
Purge Volume: 5.0 Operator: PC

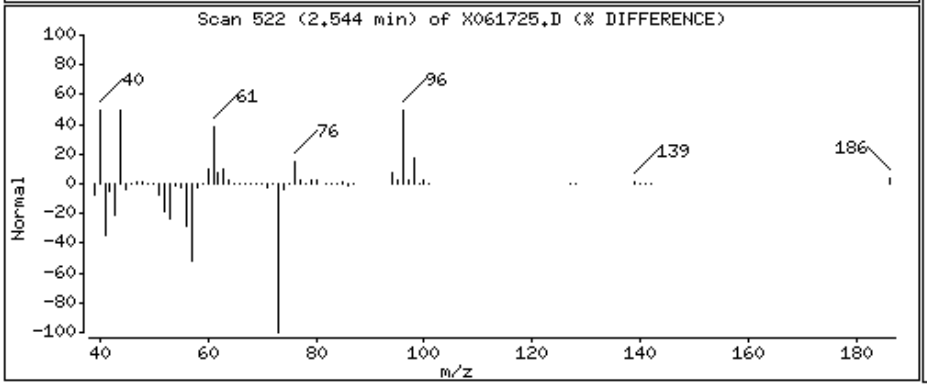
Column phase: DB624 Column diameter: 0.18

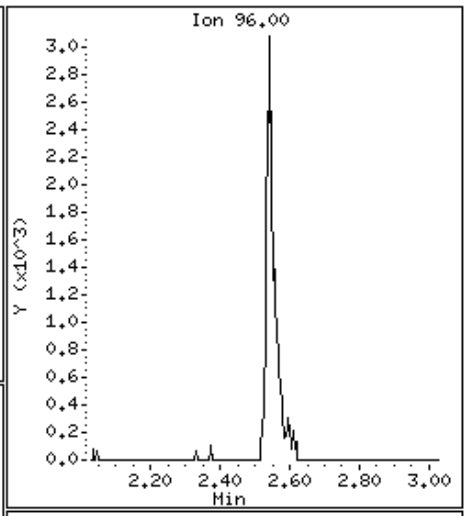
20 trans-1,2-Dichloroethene Concentration: 1.02 ug/l

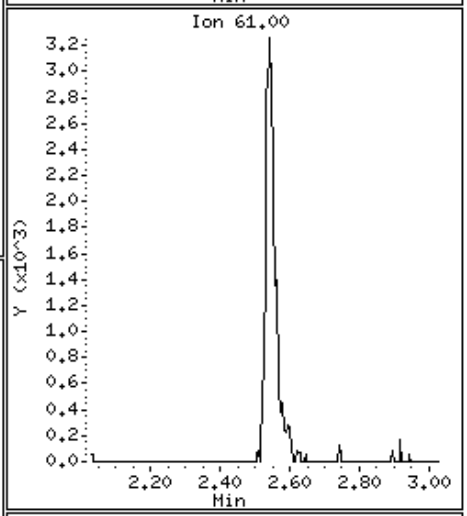


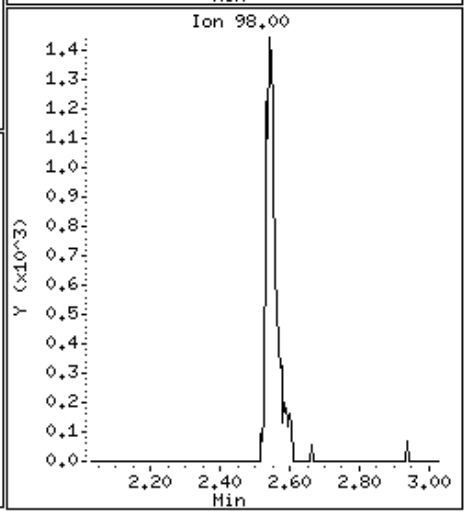



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061725.D 

Date : 17-JUN-2023 19:41

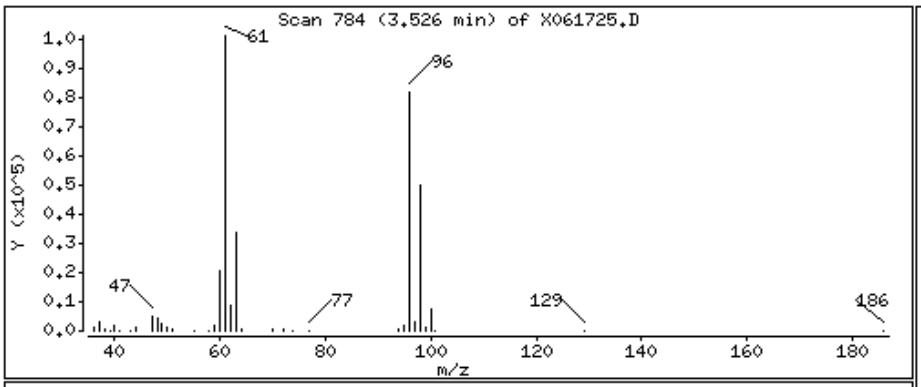
Client ID: HS23060999-02 Instrument: voa6.i

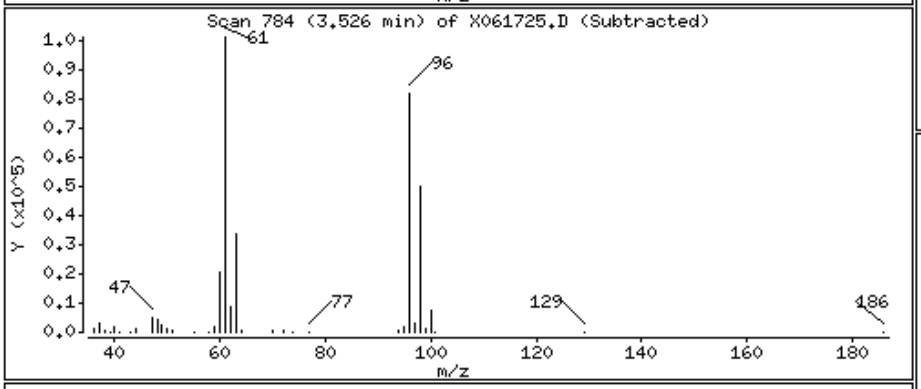
Sample Info: HS23060999-02;HS23060999-02;;;

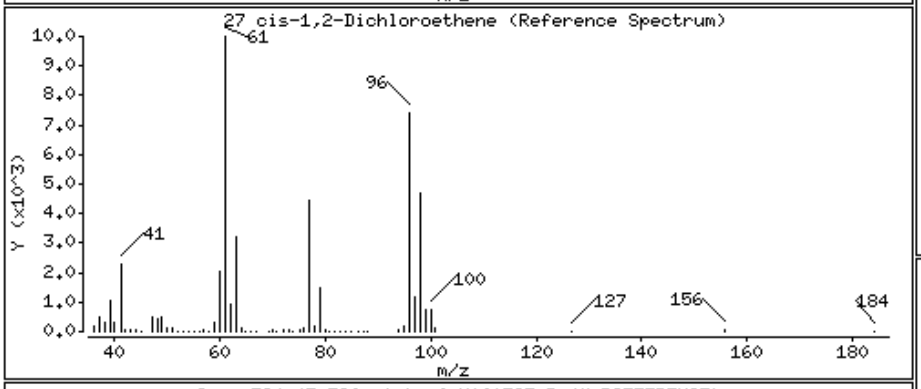
Purge Volume: 5.0 Operator: PC

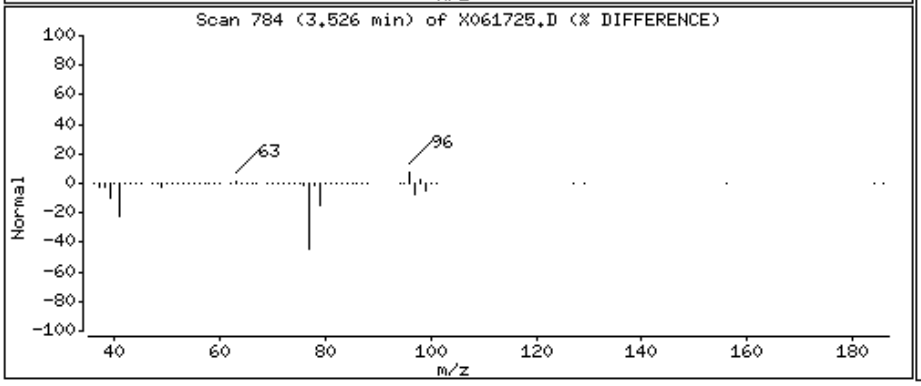
Column phase: DB624 Column diameter: 0.18

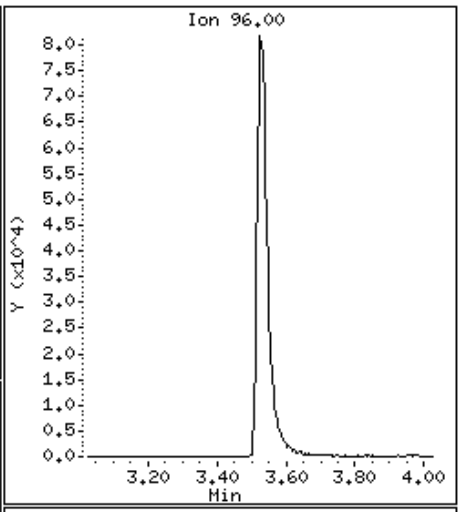
27 cis-1,2-Dichloroethene Concentration: 32.76 ug/l

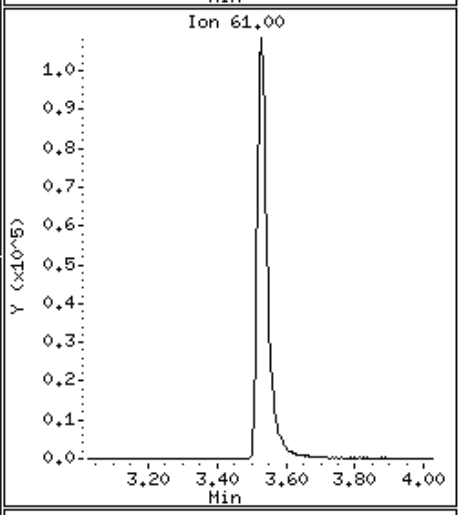


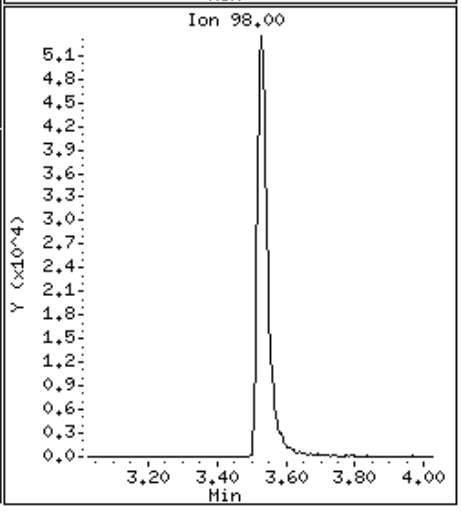



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061725.D

Date : 17-JUN-2023 19:41

Client ID: HS23060999-02

Instrument: voa6.i

Sample Info: HS23060999-02;HS23060999-02;;;

Purge Volume: 5.0

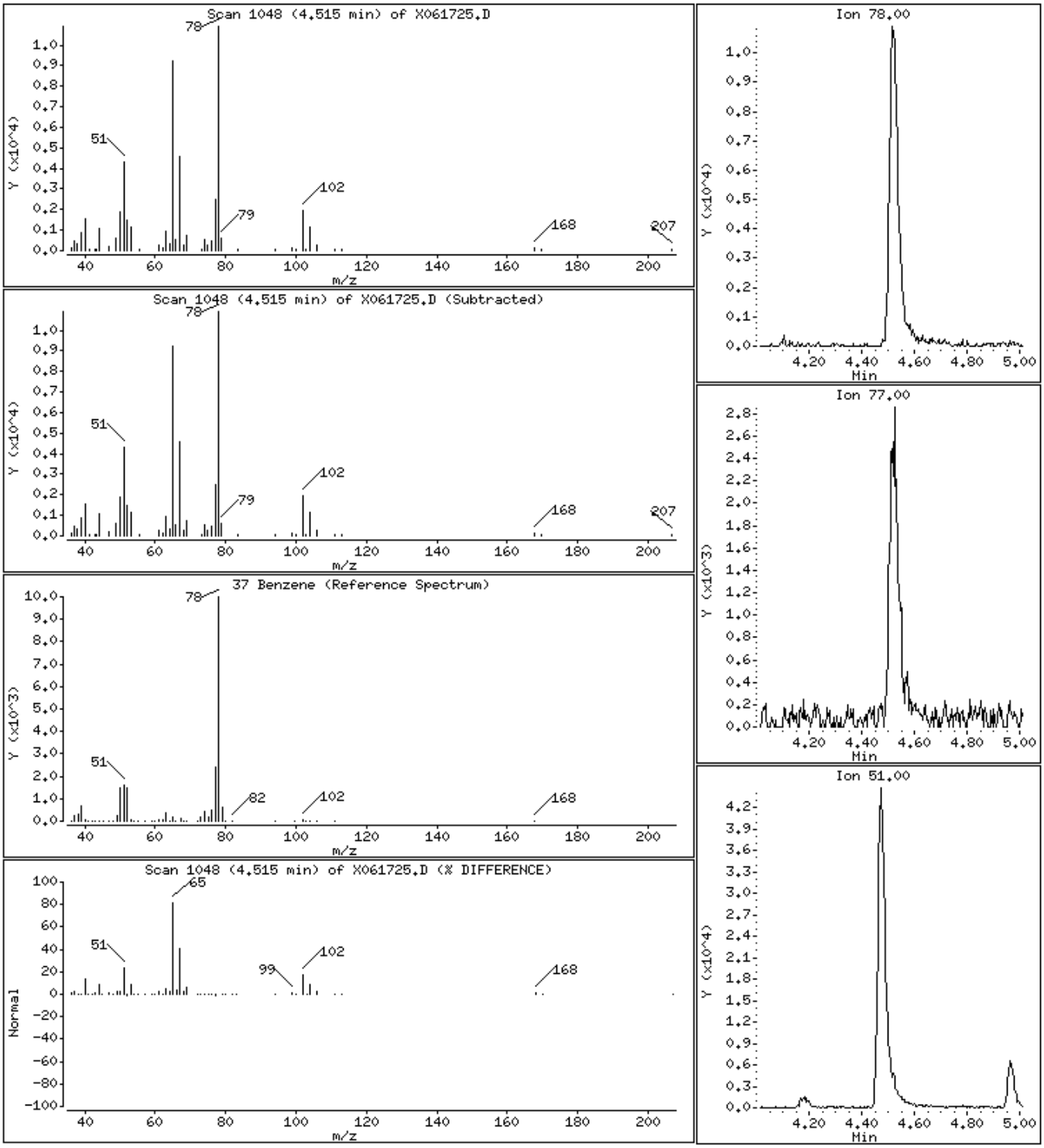
Operator: PC

Column phase: DB624

Column diameter: 0.18

37 Benzene

Concentration: 1.35 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061725.D



Date : 17-JUN-2023 19:41

Client ID: HS23060999-02

Instrument: voa6.i

Sample Info: HS23060999-02;HS23060999-02;;;

Purge Volume: 5.0

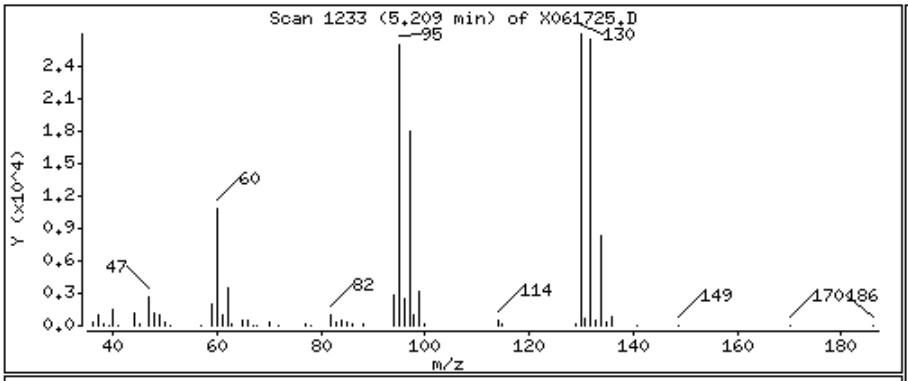
Operator: PC

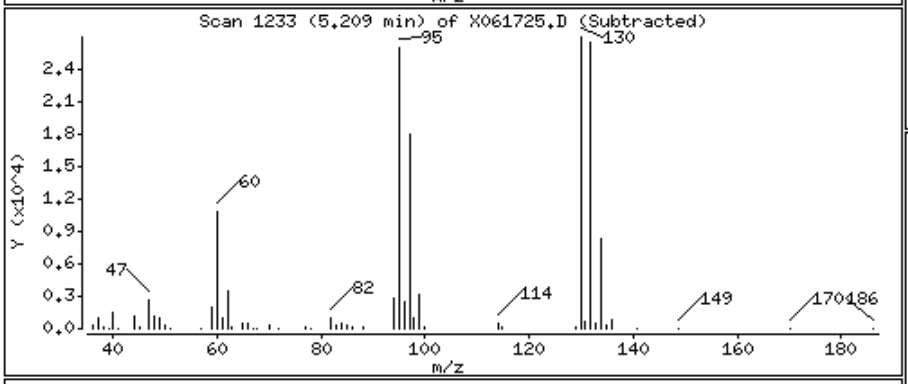
Column phase: DB624

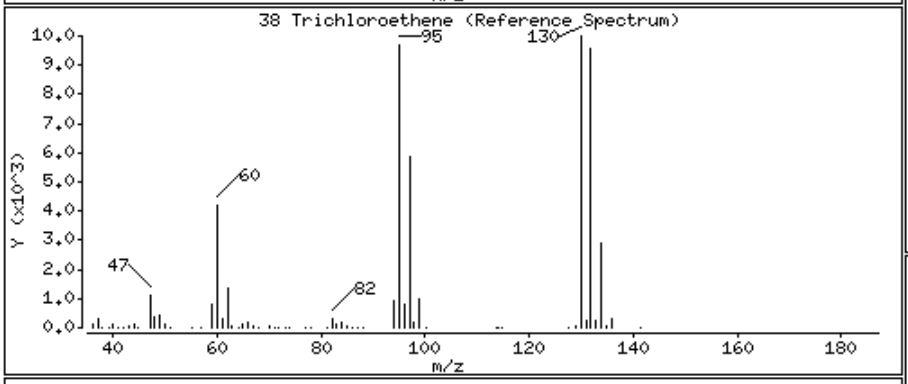
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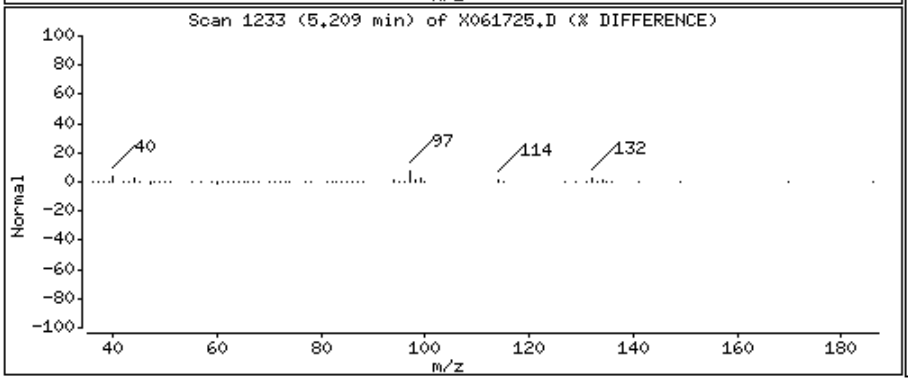
38 Trichloroethene

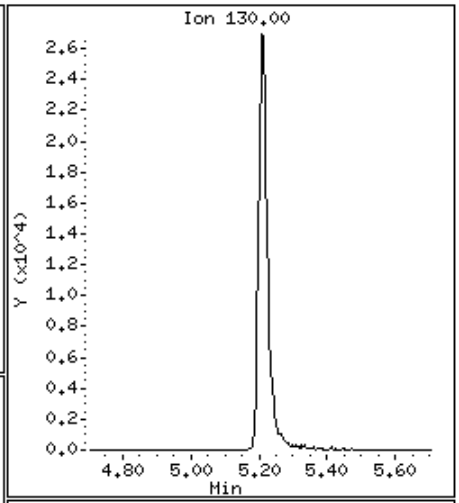
Concentration: 9.79 ug/l

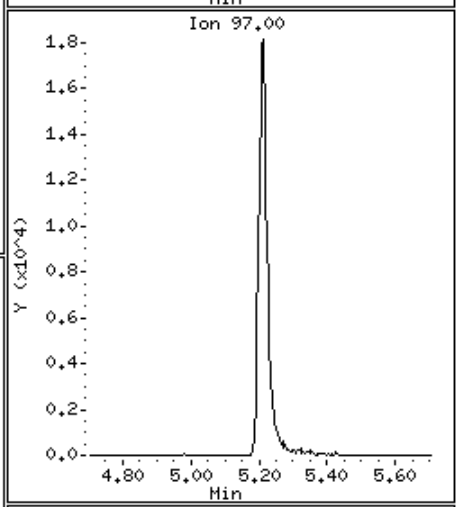


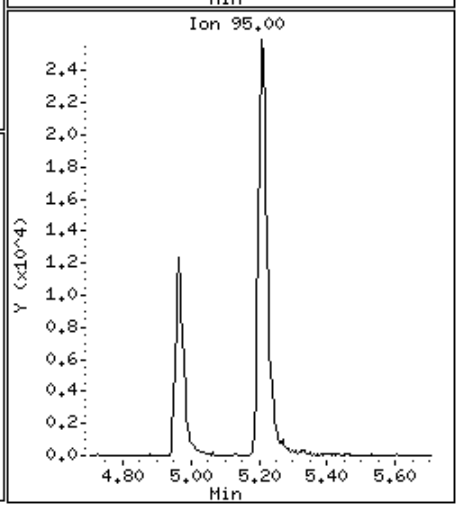



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Inj Date  : 17-JUN-2023 19:41
InstruID  : voa6.i
LabSampID : HS23060999-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061726.D  Page 1
Report Date: 20-Jun-2023 17:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061726.D
Lab Smp Id: HS23060999-05  Client Smp ID: HS23060999-05
Inj Date  : 17-JUN-2023 20:02
Operator  : PC  Inst ID: voa6.i
Smp Info  : HS23060999-05;HS23060999-05;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\8260W.m
Meth Date : 20-Jun-2023 17:15 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.181 | 4.178 | (1.000) | 477430 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.980) | 213169 | 49.9948 | 49.99 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 245704 | 53.4433 | 53.44 |
| * 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 696975 | 50.0000 | |
| 38 Trichloroethene | 130 | 5.208 | 5.205 | (1.049) | 9873 | 1.99733 | 1.99(a) |
| * 47 Chlorobenzene-d5 | 117 | 7.668 | 7.668 | (1.000) | 612321 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.385 | 6.386 | (0.833) | 827584 | 53.4587 | 53.45 |
| $ 69 4-Bromofluorobenzene | 95 | 8.687 | 8.687 | (1.133) | 294289 | 49.2187 | 49.21 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 | (1.000) | 313323 | 50.0000 | |

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01195651

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061726.D



Date : 17-JUN-2023 20:02

Client ID: HS23060999-05

Instrument: voa6.i

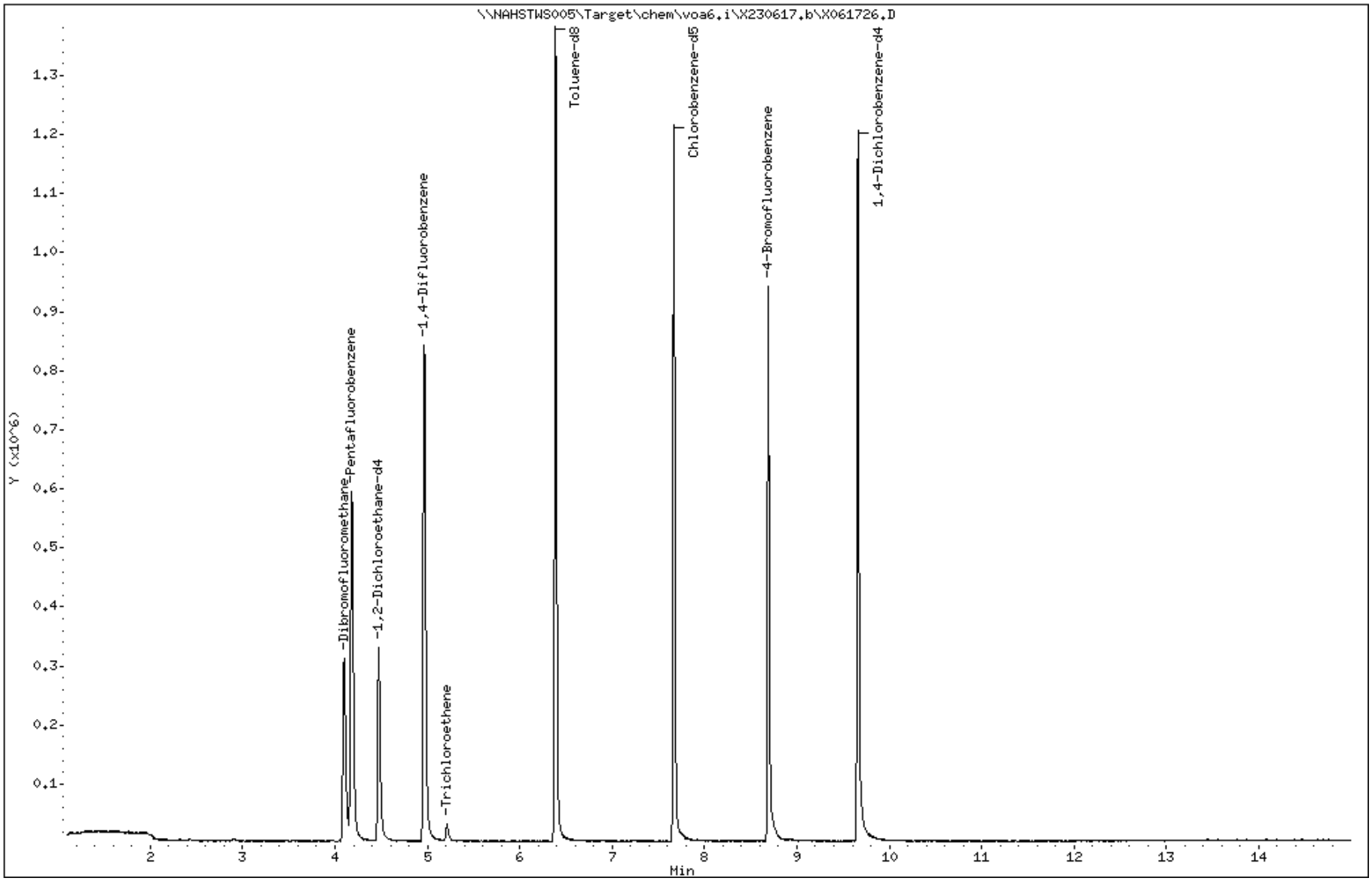
Sample Info: HS23060999-05;HS23060999-05;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061726.D



Date : 17-JUN-2023 20:02

Client ID: HS23060999-05

Instrument: voa6.i

Sample Info: HS23060999-05;HS23060999-05;;;

Purge Volume: 5.0

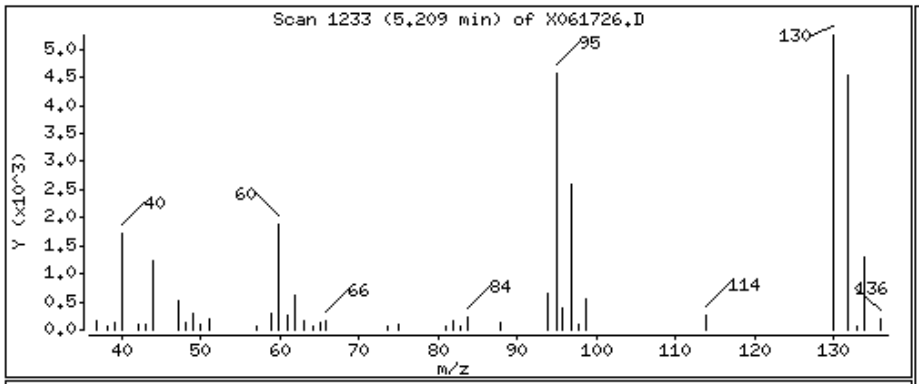
Operator: PC

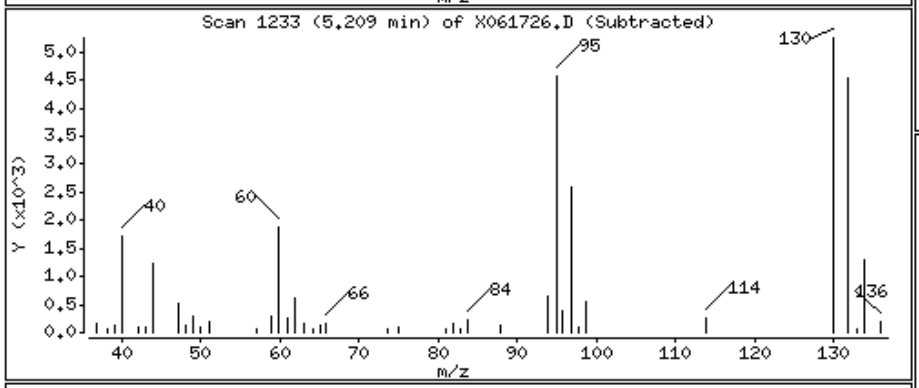
Column phase: DB624

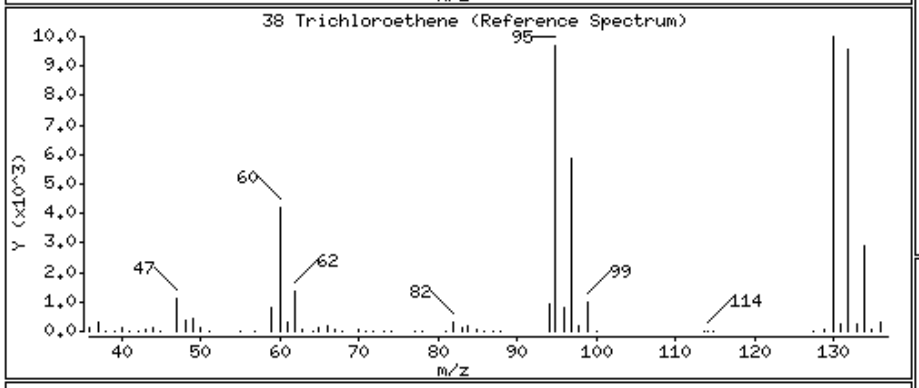
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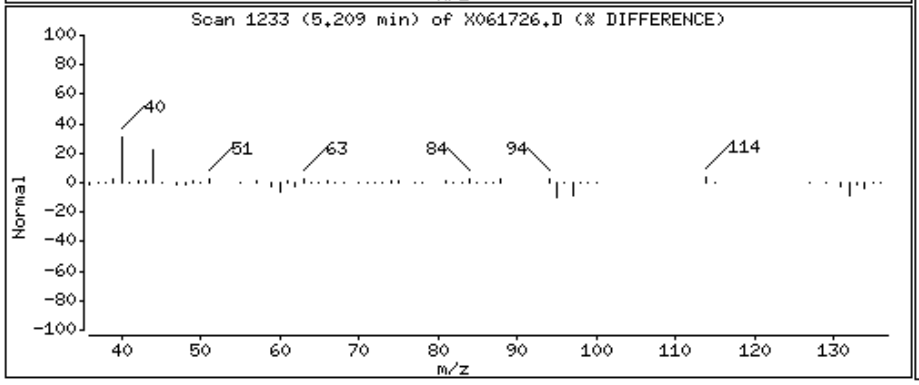
38 Trichloroethene

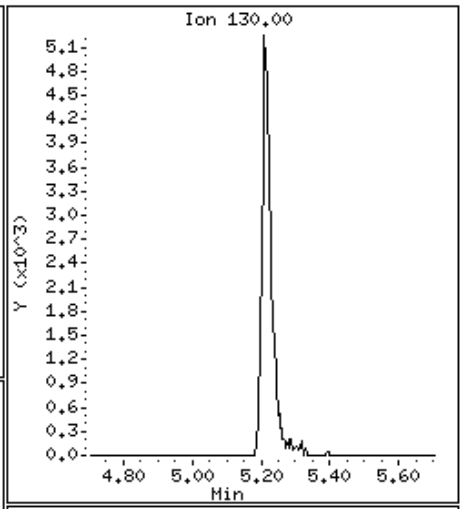
Concentration: 1.99 ug/l

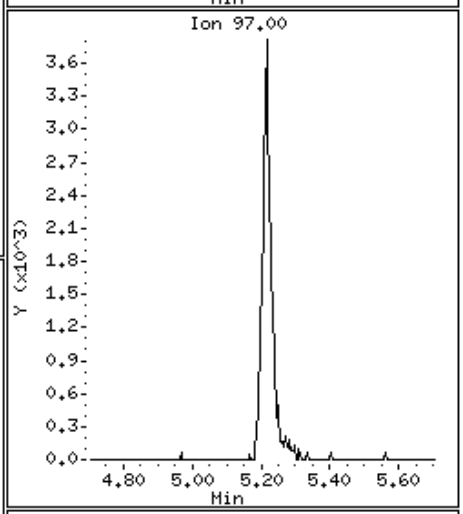


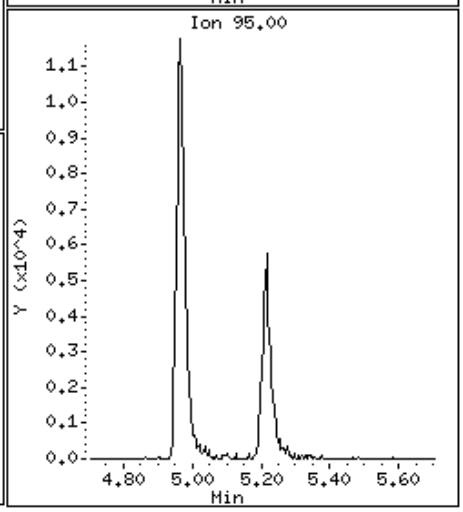



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061726.D
Inj Date  : 17-JUN-2023 20:02
InstruID  : voa6.i
LabSampID : HS23060999-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061727.D  Page 1
Report Date: 20-Jun-2023 17:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061727.D
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Inj Date  : 17-JUN-2023 20:23
Operator  : PC  Inst ID: voa6.i
Smp Info  : HS23060999-06;HS23060999-06;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\8260W.m
Meth Date : 20-Jun-2023 17:15 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.181 | 4.178 | (1.000) | 490038 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.980) | 222515 | 50.8500 | 50.84 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 250455 | 53.0692 | 53.06 |
| * 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 721930 | 50.0000 | |
| 38 Trichloroethene | 130 | 5.212 | 5.205 | (1.050) | 4225 | 0.82518 | 0.82(a) |
| * 47 Chlorobenzene-d5 | 117 | 7.668 | 7.668 | (1.000) | 628779 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.386 | 6.386 | (0.833) | 853556 | 53.6932 | 53.69 |
| $ 69 4-Bromofluorobenzene | 95 | 8.687 | 8.687 | (1.133) | 299296 | 48.7408 | 48.74 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 | (1.000) | 312590 | 50.0000 | |

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01195655

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061727.D



Date : 17-JUN-2023 20:23

Client ID: HS23060999-06

Instrument: voa6.i

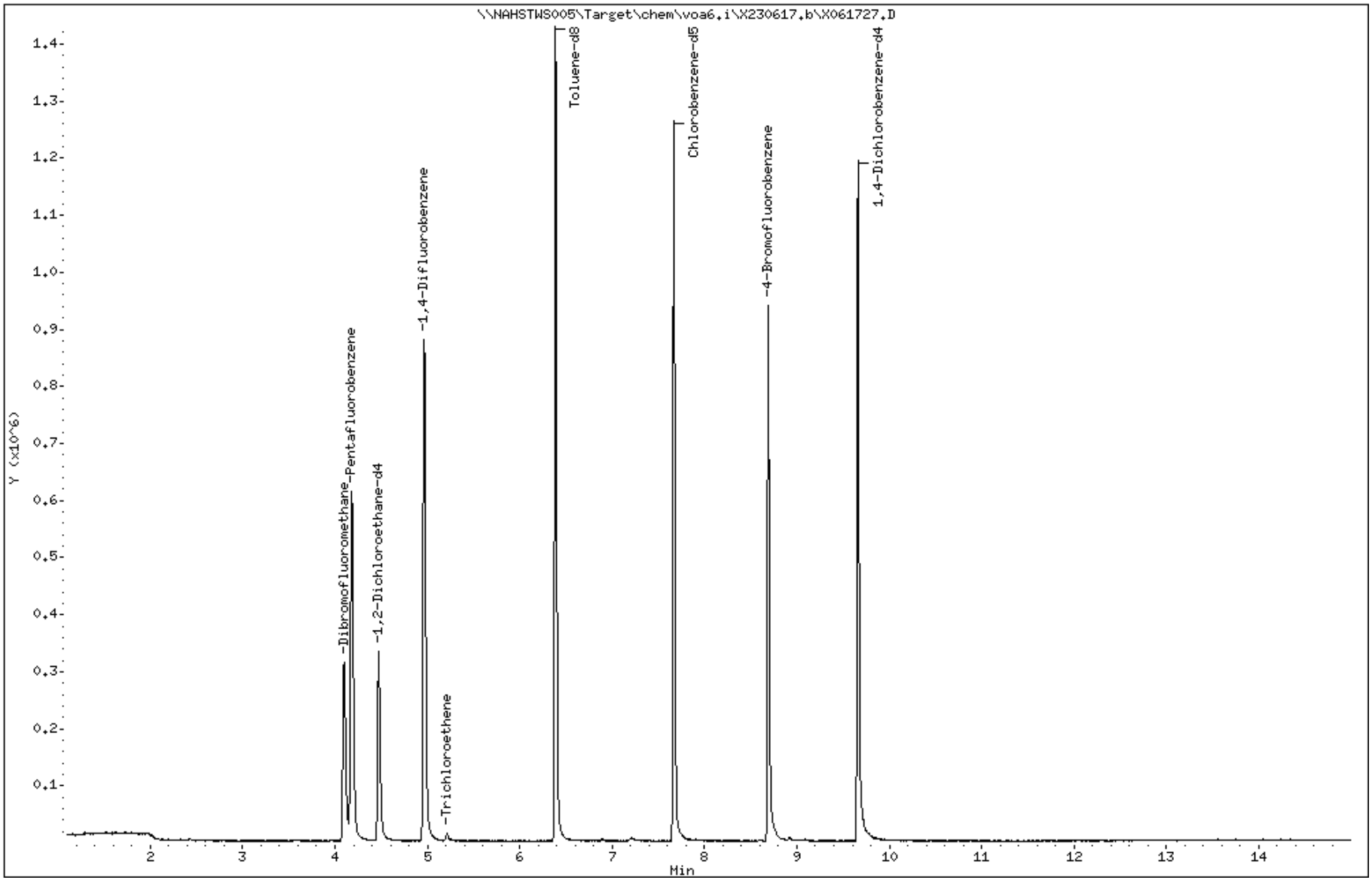
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Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061727.D



Date : 17-JUN-2023 20:23

Client ID: HS23060999-06

Instrument: voa6.i

Sample Info: HS23060999-06;HS23060999-06;;;

Purge Volume: 5.0

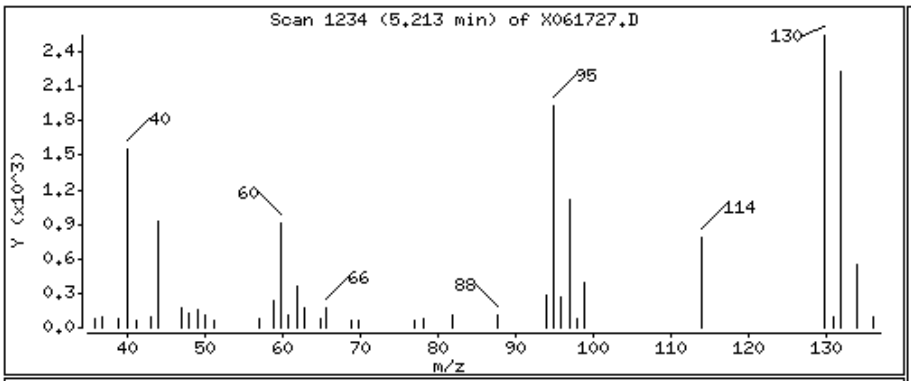
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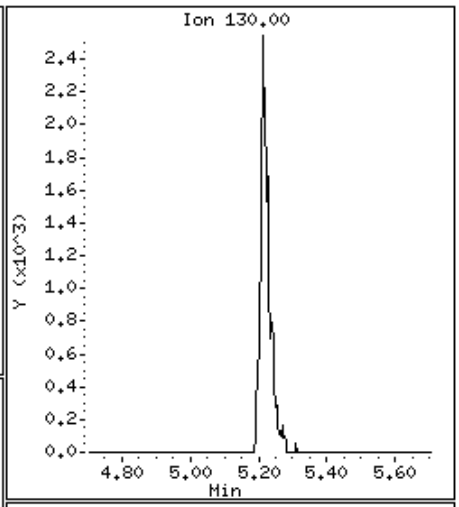
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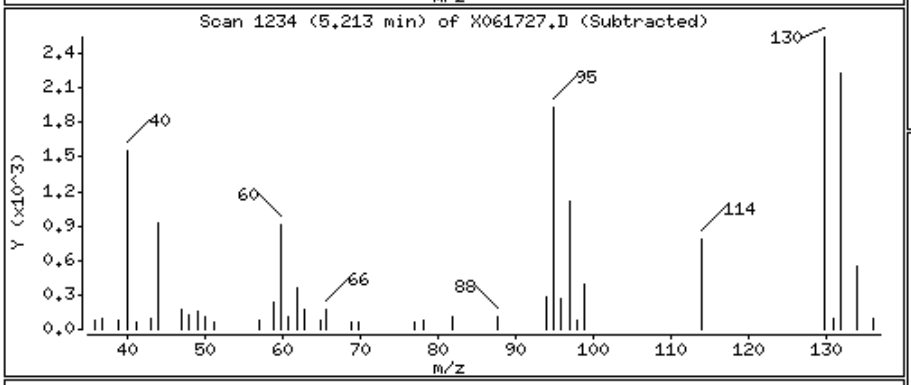
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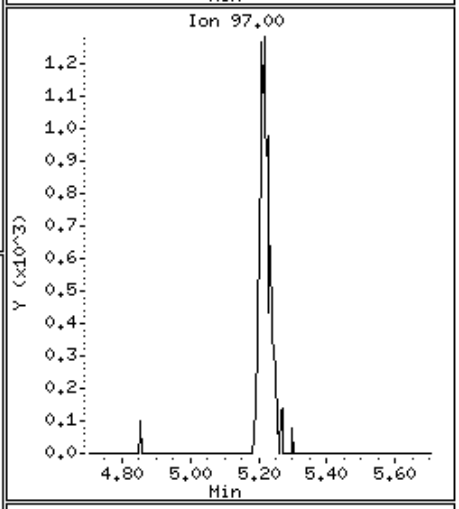
38 Trichloroethene

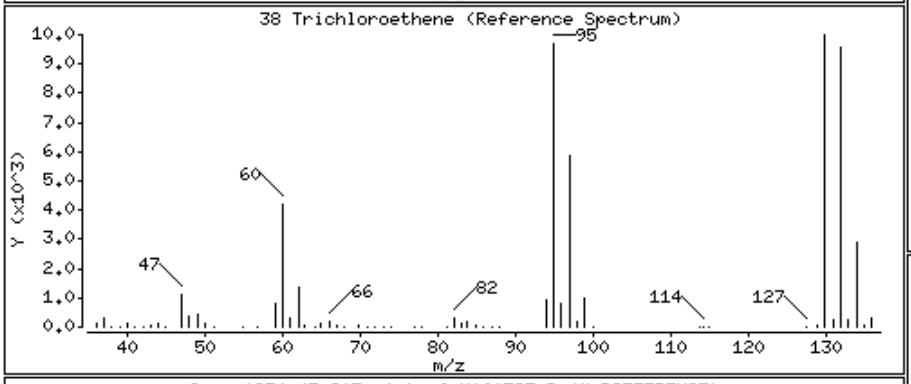
Concentration: 0.82 ug/l

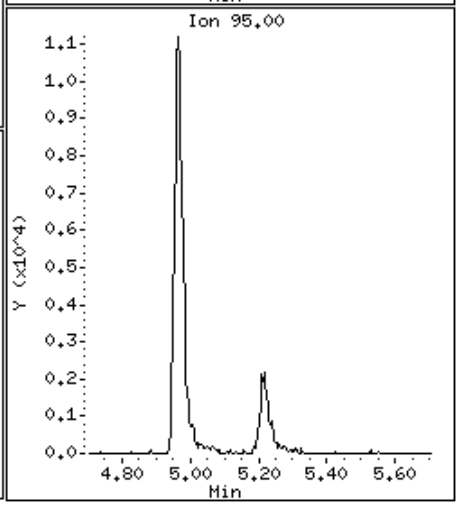


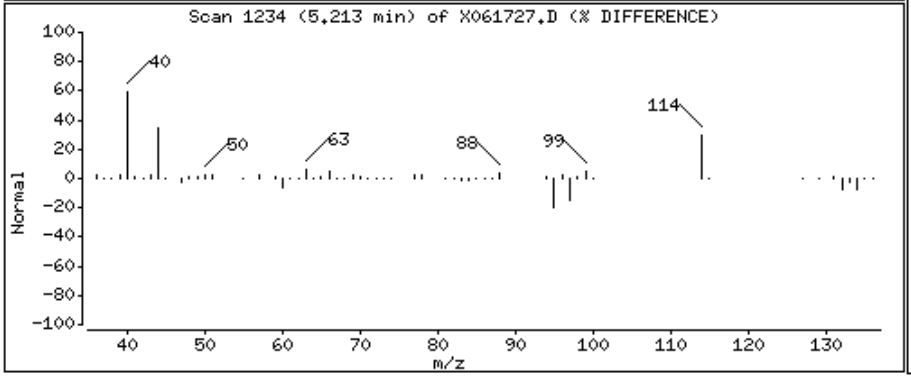



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Inj Date  : 17-JUN-2023 20:23
InstruID  : voa6.i
LabSampID : HS23060999-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061731.D  Page 1
Report Date: 21-Jun-2023 15:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061731.D
Lab Smp Id: CCV-END  Client Smp ID: CCV-END
Inj Date  : 17-JUN-2023 21:47
Operator  : PC  Inst ID: voa6.i
Smp Info  : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\8260W.m
Meth Date : 21-Jun-2023 15:59 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 29  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.181 | 4.181 | (1.000) | 462619 | 50.0000 | |
| 135 1,4-Dioxane | 88 | 5.595 | 5.595 | (1.338) | 57320 | 1000.00 | 1022.40 |
| 140 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.279) | 189031 | 50.0000 | 49.30 |
| 25 Methacrylonitrile | 41 | 3.825 | 3.825 | (0.915) | 205894 | 50.0000 | 53.93 |
| 12 Isobutyl Alcohol | 43 | 4.672 | 4.672 | (1.117) | 631436 | 1000.00 | 1046.79 |
| 13 Acetonitrile | 39 | 2.198 | 2.198 | (0.526) | 246934 | 500.000 | 550.31 |
| 14 Allyl Chloride | 41 | 2.198 | 2.198 | (0.526) | 529916 | 50.0000 | 52.23 |
| 4 Propionitrile | 54 | 3.649 | 3.649 | (0.873) | 306017 | 500.000 | 546.96 |
| 72 trans-1,4-Dichloro-2-butene | 53 | 8.886 | 8.886 | (1.159) | 76918 | 50.0000 | 45.59 |
| 194 Acetaldehyde | 44 | 1.216 | 1.216 | (0.291) | 49445 | 200.000 | 203.14(M) |
| 23 Chloroprene | 53 | 1.775 | 1.775 | (0.424) | 70395 | 50.0000 | 45.78(M) |
| 130 Ethyl Acetate | 43 | 3.656 | 3.656 | (0.875) | 233520 | 50.0000 | 49.51 |
| 40 Methyl Methacrylate | 41 | 5.606 | 5.606 | (1.341) | 194634 | 50.0000 | 54.34 |
| 49 Ethyl Methacrylate | 69 | 6.708 | 6.708 | (1.351) | 241406 | 50.0000 | 46.18 |
| 131 Methyl Acrylate | 55 | 3.686 | 3.686 | (0.882) | 216237 | 50.0000 | 57.71 |
| 136 n-Hexane | 57 | 2.772 | 2.772 | (0.663) | 204124 | 50.0000 | 48.28 |
| 156 Diisopropyl ether | 45 | 3.000 | 3.000 | (0.718) | 685518 | 50.0000 | 50.24 |
| 166 1,2,3-Trimethylbenzene | 105 | 9.729 | 9.729 | (1.007) | 932096 | 50.0000 | 50.38 |
| 2 Dichlorodifluoromethane | 85 | 0.976 | 0.976 | (0.234) | 194068 | 50.0000 | 48.72 |
| 3 Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 219280 | 50.0000 | 44.94 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5 Vinyl Chloride | 62 | 1.145 | 1.145 (0.274) | 234192 | 50.0000 | 48.20 |
| 6 Bromomethane | 94 | 1.344 | 1.344 (0.321) | 119407 | 50.0000 | 42.81 |

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061731.D Page 2
Report Date: 21-Jun-2023 15:59

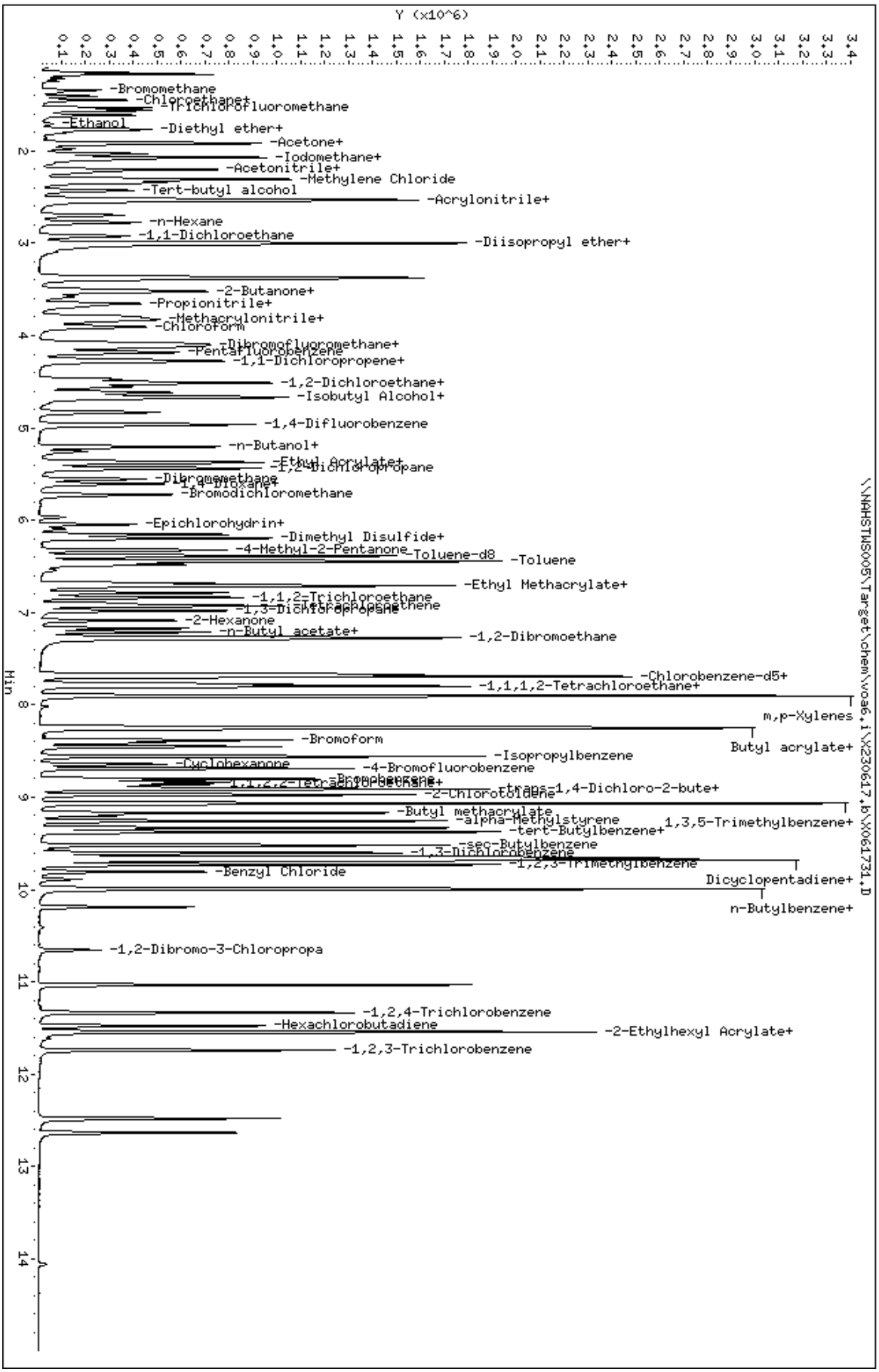
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 7 Chloroethane | 64 | 1.407 | 1.407 | (0.337) | 146390 | 50.0000 | 49.29 |
| | 8 Trichlorofluoromethane | 101 | 1.561 | 1.561 | (0.373) | 284829 | 50.0000 | 49.33 |
| | 9 Acrolein | 56 | 1.449 | 1.449 | (0.347) | 27694 | 100.000 | 96.47 |
| | 10 Acetone | 43 | 1.973 | 1.973 | (0.472) | 110038 | 100.000 | 91.19 |
| | 11 1,1-Dichloroethene | 96 | 1.917 | 1.917 | (0.459) | 172561 | 50.0000 | 47.64 |
| | 15 Iodomethane | 142 | 2.030 | 2.030 | (0.485) | 455970 | 100.000 | 76.66 |
| | 16 Acrylonitrile | 53 | 2.536 | 2.536 | (0.606) | 150361 | 100.000 | 102.39 |
| | 17 Methylene Chloride | 84 | 2.303 | 2.303 | (0.551) | 236275 | 50.0000 | 46.18 |
| | 18 Methyl tert-butyl ether | 73 | 2.536 | 2.536 | (0.606) | 621489 | 50.0000 | 49.16 |
| | 19 Carbon Disulfide | 76 | 2.071 | 2.071 | (0.495) | 1093384 | 100.000 | 84.78 |
| | 20 trans-1,2-Dichloroethene | 96 | 2.528 | 2.528 | (0.605) | 206842 | 50.0000 | 47.72 |
| | 21 Vinyl Acetate | 43 | 2.997 | 2.997 | (0.717) | 1252050 | 100.000 | 108.24 |
| | 22 1,1-Dichloroethane | 63 | 2.922 | 2.922 | (0.699) | 386647 | 50.0000 | 49.52 |
| | 24 2-Butanone | 43 | 3.578 | 3.578 | (0.856) | 155091 | 100.000 | 101.86 |
| | 26 2,2-Dichloropropane | 77 | 3.507 | 3.507 | (0.839) | 284615 | 50.0000 | 46.19 |
| | 27 cis-1,2-Dichloroethene | 96 | 3.525 | 3.525 | (0.843) | 242655 | 50.0000 | 48.55 |
| | 28 Chloroform | 83 | 3.908 | 3.908 | (0.935) | 403122 | 50.0000 | 47.97 |
| | 29 Bromochloromethane | 128 | 3.795 | 3.795 | (0.908) | 126855 | 50.0000 | 47.63 |
| $ | 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.980) | 226451 | 50.0000 | 54.84 |
| | 31 1,1,1-Trichloroethane | 97 | 4.080 | 4.080 | (0.976) | 327951 | 50.0000 | 48.28 |
| | 32 1,1-Dichloropropene | 75 | 4.279 | 4.279 | (0.862) | 290800 | 50.0000 | 47.59 |
| | 33 1,2-Dichloroethane | 62 | 4.556 | 4.556 | (0.918) | 309966 | 50.0000 | 50.62 |
| | 34 Carbon Tetrachloride | 117 | 4.264 | 4.264 | (0.859) | 273057 | 50.0000 | 46.46 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 247688 | 50.0000 | 55.63 |
| * | 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 729195 | 50.0000 | |
| | 37 Benzene | 78 | 4.511 | 4.511 | (0.909) | 892906 | 50.0000 | 47.60 |
| | 38 Trichloroethene | 130 | 5.205 | 5.205 | (1.048) | 243193 | 50.0000 | 47.02 |
| | 39 Bromodichloromethane | 83 | 5.726 | 5.726 | (1.153) | 315845 | 50.0000 | 47.60 |
| | 41 2-Chloroethylvinyl ether | 63 | 6.048 | 6.048 | (1.218) | 159282 | 100.000 | 88.71 |
| | 42 1,2-Dichloropropane | 63 | 5.433 | 5.433 | (1.094) | 240094 | 50.0000 | 48.76 |
| | 44 Dibromomethane | 93 | 5.550 | 5.550 | (1.118) | 151535 | 50.0000 | 49.03 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.325 | 6.325 | (0.825) | 445705 | 100.000 | 99.54 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.153 | 6.153 | (1.239) | 396451 | 50.0000 | 48.46 |
| * | 47 Chlorobenzene-d5 | 117 | 7.668 | 7.668 | (1.000) | 693141 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.385 | 6.385 | (0.833) | 860569 | 50.0000 | 49.10 |
| | 50 Toluene | 91 | 6.445 | 6.445 | (0.841) | 974144 | 50.0000 | 47.87 |
| | 51 trans-1,3-Dichloropropene | 75 | 6.678 | 6.678 | (1.345) | 334782 | 50.0000 | 48.91 |
| | 52 2-Hexanone | 43 | 7.086 | 7.086 | (0.924) | 301856 | 100.000 | 100.92 |
| | 53 1,1,2-Trichloroethane | 83 | 6.839 | 6.839 | (0.892) | 186834 | 50.0000 | 47.12 |
| | 54 1,3-Dichloropropane | 76 | 6.981 | 6.981 | (0.911) | 385958 | 50.0000 | 48.15 |
| | 55 Dibromochloromethane | 129 | 7.173 | 7.173 | (0.935) | 267108 | 50.0000 | 47.54 |
| | 56 Tetrachloroethene | 164 | 6.925 | 6.925 | (0.903) | 186044 | 50.0000 | 44.46 |
| | 57 1,2-Dibromoethane | 107 | 7.259 | 7.259 | (0.947) | 239837 | 50.0000 | 47.33 |
| | 58 1-Chlorohexane | 55 | 7.694 | 7.694 | (1.550) | 194577 | 50.0000 | 43.87 |
| | 59 Chlorobenzene | 112 | 7.694 | 7.694 | (1.003) | 651277 | 50.0000 | 46.77 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 7.772 | 7.772 | (1.014) | 243230 | 50.0000 | 46.84 |
| | 61 Ethylbenzene | 106 | 7.799 | 7.799 | (1.017) | 327657 | 50.0000 | 45.67 |
| | 62 m,p-Xylenes | 106 | 7.904 | 7.904 | (1.031) | 833393 | 100.000 | 94.20 |
| | 63 o-Xylene | 106 | 8.241 | 8.241 | (1.075) | 406505 | 50.0000 | 46.05 |
| | 64 Styrene | 104 | 8.256 | 8.256 | (1.077) | 697364 | 50.0000 | 47.96 |
| | 66 Bromoform | 173 | 8.410 | 8.410 | (1.097) | 186020 | 50.0000 | 47.49 |
| | 67 Isopropylbenzene | 105 | 8.560 | 8.560 | (1.116) | 995856 | 50.0000 | 45.64 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 68 1,1,2,2-Tetrachloroethane | 83 | 8.837 | 8.837 (0.915) | 317839 | 50.0000 | 46.44 |
| $ | 69 4-Bromofluorobenzene | 95 | 8.687 | 8.687 (1.133) | 345106 | 50.0000 | 51.00 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 | (1.000) | 389222 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 8.863 | 8.863 | (0.917) | 245366 | 50.0000 | 49.99(M) |
| | 73 n-Propylbenzene | 91 | 8.912 | 8.912 | (0.922) | 1175265 | 50.0000 | 45.88 |
| | 74 Bromobenzene | 156 | 8.803 | 8.803 | (0.911) | 295674 | 50.0000 | 46.60 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.066 | 9.066 | (0.938) | 862783 | 50.0000 | 45.90 |
| | 76 2-Chlorotoluene | 91 | 8.972 | 8.972 | (0.929) | 730219 | 50.0000 | 44.89 |
| | 77 4-Chlorotoluene | 91 | 9.069 | 9.069 | (0.939) | 848562 | 50.0000 | 46.77 |
| | 78 tert-Butylbenzene | 119 | 9.332 | 9.332 | (0.966) | 708442 | 50.0000 | 45.24 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.377 | 9.377 | (0.971) | 871521 | 50.0000 | 45.96 |
| | 81 sec-Butylbenzene | 105 | 9.519 | 9.519 | (0.985) | 990278 | 50.0000 | 44.84 |
| | 82 p-Isopropyltoluene | 119 | 9.647 | 9.647 | (0.998) | 873237 | 50.0000 | 45.16 |
| | 83 1,3-Dichlorobenzene | 146 | 9.602 | 9.602 | (0.994) | 515988 | 50.0000 | 45.68 |
| | 84 1,4-Dichlorobenzene | 146 | 9.681 | 9.681 | (1.002) | 536866 | 50.0000 | 44.40 |
| | 87 n-Butylbenzene | 91 | 9.992 | 9.992 | (1.034) | 770750 | 50.0000 | 46.80 |
| | 88 1,2-Dichlorobenzene | 146 | 9.992 | 9.992 | (1.034) | 511678 | 50.0000 | 45.65 |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 10.655 | 10.655 | (1.103) | 53813 | 50.0000 | 48.18 |
| | 90 1,2,4-Trichlorobenzene | 180 | 11.334 | 11.334 | (1.173) | 366585 | 50.0000 | 47.01 |
| | 91 Hexachlorobutadiene | 225 | 11.476 | 11.476 | (1.188) | 155725 | 50.0000 | 44.49 |
| | 92 Naphthalene | 128 | 11.540 | 11.540 | (1.194) | 880392 | 50.0000 | 50.16 |
| | 93 1,2,3-Trichlorobenzene | 180 | 11.739 | 11.739 | (1.215) | 343572 | 50.0000 | 47.89 |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 449497 | 100.000 | (a) |
| | 141 Cyclohexane | 56 | 4.121 | 4.121 | (0.986) | 297069 | 50.0000 | 50.37 |
| | 138 Freon TF | 101 | 1.917 | 1.917 | (0.459) | 161472 | 50.0000 | 50.16 |
| | 147 Methylcyclohexane | 55 | 5.381 | 5.381 | (1.084) | 543249 | 50.0000 | 53.30 |
| | 146 Methyl Acetate | 43 | 2.232 | 2.232 | (0.534) | 148262 | 50.0000 | 54.14 |
| | 148 Tert-Butyl alcohol | 59 | 2.431 | 2.431 | (0.581) | 442097 | 1000.00 | 930.61 |
| | 149 Isopropyl Alcohol | 45 | 2.097 | 2.097 | (0.502) | 242430 | 1000.00 | 924.52 |

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\voa6.i\X230617.b\X061731.D
Date : 17-JUN-2023 21:47
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

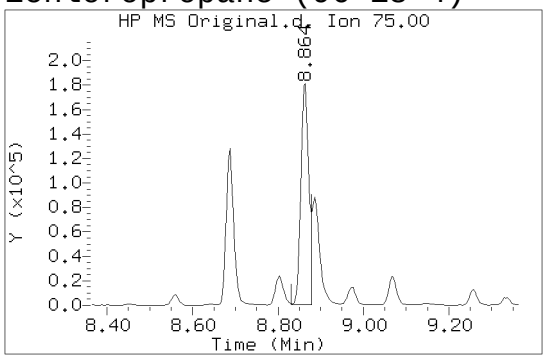
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061731.D
Inj Date : 17-JUN-2023 21:47
InstruID : voa6.i
LabSampID : CCV-END

## 1,2,3-Trichloropropane (96-18-4)

Reason Code:

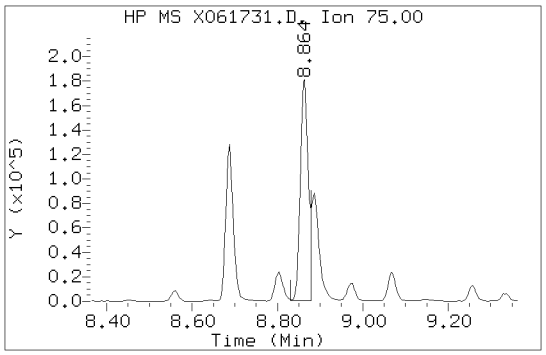
BEFORE

MASS
75
AREA
245366
HEIGHT
180734
20-Jun-2023
17:15
linh
pham



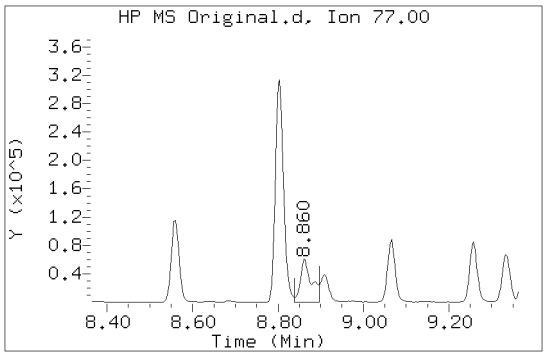

AFTER

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AREA
245366
HEIGHT
180734
21-Jun-2023
15:59
linh
pham



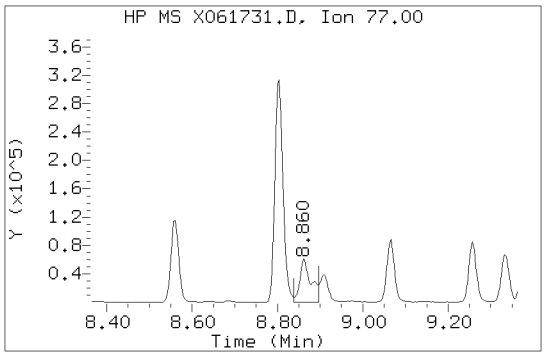

BEFORE

MASS
77
AREA
115202
HEIGHT
60225
20-Jun-2023
17:15
linh
pham




AFTER

MASS
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AREA
115202
HEIGHT
60225
21-Jun-2023
15:59
linh
pham

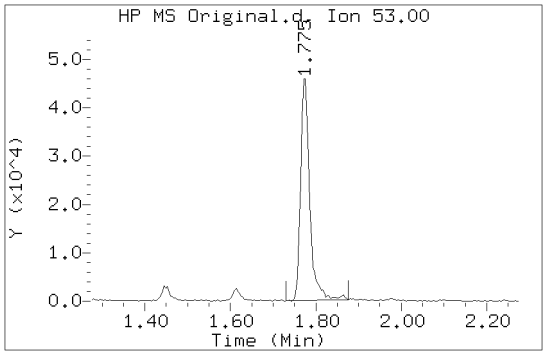



## Chloroprene (126-99-8)

Reason Code:

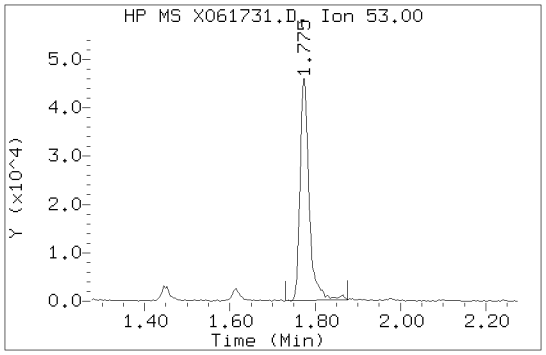
BEFORE

MASS
53
AREA
70395
HEIGHT
45778
20-Jun-2023
17:15
linh
pham



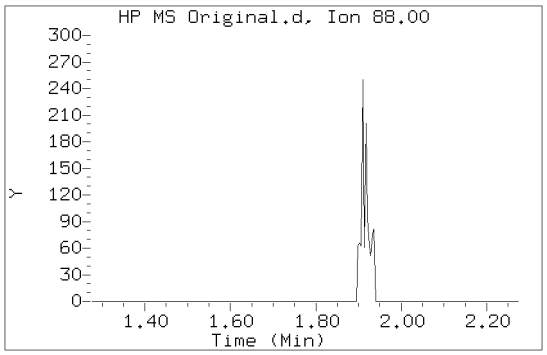

AFTER

MASS
53
AREA
70395
HEIGHT
45778
21-Jun-2023
15:59
linh
pham



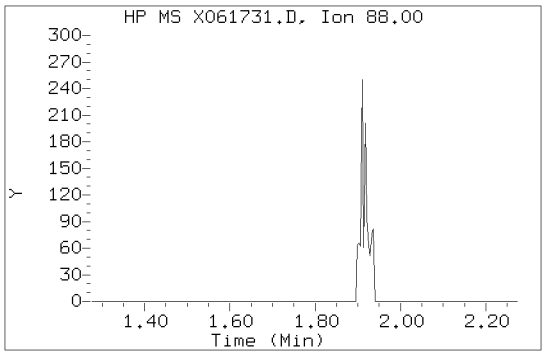

BEFORE

MASS
88
AREA
0
HEIGHT
0
20-Jun-2023
17:15
linh
pham




AFTER

MASS
88
AREA
0
HEIGHT
0
21-Jun-2023
15:59
linh
pham

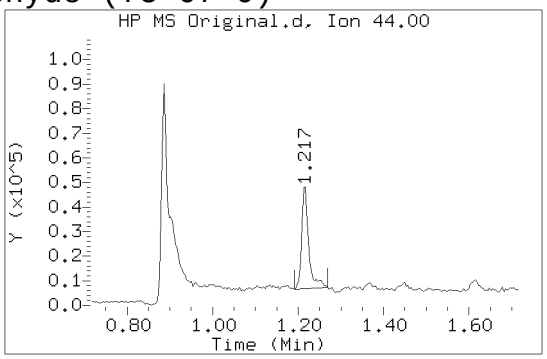


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230617.b\X061731.D
Inj Date : 17-JUN-2023 21:47
InstruID : voa6.i
LabSampID : CCV-END

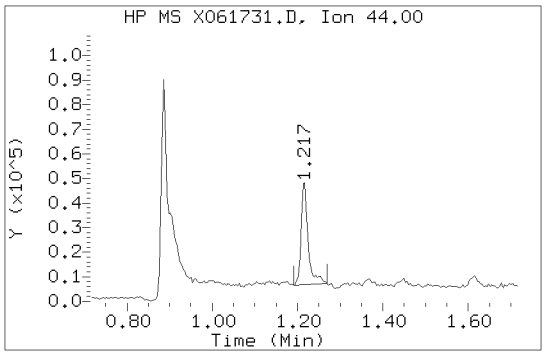
Acetaldehyde (75-07-0)

Reason Code:

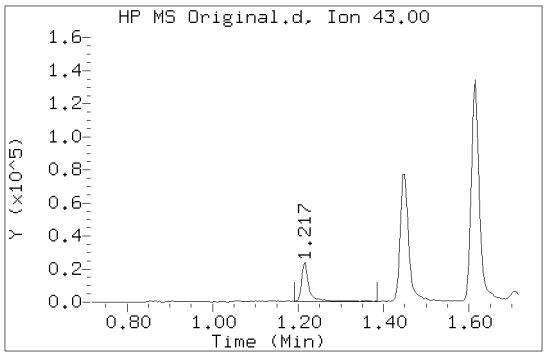
BEFORE
MASS
44
AREA
49445
HEIGHT
41525
20-Jun-2023
17:15
linh
pham



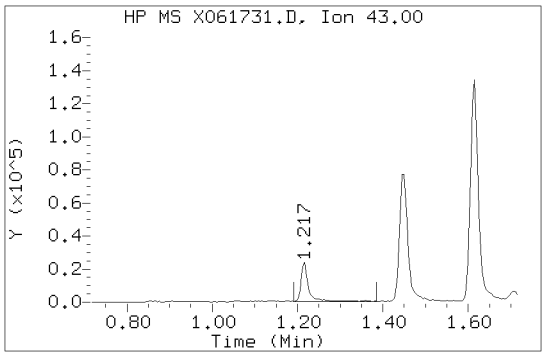

AFTER
MASS
44
AREA
49445
HEIGHT
41525
21-Jun-2023
15:59
linh
pham



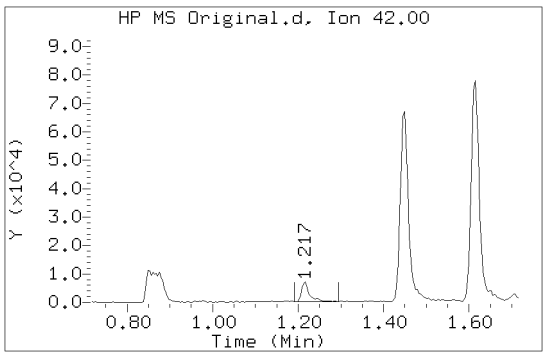

BEFORE
MASS
43
AREA
30301
HEIGHT
23580
20-Jun-2023
17:15
linh
pham



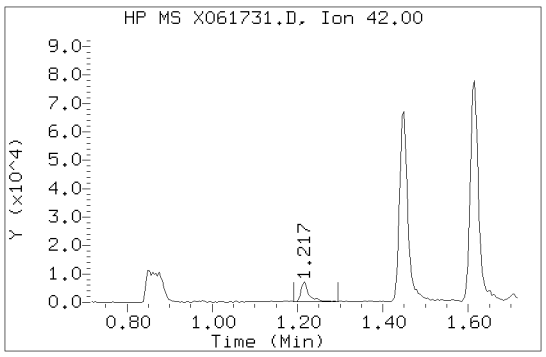

AFTER
MASS
43
AREA
30301
HEIGHT
23580
21-Jun-2023
15:59
linh
pham




BEFORE
MASS
42
AREA
9531
HEIGHT
6998
20-Jun-2023
17:15
linh
pham




AFTER
MASS
42
AREA
9531
HEIGHT
6998
21-Jun-2023
15:59
linh
pham



01195666

right solutions.
right partner.

# Raw Data VOA6 439273

## Volatiles by EPA 8260

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/23/2023

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\voa6.i\X230619.b\X061901.D  Page 1
Report Date: 19-Jun-2023 11:35

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061901.D
Lab Smp Id: BFB  Client Smp ID: BFB
Inj Date  : 19-JUN-2023 10:38
Operator  : PC  Inst ID: voa6.i
Smp Info  : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham  Quant Type: ISTD
Cal Date  :  Cal File:
Als bottle: 1  QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: all.sub
Target Version:  4.14  Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vf | 1.000 | Volumetric correction factor |
| Vi | 2.000 | Injection Volume |
| Cpnd Variable | | Local Compound Variable |

| | | | | | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/l) | | |
|---|---|---|---|---|---|---|---|---|
| RT | EXP RT | REL RT | MASS | RESPONSE | | | TARGET RANGE | RATIO |
| 1 bfb | | | | | | | CAS #: 460-00-4 | |
| 8.687 | 8.889 | ( 0.000) | 95 | 116840 | | | 0.00- 100.00 | 100.00 |
| 8.687 | 8.889 | ( 0.000) | 50 | 19584 | | | 15.00- 40.00 | 16.76 |
| 8.687 | 8.889 | ( 0.000) | 75 | 55528 | | | 30.00- 60.00 | 47.52 |
| 8.687 | 8.889 | ( 0.000) | 96 | 8102 | | | 5.00- 9.00 | 6.93 |
| 8.687 | 8.889 | ( 0.000) | 173 | 737 | | | 0.00- 2.00 | 0.77 |
| 8.687 | 8.889 | ( 0.000) | 174 | 95720 | | | 50.00- 0.00 | 81.92 |
| 8.687 | 8.889 | ( 0.000) | 175 | 6585 | | | 5.00- 9.00 | 6.88 |
| 8.687 | 8.889 | ( 0.000) | 176 | 94416 | | | 95.00- 101.00 | 98.64 |
| 8.687 | 8.889 | ( 0.000) | 177 | 6707 | | | 5.00- 9.00 | 7.10 |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 16.76 |
| 75 | 30.00 - 60.00% of mass 95 | 47.52 |
| 96 | 5.00 - 9.00% of mass 95 | 6.93 |
| 173 | Less than 2.00% of mass 174 | 0.63 ( 0.77) |
| 174 | Greater than 50.00% of mass 95 | 81.92 |
| 175 | 5.00 - 9.00% of mass 174 | 5.64 ( 6.88) |
| 176 | 95.00 - 101.00% of mass 174 | 80.81 ( 98.64) |
| 177 | 5.00 - 9.00% of mass 176 | 5.74 ( 7.10) |

Data File: X061901.D
Spectrum: Scan 2160 ( 8.68)
Location of Maximum: 95.00
Number of points: 107

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 810 | 64.00 | 433 | 93.00 | 4587 | 136.90 | 139 |
| 37.00 | 4386 | 65.00 | 127 | 94.10 | 11949 | 139.20 | 75 |
| 38.10 | 4727 | 65.90 | 83 | 95.00 | 116840 | 139.70 | 88 |
| 39.10 | 2141 | 67.10 | 392 | 96.00 | 8102 | 140.80 | 1275 |
| 40.00 | 1468 | 68.00 | 10775 | 96.90 | 266 | 141.80 | 119 |
| 41.10 | 865 | 69.00 | 12285 | 98.00 | 877 | 142.90 | 863 |
| 42.00 | 1550 | 70.10 | 1068 | 99.30 | 179 | 144.70 | 70 |
| 43.10 | 971 | 71.10 | 470 | 102.90 | 147 | 145.90 | 98 |
| 44.00 | 2047 | 71.90 | 627 | 103.90 | 773 | 146.80 | 65 |
| 45.00 | 1545 | 73.00 | 5018 | 104.90 | 480 | 147.60 | 232 |
| 47.00 | 1305 | 74.00 | 18176 | 105.90 | 318 | 149.80 | 135 |
| 48.00 | 778 | 75.00 | 55528 | 107.00 | 430 | 151.90 | 76 |
| 49.10 | 4255 | 76.00 | 5121 | 108.90 | 184 | 152.70 | 54 |
| 50.10 | 19584 | 77.00 | 901 | 113.00 | 132 | 155.00 | 333 |
| 51.00 | 6318 | 78.00 | 626 | 114.70 | 121 | 156.90 | 150 |
| 51.90 | 325 | 78.90 | 3158 | 115.90 | 315 | 158.80 | 168 |
| 52.90 | 196 | 79.90 | 790 | 116.70 | 627 | 160.80 | 169 |
| 54.00 | 62 | 80.90 | 2907 | 117.90 | 359 | 170.60 | 74 |
| 55.00 | 2066 | 81.90 | 478 | 118.90 | 601 | 171.70 | 66 |
| 56.10 | 1471 | 82.90 | 223 | 125.80 | 115 | 173.00 | 737 |
| 57.00 | 2991 | 84.00 | 53 | 126.90 | 101 | 173.90 | 95720 |
| 57.90 | 356 | 84.90 | 320 | 127.70 | 372 | 174.90 | 6585 |
| 59.00 | 93 | 85.90 | 143 | 128.90 | 304 | 175.90 | 94416 |
| 60.00 | 1429 | 87.00 | 4691 | 129.90 | 458 | 176.90 | 6707 |
| 61.00 | 5264 | 88.00 | 4897 | 130.80 | 267 | 177.90 | 199 |
| 62.00 | 5118 | 90.90 | 390 | 133.50 | 114 | 186.00 | 154 |
| 63.00 | 3505 | 92.00 | 2576 | 134.90 | 159 | | |

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061901.D Page 1

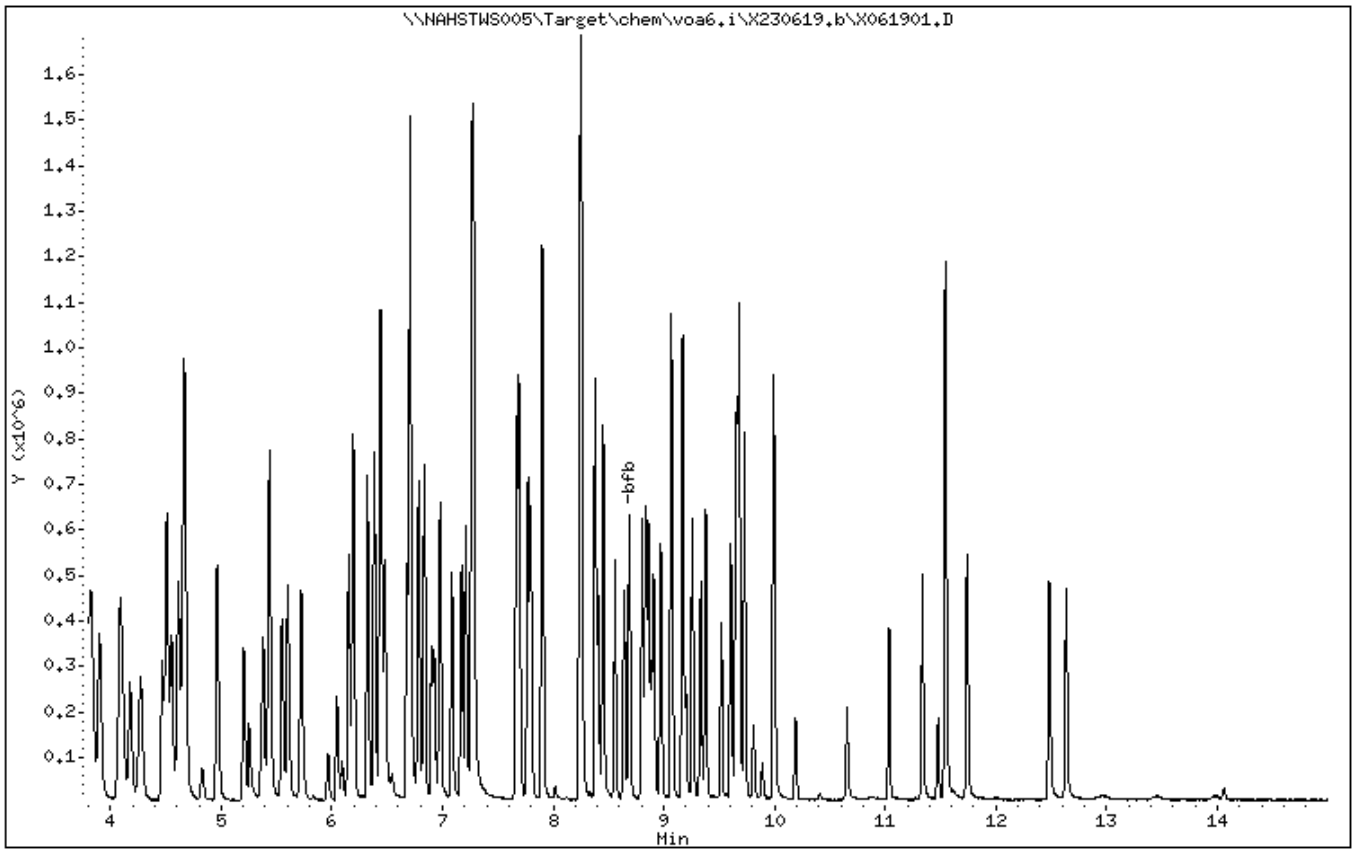
Date : 19-JUN-2023 10:38

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061901.D 

Date : 19-JUN-2023 10:38

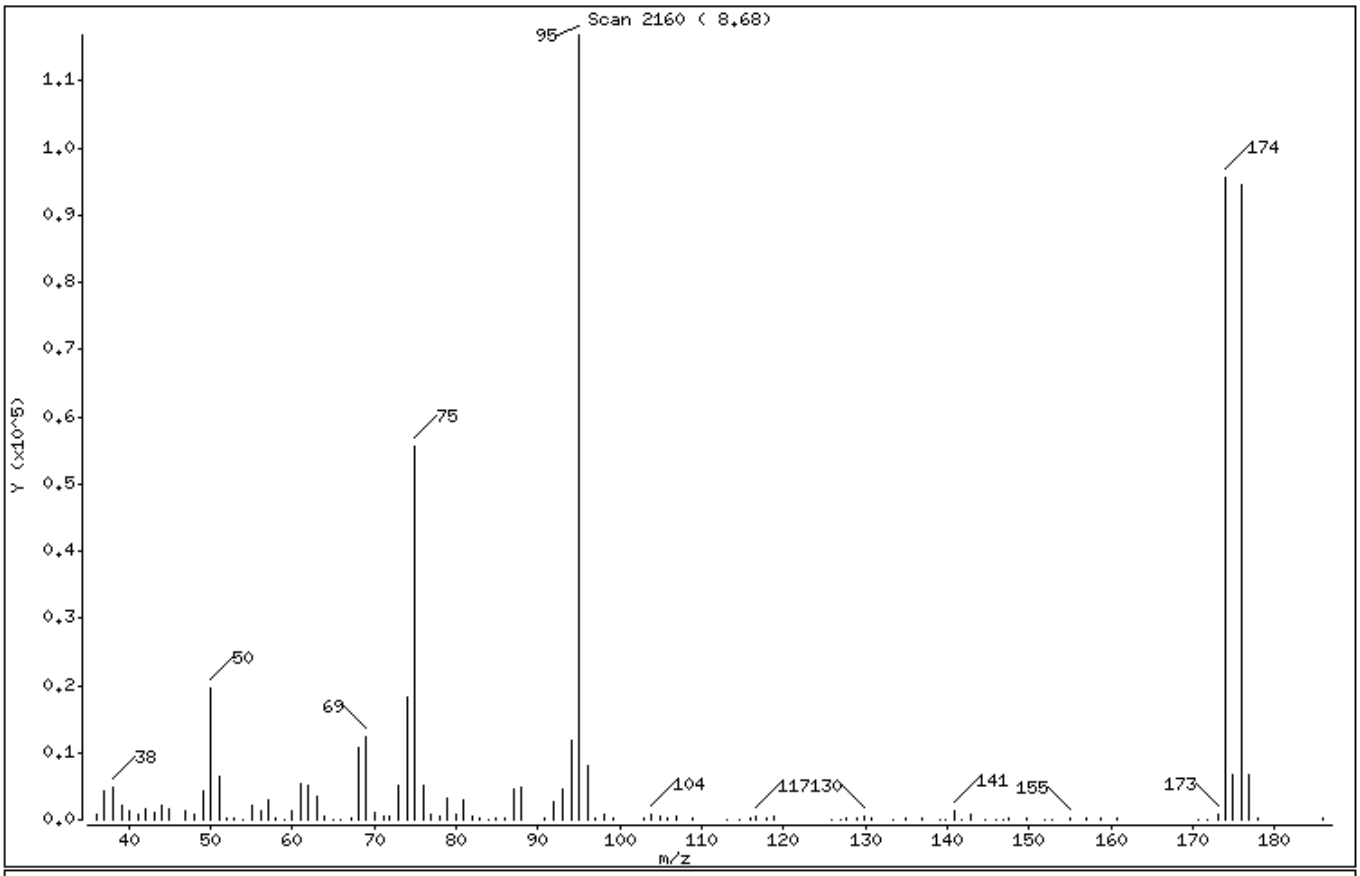
Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

1 bfb




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 16.76 |
| 75 | 30.00 - 60.00% of mass 95 | 47.52 |
| 96 | 5.00 - 9.00% of mass 95 | 6.93 |
| 173 | Less than 2.00% of mass 174 | 0.63 ( 0.77) |
| 174 | Greater than 50.00% of mass 95 | 81.92 |
| 175 | 5.00 - 9.00% of mass 174 | 5.64 ( 6.88) |
| 176 | 95.00 - 101.00% of mass 174 | 80.81 ( 98.64) |
| 177 | 5.00 - 9.00% of mass 176 | 5.74 ( 7.10) |

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061901.D Page 3

Date : 19-JUN-2023 10:38

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: X061901.D
Spectrum: Scan 2160 ( 8.68)
Location of Maximum: 95.00
Number of points: 107

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 810 | 64.00 | 433 | 93.00 | 4587 | 136.90 | 139 |
| 37.00 | 4386 | 65.00 | 127 | 94.10 | 11949 | 139.20 | 75 |
| 38.10 | 4727 | 65.90 | 83 | 95.00 | 116840 | 139.70 | 88 |
| 39.10 | 2141 | 67.10 | 392 | 96.00 | 8102 | 140.80 | 1275 |
| 40.00 | 1468 | 68.00 | 10775 | 96.90 | 266 | 141.80 | 119 |
| 41.10 | 865 | 69.00 | 12285 | 98.00 | 877 | 142.90 | 863 |
| 42.00 | 1550 | 70.10 | 1068 | 99.30 | 179 | 144.70 | 70 |
| 43.10 | 971 | 71.10 | 470 | 102.90 | 147 | 145.90 | 98 |
| 44.00 | 2047 | 71.90 | 627 | 103.90 | 773 | 146.80 | 65 |
| 45.00 | 1545 | 73.00 | 5018 | 104.90 | 480 | 147.60 | 232 |
| 47.00 | 1305 | 74.00 | 18176 | 105.90 | 318 | 149.80 | 135 |
| 48.00 | 778 | 75.00 | 55528 | 107.00 | 430 | 151.90 | 76 |
| 49.10 | 4255 | 76.00 | 5121 | 108.90 | 184 | 152.70 | 54 |
| 50.10 | 19584 | 77.00 | 901 | 113.00 | 132 | 155.00 | 333 |
| 51.00 | 6318 | 78.00 | 626 | 114.70 | 121 | 156.90 | 150 |
| 51.90 | 325 | 78.90 | 3158 | 115.90 | 315 | 158.80 | 168 |
| 52.90 | 196 | 79.90 | 790 | 116.70 | 627 | 160.80 | 169 |
| 54.00 | 62 | 80.90 | 2907 | 117.90 | 359 | 170.60 | 74 |
| 55.00 | 2066 | 81.90 | 478 | 118.90 | 601 | 171.70 | 66 |
| 56.10 | 1471 | 82.90 | 223 | 125.80 | 115 | 173.00 | 737 |
| 57.00 | 2991 | 84.00 | 53 | 126.90 | 101 | 173.90 | 95720 |
| 57.90 | 356 | 84.90 | 320 | 127.70 | 372 | 174.90 | 6585 |
| 59.00 | 93 | 85.90 | 143 | 128.90 | 304 | 175.90 | 94416 |
| 60.00 | 1429 | 87.00 | 4691 | 129.90 | 458 | 176.90 | 6707 |
| 61.00 | 5264 | 88.00 | 4897 | 130.80 | 267 | 177.90 | 199 |
| 62.00 | 5118 | 90.90 | 390 | 133.50 | 114 | 186.00 | 154 |
| 63.00 | 3505 | 92.00 | 2576 | 134.90 | 159 | | |

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061903.D  Page 1
Report Date: 23-Jun-2023 17:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061903.D
Lab Smp Id: CCV  Client Smp ID: CCV
Inj Date  : 19-JUN-2023 11:20
Operator  : PC  Inst ID: voa6.i
Smp Info  : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\8260W.m
Meth Date : 23-Jun-2023 17:25 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 3  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.178 | 4.178 | (1.000) | 477704 | 50.0000 | |
| 135 1,4-Dioxane | 88 | 5.598 | 5.598 | (1.340) | 56167 | 1000.00 | 970.20 |
| 140 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.280) | 211209 | 50.0000 | 53.35 |
| 25 Methacrylonitrile | 41 | 3.825 | 3.825 | (0.916) | 197929 | 50.0000 | 50.21 |
| 12 Isobutyl Alcohol | 43 | 4.672 | 4.672 | (1.118) | 640245 | 1000.00 | 1027.88 |
| 13 Acetonitrile | 39 | 2.198 | 2.198 | (0.526) | 222328 | 500.000 | 479.83 |
| 14 Allyl Chloride | 41 | 2.198 | 2.198 | (0.526) | 461472 | 50.0000 | 44.04 |
| 4 Propionitrile | 54 | 3.649 | 3.649 | (0.873) | 287035 | 500.000 | 496.83 |
| 72 trans-1,4-Dichloro-2-butene | 53 | 8.886 | 8.886 | (1.159) | 88559 | 50.0000 | 51.54 |
| 194 Acetaldehyde | 44 | 1.212 | 1.212 | (0.290) | 50627 | 200.000 | 201.40(M) |
| 23 Chloroprene | 53 | 1.775 | 1.775 | (0.425) | 85756 | 50.0000 | 54.01(M) |
| 130 Ethyl Acetate | 43 | 3.653 | 3.653 | (0.874) | 233436 | 50.0000 | 47.93 |
| 40 Methyl Methacrylate | 41 | 5.606 | 5.606 | (1.342) | 188404 | 50.0000 | 50.94 |
| 49 Ethyl Methacrylate | 69 | 6.708 | 6.708 | (1.351) | 224855 | 50.0000 | 41.93 |
| 131 Methyl Acrylate | 55 | 3.687 | 3.687 | (0.882) | 205310 | 50.0000 | 53.06 |
| 156 Diisopropyl ether | 45 | 3.001 | 3.001 | (0.718) | 699697 | 50.0000 | 49.66 |
| 164 Dicyclopentadiene | 66 | 9.681 | 9.681 | (1.002) | 1003411 | 50.0000 | 44.77 |
| 166 1,2,3-Trimethylbenzene | 105 | 9.729 | 9.729 | (1.007) | 915863 | 50.0000 | 48.08 |
| 2 Dichlorodifluoromethane | 85 | 0.976 | 0.976 | (0.234) | 195705 | 50.0000 | 47.58 |
| 3 Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 260681 | 50.0000 | 51.58 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5 Vinyl Chloride | 62 | 1.145 | 1.145 (0.274) | 261866 | 50.0000 | 52.19 |
| 6 Bromomethane | 94 | 1.344 | 1.344 (0.322) | 148514 | 50.0000 | 51.57 |

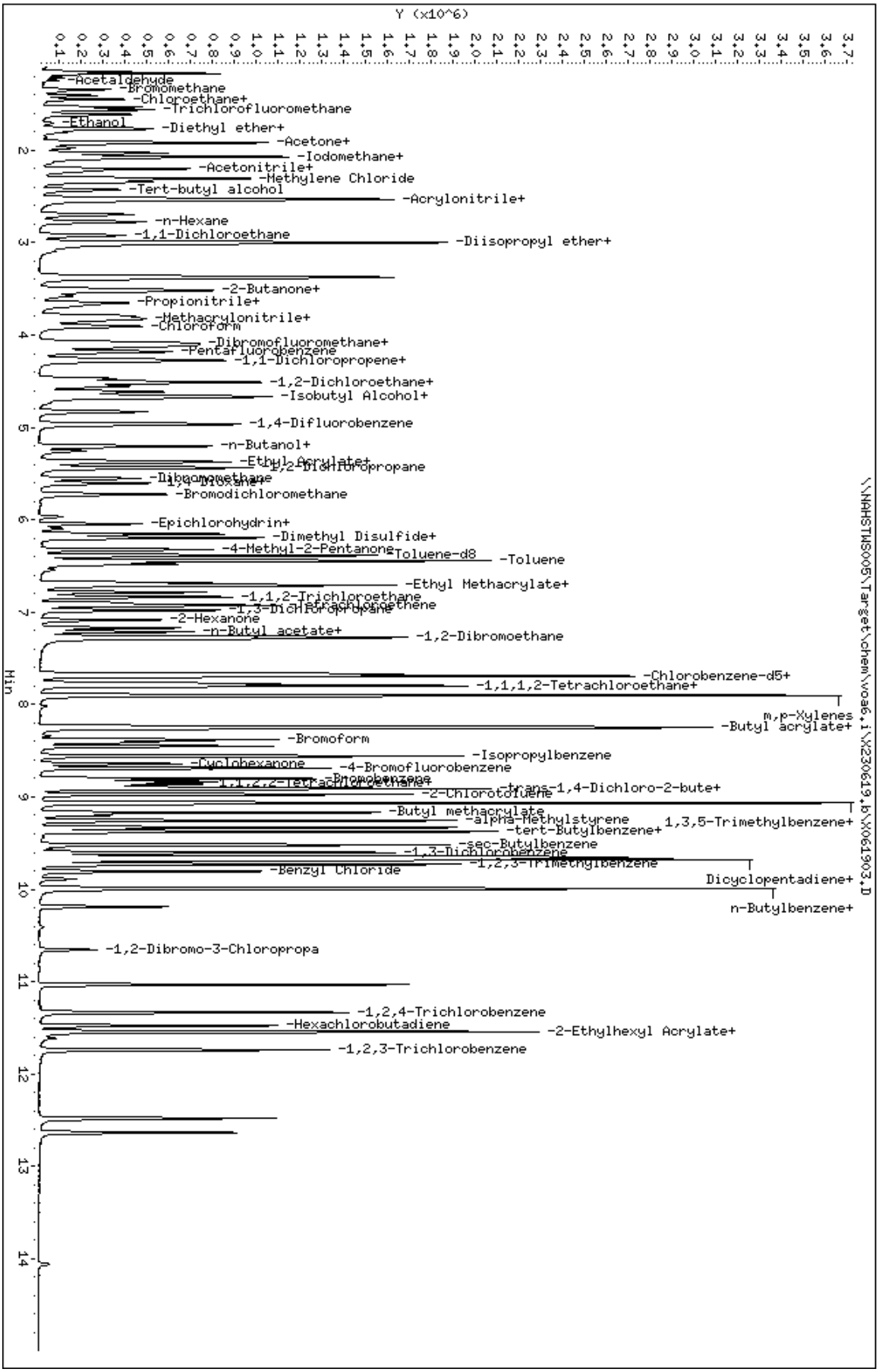
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 7 Chloroethane | 64 | 1.407 | 1.407 | (0.337) | 167073 | 50.0000 | 54.48 |
| | 8 Trichlorofluoromethane | 101 | 1.561 | 1.561 | (0.374) | 319422 | 50.0000 | 53.57 |
| | 9 Acrolein | 56 | 1.449 | 1.449 | (0.347) | 29074 | 100.000 | 98.08 |
| | 10 Acetone | 43 | 1.973 | 1.973 | (0.472) | 123092 | 100.000 | 98.81 |
| | 11 1,1-Dichloroethene | 96 | 1.917 | 1.917 | (0.459) | 190339 | 50.0000 | 50.89 |
| | 15 Iodomethane | 142 | 2.030 | 2.030 | (0.486) | 609032 | 100.000 | 98.22 |
| | 16 Acrylonitrile | 53 | 2.532 | 2.532 | (0.606) | 152784 | 100.000 | 100.75 |
| | 17 Methylene Chloride | 84 | 2.303 | 2.303 | (0.551) | 223304 | 50.0000 | 42.27 |
| | 18 Methyl tert-butyl ether | 73 | 2.536 | 2.536 | (0.607) | 640068 | 50.0000 | 49.03 |
| | 19 Carbon Disulfide | 76 | 2.071 | 2.071 | (0.496) | 1270780 | 100.000 | 95.42 |
| | 20 trans-1,2-Dichloroethene | 96 | 2.528 | 2.528 | (0.605) | 220703 | 50.0000 | 49.31 |
| | 21 Vinyl Acetate | 43 | 2.997 | 2.997 | (0.717) | 1309332 | 100.000 | 109.61 |
| | 22 1,1-Dichloroethane | 63 | 2.922 | 2.922 | (0.699) | 402299 | 50.0000 | 49.90 |
| | 24 2-Butanone | 43 | 3.578 | 3.578 | (0.856) | 159347 | 100.000 | 101.35 |
| | 26 2,2-Dichloropropane | 77 | 3.507 | 3.507 | (0.839) | 351497 | 50.0000 | 55.25 |
| | 27 cis-1,2-Dichloroethene | 96 | 3.525 | 3.525 | (0.844) | 253297 | 50.0000 | 49.08 |
| | 28 Chloroform | 83 | 3.904 | 3.904 | (0.935) | 419848 | 50.0000 | 48.38 |
| | 29 Bromochloromethane | 128 | 3.791 | 3.791 | (0.908) | 132737 | 50.0000 | 48.26 |
| $ | 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.981) | 228166 | 50.0000 | 53.50 |
| | 31 1,1,1-Trichloroethane | 97 | 4.080 | 4.080 | (0.977) | 349031 | 50.0000 | 49.76 |
| | 32 1,1-Dichloropropene | 75 | 4.279 | 4.279 | (0.862) | 311487 | 50.0000 | 49.68 |
| | 33 1,2-Dichloroethane | 62 | 4.552 | 4.552 | (0.917) | 322021 | 50.0000 | 51.26 |
| | 34 Carbon Tetrachloride | 117 | 4.264 | 4.264 | (0.859) | 298248 | 50.0000 | 49.47 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.070) | 251514 | 50.0000 | 54.69 |
| * | 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 748122 | 50.0000 | |
| | 37 Benzene | 78 | 4.511 | 4.511 | (0.909) | 931984 | 50.0000 | 48.43 |
| | 38 Trichloroethene | 130 | 5.205 | 5.205 | (1.048) | 256106 | 50.0000 | 48.26 |
| | 39 Bromodichloromethane | 83 | 5.722 | 5.722 | (1.153) | 331194 | 50.0000 | 48.65 |
| | 41 2-Chloroethylvinyl ether | 63 | 6.044 | 6.044 | (1.217) | 182930 | 100.000 | 99.30 |
| | 42 1,2-Dichloropropane | 63 | 5.433 | 5.433 | (1.094) | 249509 | 50.0000 | 49.39 |
| | 44 Dibromomethane | 93 | 5.550 | 5.550 | (1.118) | 157239 | 50.0000 | 49.58 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.322 | 6.322 | (0.824) | 440085 | 100.000 | 96.51 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.153 | 6.153 | (1.239) | 420279 | 50.0000 | 50.07 |
| * | 47 Chlorobenzene-d5 | 117 | 7.668 | 7.668 | (1.000) | 705857 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.386 | 6.386 | (0.833) | 865352 | 50.0000 | 48.49 |
| | 50 Toluene | 91 | 6.442 | 6.442 | (0.840) | 1014948 | 50.0000 | 48.97 |
| | 51 trans-1,3-Dichloropropene | 75 | 6.678 | 6.678 | (1.345) | 358868 | 50.0000 | 51.10 |
| | 52 2-Hexanone | 43 | 7.083 | 7.083 | (0.924) | 302293 | 100.000 | 99.25 |
| | 53 1,1,2-Trichloroethane | 83 | 6.839 | 6.839 | (0.892) | 193004 | 50.0000 | 47.80 |
| | 54 1,3-Dichloropropane | 76 | 6.978 | 6.978 | (0.910) | 401614 | 50.0000 | 49.20 |
| | 55 Dibromochloromethane | 129 | 7.173 | 7.173 | (0.935) | 279894 | 50.0000 | 48.92 |
| | 56 Tetrachloroethene | 164 | 6.925 | 6.925 | (0.903) | 201906 | 50.0000 | 47.38 |
| | 57 1,2-Dibromoethane | 107 | 7.259 | 7.259 | (0.947) | 246508 | 50.0000 | 47.77 |
| | 58 1-Chlorohexane | 55 | 7.694 | 7.694 | (1.550) | 223836 | 50.0000 | 49.19 |
| | 59 Chlorobenzene | 112 | 7.690 | 7.690 | (1.003) | 685954 | 50.0000 | 48.37 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 7.773 | 7.773 | (1.014) | 255906 | 50.0000 | 48.40 |
| | 61 Ethylbenzene | 106 | 7.799 | 7.799 | (1.017) | 347877 | 50.0000 | 47.62 |
| | 62 m,p-Xylenes | 106 | 7.900 | 7.900 | (1.030) | 893922 | 100.000 | 99.22 |
| | 63 o-Xylene | 106 | 8.241 | 8.241 | (1.075) | 432417 | 50.0000 | 48.10 |
| | 64 Styrene | 104 | 8.256 | 8.256 | (1.077) | 749170 | 50.0000 | 50.59 |
| | 66 Bromoform | 173 | 8.410 | 8.410 | (1.097) | 193733 | 50.0000 | 48.57 |
| | 67 Isopropylbenzene | 105 | 8.560 | 8.560 | (1.116) | 1064149 | 50.0000 | 47.89 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 68 1,1,2,2-Tetrachloroethane | 83 | 8.837 | 8.837 (0.915) | 326293 | 50.0000 | 46.30 |
| $ | 69 4-Bromofluorobenzene | 95 | 8.687 | 8.687 (1.133) | 359793 | 50.0000 | 52.23 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 | (1.000) | 400720 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 8.863 | 8.863 | (0.917) | 240238 | 50.0000 | 47.54(M) |
| | 73 n-Propylbenzene | 91 | 8.908 | 8.908 | (0.922) | 1290317 | 50.0000 | 48.93 |
| | 74 Bromobenzene | 156 | 8.803 | 8.803 | (0.911) | 309825 | 50.0000 | 47.43 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.066 | 9.066 | (0.938) | 935590 | 50.0000 | 48.35 |
| | 76 2-Chlorotoluene | 91 | 8.972 | 8.972 | (0.929) | 789850 | 50.0000 | 47.16 |
| | 77 4-Chlorotoluene | 91 | 9.066 | 9.066 | (0.938) | 916005 | 50.0000 | 49.04 |
| | 78 tert-Butylbenzene | 119 | 9.332 | 9.332 | (0.966) | 767499 | 50.0000 | 47.61 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.377 | 9.377 | (0.971) | 945862 | 50.0000 | 48.45 |
| | 81 sec-Butylbenzene | 105 | 9.519 | 9.519 | (0.985) | 1088886 | 50.0000 | 47.89 |
| | 82 p-Isopropyltoluene | 119 | 9.647 | 9.647 | (0.998) | 963618 | 50.0000 | 48.41 |
| | 83 1,3-Dichlorobenzene | 146 | 9.602 | 9.602 | (0.994) | 558200 | 50.0000 | 47.99 |
| | 84 1,4-Dichlorobenzene | 146 | 9.681 | 9.681 | (1.002) | 592171 | 50.0000 | 47.57 |
| | 87 n-Butylbenzene | 91 | 9.992 | 9.992 | (1.034) | 873978 | 50.0000 | 51.55 |
| | 88 1,2-Dichlorobenzene | 146 | 9.988 | 9.988 | (1.034) | 558320 | 50.0000 | 48.38 |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 10.655 | 10.655 | (1.103) | 57194 | 50.0000 | 49.73 |
| | 90 1,2,4-Trichlorobenzene | 180 | 11.334 | 11.334 | (1.173) | 396769 | 50.0000 | 49.43 |
| | 91 Hexachlorobutadiene | 225 | 11.480 | 11.480 | (1.188) | 179349 | 50.0000 | 49.77 |
| | 92 Naphthalene | 128 | 11.540 | 11.540 | (1.194) | 893675 | 50.0000 | 49.45 |
| | 93 1,2,3-Trichlorobenzene | 180 | 11.739 | 11.739 | (1.215) | 363098 | 50.0000 | 49.16 |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 474000 | 100.000 | (a) |
| | 141 Cyclohexane | 56 | 4.121 | 4.121 | (0.987) | 309034 | 50.0000 | 50.74 |
| | 138 Freon TF | 101 | 1.917 | 1.917 | (0.459) | 188951 | 50.0000 | 56.69 |
| | 147 Methylcyclohexane | 55 | 5.377 | 5.377 | (1.083) | 514125 | 50.0000 | 49.17 |
| | 146 Methyl Acetate | 43 | 2.232 | 2.232 | (0.534) | 131053 | 50.0000 | 46.34 |
| | 148 Tert-Butyl alcohol | 59 | 2.431 | 2.431 | (0.582) | 424546 | 1000.00 | 865.45 |
| | 149 Isopropyl Alcohol | 45 | 2.093 | 2.093 | (0.501) | 233573 | 1000.00 | 862.61 |

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\voa6.i\X230619.b\X061903.D
Date : 19-JUN-2023 11:20
Client ID: CCV
Sample Info: CCV;CCV;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

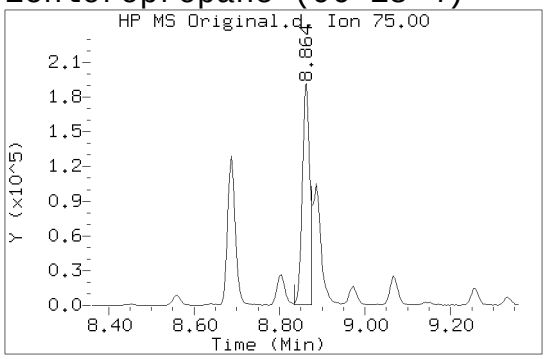
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Inj Date : 19-JUN-2023 11:20
InstruID : voa6.i
LabSampID : CCV

## 1,2,3-Trichloropropane (96-18-4)

Reason Code:

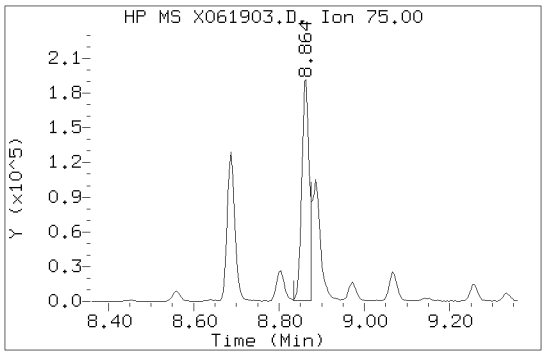
BEFORE

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HEIGHT
191233
23-Jun-2023
17:24
linh
pham



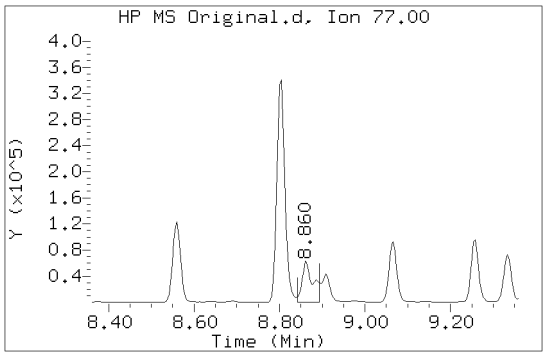

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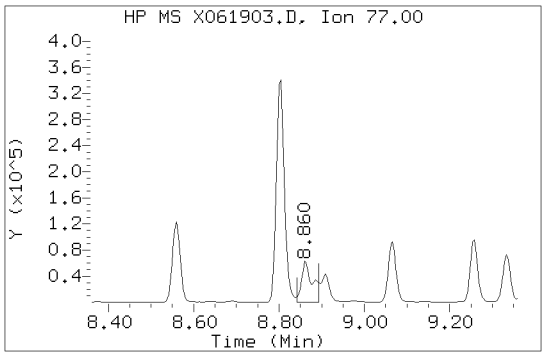

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23-Jun-2023
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AFTER

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HEIGHT
63043
23-Jun-2023
17:24
linh
pham

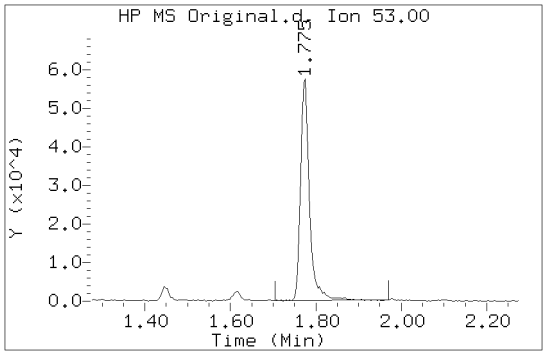



## Chloroprene (126-99-8)

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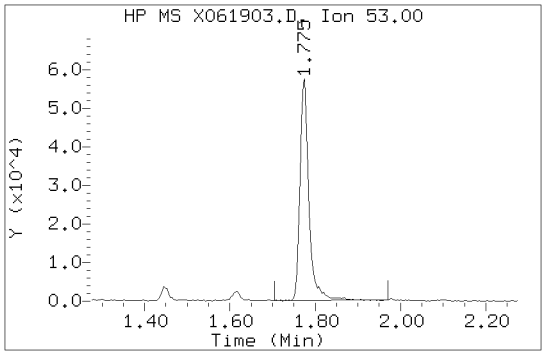
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23-Jun-2023
17:24
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pham



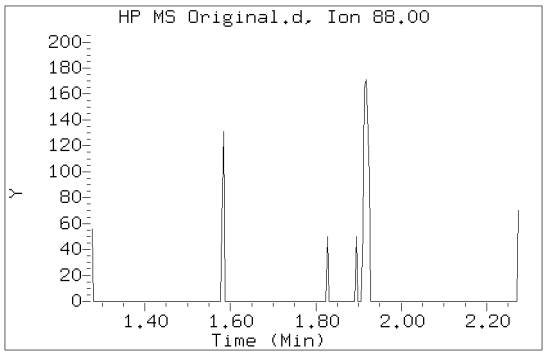

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23-Jun-2023
17:24
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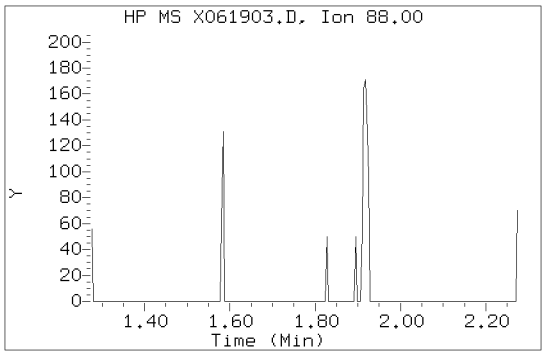

BEFORE

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0
23-Jun-2023
17:24
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AFTER

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HEIGHT
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23-Jun-2023
17:24
linh
pham

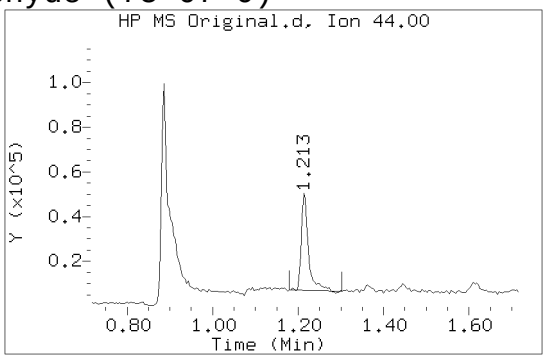


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LabSampID : CCV

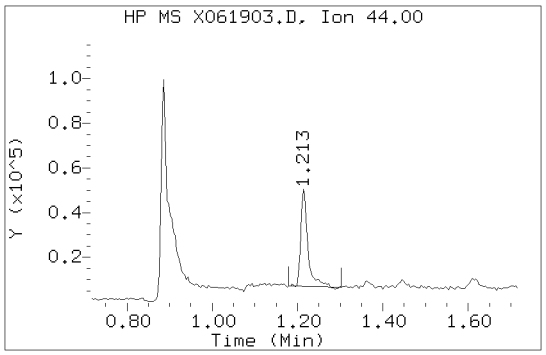
Acetaldehyde (75-07-0)

Reason Code:

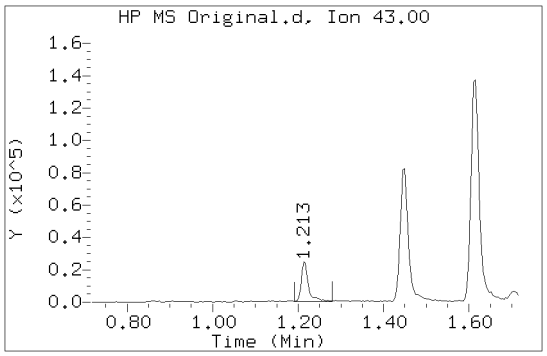
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AREA
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HEIGHT
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23-Jun-2023
17:24
linh
pham



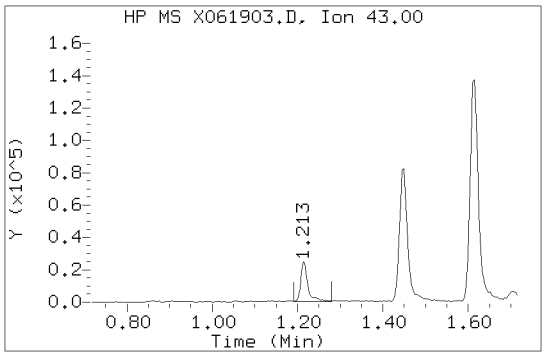

AFTER
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HEIGHT
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23-Jun-2023
17:24
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pham



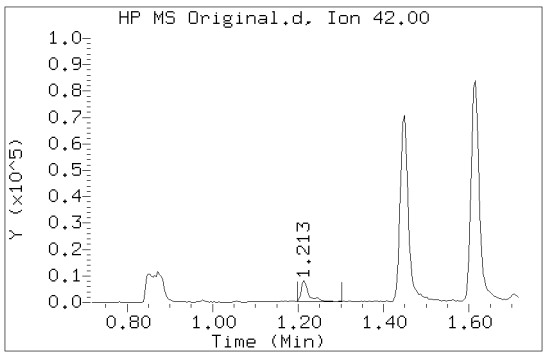

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pham



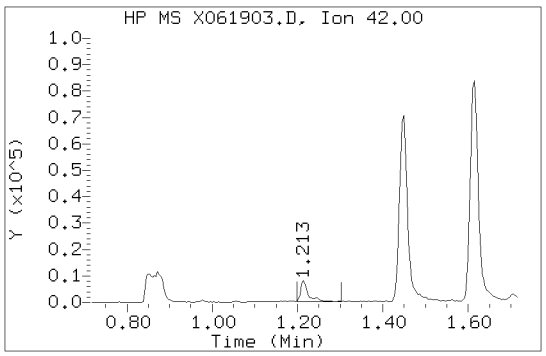

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BEFORE
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23-Jun-2023
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AFTER
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HEIGHT
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23-Jun-2023
17:24
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061904.D  Page 1
Report Date: 23-Jun-2023 17:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061904.D
Lab Smp Id: CCB  Client Smp ID: CCB
Inj Date  : 19-JUN-2023 11:41
Operator  : PC  Inst ID: voa6.i
Smp Info  : CCB;CCB;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\8260W.m
Meth Date : 23-Jun-2023 17:25 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.178 | 4.178 | (1.000) | 460765 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.981) | 204524 | 49.7002 | 49.70 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.070) | 226955 | 51.1138 | 51.11 |
| * 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 669984 | 50.0000 | |
| * 47 Chlorobenzene-d5 | 117 | 7.668 | 7.668 | (1.000) | 598599 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.386 | 6.386 | (0.833) | 801601 | 52.9672 | 52.96 |
| $ 69 4-Bromofluorobenzene | 95 | 8.687 | 8.687 | (1.133) | 286097 | 48.9425 | 48.94 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 | (1.000) | 312515 | 50.0000 | |

01195682

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061904.D

Page 1

Date : 19-JUN-2023 11:41

Client ID: CCB

Instrument: voa6.i

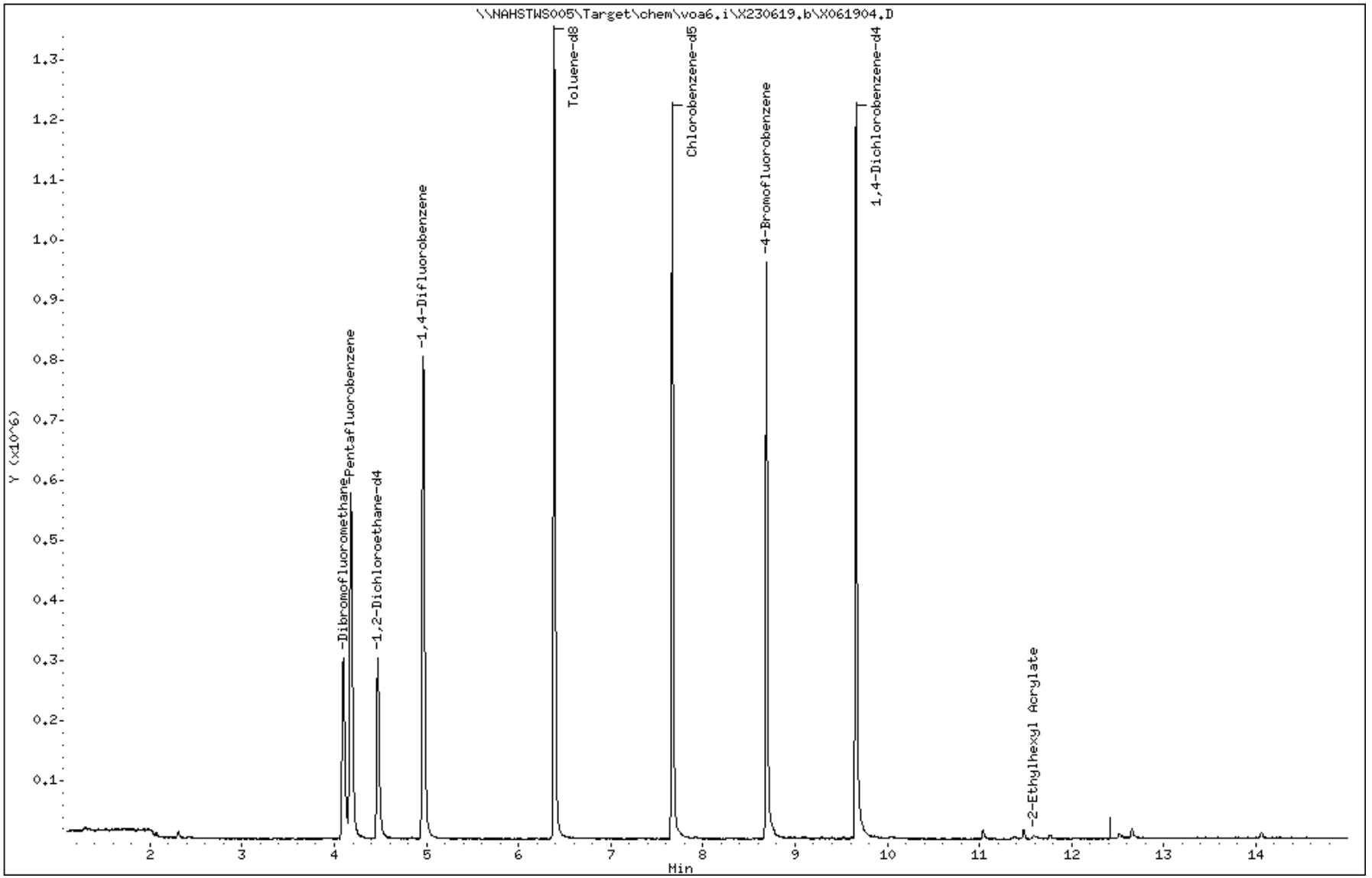
Sample Info: CCB;CCB;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date  : 19-JUN-2023 11:41
InstruID  : voa6.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061905.D  Page 1
Report Date: 23-Jun-2023 17:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061905.D
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Inj Date  : 19-JUN-2023 12:02
Operator  : PC  Inst ID: voa6.i
Smp Info  : VLCSW-230619;VLCSW-230619;3;;LCS
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\8260W.m
Meth Date : 23-Jun-2023 17:25 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 5  QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.177 | 4.178 | (1.000) | 427727 | 50.0000 | |
| 135 1,4-Dioxane | 88 | 5.598 | 5.598 | (1.340) | 19023 | 366.988 | 366.98(a) |
| 140 1,3-Butadiene | 54 | 1.171 | 1.167 | (0.280) | 79529 | 22.4368 | 22.43 |
| 25 Methacrylonitrile | 41 | 3.825 | 3.825 | (0.916) | 69770 | 19.7692 | 19.76 |
| 12 Isobutyl Alcohol | 43 | 4.676 | 4.672 | (1.119) | 229850 | 412.130 | 412.13 |
| 13 Acetonitrile | 39 | 2.202 | 2.198 | (0.527) | 89593 | 215.956 | 215.95 |
| 14 Allyl Chloride | 41 | 2.202 | 2.198 | (0.527) | 179121 | 19.0959 | 19.09 |
| 4 Propionitrile | 54 | 3.653 | 3.649 | (0.874) | 102358 | 197.875 | 197.87(a) |
| 72 trans-1,4-Dichloro-2-butene | 53 | 8.889 | 8.886 | (1.159) | 31571 | 20.6598 | 20.65 |
| 194 Acetaldehyde | 44 | 1.216 | 1.212 | (0.291) | 17305 | 74.7559 | 74.75(M) |
| 23 Chloroprene | 53 | 1.775 | 1.775 | (0.425) | 31844 | 22.3993 | 22.39(M) |
| 130 Ethyl Acetate | 43 | 3.656 | 3.653 | (0.875) | 84587 | 19.4007 | 19.40 |
| 40 Methyl Methacrylate | 41 | 5.606 | 5.606 | (1.342) | 66404 | 20.0543 | 20.05 |
| 49 Ethyl Methacrylate | 69 | 6.712 | 6.708 | (1.352) | 80553 | 16.9054 | 16.90 |
| 131 Methyl Acrylate | 55 | 3.694 | 3.687 | (0.884) | 62299 | 17.9836 | 17.98 |
| 156 Diisopropyl ether | 45 | 3.000 | 3.001 | (0.718) | 252417 | 20.0095 | 20.00 |
| 164 Dicyclopentadiene | 66 | 9.680 | 9.681 | (1.002) | 423414 | 20.2558 | 20.25 |
| 166 1,2,3-Trimethylbenzene | 105 | 9.729 | 9.729 | (1.007) | 361210 | 20.3327 | 20.33 |
| 2 Dichlorodifluoromethane | 85 | 0.976 | 0.976 | (0.234) | 71604 | 19.6426 | 19.64 |
| 3 Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 103779 | 23.5083 | 23.50 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5 Vinyl Chloride | 62 | 1.149 | 1.145 (0.275) | 100787 | 22.4367 | 22.43 |
| 6 Bromomethane | 94 | 1.343 | 1.344 (0.322) | 59774 | 23.1817 | 23.18 |

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061905.D Page 2
Report Date: 23-Jun-2023 17:25

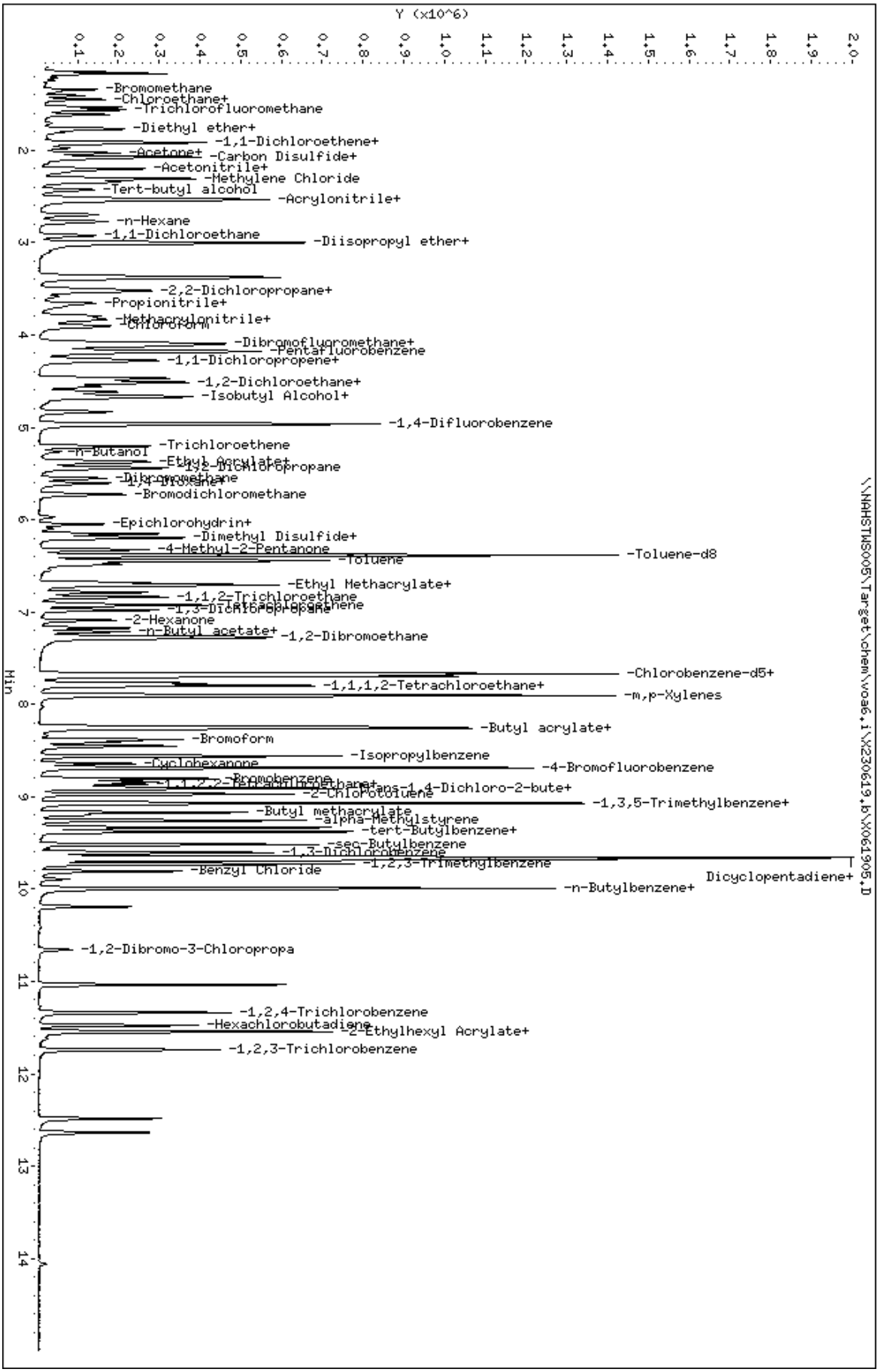
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 7 Chloroethane | 64 | 1.407 | 1.407 | (0.337) | 62603 | 22.7993 | 22.79 |
| | 8 Trichlorofluoromethane | 101 | 1.565 | 1.561 | (0.375) | 121186 | 22.7022 | 22.70 |
| | 9 Acrolein | 56 | 1.448 | 1.449 | (0.347) | 11550 | 43.5175 | 43.51 |
| | 10 Acetone | 43 | 1.977 | 1.973 | (0.473) | 49460 | 44.1950 | 44.19 |
| | 11 1,1-Dichloroethene | 96 | 1.921 | 1.917 | (0.460) | 74028 | 22.1066 | 22.10 |
| | 15 Iodomethane | 142 | 2.029 | 2.030 | (0.486) | 191832 | 36.3213 | 36.32 |
| | 16 Acrylonitrile | 53 | 2.539 | 2.532 | (0.608) | 51531 | 37.9549 | 37.95 |
| | 17 Methylene Chloride | 84 | 2.307 | 2.303 | (0.552) | 89593 | 18.9411 | 18.94 |
| | 18 Methyl tert-butyl ether | 73 | 2.536 | 2.536 | (0.607) | 233842 | 20.0076 | 20.00 |
| | 19 Carbon Disulfide | 76 | 2.071 | 2.071 | (0.496) | 457445 | 38.3644 | 38.36 |
| | 20 trans-1,2-Dichloroethene | 96 | 2.536 | 2.528 | (0.607) | 78832 | 19.6736 | 19.67 |
| | 21 Vinyl Acetate | 43 | 3.000 | 2.997 | (0.718) | 452990 | 42.3559 | 42.35 |
| | 22 1,1-Dichloroethane | 63 | 2.922 | 2.922 | (0.699) | 145069 | 20.0969 | 20.09 |
| | 24 2-Butanone | 43 | 3.589 | 3.578 | (0.859) | 51823 | 36.8158 | 36.81 |
| | 26 2,2-Dichloropropane | 77 | 3.510 | 3.507 | (0.840) | 127841 | 22.4400 | 22.44 |
| | 27 cis-1,2-Dichloroethene | 96 | 3.529 | 3.525 | (0.845) | 91183 | 19.7332 | 19.73 |
| | 28 Chloroform | 83 | 3.904 | 3.904 | (0.935) | 152362 | 19.6107 | 19.61 |
| | 29 Bromochloromethane | 128 | 3.795 | 3.791 | (0.908) | 48264 | 19.6011 | 19.60 |
| $ | 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.981) | 209776 | 54.9503 | 54.95 |
| | 31 1,1,1-Trichloroethane | 97 | 4.080 | 4.080 | (0.977) | 127091 | 20.2390 | 20.23 |
| | 32 1,1-Dichloropropene | 75 | 4.279 | 4.279 | (0.862) | 110962 | 19.9198 | 19.91 |
| | 33 1,2-Dichloroethane | 62 | 4.556 | 4.552 | (0.918) | 114355 | 20.4873 | 20.48 |
| | 34 Carbon Tetrachloride | 117 | 4.267 | 4.264 | (0.860) | 105061 | 19.6109 | 19.61 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.070) | 227330 | 55.2207 | 55.22(M) |
| * | 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 664785 | 50.0000 | |
| | 37 Benzene | 78 | 4.511 | 4.511 | (0.909) | 329800 | 19.2865 | 19.28 |
| | 38 Trichloroethene | 130 | 5.205 | 5.205 | (1.048) | 92296 | 19.5758 | 19.57 |
| | 39 Bromodichloromethane | 83 | 5.726 | 5.722 | (1.153) | 119595 | 19.7714 | 19.77 |
| | 41 2-Chloroethylvinyl ether | 63 | 6.048 | 6.044 | (1.218) | 64227 | 39.2387 | 39.23 |
| | 42 1,2-Dichloropropane | 63 | 5.433 | 5.433 | (1.094) | 88346 | 19.6830 | 19.68 |
| | 44 Dibromomethane | 93 | 5.553 | 5.550 | (1.119) | 57238 | 20.3143 | 20.31 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.325 | 6.322 | (0.825) | 156565 | 38.6036 | 38.60 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.157 | 6.153 | (1.240) | 149622 | 20.0614 | 20.06 |
| * | 47 Chlorobenzene-d5 | 117 | 7.667 | 7.668 | (1.000) | 627843 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.385 | 6.386 | (0.833) | 801410 | 50.4881 | 50.48 |
| | 50 Toluene | 91 | 6.445 | 6.442 | (0.841) | 363772 | 19.7361 | 19.73 |
| | 51 trans-1,3-Dichloropropene | 75 | 6.682 | 6.678 | (1.346) | 125333 | 20.0851 | 20.08 |
| | 52 2-Hexanone | 43 | 7.086 | 7.083 | (0.924) | 103020 | 38.0275 | 38.02 |
| | 53 1,1,2-Trichloroethane | 83 | 6.835 | 6.839 | (0.891) | 69658 | 19.3987 | 19.39 |
| | 54 1,3-Dichloropropane | 76 | 6.981 | 6.978 | (0.911) | 141656 | 19.5106 | 19.51 |
| | 55 Dibromochloromethane | 129 | 7.173 | 7.173 | (0.935) | 97423 | 19.1435 | 19.14 |
| | 56 Tetrachloroethene | 164 | 6.925 | 6.925 | (0.903) | 72257 | 19.0637 | 19.06 |
| | 57 1,2-Dibromoethane | 107 | 7.259 | 7.259 | (0.947) | 90402 | 19.6964 | 19.69 |
| | 58 1-Chlorohexane | 55 | 7.694 | 7.694 | (1.550) | 85901 | 21.2483 | 21.24 |
| | 59 Chlorobenzene | 112 | 7.694 | 7.690 | (1.003) | 252611 | 20.0296 | 20.02 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 7.772 | 7.773 | (1.014) | 91498 | 19.4562 | 19.45 |
| | 61 Ethylbenzene | 106 | 7.799 | 7.799 | (1.017) | 126696 | 19.4982 | 19.49 |
| | 62 m,p-Xylenes | 106 | 7.904 | 7.900 | (1.031) | 338196 | 42.2053 | 42.20 |
| | 63 o-Xylene | 106 | 8.241 | 8.241 | (1.075) | 155644 | 19.4656 | 19.46 |
| | 64 Styrene | 104 | 8.260 | 8.256 | (1.077) | 278301 | 21.1307 | 21.13 |
| | 66 Bromoform | 173 | 8.410 | 8.410 | (1.097) | 68116 | 19.1994 | 19.19 |
| | 67 Isopropylbenzene | 105 | 8.560 | 8.560 | (1.116) | 389703 | 19.7182 | 19.71 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 68 | 1,1,2,2-Tetrachloroethane | 83 | 8.837 | 8.837 (0.915) | 116859 | 17.7821 | 17.78 |
| $ | 69 | 4-Bromofluorobenzene | 95 | 8.687 | 8.687 (1.133) | 321731 | 52.5136 | 52.51 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 9.658 | 9.662 | (1.000) | 373737 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 8.863 | 8.863 | (0.918) | 87077 | 18.4784 | 18.47(M) |
| | 73 n-Propylbenzene | 91 | 8.908 | 8.908 | (0.922) | 465216 | 18.9160 | 18.91 |
| | 74 Bromobenzene | 156 | 8.803 | 8.803 | (0.912) | 113303 | 18.6004 | 18.60 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.066 | 9.066 | (0.939) | 349796 | 19.3834 | 19.38 |
| | 76 2-Chlorotoluene | 91 | 8.972 | 8.972 | (0.929) | 286684 | 18.3562 | 18.35 |
| | 77 4-Chlorotoluene | 91 | 9.069 | 9.066 | (0.939) | 346214 | 19.8738 | 19.87 |
| | 78 tert-Butylbenzene | 119 | 9.332 | 9.332 | (0.966) | 275634 | 18.3333 | 18.33 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.377 | 9.377 | (0.971) | 351594 | 19.3108 | 19.31 |
| | 81 sec-Butylbenzene | 105 | 9.519 | 9.519 | (0.986) | 394138 | 18.5878 | 18.58 |
| | 82 p-Isopropyltoluene | 119 | 9.647 | 9.647 | (0.999) | 361857 | 19.4919 | 19.49 |
| | 83 1,3-Dichlorobenzene | 146 | 9.602 | 9.602 | (0.994) | 201931 | 18.6177 | 18.61 |
| | 84 1,4-Dichlorobenzene | 146 | 9.680 | 9.681 | (1.002) | 227225 | 19.5726 | 19.57 |
| | 87 n-Butylbenzene | 91 | 9.992 | 9.992 | (1.035) | 334672 | 21.1664 | 21.16 |
| | 88 1,2-Dichlorobenzene | 146 | 9.992 | 9.988 | (1.035) | 210449 | 19.5552 | 19.55 |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 10.659 | 10.655 | (1.104) | 18441 | 17.3663 | 17.36 |
| | 90 1,2,4-Trichlorobenzene | 180 | 11.337 | 11.334 | (1.174) | 139163 | 18.5891 | 18.58 |
| | 91 Hexachlorobutadiene | 225 | 11.476 | 11.480 | (1.188) | 64427 | 19.1725 | 19.17 |
| | 92 Naphthalene | 128 | 11.540 | 11.540 | (1.195) | 299709 | 17.7839 | 17.78 |
| | 93 1,2,3-Trichlorobenzene | 180 | 11.742 | 11.739 | (1.216) | 125756 | 18.2557 | 18.25 |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 170015 | 39.4068 | 39.40 |
| M | 95 Xylenes (total) | 106 | | | | 493840 | 61.6709 | 61.67 |
| | 141 Cyclohexane | 56 | 4.121 | 4.121 | (0.987) | 111791 | 20.5033 | 20.50 |
| | 138 Freon TF | 101 | 1.921 | 1.917 | (0.460) | 73262 | 24.8780 | 24.87 |
| | 147 Methylcyclohexane | 55 | 5.381 | 5.377 | (1.084) | 181219 | 19.5045 | 19.50 |
| | 146 Methyl Acetate | 43 | 2.236 | 2.232 | (0.535) | 46653 | 18.4277 | 18.42 |
| | 148 Tert-Butyl alcohol | 59 | 2.431 | 2.431 | (0.582) | 156779 | 356.942 | 356.94 |
| | 149 Isopropyl Alcohol | 45 | 2.097 | 2.093 | (0.502) | 85899 | 354.305 | 354.30 |

QC Flag Legend

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




Data File: \\NAHSTMS005\Target\chem\voa6.i\X230619.b\X061905.D
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Client ID: VLCSW-230619
Sample Info: VLCSW-230619;VLCSW-230619;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

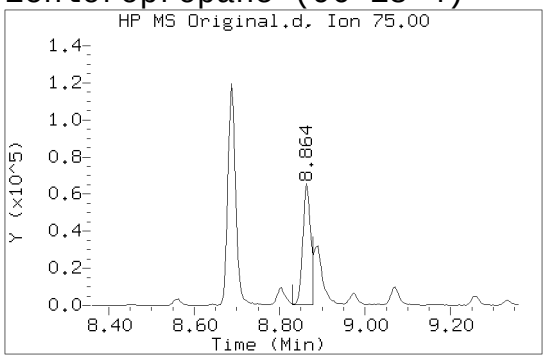
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Inj Date : 19-JUN-2023 12:02
InstruID : voa6.i
LabSampID : VLCSW-230619

## 1,2,3-Trichloropropane (96-18-4)

Reason Code:

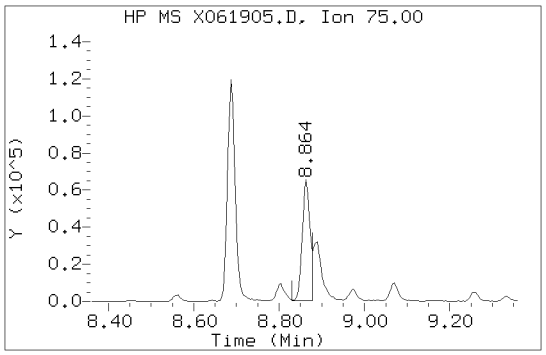
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23-Jun-2023
17:24
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pham



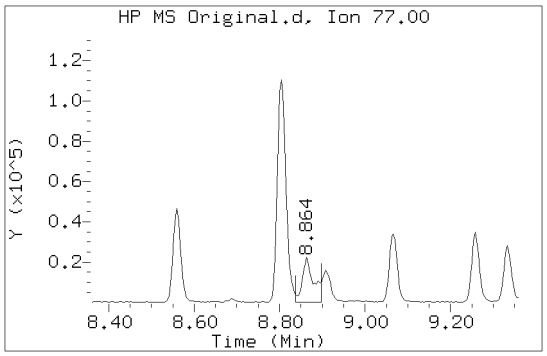

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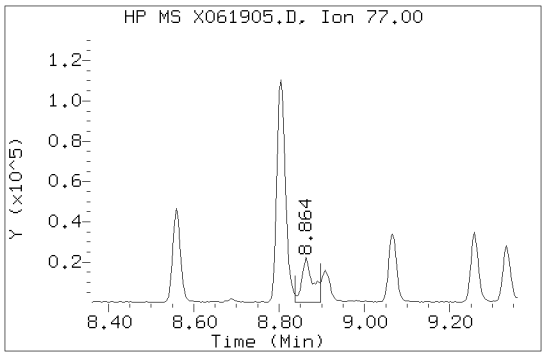

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AFTER

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23-Jun-2023
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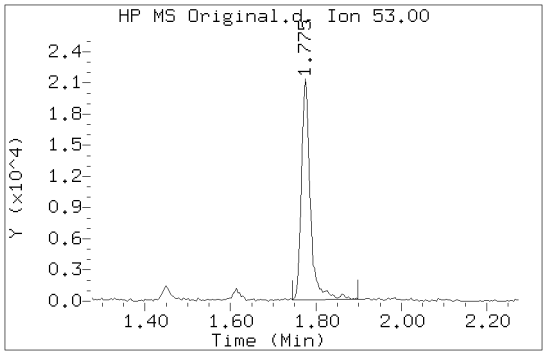



## Chloroprene (126-99-8)

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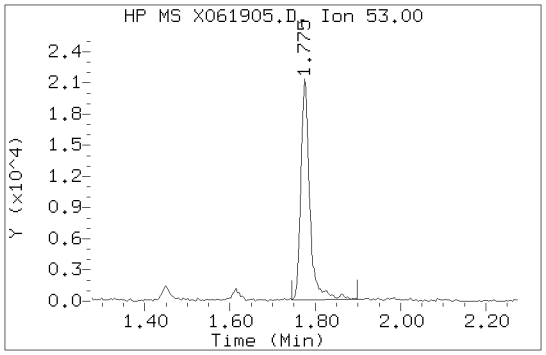
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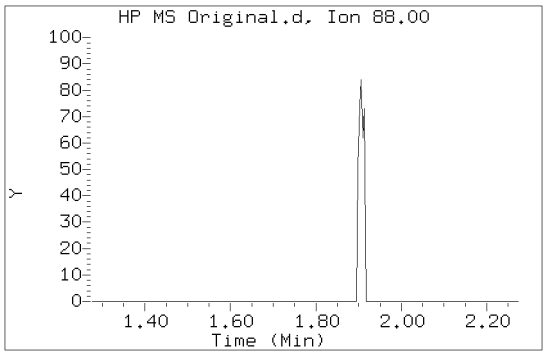

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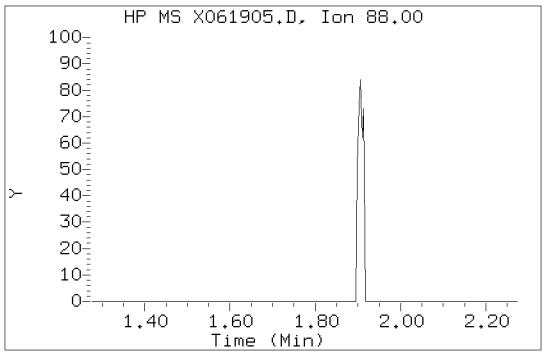

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AFTER

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23-Jun-2023
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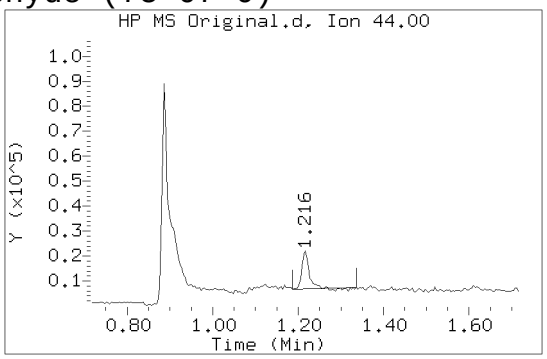


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InstruID : voa6.i
LabSampID : VLCSW-230619

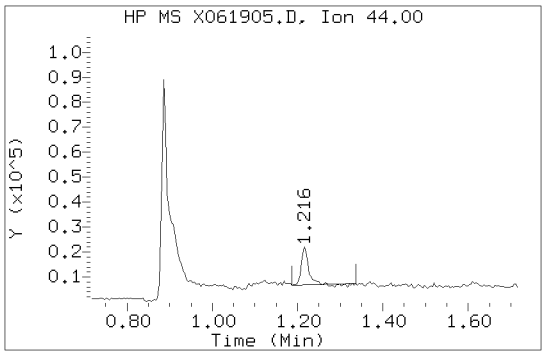
## Acetaldehyde (75-07-0)

Reason Code:

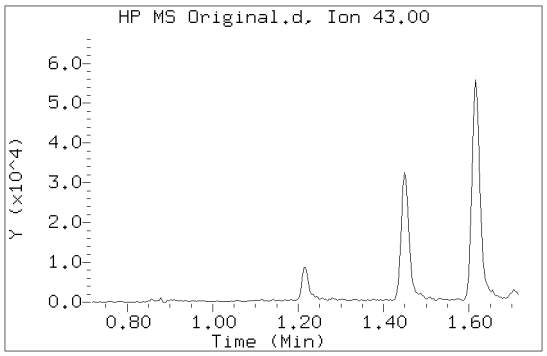
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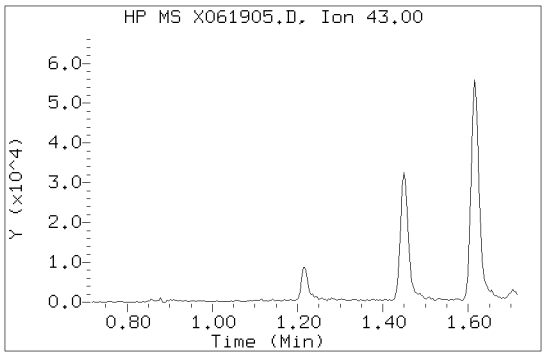

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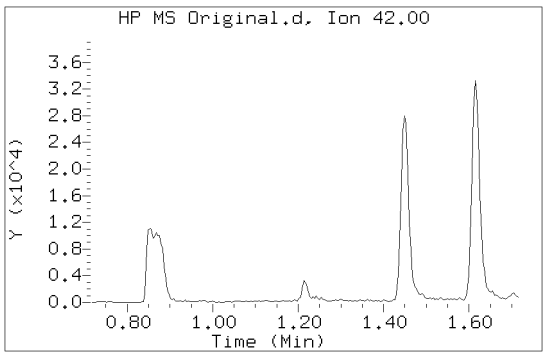

BEFORE
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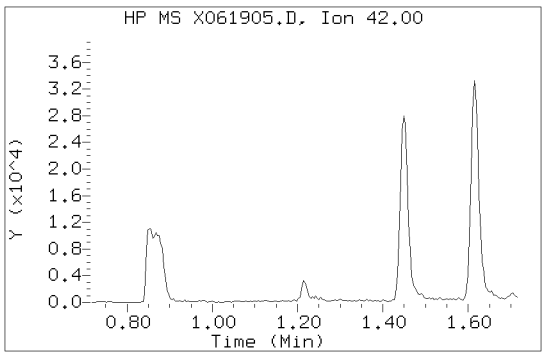

AFTER
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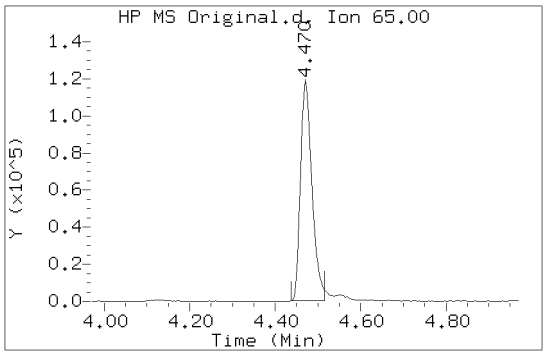

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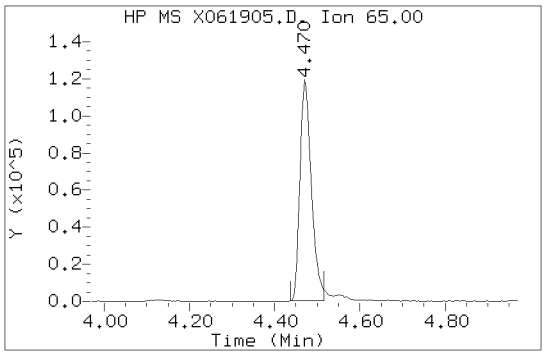

## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

BEFORE
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HEIGHT
119286
23-Jun-2023
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AFTER
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23-Jun-2023
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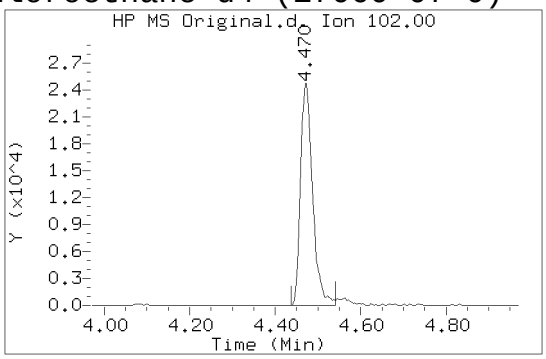
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Inj Date : 19-JUN-2023 12:02
InstruID : voa6.i
LabSampID : VLCSW-230619

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

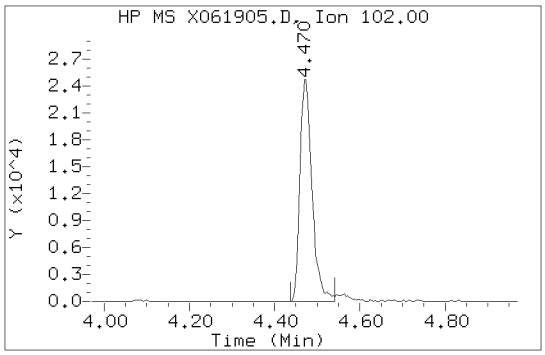
BEFORE

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23-Jun-2023
17:24
linh
pham




AFTER

MASS
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AREA
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HEIGHT
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23-Jun-2023
17:24
linh
pham



ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061907.D
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Inj Date : 19-JUN-2023 12:44
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Misc Info : V6;WATER;0;1;
Comment :
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Meth Date : 23-Jun-2023 17:25 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.177 | 4.178 | (1.000) | 439722 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.981) | 197583 | 50.3154 | 50.31 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.070) | 225001 | 53.1321 | 53.13 |
| * 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 639123 | 50.0000 | |
| * 47 Chlorobenzene-d5 | 117 | 7.667 | 7.668 | (1.000) | 573407 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.385 | 6.386 | (0.833) | 757847 | 52.2762 | 52.27 |
| $ 69 4-Bromofluorobenzene | 95 | 8.687 | 8.687 | (1.133) | 269495 | 48.1189 | 48.11 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 | (1.000) | 290784 | 50.0000 | |

01195694

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061907.D

Page 1

Date : 19-JUN-2023 12:44

Client ID: VBLKW-230619

Instrument: voa6.i

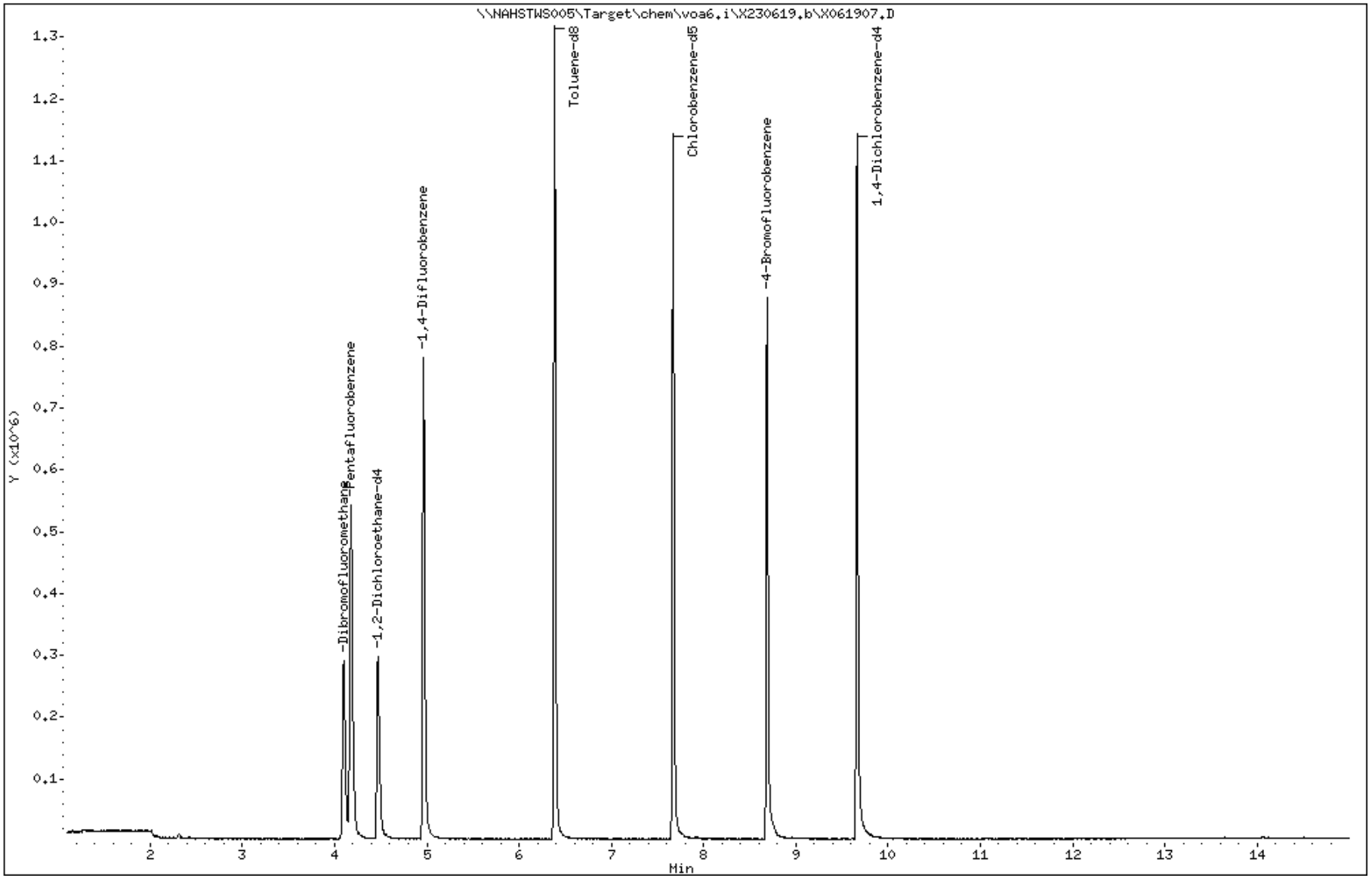
Sample Info: VBLKW-230619;VBLKW-230619;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061907.D
Inj Date  : 19-JUN-2023 12:44
InstruID  : voa6.i
LabSampID : VBLKW-230619

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061908.D  Page 1
Report Date: 23-Jun-2023 17:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061908.D
Lab Smp Id: HS23060999-08  Client Smp ID: HS23060999-08
Inj Date  : 19-JUN-2023 13:05
Operator  : PC  Inst ID: voa6.i
Smp Info  : HS23060999-08;HS23060999-08;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\8260W.m
Meth Date : 23-Jun-2023 17:25 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.178 | 4.178 | (1.000) | 450078 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.095 | 4.099 | (0.980) | 204226 | 50.8139 | 50.81 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.070) | 229710 | 52.9938 | 52.99 |
| * 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 665202 | 50.0000 | |
| * 47 Chlorobenzene-d5 | 117 | 7.668 | 7.668 | (1.000) | 601485 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.386 | 6.386 | (0.833) | 797236 | 52.4261 | 52.42 |
| $ 69 4-Bromofluorobenzene | 95 | 8.687 | 8.687 | (1.133) | 288848 | 49.1786 | 49.17 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 | (1.000) | 315937 | 50.0000 | |

01195697

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061908.D



Date : 19-JUN-2023 13:05

Client ID: HS23060999-08

Instrument: voa6.i

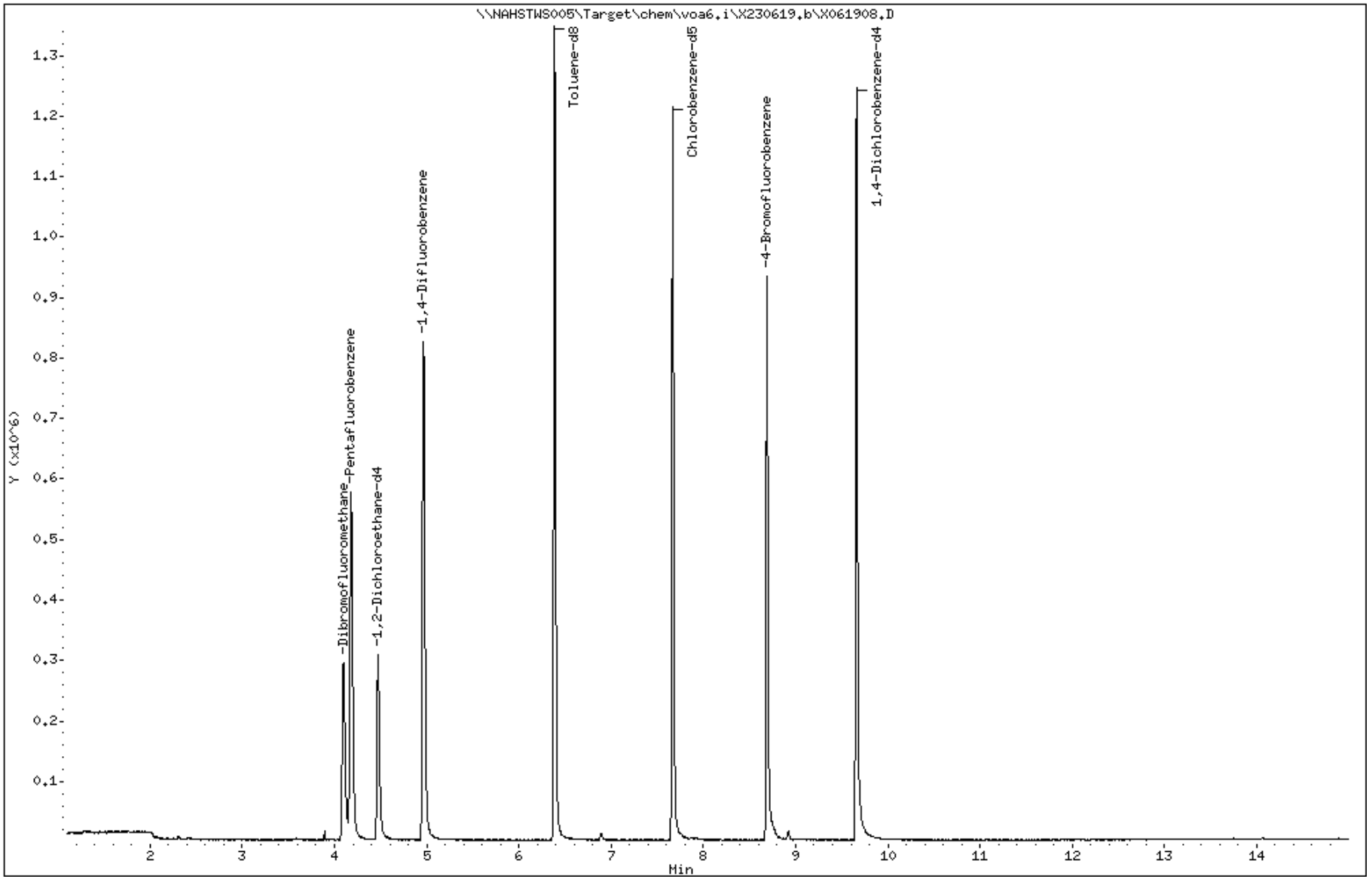
Sample Info: HS23060999-08;HS23060999-08;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061908.D
Inj Date  : 19-JUN-2023 13:05
InstruID  : voa6.i
LabSampID : HS23060999-08

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061909.D  Page 1
Report Date: 23-Jun-2023 17:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061909.D
Lab Smp Id: HS23060999-07  Client Smp ID: HS23060999-07
Inj Date  : 19-JUN-2023 13:26
Operator  : PC  Inst ID: voa6.i
Smp Info  : HS23060999-07;HS23060999-07;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\8260W.m
Meth Date : 23-Jun-2023 17:25 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.181 | 4.178 | (1.000) | 454501 | 50.0000 | |
| 10 Acetone | 43 | 1.981 | 1.973 | (0.474) | 18344 | 15.2486 | 15.24 |
| $ 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.980) | 202420 | 49.8680 | 49.86 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 4.474 | 4.470 | (1.070) | 227602 | 51.9803 | 51.98 |
| * 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 657516 | 50.0000 | |
| 38 Trichloroethene | 130 | 5.209 | 5.205 | (1.049) | 3858 | 0.82732 | 0.82(a) |
| * 47 Chlorobenzene-d5 | 117 | 7.668 | 7.668 | (1.000) | 588079 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.386 | 6.386 | (0.833) | 799398 | 53.7666 | 53.76 |
| $ 69 4-Bromofluorobenzene | 95 | 8.687 | 8.687 | (1.133) | 279290 | 48.6293 | 48.62 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 | (1.000) | 304514 | 50.0000 | |

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01195700

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061909.D

Page 1

Date : 19-JUN-2023 13:26

Client ID: HS23060999-07

Instrument: voa6.i

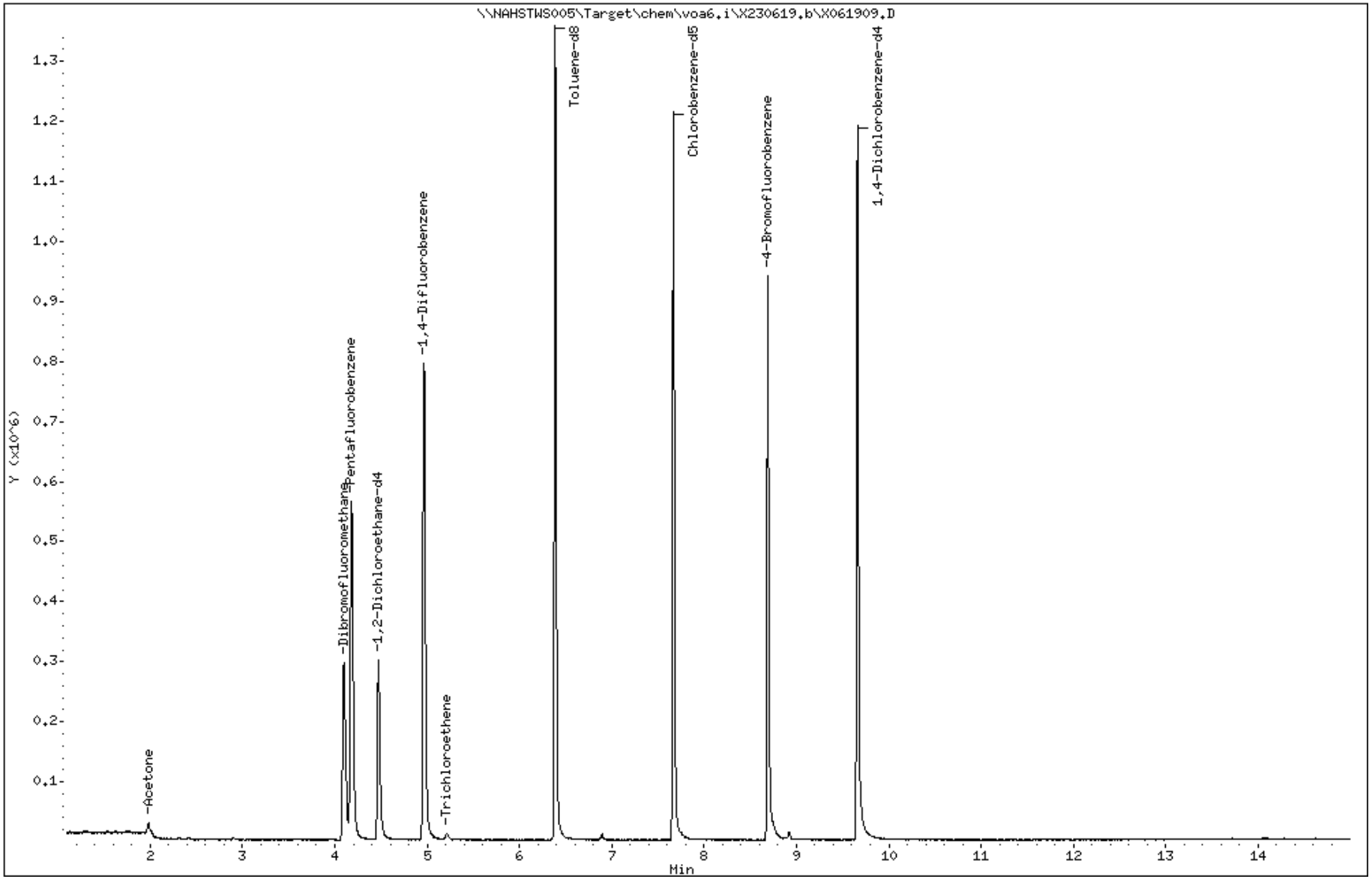
Sample Info: HS23060999-07;HS23060999-07;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061909.D

Date : 19-JUN-2023 13:26

Client ID: HS23060999-07

Instrument: voa6.i

Sample Info: HS23060999-07;HS23060999-07;;;

Purge Volume: 5.0

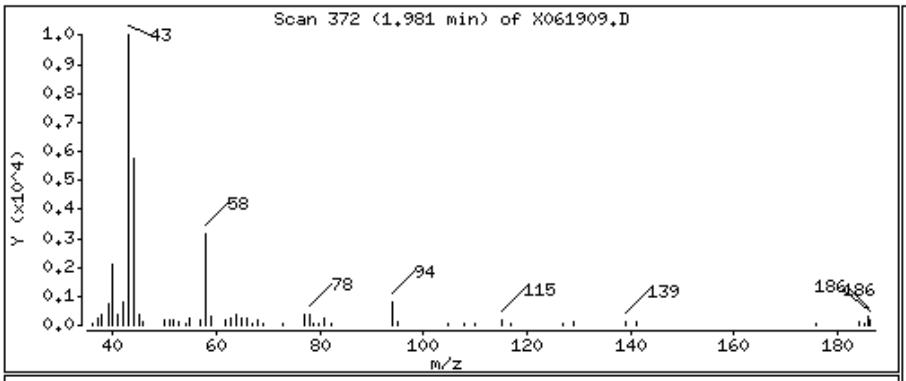
Operator: PC

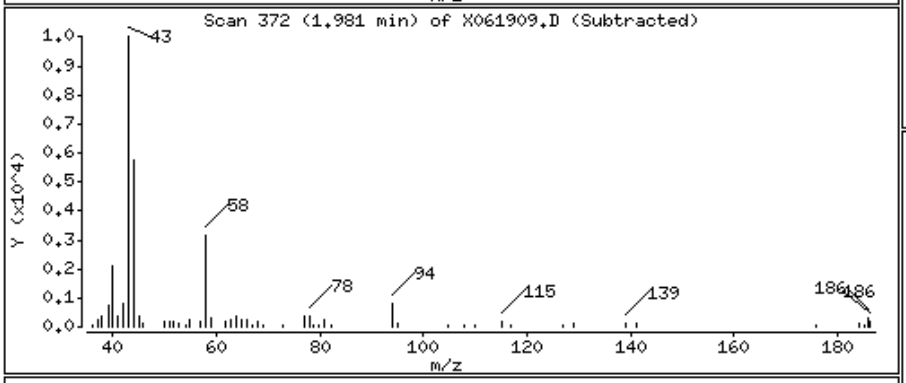
Column phase: DB624

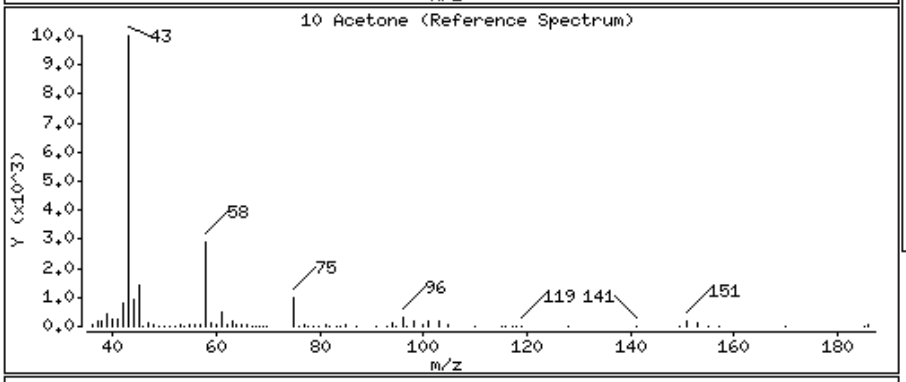
Column diameter: 0.18

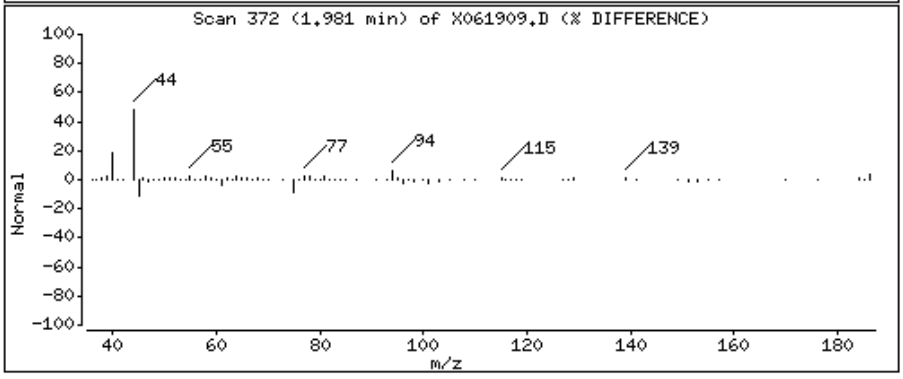
10 Acetone

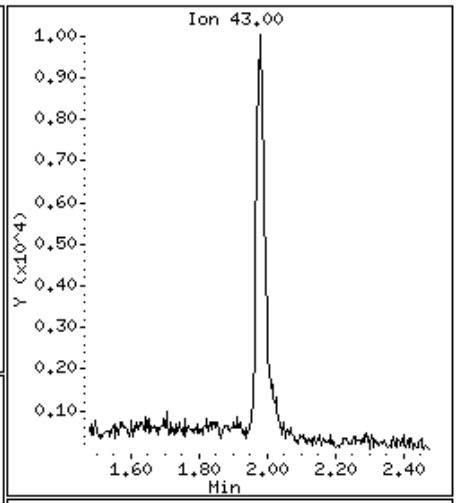
Concentration: 15.24 ug/l

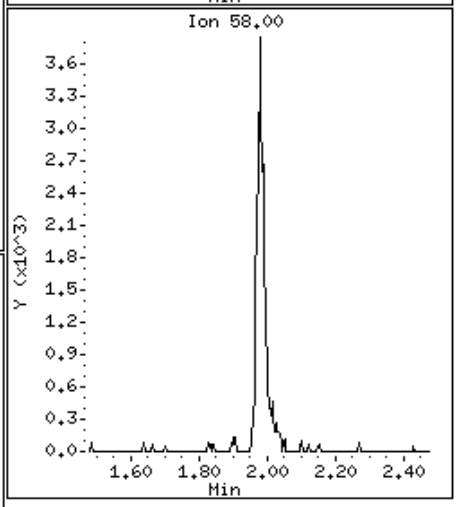


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061909.D Page 3

Date : 19-JUN-2023 13:26

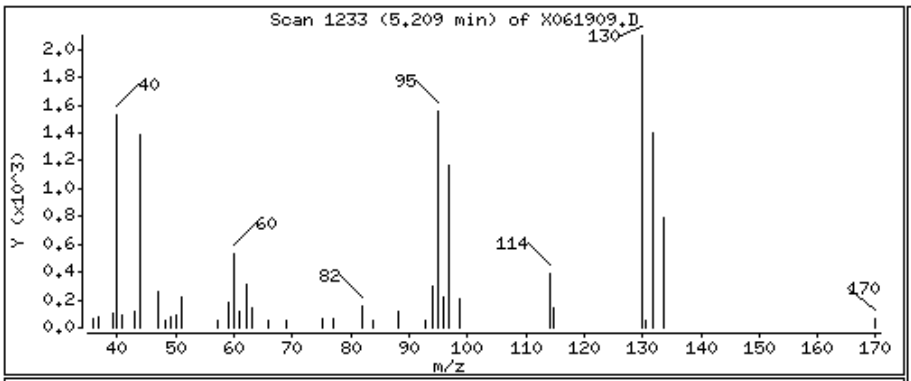
Client ID: HS23060999-07 Instrument: voa6.i

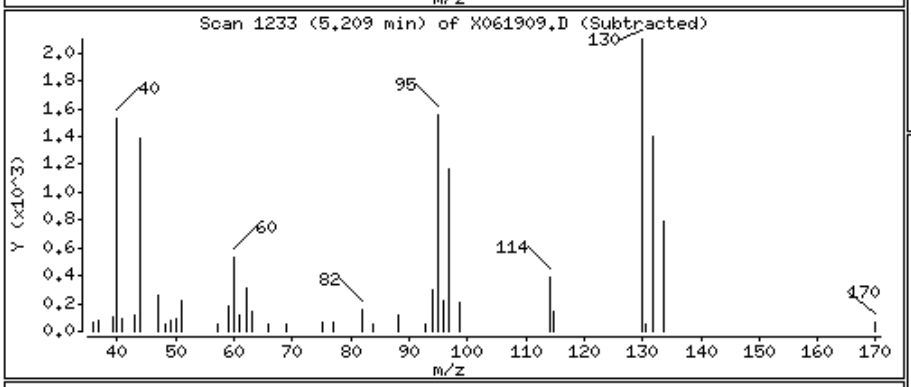
Sample Info: HS23060999-07;HS23060999-07;;;

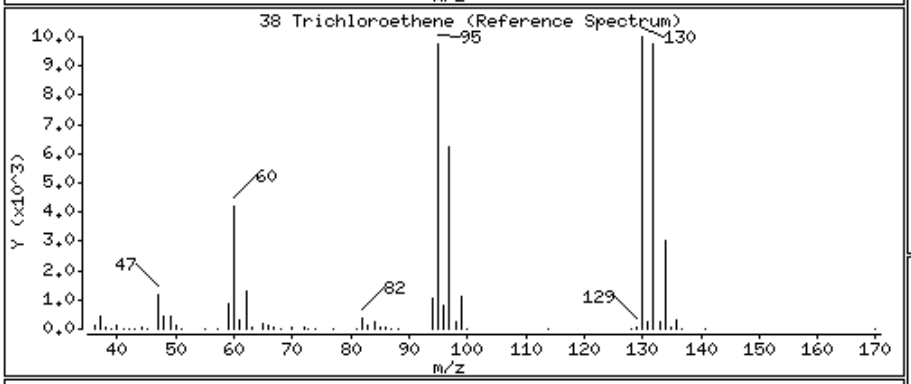
Purge Volume: 5.0 Operator: PC

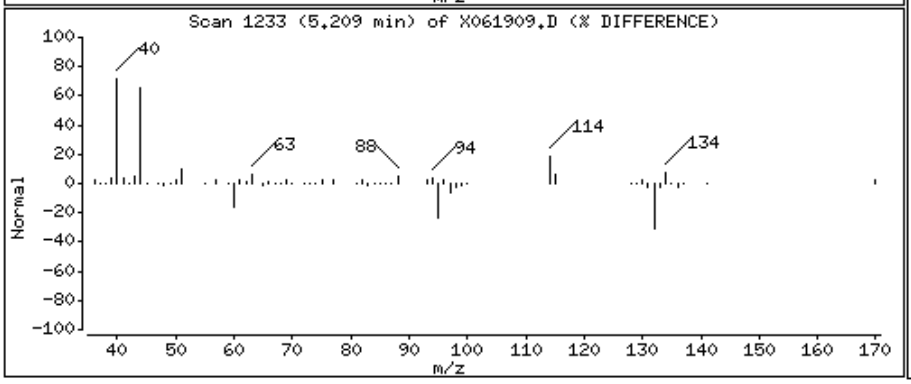
Column phase: DB624 Column diameter: 0.18

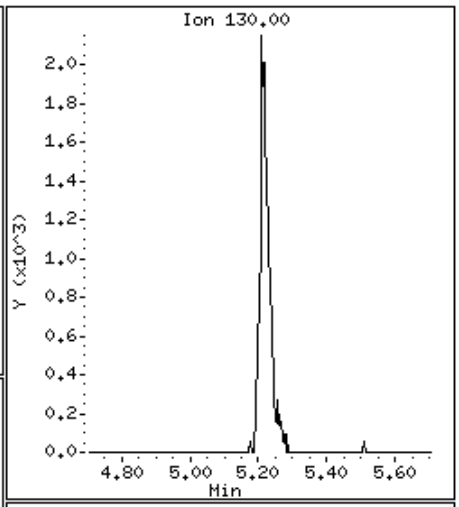
38 Trichloroethene Concentration: 0.82 ug/l

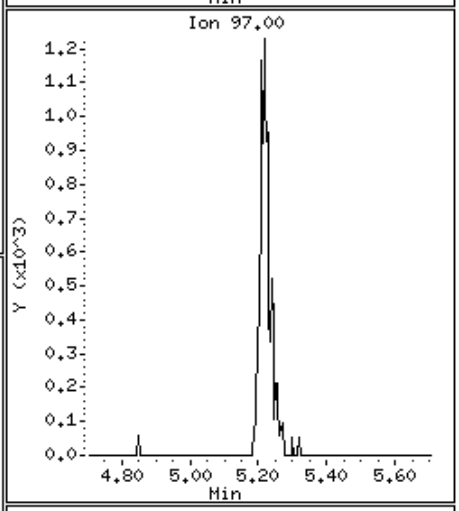


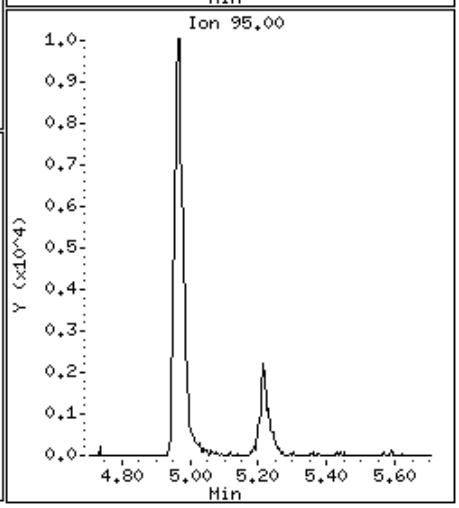



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061909.D
Inj Date  : 19-JUN-2023 13:26
InstruID  : voa6.i
LabSampID : HS23060999-07

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061910.D  Page 1
Report Date: 23-Jun-2023 17:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061910.D
Lab Smp Id: HS23060999-04  Client Smp ID: HS23060999-04
Inj Date  : 19-JUN-2023 13:47
Operator  : PC  Inst ID: voa6.i
Smp Info  : HS23060999-04;HS23060999-04;;;
Misc Info : V6;WATER;0;10;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\8260W.m
Meth Date : 23-Jun-2023 17:25 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 10
Dil Factor: 10.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 10.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * | 1 Pentafluorobenzene | 168 | 4.177 | 4.178 | (1.000) | 449787 | 50.0000 | |
| | 135 1,4-Dioxane | 88 | 5.609 | 5.598 | (1.343) | 5720 | 104.937 | 1049.37(a) |
| | 5 Vinyl Chloride | 62 | 1.149 | 1.145 | (0.275) | 7340 | 1.55386 | 15.53(a) |
| | 11 1,1-Dichloroethene | 96 | 1.917 | 1.917 | (0.459) | 78647 | 22.3341 | 223.34 |
| | 20 trans-1,2-Dichloroethene | 96 | 2.539 | 2.528 | (0.608) | 12238 | 2.90436 | 29.04(a) |
| | 22 1,1-Dichloroethane | 63 | 2.925 | 2.922 | (0.700) | 31650 | 4.16954 | 41.69(a) |
| | 27 cis-1,2-Dichloroethene | 96 | 3.525 | 3.525 | (0.844) | 1051655 | 216.429 | 2164.29(A) |
| | 28 Chloroform | 83 | 3.911 | 3.904 | (0.936) | 9285 | 1.13647 | 11.36(a) |
| $ | 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.981) | 202719 | 50.4692 | 50.46 |
| | 33 1,2-Dichloroethane | 62 | 4.556 | 4.552 | (0.918) | 116161 | 20.9021 | 209.02 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.070) | 230276 | 53.1614 | 53.16 |
| * | 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 661882 | 50.0000 | |
| | 37 Benzene | 78 | 4.522 | 4.511 | (0.911) | 10429 | 0.61256 | 6.12(a) |
| | 38 Trichloroethene | 130 | 5.205 | 5.205 | (1.048) | 7662268 | 1632.28 | 16322.77(A) |
| * | 47 Chlorobenzene-d5 | 117 | 7.667 | 7.668 | (1.000) | 576229 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.385 | 6.386 | (0.833) | 787501 | 54.0556 | 54.05 |
| $ | 69 4-Bromofluorobenzene | 95 | 8.691 | 8.687 | (1.133) | 268453 | 47.6934 | 47.69 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 | (1.000) | 284486 | 50.0000 | |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 1063893 | 219.334 | 2193.33 |

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.

01195707

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061910.D

Page 1

Date : 19-JUN-2023 13:47

Client ID: HS23060999-04

Instrument: voa6.i

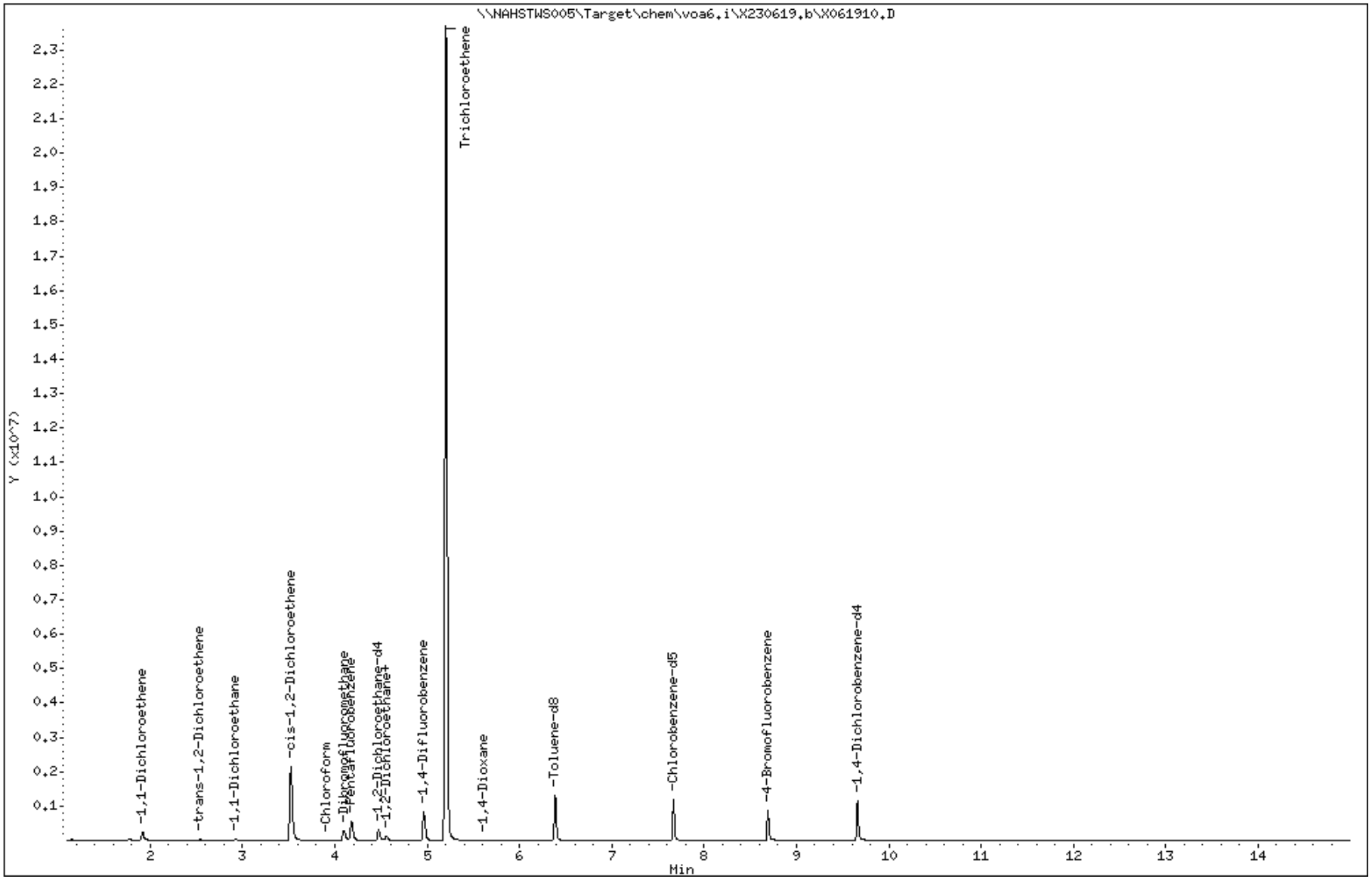
Sample Info: HS23060999-04;HS23060999-04;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061910.D

Date : 19-JUN-2023 13:47

Client ID: HS23060999-04

Instrument: voa6.i

Sample Info: HS23060999-04;HS23060999-04;;;

Purge Volume: 5.0

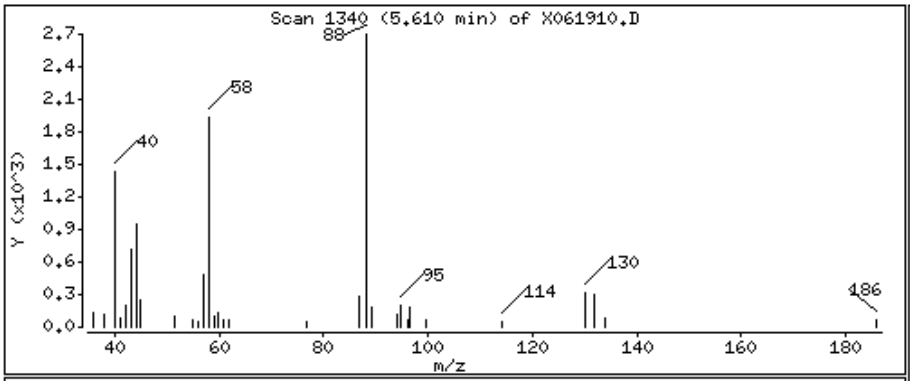
Operator: PC

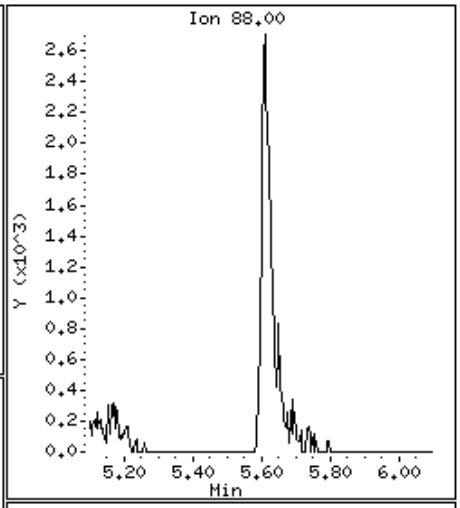
Column phase: DB624

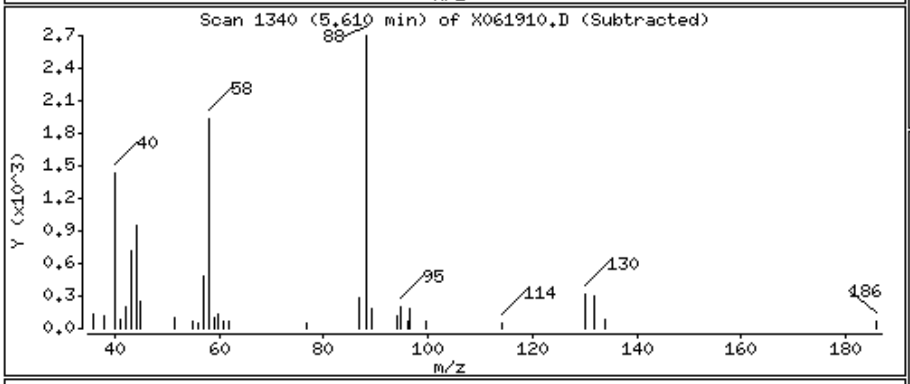
Column diameter: 0.18

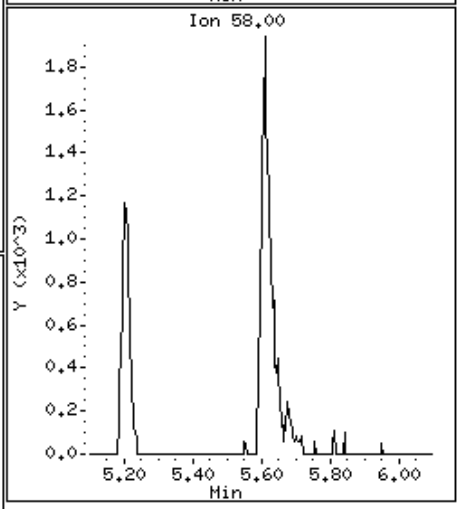
135 1,4-Dioxane

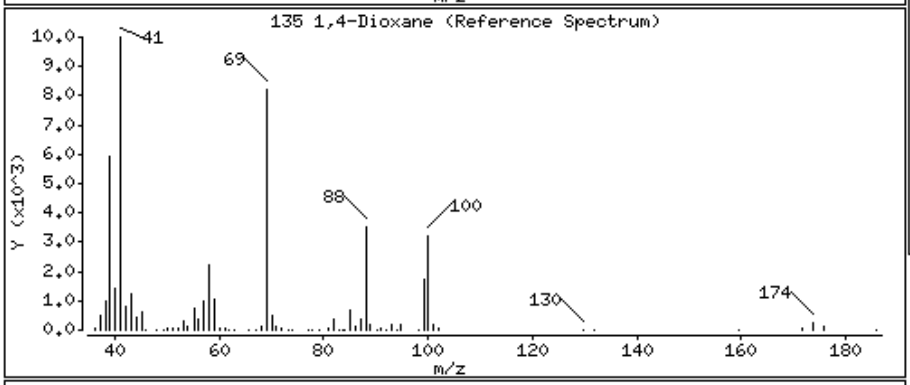
Concentration: 1049.37 ug/l

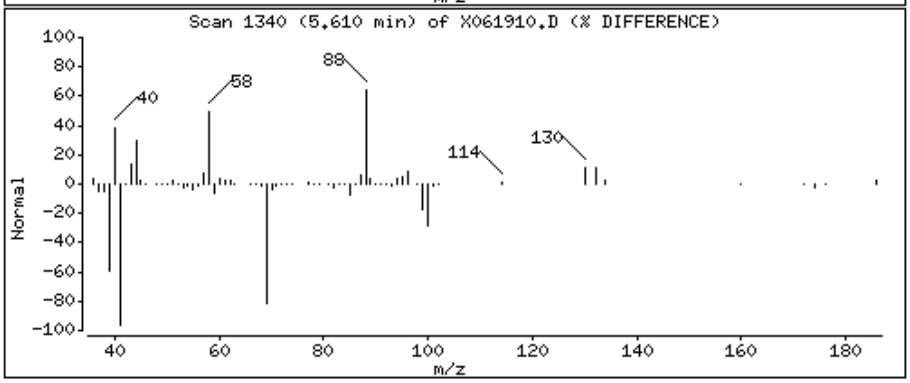


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061910.D

Date : 19-JUN-2023 13:47

Client ID: HS23060999-04

Instrument: voa6.i

Sample Info: HS23060999-04;HS23060999-04;;;

Purge Volume: 5.0

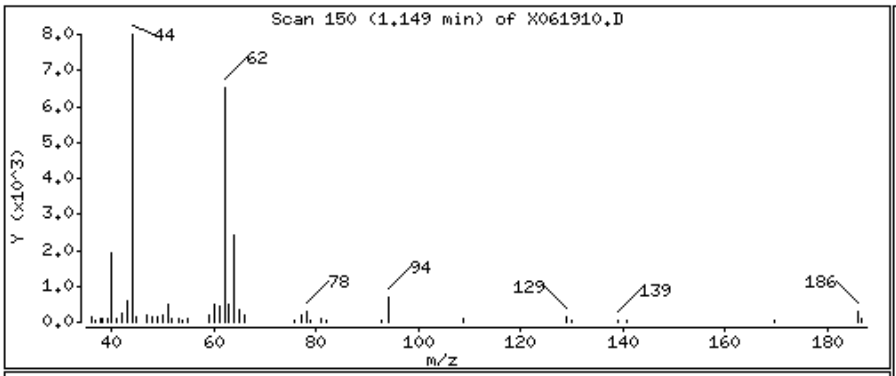
Operator: PC

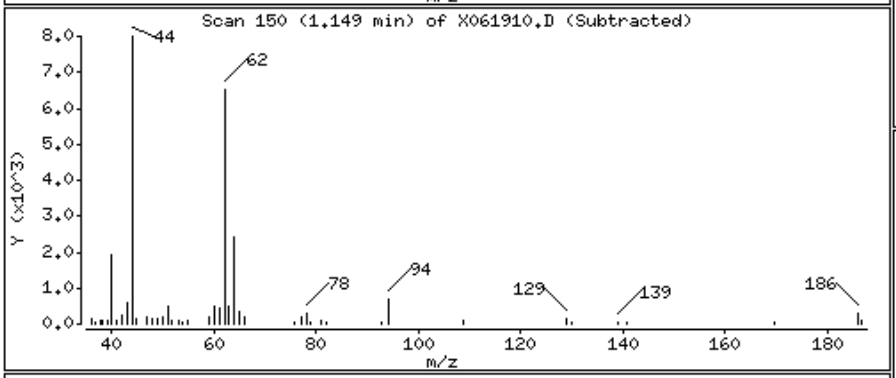
Column phase: DB624

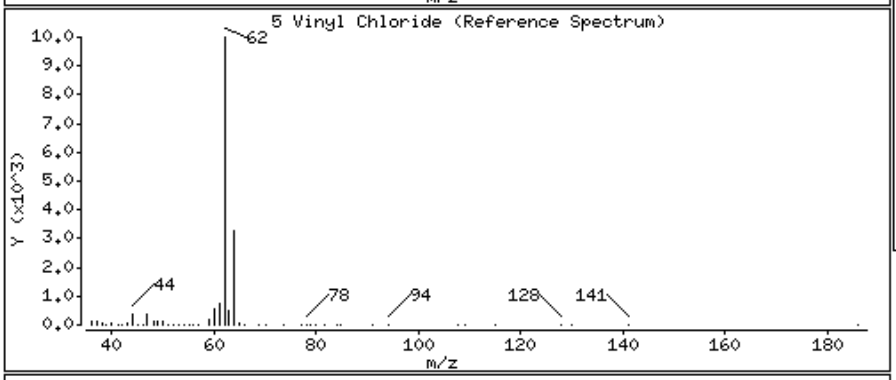
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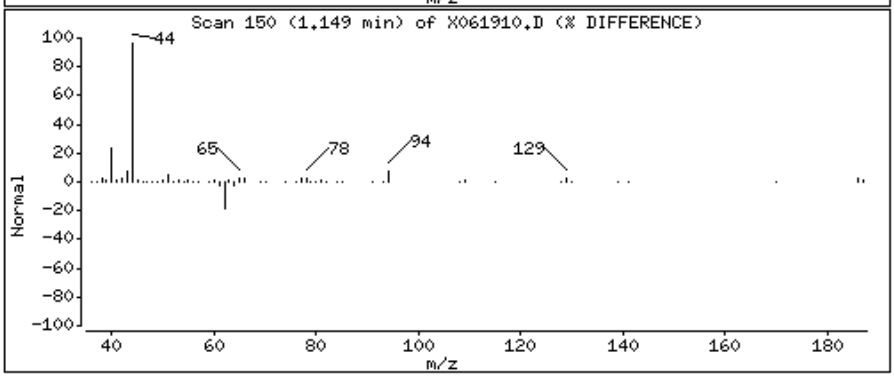
5 Vinyl Chloride

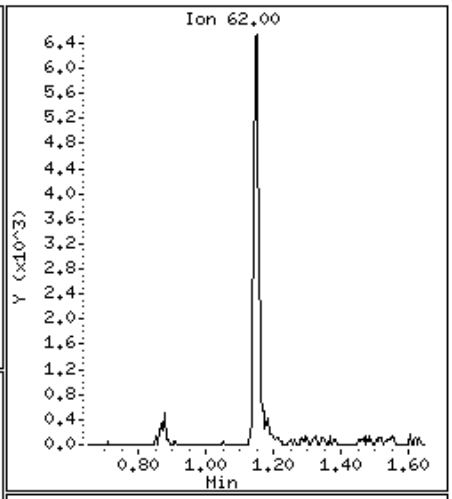
Concentration: 15.53 ug/l

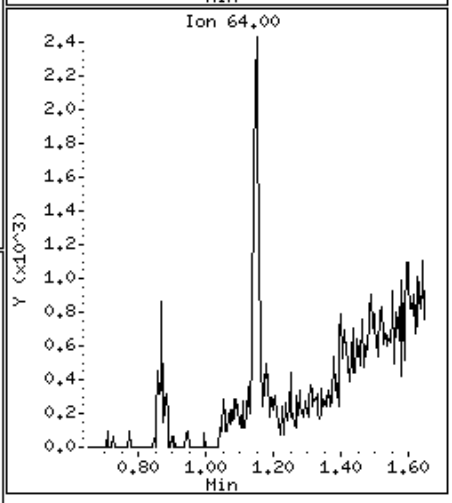


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061910.D

Date : 19-JUN-2023 13:47

Client ID: HS23060999-04

Instrument: voa6.i

Sample Info: HS23060999-04;HS23060999-04;;;

Purge Volume: 5.0

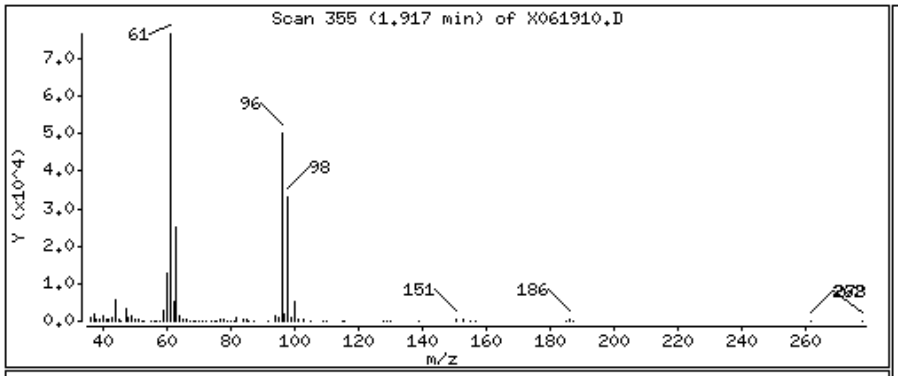
Operator: PC

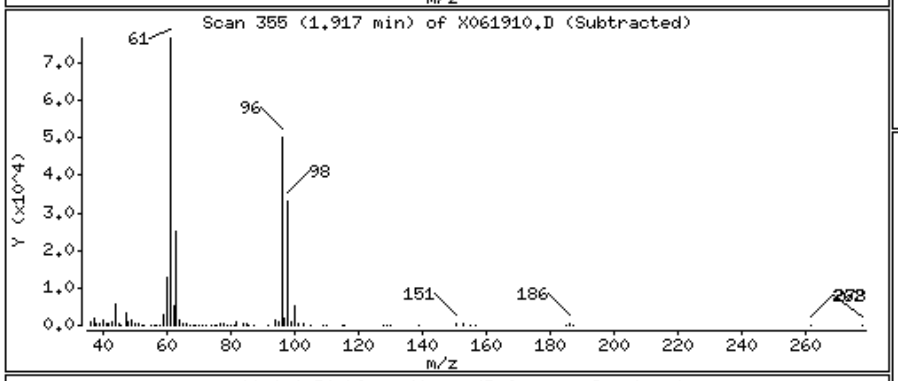
Column phase: DB624

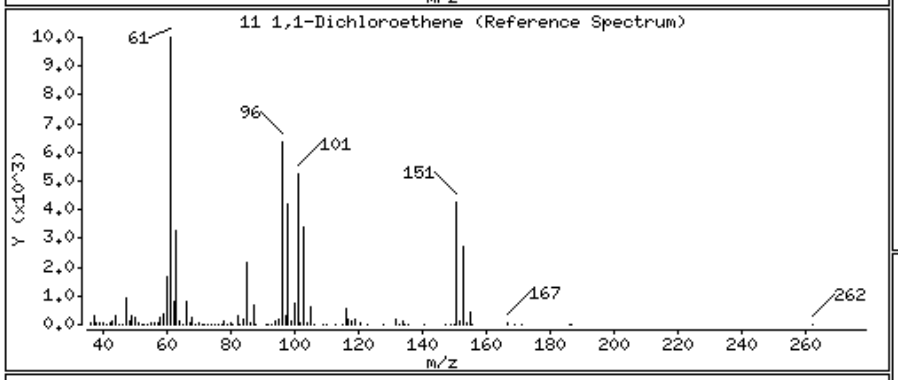
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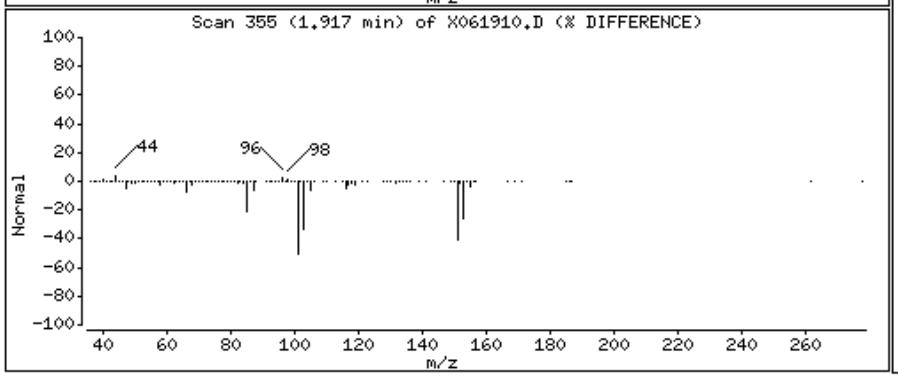
11 1,1-Dichloroethene

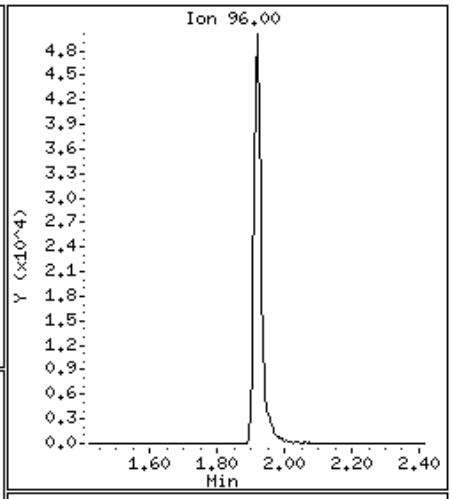
Concentration: 223.34 ug/l

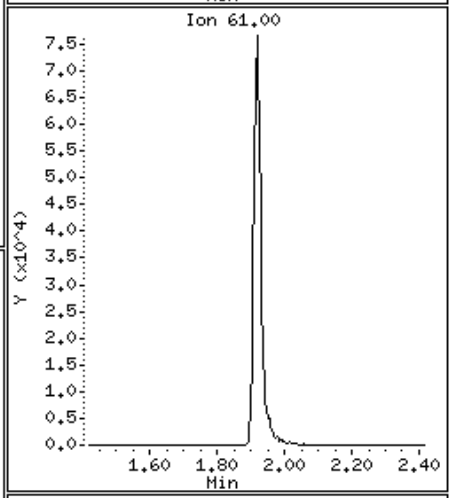


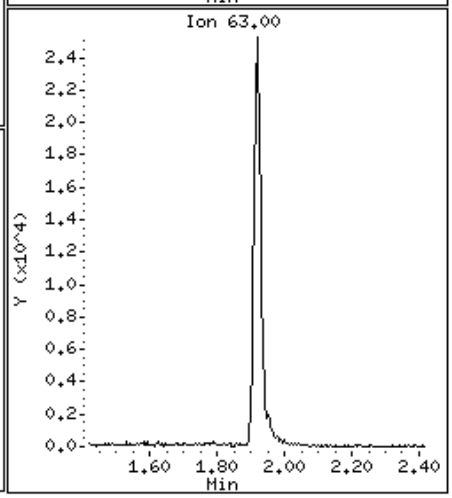



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061910.D Page 5

Date : 19-JUN-2023 13:47

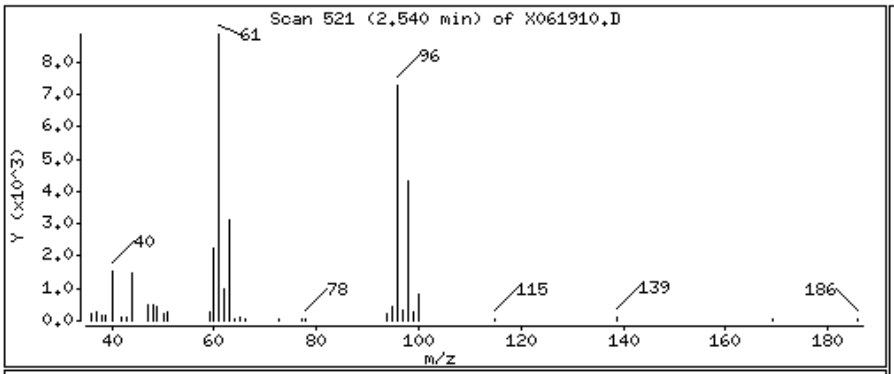
Client ID: HS23060999-04 Instrument: voa6.i

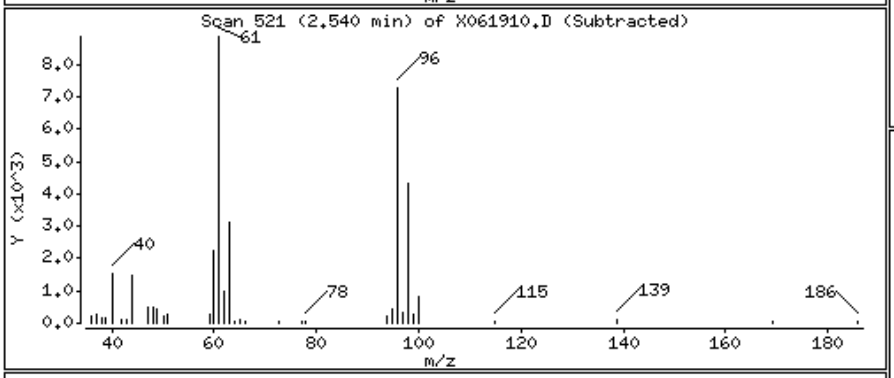
Sample Info: HS23060999-04;HS23060999-04;;;

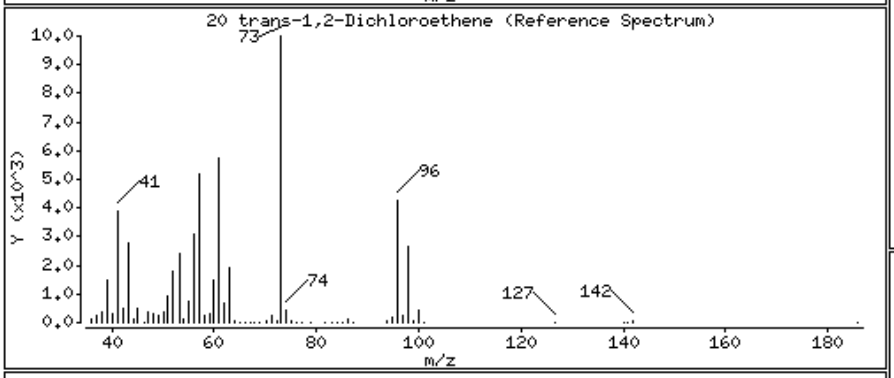
Purge Volume: 5.0 Operator: PC

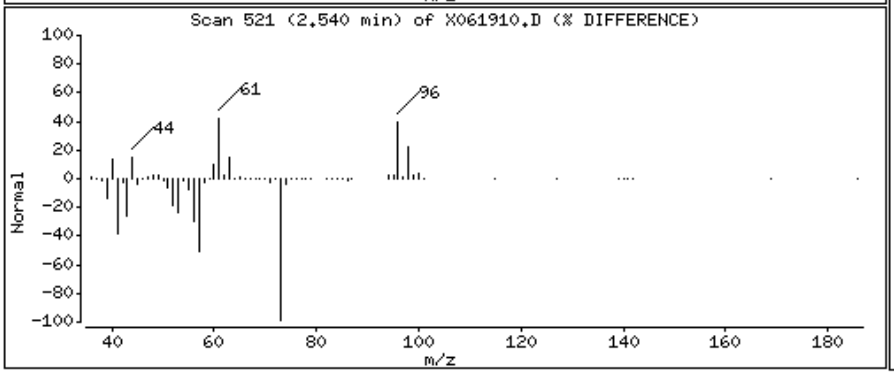
Column phase: DB624 Column diameter: 0.18

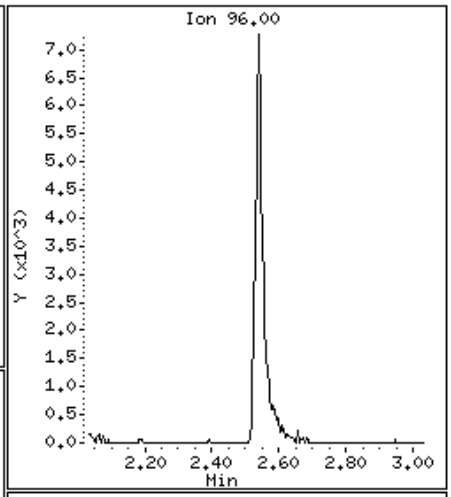
20 trans-1,2-Dichloroethene Concentration: 29.04 ug/l

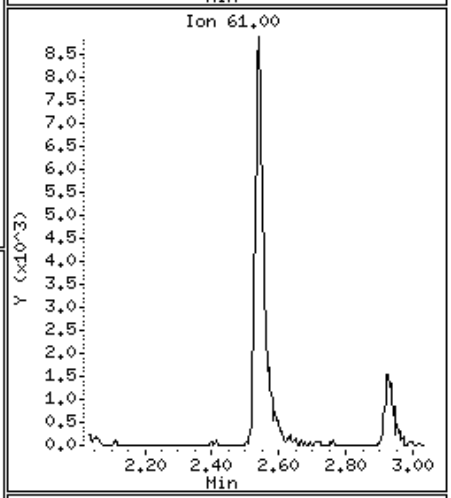


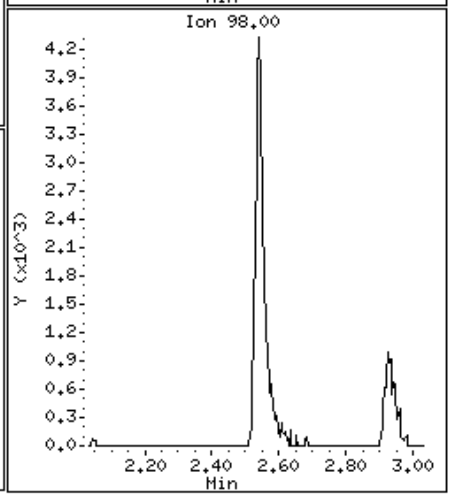



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061910.D Page 6

Date : 19-JUN-2023 13:47

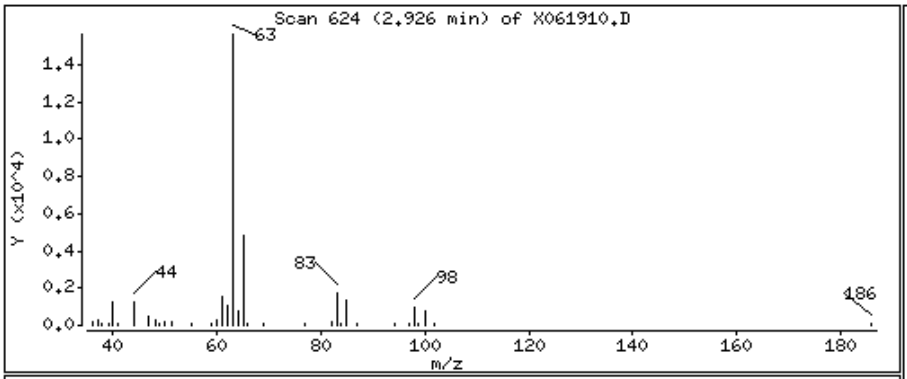
Client ID: HS23060999-04 Instrument: voa6.i

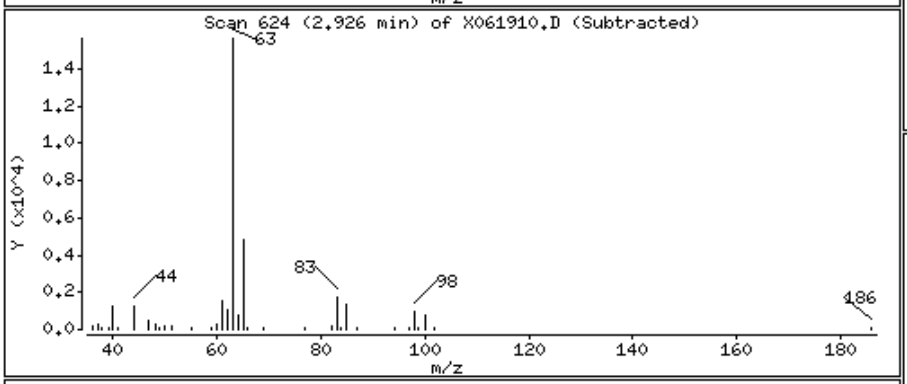
Sample Info: HS23060999-04;HS23060999-04;;;

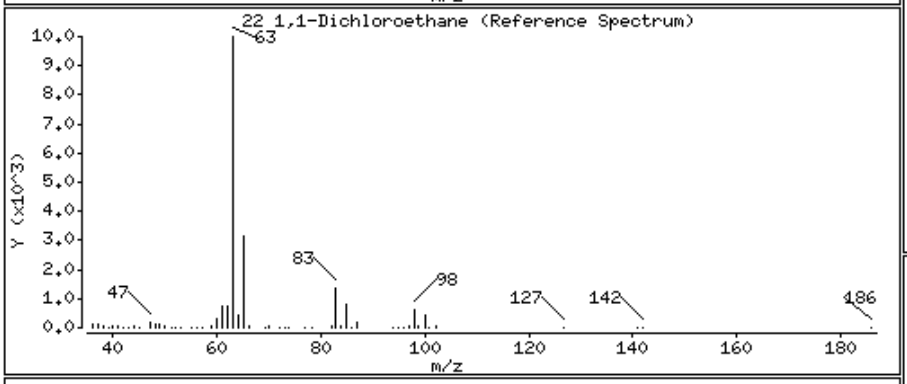
Purge Volume: 5.0 Operator: PC

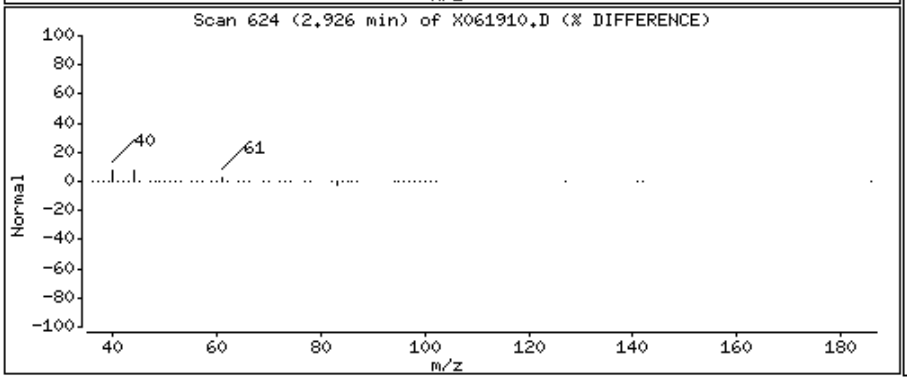
Column phase: DB624 Column diameter: 0.18

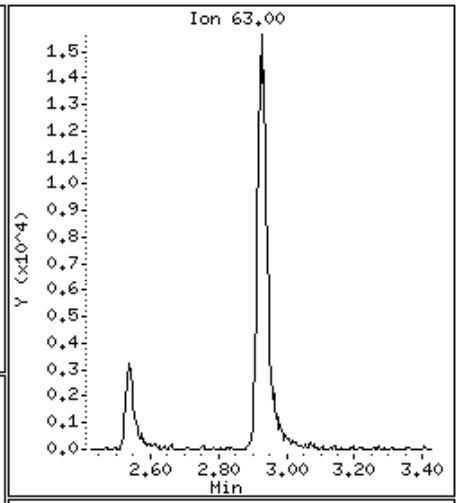
22 1,1-Dichloroethane Concentration: 41.69 ug/l

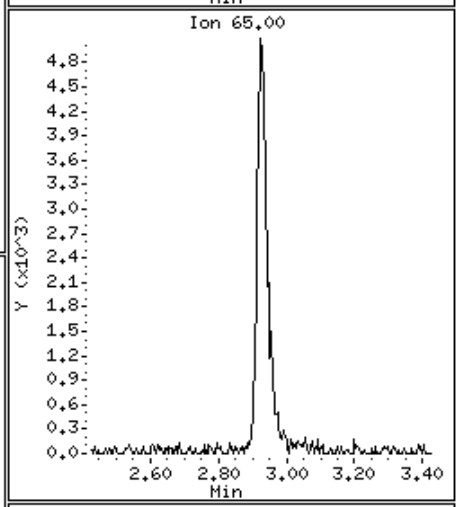


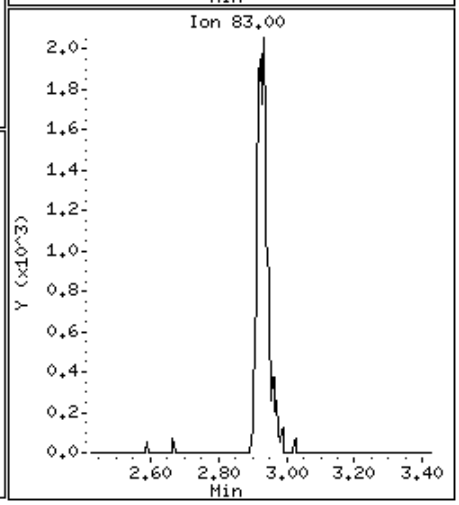



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061910.D



Date : 19-JUN-2023 13:47

Client ID: HS23060999-04

Instrument: voa6.i

Sample Info: HS23060999-04;HS23060999-04;;;

Purge Volume: 5.0

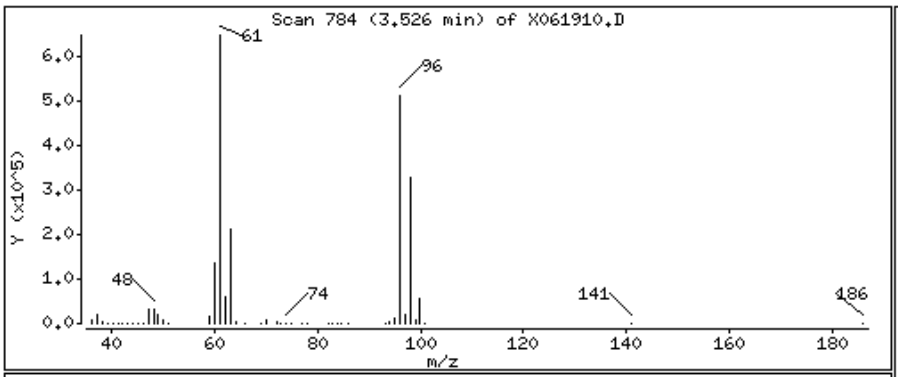
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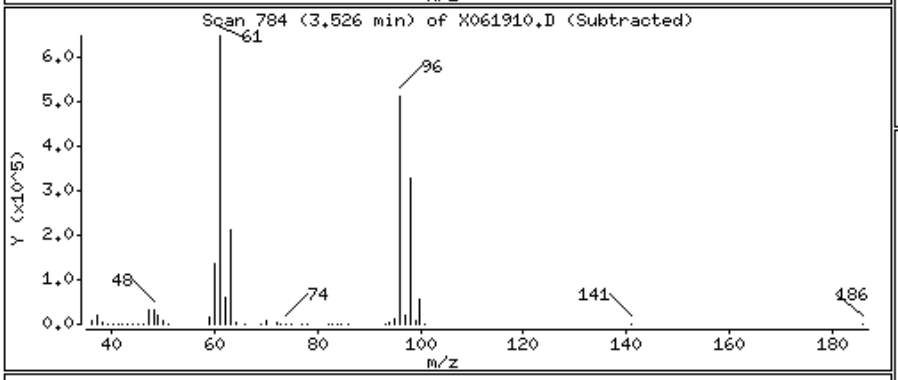
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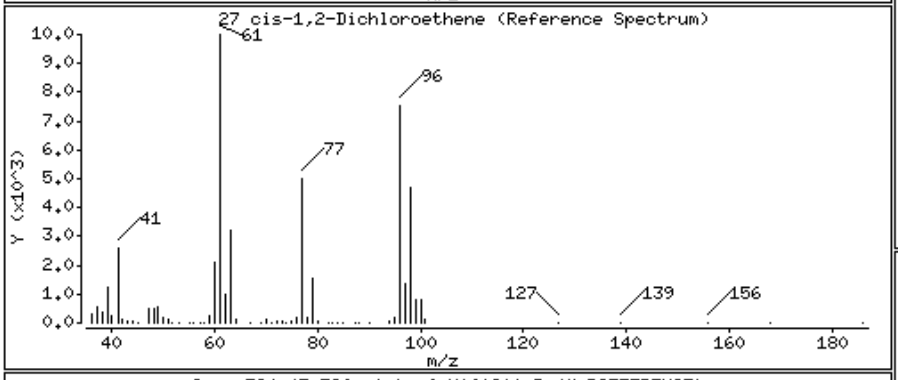
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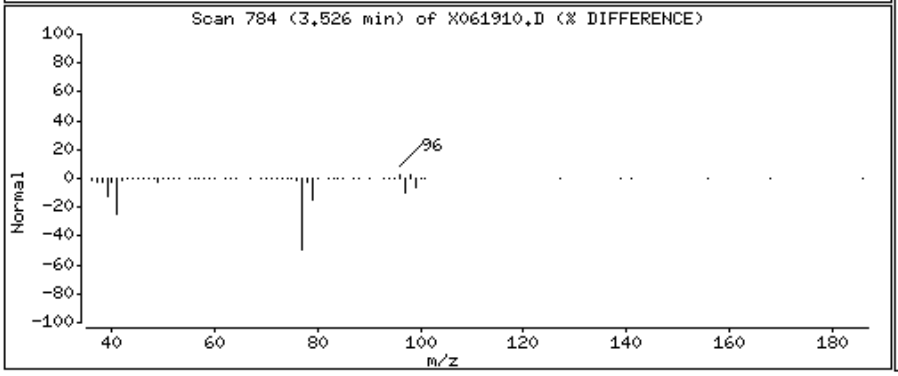
27 cis-1,2-Dichloroethene

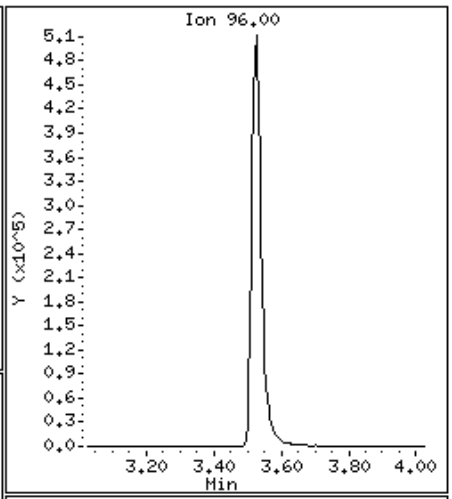
Concentration: 2164.29 ug/l

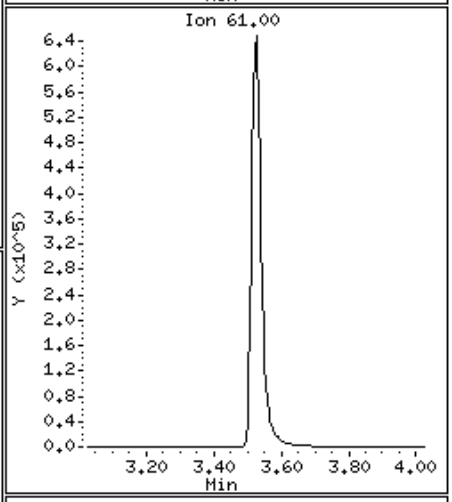


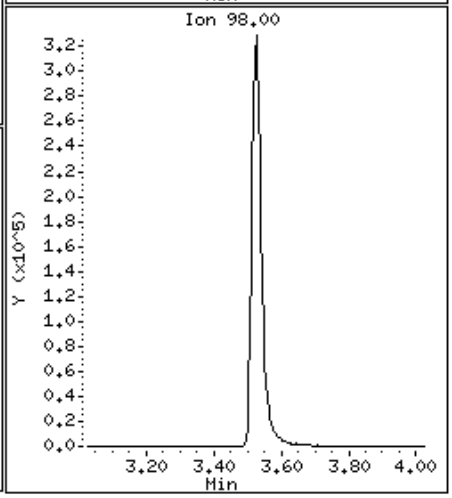



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061910.D Page 8

Date : 19-JUN-2023 13:47

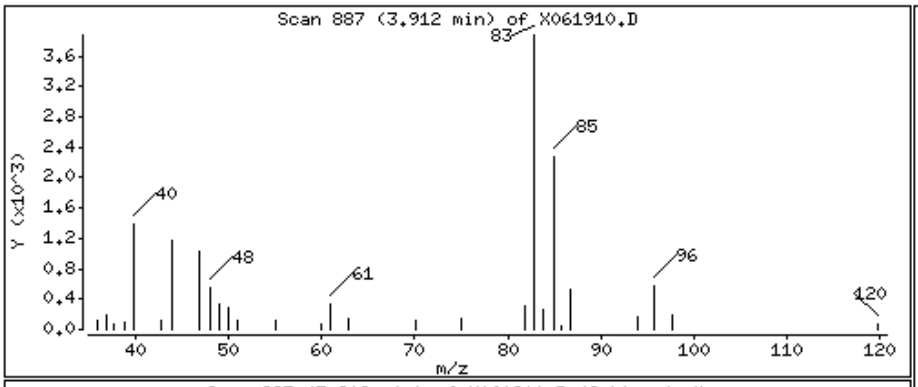
Client ID: HS23060999-04 Instrument: voa6.i

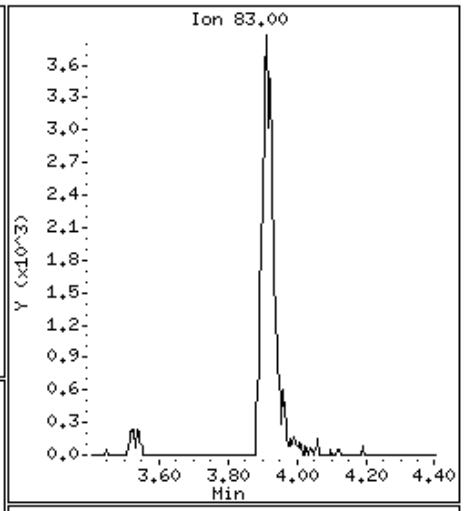
Sample Info: HS23060999-04;HS23060999-04;;;

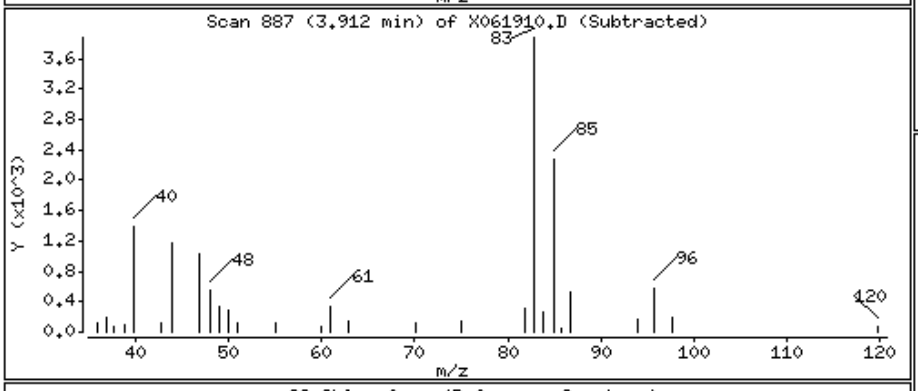
Purge Volume: 5.0 Operator: PC

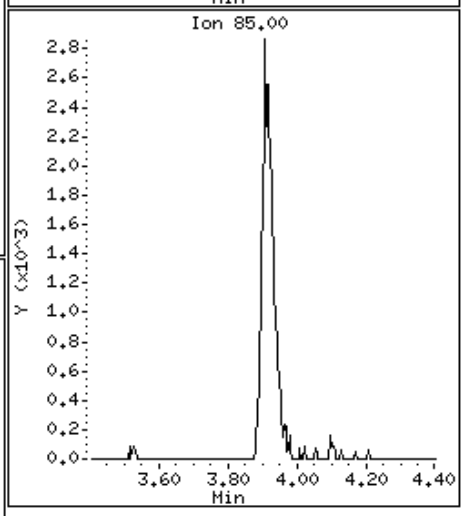
Column phase: DB624 Column diameter: 0.18

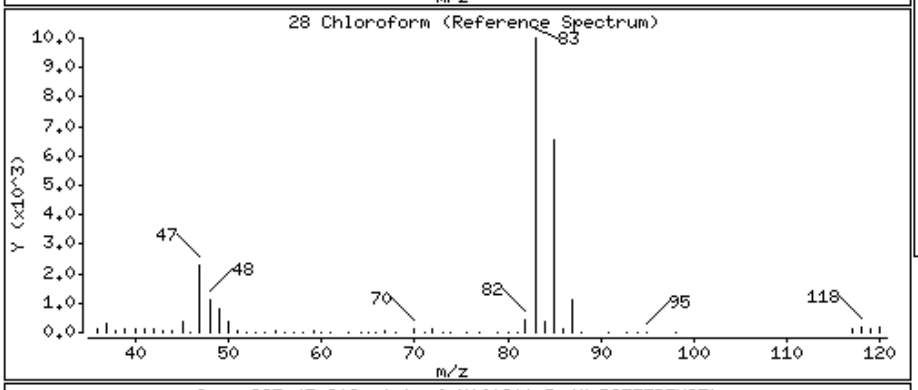
28 Chloroform Concentration: 11.36 ug/l

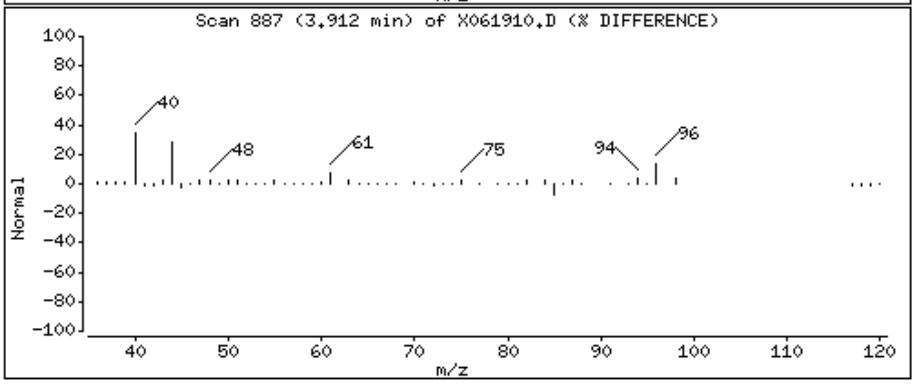


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Date : 19-JUN-2023 13:47

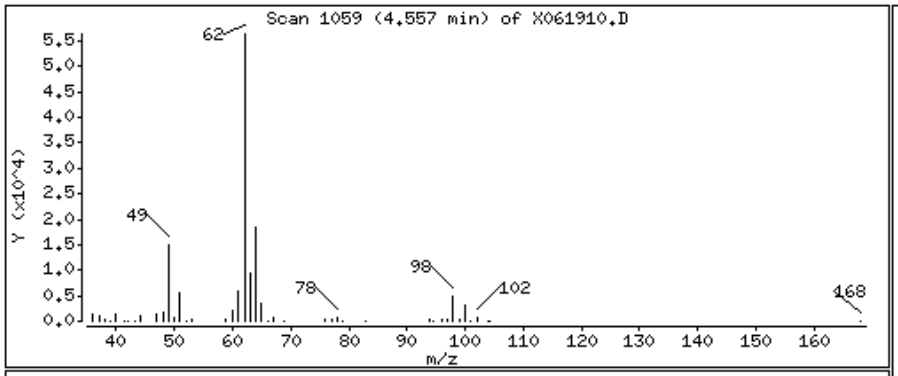
Client ID: HS23060999-04 Instrument: voa6.i

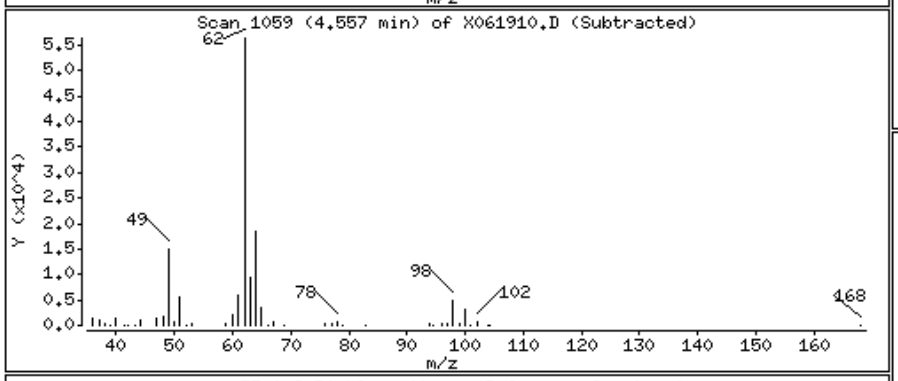
Sample Info: HS23060999-04;HS23060999-04;;;

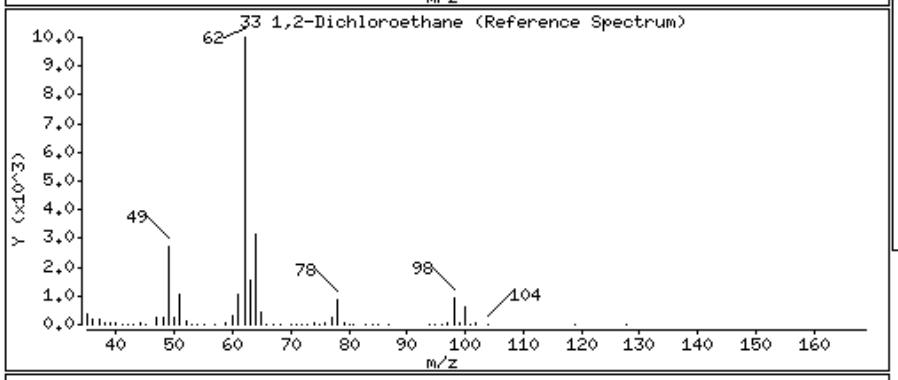
Purge Volume: 5.0 Operator: PC

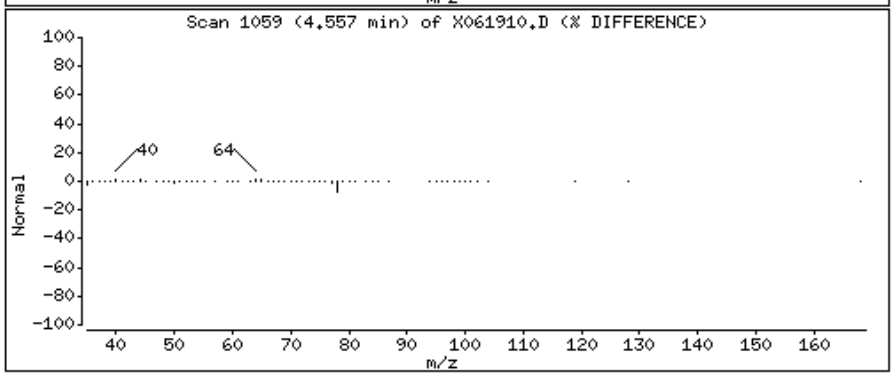
Column phase: DB624 Column diameter: 0.18

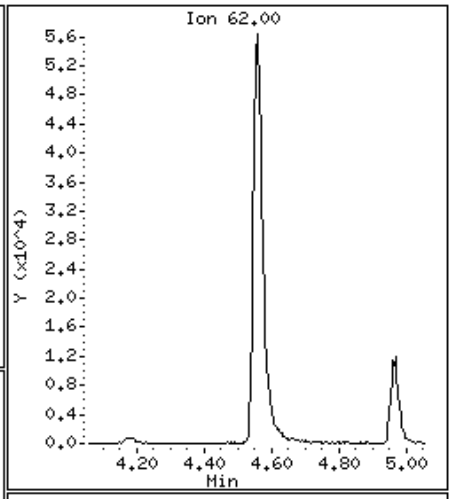
33 1,2-Dichloroethane Concentration: 209.02 ug/l

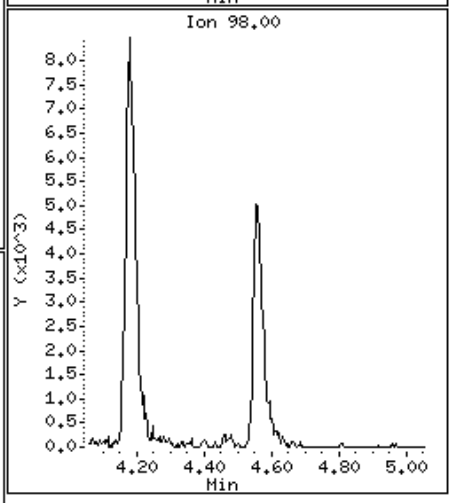


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Date : 19-JUN-2023 13:47

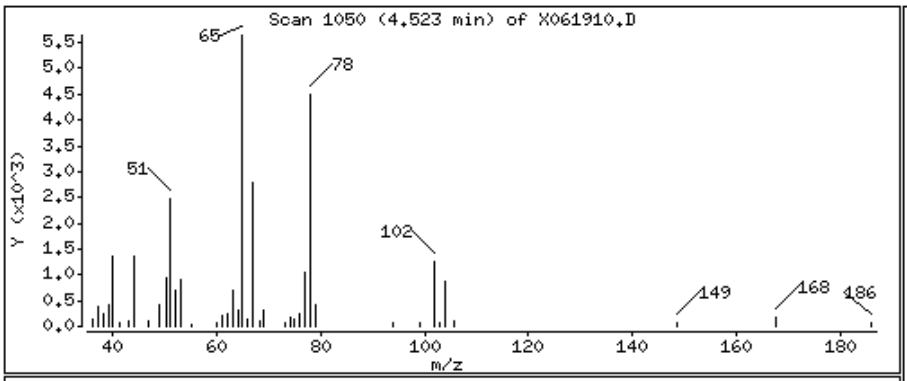
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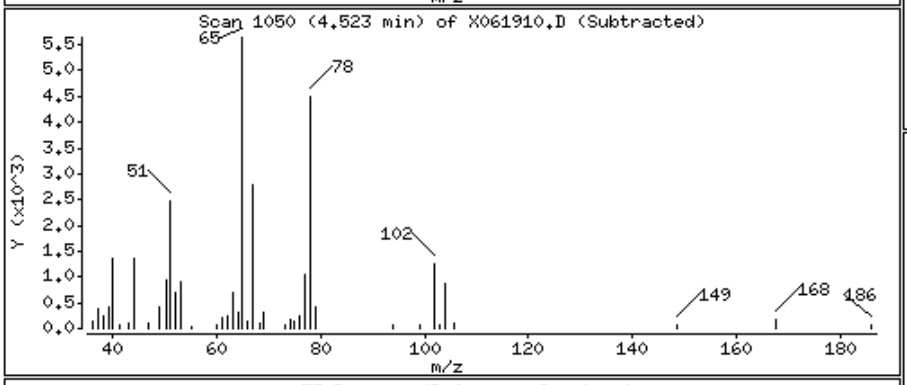
Sample Info: HS23060999-04;HS23060999-04;;;

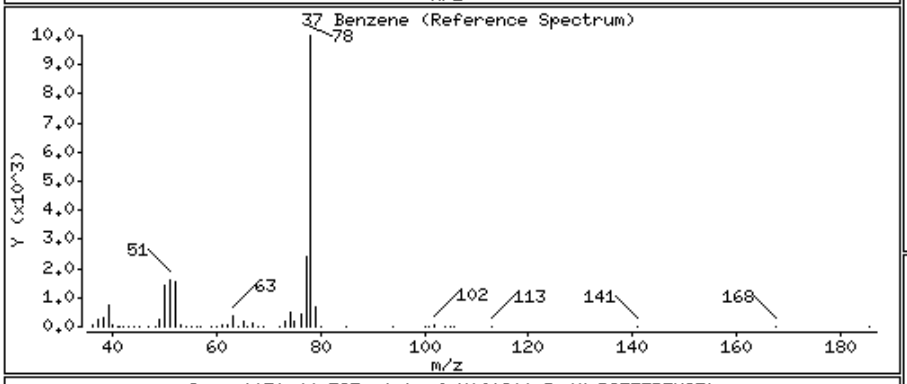
Purge Volume: 5.0 Operator: PC

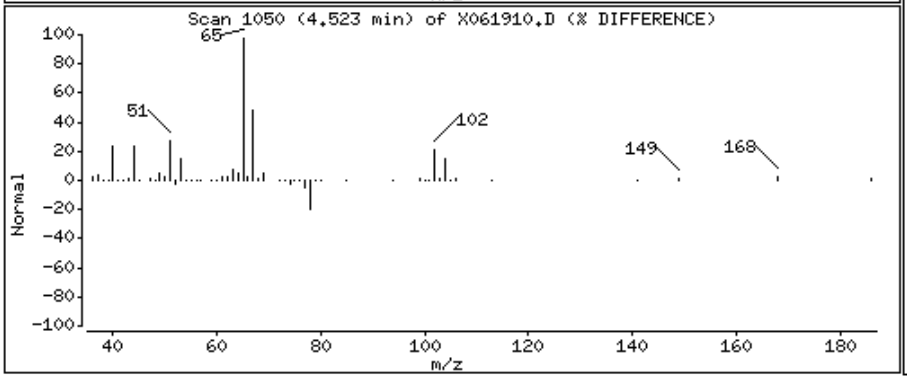
Column phase: DB624 Column diameter: 0.18

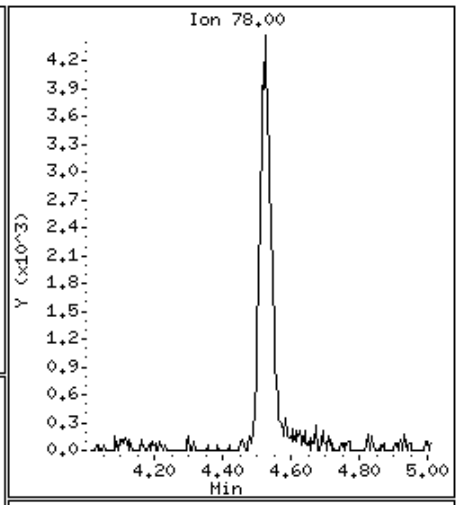
37 Benzene Concentration: 6.12 ug/l

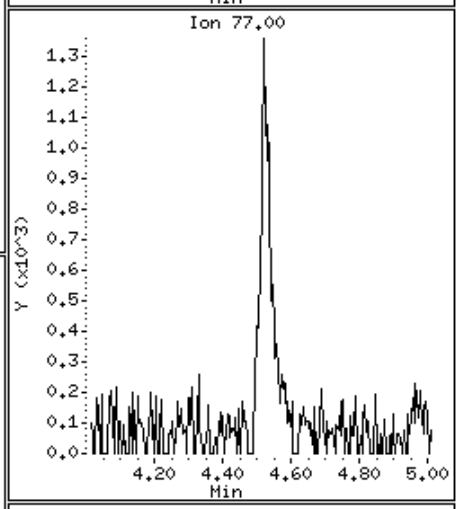


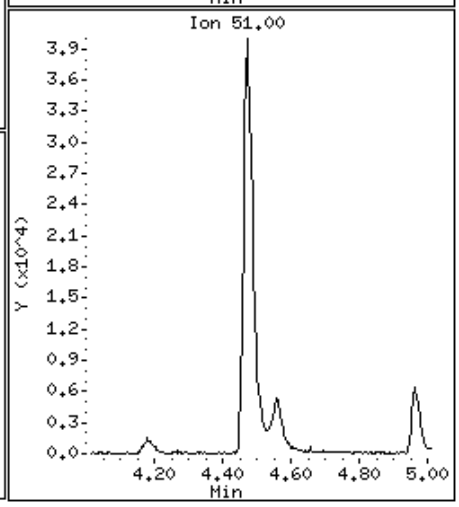



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061910.D



Date : 19-JUN-2023 13:47

Client ID: HS23060999-04

Instrument: voa6.i

Sample Info: HS23060999-04;HS23060999-04;;;

Purge Volume: 5.0

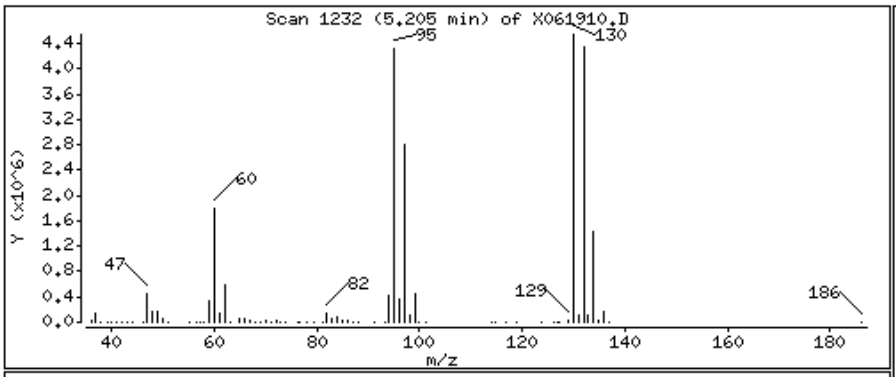
Operator: PC

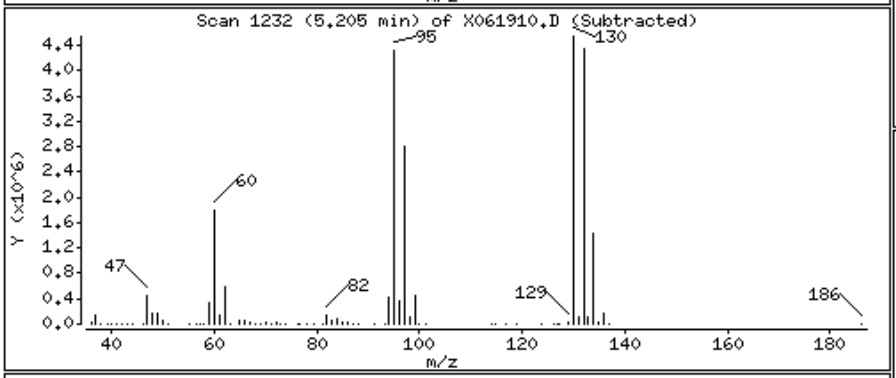
Column phase: DB624

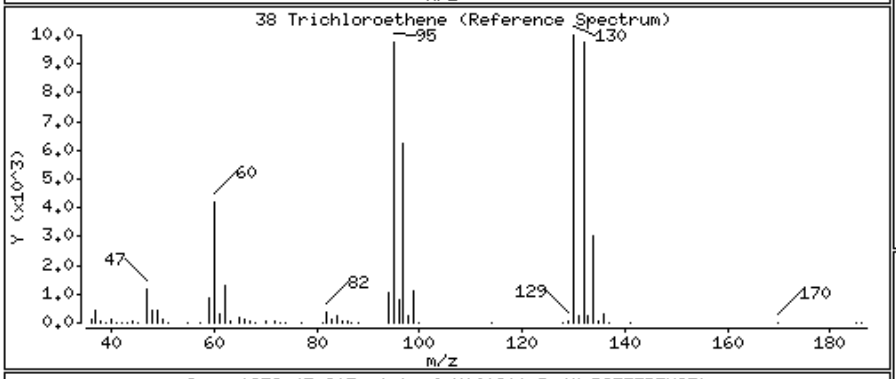
Column diameter: 0.18

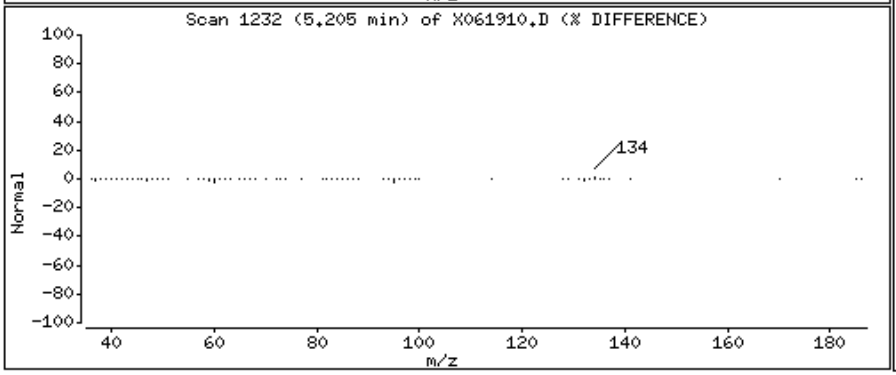
38 Trichloroethene

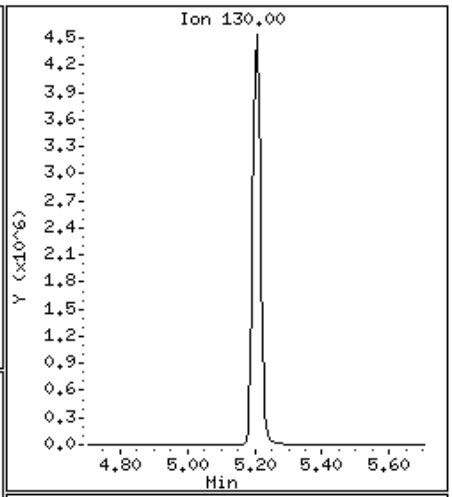
Concentration: 16322.77 ug/l

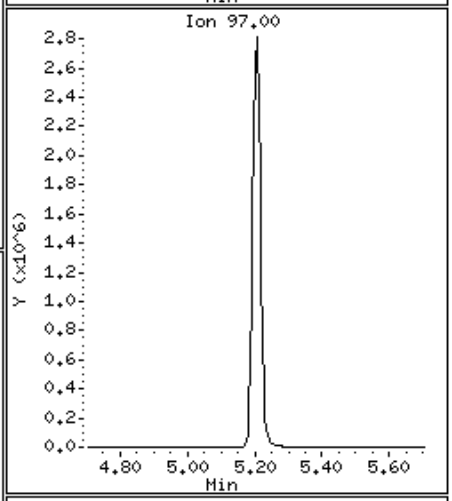


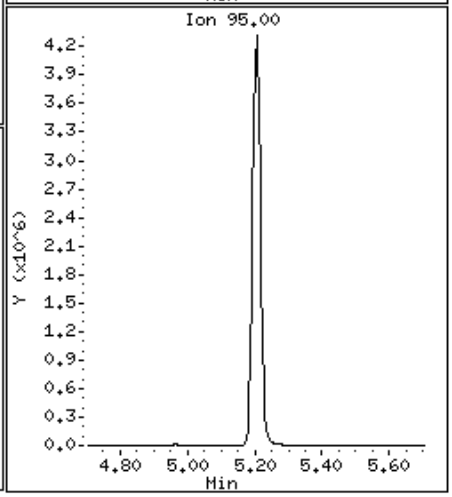



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061910.D
Inj Date  : 19-JUN-2023 13:47
InstruID  : voa6.i
LabSampID : HS23060999-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061911.D  Page 1
Report Date: 23-Jun-2023 17:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061911.D
Lab Smp Id: HS23060999-04  Client Smp ID: HS23060999-04
Inj Date  : 19-JUN-2023 14:08
Operator  : PC  Inst ID: voa6.i
Smp Info  : HS23060999-04;HS23060999-04;;;
Misc Info : V6;WATER;0;100;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\8260W.m
Meth Date : 23-Jun-2023 17:25 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 11
Dil Factor: 100.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 100.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * | 1 Pentafluorobenzene | 168 | 4.181 | 4.178 | (1.000) | 456285 | 50.0000 | |
| | 11 1,1-Dichloroethene | 96 | 1.917 | 1.917 | (0.459) | 7676 | 2.14878 | 214.87(a) |
| | 27 cis-1,2-Dichloroethene | 96 | 3.529 | 3.525 | (0.844) | 102200 | 20.7331 | 2073.31 |
| $ | 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.980) | 203696 | 49.9869 | 49.98 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 234562 | 53.3832 | 53.38 |
| * | 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 666186 | 50.0000 | |
| | 38 Trichloroethene | 130 | 5.205 | 5.205 | (1.048) | 692460 | 146.560 | 14656.02 |
| * | 47 Chlorobenzene-d5 | 117 | 7.668 | 7.668 | (1.000) | 592511 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.385 | 6.386 | (0.833) | 806099 | 53.8117 | 53.81 |
| $ | 69 4-Bromofluorobenzene | 95 | 8.687 | 8.687 | (1.133) | 281624 | 48.6694 | 48.66 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 | (1.000) | 298460 | 50.0000 | |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 102200 | 20.7331 | 2073.31 |

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01195720

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061911.D



Date : 19-JUN-2023 14:08

Client ID: HS23060999-04

Instrument: voa6.i

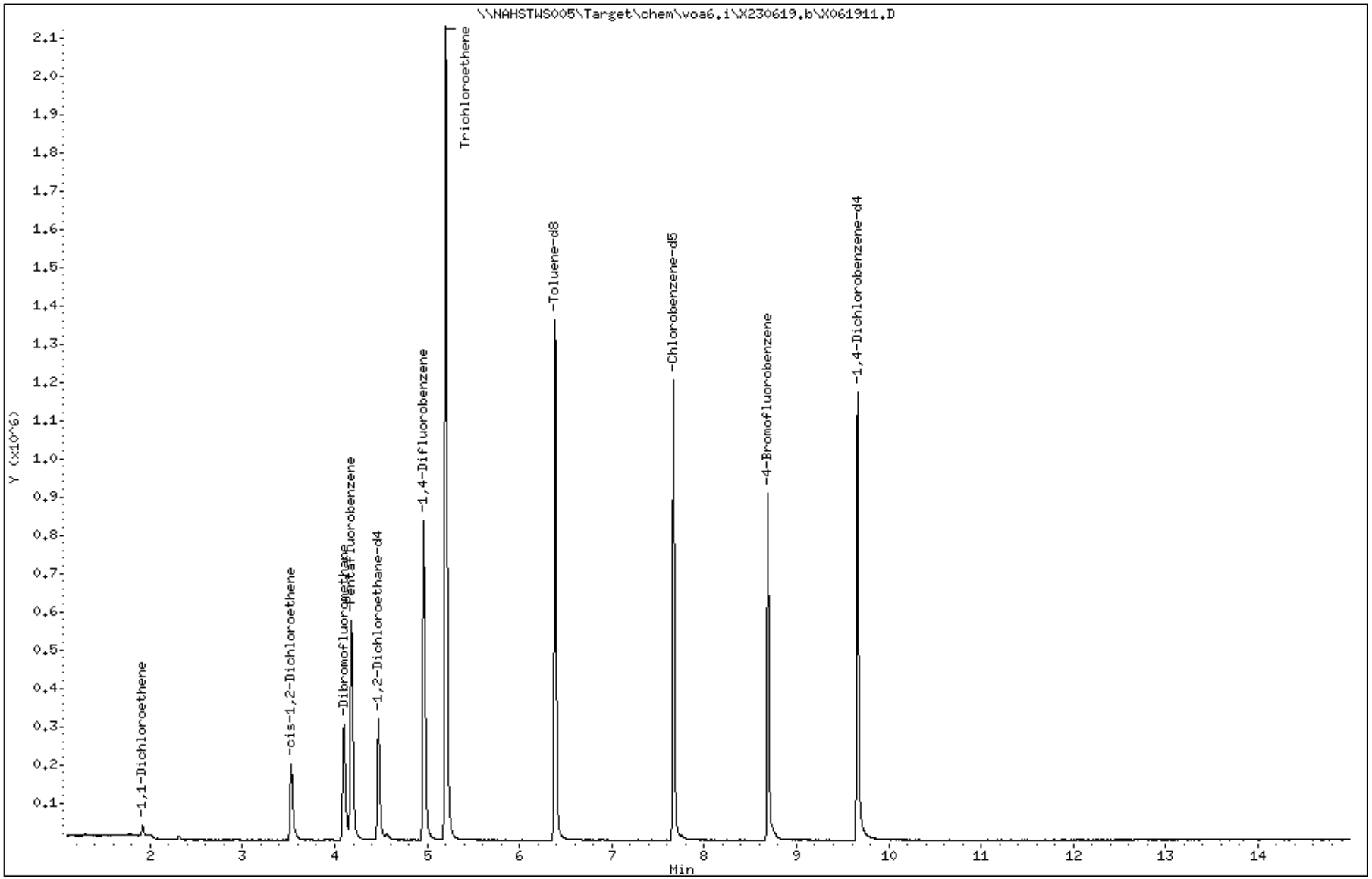
Sample Info: HS23060999-04;HS23060999-04;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061911.D Page 2

Date : 19-JUN-2023 14:08

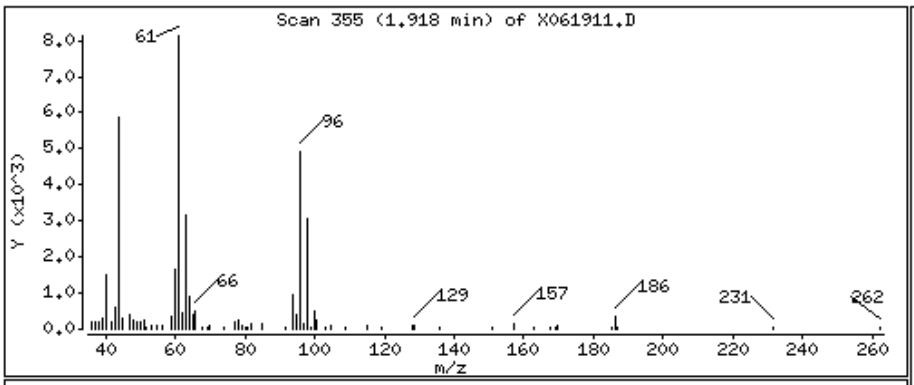
Client ID: HS23060999-04 Instrument: voa6.i

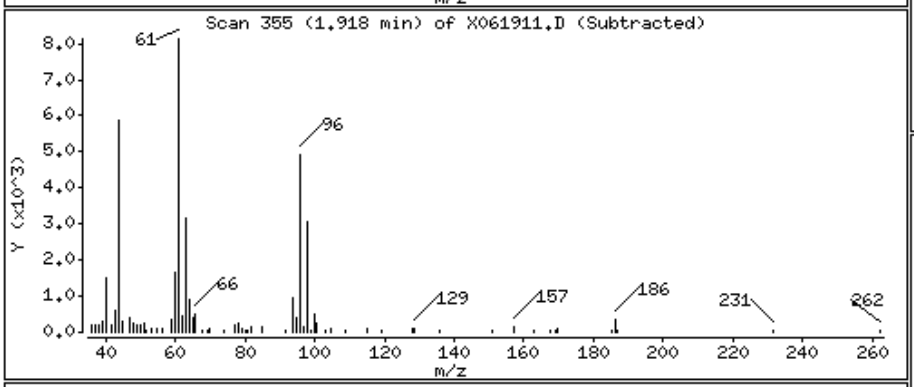
Sample Info: HS23060999-04;HS23060999-04;;;

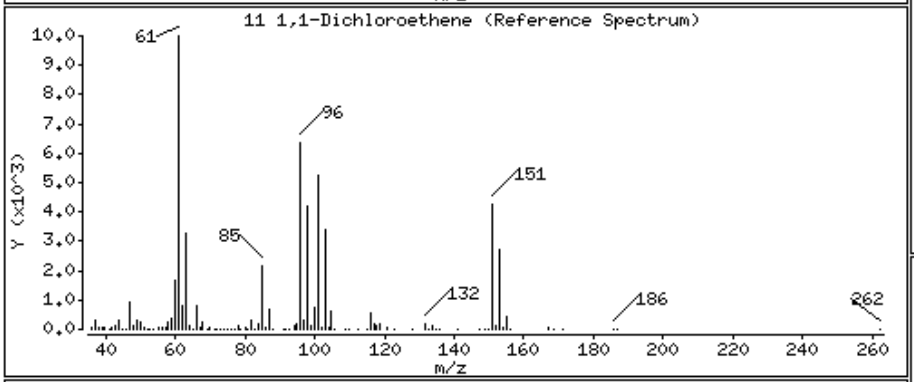
Purge Volume: 5.0 Operator: PC

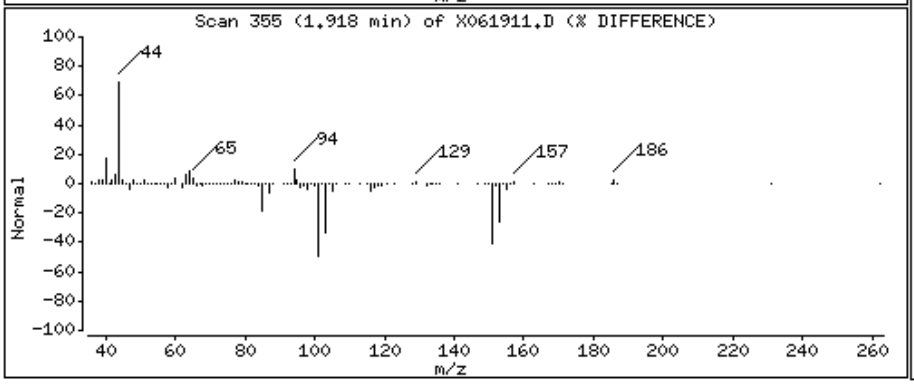
Column phase: DB624 Column diameter: 0.18

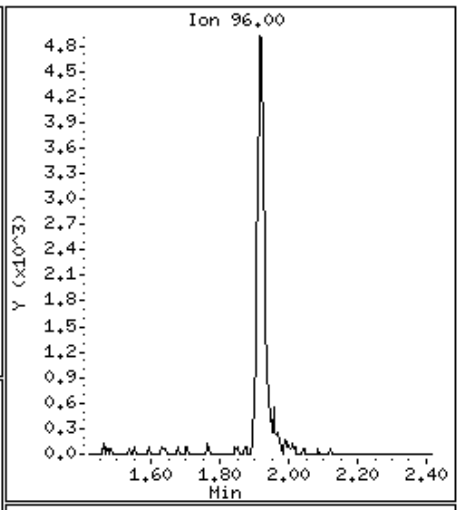
11 1,1-Dichloroethene Concentration: 214.87 ug/l

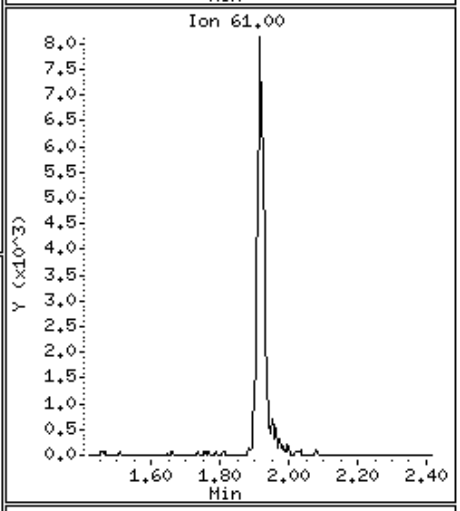


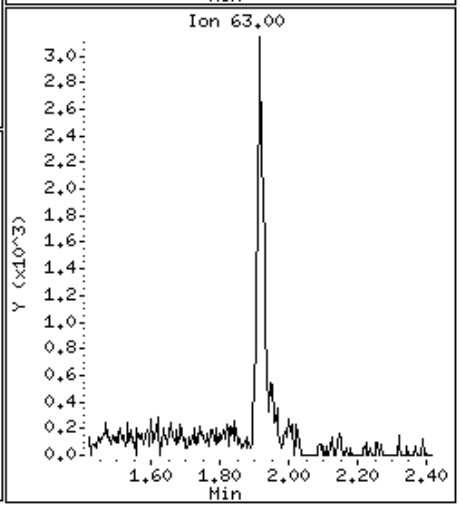



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061911.D Page 3

Date : 19-JUN-2023 14:08

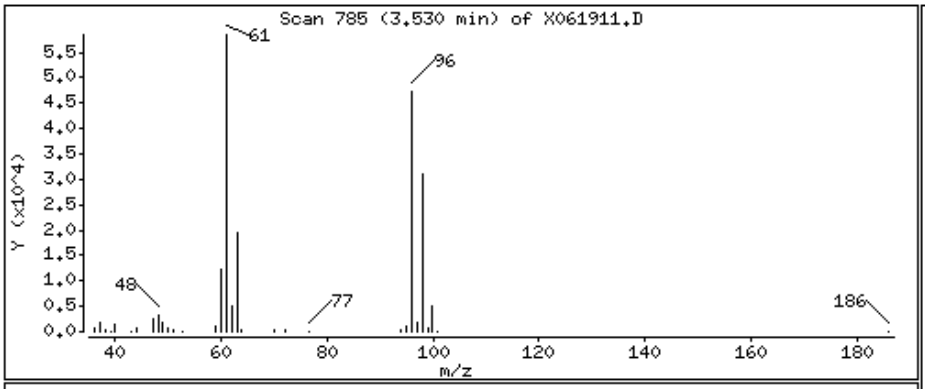
Client ID: HS23060999-04 Instrument: voa6.i

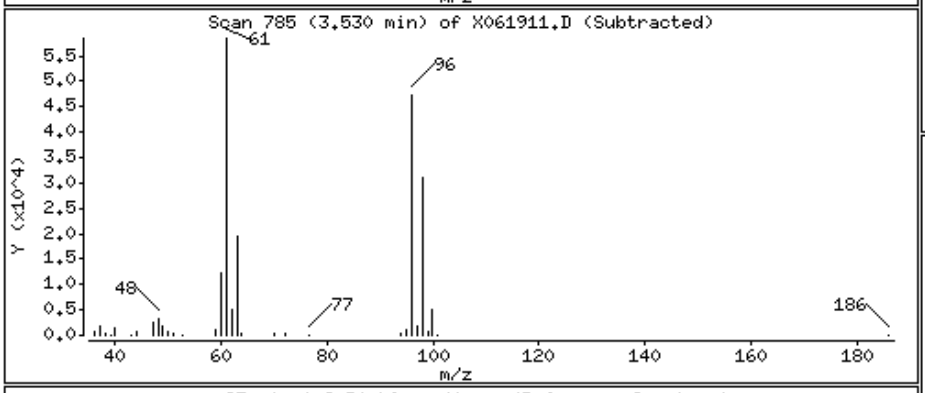
Sample Info: HS23060999-04;HS23060999-04;;;

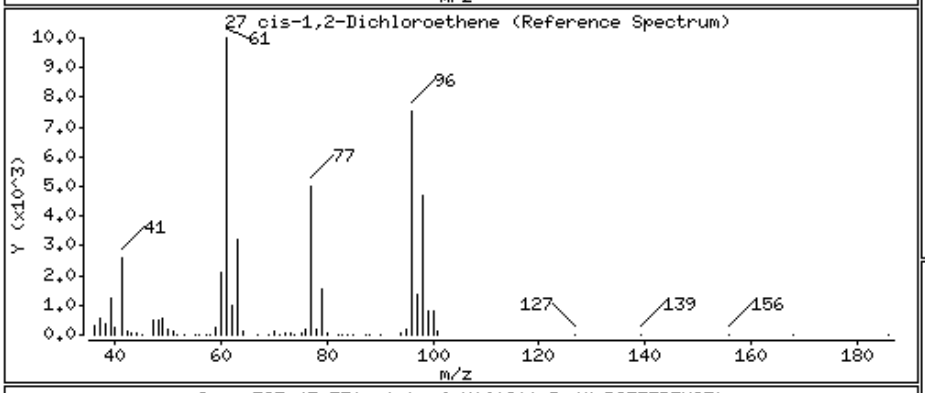
Purge Volume: 5.0 Operator: PC

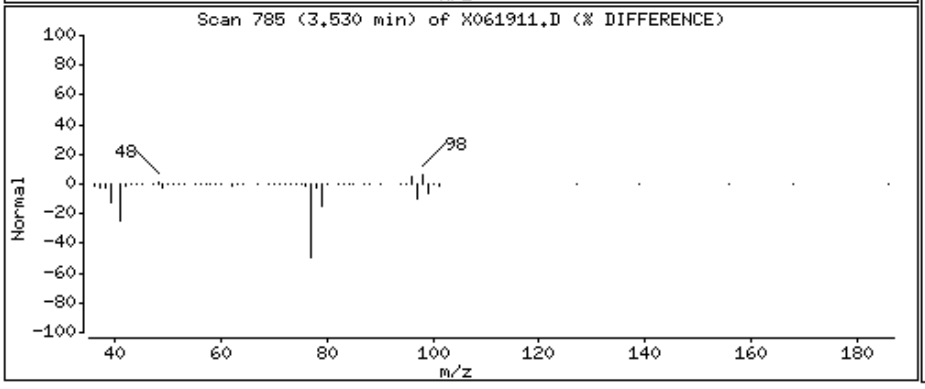
Column phase: DB624 Column diameter: 0.18

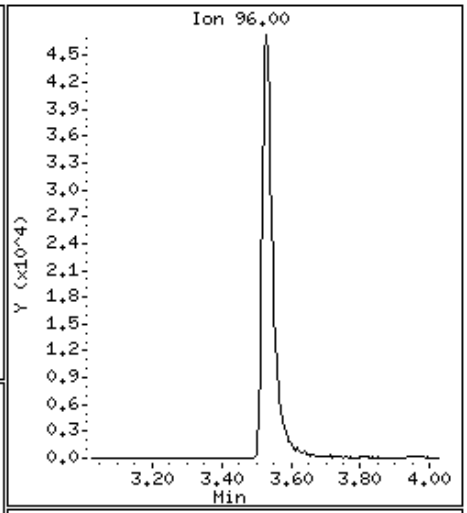
27 cis-1,2-Dichloroethene Concentration: 2073.31 ug/l

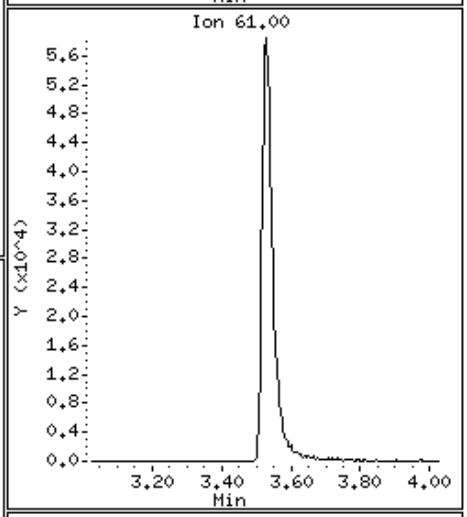


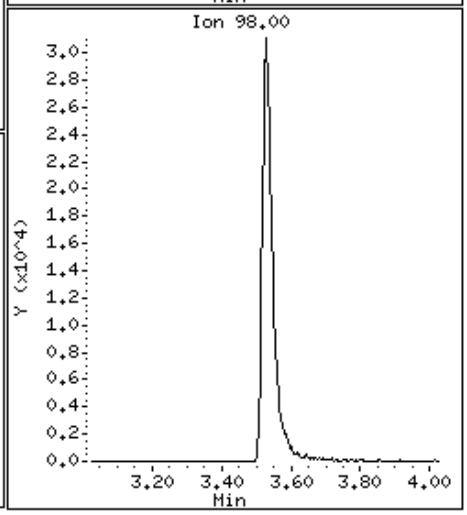



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061911.D Page 4

Date : 19-JUN-2023 14:08

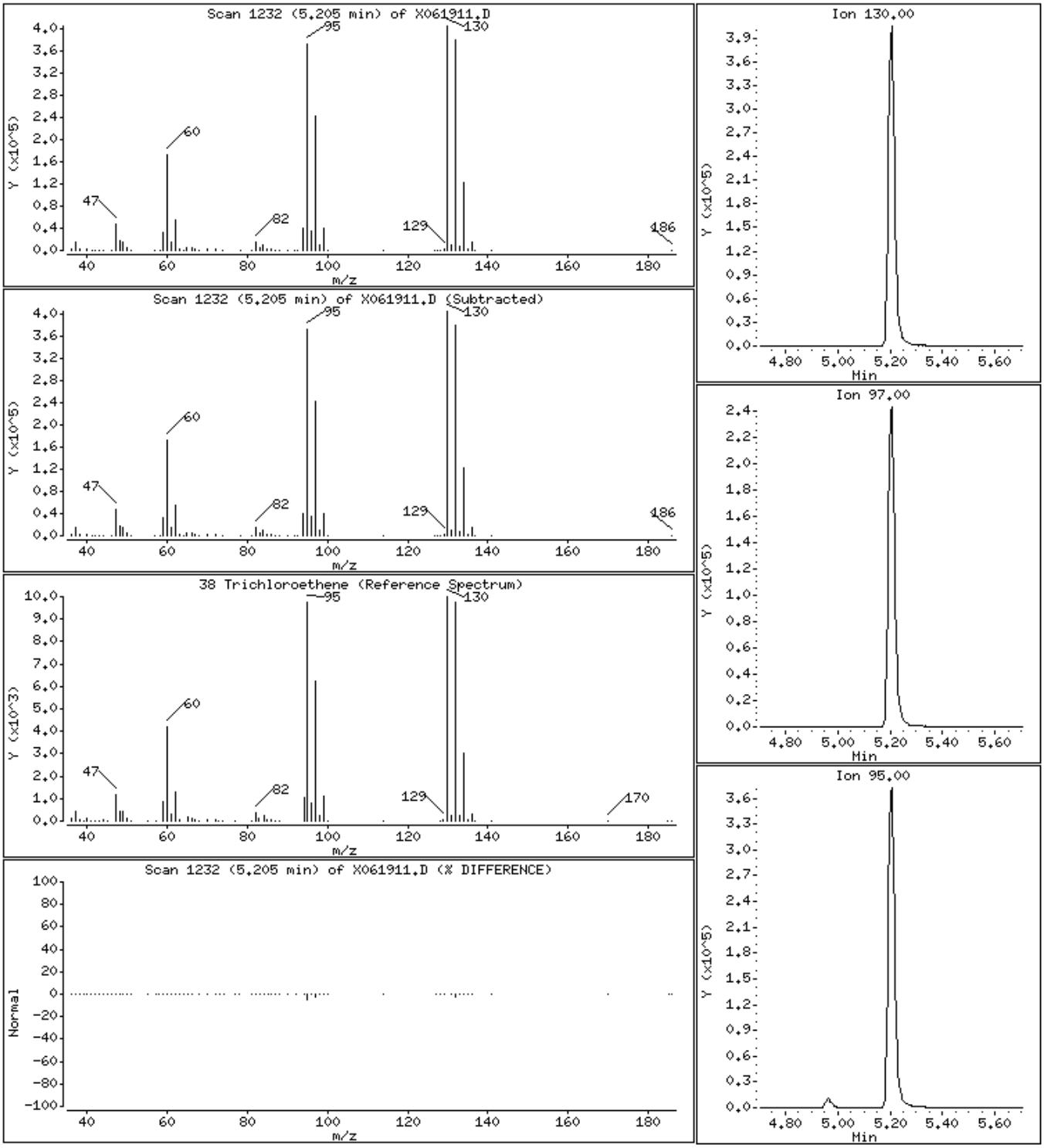
Client ID: HS23060999-04 Instrument: voa6.i

Sample Info: HS23060999-04;HS23060999-04;;;

Purge Volume: 5.0 Operator: PC

Column phase: DB624 Column diameter: 0.18

38 Trichloroethene Concentration: 14656.02 ug/l



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061911.D
Inj Date  : 19-JUN-2023 14:08
InstruID  : voa6.i
LabSampID : HS23060999-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061912.D  Page 1
Report Date: 23-Jun-2023 17:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061912.D
Lab Smp Id: HS23060999-03  Client Smp ID: HS23060999-03
Inj Date  : 19-JUN-2023 14:29
Operator  : PC  Inst ID: voa6.i
Smp Info  : HS23060999-03;HS23060999-03;;;
Misc Info : V6;WATER;0;25;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\8260W.m
Meth Date : 23-Jun-2023 17:25 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 12
Dil Factor: 25.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 25.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.181 | 4.178 | (1.000) | 447571 | 50.0000 | |
| 11 1,1-Dichloroethene | 96 | 1.921 | 1.917 | (0.459) | 11887 | 3.39237 | 84.80(a) |
| 22 1,1-Dichloroethane | 63 | 2.929 | 2.922 | (0.701) | 3917 | 0.51858 | 12.96(a) |
| 27 cis-1,2-Dichloroethene | 96 | 3.525 | 3.525 | (0.843) | 185147 | 38.2917 | 957.29 |
| 28 Chloroform | 83 | 3.915 | 3.904 | (0.936) | 5051 | 0.62129 | 15.53(a) |
| $ 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.980) | 205209 | 51.3481 | 51.34 |
| 33 1,2-Dichloroethane | 62 | 4.567 | 4.552 | (0.920) | 6134 | 1.10492 | 27.62(a) |
| $ 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 229774 | 53.3105 | 53.31 |
| * 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 661183 | 50.0000 | |
| 38 Trichloroethene | 130 | 5.205 | 5.205 | (1.048) | 1341473 | 286.073 | 7151.83(A) |
| * 47 Chlorobenzene-d5 | 117 | 7.667 | 7.668 | (1.000) | 586649 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.385 | 6.386 | (0.833) | 796403 | 53.6957 | 53.69 |
| $ 69 4-Bromofluorobenzene | 95 | 8.687 | 8.687 | (1.133) | 279122 | 48.7195 | 48.71 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 | (1.000) | 305744 | 50.0000 | |
| M 94 1,2-Dichloroethylene (total) | 96 | | | | 185147 | 38.2917 | 957.29 |

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.

01195727

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061912.D



Date : 19-JUN-2023 14:29

Client ID: HS23060999-03

Instrument: voa6.i

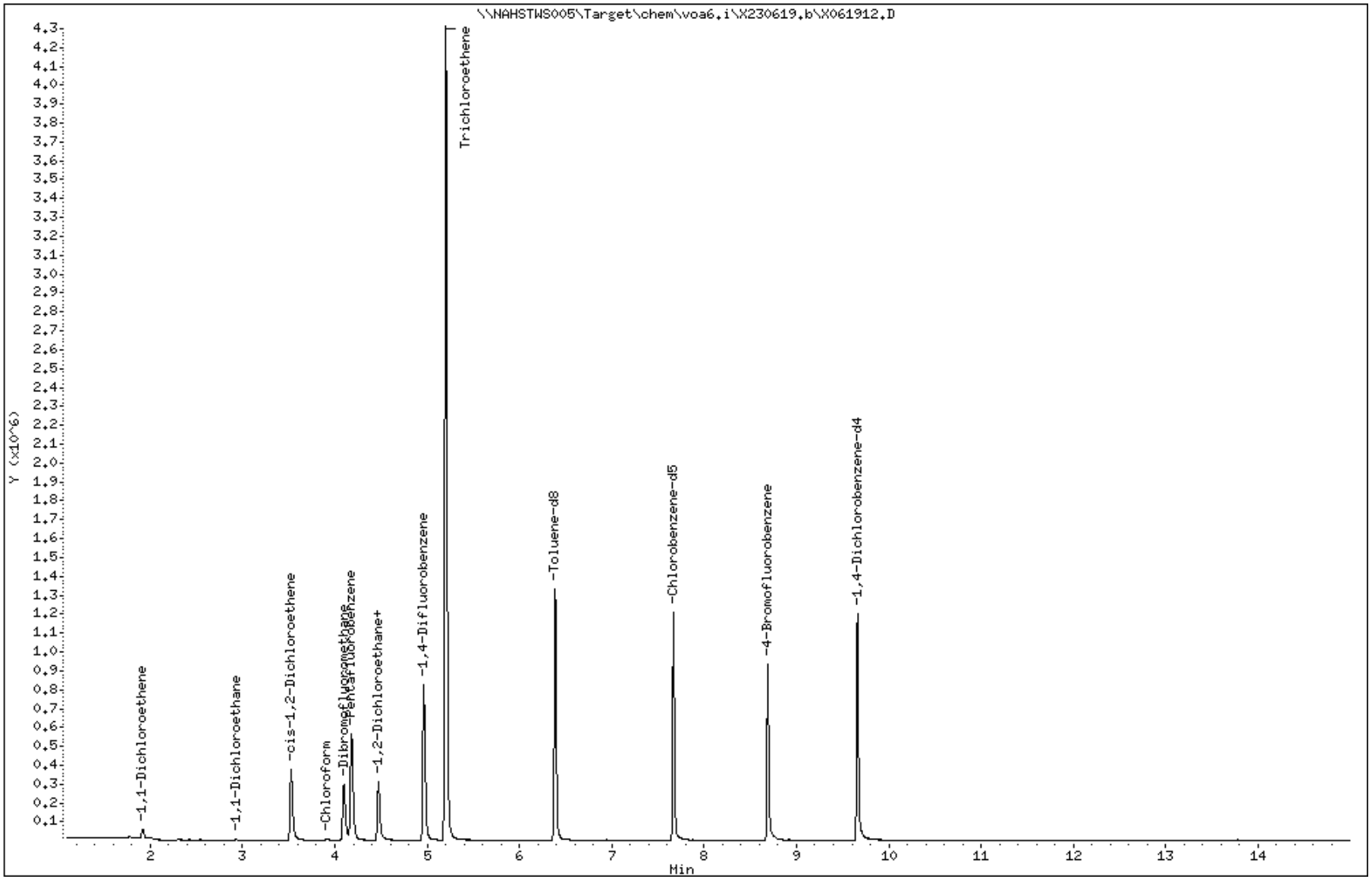
Sample Info: HS23060999-03;HS23060999-03;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061912.D

Date : 19-JUN-2023 14:29

Client ID: HS23060999-03

Instrument: voa6.i

Sample Info: HS23060999-03;HS23060999-03;;;

Purge Volume: 5.0

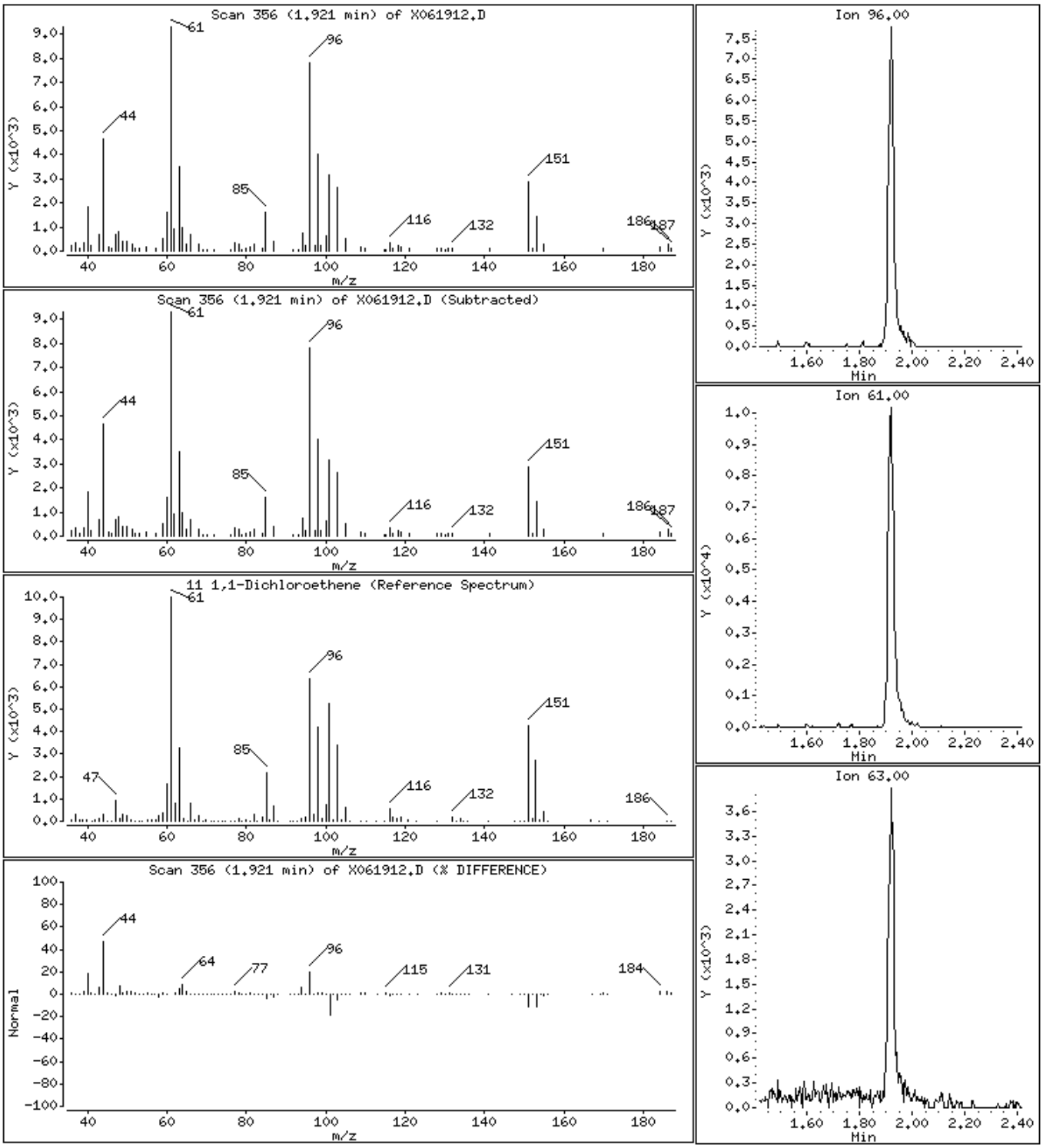
Operator: PC

Column phase: DB624

Column diameter: 0.18

11 1,1-Dichloroethene

Concentration: 84.80 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061912.D Page 3

Date : 19-JUN-2023 14:29

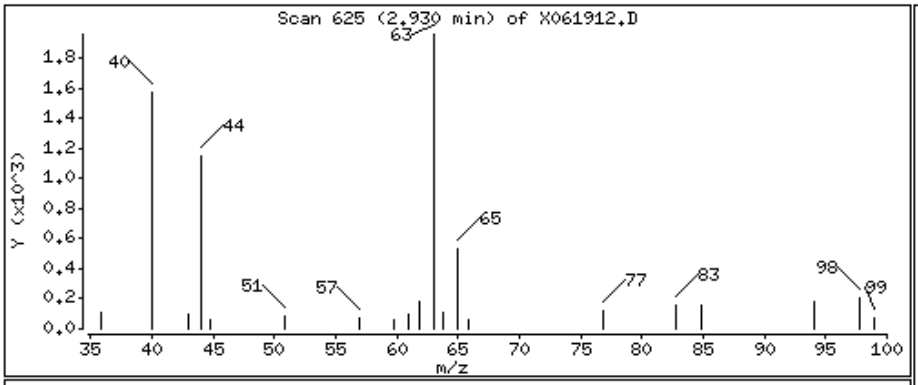
Client ID: HS23060999-03 Instrument: voa6.i

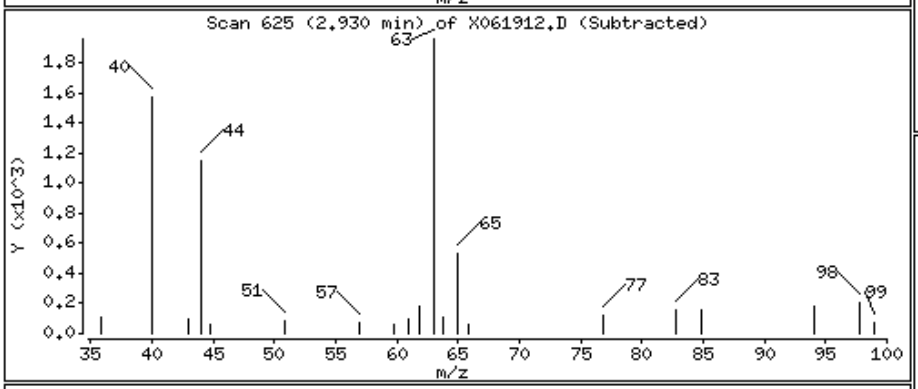
Sample Info: HS23060999-03;HS23060999-03;;;

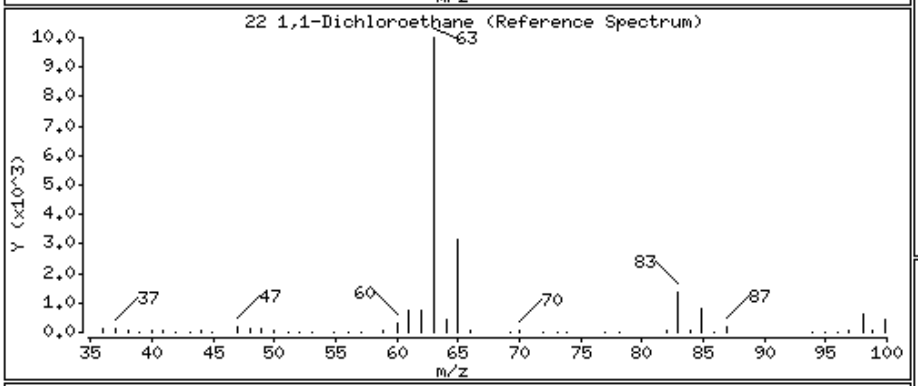
Purge Volume: 5.0 Operator: PC

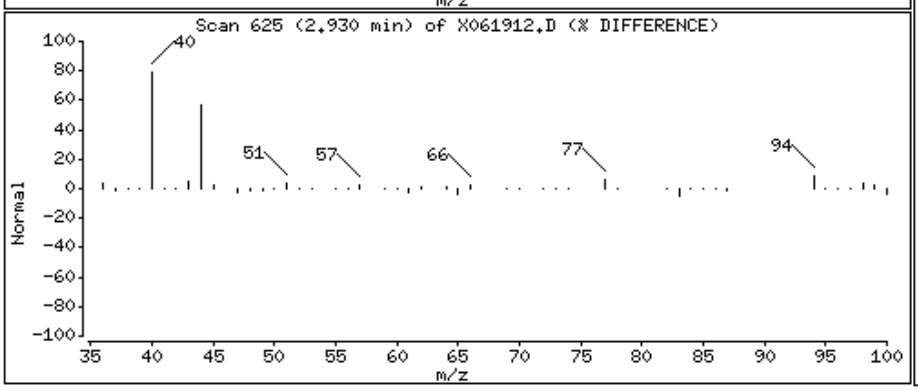
Column phase: DB624 Column diameter: 0.18

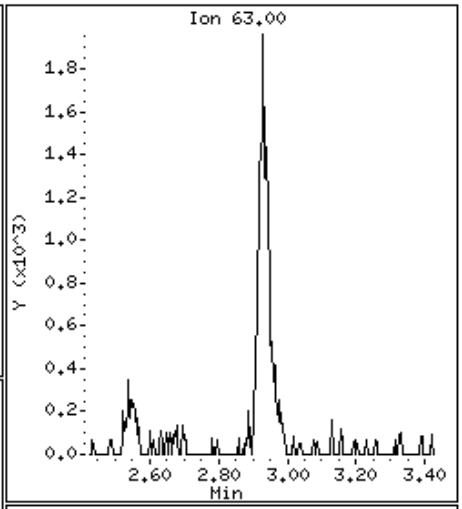
22 1,1-Dichloroethane Concentration: 12.96 ug/l

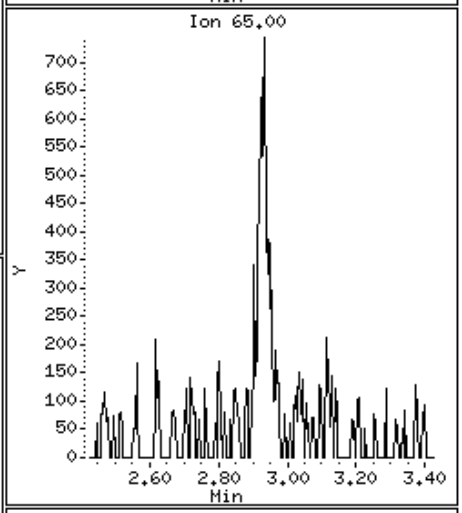


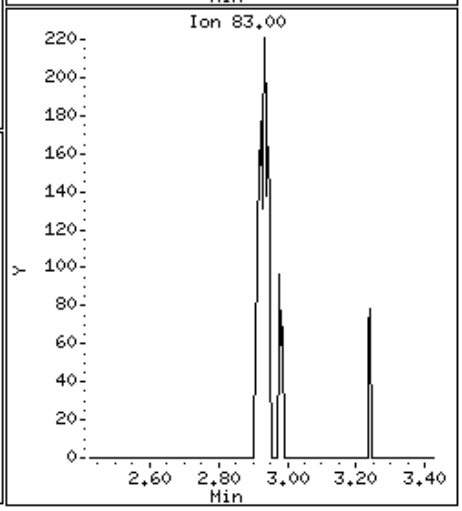



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061912.D 

Date : 19-JUN-2023 14:29

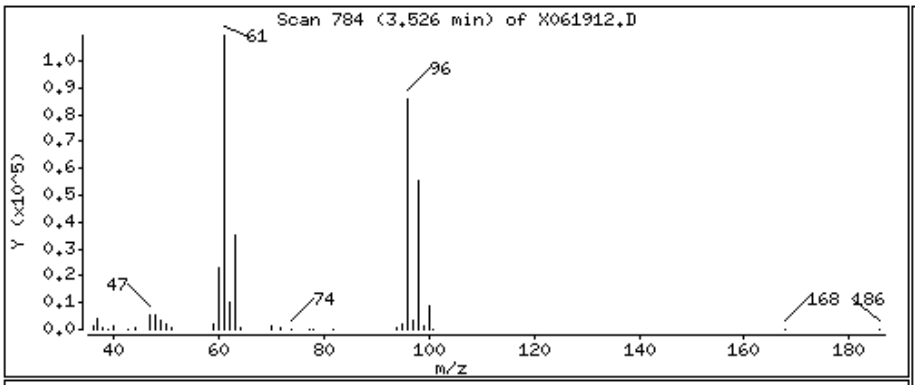
Client ID: HS23060999-03 Instrument: voa6.i

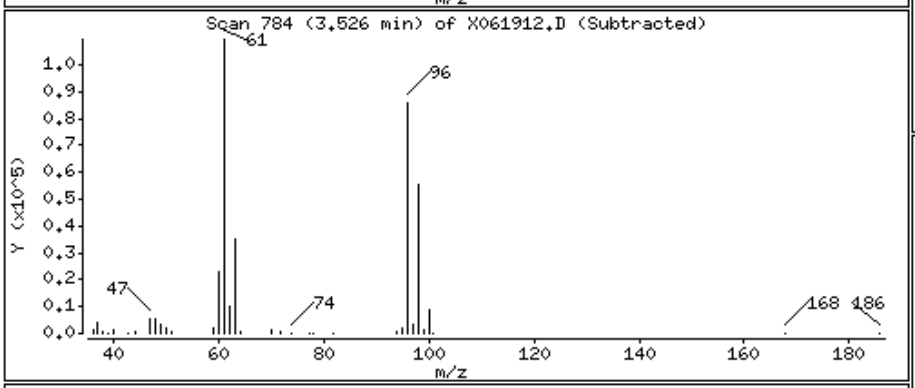
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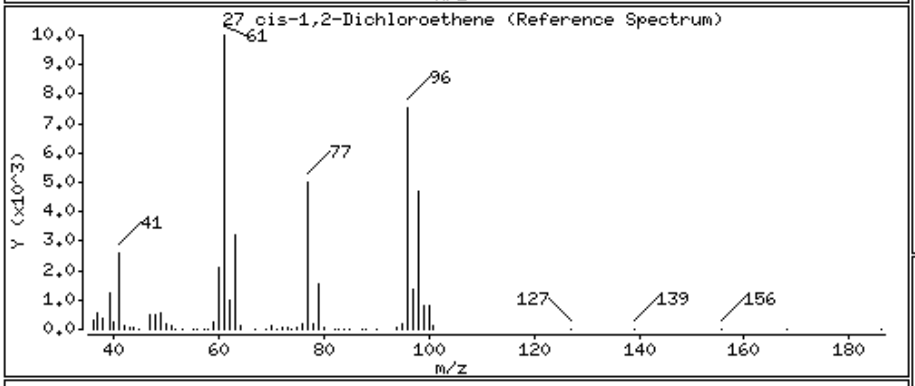
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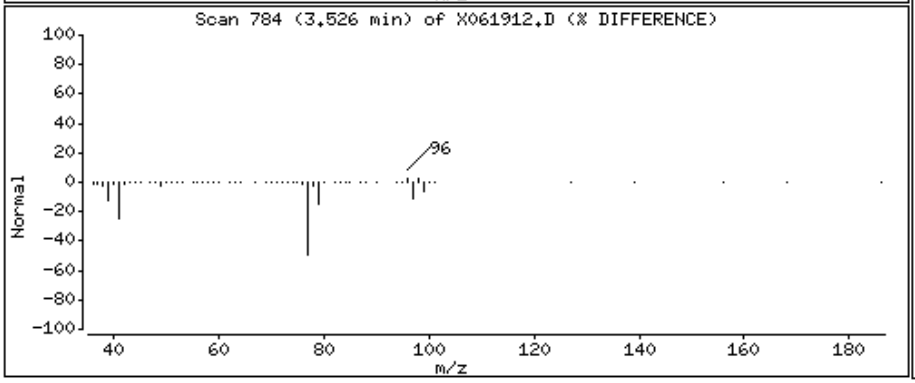
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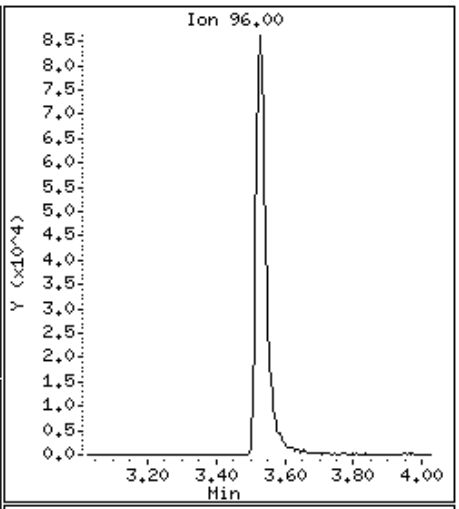
27 cis-1,2-Dichloroethene Concentration: 957.29 ug/l

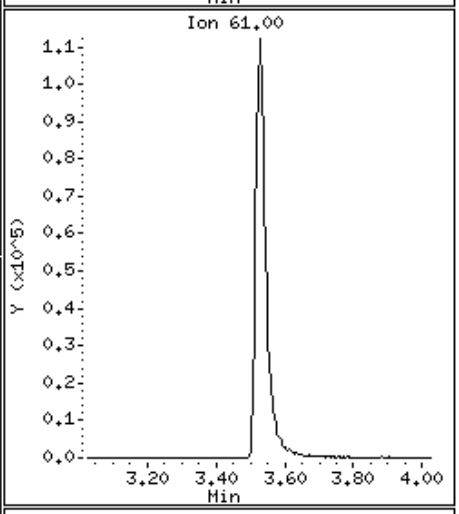


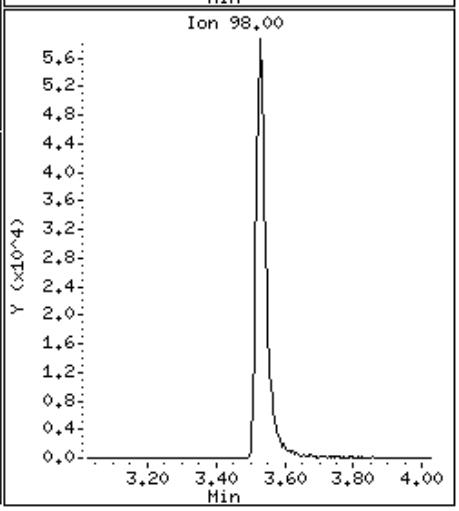



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Date : 19-JUN-2023 14:29

Client ID: HS23060999-03

Instrument: voa6.i

Sample Info: HS23060999-03;HS23060999-03;;;

Purge Volume: 5.0

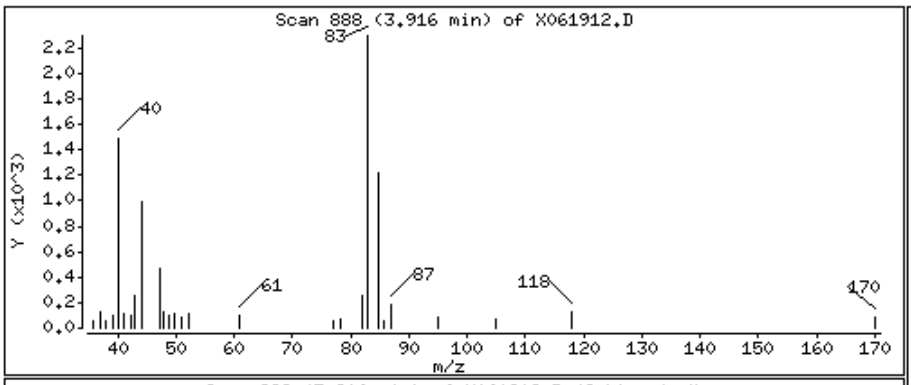
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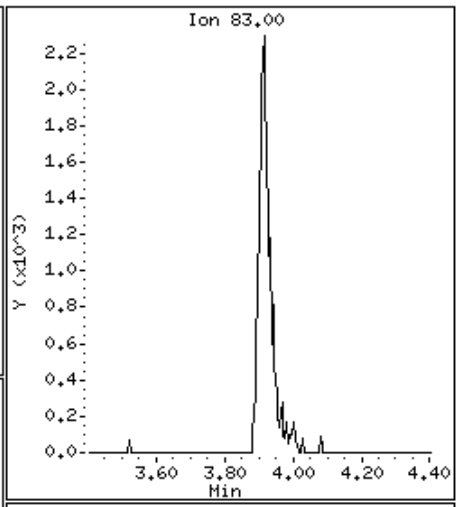
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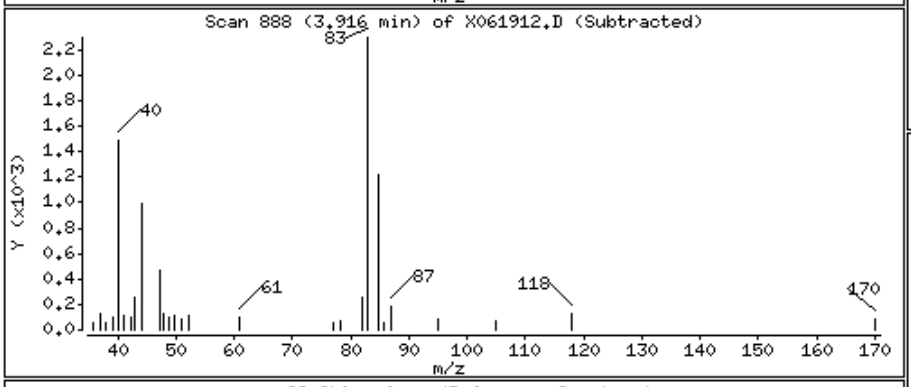
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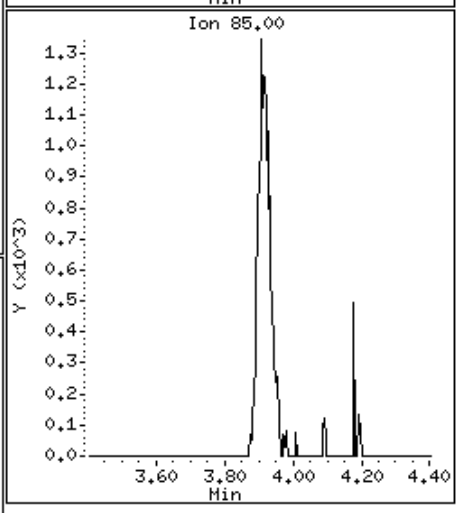
28 Chloroform

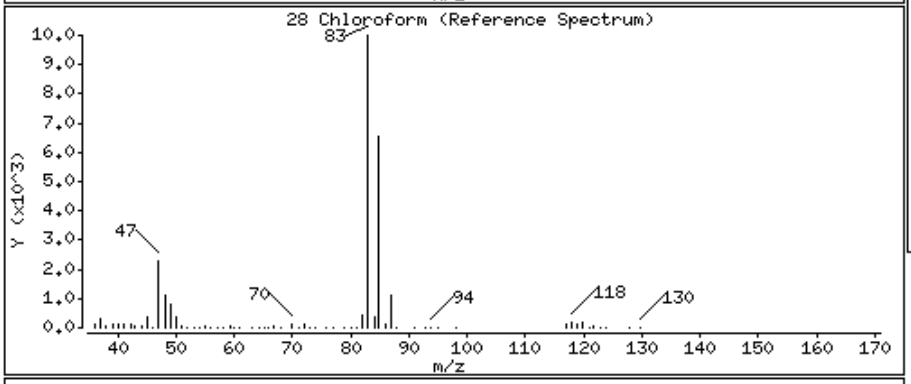
Concentration: 15.53 ug/l

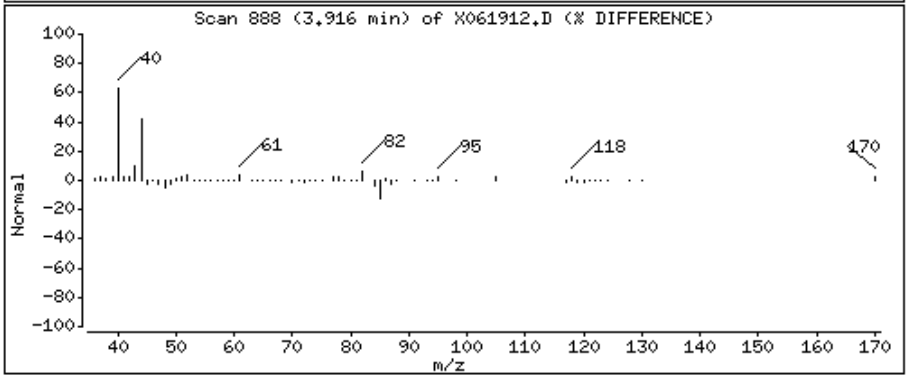


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Date : 19-JUN-2023 14:29

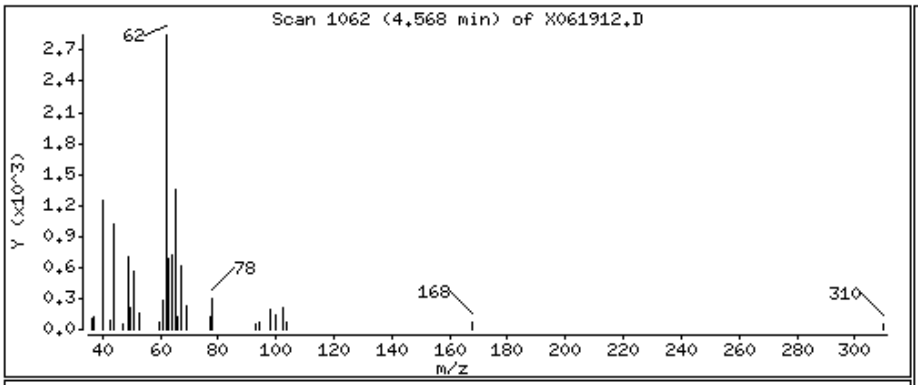
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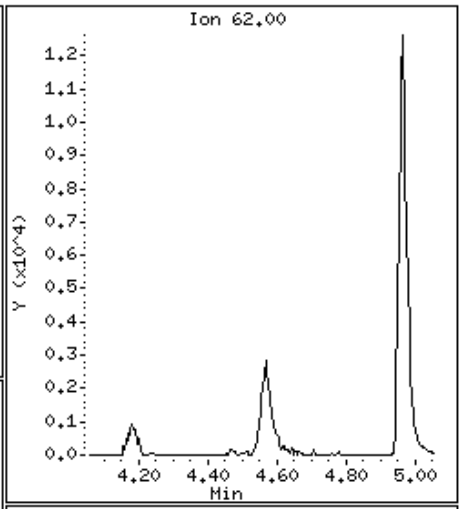
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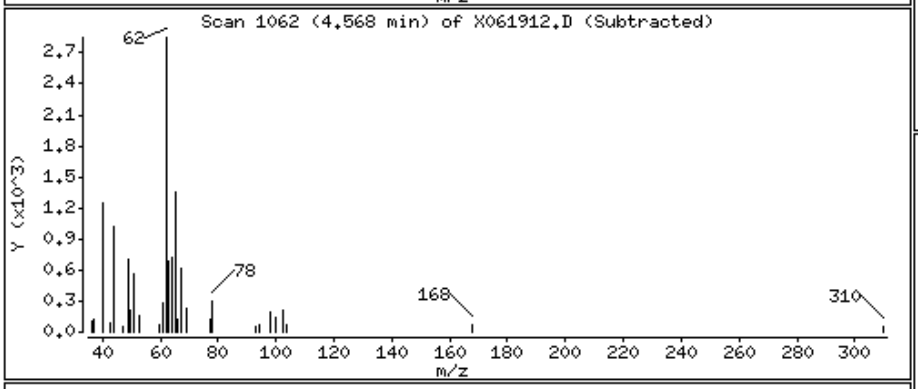
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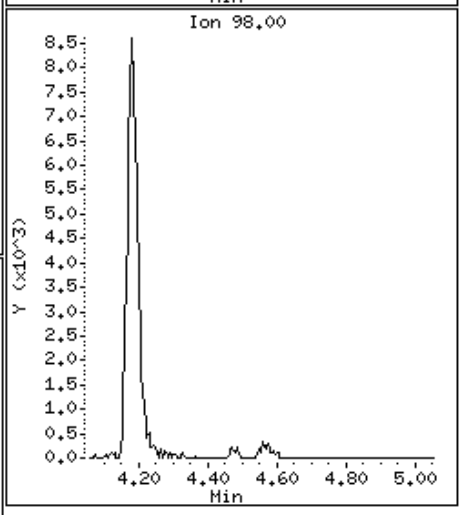
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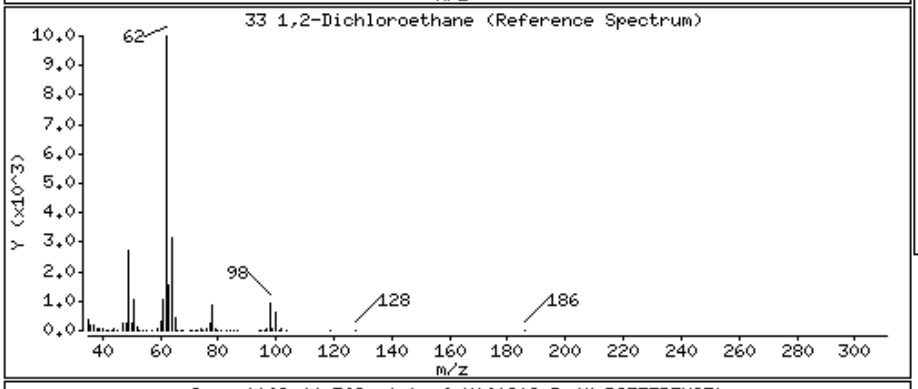
33 1,2-Dichloroethane Concentration: 27.62 ug/l

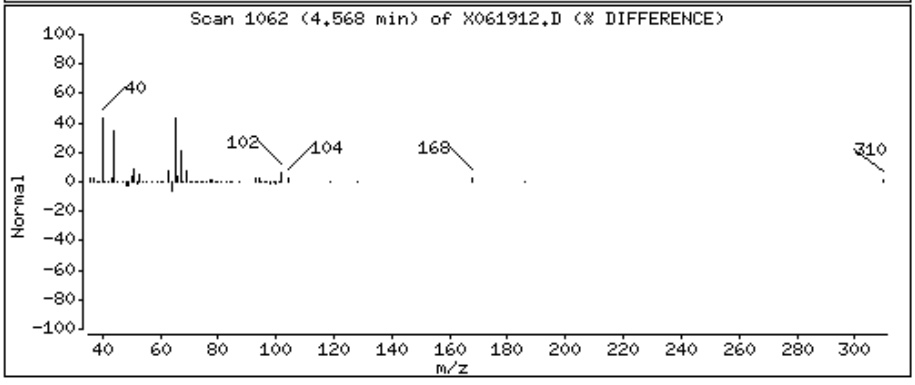


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Date : 19-JUN-2023 14:29

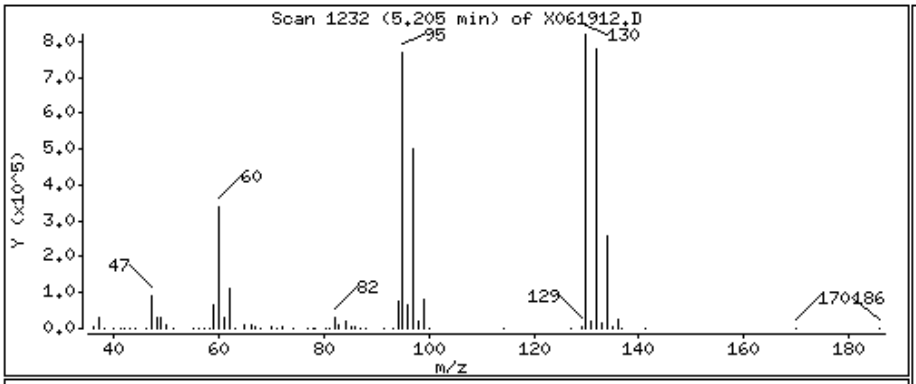
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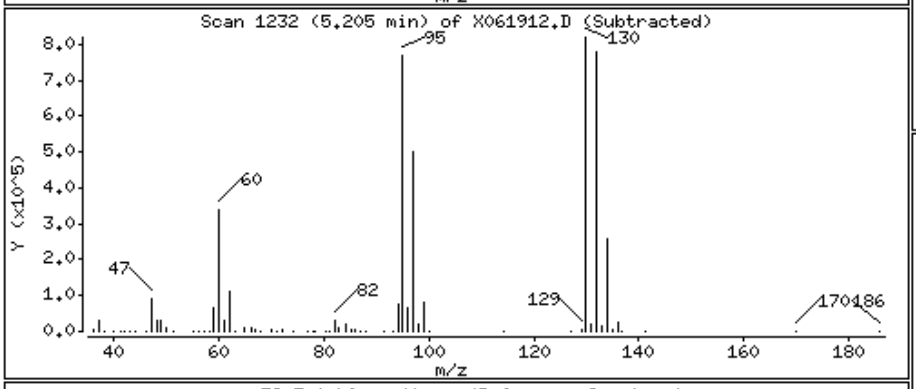
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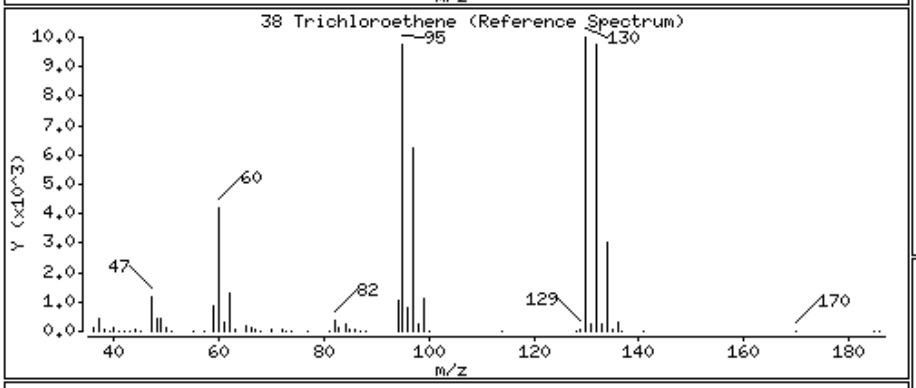
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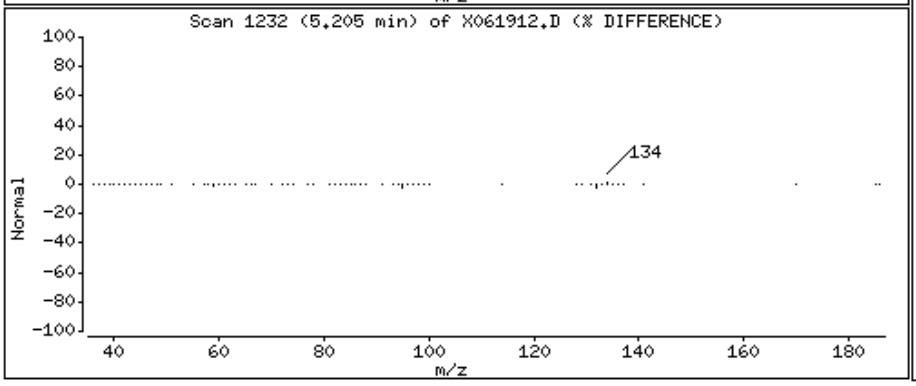
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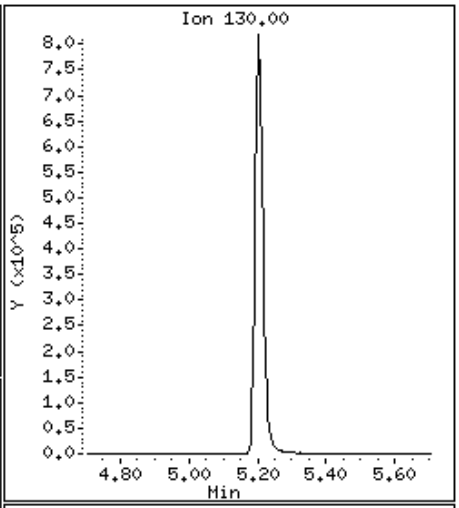
38 Trichloroethene Concentration: 7151.83 ug/l

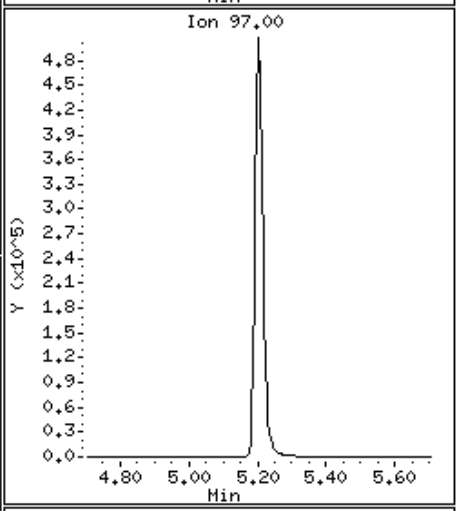


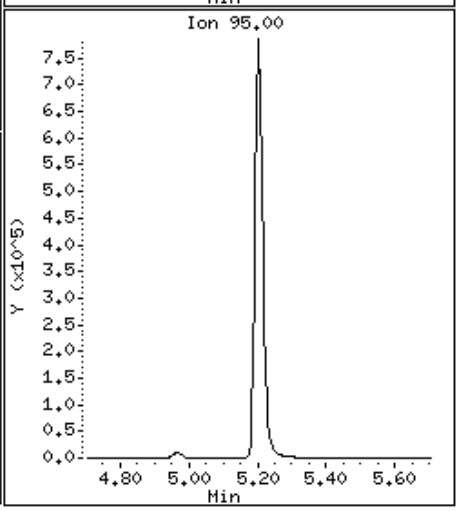



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Inj Date  : 19-JUN-2023 14:29
InstruID  : voa6.i
LabSampID : HS23060999-03

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061913.D  Page 1
Report Date: 23-Jun-2023 17:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061913.D
Lab Smp Id: HS23060999-07MS  Client Smp ID: HS23060999-07MS
Inj Date  : 19-JUN-2023 14:50
Operator  : PC  Inst ID: voa6.i
Smp Info  : HS23060999-07MS;HS23060999-07MS;3;;MS
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\8260W.m
Meth Date : 23-Jun-2023 17:25 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 13  QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.181 | 4.178 | (1.000) | 456917 | 50.0000 | |
| 135 1,4-Dioxane | 88 | 5.602 | 5.598 | (1.340) | 22036 | 397.956 | 397.95(a) |
| 140 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.279) | 95688 | 25.2710 | 25.27 |
| 25 Methacrylonitrile | 41 | 3.825 | 3.825 | (0.915) | 81021 | 21.4905 | 21.49 |
| 12 Isobutyl Alcohol | 43 | 4.676 | 4.672 | (1.118) | 250708 | 420.812 | 420.81 |
| 13 Acetonitrile | 39 | 2.202 | 2.198 | (0.527) | 112133 | 253.019 | 253.01 |
| 14 Allyl Chloride | 41 | 2.202 | 2.198 | (0.527) | 216569 | 21.6132 | 21.61 |
| 4 Propionitrile | 54 | 3.653 | 3.649 | (0.874) | 115120 | 208.329 | 208.32(a) |
| 72 trans-1,4-Dichloro-2-butene | 53 | 8.890 | 8.886 | (1.159) | 33813 | 22.2312 | 22.23 |
| 194 Acetaldehyde | 44 | 1.212 | 1.212 | (0.290) | 24420 | 99.8592 | 99.85(M) |
| 23 Chloroprene | 53 | 1.775 | 1.775 | (0.424) | 28702 | 18.8994 | 18.89(M) |
| 130 Ethyl Acetate | 43 | 3.660 | 3.653 | (0.875) | 87000 | 18.6793 | 18.67 |
| 40 Methyl Methacrylate | 41 | 5.606 | 5.606 | (1.341) | 76894 | 21.7388 | 21.73 |
| 49 Ethyl Methacrylate | 69 | 6.708 | 6.708 | (1.351) | 89663 | 18.6447 | 18.64 |
| 131 Methyl Acrylate | 55 | 3.694 | 3.687 | (0.883) | 83880 | 22.6664 | 22.66 |
| 156 Diisopropyl ether | 45 | 3.000 | 3.001 | (0.718) | 287026 | 21.2995 | 21.29 |
| 164 Dicyclopentadiene | 66 | 9.680 | 9.681 | (1.002) | 528862 | 26.7718 | 26.77 |
| 166 1,2,3-Trimethylbenzene | 105 | 9.729 | 9.729 | (1.007) | 427715 | 25.4766 | 25.47 |
| 2 Dichlorodifluoromethane | 85 | 0.976 | 0.976 | (0.234) | 88341 | 22.6344 | 22.63 |
| 3 Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 116844 | 24.7215 | 24.72 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5 Vinyl Chloride | 62 | 1.149 | 1.145 (0.275) | 122130 | 25.4511 | 25.45 |
| 6 Bromomethane | 94 | 1.344 | 1.344 (0.321) | 65680 | 23.8449 | 23.84 |

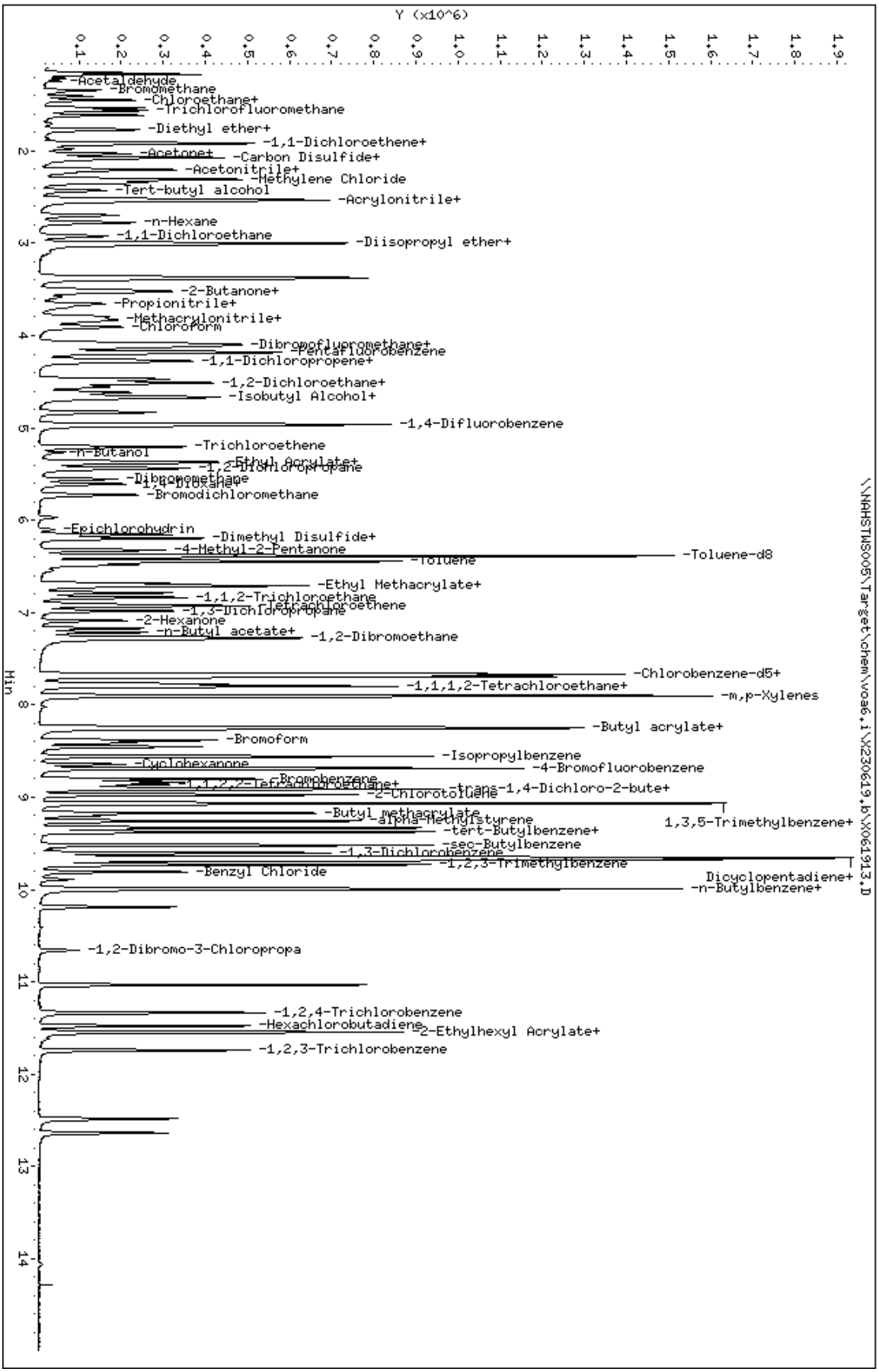
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 7 Chloroethane | 64 | 1.407 | 1.407 | (0.337) | 73794 | 25.1580 | 25.15 |
| | 8 Trichlorofluoromethane | 101 | 1.565 | 1.561 | (0.374) | 149574 | 26.2301 | 26.23 |
| | 9 Acrolein | 56 | 1.452 | 1.449 | (0.347) | 16035 | 56.5562 | 56.55 |
| | 10 Acetone | 43 | 1.977 | 1.973 | (0.473) | 61416 | 51.4166 | 51.41 |
| | 11 1,1-Dichloroethene | 96 | 1.917 | 1.917 | (0.459) | 88185 | 24.6519 | 24.65 |
| | 15 Iodomethane | 142 | 2.030 | 2.030 | (0.485) | 208537 | 36.9182 | 36.91 |
| | 16 Acrylonitrile | 53 | 2.539 | 2.532 | (0.607) | 61232 | 42.2189 | 42.21 |
| | 17 Methylene Chloride | 84 | 2.307 | 2.303 | (0.552) | 95908 | 18.9808 | 18.98 |
| | 18 Methyl tert-butyl ether | 73 | 2.536 | 2.536 | (0.606) | 263000 | 21.0648 | 21.06 |
| | 19 Carbon Disulfide | 76 | 2.071 | 2.071 | (0.495) | 499020 | 39.1775 | 39.17 |
| | 20 trans-1,2-Dichloroethene | 96 | 2.532 | 2.528 | (0.606) | 91583 | 21.3956 | 21.39 |
| | 21 Vinyl Acetate | 43 | 3.000 | 2.997 | (0.718) | 486890 | 42.6173 | 42.61 |
| | 22 1,1-Dichloroethane | 63 | 2.922 | 2.922 | (0.699) | 159752 | 20.7171 | 20.71 |
| | 24 2-Butanone | 43 | 3.585 | 3.578 | (0.857) | 53787 | 35.7700 | 35.76 |
| | 26 2,2-Dichloropropane | 77 | 3.506 | 3.507 | (0.839) | 146733 | 24.1111 | 24.11 |
| | 27 cis-1,2-Dichloroethene | 96 | 3.525 | 3.525 | (0.843) | 101888 | 20.6412 | 20.64 |
| | 28 Chloroform | 83 | 3.904 | 3.904 | (0.934) | 171467 | 20.6598 | 20.65 |
| | 29 Bromochloromethane | 128 | 3.795 | 3.791 | (0.908) | 52859 | 20.0958 | 20.09 |
| $ | 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.980) | 205530 | 50.3699 | 50.36 |
| | 31 1,1,1-Trichloroethane | 97 | 4.080 | 4.080 | (0.976) | 152045 | 22.6660 | 22.66 |
| | 32 1,1-Dichloropropene | 75 | 4.282 | 4.279 | (0.863) | 132299 | 23.5322 | 23.53 |
| | 33 1,2-Dichloroethane | 62 | 4.556 | 4.552 | (0.918) | 131154 | 23.2813 | 23.28 |
| | 34 Carbon Tetrachloride | 117 | 4.264 | 4.264 | (0.859) | 135252 | 25.0148 | 25.01 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 228498 | 51.9078 | 51.90 |
| * | 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 670941 | 50.0000 | |
| | 37 Benzene | 78 | 4.511 | 4.511 | (0.909) | 375181 | 21.7391 | 21.73 |
| | 38 Trichloroethene | 130 | 5.205 | 5.205 | (1.048) | 111239 | 23.3771 | 23.37 |
| | 39 Bromodichloromethane | 83 | 5.726 | 5.722 | (1.153) | 131199 | 21.4907 | 21.49 |
| | 42 1,2-Dichloropropane | 63 | 5.433 | 5.433 | (1.094) | 97375 | 21.4955 | 21.49 |
| | 44 Dibromomethane | 93 | 5.553 | 5.550 | (1.119) | 62596 | 22.0121 | 22.01 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.325 | 6.322 | (0.825) | 165516 | 41.0030 | 41.00 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.153 | 6.153 | (1.239) | 161088 | 21.4006 | 21.40 |
| * | 47 Chlorobenzene-d5 | 117 | 7.667 | 7.668 | (1.000) | 624897 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.385 | 6.386 | (0.833) | 828094 | 52.4151 | 52.41 |
| | 50 Toluene | 91 | 6.445 | 6.442 | (0.841) | 435355 | 23.7311 | 23.73 |
| | 51 trans-1,3-Dichloropropene | 75 | 6.682 | 6.678 | (1.346) | 136546 | 21.6812 | 21.68 |
| | 52 2-Hexanone | 43 | 7.086 | 7.083 | (0.924) | 112689 | 41.7927 | 41.79 |
| | 53 1,1,2-Trichloroethane | 83 | 6.839 | 6.839 | (0.892) | 75775 | 21.2017 | 21.20 |
| | 54 1,3-Dichloropropane | 76 | 6.981 | 6.978 | (0.911) | 156424 | 21.6462 | 21.64 |
| | 55 Dibromochloromethane | 129 | 7.173 | 7.173 | (0.935) | 107443 | 21.2120 | 21.21 |
| | 56 Tetrachloroethene | 164 | 6.925 | 6.925 | (0.903) | 90610 | 24.0185 | 24.01 |
| | 57 1,2-Dibromoethane | 107 | 7.259 | 7.259 | (0.947) | 96693 | 21.1664 | 21.16 |
| | 58 1-Chlorohexane | 55 | 7.694 | 7.694 | (1.550) | 110321 | 27.0384 | 27.03 |
| | 59 Chlorobenzene | 112 | 7.694 | 7.690 | (1.003) | 297677 | 23.7142 | 23.71 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 7.772 | 7.773 | (1.014) | 102278 | 21.8511 | 21.85 |
| | 61 Ethylbenzene | 106 | 7.799 | 7.799 | (1.017) | 152615 | 23.5978 | 23.59 |
| | 62 m,p-Xylenes | 106 | 7.904 | 7.900 | (1.031) | 400217 | 50.1807 | 50.18 |
| | 63 o-Xylene | 106 | 8.241 | 8.241 | (1.075) | 187098 | 23.5097 | 23.50 |
| | 64 Styrene | 104 | 8.260 | 8.256 | (1.077) | 314072 | 23.9591 | 23.95 |
| | 66 Bromoform | 173 | 8.410 | 8.410 | (1.097) | 77326 | 21.8981 | 21.89 |
| | 67 Isopropylbenzene | 105 | 8.560 | 8.560 | (1.116) | 492433 | 25.0336 | 25.03 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 8.837 | 8.837 | (0.915) | 136663 | 22.0051 | 22.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| $ | 69 | 4-Bromofluorobenzene | 95 | 8.687 | 8.687 (1.133) | 310073 | 50.8323 | 50.83 |
| * | 70 | 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 (1.000) | 353195 | 50.0000 | |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 71 | 1,2,3-Trichloropropane | 75 | 8.863 | 8.863 | (0.917) | 101408 | 22.7711 | 22.77(M) |
| 73 | n-Propylbenzene | 91 | 8.912 | 8.908 | (0.922) | 605382 | 26.0469 | 26.04 |
| 74 | Bromobenzene | 156 | 8.803 | 8.803 | (0.911) | 133583 | 23.2051 | 23.20 |
| 75 | 1,3,5-Trimethylbenzene | 105 | 9.066 | 9.066 | (0.938) | 426123 | 24.9862 | 24.98 |
| 76 | 2-Chlorotoluene | 91 | 8.972 | 8.972 | (0.929) | 357667 | 24.2332 | 24.23 |
| 77 | 4-Chlorotoluene | 91 | 9.069 | 9.066 | (0.939) | 410881 | 24.9576 | 24.95 |
| 78 | tert-Butylbenzene | 119 | 9.332 | 9.332 | (0.966) | 364191 | 25.6324 | 25.63 |
| 79 | 1,2,4-Trimethylbenzene | 105 | 9.377 | 9.377 | (0.971) | 425690 | 24.7402 | 24.74 |
| 81 | sec-Butylbenzene | 105 | 9.519 | 9.519 | (0.985) | 530224 | 26.4600 | 26.45 |
| 82 | p-Isopropyltoluene | 119 | 9.647 | 9.647 | (0.998) | 461263 | 26.2917 | 26.29 |
| 83 | 1,3-Dichlorobenzene | 146 | 9.602 | 9.602 | (0.994) | 240128 | 23.4271 | 23.42 |
| 84 | 1,4-Dichlorobenzene | 146 | 9.680 | 9.681 | (1.002) | 255742 | 23.3102 | 23.31 |
| 87 | n-Butylbenzene | 91 | 9.992 | 9.992 | (1.034) | 417363 | 27.9314 | 27.93 |
| 88 | 1,2-Dichlorobenzene | 146 | 9.992 | 9.988 | (1.034) | 236517 | 23.2557 | 23.25 |
| 89 | 1,2-Dibromo-3-Chloropropane | 155 | 10.659 | 10.655 | (1.103) | 21663 | 21.5234 | 21.52 |
| 90 | 1,2,4-Trichlorobenzene | 180 | 11.337 | 11.334 | (1.173) | 157831 | 22.3089 | 22.30 |
| 91 | Hexachlorobutadiene | 225 | 11.476 | 11.480 | (1.188) | 81303 | 25.6018 | 25.60 |
| 92 | Naphthalene | 128 | 11.544 | 11.540 | (1.195) | 342199 | 21.4861 | 21.48 |
| 93 | 1,2,3-Trichlorobenzene | 180 | 11.742 | 11.739 | (1.215) | 142695 | 21.9195 | 21.91 |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 193471 | 42.0369 | 42.03 |
| M 95 | Xylenes (total) | 106 | | | | 587315 | 73.6904 | 73.69 |
| 141 | Cyclohexane | 56 | 4.121 | 4.121 | (0.986) | 147769 | 25.3705 | 25.37 |
| 138 | Freon TF | 101 | 1.917 | 1.917 | (0.459) | 94298 | 29.9127 | 29.91 |
| 147 | Methylcyclohexane | 55 | 5.381 | 5.377 | (1.084) | 245245 | 26.1534 | 26.15 |
| 146 | Methyl Acetate | 43 | 2.236 | 2.232 | (0.535) | 54435 | 20.1279 | 20.12 |
| 148 | Tert-Butyl alcohol | 59 | 2.431 | 2.431 | (0.581) | 173415 | 369.595 | 369.59 |
| 149 | Isopropyl Alcohol | 45 | 2.097 | 2.093 | (0.502) | 92218 | 356.069 | 356.06 |

QC Flag Legend

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




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Client ID: HS230606999-07MS
Sample Info: HS230606999-07MS;HS230606999-07MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

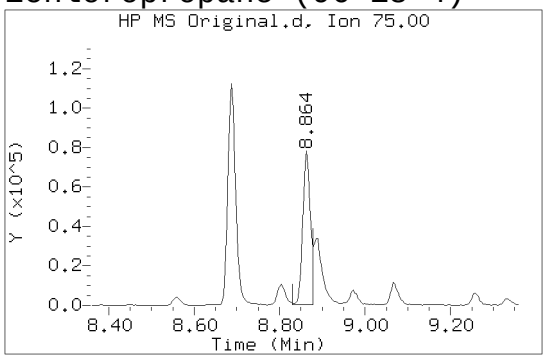
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Inj Date : 19-JUN-2023 14:50
InstruID : voa6.i
LabSampID : HS23060999-07MS

## 1,2,3-Trichloropropane (96-18-4)

Reason Code:

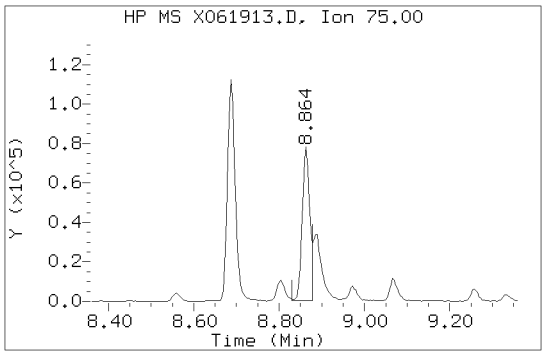
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HEIGHT
77945
23-Jun-2023
17:24
linh
pham



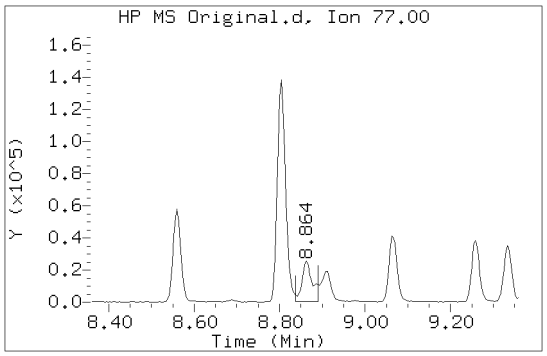

**AFTER**

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17:24
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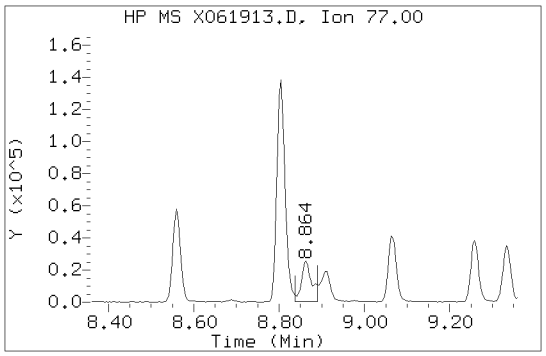

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23-Jun-2023
17:24
linh
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**AFTER**

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HEIGHT
25218
23-Jun-2023
17:24
linh
pham

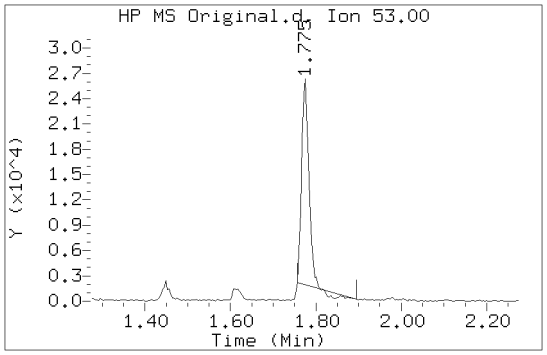



## Chloroprene (126-99-8)

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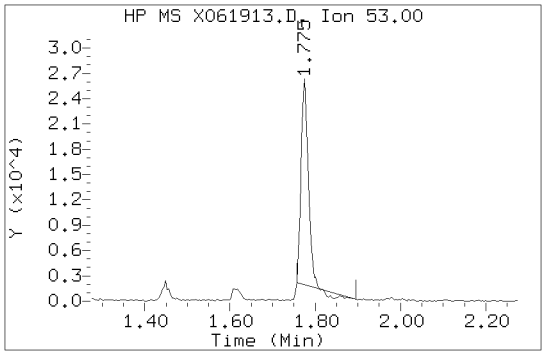
**BEFORE**

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HEIGHT
24376
23-Jun-2023
17:24
linh
pham



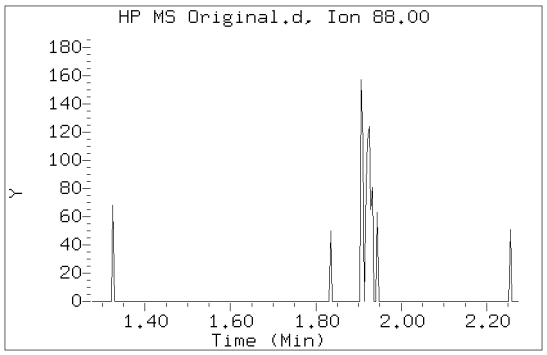

**AFTER**

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23-Jun-2023
17:24
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pham



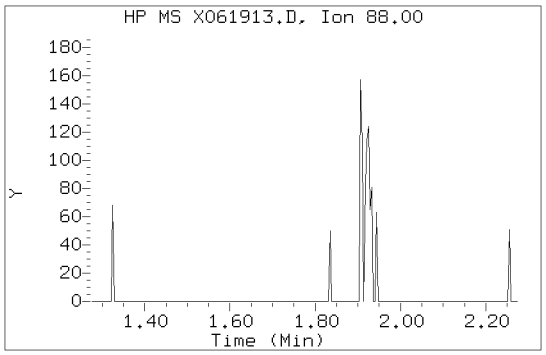

**BEFORE**

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HEIGHT
0
23-Jun-2023
17:24
linh
pham




**AFTER**

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AREA
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HEIGHT
0
23-Jun-2023
17:24
linh
pham



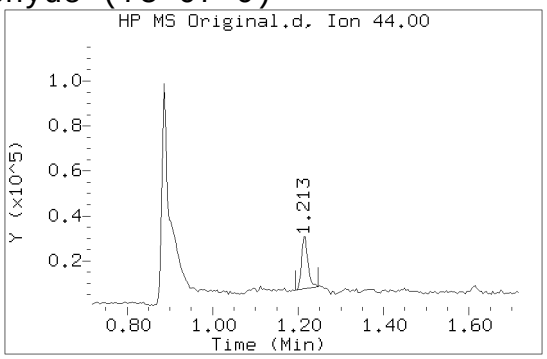
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Inj Date : 19-JUN-2023 14:50
InstruID : voa6.i
LabSampID : HS23060999-07MS

## Acetaldehyde (75-07-0)

Reason Code:

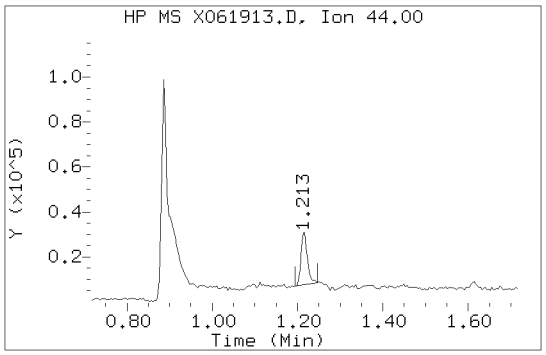
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AREA
24420
HEIGHT
23184
23-Jun-2023
17:24
linh
pham



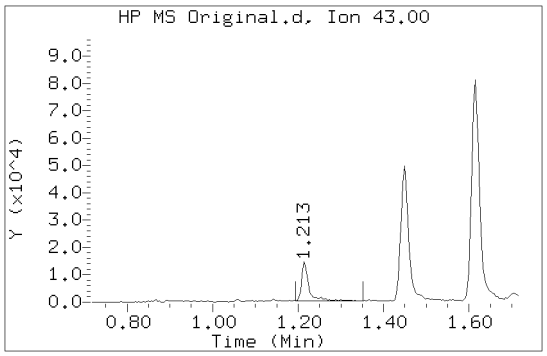

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23-Jun-2023
17:24
linh
pham



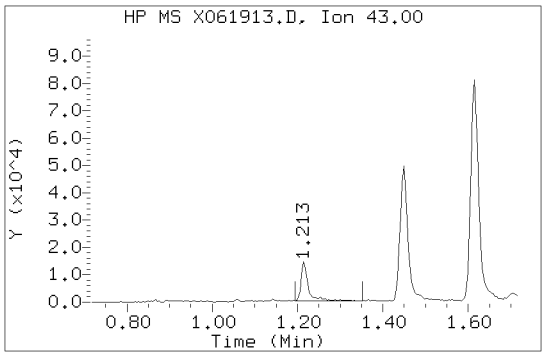

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14385
23-Jun-2023
17:24
linh
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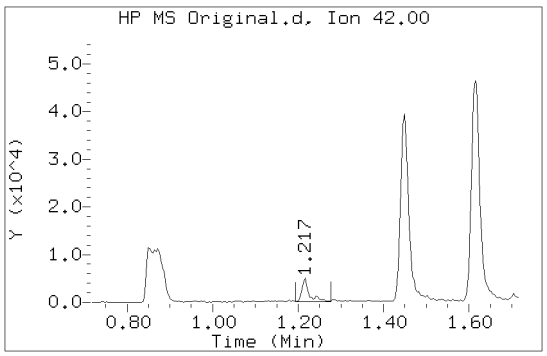

### AFTER

MASS
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14385
23-Jun-2023
17:24
linh
pham



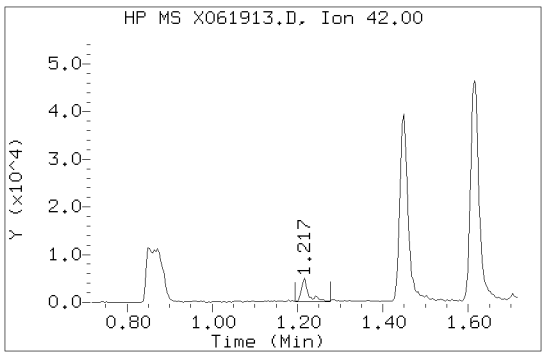

### BEFORE

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42
AREA
6185
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4971
23-Jun-2023
17:24
linh
pham




### AFTER

MASS
42
AREA
6185
HEIGHT
4971
23-Jun-2023
17:24
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061914.D  Page 1
Report Date: 23-Jun-2023 17:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061914.D
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Inj Date  : 19-JUN-2023 15:12
Operator  : PC  Inst ID: voa6.i
Smp Info  : HS23060999-07MSD;HS23060999-07MSD;3;;MSD
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\8260W.m
Meth Date : 23-Jun-2023 17:25 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 13  QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.181 | 4.178 | (1.000) | 455333 | 50.0000 | |
| 135 1,4-Dioxane | 88 | 5.598 | 5.598 | (1.339) | 19938 | 361.320 | 361.32(a) |
| 140 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.279) | 86197 | 22.8436 | 22.84 |
| 25 Methacrylonitrile | 41 | 3.825 | 3.825 | (0.915) | 75535 | 20.1051 | 20.10 |
| 12 Isobutyl Alcohol | 43 | 4.676 | 4.672 | (1.118) | 239924 | 404.112 | 404.11 |
| 13 Acetonitrile | 39 | 2.202 | 2.198 | (0.527) | 102433 | 231.936 | 231.93 |
| 14 Allyl Chloride | 41 | 2.202 | 2.198 | (0.527) | 199221 | 19.9510 | 19.95 |
| 4 Propionitrile | 54 | 3.653 | 3.649 | (0.874) | 106813 | 193.968 | 193.96(a) |
| 72 trans-1,4-Dichloro-2-butene | 53 | 8.890 | 8.886 | (1.159) | 30055 | 19.7415 | 19.74 |
| 194 Acetaldehyde | 44 | 1.212 | 1.212 | (0.290) | 25859 | 106.327 | 106.32(M) |
| 23 Chloroprene | 53 | 1.771 | 1.775 | (0.424) | 33640 | 22.2280 | 22.22(M) |
| 130 Ethyl Acetate | 43 | 3.660 | 3.653 | (0.875) | 84742 | 18.2578 | 18.25 |
| 40 Methyl Methacrylate | 41 | 5.610 | 5.606 | (1.342) | 74036 | 21.0037 | 21.00 |
| 49 Ethyl Methacrylate | 69 | 6.708 | 6.708 | (1.351) | 84190 | 17.6328 | 17.63 |
| 131 Methyl Acrylate | 55 | 3.694 | 3.687 | (0.883) | 61652 | 16.7178 | 16.71 |
| 156 Diisopropyl ether | 45 | 3.000 | 3.001 | (0.718) | 263098 | 19.5918 | 19.59 |
| 164 Dicyclopentadiene | 66 | 9.681 | 9.681 | (1.002) | 485534 | 25.0451 | 25.04 |
| 166 1,2,3-Trimethylbenzene | 105 | 9.729 | 9.729 | (1.007) | 391801 | 23.7804 | 23.78 |
| 2 Dichlorodifluoromethane | 85 | 0.976 | 0.976 | (0.234) | 77111 | 19.8670 | 19.86 |
| 3 Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 107119 | 22.8249 | 22.82 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5 Vinyl Chloride | 62 | 1.149 | 1.145 (0.275) | 107820 | 22.5472 | 22.54 |
| 6 Bromomethane | 94 | 1.344 | 1.344 (0.321) | 58316 | 21.2451 | 21.24 |

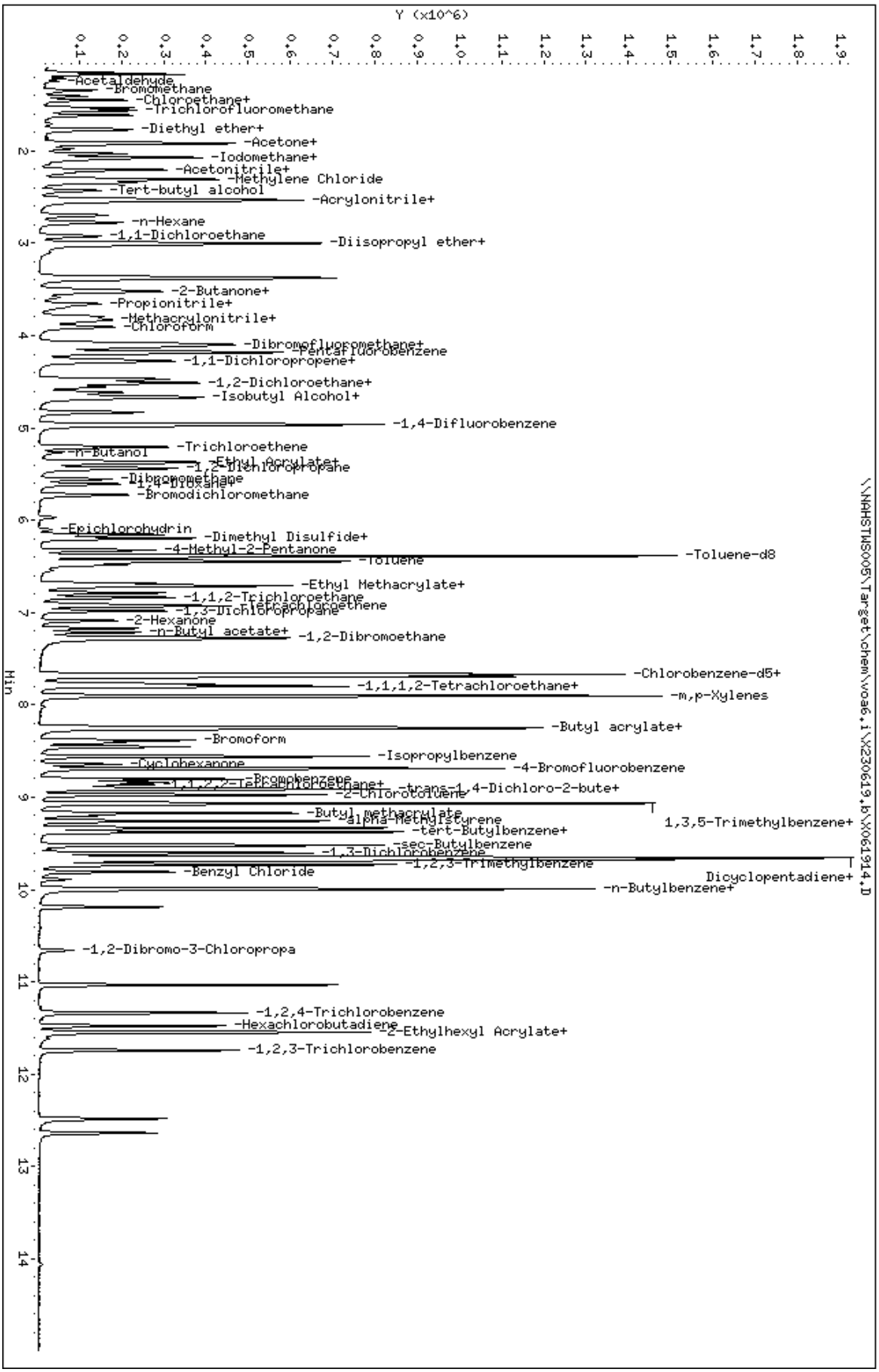
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 7 Chloroethane | 64 | 1.407 | 1.407 | (0.337) | 66017 | 22.5850 | 22.58 |
| | 8 Trichlorofluoromethane | 101 | 1.565 | 1.561 | (0.374) | 137203 | 24.1444 | 24.14 |
| | 9 Acrolein | 56 | 1.449 | 1.449 | (0.347) | 15570 | 55.1071 | 55.10 |
| | 10 Acetone | 43 | 1.973 | 1.973 | (0.472) | 57069 | 47.9252 | 47.92 |
| | 11 1,1-Dichloroethene | 96 | 1.917 | 1.917 | (0.459) | 79451 | 22.2876 | 22.28 |
| | 15 Iodomethane | 142 | 2.030 | 2.030 | (0.485) | 206015 | 36.6200 | 36.62 |
| | 16 Acrylonitrile | 53 | 2.539 | 2.532 | (0.607) | 57598 | 39.8515 | 39.85 |
| | 17 Methylene Chloride | 84 | 2.307 | 2.303 | (0.552) | 89377 | 17.7498 | 17.74 |
| | 18 Methyl tert-butyl ether | 73 | 2.536 | 2.536 | (0.606) | 246136 | 19.7827 | 19.78 |
| | 19 Carbon Disulfide | 76 | 2.071 | 2.071 | (0.495) | 441614 | 34.7912 | 34.79 |
| | 20 trans-1,2-Dichloroethene | 96 | 2.532 | 2.528 | (0.606) | 82123 | 19.2523 | 19.25 |
| | 21 Vinyl Acetate | 43 | 3.000 | 2.997 | (0.718) | 453948 | 39.8721 | 39.87 |
| | 22 1,1-Dichloroethane | 63 | 2.922 | 2.922 | (0.699) | 146845 | 19.1096 | 19.10 |
| | 24 2-Butanone | 43 | 3.585 | 3.578 | (0.857) | 47715 | 31.8423 | 31.84 |
| | 26 2,2-Dichloropropane | 77 | 3.510 | 3.507 | (0.840) | 131386 | 21.6639 | 21.66 |
| | 27 cis-1,2-Dichloroethene | 96 | 3.529 | 3.525 | (0.844) | 94193 | 19.1487 | 19.14 |
| | 28 Chloroform | 83 | 3.904 | 3.904 | (0.934) | 153944 | 18.6130 | 18.61 |
| | 29 Bromochloromethane | 128 | 3.795 | 3.791 | (0.908) | 48374 | 18.4547 | 18.45 |
| $ | 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.980) | 203757 | 50.1073 | 50.10 |
| | 31 1,1,1-Trichloroethane | 97 | 4.080 | 4.080 | (0.976) | 135718 | 20.3025 | 20.30 |
| | 32 1,1-Dichloropropene | 75 | 4.282 | 4.279 | (0.863) | 118284 | 21.1910 | 21.19 |
| | 33 1,2-Dichloroethane | 62 | 4.556 | 4.552 | (0.918) | 120149 | 21.4815 | 21.48 |
| | 34 Carbon Tetrachloride | 117 | 4.264 | 4.264 | (0.859) | 118219 | 22.0221 | 22.02 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 226487 | 51.6254 | 51.62 |
| * | 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 666139 | 50.0000 | |
| | 37 Benzene | 78 | 4.511 | 4.511 | (0.909) | 337972 | 19.7242 | 19.72 |
| | 38 Trichloroethene | 130 | 5.208 | 5.205 | (1.049) | 101249 | 21.4310 | 21.43 |
| | 39 Bromodichloromethane | 83 | 5.726 | 5.722 | (1.153) | 120595 | 19.8962 | 19.89 |
| | 42 1,2-Dichloropropane | 63 | 5.437 | 5.433 | (1.095) | 88858 | 19.7568 | 19.75 |
| | 44 Dibromomethane | 93 | 5.553 | 5.550 | (1.119) | 57915 | 20.5128 | 20.51 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.325 | 6.322 | (0.825) | 161166 | 39.8871 | 39.88 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.153 | 6.153 | (1.239) | 148411 | 19.8586 | 19.85 |
| * | 47 Chlorobenzene-d5 | 117 | 7.668 | 7.668 | (1.000) | 625497 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.385 | 6.386 | (0.833) | 829075 | 52.4268 | 52.42 |
| | 50 Toluene | 91 | 6.445 | 6.442 | (0.841) | 387756 | 21.1163 | 21.11 |
| | 51 trans-1,3-Dichloropropene | 75 | 6.682 | 6.678 | (1.346) | 125072 | 20.0025 | 20.00 |
| | 52 2-Hexanone | 43 | 7.086 | 7.083 | (0.924) | 106992 | 39.6418 | 39.64 |
| | 53 1,1,2-Trichloroethane | 83 | 6.839 | 6.839 | (0.892) | 70553 | 19.7217 | 19.72 |
| | 54 1,3-Dichloropropane | 76 | 6.982 | 6.978 | (0.911) | 147621 | 20.4084 | 20.40 |
| | 55 Dibromochloromethane | 129 | 7.176 | 7.173 | (0.936) | 99588 | 19.6424 | 19.64 |
| | 56 Tetrachloroethene | 164 | 6.925 | 6.925 | (0.903) | 80511 | 21.3210 | 21.32 |
| | 57 1,2-Dibromoethane | 107 | 7.259 | 7.259 | (0.947) | 89721 | 19.6214 | 19.62 |
| | 58 1-Chlorohexane | 55 | 7.694 | 7.694 | (1.550) | 96386 | 23.7934 | 23.79 |
| | 59 Chlorobenzene | 112 | 7.694 | 7.690 | (1.003) | 271551 | 21.6121 | 21.61 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 7.772 | 7.773 | (1.014) | 93954 | 20.0534 | 20.05 |
| | 61 Ethylbenzene | 106 | 7.799 | 7.799 | (1.017) | 133942 | 20.6907 | 20.69 |
| | 62 m,p-Xylenes | 106 | 7.904 | 7.900 | (1.031) | 358833 | 44.9487 | 44.94 |
| | 63 o-Xylene | 106 | 8.241 | 8.241 | (1.075) | 166989 | 20.9628 | 20.96 |
| | 64 Styrene | 104 | 8.260 | 8.256 | (1.077) | 287455 | 21.9076 | 21.90 |
| | 66 Bromoform | 173 | 8.410 | 8.410 | (1.097) | 68243 | 19.3073 | 19.30 |
| | 67 Isopropylbenzene | 105 | 8.560 | 8.560 | (1.116) | 433674 | 22.0253 | 22.02 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 8.837 | 8.837 | (0.915) | 117352 | 19.2544 | 19.25 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| $ | 69 | 4-Bromofluorobenzene | 95 | 8.687 | 8.687 (1.133) | 301040 | 49.2880 | 49.28 |
| * | 70 | 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 (1.000) | 346615 | 50.0000 | |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 71 | 1,2,3-Trichloropropane | 75 | 8.863 | 8.863 | (0.917) | 87563 | 20.0355 | 20.03(M) |
| 73 | n-Propylbenzene | 91 | 8.908 | 8.908 | (0.922) | 513612 | 22.5179 | 22.51 |
| 74 | Bromobenzene | 156 | 8.803 | 8.803 | (0.911) | 116136 | 20.5573 | 20.55 |
| 75 | 1,3,5-Trimethylbenzene | 105 | 9.066 | 9.066 | (0.938) | 389060 | 23.2461 | 23.24 |
| 76 | 2-Chlorotoluene | 91 | 8.972 | 8.972 | (0.929) | 320689 | 22.1403 | 22.14 |
| 77 | 4-Chlorotoluene | 91 | 9.069 | 9.066 | (0.939) | 370456 | 22.9293 | 22.92 |
| 78 | tert-Butylbenzene | 119 | 9.336 | 9.332 | (0.966) | 325759 | 23.3627 | 23.36 |
| 79 | 1,2,4-Trimethylbenzene | 105 | 9.377 | 9.377 | (0.971) | 386454 | 22.8862 | 22.88 |
| 81 | sec-Butylbenzene | 105 | 9.519 | 9.519 | (0.985) | 478019 | 24.3076 | 24.30 |
| 82 | p-Isopropyltoluene | 119 | 9.647 | 9.647 | (0.998) | 414760 | 24.0898 | 24.08 |
| 83 | 1,3-Dichlorobenzene | 146 | 9.606 | 9.602 | (0.994) | 218708 | 21.7424 | 21.74 |
| 84 | 1,4-Dichlorobenzene | 146 | 9.681 | 9.681 | (1.002) | 233248 | 21.6635 | 21.66 |
| 87 | n-Butylbenzene | 91 | 9.995 | 9.992 | (1.035) | 373167 | 25.4477 | 25.44 |
| 88 | 1,2-Dichlorobenzene | 146 | 9.992 | 9.988 | (1.034) | 218977 | 21.9398 | 21.93 |
| 89 | 1,2-Dibromo-3-Chloropropane | 155 | 10.659 | 10.655 | (1.103) | 18700 | 18.9637 | 18.96 |
| 90 | 1,2,4-Trichlorobenzene | 180 | 11.337 | 11.334 | (1.173) | 142074 | 20.4629 | 20.46 |
| 91 | Hexachlorobutadiene | 225 | 11.476 | 11.480 | (1.188) | 71020 | 22.7883 | 22.78 |
| 92 | Naphthalene | 128 | 11.544 | 11.540 | (1.195) | 311578 | 19.9349 | 19.93 |
| 93 | 1,2,3-Trichlorobenzene | 180 | 11.742 | 11.739 | (1.215) | 133479 | 20.8930 | 20.89 |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 176316 | 38.4010 | 38.40 |
| M 95 | Xylenes (total) | 106 | | | | 525822 | 65.9115 | 65.91 |
| 141 | Cyclohexane | 56 | 4.121 | 4.121 | (0.986) | 121671 | 20.9624 | 20.96 |
| 138 | Freon TF | 101 | 1.917 | 1.917 | (0.459) | 85082 | 27.1148 | 27.11 |
| 147 | Methylcyclohexane | 55 | 5.381 | 5.377 | (1.084) | 221491 | 23.7905 | 23.79 |
| 146 | Methyl Acetate | 43 | 2.236 | 2.232 | (0.535) | 52605 | 19.5190 | 19.51 |
| 148 | Tert-Butyl alcohol | 59 | 2.431 | 2.431 | (0.581) | 161385 | 345.152 | 345.15 |
| 149 | Isopropyl Alcohol | 45 | 2.097 | 2.093 | (0.502) | 86612 | 335.586 | 335.58 |

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\voa6,i\X230619,b\X061914,D
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Client ID: HS23060999-07HSD
Sample Info: HS23060999-07HSD;HS23060999-07HSD;3;;HSD
Purge Volume: 5.0
Column phase: DB624

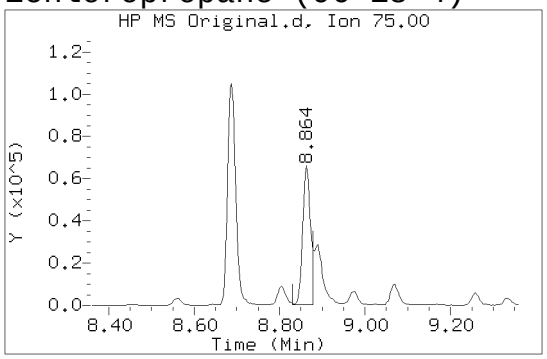
Instrument: voa6,i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061914.D
Inj Date : 19-JUN-2023 15:12
InstruID : voa6.i
LabSampID : HS23060999-07MSD

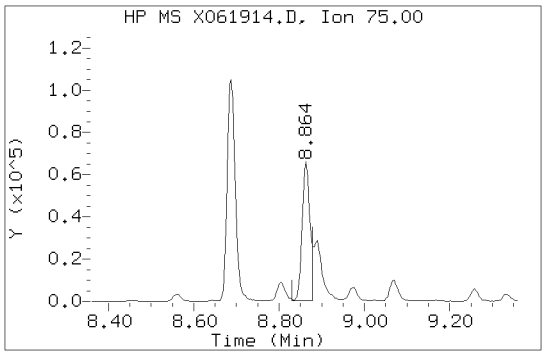
## 1,2,3-Trichloropropane (96-18-4)

Reason Code:

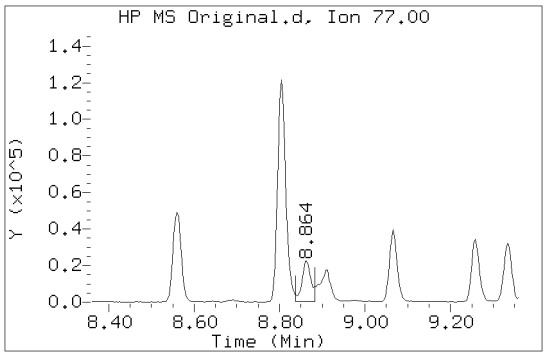
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MASS
75
AREA
87563
HEIGHT
66040
23-Jun-2023
17:24
linh
pham



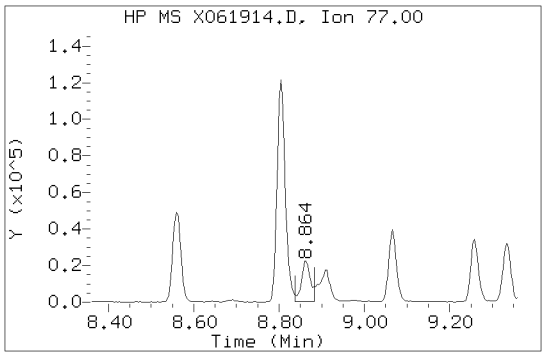

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66040
23-Jun-2023
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BEFORE
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23-Jun-2023
17:24
linh
pham



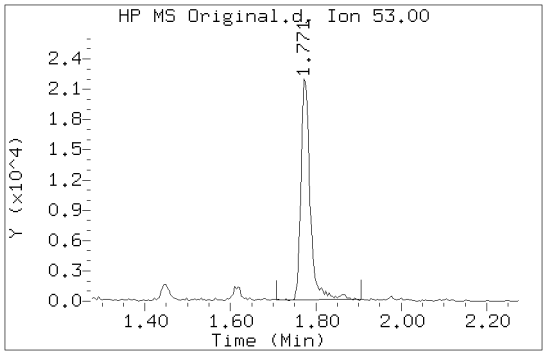

AFTER
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HEIGHT
22288
23-Jun-2023
17:24
linh
pham



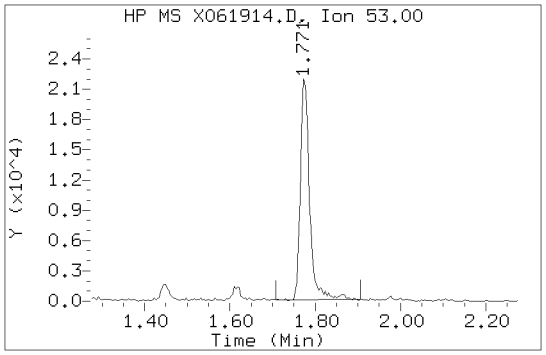

## Chloroprene (126-99-8)

Reason Code:

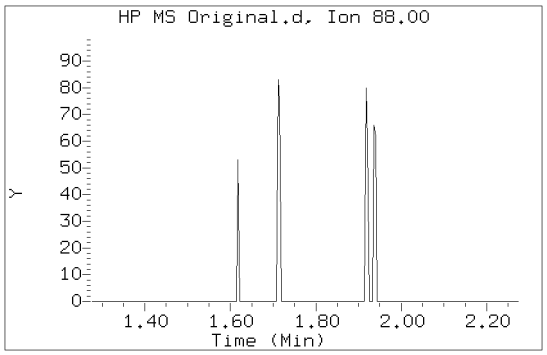
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HEIGHT
21863
23-Jun-2023
17:24
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pham



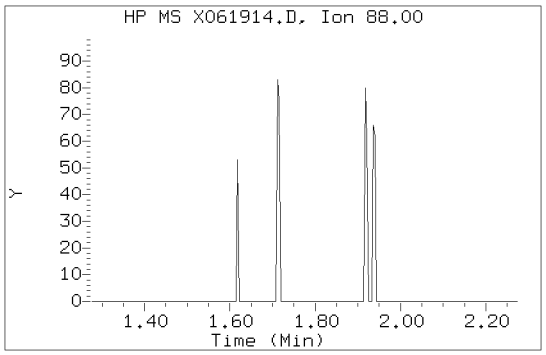

AFTER
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33640
HEIGHT
21863
23-Jun-2023
17:24
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pham




BEFORE
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HEIGHT
0
23-Jun-2023
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AFTER
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17:24
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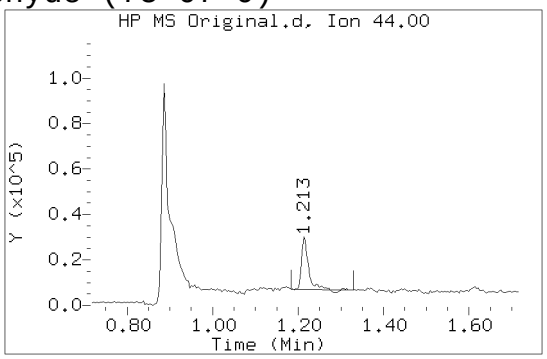


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InstruID : voa6.i
LabSampID : HS23060999-07MSD

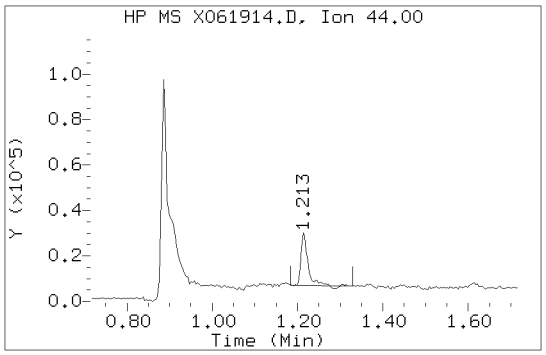
Acetaldehyde (75-07-0)

Reason Code:

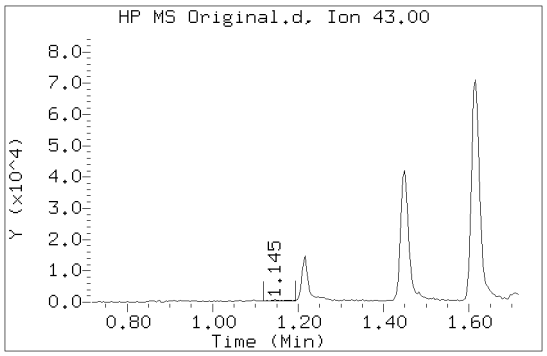
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AREA
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HEIGHT
23200
23-Jun-2023
17:24
linh
pham



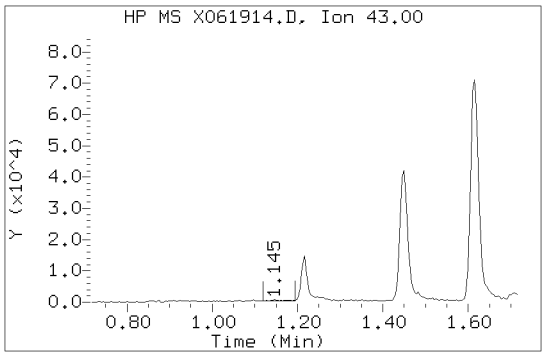

AFTER
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HEIGHT
23200
23-Jun-2023
17:24
linh
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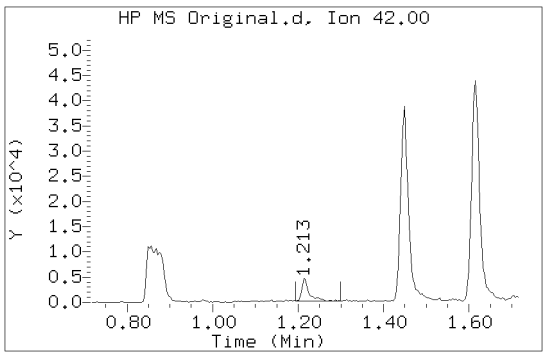

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AREA
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HEIGHT
379
23-Jun-2023
17:24
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pham



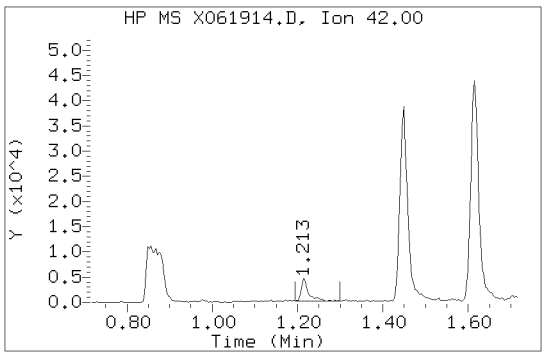

AFTER
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23-Jun-2023
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BEFORE
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HEIGHT
4450
23-Jun-2023
17:24
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pham




AFTER
MASS
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HEIGHT
4450
23-Jun-2023
17:24
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061915.D  Page 1
Report Date: 23-Jun-2023 17:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061915.D
Lab Smp Id: HS23060999-03  Client Smp ID: HS23060999-03
Inj Date  : 19-JUN-2023 15:33
Operator  : PC  Inst ID: voa6.i
Smp Info  : HS23060999-03;HS23060999-03;;;
Misc Info : V6;WATER;0;250;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\8260W.m
Meth Date : 23-Jun-2023 17:25 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 14
Dil Factor: 250.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 250.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * | 1 Pentafluorobenzene | 168 | 4.177 | 4.178 | (1.000) | 448676 | 50.0000 | |
| | 27 cis-1,2-Dichloroethene | 96 | 3.536 | 3.525 | (0.847) | 20392 | 4.20704 | 1051.76(a) |
| $ | 30 Dibromofluoromethane | 113 | 4.099 | 4.099 | (0.981) | 201668 | 50.3309 | 50.33 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 4.474 | 4.470 | (1.071) | 226034 | 52.2975 | 52.29 |
| * | 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 649631 | 50.0000 | |
| | 38 Trichloroethene | 130 | 5.205 | 5.205 | (1.048) | 138514 | 30.0638 | 7515.95 |
| * | 47 Chlorobenzene-d5 | 117 | 7.667 | 7.668 | (1.000) | 579865 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.385 | 6.386 | (0.833) | 780610 | 53.2467 | 53.24 |
| $ | 69 4-Bromofluorobenzene | 95 | 8.687 | 8.687 | (1.133) | 273632 | 48.3156 | 48.31 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 | (1.000) | 298072 | 50.0000 | |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 20392 | 4.20704 | 1051.76(a) |

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01195752

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061915.D



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Client ID: HS23060999-03

Instrument: voa6.i

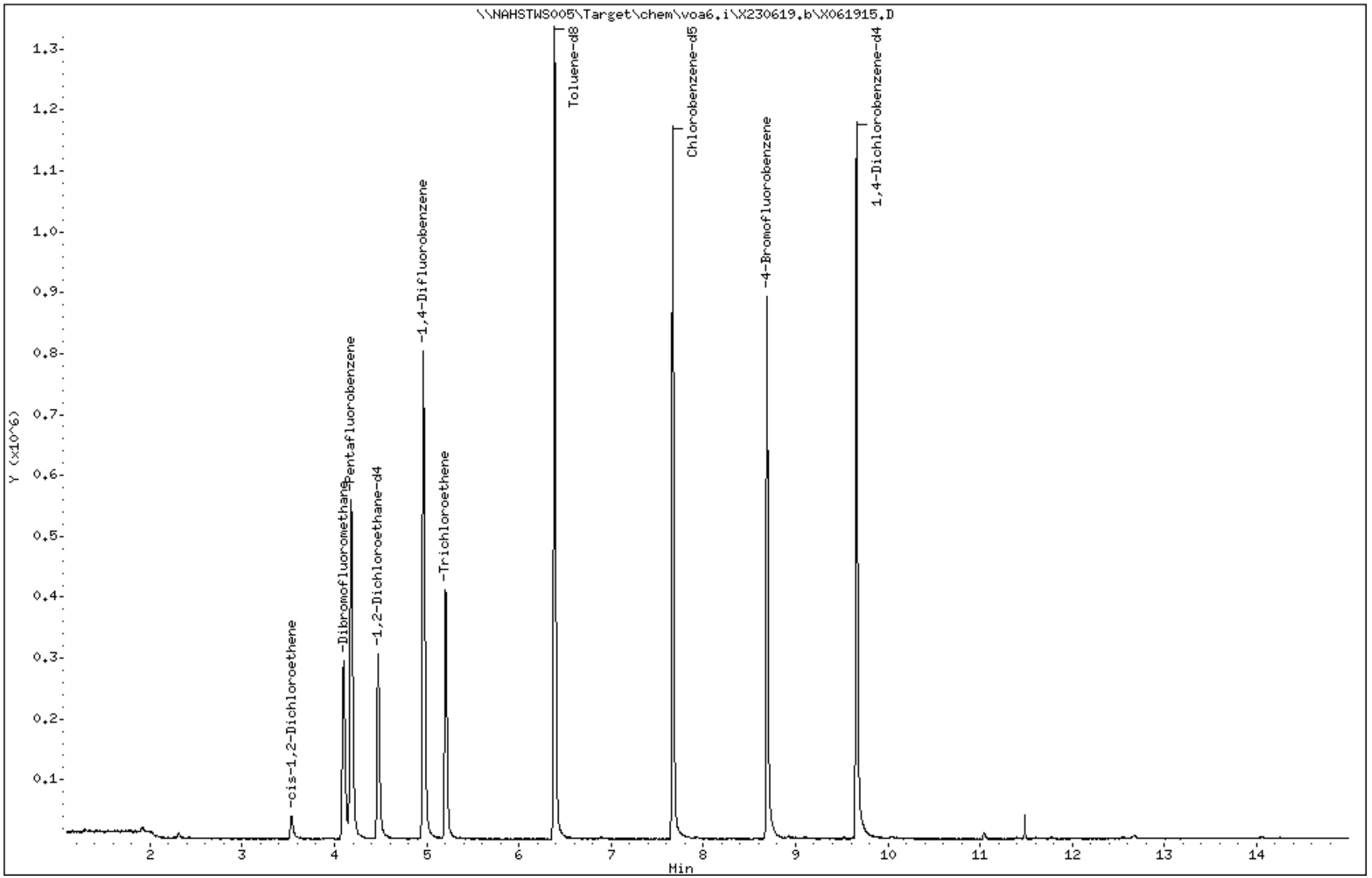
Sample Info: HS23060999-03;HS23060999-03;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061915.D



Date : 19-JUN-2023 15:33

Client ID: HS23060999-03

Instrument: voa6.i

Sample Info: HS23060999-03;HS23060999-03;;;

Purge Volume: 5.0

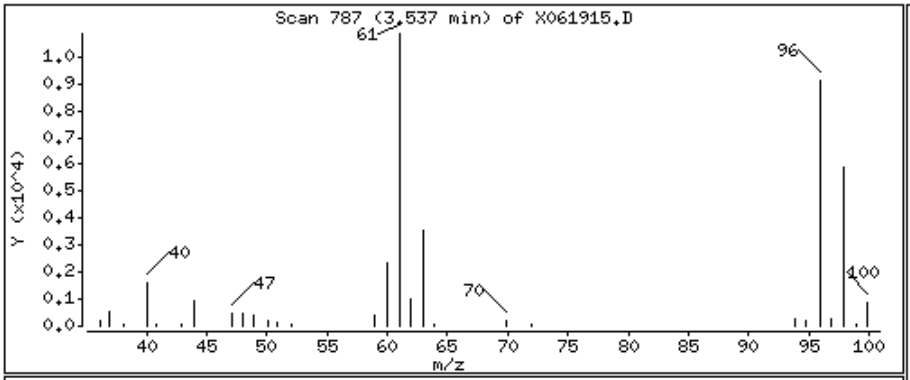
Operator: PC

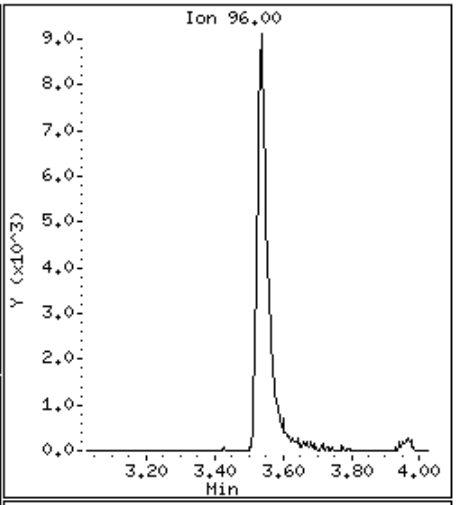
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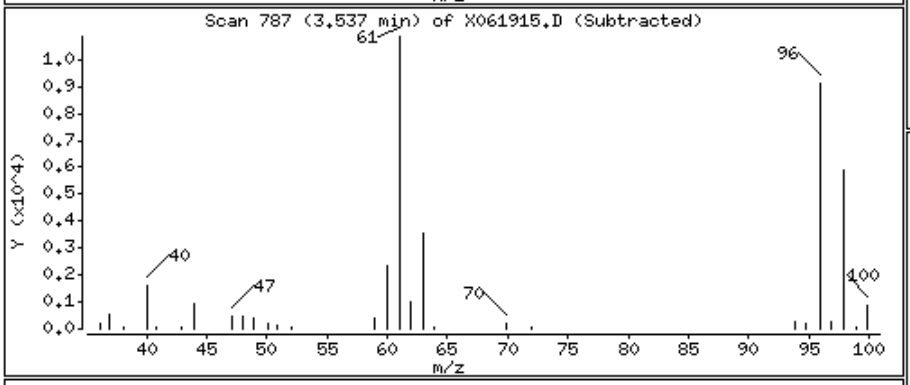
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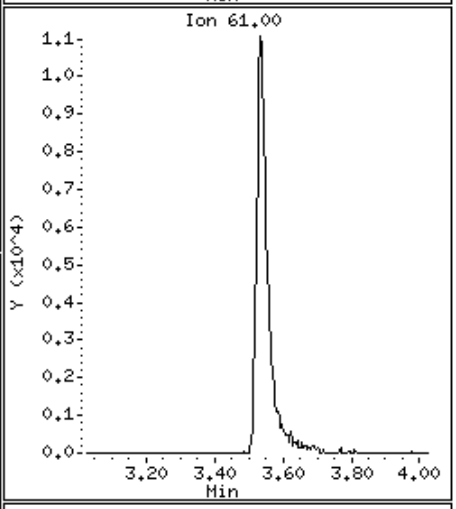
27 cis-1,2-Dichloroethene

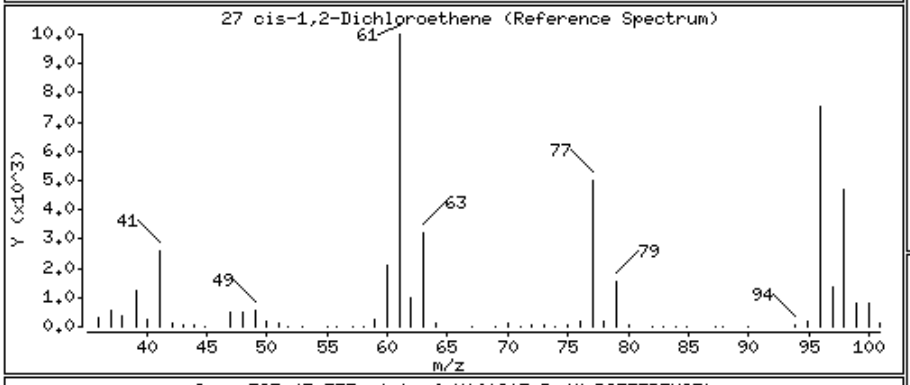
Concentration: 1051.76 ug/l

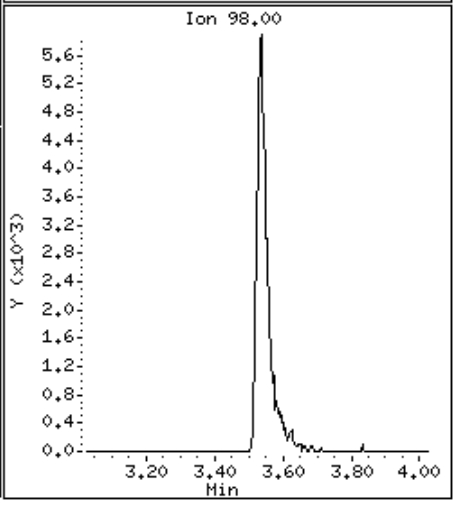


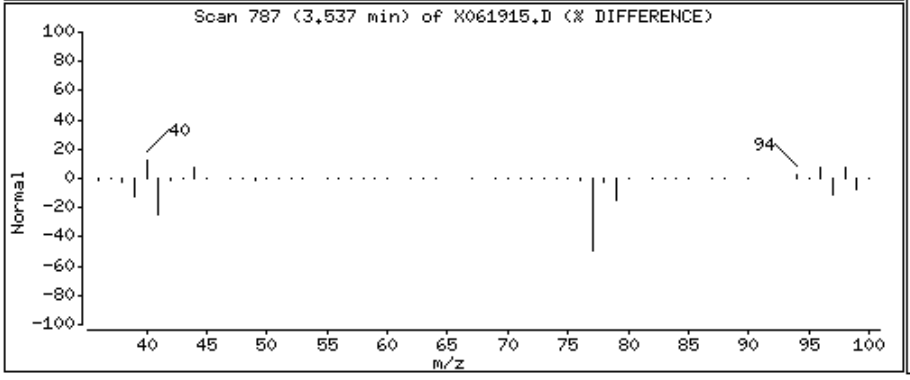



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061915.D Page 3

Date : 19-JUN-2023 15:33

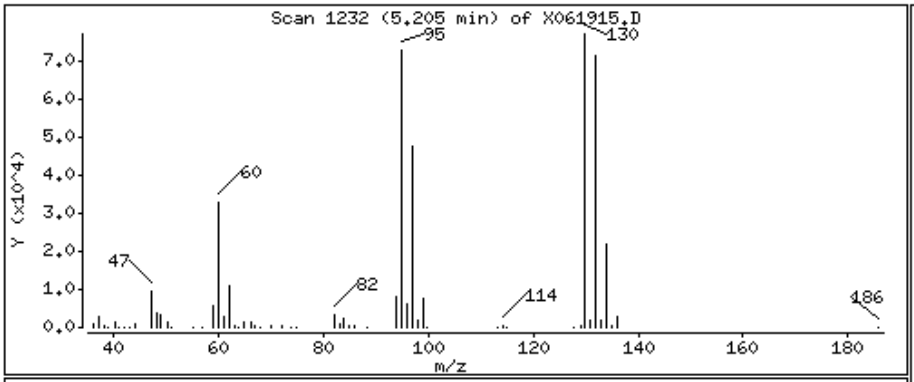
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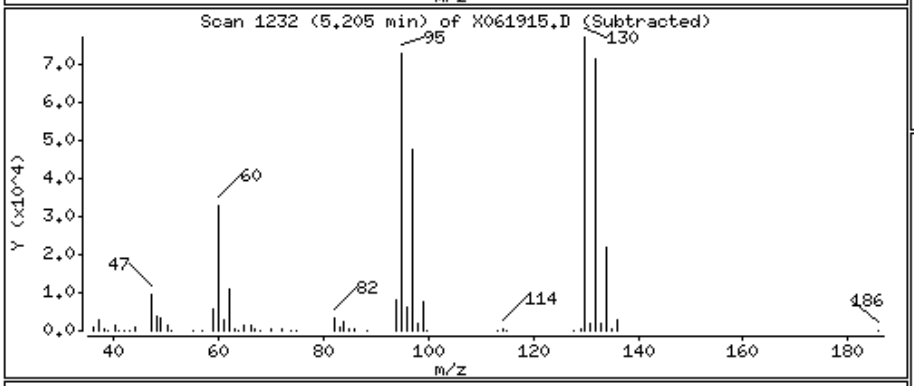
Sample Info: HS23060999-03;HS23060999-03;;;

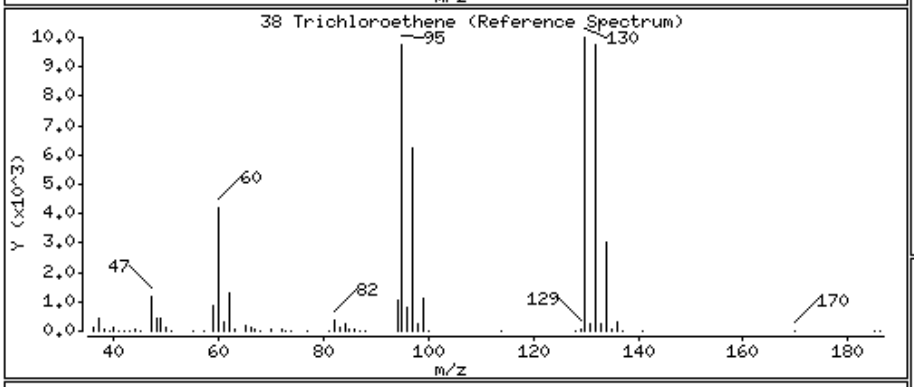
Purge Volume: 5.0 Operator: PC

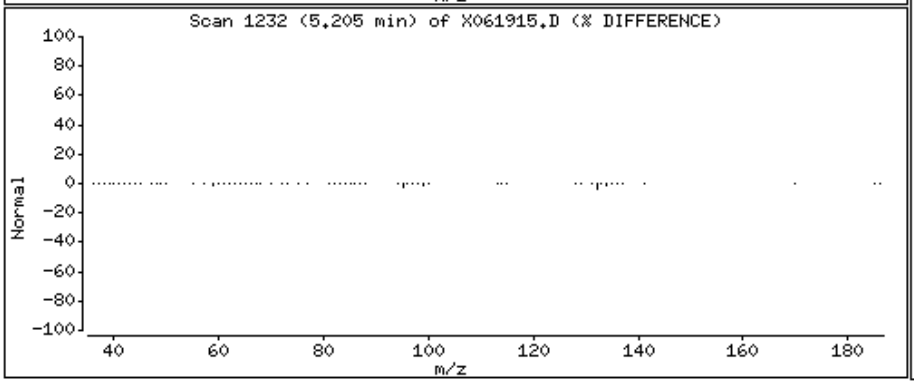
Column phase: DB624 Column diameter: 0.18

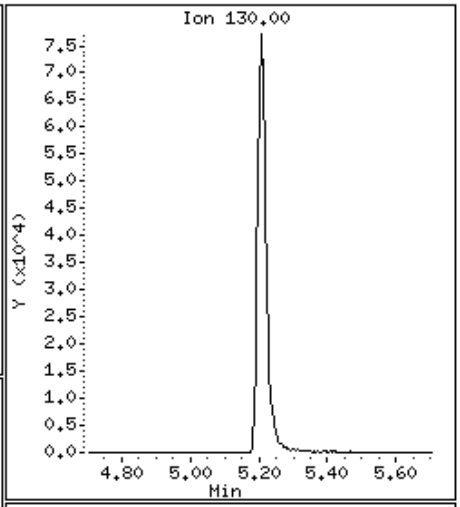
38 Trichloroethene Concentration: 7515.95 ug/l

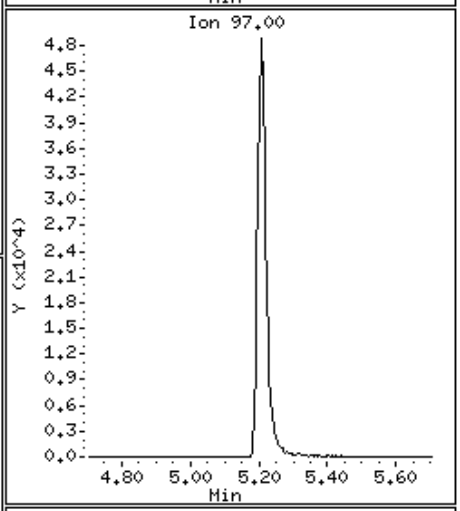


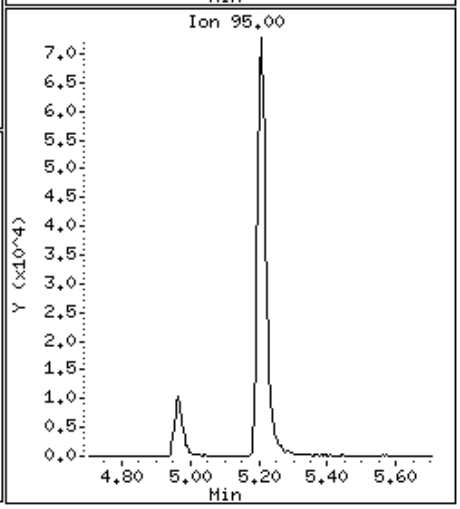



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Inj Date  : 19-JUN-2023 15:33
InstruID  : voa6.i
LabSampID : HS23060999-03

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061916.D  Page 1
Report Date: 23-Jun-2023 17:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061916.D
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Inj Date  : 19-JUN-2023 15:54
Operator  : PC  Inst ID: voa6.i
Smp Info  : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\8260W.m
Meth Date : 23-Jun-2023 17:25 voa6.i  Quant Type: ISTD
Cal Date  : 15-JUN-2023 13:42  Cal File: X061508.D
Als bottle: 15  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.181 | 4.181 | (1.000) | 447271 | 50.0000 | |
| 135 1,4-Dioxane | 88 | 5.594 | 5.594 | (1.338) | 51530 | 1000.00 | 950.66 |
| 140 1,3-Butadiene | 54 | 1.167 | 1.167 | (0.279) | 194696 | 50.0000 | 52.52 |
| 25 Methacrylonitrile | 41 | 3.821 | 3.821 | (0.914) | 186619 | 50.0000 | 50.56 |
| 12 Isobutyl Alcohol | 43 | 4.676 | 4.676 | (1.118) | 593120 | 1000.00 | 1017.01 |
| 13 Acetonitrile | 39 | 2.202 | 2.202 | (0.527) | 219593 | 500.000 | 506.18 |
| 14 Allyl Chloride | 41 | 2.202 | 2.202 | (0.527) | 444191 | 50.0000 | 45.28 |
| 4 Propionitrile | 54 | 3.649 | 3.649 | (0.873) | 273131 | 500.000 | 504.93 |
| 72 trans-1,4-Dichloro-2-butene | 53 | 8.886 | 8.886 | (1.159) | 78392 | 50.0000 | 48.05 |
| 194 Acetaldehyde | 44 | 1.216 | 1.216 | (0.291) | 47360 | 200.000 | 201.22(M) |
| 23 Chloroprene | 53 | 1.775 | 1.775 | (0.424) | 71947 | 50.0000 | 48.39(M) |
| 130 Ethyl Acetate | 43 | 3.653 | 3.653 | (0.874) | 213161 | 50.0000 | 46.75 |
| 40 Methyl Methacrylate | 41 | 5.606 | 5.606 | (1.341) | 185664 | 50.0000 | 53.62 |
| 49 Ethyl Methacrylate | 69 | 6.708 | 6.708 | (1.351) | 222936 | 50.0000 | 44.44 |
| 131 Methyl Acrylate | 55 | 3.690 | 3.690 | (0.883) | 192225 | 50.0000 | 53.06 |
| 156 Diisopropyl ether | 45 | 3.000 | 3.000 | (0.718) | 625401 | 50.0000 | 47.41 |
| 164 Dicyclopentadiene | 66 | 9.680 | 9.680 | (1.002) | 980511 | 50.0000 | 44.90 |
| 166 1,2,3-Trimethylbenzene | 105 | 9.729 | 9.729 | (1.007) | 891014 | 50.0000 | 48.01 |
| 2 Dichlorodifluoromethane | 85 | 0.976 | 0.976 | (0.234) | 176085 | 50.0000 | 45.74 |
| 3 Chloromethane | 50 | 1.081 | 1.081 | (0.259) | 237513 | 50.0000 | 50.23 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5 Vinyl Chloride | 62 | 1.149 | 1.149 (0.275) | 241540 | 50.0000 | 51.42 |
| 6 Bromomethane | 94 | 1.344 | 1.344 (0.321) | 135850 | 50.0000 | 50.38 |

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061916.D Page 2
Report Date: 23-Jun-2023 17:25

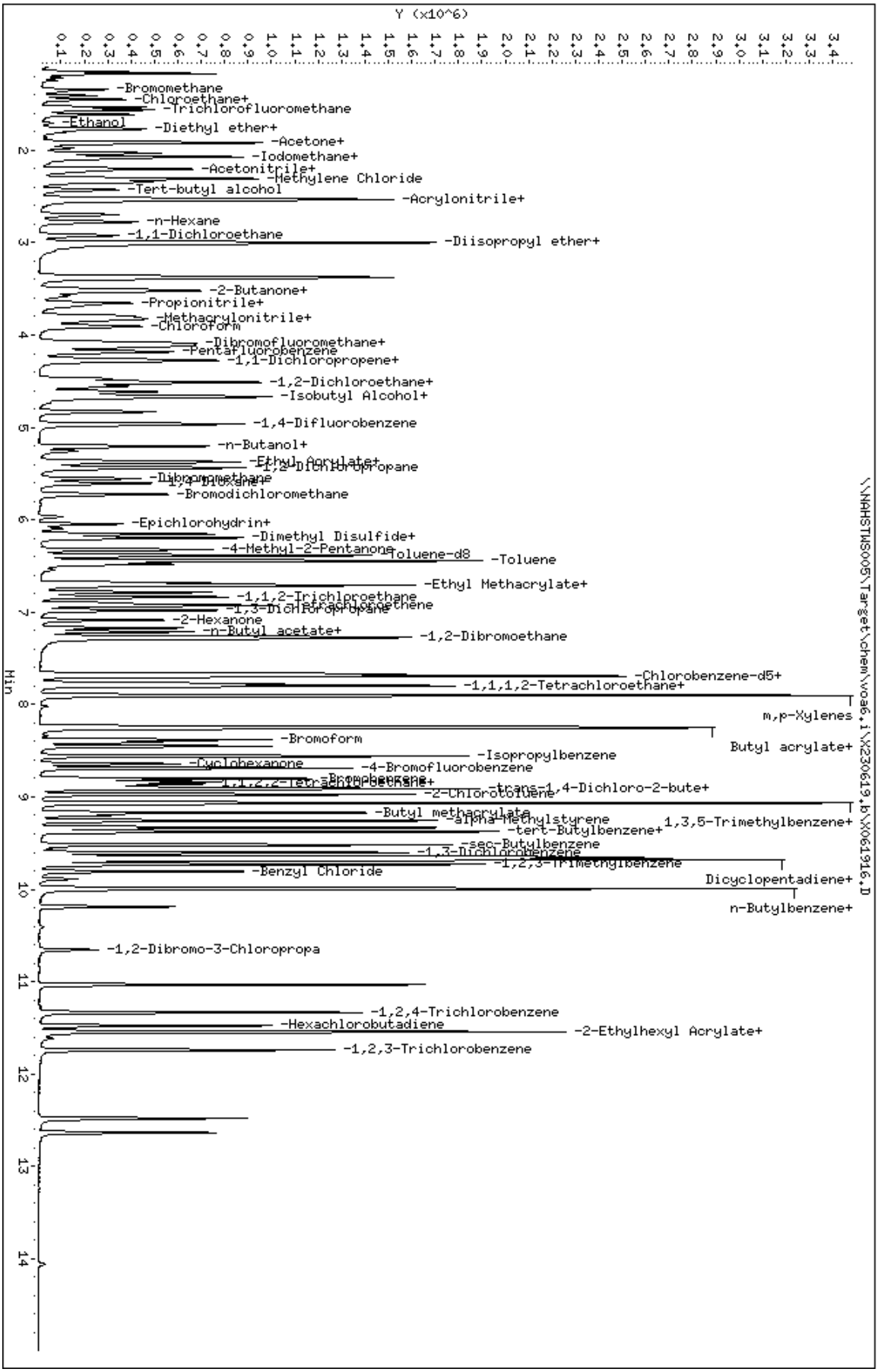
| | | QUANT SIG | | | | | AMOUNTS | |
|---|---|---|---|---|---|---|---|---|
| | Compounds | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT ( ug/l) | ON-COL ( ug/l) |
| | 7 Chloroethane | 64 | 1.407 | 1.407 | (0.337) | 149389 | 50.0000 | 52.02 |
| | 8 Trichlorofluoromethane | 101 | 1.565 | 1.565 | (0.374) | 292423 | 50.0000 | 52.38 |
| | 9 Acrolein | 56 | 1.448 | 1.448 | (0.346) | 27910 | 100.000 | 100.56 |
| | 10 Acetone | 43 | 1.977 | 1.977 | (0.473) | 107183 | 100.000 | 91.88 |
| | 11 1,1-Dichloroethene | 96 | 1.917 | 1.917 | (0.459) | 175350 | 50.0000 | 50.07 |
| | 15 Iodomethane | 142 | 2.030 | 2.030 | (0.485) | 520678 | 100.000 | 89.98 |
| | 16 Acrylonitrile | 53 | 2.536 | 2.536 | (0.606) | 133306 | 100.000 | 93.89 |
| | 17 Methylene Chloride | 84 | 2.307 | 2.307 | (0.552) | 209008 | 50.0000 | 42.25 |
| | 18 Methyl tert-butyl ether | 73 | 2.536 | 2.536 | (0.606) | 567266 | 50.0000 | 46.41 |
| | 19 Carbon Disulfide | 76 | 2.071 | 2.071 | (0.495) | 977703 | 100.000 | 78.41 |
| | 20 trans-1,2-Dichloroethene | 96 | 2.532 | 2.532 | (0.606) | 197559 | 50.0000 | 47.14 |
| | 21 Vinyl Acetate | 43 | 2.997 | 2.997 | (0.717) | 1183357 | 100.000 | 105.81 |
| | 22 1,1-Dichloroethane | 63 | 2.922 | 2.922 | (0.699) | 342642 | 50.0000 | 45.39 |
| | 24 2-Butanone | 43 | 3.578 | 3.578 | (0.856) | 133868 | 100.000 | 90.94 |
| | 26 2,2-Dichloropropane | 77 | 3.510 | 3.510 | (0.840) | 296960 | 50.0000 | 49.85 |
| | 27 cis-1,2-Dichloroethene | 96 | 3.525 | 3.525 | (0.843) | 219712 | 50.0000 | 45.47 |
| | 28 Chloroform | 83 | 3.908 | 3.908 | (0.935) | 389713 | 50.0000 | 47.96 |
| | 29 Bromochloromethane | 128 | 3.795 | 3.795 | (0.908) | 122169 | 50.0000 | 47.44 |
| $ | 30 Dibromofluoromethane | 113 | 4.095 | 4.095 | (0.979) | 203812 | 50.0000 | 51.03 |
| | 31 1,1,1-Trichloroethane | 97 | 4.080 | 4.080 | (0.976) | 318483 | 50.0000 | 48.50 |
| | 32 1,1-Dichloropropene | 75 | 4.279 | 4.279 | (0.862) | 284171 | 50.0000 | 48.46 |
| | 33 1,2-Dichloroethane | 62 | 4.552 | 4.552 | (0.917) | 307776 | 50.0000 | 52.37 |
| | 34 Carbon Tetrachloride | 117 | 4.264 | 4.264 | (0.859) | 269096 | 50.0000 | 47.71 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 4.470 | 4.470 | (1.069) | 222524 | 50.0000 | 51.63 |
| * | 36 1,4-Difluorobenzene | 114 | 4.965 | 4.965 | (1.000) | 699810 | 50.0000 | |
| | 37 Benzene | 78 | 4.511 | 4.511 | (0.909) | 867992 | 50.0000 | 48.21 |
| | 38 Trichloroethene | 130 | 5.205 | 5.205 | (1.048) | 236018 | 50.0000 | 47.55 |
| | 39 Bromodichloromethane | 83 | 5.722 | 5.722 | (1.153) | 305333 | 50.0000 | 47.95 |
| | 41 2-Chloroethylvinyl ether | 63 | 6.048 | 6.048 | (1.218) | 140577 | 100.000 | 81.58 |
| | 42 1,2-Dichloropropane | 63 | 5.433 | 5.433 | (1.094) | 230638 | 50.0000 | 48.81 |
| | 44 Dibromomethane | 93 | 5.553 | 5.553 | (1.119) | 146188 | 50.0000 | 49.28 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.325 | 6.325 | (0.825) | 403295 | 100.000 | 93.14 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.153 | 6.153 | (1.239) | 361698 | 50.0000 | 46.06 |
| * | 47 Chlorobenzene-d5 | 117 | 7.667 | 7.667 | (1.000) | 670279 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.385 | 6.385 | (0.833) | 805179 | 50.0000 | 47.51 |
| | 50 Toluene | 91 | 6.445 | 6.445 | (0.841) | 944157 | 50.0000 | 47.98 |
| | 51 trans-1,3-Dichloropropene | 75 | 6.678 | 6.678 | (1.345) | 329306 | 50.0000 | 50.13 |
| | 52 2-Hexanone | 43 | 7.086 | 7.086 | (0.924) | 283441 | 100.000 | 98.00 |
| | 53 1,1,2-Trichloroethane | 83 | 6.835 | 6.835 | (0.891) | 180280 | 50.0000 | 47.02 |
| | 54 1,3-Dichloropropane | 76 | 6.978 | 6.978 | (0.910) | 374510 | 50.0000 | 48.31 |
| | 55 Dibromochloromethane | 129 | 7.173 | 7.173 | (0.935) | 260516 | 50.0000 | 47.95 |
| | 56 Tetrachloroethene | 164 | 6.925 | 6.925 | (0.903) | 181681 | 50.0000 | 44.89 |
| | 57 1,2-Dibromoethane | 107 | 7.259 | 7.259 | (0.947) | 231303 | 50.0000 | 47.20 |
| | 58 1-Chlorohexane | 55 | 7.694 | 7.694 | (1.550) | 200820 | 50.0000 | 47.18 |
| | 59 Chlorobenzene | 112 | 7.694 | 7.694 | (1.003) | 646326 | 50.0000 | 48.00 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 7.772 | 7.772 | (1.014) | 236273 | 50.0000 | 47.06 |
| | 61 Ethylbenzene | 106 | 7.799 | 7.799 | (1.017) | 326626 | 50.0000 | 47.08 |
| | 62 m,p-Xylenes | 106 | 7.904 | 7.904 | (1.031) | 832517 | 100.000 | 97.31 |
| | 63 o-Xylene | 106 | 8.241 | 8.241 | (1.075) | 404871 | 50.0000 | 47.42 |
| | 64 Styrene | 104 | 8.256 | 8.256 | (1.077) | 698327 | 50.0000 | 49.66 |
| | 66 Bromoform | 173 | 8.406 | 8.406 | (1.096) | 181394 | 50.0000 | 47.89 |
| | 67 Isopropylbenzene | 105 | 8.560 | 8.560 | (1.116) | 989640 | 50.0000 | 46.90 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 68 | 1,1,2,2-Tetrachloroethane | 83 | 8.837 | 8.837 (0.915) | 306683 | 50.0000 | 44.67 |
| $ | 69 | 4-Bromofluorobenzene | 95 | 8.687 | 8.687 (1.133) | 350674 | 50.0000 | 53.62 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 9.662 | 9.662 | (1.000) | 390372 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 8.863 | 8.863 | (0.917) | 257028 | 50.0000 | 52.21 |
| | 73 n-Propylbenzene | 91 | 8.908 | 8.908 | (0.922) | 1194264 | 50.0000 | 46.49 |
| | 74 Bromobenzene | 156 | 8.803 | 8.803 | (0.911) | 287082 | 50.0000 | 45.12 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.066 | 9.066 | (0.938) | 873883 | 50.0000 | 46.36 |
| | 76 2-Chlorotoluene | 91 | 8.972 | 8.972 | (0.929) | 739286 | 50.0000 | 45.31 |
| | 77 4-Chlorotoluene | 91 | 9.069 | 9.069 | (0.939) | 866200 | 50.0000 | 47.60 |
| | 78 tert-Butylbenzene | 119 | 9.332 | 9.332 | (0.966) | 712331 | 50.0000 | 45.36 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.377 | 9.377 | (0.971) | 890761 | 50.0000 | 46.83 |
| | 81 sec-Butylbenzene | 105 | 9.519 | 9.519 | (0.985) | 1007566 | 50.0000 | 45.49 |
| | 82 p-Isopropyltoluene | 119 | 9.647 | 9.647 | (0.998) | 904953 | 50.0000 | 46.66 |
| | 83 1,3-Dichlorobenzene | 146 | 9.602 | 9.602 | (0.994) | 523758 | 50.0000 | 46.23 |
| | 84 1,4-Dichlorobenzene | 146 | 9.680 | 9.680 | (1.002) | 553481 | 50.0000 | 45.64 |
| | 87 n-Butylbenzene | 91 | 9.992 | 9.992 | (1.034) | 813992 | 50.0000 | 49.28 |
| | 88 1,2-Dichlorobenzene | 146 | 9.992 | 9.992 | (1.034) | 527308 | 50.0000 | 46.91 |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 10.655 | 10.655 | (1.103) | 51927 | 50.0000 | 46.37 |
| | 90 1,2,4-Trichlorobenzene | 180 | 11.334 | 11.334 | (1.173) | 373688 | 50.0000 | 47.78 |
| | 91 Hexachlorobutadiene | 225 | 11.476 | 11.476 | (1.188) | 160032 | 50.0000 | 45.59 |
| | 92 Naphthalene | 128 | 11.540 | 11.540 | (1.194) | 840935 | 50.0000 | 47.77 |
| | 93 1,2,3-Trichlorobenzene | 180 | 11.738 | 11.738 | (1.215) | 346268 | 50.0000 | 48.12 |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 417271 | 100.000 | (a) |
| | 141 Cyclohexane | 56 | 4.121 | 4.121 | (0.986) | 287815 | 50.0000 | 50.48 |
| | 138 Freon TF | 101 | 1.917 | 1.917 | (0.459) | 169040 | 50.0000 | 54.22 |
| | 147 Methylcyclohexane | 55 | 5.381 | 5.381 | (1.084) | 482880 | 50.0000 | 49.37 |
| | 146 Methyl Acetate | 43 | 2.232 | 2.232 | (0.534) | 125628 | 50.0000 | 47.45 |
| | 148 Tert-Butyl alcohol | 59 | 2.427 | 2.427 | (0.580) | 377615 | 1000.00 | 822.15 |
| | 149 Isopropyl Alcohol | 45 | 2.093 | 2.093 | (0.501) | 203995 | 1000.00 | 804.64 |

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\voa6_i\X230619_b\X061916_D
Date : 19-JUN-2023 15:54
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6_i
Operator: PC
Column diameter: 0.18

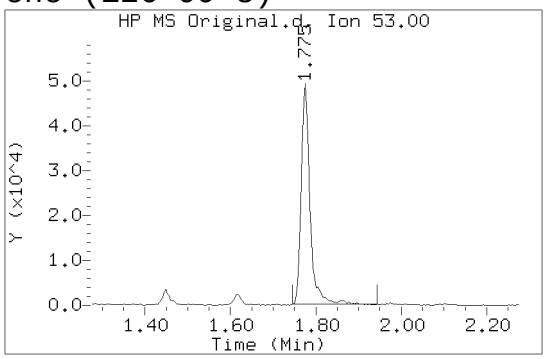
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Inj Date : 19-JUN-2023 15:54
InstruID : voa6.i
LabSampID : CCV-END

## Chloroprene (126-99-8)

Reason Code:

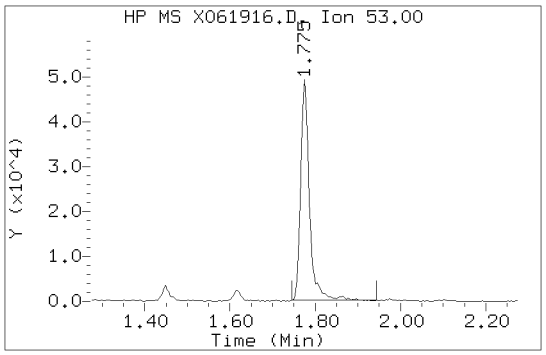
BEFORE

MASS
53
AREA
71947
HEIGHT
49133
23-Jun-2023
17:24
linh
pham



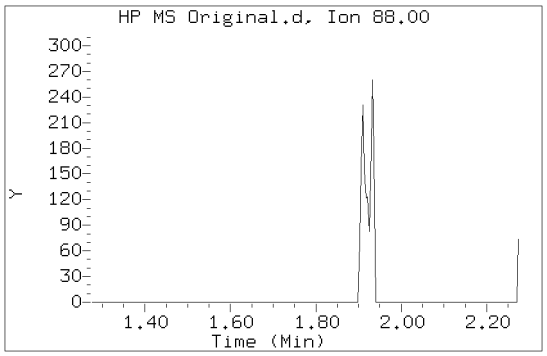

AFTER

MASS
53
AREA
71947
HEIGHT
49133
23-Jun-2023
17:24
linh
pham



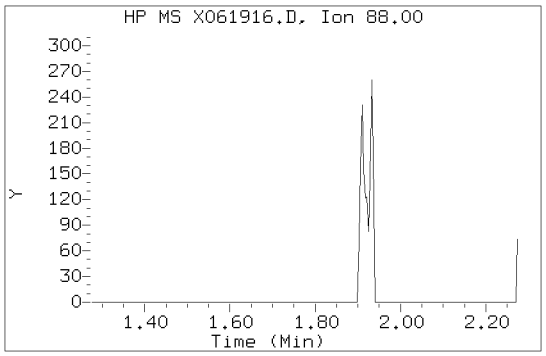

BEFORE

MASS
88
AREA
0
HEIGHT
0
23-Jun-2023
17:24
linh
pham




AFTER

MASS
88
AREA
0
HEIGHT
0
23-Jun-2023
17:24
linh
pham

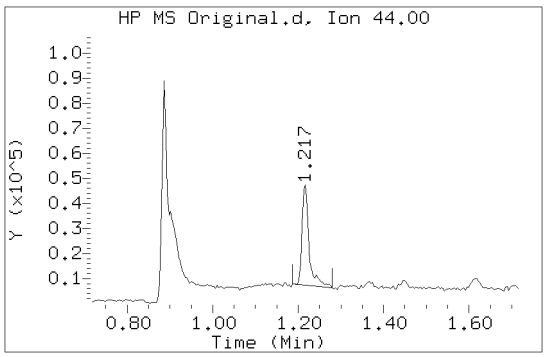



## Acetaldehyde (75-07-0)

Reason Code:

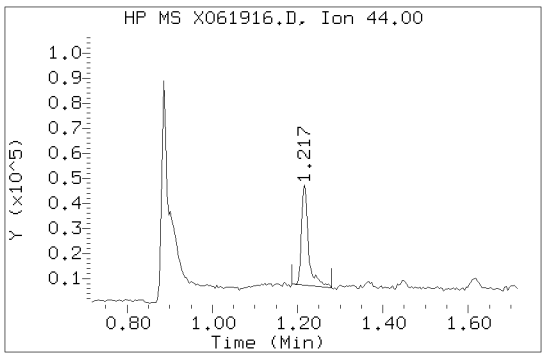
BEFORE

MASS
44
AREA
47360
HEIGHT
39877
23-Jun-2023
17:24
linh
pham



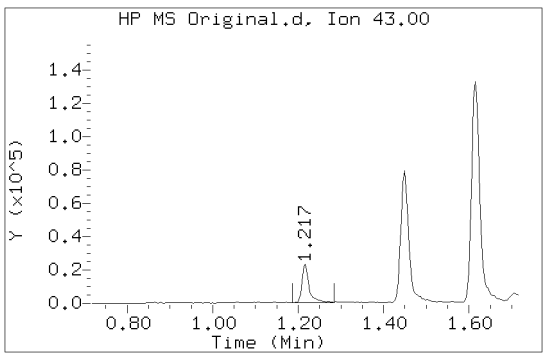

AFTER

MASS
44
AREA
47360
HEIGHT
39877
23-Jun-2023
17:24
linh
pham



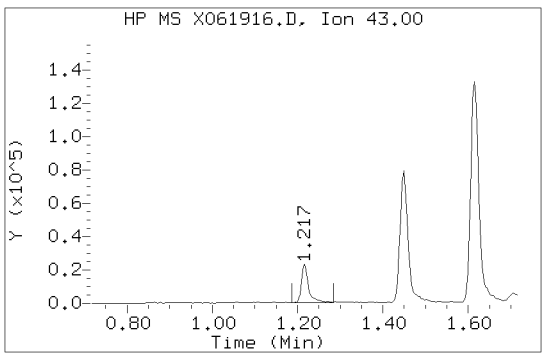

BEFORE

MASS
43
AREA
28056
HEIGHT
23049
23-Jun-2023
17:24
linh
pham




AFTER

MASS
43
AREA
28056
HEIGHT
23049
23-Jun-2023
17:24
linh
pham



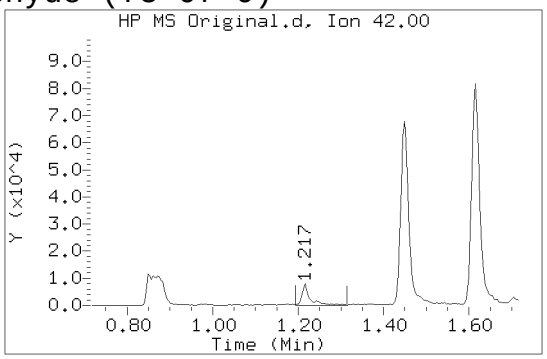
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230619.b\X061916.D
Inj Date : 19-JUN-2023 15:54
InstruID : voa6.i
LabSampID : CCV-END

Acetaldehyde (75-07-0)

Reason Code:

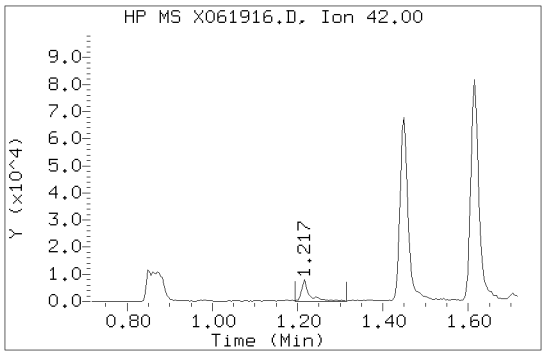
BEFORE

MASS
42
AREA
10126
HEIGHT
7844
23-Jun-2023
17:24
linh
pham




AFTER

MASS
42
AREA
10126
HEIGHT
7844
23-Jun-2023
17:24
linh
pham



# HS23060999-MSSEMI-SW8270SIM

ALS WO# HS23060999

01195765

right solutions.
right partner.

Form 1

# Organic Analysis Data Sheet

## Semi-Volatiles by EPA 8270SIM

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

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

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

## Semi-Volatiles by EPA 8270SIM

HS23060999-02

**18CPTMW03SW_061323**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/13/23 07:35 | 06/14/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile | PrepBatch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ug/L | 0.097 | | 0.010 | 0.010 | 0.010 | 1 | 06/19/23 15:20 | SV-6_439307 | 14.D | 195305 |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

## Semi-Volatiles by EPA 8270SIM

HS23060999-03

**120_061323**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/13/23 09:30 | 06/14/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile | PrepBatch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ug/L | 120 | | 10 | 10 | 10 | 1000 | 06/19/23 17:45 | SV-6_439307 | 22.D | 195305 |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

## Semi-Volatiles by EPA 8270SIM

HS23060999-04

**MW14_061323**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/13/23 10:20 | 06/14/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile | PrepBatch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ug/L | 10 | | 1.0 | 1.0 | 1.0 | 100 | 06/19/23 18:03 | SV-6_439307 | 23.D | 195305 |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

## Semi-Volatiles by EPA 8270SIM

HS23060999-05

**18CPTMW22DW_061323**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/13/23 11:10 | 06/14/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile | PrepBatch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ug/L | 0.010 | U | 0.010 | 0.010 | 0.010 | 1 | 06/19/23 16:14 | SV-6_439307 | 17.D | 195305 |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23060999**

## Semi-Volatiles by EPA 8270SIM

HS23060999-06

**18CPTMW22R_061323**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/13/23 11:50 | 06/14/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile | PrepBatch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ug/L | 0.22 | | 0.010 | 0.010 | 0.010 | 1 | 06/19/23 16:32 | SV-6_439307 | 18.D | 195305 |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23060999**

## Semi-Volatiles by EPA 8270SIM

HS23060999-07

**18CPTMW22SW_061323**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/13/23 12:30 | 06/14/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile | PrepBatch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ug/L | 0.010 | U | 0.010 | 0.010 | 0.010 | 1 | 06/19/23 16:50 | SV-6_439307 | 19.D | 195305 |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23060999**

## Semi-Volatiles by EPA 8270SIM

MBLK-195305

**MBLK-195305**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| NA | NA | Aqueous | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile | PrepBatch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ug/L | 0.030 | U | 0.010 | 0.030 | 0.030 | 1 | 06/19/23 12:38 | SV-6_439307 | 05.D | 195305 |

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Form 2

# System Monitoring Compound Recovery

## Semi-Volatiles by EPA 8270SIM

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

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 /Site18/24

Workorder: HS23060999

RunID: SV-6-439307

## Semi-Volatiles by EPA 8270SIM

| HS23060999-02 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 18CPTMW03SW_061323 | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 0.09 | 0.08 | 112 | | 40-140 |
| 4-Terphenyl-d14 | 0.09 | 0.08 | 112 | | 40-140 |
| Nitrobenzene-d5 | 0.077 | 0.08 | 95.8 | | 40-140 |

| HS23060999-03 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 120_061323 | 06/19/23 | %REC | 1000 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 0 | 0.08 | 0 | | 40-140 |
| 4-Terphenyl-d14 | 0 | 0.08 | 0 | | 40-140 |
| Nitrobenzene-d5 | 0 | 0.08 | 0 | | 40-140 |

| HS23060999-04 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| MW14_061323 | 06/19/23 | %REC | 100 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 1 | 0.08 | 1260 | | 40-140 |
| 4-Terphenyl-d14 | 0 | 0.08 | 0 | | 40-140 |
| Nitrobenzene-d5 | 0 | 0.08 | 0 | | 40-140 |

| HS23060999-05 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 18CPTMW22DW_061323 | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 0.088 | 0.08 | 110 | | 40-140 |
| 4-Terphenyl-d14 | 0.09 | 0.08 | 112 | | 40-140 |
| Nitrobenzene-d5 | 0.076 | 0.08 | 94.5 | | 40-140 |

# Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP /Site18/24

Workorder: HS23060999

RunID: SV-6-439307

## Semi-Volatiles by EPA 8270SIM

| HS23060999-06 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 18CPTMW22R_061323 | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 0.087 | 0.08 | 109 | | 40-140 |
| 4-Terphenyl-d14 | 0.082 | 0.08 | 103 | | 40-140 |
| Nitrobenzene-d5 | 0.087 | 0.08 | 108 | | 40-140 |

| HS23060999-07 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 18CPTMW22SW_061323 | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 0.09 | 0.08 | 113 | | 40-140 |
| 4-Terphenyl-d14 | 0.088 | 0.08 | 110 | | 40-140 |
| Nitrobenzene-d5 | 0.077 | 0.08 | 96.0 | | 40-140 |

| LCS1-195305 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| LCS1-195305 | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 0.08727 | 0.08 | 109 | | 40-140 |
| 4-Terphenyl-d14 | 0.08357 | 0.08 | 104 | | 40-140 |
| Nitrobenzene-d5 | 0.07742 | 0.08 | 96.8 | | 40-140 |

| LCSD1-195305 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| LCSD1-195305 | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 0.08954 | 0.08 | 112 | | 40-140 |
| 4-Terphenyl-d14 | 0.08768 | 0.08 | 110 | | 40-140 |
| Nitrobenzene-d5 | 0.07887 | 0.08 | 98.6 | | 40-140 |

# Form 2 - System Monitoring Compound Recovery

| | | | |
|---|---|---|---|
| **Client** | Bhate Environmental Associates, Inc. | Workorder | |
| **Project** | LHAAP /Site18/24 | **HS23060999** | |

RunID

## Semi-Volatiles by EPA 8270SIM

SV-6-439307

| MBLK-195305 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| MBLK-195305 | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 0.08836 | 0.08 | 110 | | 40-140 |
| 4-Terphenyl-d14 | 0.08665 | 0.08 | 108 | | 40-140 |
| Nitrobenzene-d5 | 0.0821 | 0.08 | 103 | | 40-140 |

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Form 3B

# Laboratory Control Sample Recovery

## Semi-Volatiles by EPA 8270SIM

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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# Form 3B - Laboratory Control Sample Recovery

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

SAMPLENUM
LCS1-195305

## Semi-Volatiles by EPA 8270SIM

| SV-6_439307 | | | | LCS1-195305 | | | LCSD1-195305 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spike Matrix | Aqueous | | Run Date | 06/19/23 | | | 06/19/23 | | | | | |
| Result Units | ug/L | | Run Time | 12:56 | | | 13:14 | | | | | |
| Prep Method | SW3510 | | Data File | 06.D | | | 07.D | | | | | |
| Prep Date | 06/16/23 | Prep Batch 195305 | Prep Amt | 1000 mL | | | 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 | 0.07743 | 97 | | 0.07928 | 99.0 | | 20 | 2.35 | |

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

# Form 3B - Laboratory Control Sample Recovery

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

SAMPLENUM
LCSD1-195305

## Semi-Volatiles by EPA 8270SIM

| SV-6_439307 | | | | LCSD1-195305 | | |
|---|---|---|---|---|---|---|
| Spike Matrix | Aqueous | | Run Date | 06/19/23 | | |
| Result Units | ug/L | | Run Time | 13:14 | | |
| Prep Method | SW3510 | | Data File | 07.D | | |
| Prep Date | 06/16/23 | Prep Batch 195305 | Prep Amt | 1000 mL | | |

| Analyte | %Recovery Limits | Spike Added | LCS Result | %R | Q |
|---|---|---|---|---|---|
| 1,4-Dioxane | 40-140 | 0.08 | 0.07928 | 99 | |

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 4

# Method Blank Summary

## Semi-Volatiles by EPA 8270SIM

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

ALS Environmental–Houston Laboratory
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# Form 4 - Method Blank Summary

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

## Semi-Volatiles by EPA 8270SIM

| Client Sample ID | Type | Lab Sample ID | File ID | Date Analyzed | Run ID |
|---|---|---|---|---|---|
| METHOD BLANK | MBLK | MBLK-195305 | 05.D | 06/19/23 12:38 | SV-6_439307 |
| LCS1-195305 | LCS | LCS1-195305 | 06.D | 06/19/23 12:56 | SV-6_439307 |
| LCSD1-195305 | LCSD | LCSD1-195305 | 07.D | 06/19/23 13:14 | SV-6_439307 |
| 18CPTMW03SW_061323 | SAMP | HS23060999-02 | 14.D | 06/19/23 15:20 | SV-6_439307 |
| 18CPTMW22DW_061323 | SAMP | HS23060999-05 | 17.D | 06/19/23 16:14 | SV-6_439307 |
| 18CPTMW22R_061323 | SAMP | HS23060999-06 | 18.D | 06/19/23 16:32 | SV-6_439307 |
| 18CPTMW22SW_061323 | SAMP | HS23060999-07 | 19.D | 06/19/23 16:50 | SV-6_439307 |
| 120_061323 | SAMP | HS23060999-03 | 22.D | 06/19/23 17:45 | SV-6_439307 |
| MW14_061323 | SAMP | HS23060999-04 | 23.D | 06/19/23 18:03 | SV-6_439307 |

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Form 5

# Instrument Performance Check

# Semi-Volatiles by EPA 8270SIM

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

ALS Environmental–Houston Laboratory
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# Form 5 - Instrument Performance Check

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23060999**

RunID SV-6-439923

## Semi-Volatiles by EPA 8270SIM

Tune File 01.D 06/16/23 6/16/2023

| m / e | Ion Abundance Criterion | %RA |
|---|---|---|
| 51 | 30.0 - 80.0% of mass 198 | 40.3 (40.3) |
| 68 | Less than 2.0% of mass 69 | 0.5 (1.44) 1 |
| 69 | Mass 69 RA | 32.2 (32.2) |
| 70 | Less than 2.0% of mass 69 | 0.2 (0.502) 1 |
| 127 | 25.0 - 75.0% of mass 198 | 38.5 (38.5) |
| 197 | Less than 1.0% of mass 198 | 0.5 (0.46) |
| 198 | Base peak, 100% RA | 100 (83.3) |
| 199 | 5.0 - 9.0% of mass 198 | 6.5 (6.46) |
| 275 | 10.0 - 30.0% of mass 198 | 25.8 (25.8) |
| 365 | Greater than 0.75% of mass 198 | 3.4 (3.43) |
| 441 | Present, but less than mass 443 | 17.7 (76.4) |
| 442 | 40.0 - 110.0% of mass 198 | 120.1 (120) |
| 443 | 15.0 - 24.0% of mass 442 | 23.2 (19.3) 2 |

%RA - Percent Relative Abundance

This check applies to the following analyses

| | Lab Samp ID | Type | Date Analyzed | Lab File ID | Sample ID |
|---|---|---|---|---|---|
| 1 | 14DXICAL- | ICAL1 | 6/16/2023 | 04 | 14DXICAL-0.01 |
| 2 | 14DXICAL- | ICAL2 | 6/16/2023 | 05 | 14DXICAL-0.03 |
| 3 | 14DXICAL- | ICAL3 | 6/16/2023 | 06 | 14DXICAL-0.05 |
| 4 | 14DXICAL- | ICAL4 | 6/16/2023 | 07 | 14DXICAL-0.08 |
| 5 | 14DXICAL- | ICAL6 | 6/16/2023 | 09 | 14DXICAL-0.15 |
| 6 | 14DXICAL-0.1 | ICAL5 | 6/16/2023 | 12 | 14DXICAL-0.1 |
| 7 | 14DXICAL-0.5 | ICAL8 | 6/16/2023 | 14 | 14DXICAL-0.5 |
| 8 | 14DXICAL-0.2 | ICAL7 | 6/16/2023 | 15 | 14DXICAL-0.2 |
| 9 | 14DXICV-0.08 | ICV | 6/16/2023 | 16 | 14DXICV-0.08 |

# Form 5 - Instrument Performance Check

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

RunID
SV-6-439307

## Semi-Volatiles by EPA 8270SIM

**Tune File** 01.D 06/19/23 6/19/2023

| m / e | Ion Abundance Criterion | %RA |
|---|---|---|
| 51 | 30.0 - 80.0% of mass 198 | 45.6 (45.65) |
| 68 | Less than 2.0% of mass 69 | 0.4 (1.27) 1 |
| 69 | Mass 69 RA | 34.9 (34.93) |
| 70 | Less than 2.0% of mass 69 | 0.2 (0.53) 1 |
| 127 | 25.0 - 75.0% of mass 198 | 39.7 (39.72) |
| 197 | Less than 1.0% of mass 198 | 0.6 (0.64) |
| 198 | Base peak, 100% RA | 100 (85.16) |
| 199 | 5.0 - 9.0% of mass 198 | 6 (6.02) |
| 275 | 10.0 - 30.0% of mass 198 | 25.8 (25.82) |
| 365 | Greater than 0.75% of mass 198 | 3.8 (3.84) |
| 441 | Present, but less than mass 443 | 17.7 (77.07) |
| 442 | 40.0 - 110.0% of mass 198 | 117.4 (117.42) |
| 443 | 15.0 - 24.0% of mass 442 | 22.9 (19.53) 2 |

%RA - Percent Relative Abundance

This check applies to the following analyses

| | Lab Samp ID | Type | Date Analyzed | Lab File ID | Sample ID |
|---|---|---|---|---|---|
| 1 | 14DX-0.08 | CCV | 6/19/2023 | 03 | 14DX-0.08 |
| 2 | MBLK-195305 | MBLK | 6/19/2023 | 05 | MBLK-195305 |
| 3 | LCS1-195305 | LCS | 6/19/2023 | 06 | LCS1-195305 |
| 4 | LCSD1- | LCSD | 6/19/2023 | 07 | LCSD1-195305 |
| 5 | HS23060999- | SAMP | 6/19/2023 | 14 | 18CPTMW03SW_061323 |
| 6 | HS23060999- | SAMP | 6/19/2023 | 17 | 18CPTMW22DW_061323 |
| 7 | HS23060999- | SAMP | 6/19/2023 | 18 | 18CPTMW22R_061323 |
| 8 | HS23060999- | SAMP | 6/19/2023 | 19 | 18CPTMW22SW_061323 |
| 9 | HS23060999- | SAMP | 6/19/2023 | 22 | 120_061323 |
| 10 | HS23060999- | SAMP | 6/19/2023 | 23 | MW14_061323 |
| 11 | 14DXCCV- | CCV | 6/19/2023 | 24 | 14DXCCV-END |
| 12 | MBLK-195305 | MBLK | 6/21/2023 | 26 | MBLK-195305 |
| 13 | LCS-195305 | LCS | 6/21/2023 | 27 | LCS-195305 |
| 14 | LCSD-195305 | LCSD | 6/21/2023 | 28 | LCSD-195305 |

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Form 6

# Initial Calibration Data

# Semi-Volatiles by EPA 8270SIM

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

**RunID** SV-6_439923

## Semi-Volatiles by EPA 8270SIM

**ICAL Start Date** 10-MAR-2022 1025
**ICAL End Date** 16-JUN-2023 1556

**Calibration file names**
**Level 1** ..target\chem\sv6.i\230616.b\04.d
**Level 2** ..target\chem\sv6.i\230616.b\05.d
**Level 3** ..target\chem\sv6.i\230616.b\06.d
**Level 4** ..target\chem\sv6.i\230616.b\07.d
**Level 5** ..target\chem\sv6.i\230616.b\12.d
**Level 6** ..target\chem\sv6.i\230616.b\09.d

| Compound | 0.20000<br>Level 7<br>0.01000<br>Level 1 | 0.50000<br>Level 8<br>0.03000<br>Level 2 | 0.05000<br>Level 3 | 0.08000<br>Level 4 | 0.10000<br>Level 5 | 0.15000<br>Level 6 | RRF | %RSD | Q |
|---|---|---|---|---|---|---|---|---|---|
| **1,4-Dioxane** | 0.30124<br>0.40150 | 0.32659<br>0.31193 | 0.32643 | 0.34940 | 0.35892 | 0.33837 | 0.33930 | 9.241 | |
| **2-Fluorophenol** | 0.40150<br>NE<br>NE | 0.31193<br>NE<br>NE | NE | NE | NE | NE | 0.33930<br>NE | 9.241<br>NE | |
| **13 Phenol-d6** | NE<br>NE | NE<br>NE | NE | NE | NE | NE | NE | NE | |
| **33 Nitrobenzene-d5** | 0.28832<br>0.34832 | 0.28035<br>0.27609 | 0.30204 | 0.32108 | 0.30808 | 0.30634 | 0.30383 | 7.735 | |
| **69 2-Fluorobiphenyl** | 0.98985<br>1.25227 | 0.97067<br>0.94386 | 0.97876 | 1.06873 | 0.97017 | 1.00640 | 1.02259 | 9.764 | |
| **105 2,4,6-Tribromophenol** | NE<br>NE | NE<br>NE | NE | NE | NE | NE | NE | NE | |
| **158 4-Terphenyl-d14** | 0.60104<br>1.00267 | 0.68127<br>0.75942 | 0.64541 | 0.74244 | 0.75380 | 0.71602 | 0.73776 | 16.347 | |

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)

## Semi-Volatiles by EPA 8270SIM

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

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

# Initial Calibration Verification (ICV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

RunID SV-6_439923

## Semi-Volatiles by EPA 8270SIM

**Sample Matrix** LIQUID
**Lab Smp Id** 14DXICV-0.08
**Level** LOW
**Fraction** SV
**Client Smp ID** 14DXICV-0.08
**Operator** LG

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| 1,4-Dioxane | 0.08000 | 0.07070 | 88.38 | 40-140 | |
| Nitrobenzene-d5 | 0.08000 | 0.07086 | 88.57 | 40-140 | |
| 2-Fluorobiphenyl | 0.08000 | 0.08036 | 100.45 | 40-140 | |
| 4-Terphenyl-d14 | 0.08000 | 0.08379 | 104.74 | 40-140 | |

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Form 7

# Continuing Calibration Verification (CCV)

## Semi-Volatiles by EPA 8270SIM

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
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www.alsglobal.com

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

RunID SV-6_439307

## Semi-Volatiles by EPA 8270SIM

**Instrument ID** SV6.I
**Lab File ID** 03.D
**Analysis Type** WATER
**Lab Sample ID** 14DX-0.08

**Injection Date** 19-JUN-2023 11:32
**ICAL Date(s)** 10-MAR-2022 16-JUN-2023
**ICAL Times** 10:25 15:56
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF0.080 | Min RRF | %D / %DRIFT | Max %D / %DRIFT | CURVE TYPE | Q |
|---|---|---|---|---|---|---|---|
| 33 Nitrobenzene-d5 | 0.30383 | 0.27890 | 0.010 | -8.20338 | 20.0 | Averaged | |
| 69 2-Fluorobiphenyl | 1.02259 | 1.07247 | 0.010 | 4.87772 | 20.0 | Averaged | |
| 158 4-Terphenyl-d14 | 0.73776 | 0.69516 | 0.010 | -5.77464 | 20.0 | Averaged | |
| 1,4-Dioxane | 0.33930 | 0.33246 | 0.010 | -2.01642 | 20.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23060999

RunID SV-6_439307

## Semi-Volatiles by EPA 8270SIM

**Instrument ID** SV6.I
**Lab File ID** 24.D
**Analysis Type** WATER
**Lab Sample ID** 14DXCCV-CLOSING Quant Type

**Injection Date** 19-JUN-2023 18:21
**ICAL Date(s)** 10-MAR-2022 16-JUN-2023
**ICAL Times** 10:25 15:56
ISTD

| Compound | $\overline{RRF}$ / Conc | RF0.080 | Min RRF | %D / %DRIFT | Max %D / %DRIFT | CURVE TYPE | Q |
|---|---|---|---|---|---|---|---|
| 33 Nitrobenzene-d5 | 0.30383 | 0.29583 | 0.010 | -2.63391 | 50.0 | Averaged | |
| 69 2-Fluorobiphenyl | 1.02259 | 1.04971 | 0.010 | 2.65200 | 50.0 | Averaged | |
| 158 4-Terphenyl-d14 | 0.73776 | 0.77907 | 0.010 | 5.59919 | 50.0 | Averaged | |
| 1,4-Dioxane | 0.33930 | 0.35175 | 0.010 | 3.67080 | 50.0 | Averaged | |

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Form 12

# Preparation Log

## Semi-VolatilesEPA 3510

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

ALS Environmental–Houston Laboratory
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# Form 12 - Preparation Log

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

RunID
195305

## Semi-VolatilesEPA 3510

**Prep Batch** 195305 **Prep Date** 06/16/23

| | Matrix | Type | Client Sample ID | Lab Sample ID | Initial Amt (mL) | Final Amt (mL) |
|---|---|---|---|---|---|---|
| 1 | Aqueous | MBLK | MBLK-195305 | MBLK-195305 | 1000 | 1 |
| 2 | Aqueous | LCS | LCS1-195305 | LCS1-195305 | 1000 | 1 |
| 3 | Aqueous | LCSD | LCSD1-195305 | LCSD1-195305 | 1000 | 1 |
| 4 | Groundwater | SAMP | 18CPTMW03SW_061323 | HS23060999-02 | 1000 | 1 |
| 5 | Groundwater | SAMP | 120_061323 | HS23060999-03 | 1000 | 1 |
| 6 | Groundwater | SAMP | MW14_061323 | HS23060999-04 | 1000 | 1 |
| 7 | Groundwater | SAMP | 18CPTMW22DW_061323 | HS23060999-05 | 1000 | 1 |
| 8 | Groundwater | SAMP | 18CPTMW22R_061323 | HS23060999-06 | 1000 | 1 |
| 9 | Groundwater | SAMP | 18CPTMW22SW_061323 | HS23060999-07 | 1000 | 1 |

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right partner.

# Analysis Run Log

## Semi-Volatiles by EPA 8270SIM

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

# Form 13 - Analysis Run Log

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

RunID
SV-6-439923

## Semi-Volatiles by EPA 8270SIM

**Run ID** SV-6_439923 **Start Date** 06/16/23 **EndDate** 06/16/23

| Inj. Time | Client Sample ID | Type | Lab Sample ID | File ID | Analysis Date | DF |
|---|---|---|---|---|---|---|
| 09:28 | DFTPP | TUNE | DFTPP | 01.D | 06/16/23 | 1 |
| 11:08 | 14DXICAL-0.01 | ICAL1 | 14DXICAL-0.01 | 04.D | 06/16/23 | 1 |
| 11:26 | 14DXICAL-0.03 | ICAL2 | 14DXICAL-0.03 | 05.D | 06/16/23 | 1 |
| 11:44 | 14DXICAL-0.05 | ICAL3 | 14DXICAL-0.05 | 06.D | 06/16/23 | 1 |
| 12:02 | 14DXICAL-0.08 | ICAL4 | 14DXICAL-0.08 | 07.D | 06/16/23 | 1 |
| 12:38 | 14DXICAL-0.15 | ICAL6 | 14DXICAL-0.15 | 09.D | 06/16/23 | 1 |
| 14:15 | 14DXICAL-0.1 | ICAL5 | 14DXICAL-0.1 | 12.D | 06/16/23 | 1 |
| 14:51 | 14DXICAL-0.5 | ICAL8 | 14DXICAL-0.5 | 14.D | 06/16/23 | 1 |
| 15:56 | 14DXICAL-0.2 | ICAL7 | 14DXICAL-0.2 | 15.D | 06/16/23 | 1 |
| 16:22 | 14DXICV-0.08 | ICV | 14DXICV-0.08 | 16.D | 06/16/23 | 1 |

# Form 13 - Analysis Run Log

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23060999**

RunID
SV-6-439307

## Semi-Volatiles by EPA 8270SIM

**Run ID** SV-6_439307 **Start Date** 06/19/23 **EndDate** 06/22/23

| Inj. Time | Client Sample ID | Type | Lab Sample ID | File ID | Analysis Date | DF |
|---|---|---|---|---|---|---|
| 10:35 | DFTPP | TUNE | DFTPP | 01.D | 06/19/23 | 1 |
| 11:32 | 14DX-0.08 | CCV | 14DX-0.08 | 03.D | 06/19/23 | 1 |
| 12:38 | MBLK-195305 | MBLK | MBLK-195305 | 05.D | 06/19/23 | 1 |
| 12:56 | LCS1-195305 | LCS | LCS1-195305 | 06.D | 06/19/23 | 1 |
| 13:14 | LCSD1-195305 | LCSD | LCSD1-195305 | 07.D | 06/19/23 | 1 |
| 13:32 | HS23060739-01 | SAMP | ZZZZZZZZZZ | 08.D | 06/19/23 | 1 |
| 13:50 | HS23060739-02 | SAMP | ZZZZZZZZZZ | 09.D | 06/19/23 | 1 |
| 14:08 | HS23060739-03 | SAMP | ZZZZZZZZZZ | 10.D | 06/19/23 | 1 |
| 14:26 | HS23060739-04 | SAMP | ZZZZZZZZZZ | 11.D | 06/19/23 | 1 |
| 14:44 | HS23060739-05 | SAMP | ZZZZZZZZZZ | 12.D | 06/19/23 | 1 |
| 15:02 | HS23060739-06 | SAMP | ZZZZZZZZZZ | 13.D | 06/19/23 | 1 |
| 15:20 | HS23060999-02 | SAMP | 18CPTMW03SW_0613 | 14.D | 06/19/23 | 1 |
| 16:14 | HS23060999-05 | SAMP | 18CPTMW22DW_0613 | 17.D | 06/19/23 | 1 |
| 16:32 | HS23060999-06 | SAMP | 18CPTMW22R_061323 | 18.D | 06/19/23 | 1 |
| 16:50 | HS23060999-07 | SAMP | 18CPTMW22SW_0613 | 19.D | 06/19/23 | 1 |
| 17:45 | HS23060999-03 | SAMP | 120_061323 | 22.D | 06/19/23 | 1000 |
| 18:03 | HS23060999-04 | SAMP | MW14_061323 | 23.D | 06/19/23 | 100 |
| 19:52 | HS23060883-01 | SAMP | ZZZZZZZZZZ | 23.D | 06/22/23 | 10 |
| 18:21 | 14DXCCV-END | CCV | 14DXCCV-END | 24.D | 06/19/23 | 1 |
| 18:57 | HS23060714-01 | SAMP | ZZZZZZZZZZ | 26.D | 06/19/23 | 1 |
| 19:39 | MBLK-195305 | MBLK | MBLK-195305 | 26.D | 06/21/23 | 1 |
| 19:15 | HS23060714-02 | SAMP | ZZZZZZZZZZ | 27.D | 06/19/23 | 1 |
| 19:59 | LCS-195305 | LCS | LCS-195305 | 27.D | 06/21/23 | 1 |
| 19:33 | HS23060714-03 | SAMP | ZZZZZZZZZZ | 28.D | 06/19/23 | 1 |
| 20:19 | LCSD-195305 | LCSD | LCSD-195305 | 28.D | 06/21/23 | 1 |
| 19:51 | HS23060714-04 | SAMP | ZZZZZZZZZZ | 29.D | 06/19/23 | 1 |
| 20:39 | HS23060883-01 | SAMP | ZZZZZZZZZZ | 29.D | 06/21/23 | 1 |
| 20:09 | HS23060714-05 | SAMP | ZZZZZZZZZZ | 30.D | 06/19/23 | 1 |
| 21:00 | HS23060883-02 | SAMP | ZZZZZZZZZZ | 30.D | 06/21/23 | 1 |

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right partner.

# Raw Data SV 6 439923

# Semi-Volatiles by EPA 8270SIM

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Data File: \\nahstws005\Target\chem\SV6.i\230616.b\01.D Page 1
Report Date: 16-Jun-2023 09:41

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\SV6.i\230616.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 16-JUN-2023 09:28
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230616.b\DFTPP.m
Meth Date : 14-Mar-2023 15:59 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: NAHSTW7015

| 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 | | |
| 5.009 | 6.357 | -1.348 | 198 | 573312 | | | 0.00- 100.00 | 83.28 |
| 5.009 | 6.357 | -1.348 | 51 | 231176 | | | 10.00- 80.00 | 40.32 |
| 5.009 | 6.357 | -1.348 | 68 | 2654 | | | 0.00- 2.00 | 1.44 |
| 5.009 | 6.357 | -1.348 | 69 | 184729 | | | 0.00- 0.00 | 32.22 |
| 5.009 | 6.357 | -1.348 | 70 | 927 | | | 0.00- 2.00 | 0.50 |
| 5.009 | 6.357 | -1.348 | 127 | 220864 | | | 10.00- 80.00 | 38.52 |
| 5.009 | 6.357 | -1.348 | 197 | 2637 | | | 0.00- 2.00 | 0.46 |
| 5.009 | 6.357 | -1.348 | 199 | 37040 | | | 5.00- 9.00 | 6.46 |
| 5.009 | 6.357 | -1.348 | 275 | 147776 | | | 10.00- 60.00 | 25.78 |
| 5.009 | 6.357 | -1.348 | 365 | 19688 | | | 1.00- 100.00 | 3.43 |
| 5.009 | 6.357 | -1.348 | 441 | 101568 | | | 0.01- 99.99 | 76.45 |
| 5.009 | 6.357 | -1.348 | 442 | 688448 | | | 50.00- 150.00 | 120.08 |
| 5.009 | 6.357 | -1.348 | 443 | 132864 | | | 15.00- 24.00 | 19.30 |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 198 | 40.32 |
| 68 | Less than 2.00% of mass 69 | 0.46 ( 1.44) |
| 69 | Mass 69 relative abundance | 32.22 |
| 70 | Less than 2.00% of mass 69 | 0.16 ( 0.50) |
| 127 | 10.00 - 80.00% of mass 198 | 38.52 |
| 197 | Less than 2.00% of mass 198 | 0.46 |
| 199 | 5.00 - 9.00% of mass 198 | 6.46 |
| 275 | 10.00 - 60.00% of mass 198 | 25.78 |
| 365 | 1.00 - 100.00% of mass 198 | 3.43 |
| 441 | Present, but less than mass 443 | 17.72 |
| 442 | 50.00 - 150.00% of mass 198 | 120.08 |
| 443 | 15.00 - 24.00% of mass 442 | 23.17 ( 19.30) |

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 453: 5.010 min. (SUB)
Location of Maximum: 442.10
Number of points: 316

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 37.10 | 691 | 128.10 | 16159 | 209.00 | 1513 | 297.00 | 5492 |
| 38.00 | 1909 | 129.00 | 84336 | 210.10 | 2201 | 298.00 | 365 |
| 39.10 | 12523 | 130.00 | 6769 | 211.00 | 6102 | 301.00 | 640 |
| 40.00 | 181 | 131.00 | 1444 | 213.00 | 401 | 302.00 | 602 |
| 40.90 | 276 | 132.10 | 794 | 214.00 | 192 | 303.10 | 4693 |
| 45.00 | 312 | 133.10 | 248 | 215.00 | 1503 | 304.00 | 1179 |
| 49.00 | 1051 | 134.00 | 2156 | 216.00 | 2932 | 304.90 | 175 |
| 50.10 | 53200 | 135.00 | 6519 | 217.00 | 39448 | 308.00 | 557 |
| 51.10 | 231168 | 136.00 | 2427 | 218.00 | 4584 | 309.00 | 385 |
| 52.10 | 12049 | 137.10 | 3257 | 219.00 | 408 | 310.00 | 461 |
| 53.00 | 444 | 138.10 | 689 | 221.10 | 31488 | 311.10 | 249 |
| 55.00 | 841 | 139.00 | 436 | 221.70 | 5812 | 311.90 | 184 |
| 56.00 | 6699 | 140.00 | 864 | 223.00 | 9377 | 312.90 | 383 |
| 57.00 | 16176 | 141.00 | 10733 | 224.10 | 87680 | 314.00 | 1739 |
| 58.00 | 734 | 142.00 | 3754 | 225.10 | 21984 | 315.00 | 3954 |
| 61.00 | 2603 | 143.00 | 2343 | 226.00 | 2230 | 316.10 | 2781 |
| 62.00 | 2746 | 144.00 | 787 | 227.00 | 33024 | 317.00 | 633 |
| 63.00 | 8959 | 145.00 | 657 | 228.00 | 4457 | 319.90 | 232 |
| 64.00 | 1134 | 146.10 | 1823 | 229.00 | 7608 | 321.00 | 1268 |
| 65.10 | 3754 | 147.00 | 5380 | 230.00 | 950 | 322.00 | 605 |
| 66.20 | 170 | 148.00 | 12478 | 231.00 | 3201 | 323.10 | 14516 |
| 66.90 | 176 | 149.00 | 2115 | 232.00 | 487 | 324.00 | 2985 |
| 68.00 | 2654 | 150.00 | 633 | 233.00 | 674 | 325.00 | 302 |
| 69.00 | 184704 | 151.60 | 2531 | 234.00 | 1838 | 326.00 | 247 |
| 70.00 | 927 | 152.00 | 808 | 235.00 | 2392 | 327.00 | 2521 |
| 71.10 | 180 | 153.00 | 3358 | 236.00 | 1374 | 328.00 | 1205 |
| 73.00 | 1217 | 154.00 | 2616 | 237.00 | 2292 | 329.00 | 338 |
| 74.00 | 17520 | 155.00 | 6177 | 238.00 | 338 | 332.00 | 1141 |
| 75.00 | 28192 | 156.10 | 9411 | 239.00 | 1122 | 333.00 | 1368 |
| 76.10 | 9960 | 157.00 | 2001 | 240.00 | 936 | 334.10 | 8776 |
| 77.10 | 218880 | 158.00 | 2113 | 241.00 | 1871 | 335.00 | 2203 |
| 78.10 | 13466 | 159.00 | 1675 | 242.00 | 4359 | 336.00 | 187 |
| 79.00 | 12046 | 160.10 | 3244 | 243.10 | 4502 | 339.10 | 380 |
| 80.00 | 9791 | 161.00 | 5606 | 244.10 | 67632 | 339.90 | 281 |
| 81.00 | 14216 | 162.00 | 1730 | 245.10 | 8922 | 341.00 | 1623 |
| 82.00 | 3653 | 163.00 | 400 | 246.00 | 11263 | 342.10 | 476 |
| 83.00 | 3381 | 164.00 | 727 | 247.00 | 2407 | 346.00 | 2738 |
| 84.00 | 184 | 165.00 | 4330 | 248.10 | 663 | 347.00 | 596 |
| 85.00 | 2227 | 166.00 | 3419 | 249.00 | 2399 | 350.90 | 220 |
| 86.00 | 3237 | 167.00 | 24512 | 250.00 | 534 | 352.10 | 4359 |
| 87.00 | 1991 | 168.00 | 9507 | 251.00 | 626 | 353.00 | 3284 |
| 88.00 | 676 | 169.10 | 1791 | 252.00 | 592 | 354.10 | 4838 |
| 89.00 | 341 | 170.00 | 842 | 253.00 | 1532 | 355.00 | 896 |
| 91.00 | 2912 | 170.90 | 1000 | 254.00 | 2136 | 359.00 | 467 |
| 92.00 | 3110 | 172.00 | 2269 | 255.00 | 354304 | 365.00 | 19688 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 93.00 | 21304 | 173.10 | 2549 | 256.00 | 51136 | 366.00 | 2752 |
| 94.00 | 1218 | 174.00 | 5175 | 257.00 | 3611 | 370.10 | 513 |
| 95.00 | 484 | 175.00 | 9799 | 258.00 | 18768 | 371.00 | 1054 |
| 96.00 | 924 | 176.00 | 2683 | 259.00 | 3038 | 372.00 | 8081 |
| 97.10 | 374 | 177.00 | 3904 | 260.00 | 415 | 373.10 | 1766 |
| 98.00 | 16345 | 178.00 | 1303 | 261.00 | 547 | 374.00 | 321 |
| 99.00 | 11441 | 179.00 | 17472 | 263.00 | 216 | 377.00 | 254 |
| 100.00 | 1118 | 180.00 | 12918 | 264.00 | 482 | 383.00 | 2280 |
| 101.00 | 8931 | 181.00 | 6121 | 265.00 | 7562 | 384.00 | 529 |
| 101.90 | 481 | 182.10 | 939 | 266.00 | 1247 | 385.00 | 199 |
| 103.00 | 2466 | 183.00 | 711 | 267.90 | 202 | 390.10 | 1132 |
| 104.00 | 4787 | 184.00 | 1198 | 270.00 | 419 | 391.00 | 640 |
| 105.00 | 4856 | 185.10 | 9374 | 270.90 | 595 | 392.00 | 528 |
| 106.00 | 1473 | 186.10 | 74288 | 272.00 | 859 | 401.00 | 506 |
| 107.00 | 67952 | 187.10 | 20504 | 273.00 | 9955 | 402.00 | 3420 |
| 108.00 | 9807 | 188.00 | 2068 | 274.00 | 26688 | 403.00 | 5432 |
| 109.00 | 1838 | 189.00 | 3837 | 275.00 | 147776 | 404.00 | 1627 |
| 110.00 | 123544 | 189.90 | 682 | 276.10 | 18968 | 405.00 | 236 |
| 111.00 | 17696 | 191.00 | 2262 | 277.00 | 11809 | 415.00 | 201 |
| 112.00 | 1819 | 192.00 | 6230 | 278.00 | 1774 | 421.00 | 5131 |
| 112.90 | 638 | 193.10 | 7049 | 279.00 | 482 | 422.00 | 3941 |
| 114.00 | 179 | 194.00 | 1444 | 280.90 | 159 | 423.00 | 33192 |
| 114.80 | 238 | 195.00 | 1036 | 282.00 | 357 | 424.00 | 5796 |
| 116.00 | 3334 | 196.10 | 15513 | 283.00 | 1383 | 425.00 | 632 |
| 117.00 | 50184 | 197.00 | 2637 | 284.00 | 975 | 434.00 | 155 |
| 118.10 | 3139 | 198.00 | 573312 | 285.00 | 2248 | 436.70 | 155 |
| 119.00 | 504 | 199.00 | 37040 | 286.10 | 556 | 441.10 | 101568 |
| 120.00 | 697 | 200.00 | 3218 | 289.00 | 393 | 442.10 | 688448 |
| 121.00 | 285 | 201.50 | 2802 | 290.00 | 552 | 443.10 | 132864 |
| 122.00 | 4036 | 203.00 | 3916 | 291.00 | 367 | 444.10 | 12072 |
| 123.10 | 5628 | 204.00 | 19400 | 291.90 | 558 | 445.00 | 733 |
| 124.00 | 2843 | 205.10 | 32656 | 293.00 | 2916 | | |
| 125.00 | 2735 | 206.10 | 146944 | 294.00 | 680 | | |
| 126.10 | 975 | 207.10 | 18016 | 295.00 | 908 | | |
| 127.00 | 220864 | 208.10 | 4201 | 296.00 | 40008 | | |

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Lab Smp Id: 14DXICAL-0.01 Client Smp ID: 14DXICAL-0.01
Inj Date : 16-JUN-2023 11:08
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:20 Cal File: 08.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.128 | 3.128 | (1.000) | 5079 | 0.10000 | (a) |
| * 45 Naphthalene-d8 | 136 | 4.220 | 4.220 | (1.000) | 17862 | 0.10000 | |
| $ 33 Nitrobenzene-d5 | 82 | 3.584 | 3.584 | (0.849) | 515 | 0.01000 | 0.009537(QM) |
| * 86 Acenaphthene-d10 | 164 | 5.883 | 5.883 | (1.000) | 10143 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 5.245 | 5.245 | (0.891) | 1004 | 0.01000 | 0.009665(M) |
| * 126 Phenanthrene-d10 | 188 | 7.322 | 7.322 | (1.000) | 20228 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 10.023 | 10.023 | (1.000) | 14841 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.909 | 8.909 | (0.889) | 892 | 0.01000 | 0.008235(M) |
| * 198 Perylene-d12 | 264 | 11.945 | 11.945 | (1.000) | 14498 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.486 | 1.486 | (0.475) | 153 | 0.01000 | 0.008943(aQM) |

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.

01195803

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D



Date : 16-JUN-2023 11:08

Client ID: 14DXICAL-0.01

Instrument: SV6.i

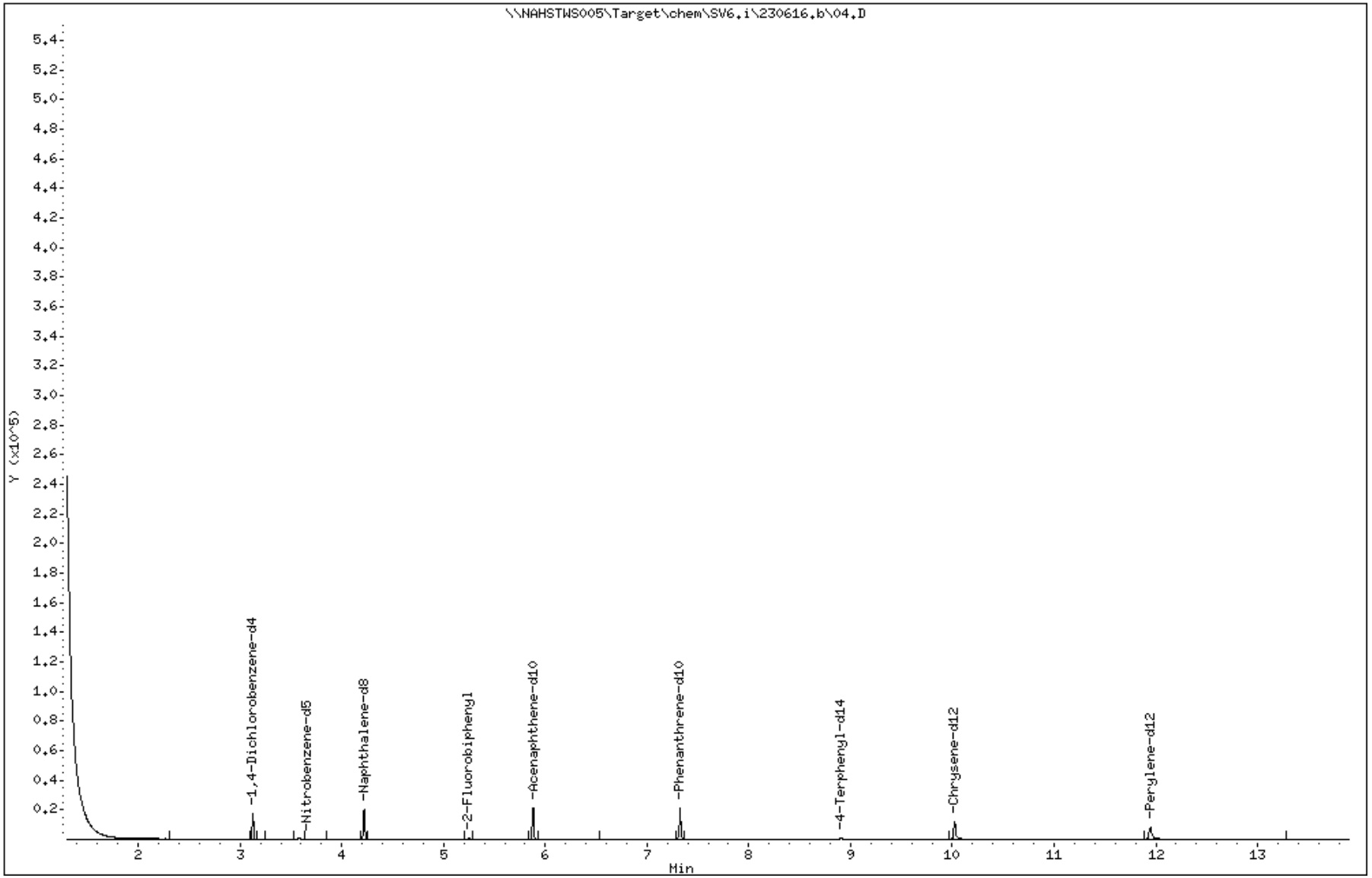
Sample Info: 14DXICAL-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



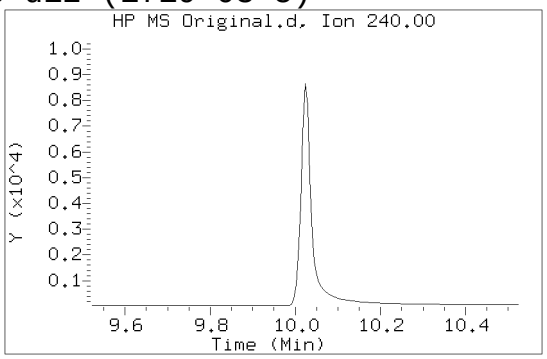
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

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

Reason Code:

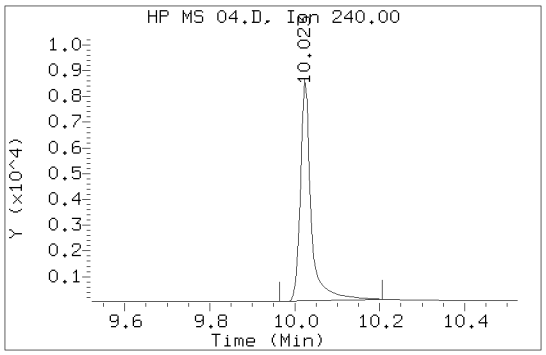
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



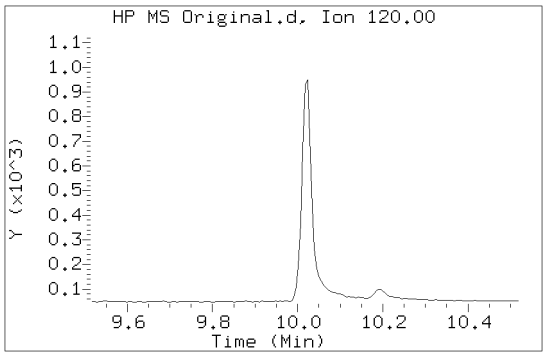

**AFTER**

MASS
240
AREA
14841
HEIGHT
8583
29-Jun-2023
14:26
ALSHS
Ser



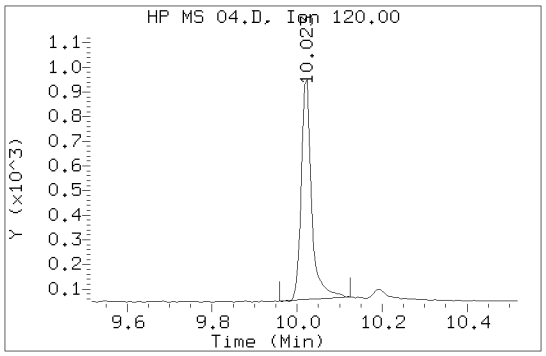

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



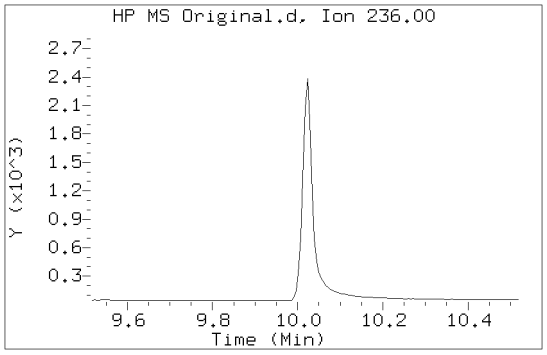

**AFTER**

MASS
120
AREA
1504
HEIGHT
891
29-Jun-2023
14:26
ALSHS
Ser



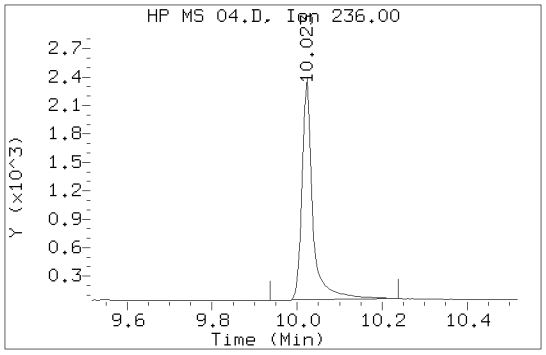

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server




**AFTER**

MASS
236
AREA
4047
HEIGHT
2330
29-Jun-2023
14:26
ALSHS
Ser

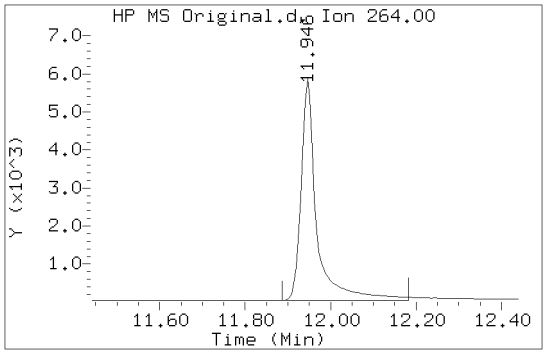



## Perylene-d12 (1520-96-3)

Reason Code:

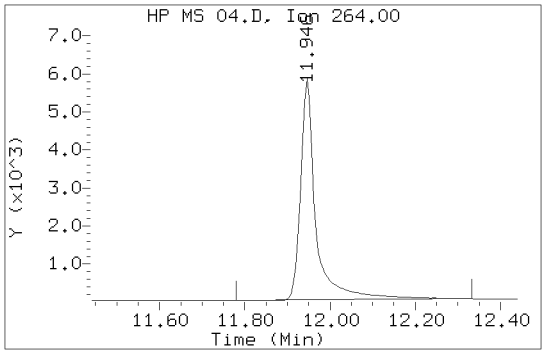
**BEFORE**

MASS
264
AREA
14674
HEIGHT
5826
16-Jun-2023
11:24
ALSHS
Server




**AFTER**

MASS
264
AREA
14498
HEIGHT
5814
29-Jun-2023
14:26
ALSHS
Ser



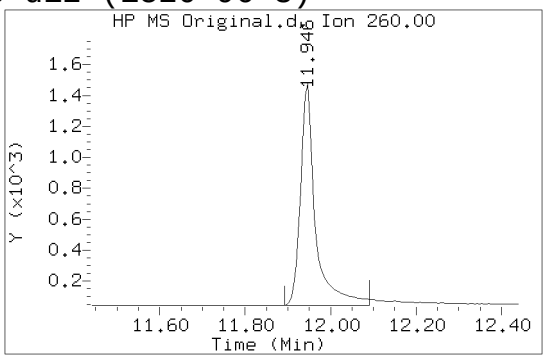
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

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

Reason Code:

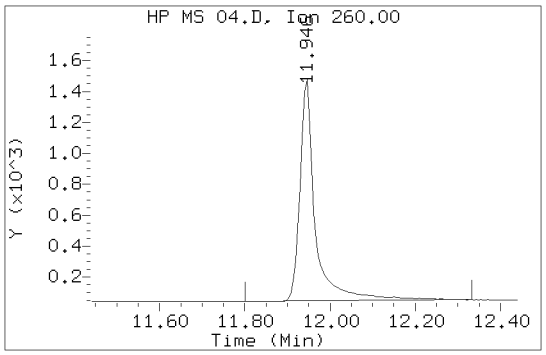
BEFORE

MASS
260
AREA
3461
HEIGHT
1431
16-Jun-2023
11:24
ALSHS
Server



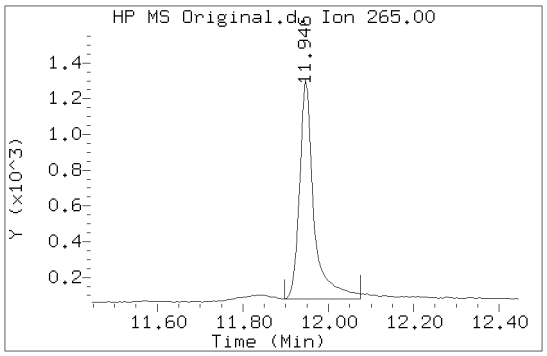

AFTER

MASS
260
AREA
3563
HEIGHT
1428
29-Jun-2023
14:26
ALSHS
Ser



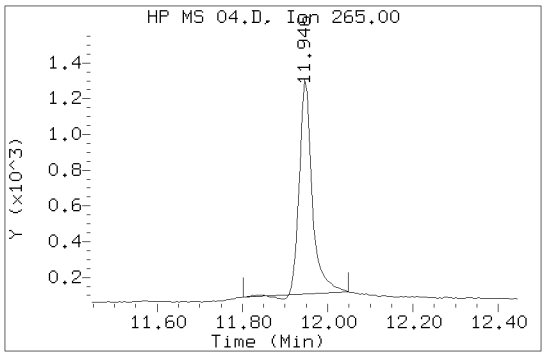

BEFORE

MASS
265
AREA
2841
HEIGHT
1225
16-Jun-2023
11:24
ALSHS
Server




AFTER

MASS
265
AREA
2485
HEIGHT
1196
29-Jun-2023
14:26
ALSHS
Ser

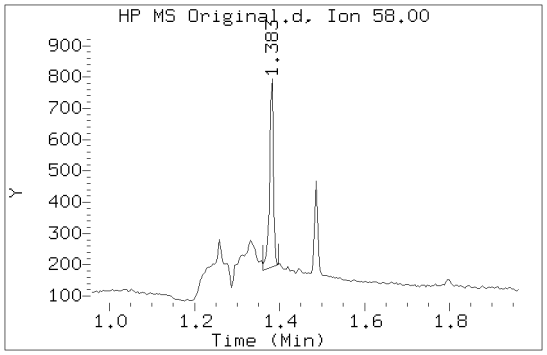



## 1,4-Dioxane ()

Reason Code:

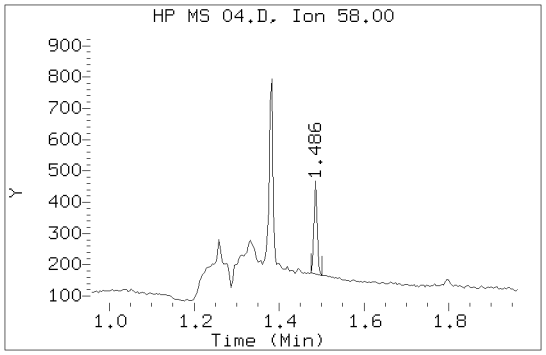
BEFORE

MASS
58
AREA
375
HEIGHT
599
16-Jun-2023
11:24
ALSHS
Server



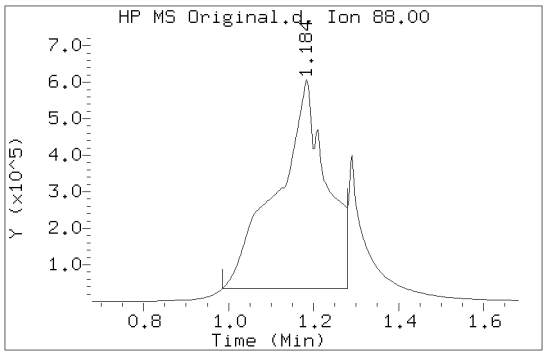

AFTER

MASS
58
AREA
153
HEIGHT
296
29-Jun-2023
14:26
ALSHS
Ser



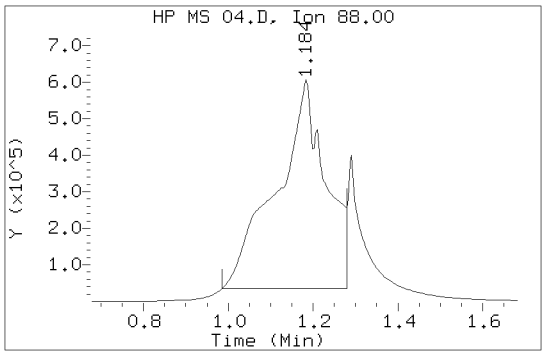

BEFORE

MASS
88
AREA
4618745
HEIGHT
572488
16-Jun-2023
11:24
ALSHS
Server




AFTER

MASS
88
AREA
4618745
HEIGHT
572488
29-Jun-2023
14:26
ALSHS
Ser



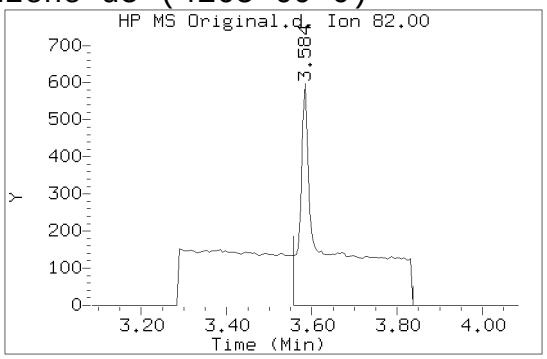
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

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

Reason Code:

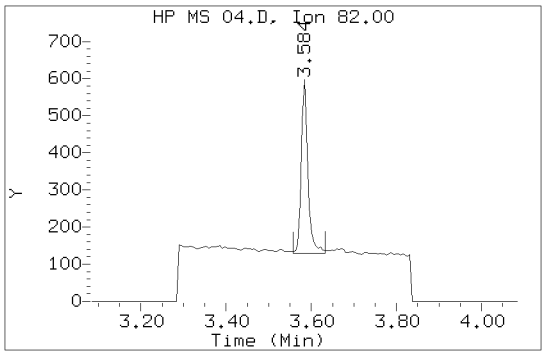
BEFORE

MASS
82
AREA
2695
HEIGHT
597
16-Jun-2023
11:24
ALSHS
Server



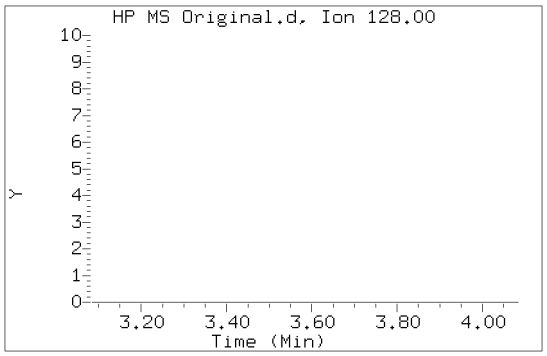

AFTER

MASS
82
AREA
515
HEIGHT
468
29-Jun-2023
14:26
ALSHS
Ser



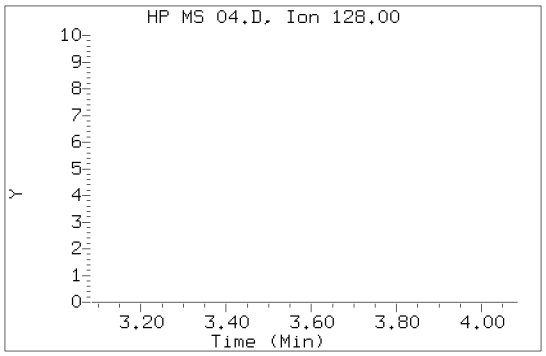

BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



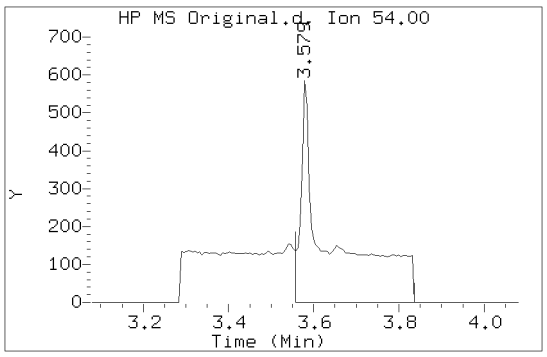

AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



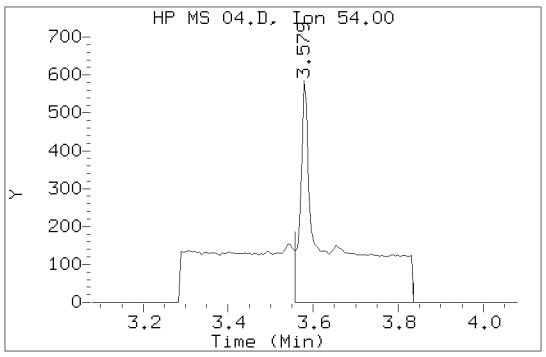

BEFORE

MASS
54
AREA
2634
HEIGHT
585
16-Jun-2023
11:24
ALSHS
Server




AFTER

MASS
54
AREA
2634
HEIGHT
585
29-Jun-2023
14:26
ALSHS
Ser

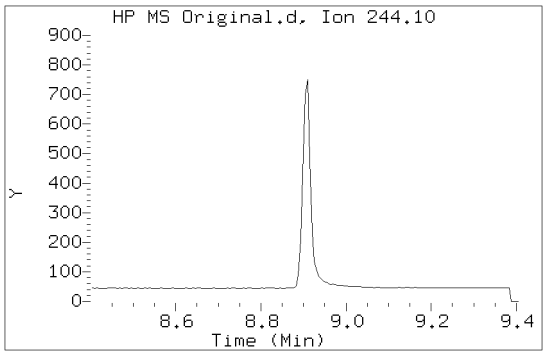



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

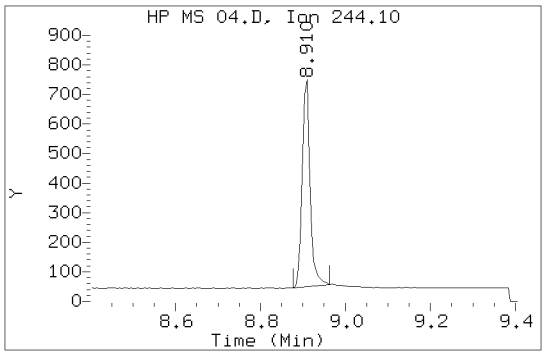
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server




AFTER

MASS
244.1
AREA
892
HEIGHT
699
29-Jun-2023
14:26
ALSHS
Ser

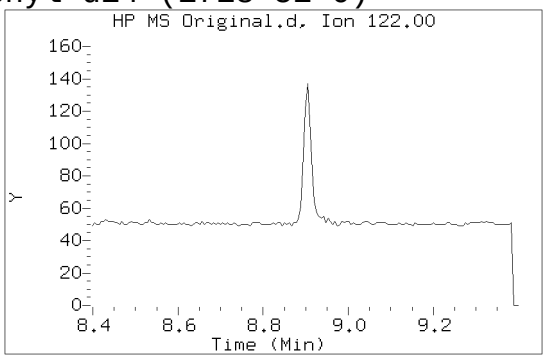


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

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

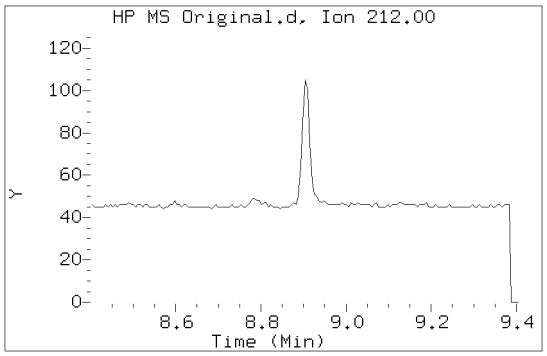
**BEFORE**

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server




**BEFORE**

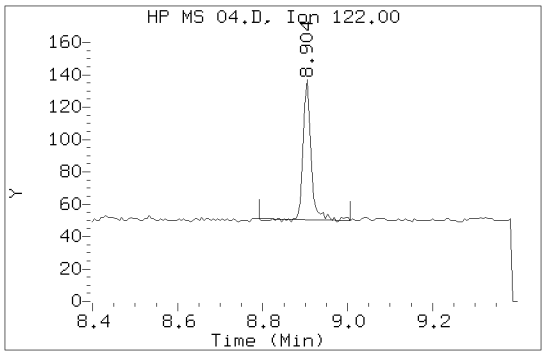
MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server




Reason Code:

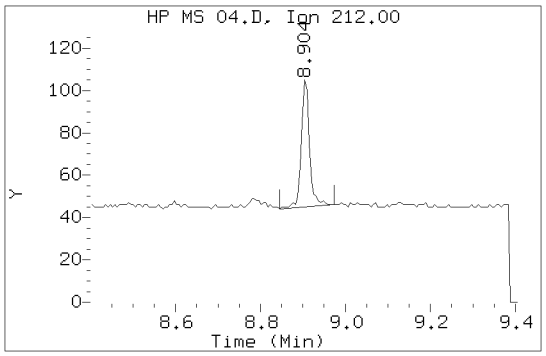
**AFTER**

MASS
122
AREA
109
HEIGHT
86
29-Jun-2023
14:26
ALSHS
Ser




**AFTER**

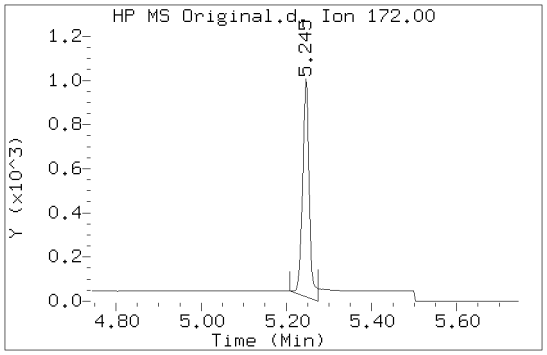
MASS
212
AREA
80
HEIGHT
60
29-Jun-2023
14:26
ALSHS
Ser




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

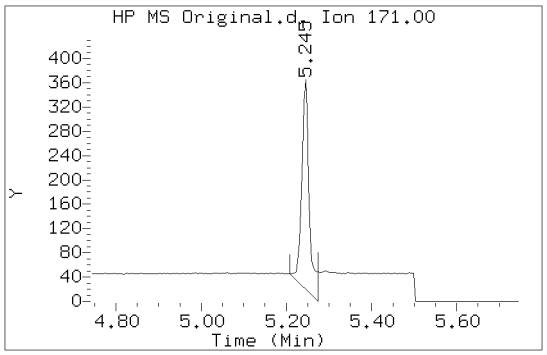
**BEFORE**

MASS
172
AREA
1093
HEIGHT
986
16-Jun-2023
11:24
ALSHS
Server




**BEFORE**

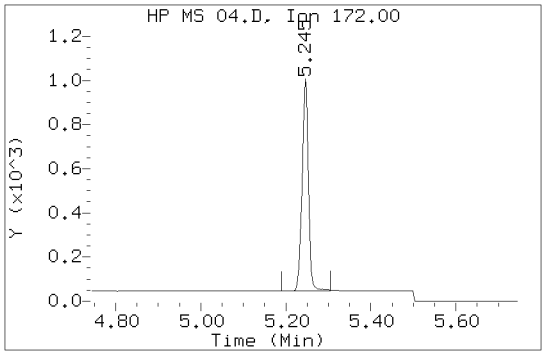
MASS
171
AREA
428
HEIGHT
345
16-Jun-2023
11:24
ALSHS
Server




Reason Code:

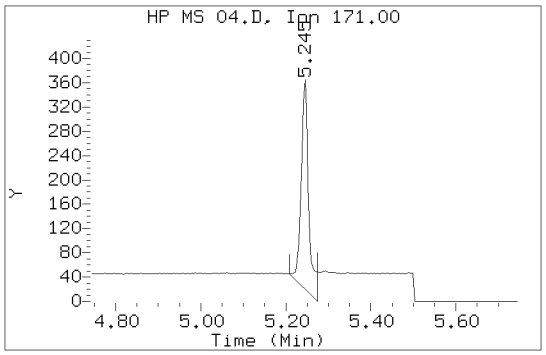
**AFTER**

MASS
172
AREA
1004
HEIGHT
960
29-Jun-2023
14:26
ALSHS
Ser




**AFTER**

MASS
171
AREA
428
HEIGHT
345
29-Jun-2023
14:26
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Lab Smp Id: 14DXICAL-0.03 Client Smp ID: 14DXICAL-0.03
Inj Date : 16-JUN-2023 11:26
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:08 Cal File: 04.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.128 | 3.128 | (1.000) | 4348 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 4.220 | 4.220 | (1.000) | 14672 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.584 | 3.584 | (0.849) | 1234 | 0.03000 | 0.02782(QM) |
| * 86 Acenaphthene-d10 | 164 | 5.883 | 5.883 | (1.000) | 8616 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 5.245 | 5.245 | (0.891) | 2509 | 0.03000 | 0.02843(M) |
| * 126 Phenanthrene-d10 | 188 | 7.322 | 7.322 | (1.000) | 16998 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 10.023 | 10.023 | (1.000) | 11821 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.904 | 8.904 | (0.888) | 2416 | 0.03000 | 0.02800(M) |
| * 198 Perylene-d12 | 264 | 11.940 | 11.940 | (1.000) | 10677 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.467 | 1.467 | (0.469) | 426 | 0.03000 | 0.02909(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.

01195809

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D



Date : 16-JUN-2023 11:26

Client ID: 14DXICAL-0.03

Instrument: SV6.i

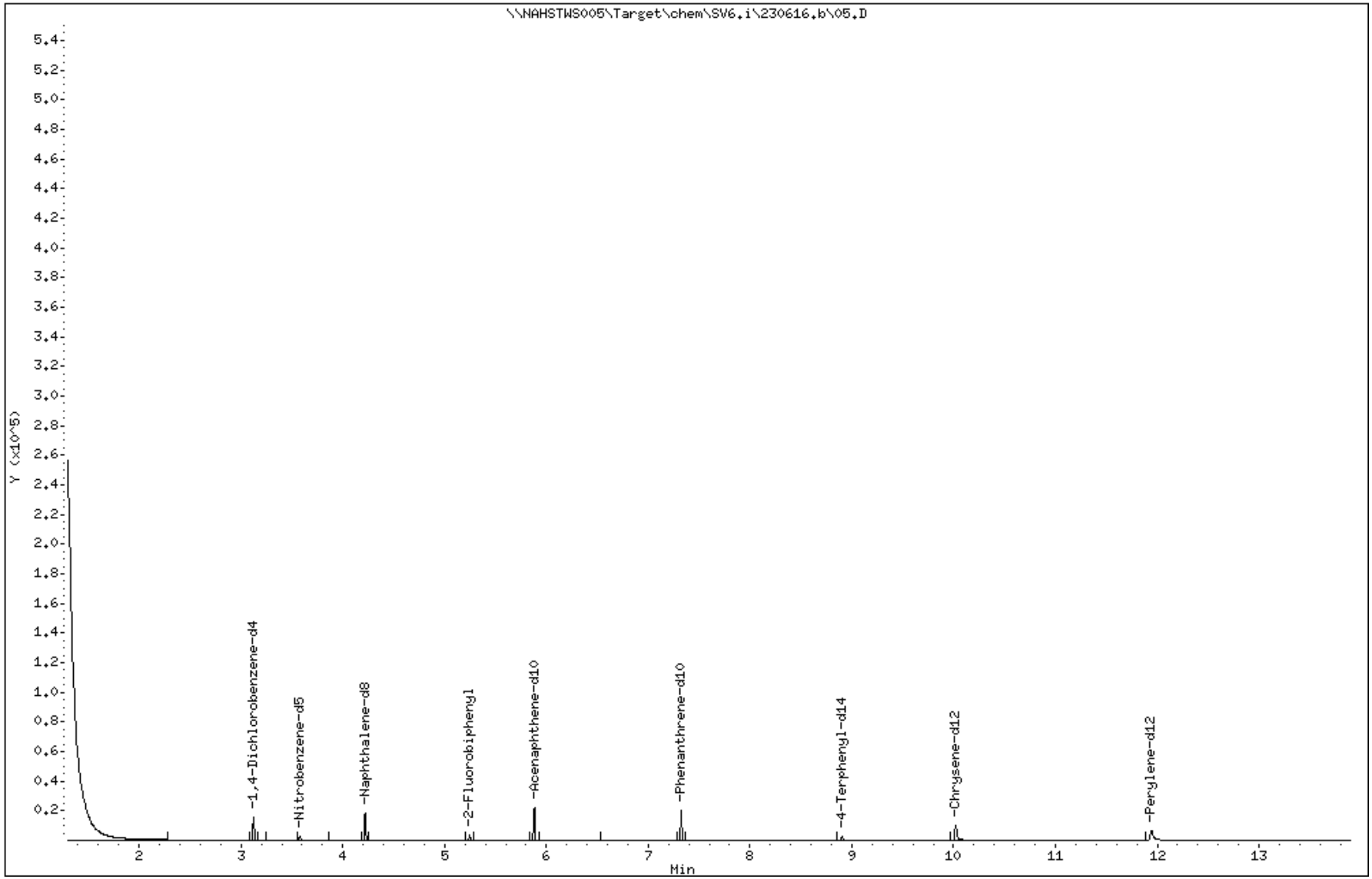
Sample Info: 14DXICAL-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



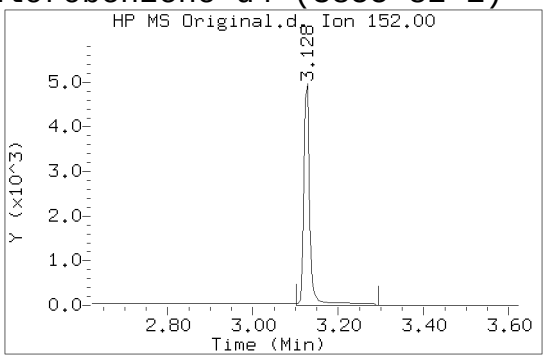
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

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

Reason Code:

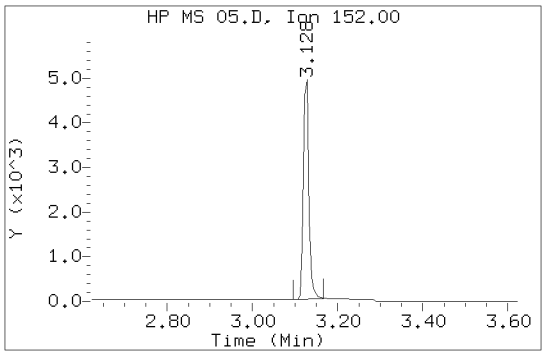
**BEFORE**

MASS
152
AREA
4935
HEIGHT
4966
16-Jun-2023
11:42
ALSHS
Server



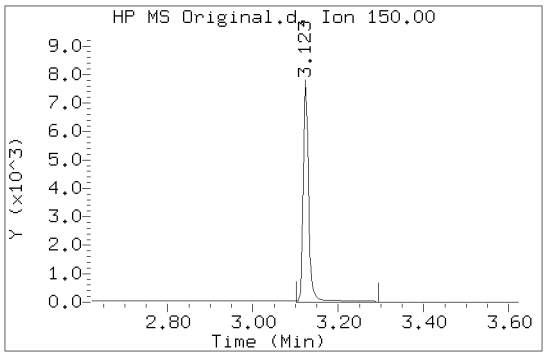

**AFTER**

MASS
152
AREA
4348
HEIGHT
4916
29-Jun-2023
14:26
ALSHS
Ser



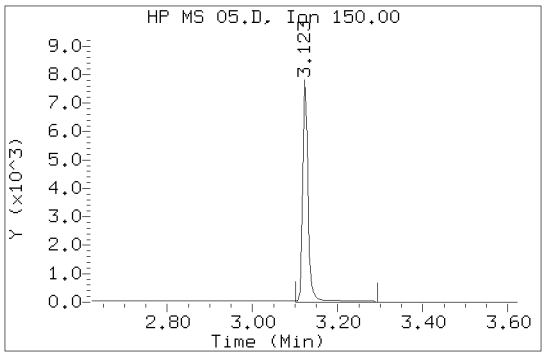

**BEFORE**

MASS
150
AREA
6954
HEIGHT
7812
16-Jun-2023
11:42
ALSHS
Server



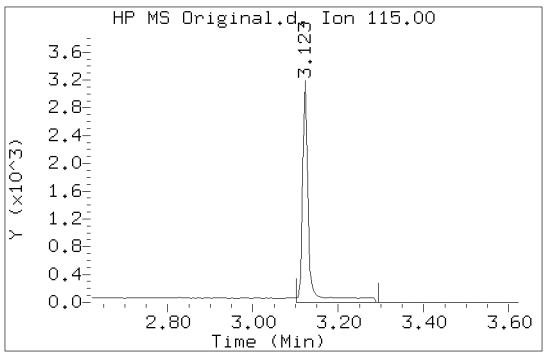

**AFTER**

MASS
150
AREA
6954
HEIGHT
7812
29-Jun-2023
14:26
ALSHS
Ser



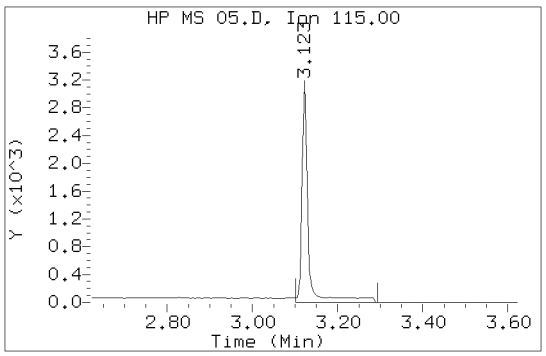

**BEFORE**

MASS
115
AREA
3189
HEIGHT
3190
16-Jun-2023
11:42
ALSHS
Server




**AFTER**

MASS
115
AREA
3189
HEIGHT
3190
29-Jun-2023
14:26
ALSHS
Ser

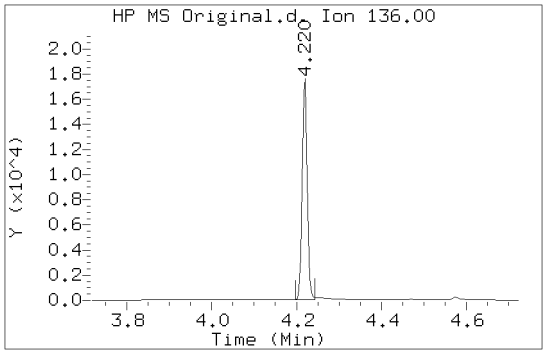



## Naphthalene-d8 (1146-65-2)

Reason Code:

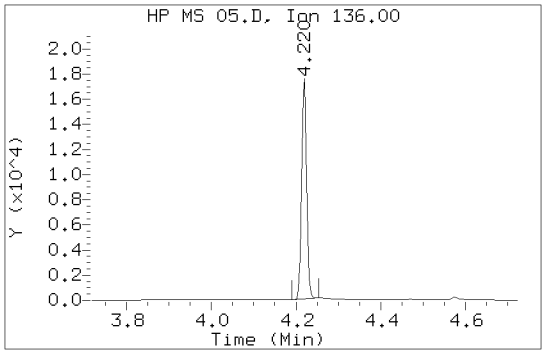
**BEFORE**

MASS
136
AREA
14851
HEIGHT
17567
16-Jun-2023
11:42
ALSHS
Server




**AFTER**

MASS
136
AREA
14672
HEIGHT
17505
29-Jun-2023
14:26
ALSHS
Ser



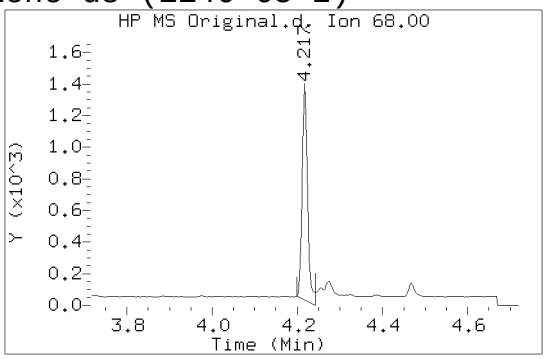
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

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

Reason Code:

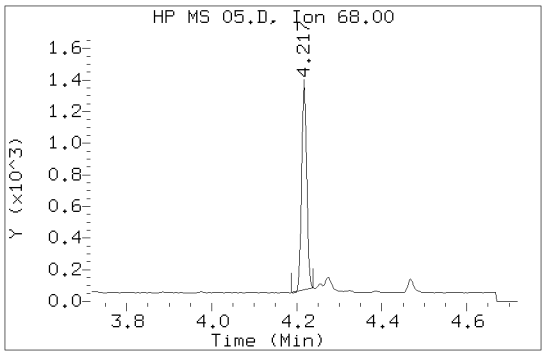
BEFORE

MASS
68
AREA
1196
HEIGHT
1368
16-Jun-2023
11:42
ALSHS
Server




AFTER

MASS
68
AREA
1062
HEIGHT
1328
29-Jun-2023
14:26
ALSHS
Ser

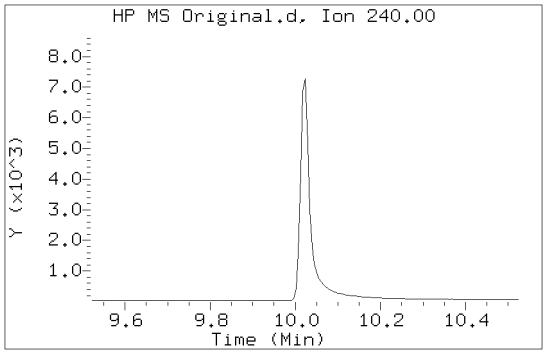



## Chrysene-d12 (1719-03-5)

Reason Code:

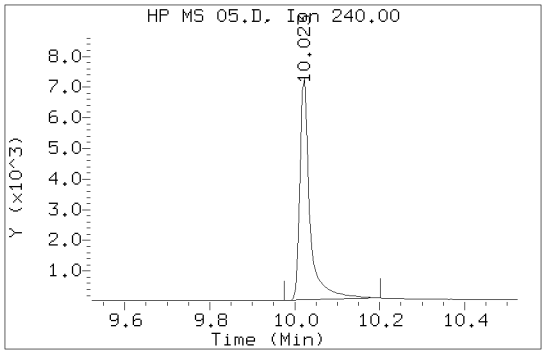
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



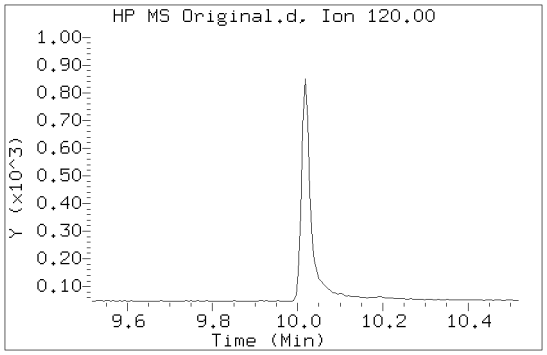

AFTER

MASS
240
AREA
11821
HEIGHT
7215
29-Jun-2023
14:26
ALSHS
Ser



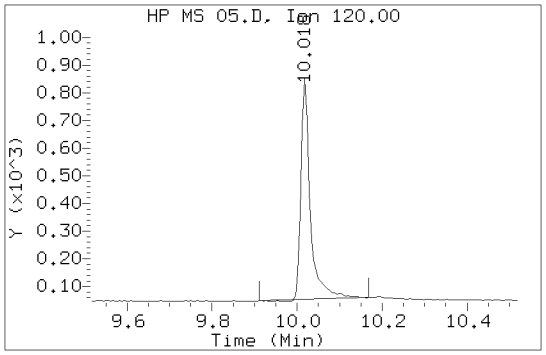

BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



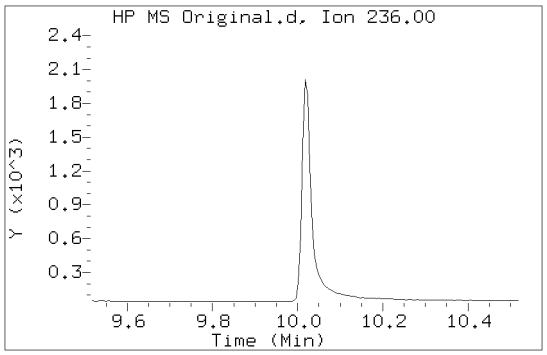

AFTER

MASS
120
AREA
1207
HEIGHT
796
29-Jun-2023
14:26
ALSHS
Ser



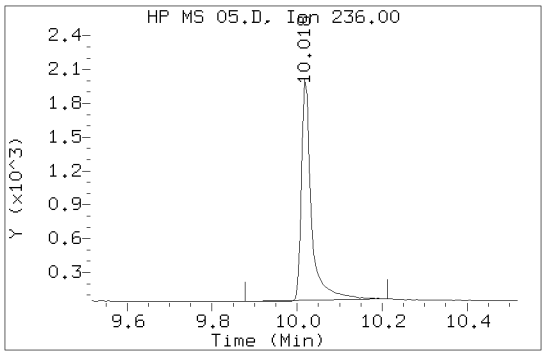

BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server




AFTER

MASS
236
AREA
3185
HEIGHT
1956
29-Jun-2023
14:26
ALSHS
Ser



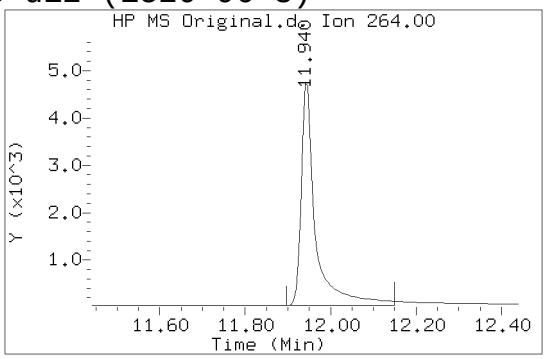
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

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

Reason Code:

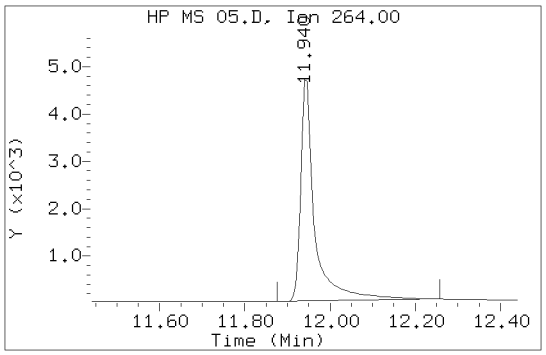
BEFORE

MASS
264
AREA
10829
HEIGHT
4681
16-Jun-2023
11:42
ALSHS
Server



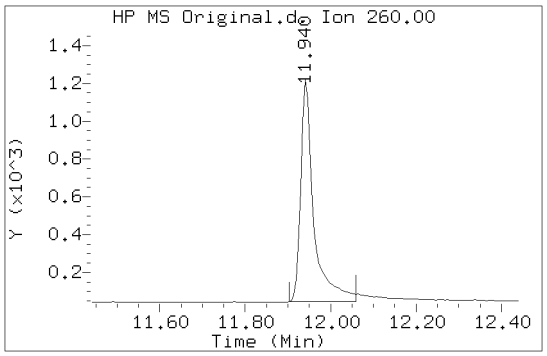

AFTER

MASS
264
AREA
10677
HEIGHT
4673
29-Jun-2023
14:26
ALSHS
Ser



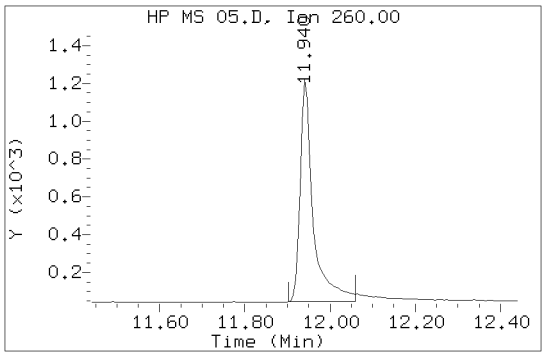

BEFORE

MASS
260
AREA
2488
HEIGHT
1174
16-Jun-2023
11:42
ALSHS
Server



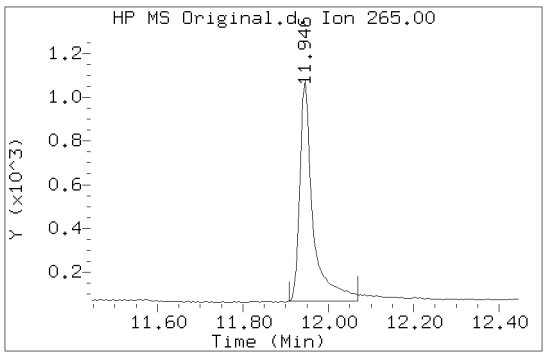

AFTER

MASS
260
AREA
2488
HEIGHT
1174
29-Jun-2023
14:26
ALSHS
Ser



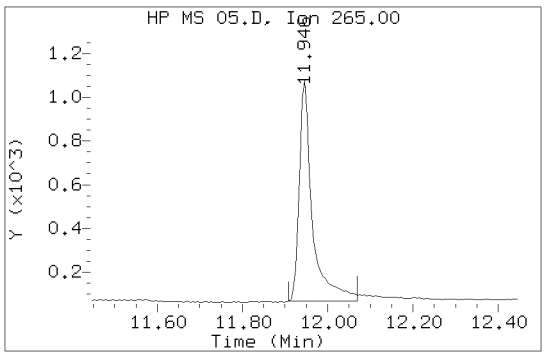

BEFORE

MASS
265
AREA
2154
HEIGHT
1009
16-Jun-2023
11:42
ALSHS
Server




AFTER

MASS
265
AREA
2154
HEIGHT
1009
29-Jun-2023
14:26
ALSHS
Ser

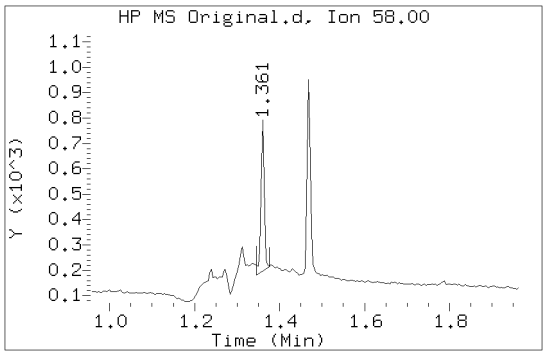



## 1,4-Dioxane ()

Reason Code:

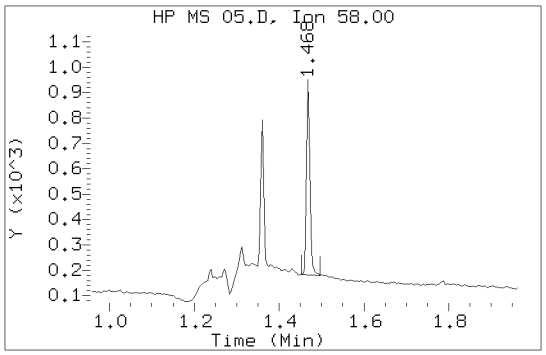
BEFORE

MASS
58
AREA
319
HEIGHT
594
16-Jun-2023
11:42
ALSHS
Server




AFTER

MASS
58
AREA
426
HEIGHT
768
29-Jun-2023
14:26
ALSHS
Ser



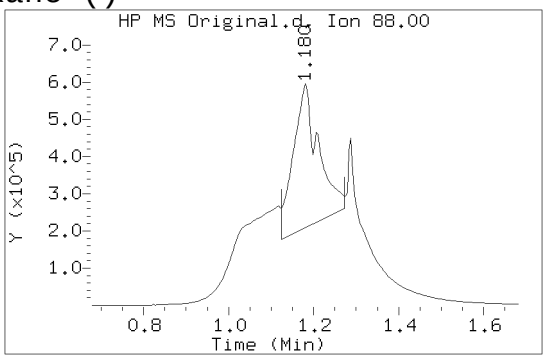
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

## 1,4-Dioxane ()

Reason Code:

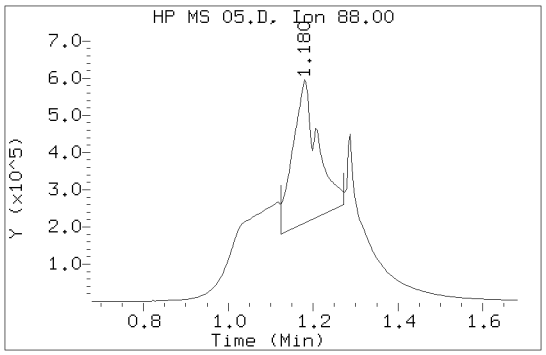
**BEFORE**

MASS
88
AREA
1599767
HEIGHT
386587
16-Jun-2023
11:42
ALSHS
Server




**AFTER**

MASS
88
AREA
1591467
HEIGHT
385442
29-Jun-2023
14:26
ALSHS
Ser

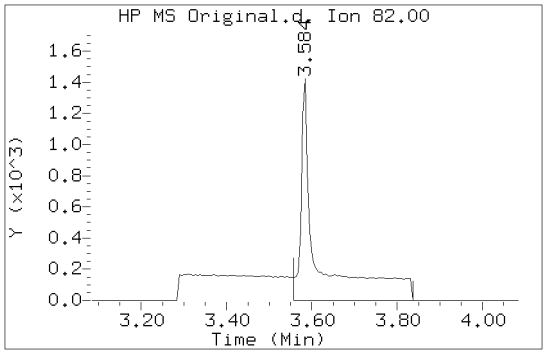



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

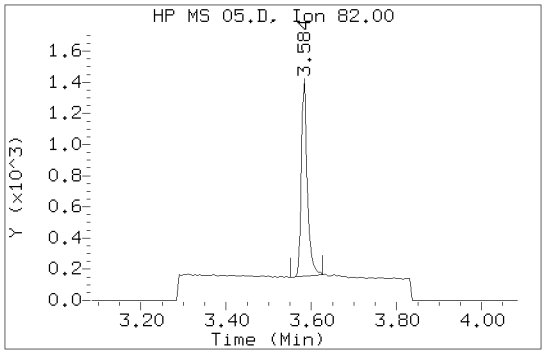
**BEFORE**

MASS
82
AREA
3739
HEIGHT
1423
16-Jun-2023
11:42
ALSHS
Server



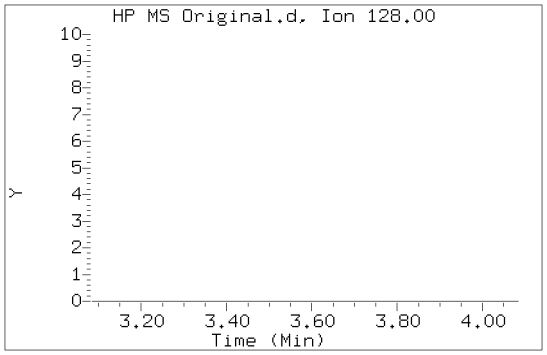

**AFTER**

MASS
82
AREA
1234
HEIGHT
1266
29-Jun-2023
14:26
ALSHS
Ser



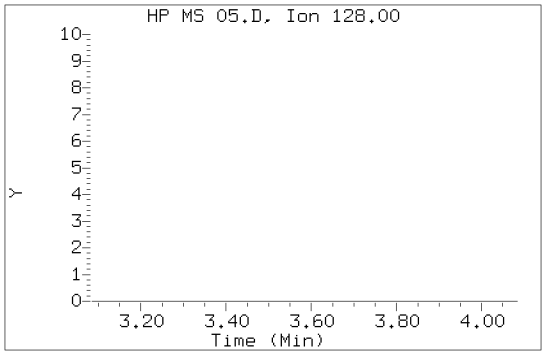

**BEFORE**

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



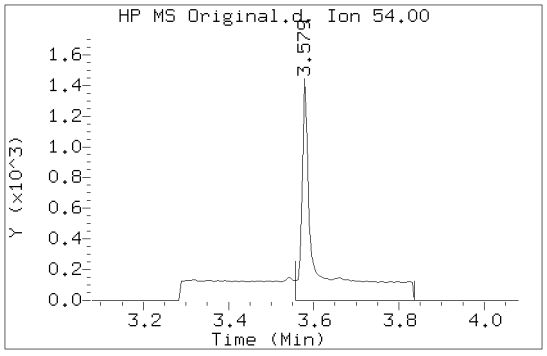

**AFTER**

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



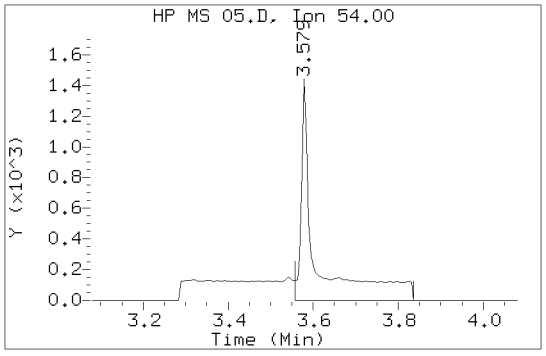

**BEFORE**

MASS
54
AREA
3364
HEIGHT
1444
16-Jun-2023
11:42
ALSHS
Server




**AFTER**

MASS
54
AREA
3364
HEIGHT
1444
29-Jun-2023
14:26
ALSHS
Ser



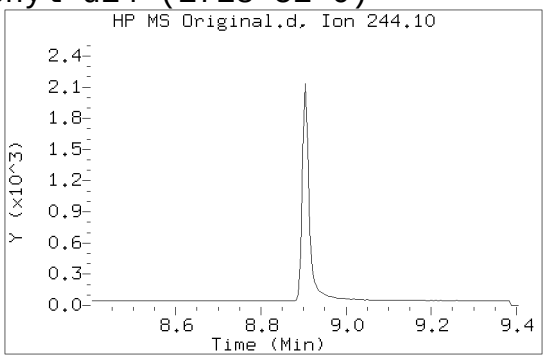
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

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

Reason Code:

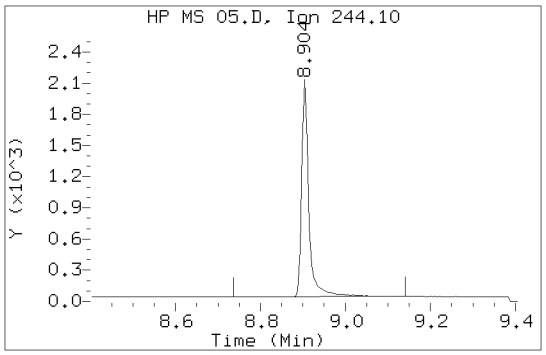
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



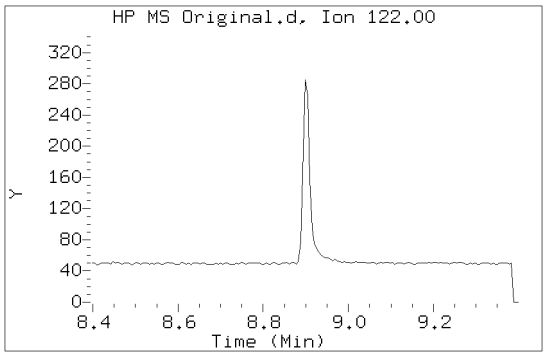

AFTER

MASS
244.1
AREA
2416
HEIGHT
2087
29-Jun-2023
14:26
ALSHS
Ser



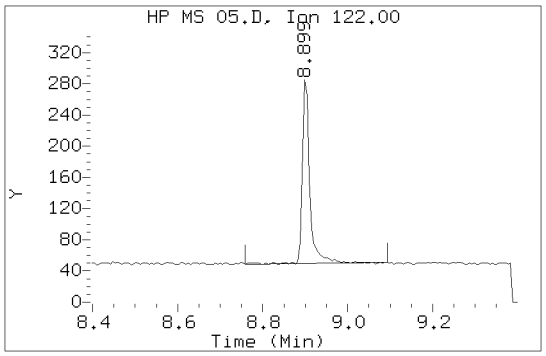

BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



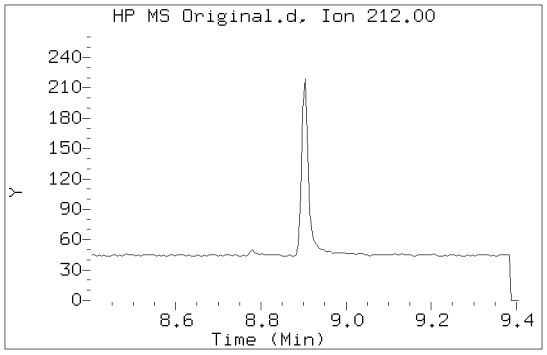

AFTER

MASS
122
AREA
278
HEIGHT
235
29-Jun-2023
14:26
ALSHS
Ser



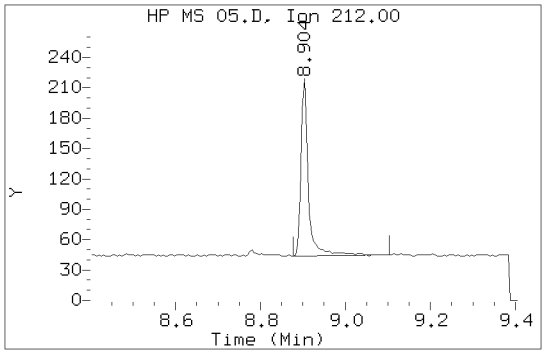

BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server




AFTER

MASS
212
AREA
205
HEIGHT
174
29-Jun-2023
14:26
ALSHS
Ser

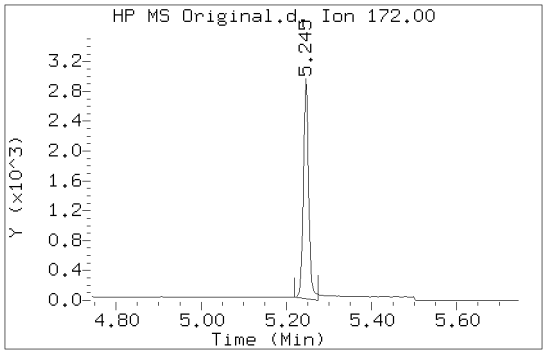



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

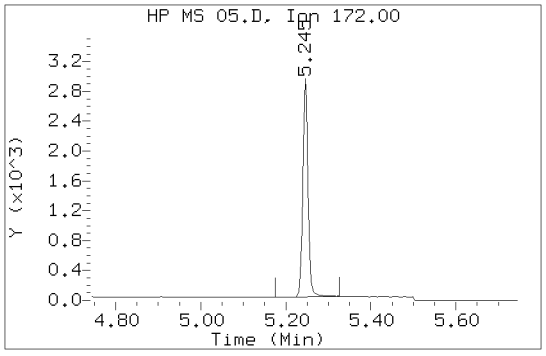
BEFORE

MASS
172
AREA
2588
HEIGHT
2943
16-Jun-2023
11:42
ALSHS
Server




AFTER

MASS
172
AREA
2509
HEIGHT
2918
29-Jun-2023
14:26
ALSHS
Ser



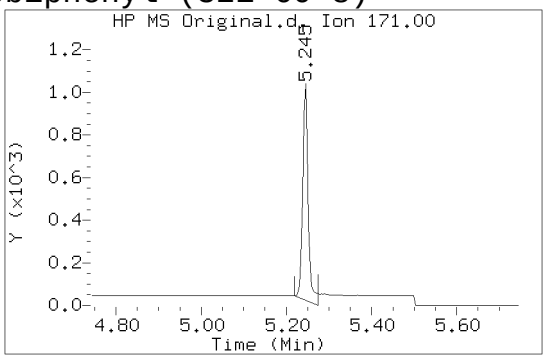
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

2-Fluorobiphenyl (321-60-8)

Reason Code:

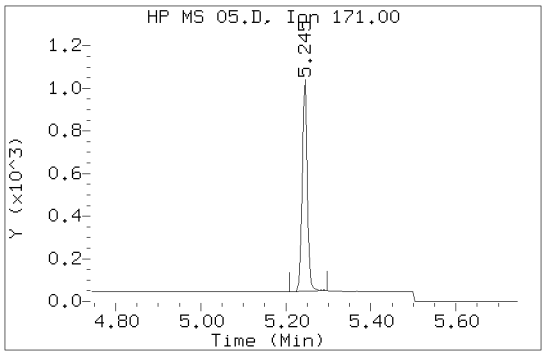
BEFORE

MASS
171
AREA
921
HEIGHT
1017
16-Jun-2023
11:42
ALSHS
Server




AFTER

MASS
171
AREA
834
HEIGHT
993
29-Jun-2023
14:26
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D Page 1
Report Date: 29-Jun-2023 14:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Lab Smp Id: 14DXICAL-0.05 Client Smp ID: 14DXICAL-0.05
Inj Date : 16-JUN-2023 11:44
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:26 Cal File: 05.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.128 | 3.128 | (1.000) | 5073 | 0.10000 | (a) |
| * 45 Naphthalene-d8 | 136 | 4.216 | 4.216 | (1.000) | 17044 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.584 | 3.584 | (0.850) | 2574 | 0.05000 | 0.04995(QM) |
| * 86 Acenaphthene-d10 | 164 | 5.883 | 5.883 | (1.000) | 10027 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 5.245 | 5.245 | (0.891) | 4907 | 0.05000 | 0.04778(M) |
| * 126 Phenanthrene-d10 | 188 | 7.322 | 7.322 | (1.000) | 19800 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 10.017 | 10.017 | (1.000) | 14524 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.904 | 8.904 | (0.889) | 4687 | 0.05000 | 0.04422(M) |
| * 198 Perylene-d12 | 264 | 11.940 | 11.940 | (1.000) | 12549 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.486 | 1.486 | (0.475) | 828 | 0.05000 | 0.04846(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.

01195817

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D



Date : 16-JUN-2023 11:44

Client ID: 14DXICAL-0.05

Instrument: SV6.i

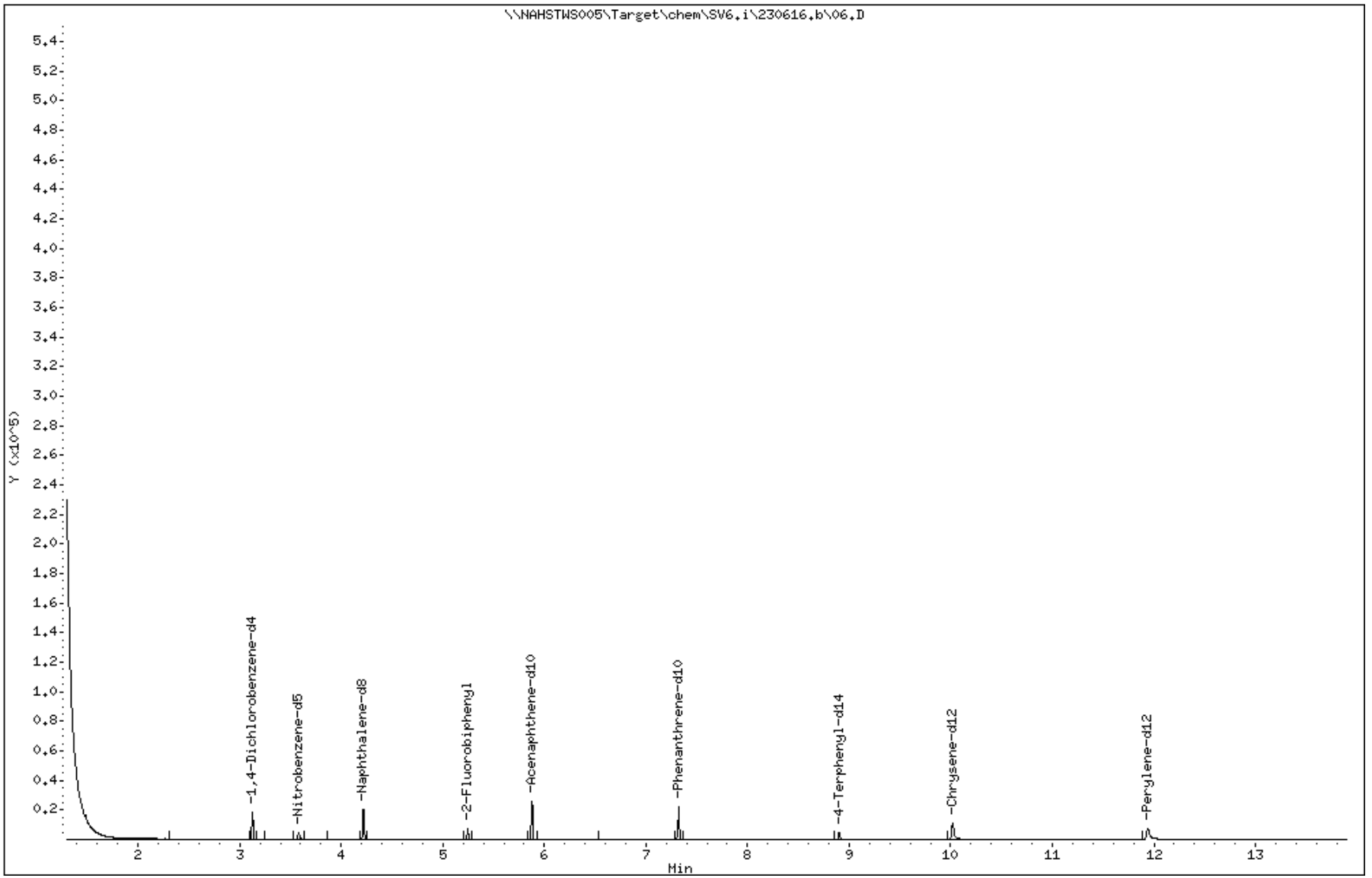
Sample Info: 14DXICAL-0.05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



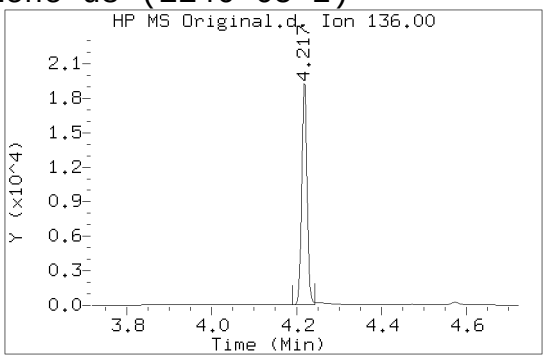
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Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

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

Reason Code:

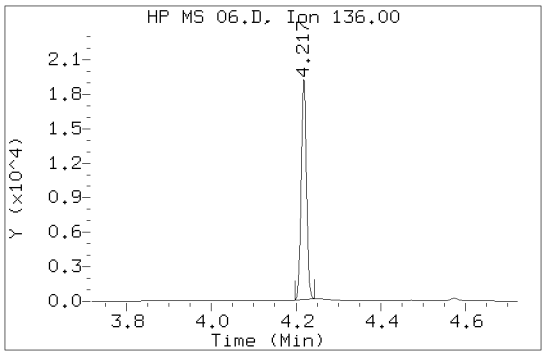
BEFORE

MASS
136
AREA
17378
HEIGHT
19211
16-Jun-2023
11:59
ALSHS
Server



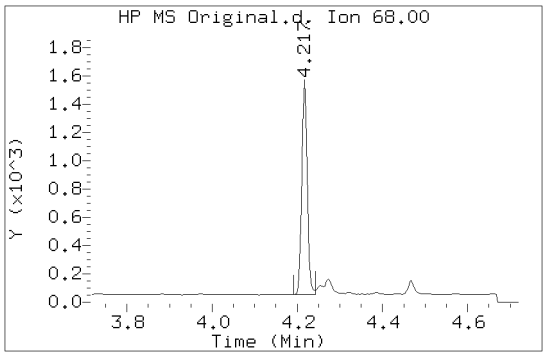

AFTER

MASS
136
AREA
17044
HEIGHT
19106
29-Jun-2023
14:26
ALSHS
Ser



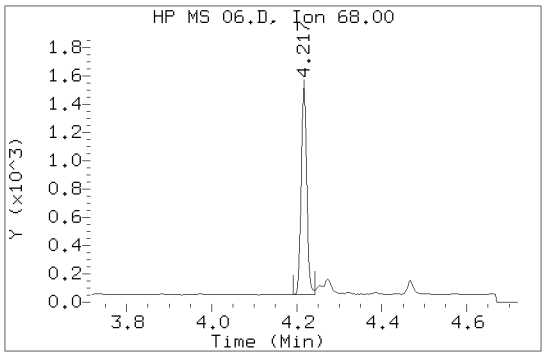

BEFORE

MASS
68
AREA
1330
HEIGHT
1515
16-Jun-2023
11:59
ALSHS
Server




AFTER

MASS
68
AREA
1330
HEIGHT
1515
29-Jun-2023
14:26
ALSHS
Ser

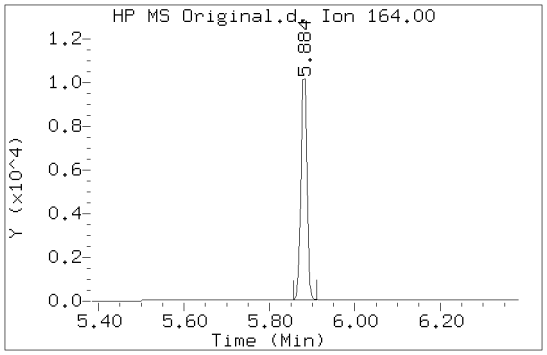



## Acenaphthene-d10 (15067-26-2)

Reason Code:

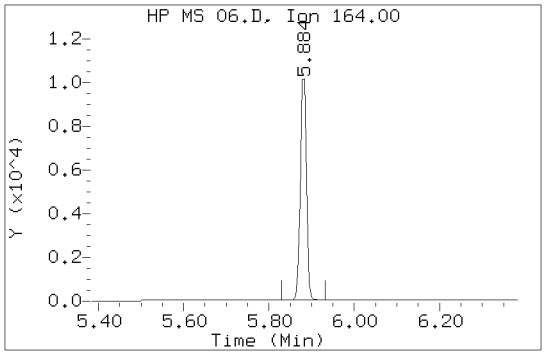
BEFORE

MASS
164
AREA
9969
HEIGHT
10109
16-Jun-2023
11:59
ALSHS
Server



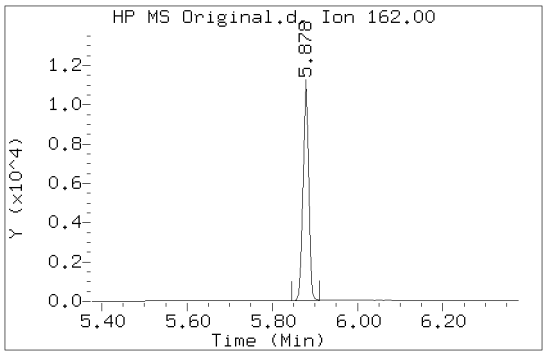

AFTER

MASS
164
AREA
10027
HEIGHT
10124
29-Jun-2023
14:26
ALSHS
Ser



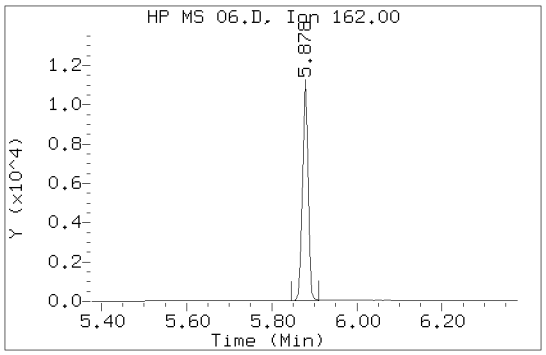

BEFORE

MASS
162
AREA
10122
HEIGHT
11230
16-Jun-2023
11:59
ALSHS
Server




AFTER

MASS
162
AREA
10122
HEIGHT
11230
29-Jun-2023
14:26
ALSHS
Ser



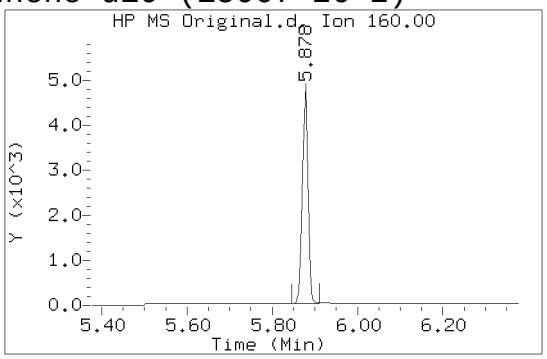
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

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

Reason Code:

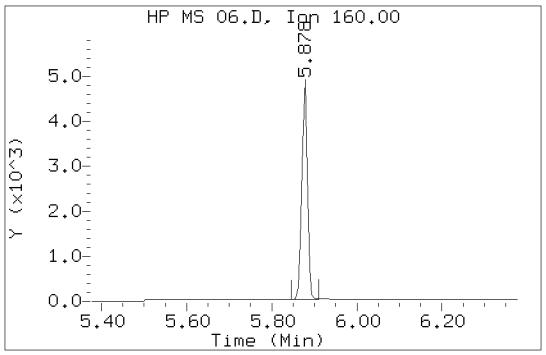
BEFORE

MASS
160
AREA
4359
HEIGHT
4881
16-Jun-2023
11:59
ALSHS
Server




AFTER

MASS
160
AREA
4359
HEIGHT
4881
29-Jun-2023
14:26
ALSHS
Ser

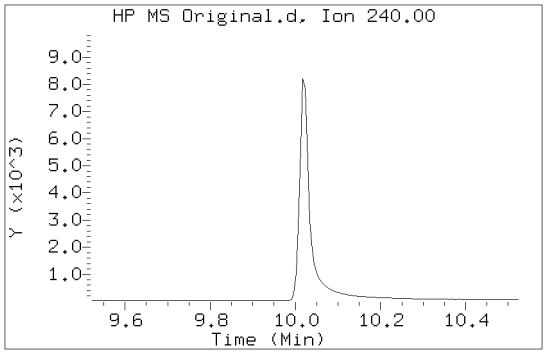



## Chrysene-d12 (1719-03-5)

Reason Code:

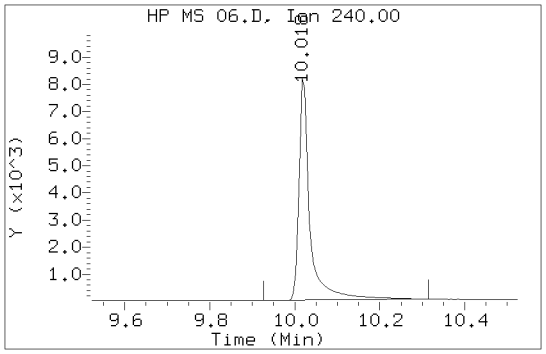
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



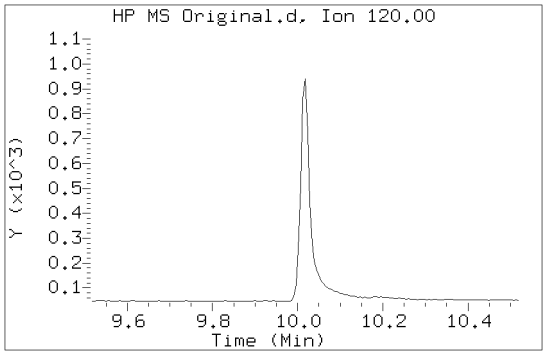

AFTER

MASS
240
AREA
14524
HEIGHT
8152
29-Jun-2023
14:26
ALSHS
Ser



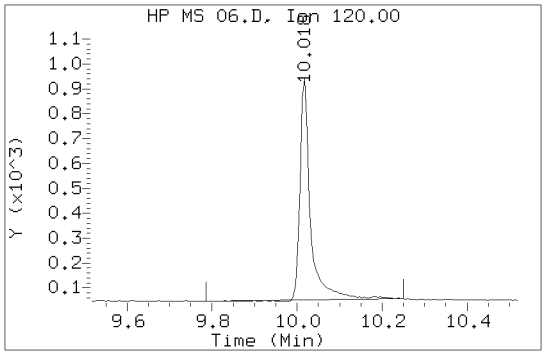

BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



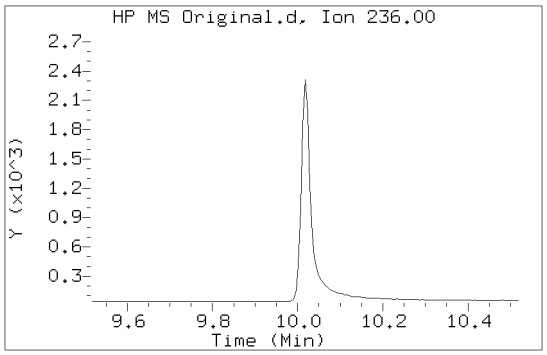

AFTER

MASS
120
AREA
1511
HEIGHT
888
29-Jun-2023
14:26
ALSHS
Ser



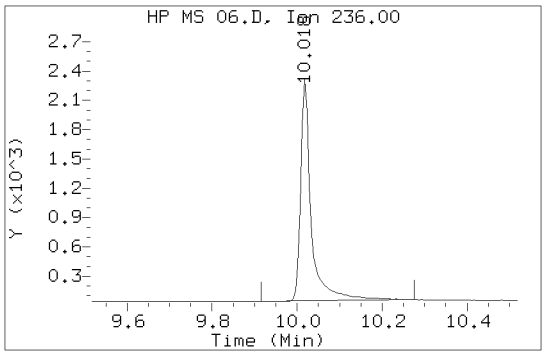

BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server




AFTER

MASS
236
AREA
3903
HEIGHT
2262
29-Jun-2023
14:26
ALSHS
Ser



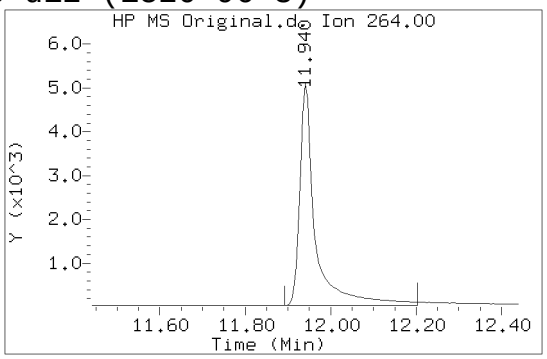
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

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

Reason Code:

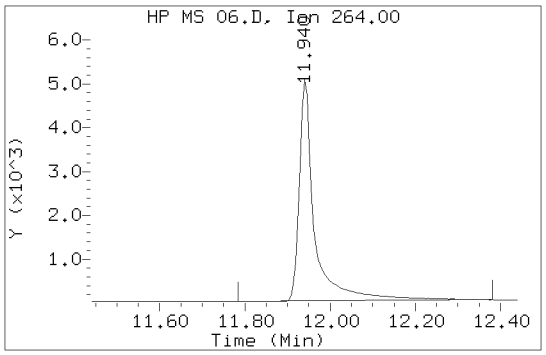
**BEFORE**

MASS
264
AREA
12686
HEIGHT
5050
16-Jun-2023
11:59
ALSHS
Server



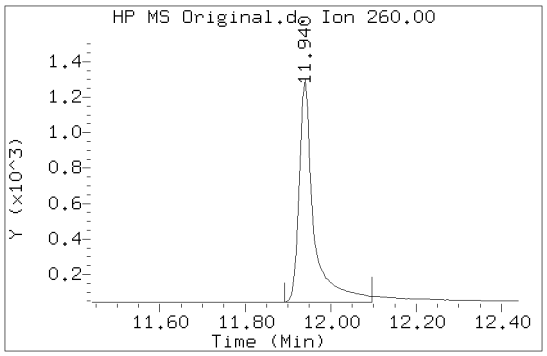

**AFTER**

MASS
264
AREA
12549
HEIGHT
5041
29-Jun-2023
14:26
ALSHS
Ser



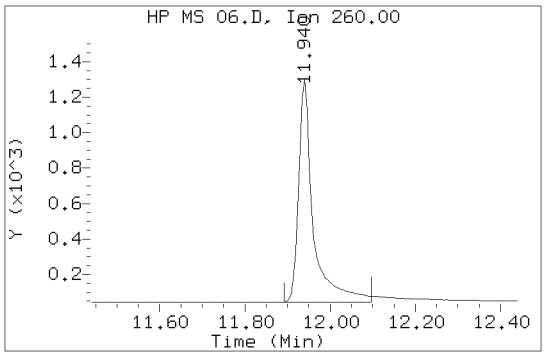

**BEFORE**

MASS
260
AREA
2978
HEIGHT
1253
16-Jun-2023
11:59
ALSHS
Server



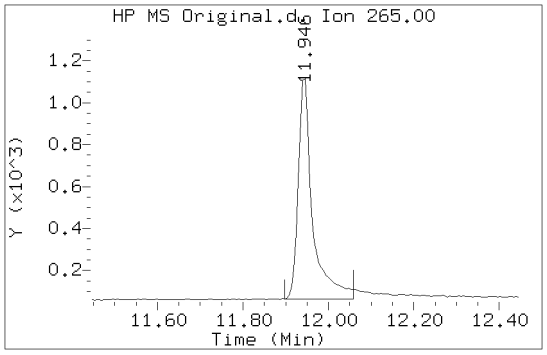

**AFTER**

MASS
260
AREA
2978
HEIGHT
1253
29-Jun-2023
14:26
ALSHS
Ser



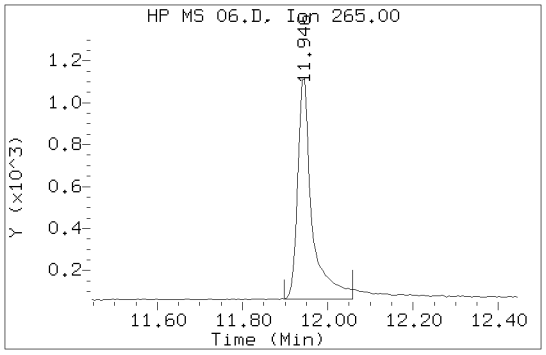

**BEFORE**

MASS
265
AREA
2473
HEIGHT
1053
16-Jun-2023
11:59
ALSHS
Server




**AFTER**

MASS
265
AREA
2473
HEIGHT
1053
29-Jun-2023
14:26
ALSHS
Ser

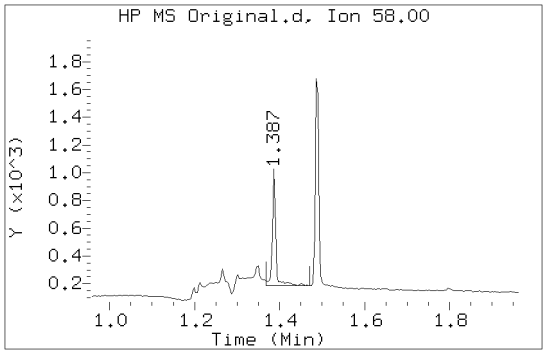



## 1,4-Dioxane ()

Reason Code:

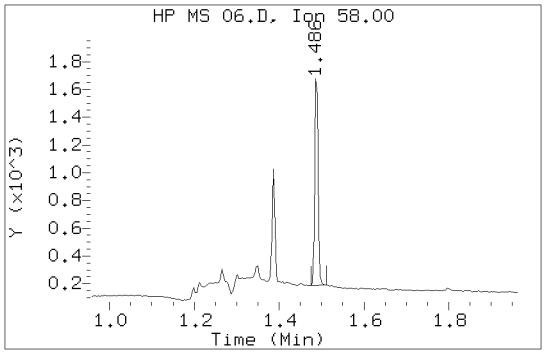
**BEFORE**

MASS
58
AREA
474
HEIGHT
839
16-Jun-2023
11:59
ALSHS
Server




**AFTER**

MASS
58
AREA
828
HEIGHT
1488
29-Jun-2023
14:26
ALSHS
Ser



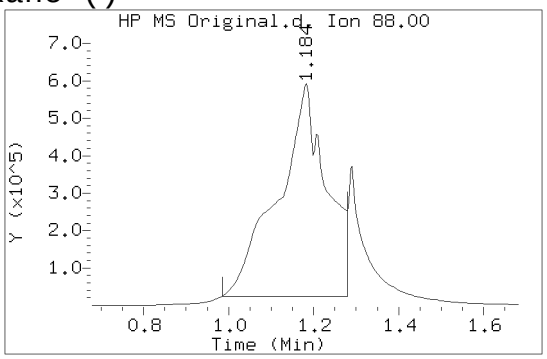
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

## 1,4-Dioxane ()

Reason Code:

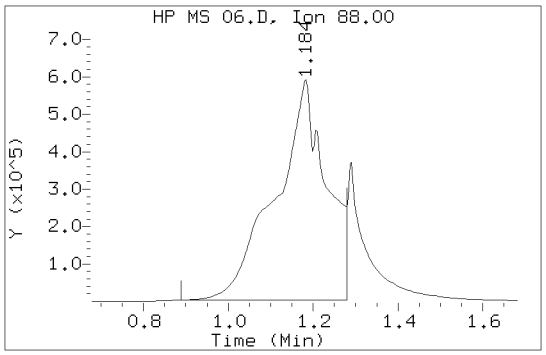
**BEFORE**

MASS
88
AREA
4490753
HEIGHT
567696
16-Jun-2023
11:59
ALSHS
Server




**AFTER**

MASS
88
AREA
4905096
HEIGHT
589066
29-Jun-2023
14:26
ALSHS
Ser

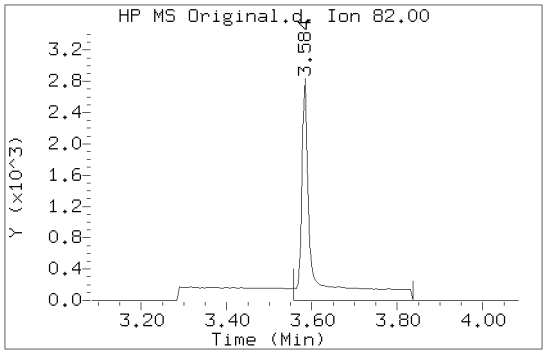



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

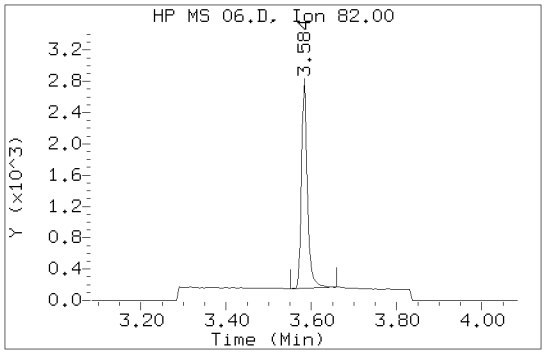
**BEFORE**

MASS
82
AREA
5121
HEIGHT
2833
16-Jun-2023
11:59
ALSHS
Server



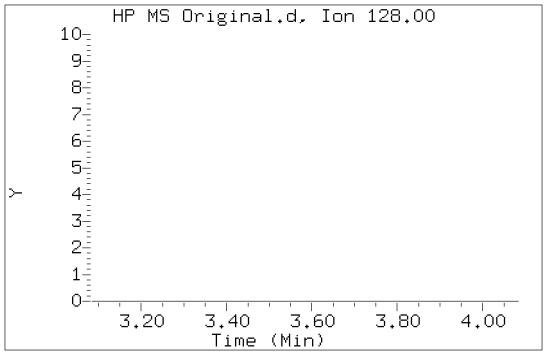

**AFTER**

MASS
82
AREA
2574
HEIGHT
2676
29-Jun-2023
14:26
ALSHS
Ser



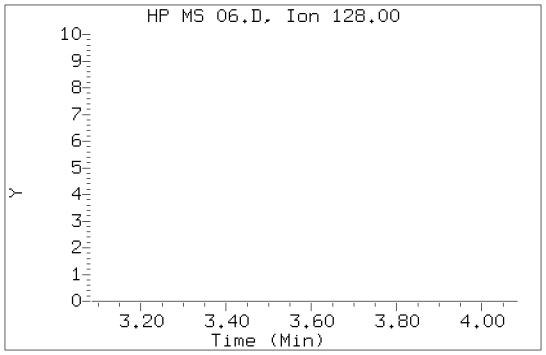

**BEFORE**

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



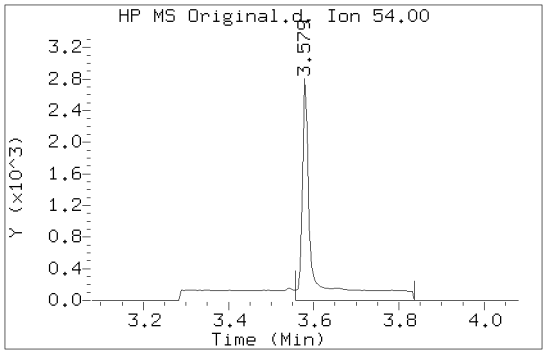

**AFTER**

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



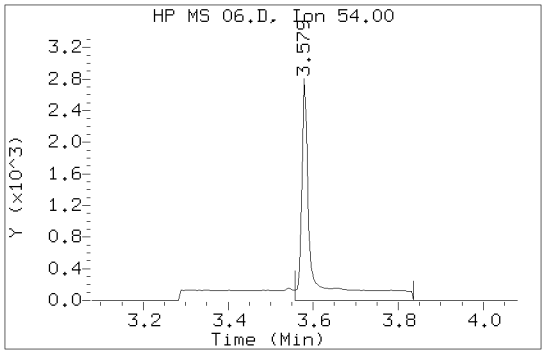

**BEFORE**

MASS
54
AREA
4709
HEIGHT
2805
16-Jun-2023
11:59
ALSHS
Server




**AFTER**

MASS
54
AREA
4709
HEIGHT
2805
29-Jun-2023
14:26
ALSHS
Ser



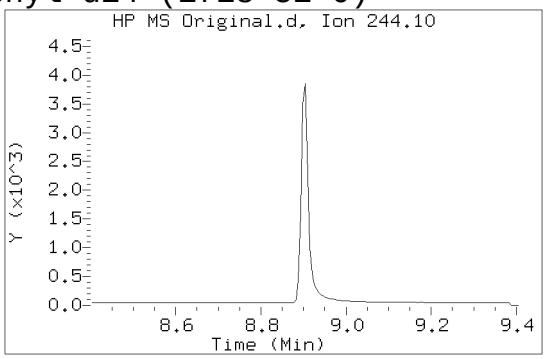
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

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

Reason Code:

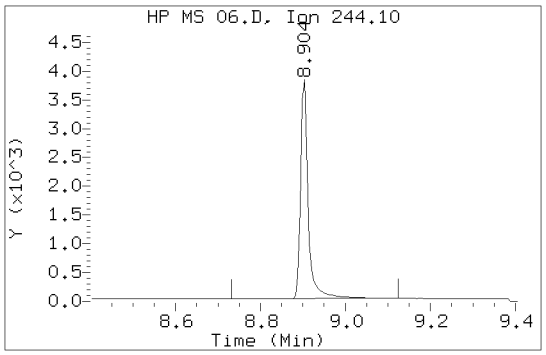
**BEFORE**

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



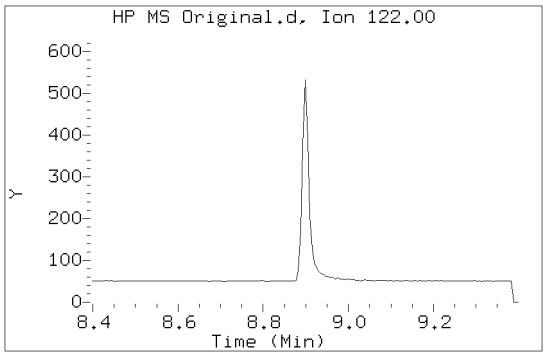

**AFTER**

MASS
244.1
AREA
4687
HEIGHT
3802
29-Jun-2023
14:26
ALSHS
Ser



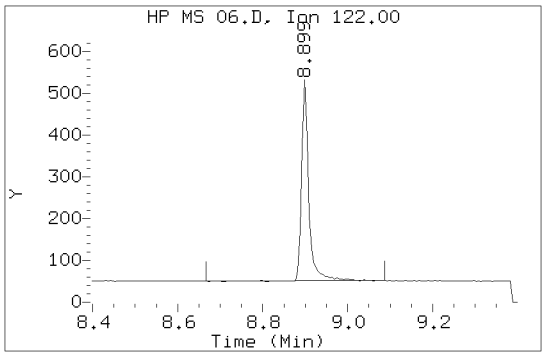

**BEFORE**

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



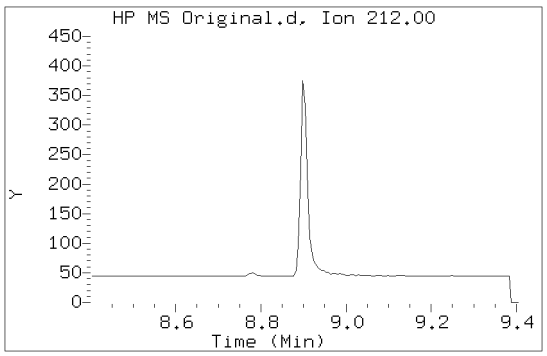

**AFTER**

MASS
122
AREA
540
HEIGHT
480
29-Jun-2023
14:26
ALSHS
Ser



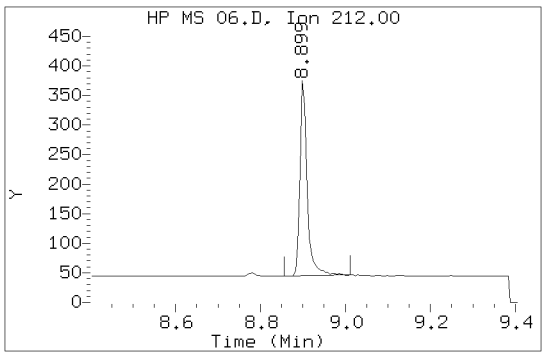

**BEFORE**

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server




**AFTER**

MASS
212
AREA
383
HEIGHT
330
29-Jun-2023
14:26
ALSHS
Ser

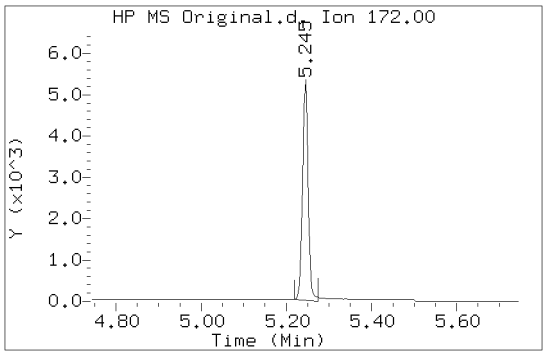



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

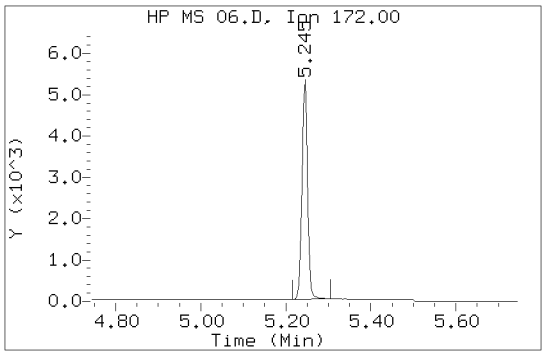
**BEFORE**

MASS
172
AREA
4989
HEIGHT
5338
16-Jun-2023
11:59
ALSHS
Server




**AFTER**

MASS
172
AREA
4907
HEIGHT
5312
29-Jun-2023
14:26
ALSHS
Ser



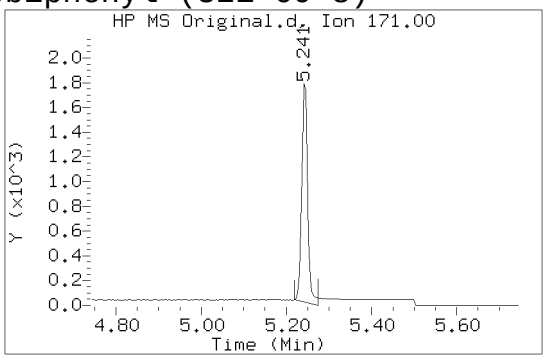
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

2-Fluorobiphenyl (321-60-8)

Reason Code:

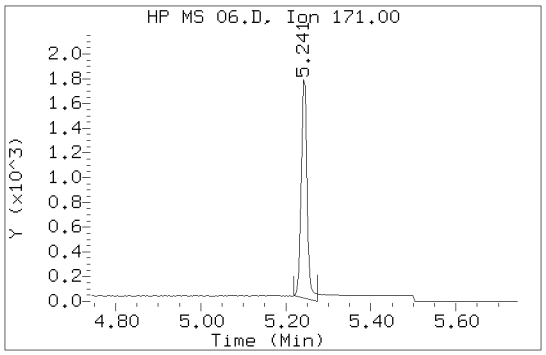
BEFORE

MASS
171
AREA
1727
HEIGHT
1764
16-Jun-2023
11:59
ALSHS
Server




AFTER

MASS
171
AREA
1727
HEIGHT
1764
29-Jun-2023
14:26
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D Page 1
Report Date: 29-Jun-2023 14:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Lab Smp Id: 14DXICAL-0.08 Client Smp ID: 14DXICAL-0.08
Inj Date : 16-JUN-2023 12:02
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:44 Cal File: 06.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.128 | 3.128 | (1.000) | 4590 | 0.10000 | (a) |
| * 45 Naphthalene-d8 | 136 | 4.220 | 4.220 | (1.000) | 15619 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.584 | 3.584 | (0.849) | 4012 | 0.08000 | 0.08496(M) |
| * 86 Acenaphthene-d10 | 164 | 5.883 | 5.883 | (1.000) | 9075 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 5.245 | 5.245 | (0.891) | 7759 | 0.08000 | 0.08348 |
| * 126 Phenanthrene-d10 | 188 | 7.322 | 7.322 | (1.000) | 18261 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 10.017 | 10.017 | (1.000) | 12097 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.904 | 8.904 | (0.889) | 7185 | 0.08000 | 0.08138(M) |
| * 198 Perylene-d12 | 264 | 11.940 | 11.940 | (1.000) | 10759 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.482 | 1.482 | (0.474) | 1283 | 0.08000 | 0.08298(QH) |

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.

01195825

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D



Date : 16-JUN-2023 12:02

Client ID: 14DXICAL-0.08

Instrument: SV6.i

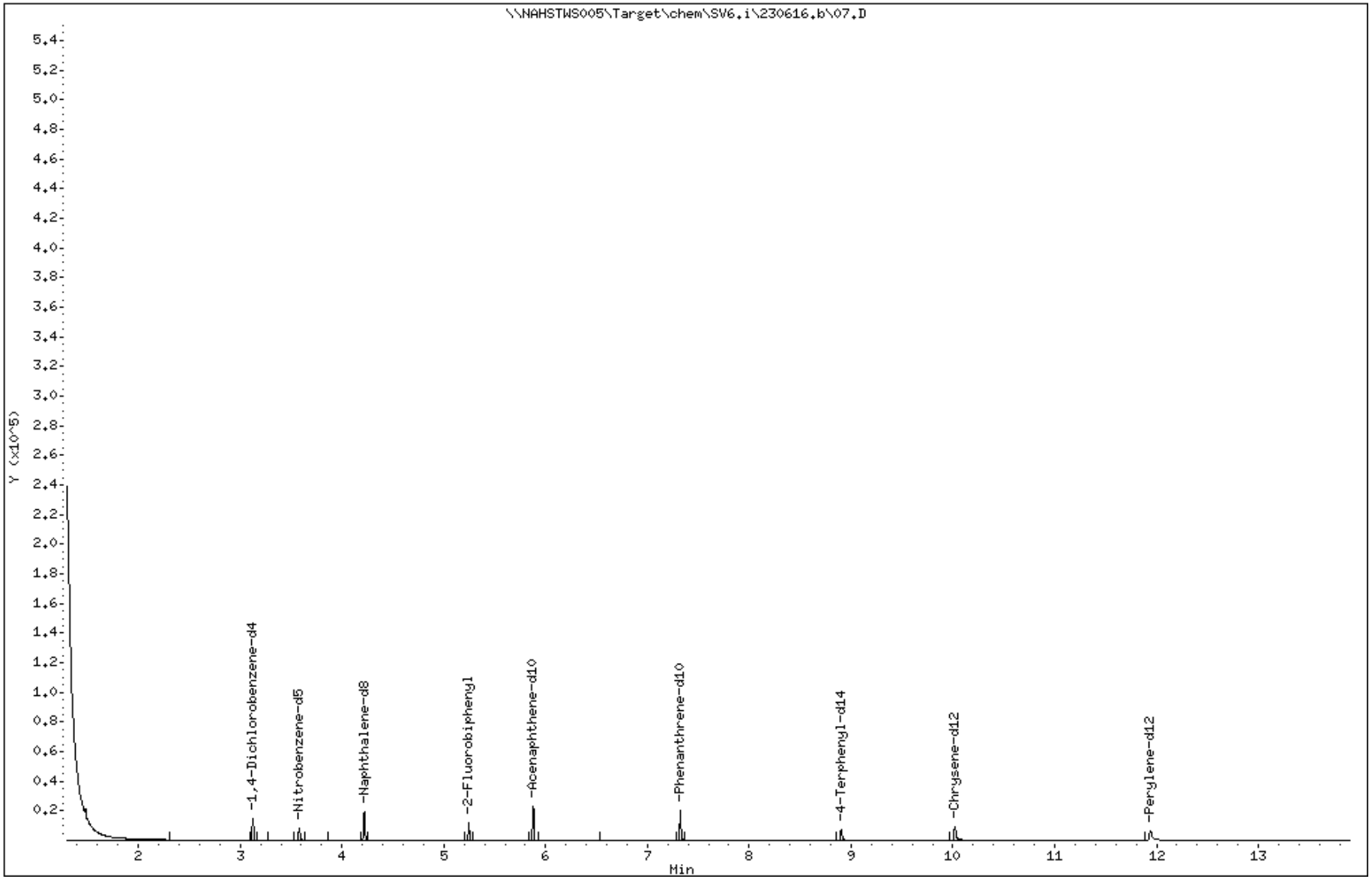
Sample Info: 14DXICAL-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



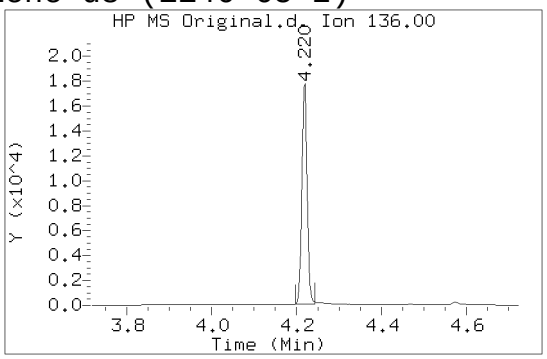
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

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

Reason Code:

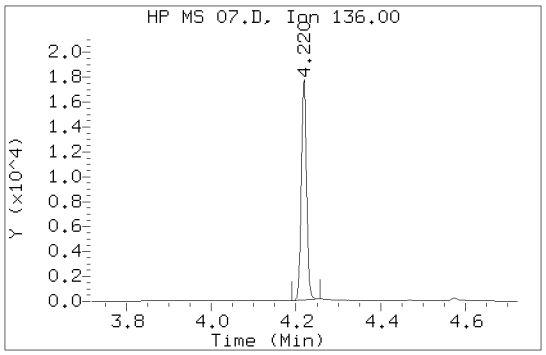
**BEFORE**

MASS
136
AREA
15744
HEIGHT
17718
16-Jun-2023
12:18
ALSHS
Server



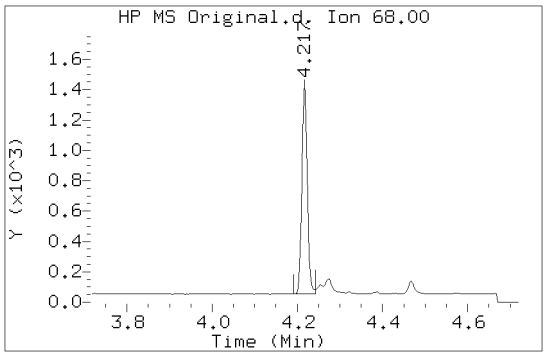

**AFTER**

MASS
136
AREA
15619
HEIGHT
17670
29-Jun-2023
14:26
ALSHS
Ser



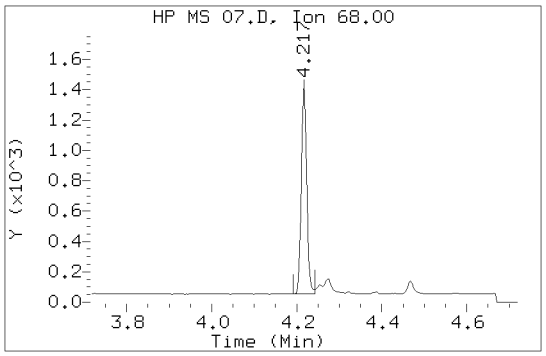

**BEFORE**

MASS
68
AREA
1209
HEIGHT
1411
16-Jun-2023
12:18
ALSHS
Server




**AFTER**

MASS
68
AREA
1209
HEIGHT
1411
29-Jun-2023
14:26
ALSHS
Ser

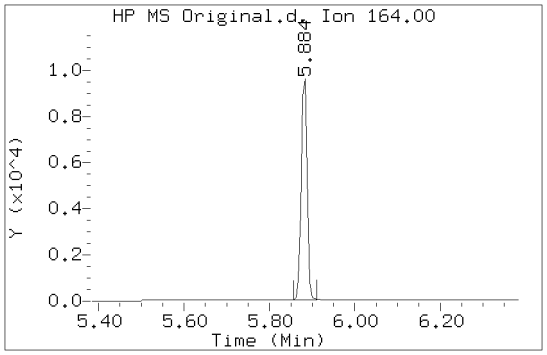



## Acenaphthene-d10 (15067-26-2)

Reason Code:

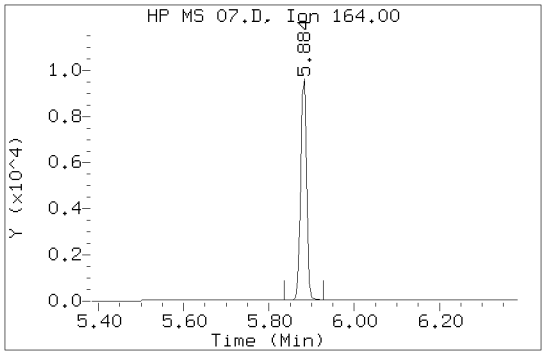
**BEFORE**

MASS
164
AREA
9060
HEIGHT
9568
16-Jun-2023
12:18
ALSHS
Server



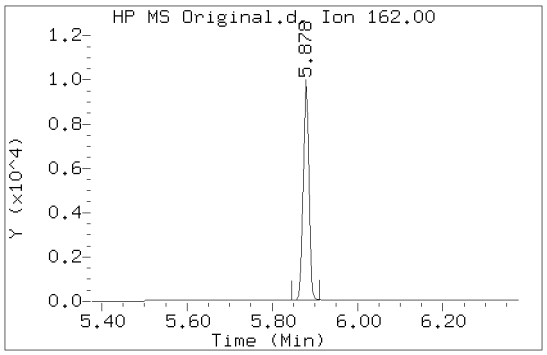

**AFTER**

MASS
164
AREA
9075
HEIGHT
9571
29-Jun-2023
14:26
ALSHS
Ser



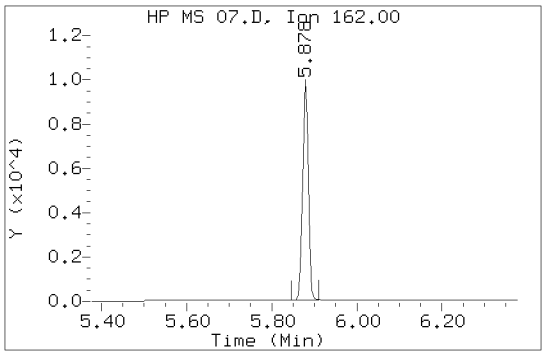

**BEFORE**

MASS
162
AREA
9173
HEIGHT
9961
16-Jun-2023
12:18
ALSHS
Server




**AFTER**

MASS
162
AREA
9173
HEIGHT
9961
29-Jun-2023
14:26
ALSHS
Ser



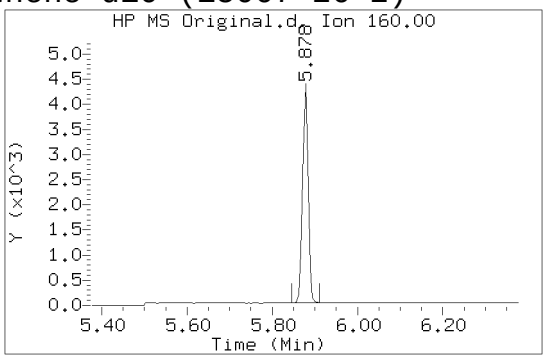
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

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

Reason Code:

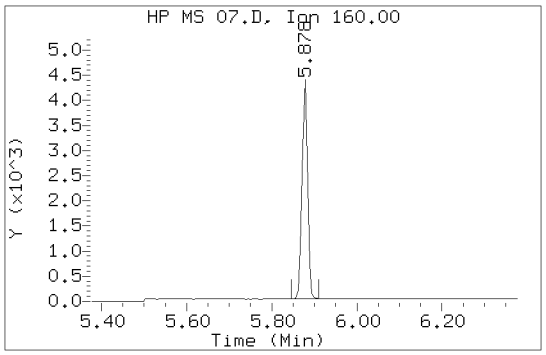
**BEFORE**

MASS
160
AREA
3928
HEIGHT
4365
16-Jun-2023
12:18
ALSHS
Server




**AFTER**

MASS
160
AREA
3928
HEIGHT
4365
29-Jun-2023
14:26
ALSHS
Ser

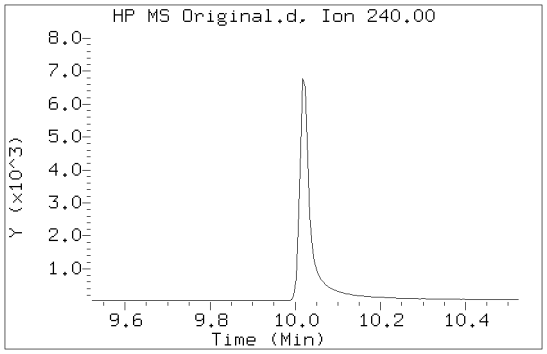



## Chrysene-d12 (1719-03-5)

Reason Code:

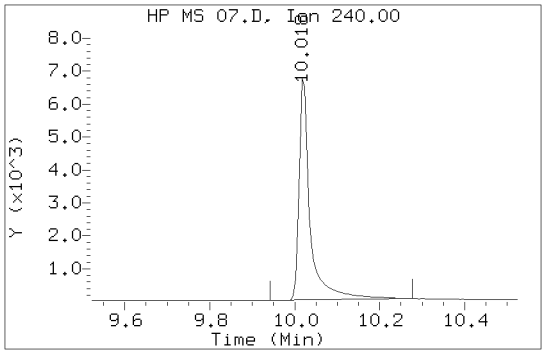
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



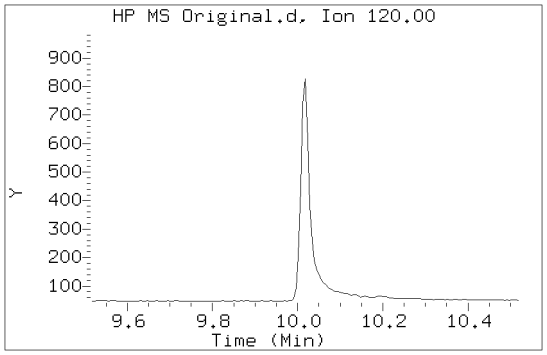

**AFTER**

MASS
240
AREA
12097
HEIGHT
6713
29-Jun-2023
14:26
ALSHS
Ser



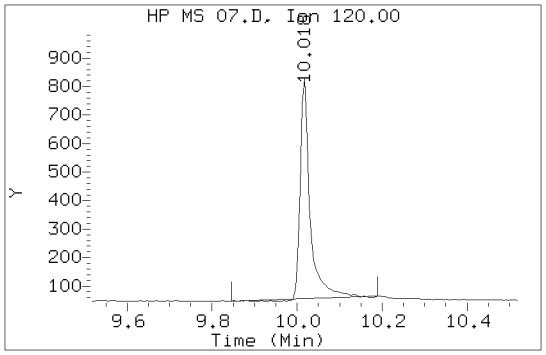

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



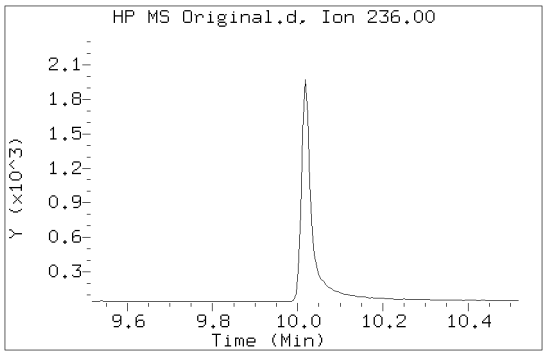

**AFTER**

MASS
120
AREA
1207
HEIGHT
771
29-Jun-2023
14:26
ALSHS
Ser



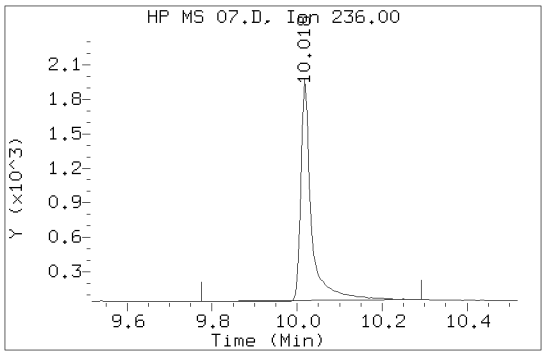

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server




**AFTER**

MASS
236
AREA
3279
HEIGHT
1919
29-Jun-2023
14:26
ALSHS
Ser



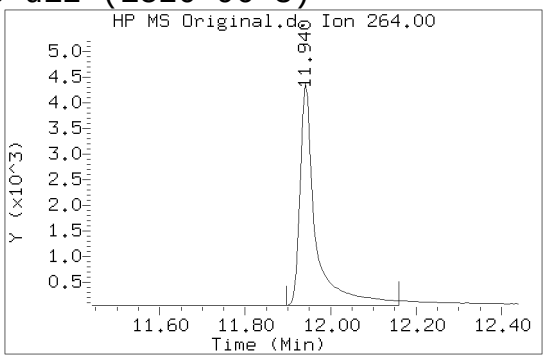
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

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

Reason Code:

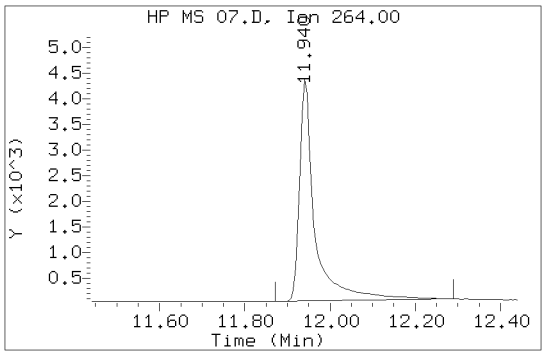
**BEFORE**

MASS
264
AREA
10879
HEIGHT
4324
16-Jun-2023
12:18
ALSHS
Server



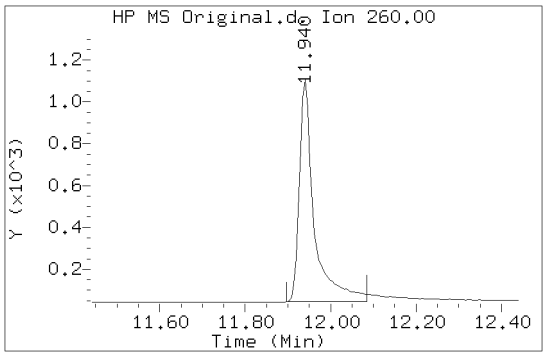

**AFTER**

MASS
264
AREA
10759
HEIGHT
4317
29-Jun-2023
14:26
ALSHS
Ser



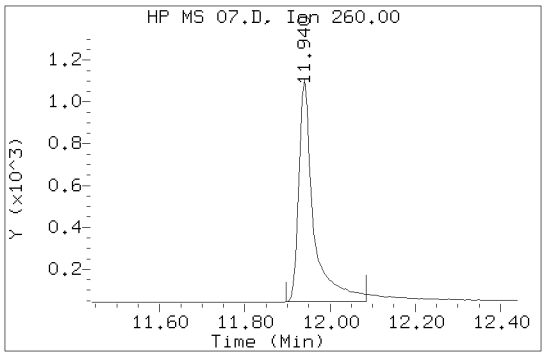

**BEFORE**

MASS
260
AREA
2559
HEIGHT
1060
16-Jun-2023
12:18
ALSHS
Server



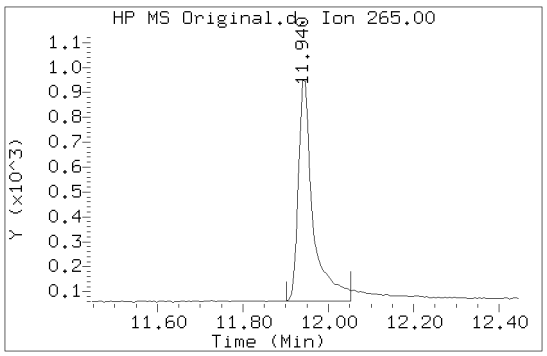

**AFTER**

MASS
260
AREA
2559
HEIGHT
1060
29-Jun-2023
14:26
ALSHS
Ser



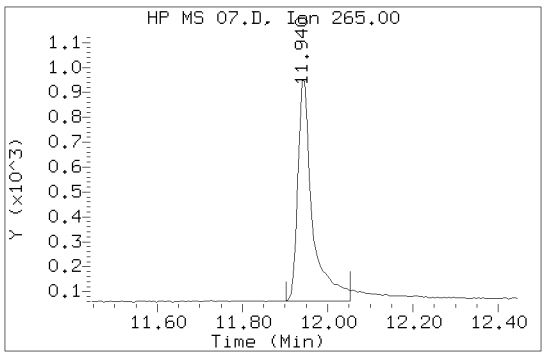

**BEFORE**

MASS
265
AREA
2115
HEIGHT
884
16-Jun-2023
12:18
ALSHS
Server




**AFTER**

MASS
265
AREA
2115
HEIGHT
884
29-Jun-2023
14:26
ALSHS
Ser

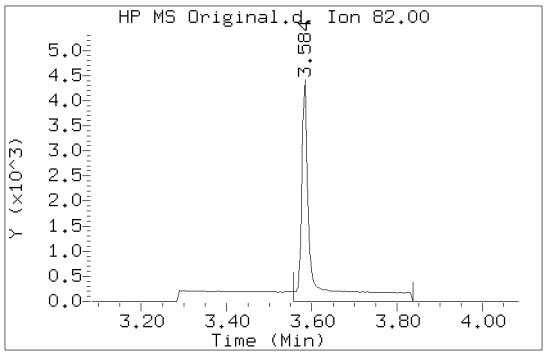



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

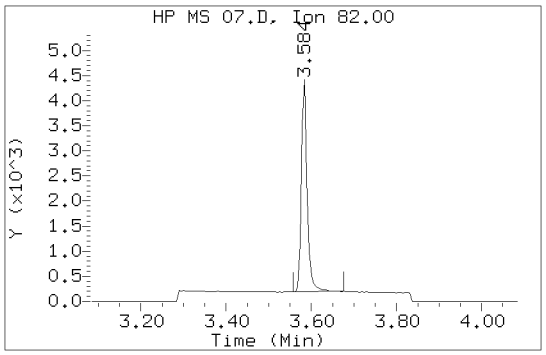
**BEFORE**

MASS
82
AREA
7140
HEIGHT
4418
16-Jun-2023
12:18
ALSHS
Server




**AFTER**

MASS
82
AREA
4012
HEIGHT
4226
29-Jun-2023
14:26
ALSHS
Ser



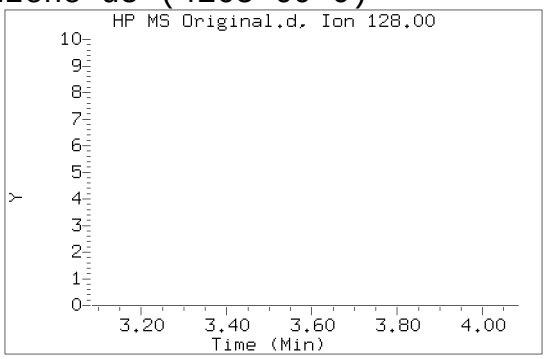
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

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

Reason Code:

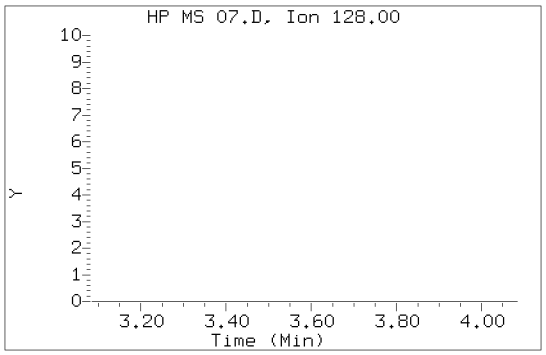
**BEFORE**

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



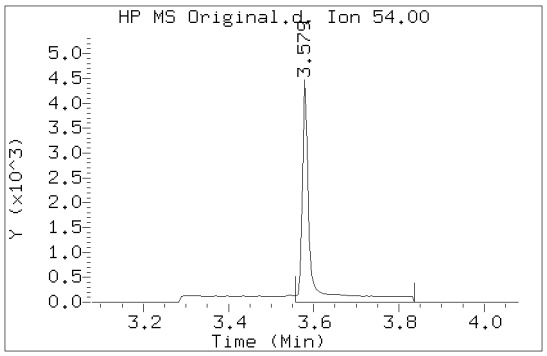

**AFTER**

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



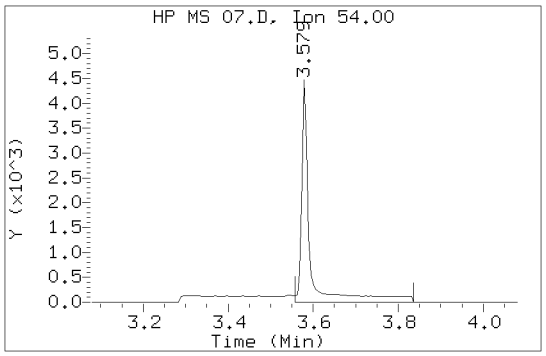

**BEFORE**

MASS
54
AREA
6137
HEIGHT
4470
16-Jun-2023
12:18
ALSHS
Server




**AFTER**

MASS
54
AREA
6137
HEIGHT
4470
29-Jun-2023
14:26
ALSHS
Ser

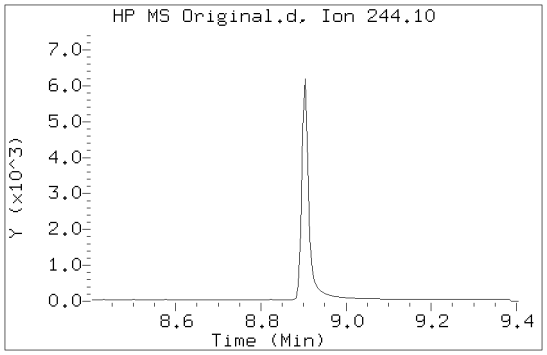



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

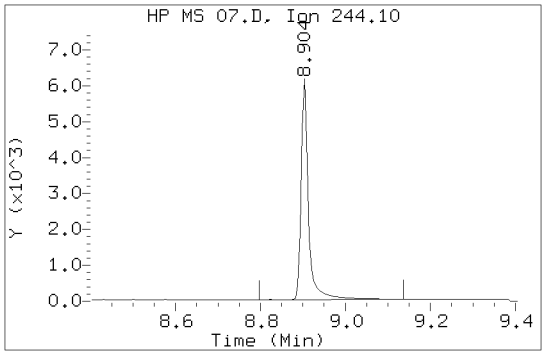
**BEFORE**

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



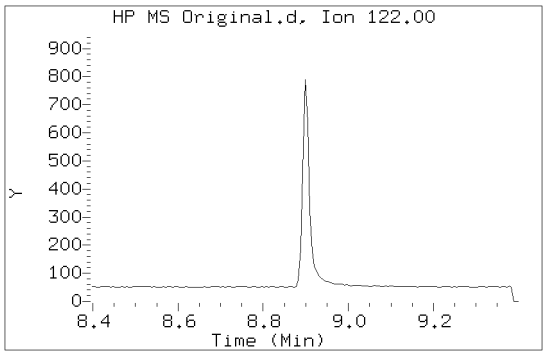

**AFTER**

MASS
244.1
AREA
7185
HEIGHT
6143
29-Jun-2023
14:26
ALSHS
Ser



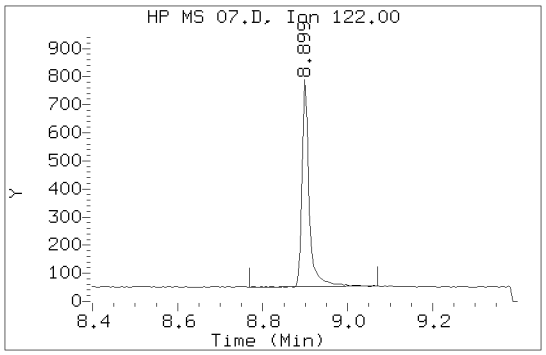

**BEFORE**

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server




**AFTER**

MASS
122
AREA
850
HEIGHT
736
29-Jun-2023
14:26
ALSHS
Ser



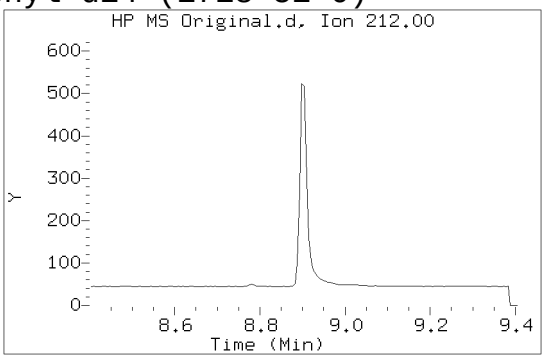
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Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

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

Reason Code:

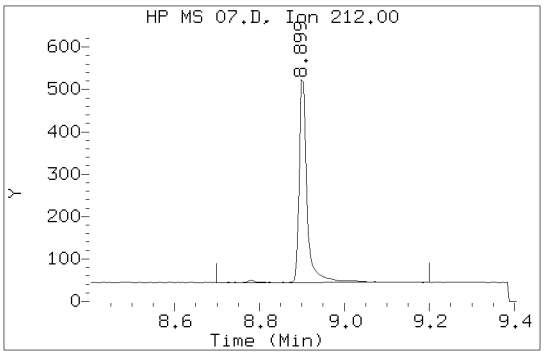
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server




AFTER

MASS
212
AREA
622
HEIGHT
478
29-Jun-2023
14:26
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Lab Smp Id: 14DXICAL-0.15 Client Smp ID: 14DXICAL-0.15
Inj Date : 16-JUN-2023 12:38
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:20 Cal File: 08.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.128 | 3.128 | (1.000) | 3901 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 4.220 | 4.220 | (1.000) | 13349 | 0.10000 | |
| $ 33 Nitrobenzene-d5 | 82 | 3.584 | 3.584 | (0.849) | 6134 | 0.15000 | 0.1520(AQM) |
| * 86 Acenaphthene-d10 | 164 | 5.883 | 5.883 | (1.000) | 7708 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 5.245 | 5.245 | (0.891) | 11636 | 0.15000 | 0.1474 |
| * 126 Phenanthrene-d10 | 188 | 7.323 | 7.323 | (1.000) | 15157 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 10.018 | 10.018 | (1.000) | 10131 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.904 | 8.904 | (0.889) | 10881 | 0.15000 | 0.1472(M) |
| * 198 Perylene-d12 | 264 | 11.940 | 11.940 | (1.000) | 7987 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.464 | 1.464 | (0.468) | 1980 | 0.15000 | 0.1507(QH) |

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.
H - Operator selected an alternate compound hit.

01195833

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D

Page 1

Date : 16-JUN-2023 12:38

Client ID: 14DXICAL-0.15

Instrument: SV6.i

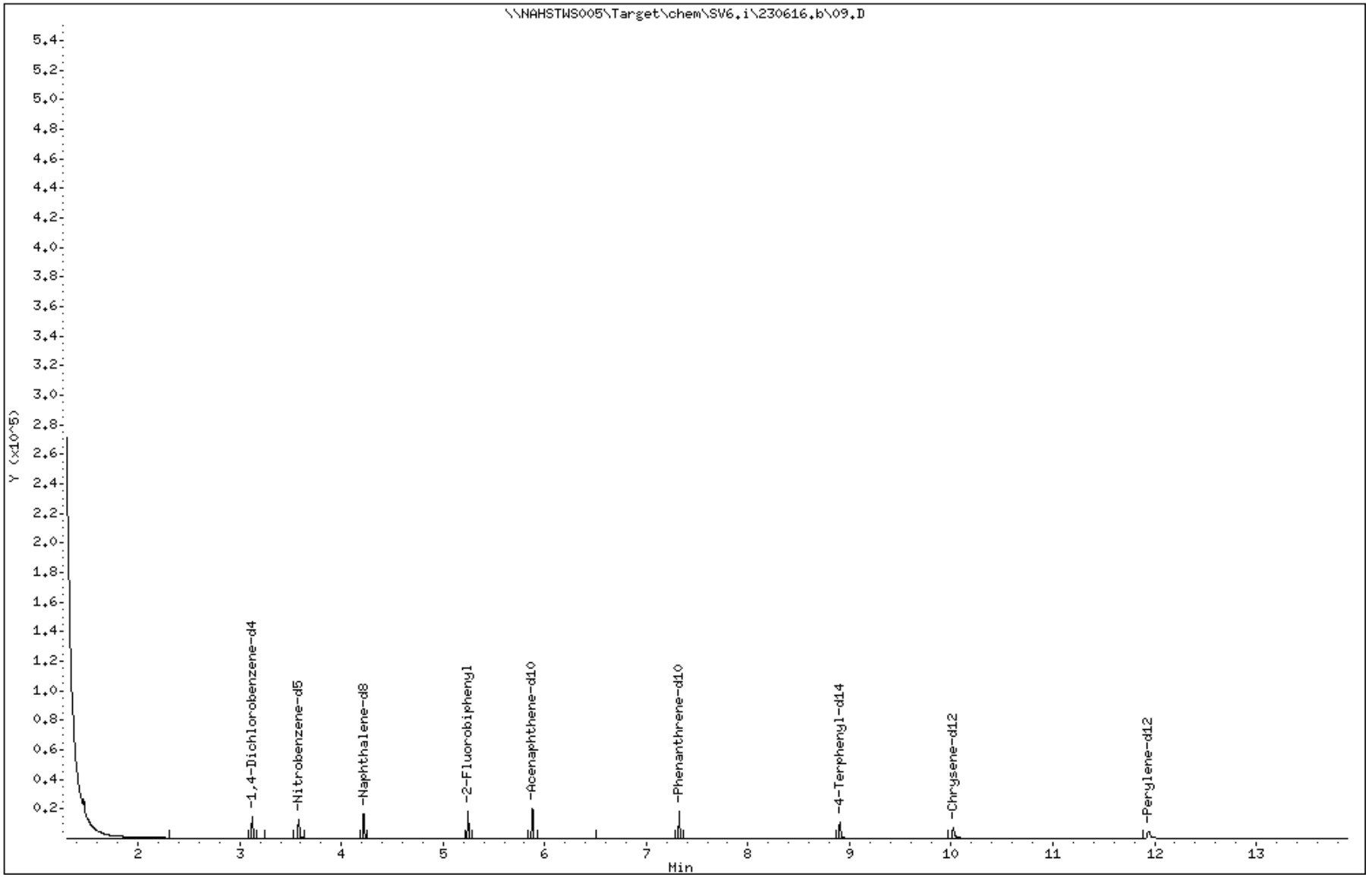
Sample Info: 14DXICAL-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



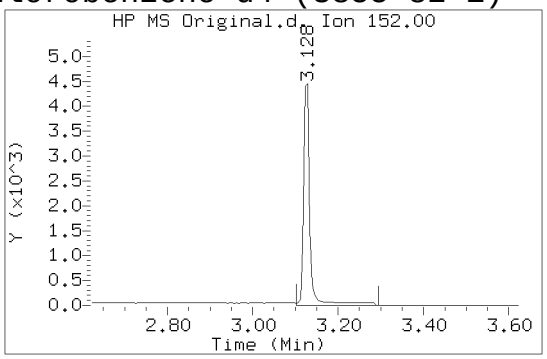
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Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

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

Reason Code:

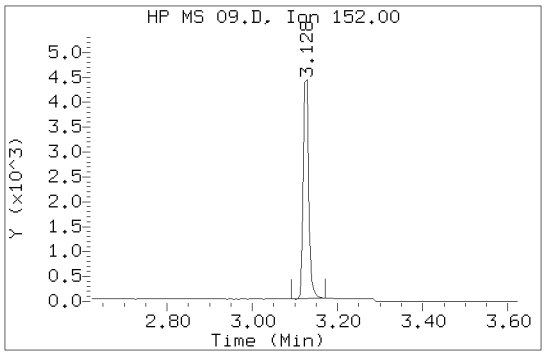
**BEFORE**

MASS
152
AREA
4505
HEIGHT
4453
16-Jun-2023
12:57
ALSHS
Server



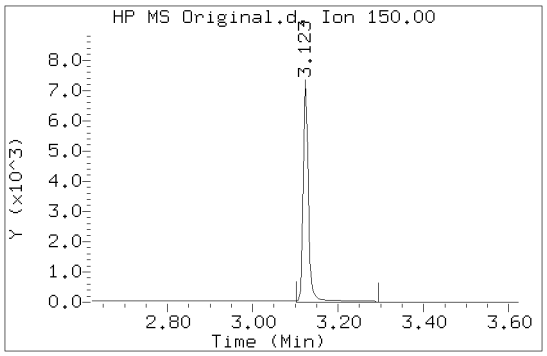

**AFTER**

MASS
152
AREA
3901
HEIGHT
4398
29-Jun-2023
14:27
ALSHS
Ser



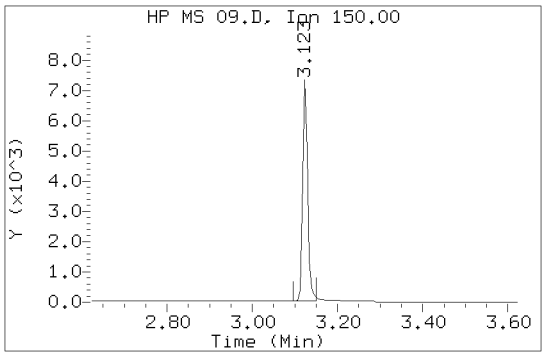

**BEFORE**

MASS
150
AREA
6326
HEIGHT
7351
16-Jun-2023
12:57
ALSHS
Server



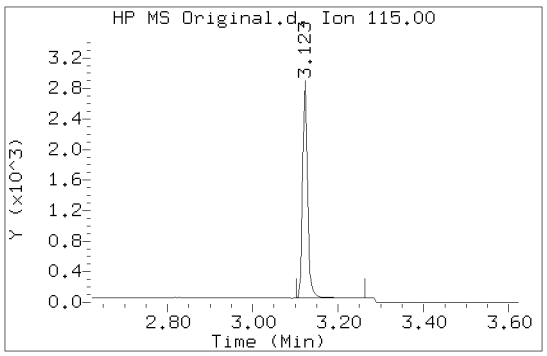

**AFTER**

MASS
150
AREA
5706
HEIGHT
7305
29-Jun-2023
14:27
ALSHS
Ser



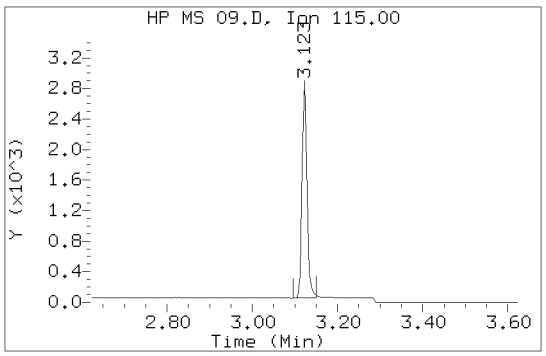

**BEFORE**

MASS
115
AREA
2255
HEIGHT
2847
16-Jun-2023
12:57
ALSHS
Server




**AFTER**

MASS
115
AREA
2210
HEIGHT
2846
29-Jun-2023
14:27
ALSHS
Ser

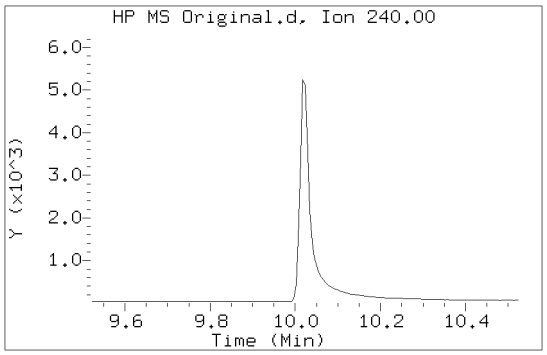



## Chrysene-d12 (1719-03-5)

Reason Code:

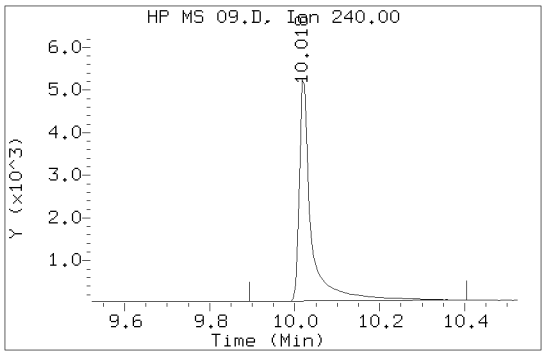
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server




**AFTER**

MASS
240
AREA
10131
HEIGHT
5190
29-Jun-2023
14:27
ALSHS
Ser



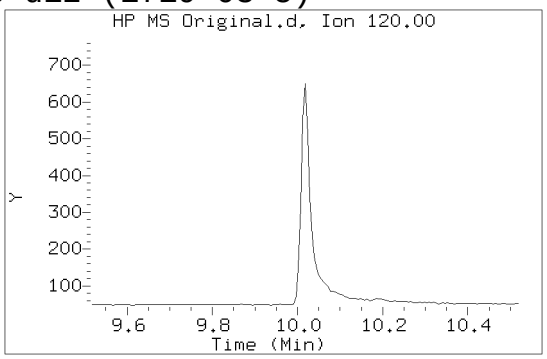
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

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

Reason Code:

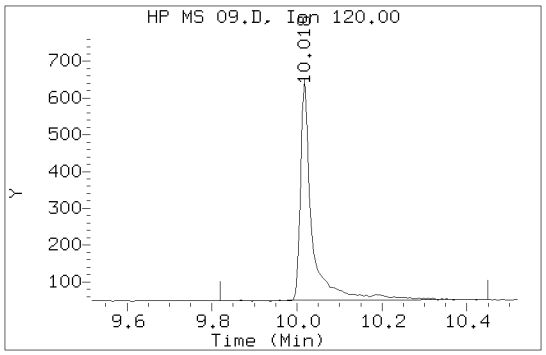
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



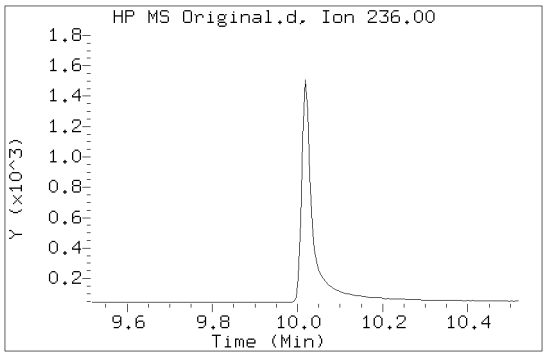

AFTER

MASS
120
AREA
1131
HEIGHT
600
29-Jun-2023
14:27
ALSHS
Ser



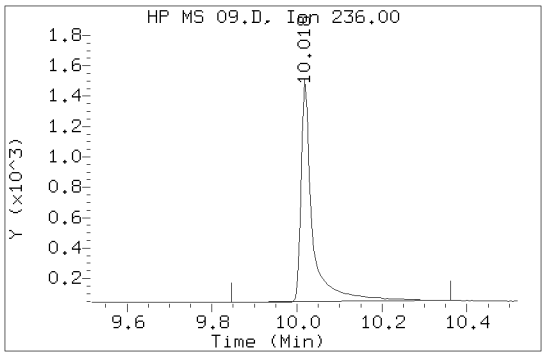

BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server




AFTER

MASS
236
AREA
2695
HEIGHT
1458
29-Jun-2023
14:27
ALSHS
Ser

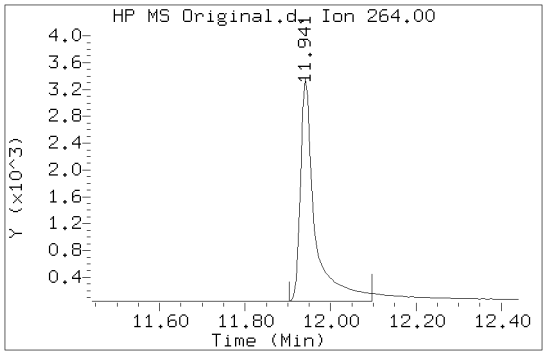



## Perylene-d12 (1520-96-3)

Reason Code:

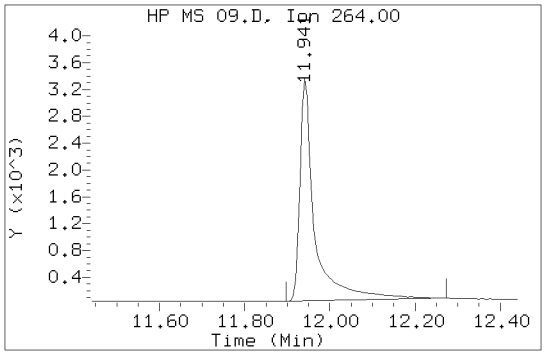
BEFORE

MASS
264
AREA
7735
HEIGHT
3310
16-Jun-2023
12:57
ALSHS
Server



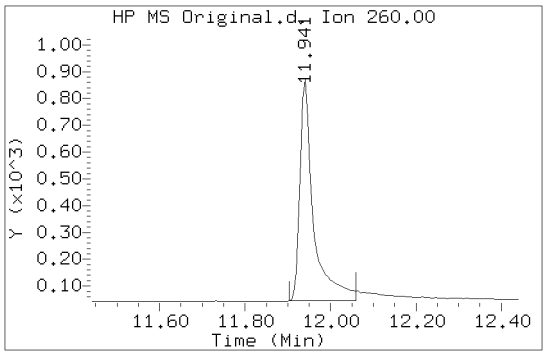

AFTER

MASS
264
AREA
7987
HEIGHT
3307
29-Jun-2023
14:27
ALSHS
Ser



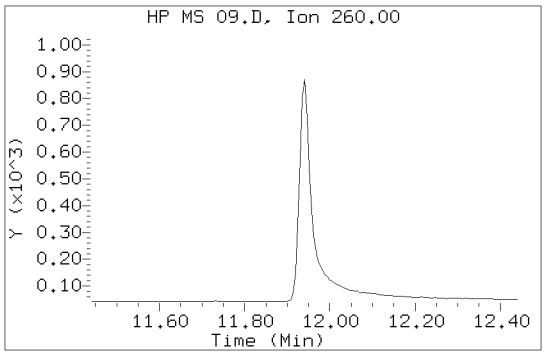

BEFORE

MASS
260
AREA
1816
HEIGHT
824
16-Jun-2023
12:57
ALSHS
Server




AFTER

MASS
260
AREA
2012
HEIGHT
823
29-Jun-2023
14:27
ALSHS
Ser



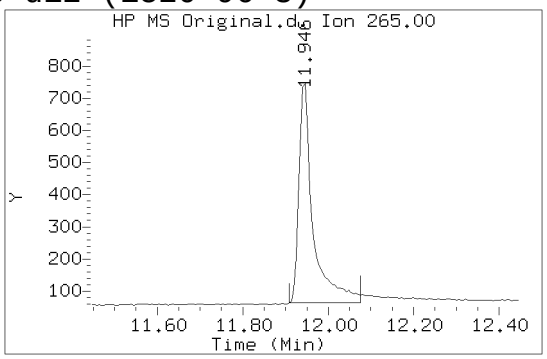
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Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

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

Reason Code:

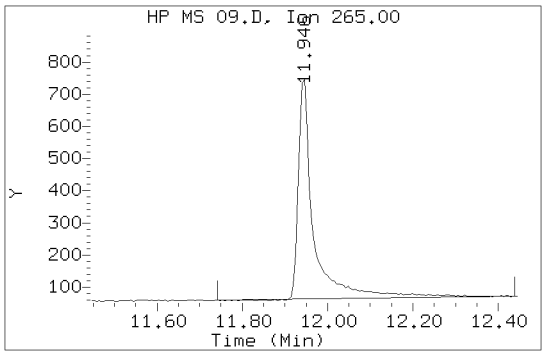
**BEFORE**

MASS
265
AREA
1571
HEIGHT
682
16-Jun-2023
12:57
ALSHS
Server




**AFTER**

MASS
265
AREA
1706
HEIGHT
682
29-Jun-2023
14:27
ALSHS
Ser

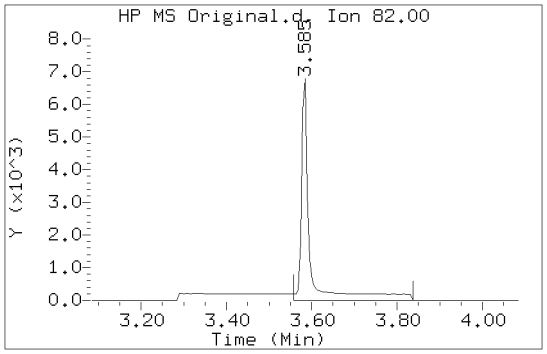



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

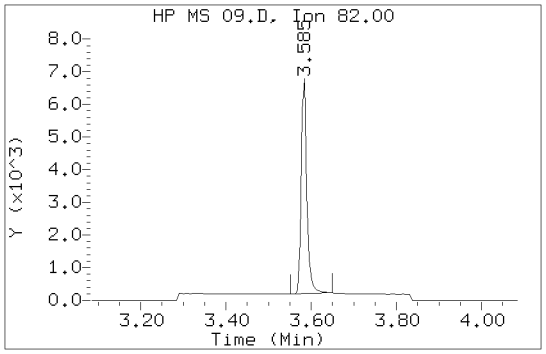
**BEFORE**

MASS
82
AREA
9487
HEIGHT
6787
16-Jun-2023
12:57
ALSHS
Server



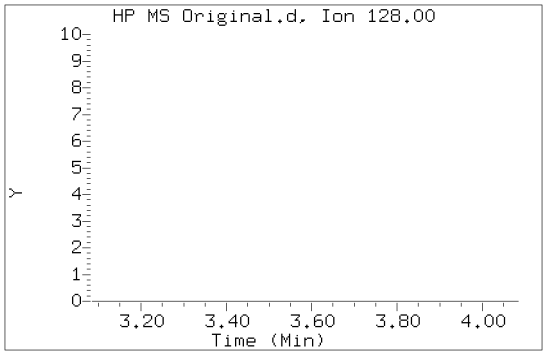

**AFTER**

MASS
82
AREA
6134
HEIGHT
6582
29-Jun-2023
14:27
ALSHS
Ser



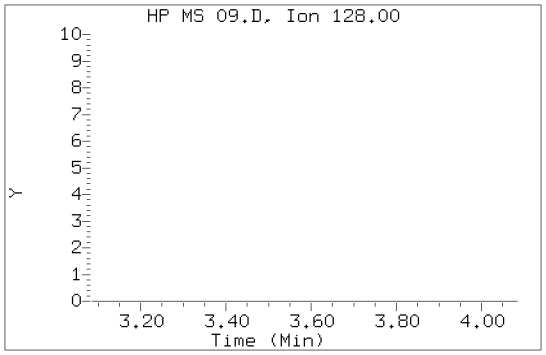

**BEFORE**

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



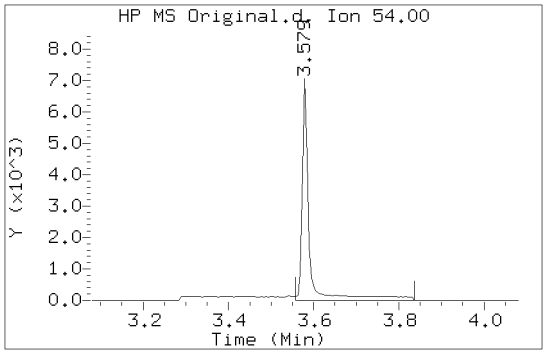

**AFTER**

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



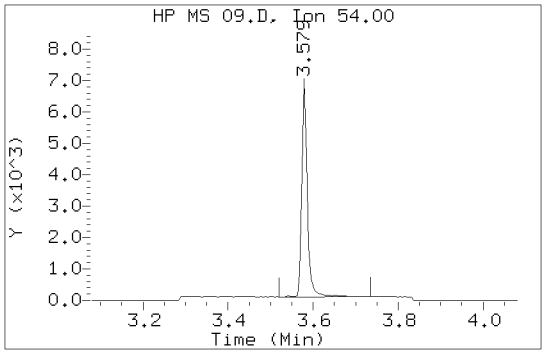

**BEFORE**

MASS
54
AREA
8200
HEIGHT
7059
16-Jun-2023
12:57
ALSHS
Server




**AFTER**

MASS
54
AREA
6294
HEIGHT
6945
29-Jun-2023
14:27
ALSHS
Ser

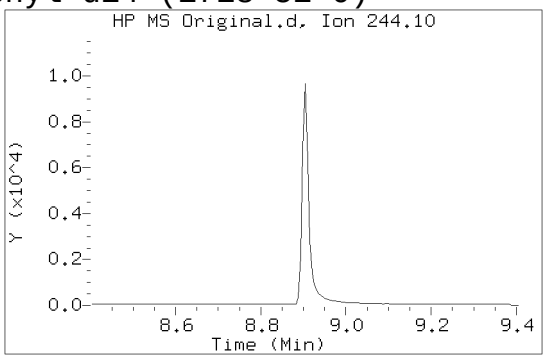


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

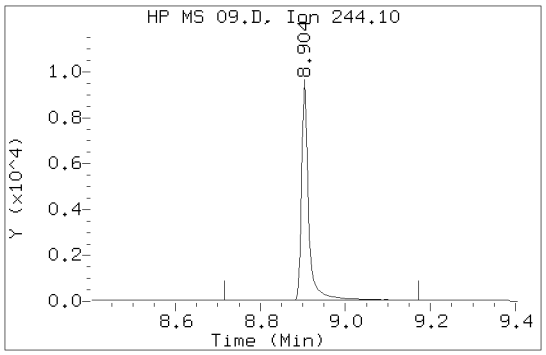
4-Terphenyl-d14 (1718-51-0)

Reason Code:

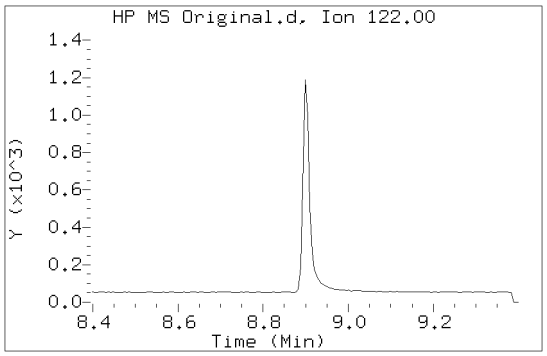
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



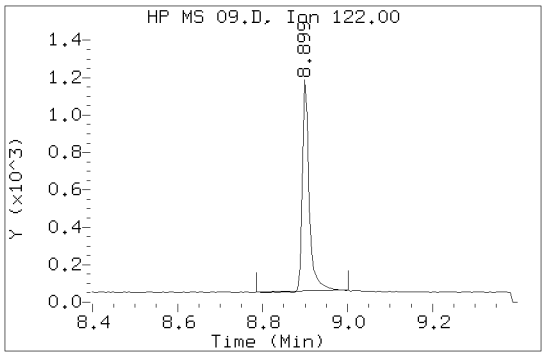

AFTER
MASS
244.1
AREA
10881
HEIGHT
9614
29-Jun-2023
14:27
ALSHS
Ser



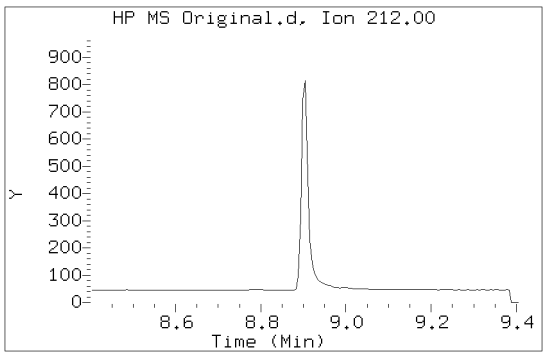

BEFORE
MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



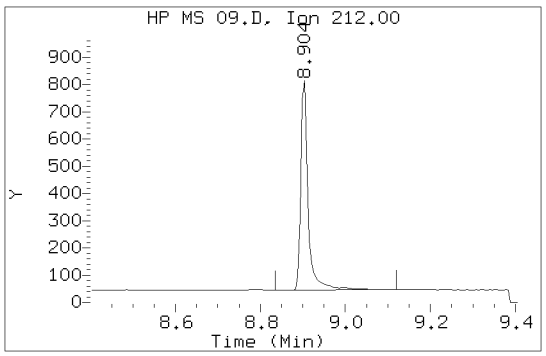

AFTER
MASS
122
AREA
1222
HEIGHT
1128
29-Jun-2023
14:27
ALSHS
Ser




BEFORE
MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server




AFTER
MASS
212
AREA
918
HEIGHT
769
29-Jun-2023
14:27
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D Page 1
Report Date: 29-Jun-2023 15:48

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Lab Smp Id: 14DXICAL-0.1 Client Smp ID: 14DXICAL-0.1
Inj Date : 16-JUN-2023 14:15
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.1
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 15:48 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.128 | 3.128 | (1.000) | 4026 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 4.220 | 4.220 | (1.000) | 13383 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.584 | 3.584 | (0.849) | 4123 | 0.10000 | 0.1019(QM) |
| * 86 Acenaphthene-d10 | 164 | 5.883 | 5.883 | (1.000) | 7945 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 5.248 | 5.248 | (0.892) | 7708 | 0.10000 | 0.09473(M) |
| * 126 Phenanthrene-d10 | 188 | 7.328 | 7.328 | (1.000) | 15519 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 10.028 | 10.028 | (1.000) | 9988 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.909 | 8.909 | (0.888) | 7529 | 0.10000 | 0.1033(M) |
| * 198 Perylene-d12 | 264 | 11.946 | 11.946 | (1.000) | 8963 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.471 | 1.471 | (0.470) | 1445 | 0.10000 | 0.1066(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.

01195839

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D



Date : 16-JUN-2023 14:15

Client ID: 14DXICAL-0.1

Instrument: SV6.i

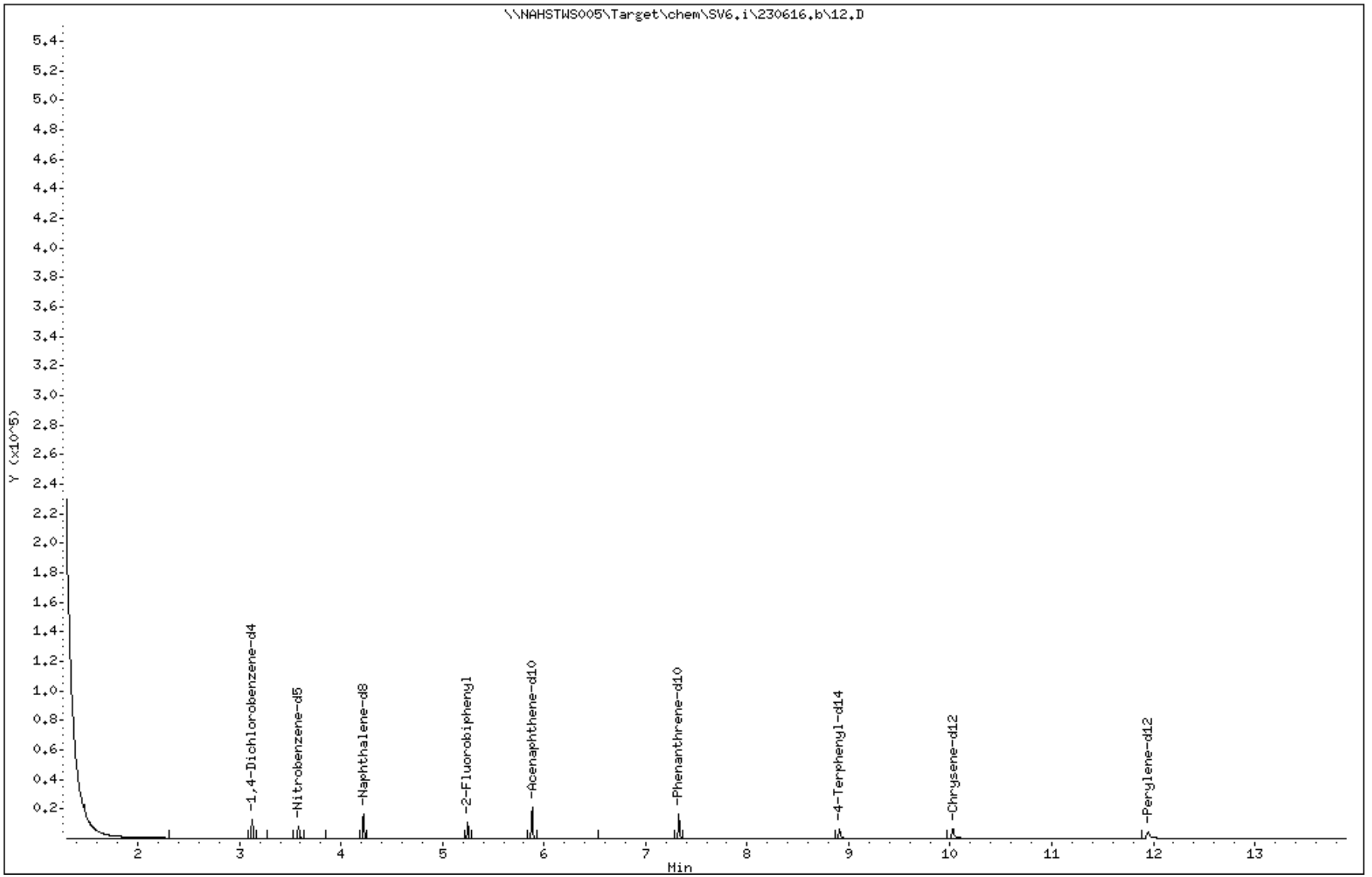
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Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

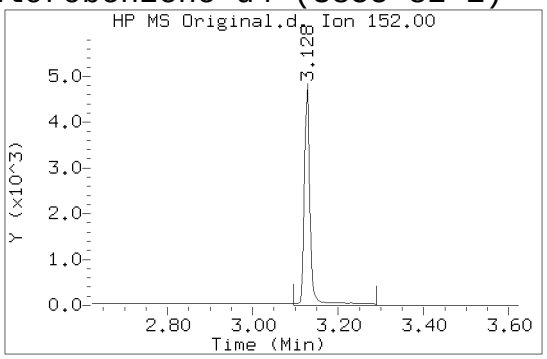


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Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

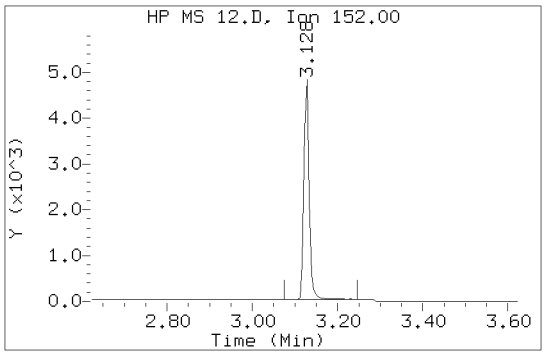
## 1,4-Dichlorobenzene-d4 (3855-82-1)

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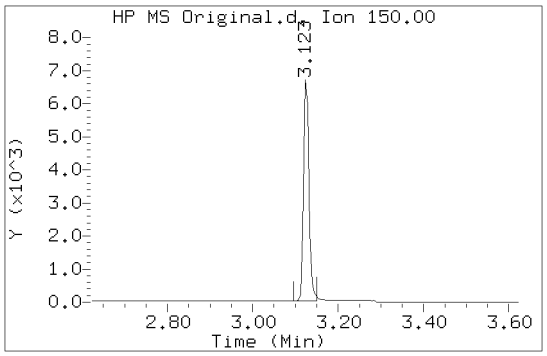
BEFORE
MASS
152
AREA
4570
HEIGHT
4842
16-Jun-2023
14:59
jiayi
lu



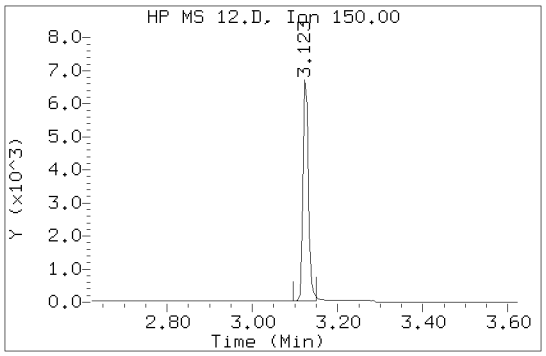

AFTER
MASS
152
AREA
4026
HEIGHT
4796
29-Jun-2023
15:48



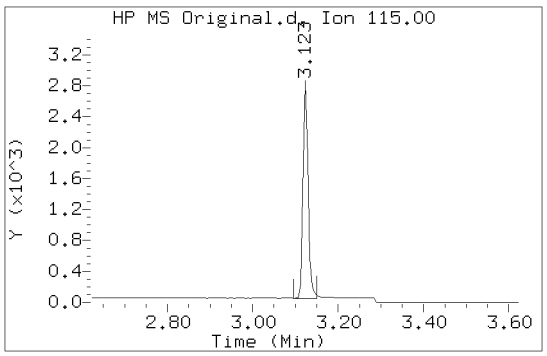

BEFORE
MASS
150
AREA
5752
HEIGHT
6676
16-Jun-2023
14:59
jiayi
lu



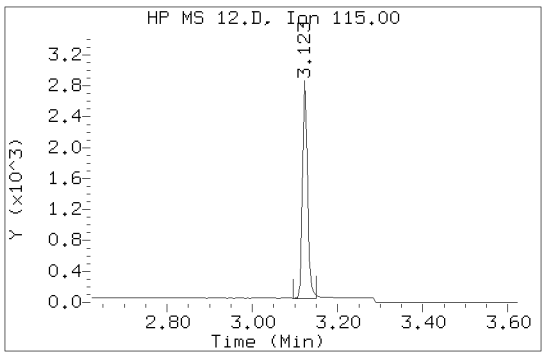

AFTER
MASS
150
AREA
5752
HEIGHT
6676
29-Jun-2023
15:48




BEFORE
MASS
115
AREA
2249
HEIGHT
2814
16-Jun-2023
14:59
jiayi
lu



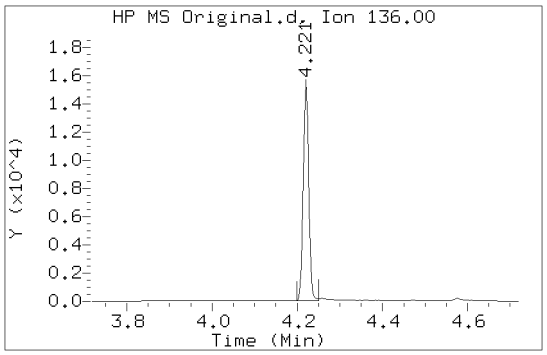

AFTER
MASS
115
AREA
2249
HEIGHT
2814
29-Jun-2023
15:48



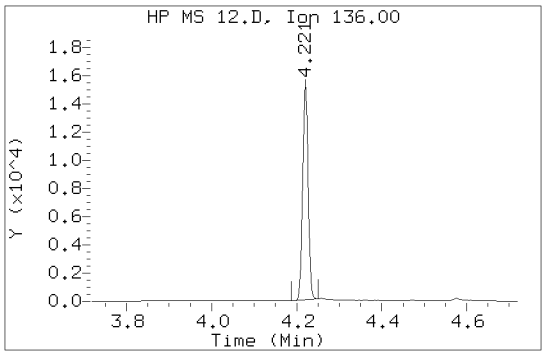

## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
13619
HEIGHT
15676
16-Jun-2023
14:59
jiayi
lu




AFTER
MASS
136
AREA
13383
HEIGHT
15614
29-Jun-2023
15:48



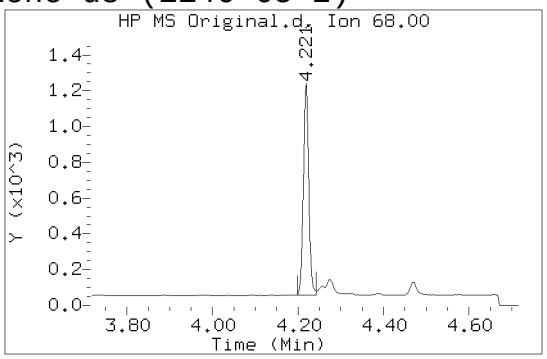
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Inj Date : 16-JUN-2023 14:15
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## Naphthalene-d8 (1146-65-2)

Reason Code:

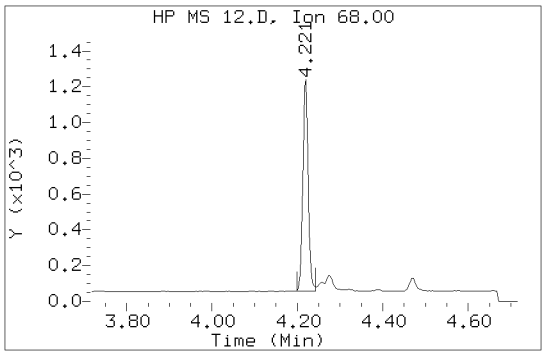
**BEFORE**

MASS
68
AREA
1062
HEIGHT
1182
16-Jun-2023
14:59
jiayi
lu




**AFTER**

MASS
68
AREA
1062
HEIGHT
1182
29-Jun-2023
15:48

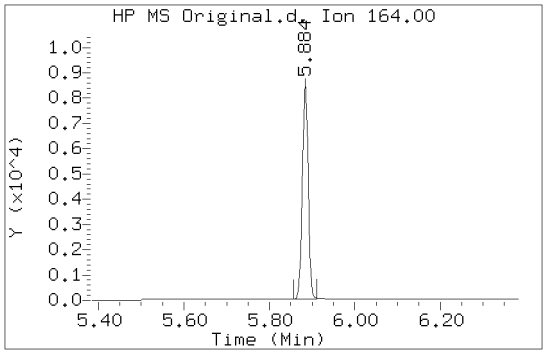



## Acenaphthene-d10 (15067-26-2)

Reason Code:

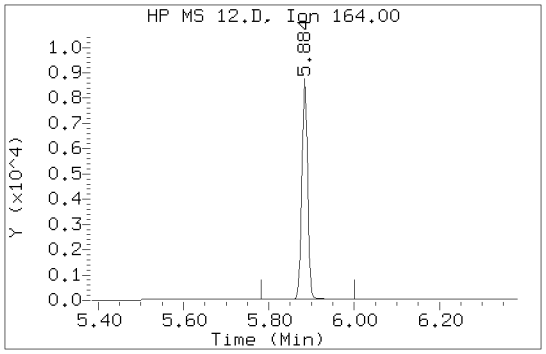
**BEFORE**

MASS
164
AREA
7893
HEIGHT
8717
16-Jun-2023
14:59
jiayi
lu



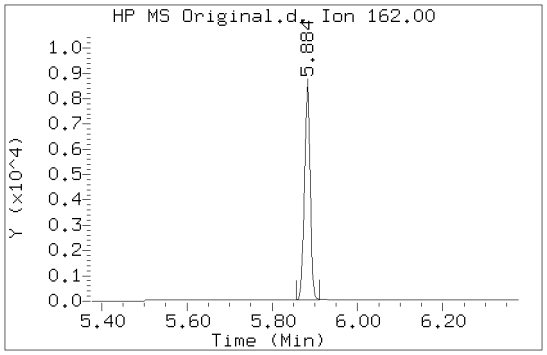

**AFTER**

MASS
164
AREA
7945
HEIGHT
8719
29-Jun-2023
15:48



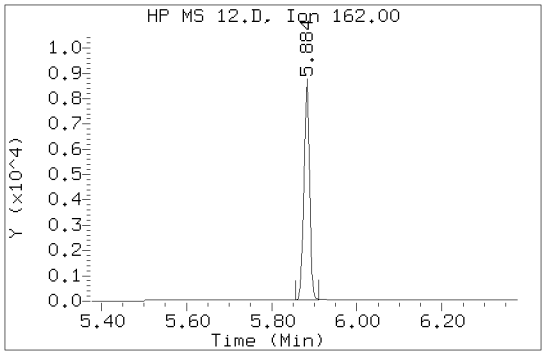

**BEFORE**

MASS
162
AREA
7978
HEIGHT
8729
16-Jun-2023
14:59
jiayi
lu



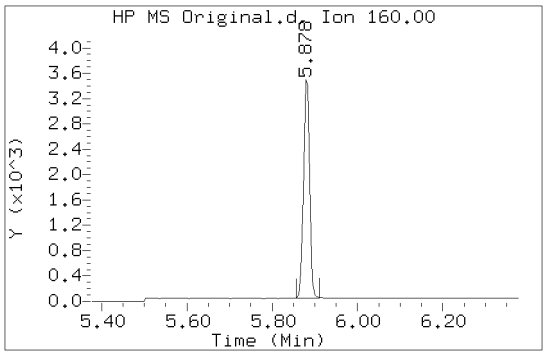

**AFTER**

MASS
162
AREA
7978
HEIGHT
8729
29-Jun-2023
15:48



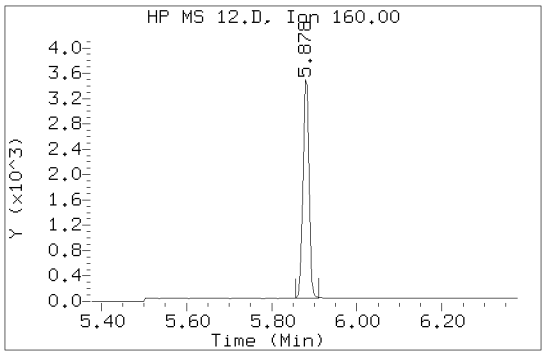

**BEFORE**

MASS
160
AREA
3420
HEIGHT
3449
16-Jun-2023
14:59
jiayi
lu




**AFTER**

MASS
160
AREA
3420
HEIGHT
3449
29-Jun-2023
15:48

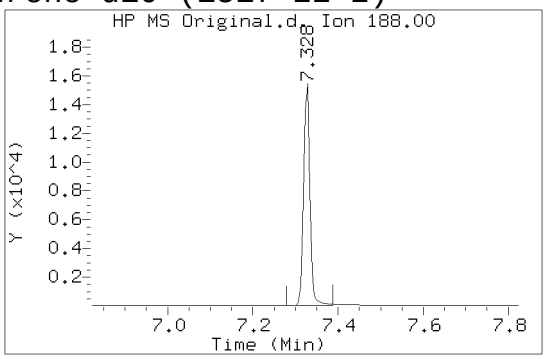


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LabSampID : 14DXICAL-0.1

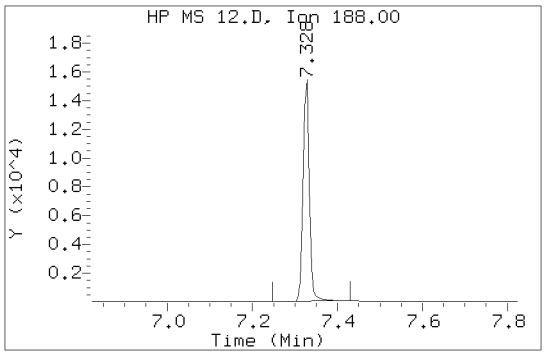
## Phenanthrene-d10 (1517-22-2)

Reason Code:

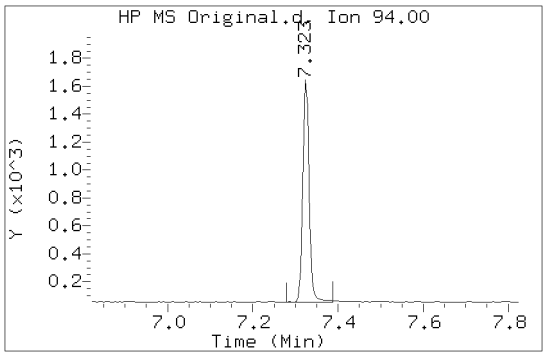
**BEFORE**
MASS
188
AREA
15580
HEIGHT
15412
16-Jun-2023
14:59
jiayi
lu



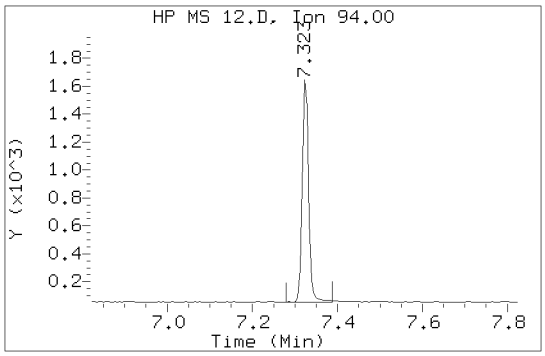

**AFTER**
MASS
188
AREA
15519
HEIGHT
15398
29-Jun-2023
15:48



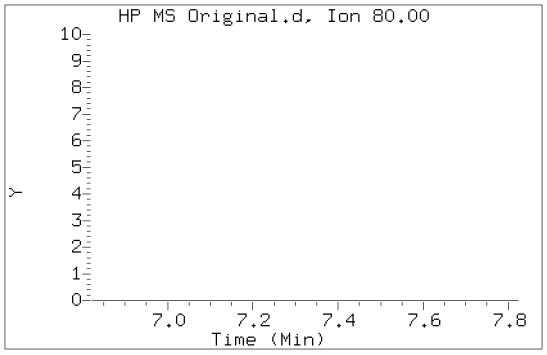

**BEFORE**
MASS
94
AREA
1615
HEIGHT
1589
16-Jun-2023
14:59
jiayi
lu



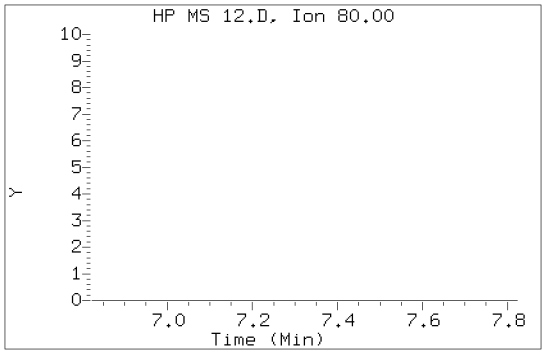

**AFTER**
MASS
94
AREA
1615
HEIGHT
1589
29-Jun-2023
15:48




**BEFORE**
MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



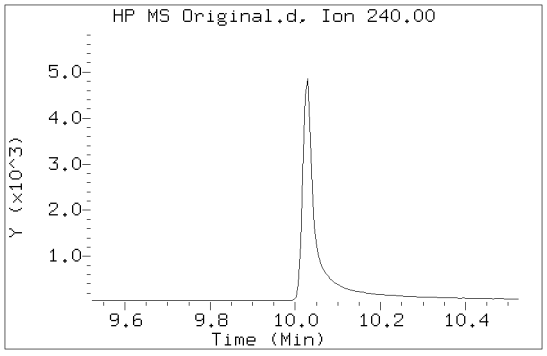

**AFTER**
MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
15:48



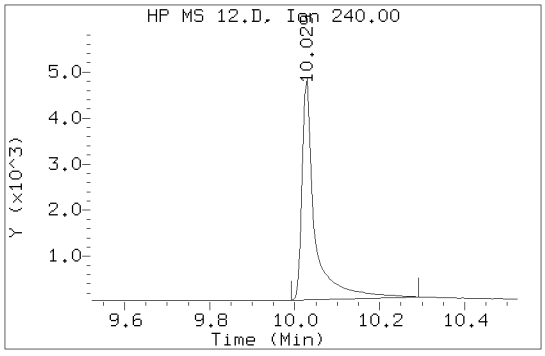

## Chrysene-d12 (1719-03-5)

Reason Code:

**BEFORE**
MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu




**AFTER**
MASS
240
AREA
9988
HEIGHT
4801
29-Jun-2023
15:48

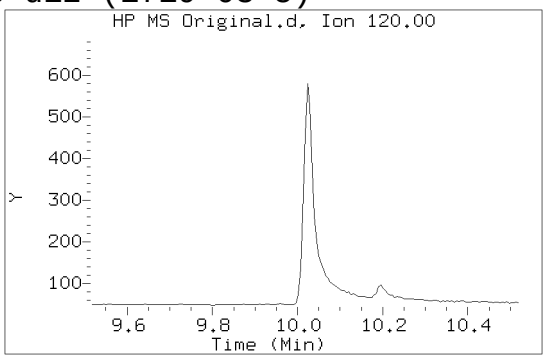


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LabSampID : 14DXICAL-0.1

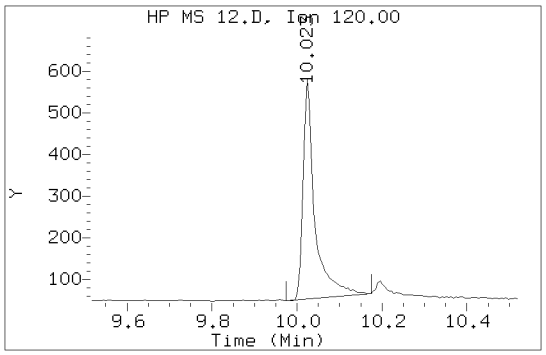
## Chrysene-d12 (1719-03-5)

Reason Code:

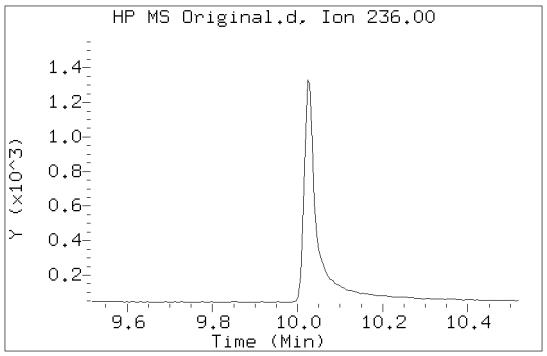
**BEFORE**
MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



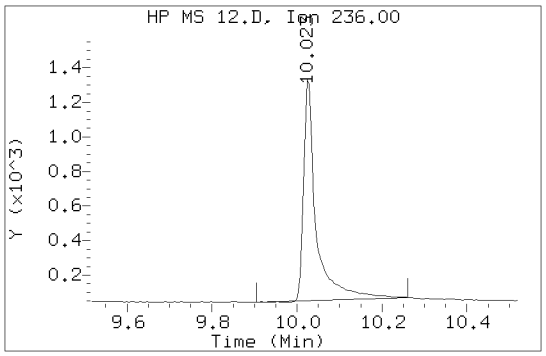

**AFTER**
MASS
120
AREA
998
HEIGHT
525
29-Jun-2023
15:48




**BEFORE**
MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



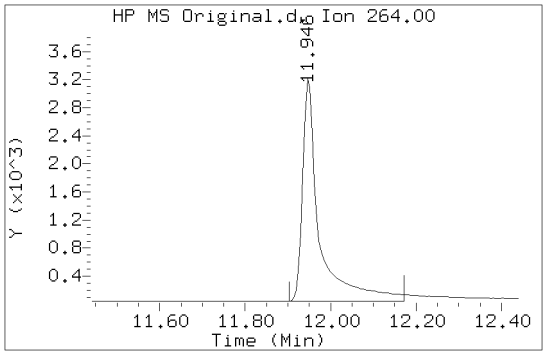

**AFTER**
MASS
236
AREA
2622
HEIGHT
1277
29-Jun-2023
15:48



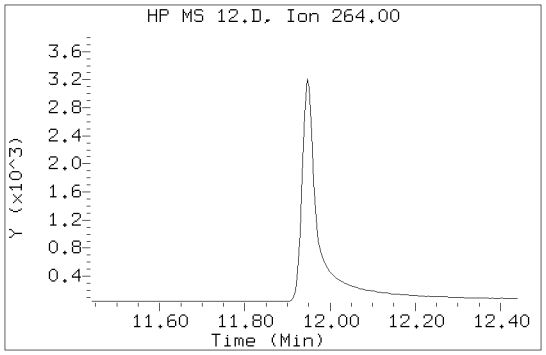

## Perylene-d12 (1520-96-3)

Reason Code:

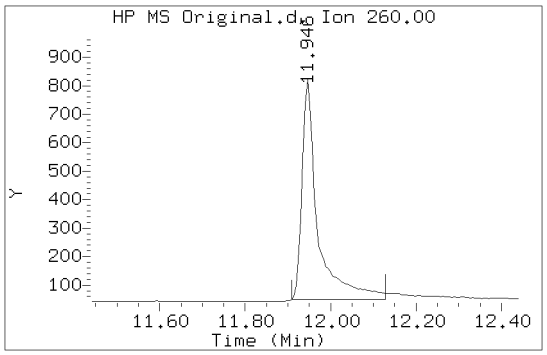
**BEFORE**
MASS
264
AREA
8613
HEIGHT
3164
16-Jun-2023
14:59
jiayi
lu



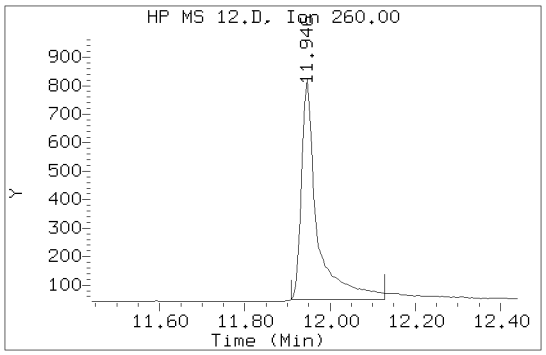

**AFTER**
MASS
264
AREA
8963
HEIGHT
3161
29-Jun-2023
15:48




**BEFORE**
MASS
260
AREA
1977
HEIGHT
772
16-Jun-2023
14:59
jiayi
lu




**AFTER**
MASS
260
AREA
1977
HEIGHT
772
29-Jun-2023
15:48



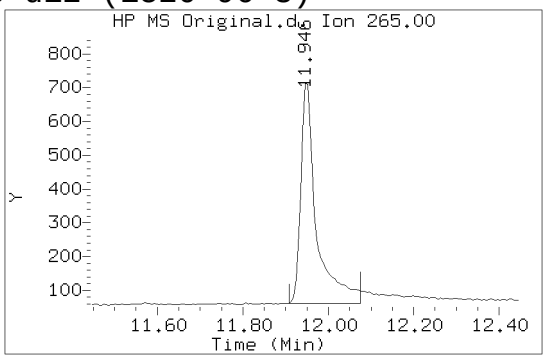
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InstruID : SV6.i
LabSampID : 14DXICAL-0.1

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

Reason Code:

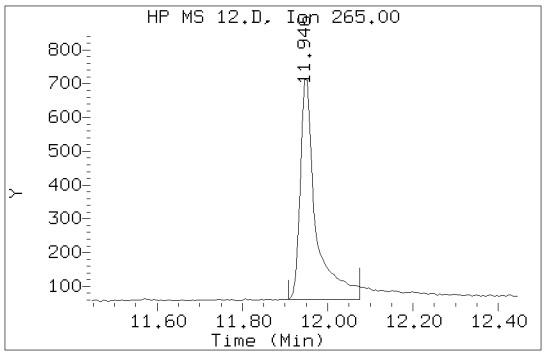
**BEFORE**

MASS
265
AREA
1666
HEIGHT
651
16-Jun-2023
14:59
jiayi
lu




**AFTER**

MASS
265
AREA
1666
HEIGHT
651
29-Jun-2023
15:48

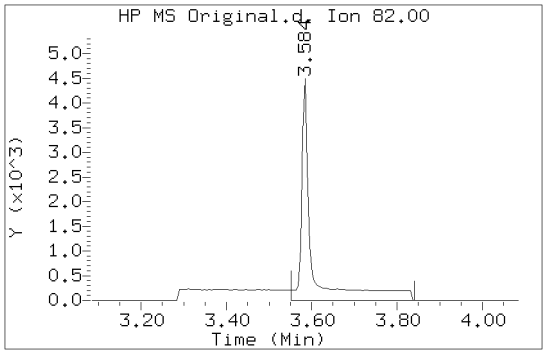



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

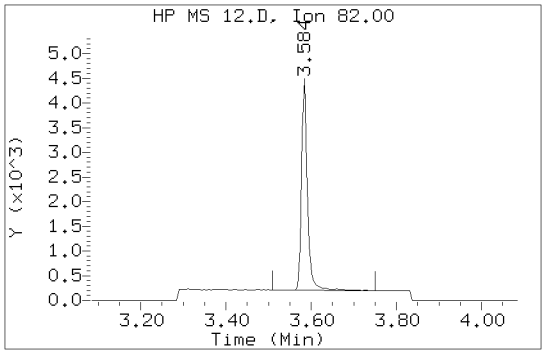
**BEFORE**

MASS
82
AREA
7524
HEIGHT
4492
16-Jun-2023
14:59
jiayi
lu



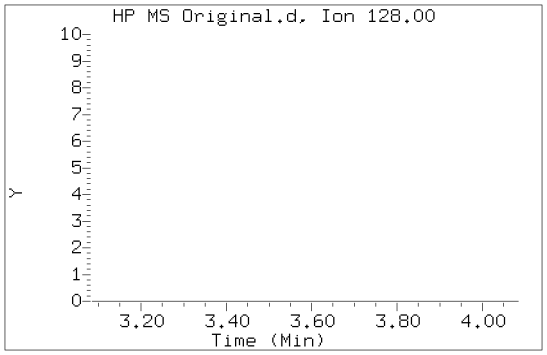

**AFTER**

MASS
82
AREA
4123
HEIGHT
4285
29-Jun-2023
15:48



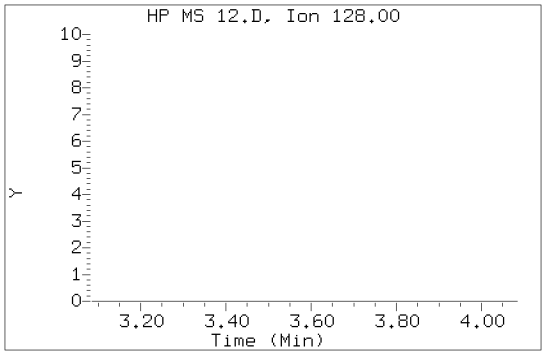

**BEFORE**

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



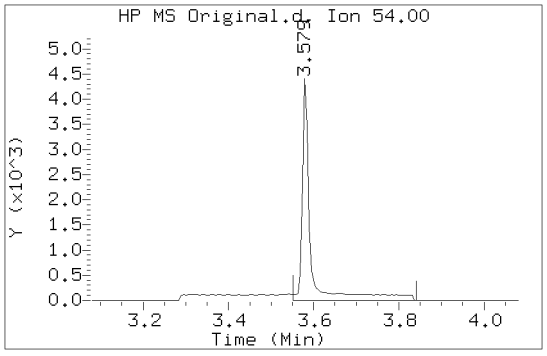

**AFTER**

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
15:48



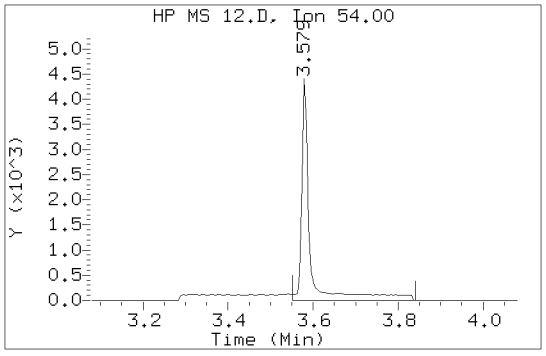

**BEFORE**

MASS
54
AREA
6015
HEIGHT
4407
16-Jun-2023
14:59
jiayi
lu




**AFTER**

MASS
54
AREA
6015
HEIGHT
4407
29-Jun-2023
15:48

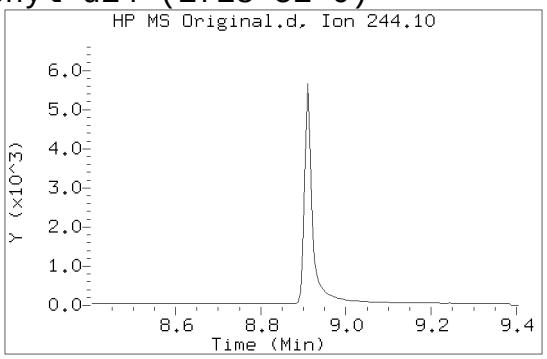


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

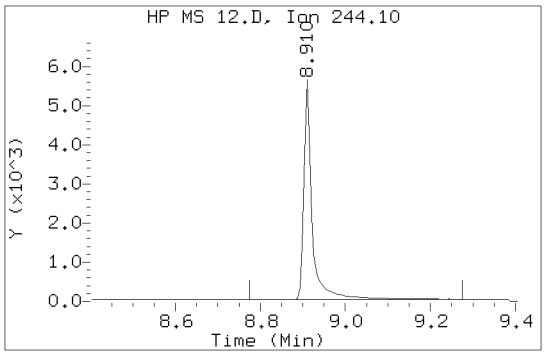
## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

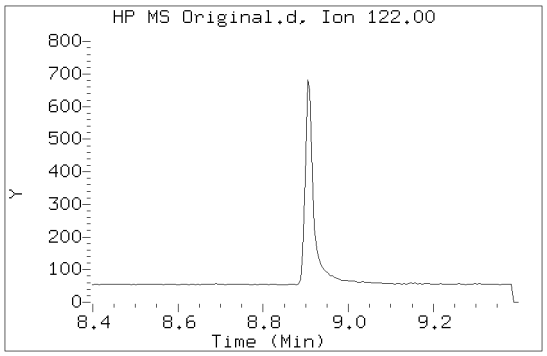
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



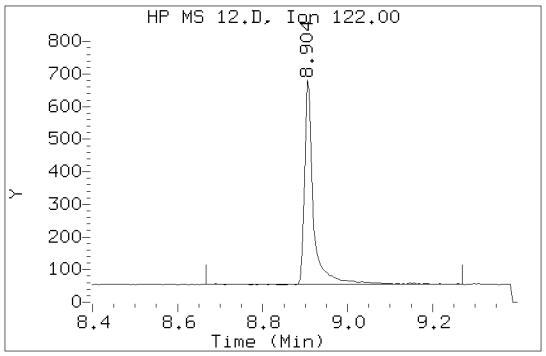

AFTER
MASS
244.1
AREA
7529
HEIGHT
5616
29-Jun-2023
15:48



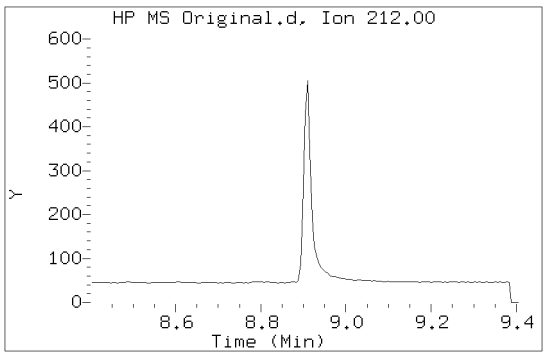

BEFORE
MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



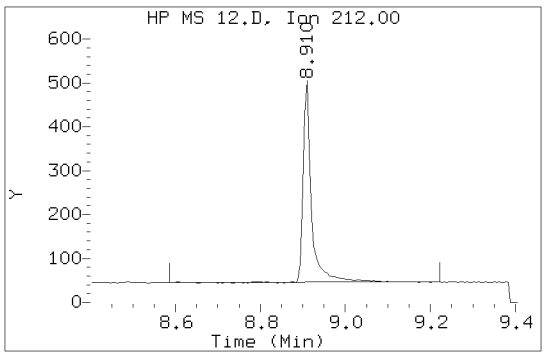

AFTER
MASS
122
AREA
918
HEIGHT
627
29-Jun-2023
15:48




BEFORE
MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



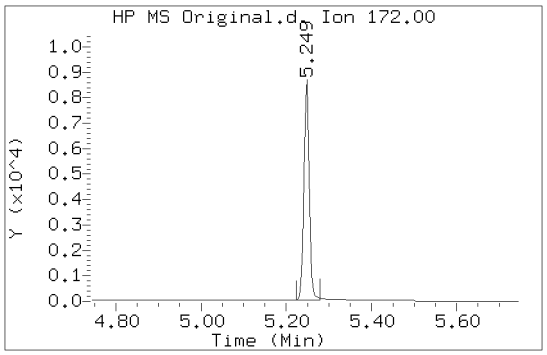

AFTER
MASS
212
AREA
625
HEIGHT
459
29-Jun-2023
15:48



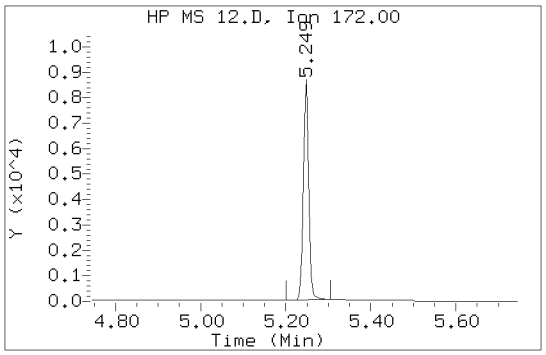

## 2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
7733
HEIGHT
8663
16-Jun-2023
14:59
jiayi
lu




AFTER
MASS
172
AREA
7708
HEIGHT
8650
29-Jun-2023
15:48



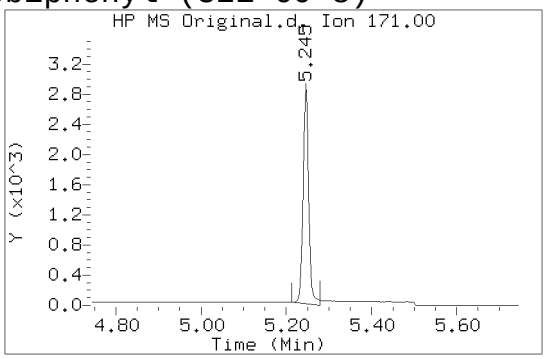
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

2-Fluorobiphenyl (321-60-8)

Reason Code:

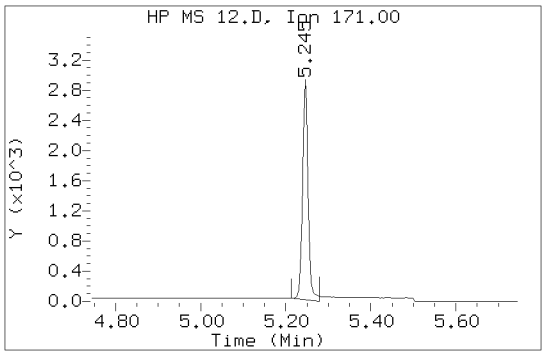
BEFORE

MASS
171
AREA
2685
HEIGHT
2917
16-Jun-2023
14:59
jiayi
lu




AFTER

MASS
171
AREA
2685
HEIGHT
2917
29-Jun-2023
15:48



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Lab Smp Id: 14DXICAL-0.5 Client Smp ID: 14DXICAL-0.5
Inj Date : 16-JUN-2023 14:51
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.5
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:38 Cal File: 09.D
Als bottle: 14 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.122 | 3.122 | (1.000) | 4165 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 4.220 | 4.220 | (1.000) | 13989 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.579 | 3.579 | (0.848) | 19311 | 0.50000 | 0.4566(AM) |
| * 86 Acenaphthene-d10 | 164 | 5.883 | 5.883 | (1.000) | 8414 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 5.245 | 5.245 | (0.891) | 39708 | 0.50000 | 0.4608(AM) |
| * 126 Phenanthrene-d10 | 188 | 7.322 | 7.322 | (1.000) | 16472 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 10.017 | 10.017 | (1.000) | 10483 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.904 | 8.904 | (0.889) | 39805 | 0.50000 | 0.5203(AM) |
| * 198 Perylene-d12 | 264 | 11.940 | 11.940 | (1.000) | 8460 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.452 | 1.452 | (0.465) | 6496 | 0.50000 | 0.4630(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.

01195849

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D

Page 1

Date : 16-JUN-2023 14:51

Client ID: 14DXICAL-0.5

Instrument: SV6.i

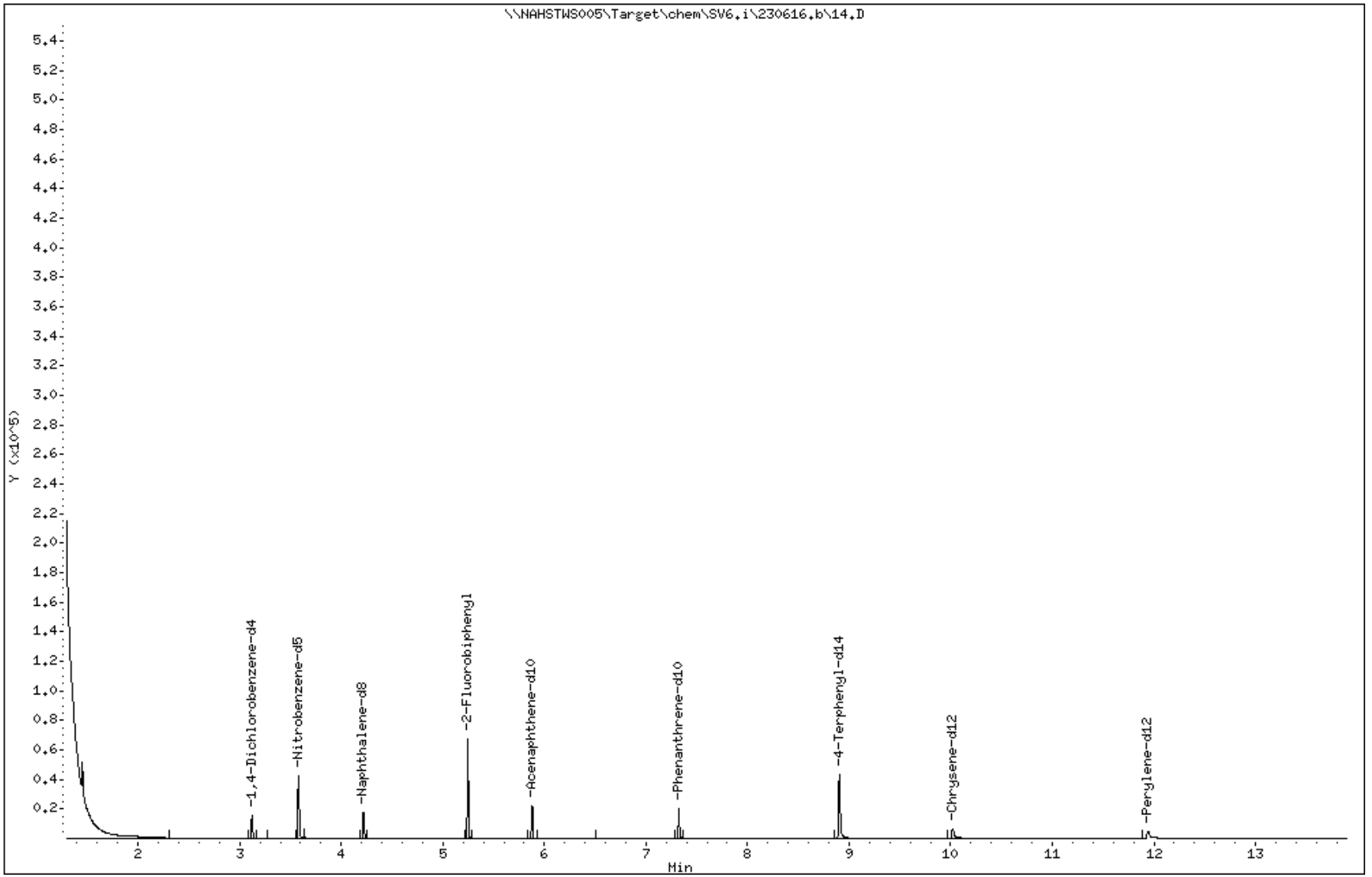
Sample Info: 14DXICAL-0.5

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



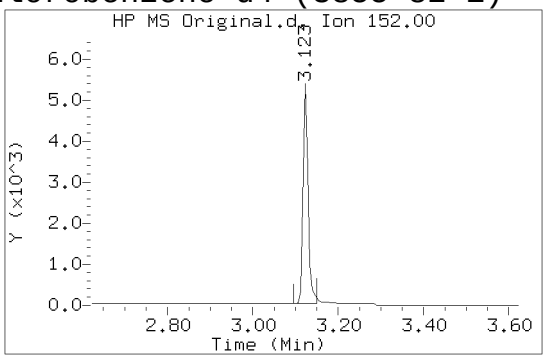
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

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

Reason Code:

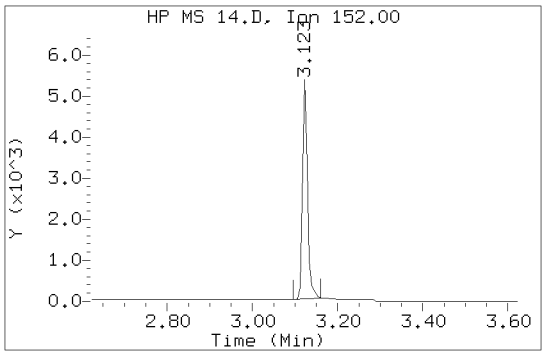
BEFORE

MASS
152
AREA
4211
HEIGHT
5358
16-Jun-2023
15:06
ALSHS
Server



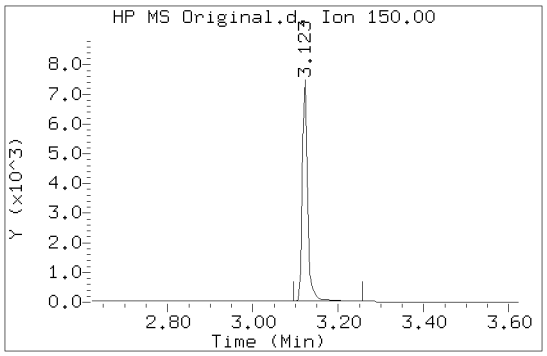

AFTER

MASS
152
AREA
4165
HEIGHT
5341
29-Jun-2023
14:27
ALSHS
Ser



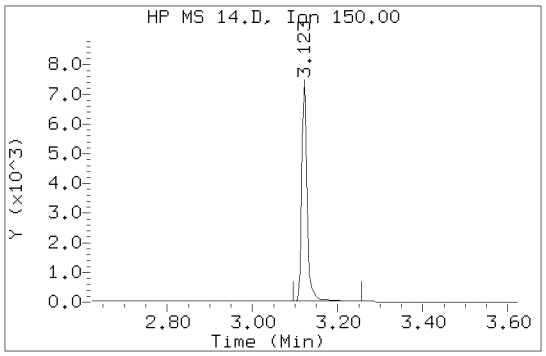

BEFORE

MASS
150
AREA
6228
HEIGHT
7441
16-Jun-2023
15:06
ALSHS
Server



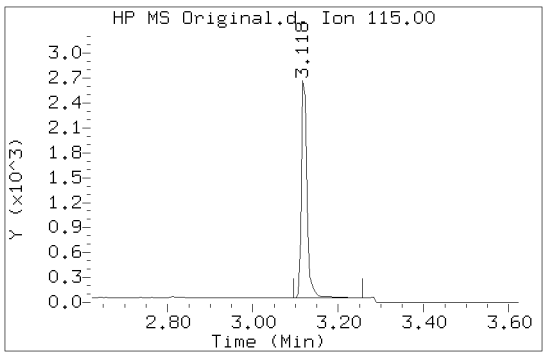

AFTER

MASS
150
AREA
6228
HEIGHT
7441
29-Jun-2023
14:27
ALSHS
Ser



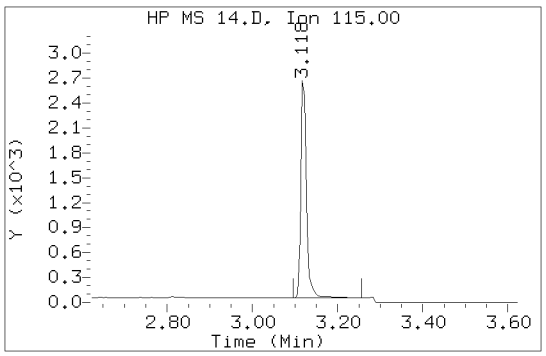

BEFORE

MASS
115
AREA
2367
HEIGHT
2615
16-Jun-2023
15:06
ALSHS
Server




AFTER

MASS
115
AREA
2367
HEIGHT
2615
29-Jun-2023
14:27
ALSHS
Ser

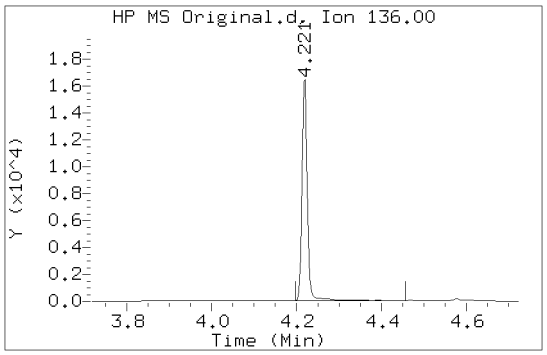



## Naphthalene-d8 (1146-65-2)

Reason Code:

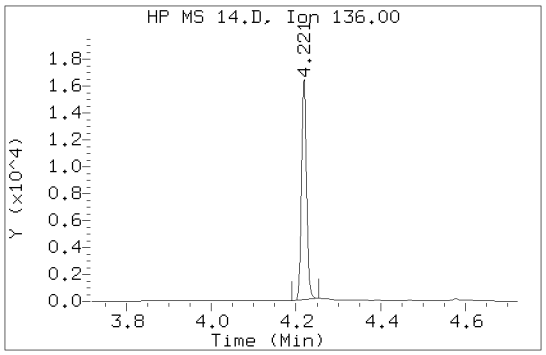
BEFORE

MASS
136
AREA
14856
HEIGHT
16448
16-Jun-2023
15:06
ALSHS
Server




AFTER

MASS
136
AREA
13989
HEIGHT
16349
29-Jun-2023
14:27
ALSHS
Ser



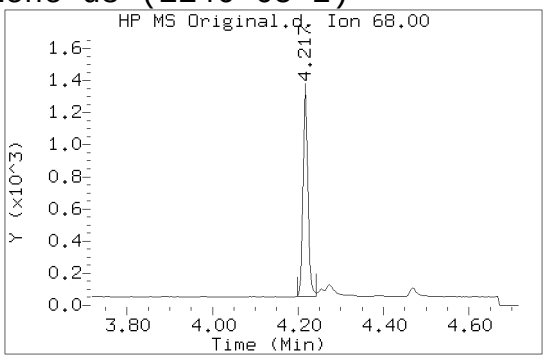
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Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

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

Reason Code:

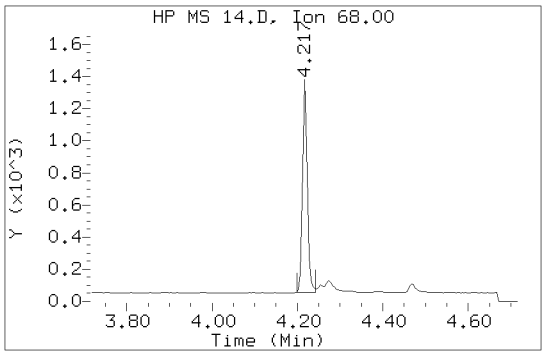
**BEFORE**

MASS
68
AREA
1074
HEIGHT
1326
16-Jun-2023
15:06
ALSHS
Server




**AFTER**

MASS
68
AREA
1074
HEIGHT
1326
29-Jun-2023
14:27
ALSHS
Ser

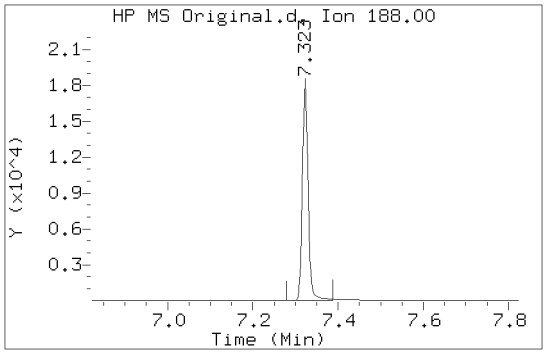



## Phenanthrene-d10 (1517-22-2)

Reason Code:

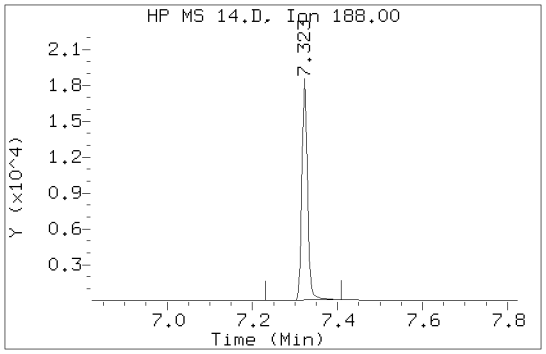
**BEFORE**

MASS
188
AREA
16664
HEIGHT
18523
16-Jun-2023
15:06
ALSHS
Server



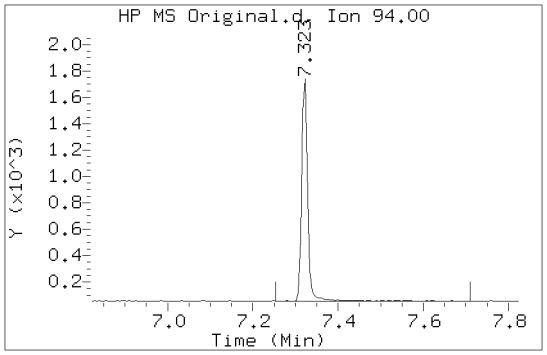

**AFTER**

MASS
188
AREA
16472
HEIGHT
18498
29-Jun-2023
14:27
ALSHS
Ser



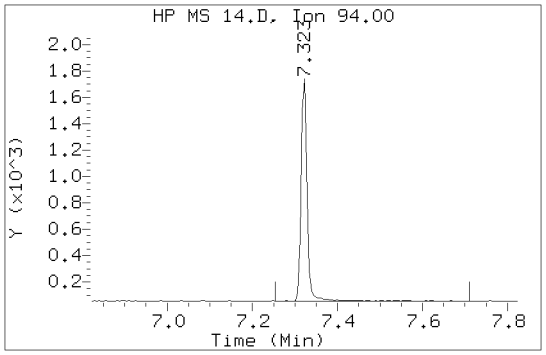

**BEFORE**

MASS
94
AREA
1634
HEIGHT
1685
16-Jun-2023
15:06
ALSHS
Server



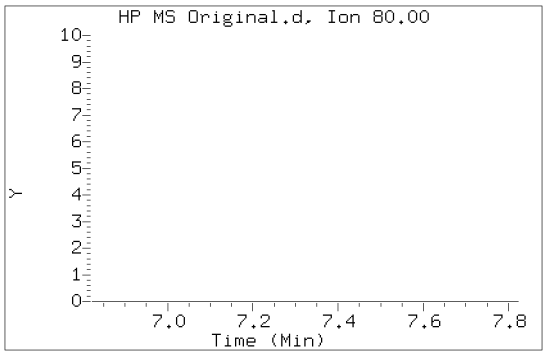

**AFTER**

MASS
94
AREA
1634
HEIGHT
1685
29-Jun-2023
14:27
ALSHS
Ser



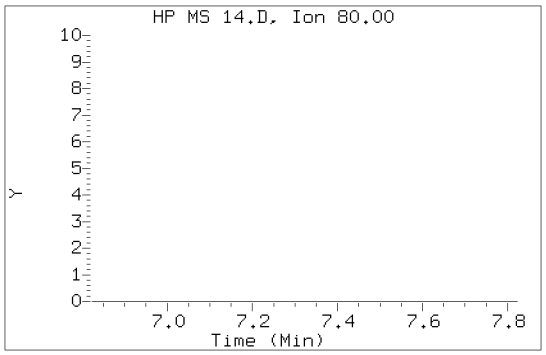

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser

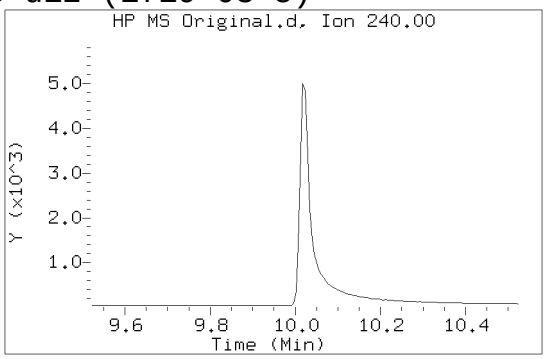


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

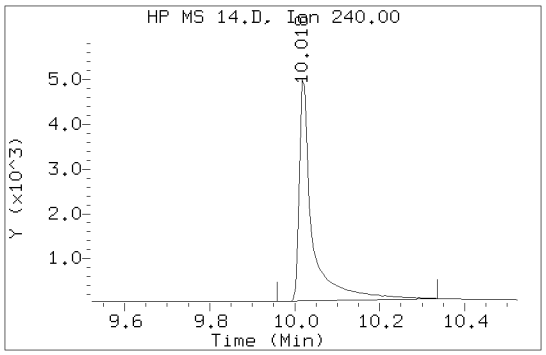
## Chrysene-d12 (1719-03-5)

Reason Code:

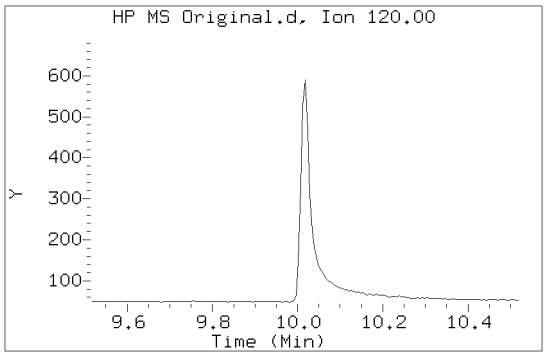
BEFORE
MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



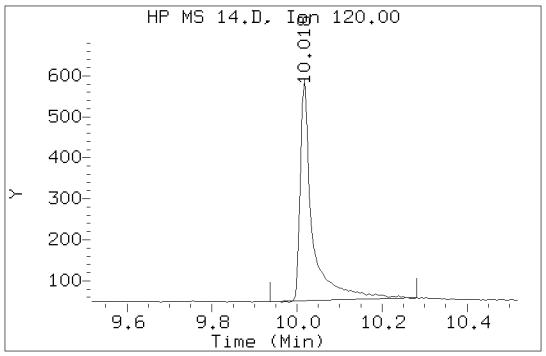

AFTER
MASS
240
AREA
10483
HEIGHT
4943
29-Jun-2023
14:27
ALSHS
Ser



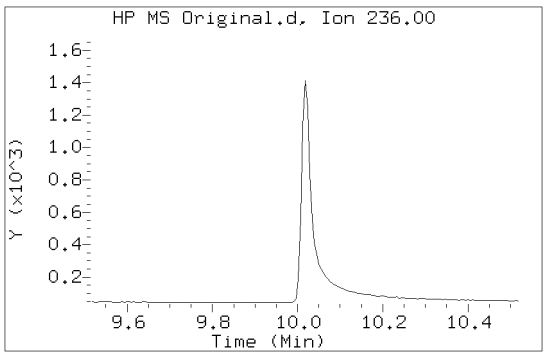

BEFORE
MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



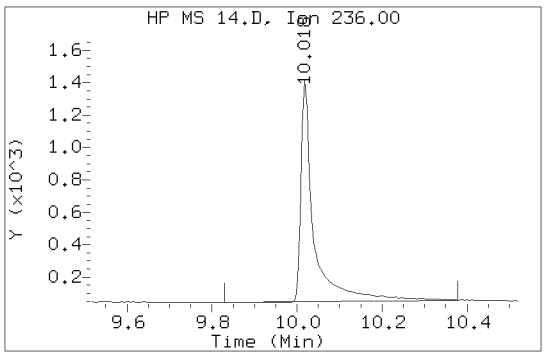

AFTER
MASS
120
AREA
1068
HEIGHT
538
29-Jun-2023
14:27
ALSHS
Ser




BEFORE
MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



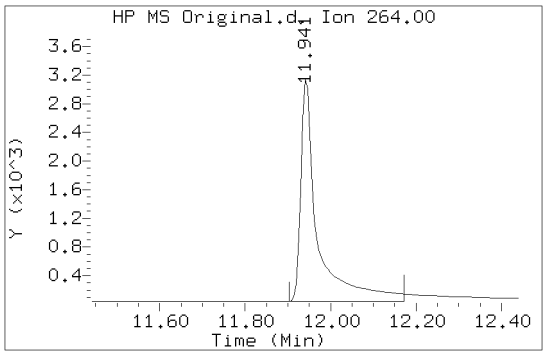

AFTER
MASS
236
AREA
2872
HEIGHT
1362
29-Jun-2023
14:27
ALSHS
Ser



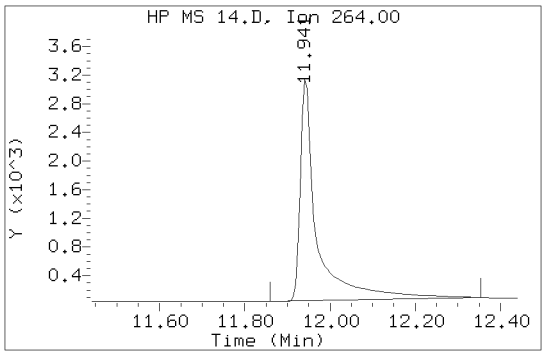

## Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
264
AREA
8406
HEIGHT
3088
16-Jun-2023
15:06
ALSHS
Server




AFTER
MASS
264
AREA
8460
HEIGHT
3081
29-Jun-2023
14:27
ALSHS
Ser



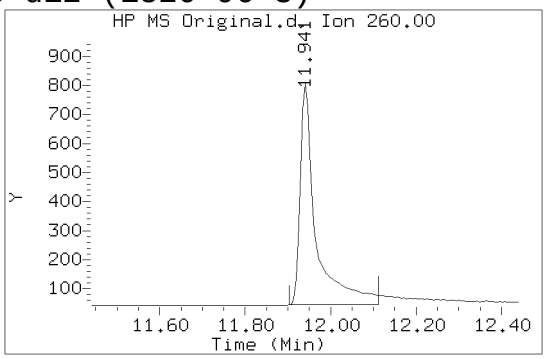
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

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

Reason Code:

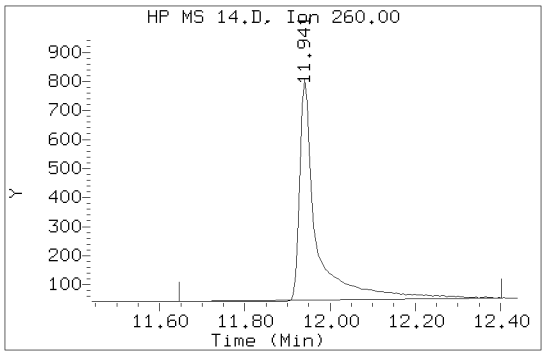
BEFORE

MASS
260
AREA
1950
HEIGHT
761
16-Jun-2023
15:06
ALSHS
Server



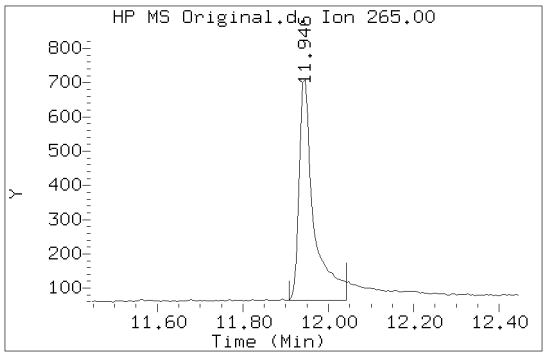

AFTER

MASS
260
AREA
2034
HEIGHT
757
29-Jun-2023
14:27
ALSHS
Ser



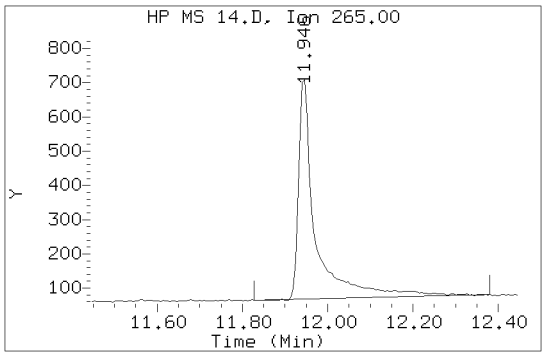

BEFORE

MASS
265
AREA
1539
HEIGHT
643
16-Jun-2023
15:06
ALSHS
Server




AFTER

MASS
265
AREA
1765
HEIGHT
639
29-Jun-2023
14:27
ALSHS
Ser

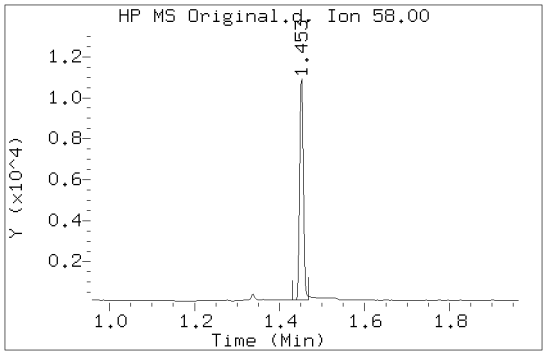



## 1,4-Dioxane ()

Reason Code:

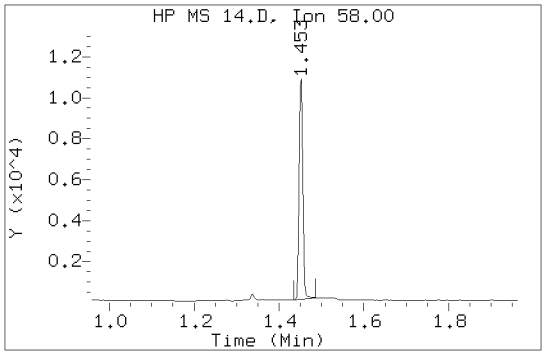
BEFORE

MASS
58
AREA
6535
HEIGHT
10789
16-Jun-2023
15:06
ALSHS
Server



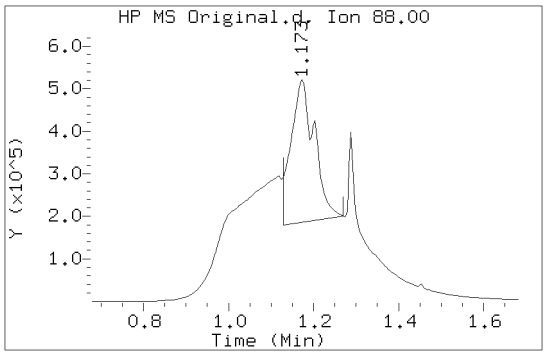

AFTER

MASS
58
AREA
6496
HEIGHT
10751
29-Jun-2023
14:27
ALSHS
Ser



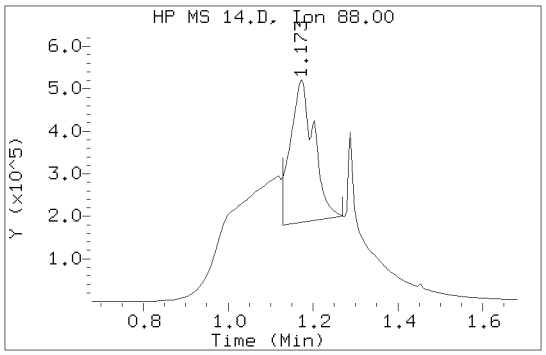

BEFORE

MASS
88
AREA
1285756
HEIGHT
334955
16-Jun-2023
15:06
ALSHS
Server




AFTER

MASS
88
AREA
1285756
HEIGHT
334955
29-Jun-2023
14:27
ALSHS
Ser



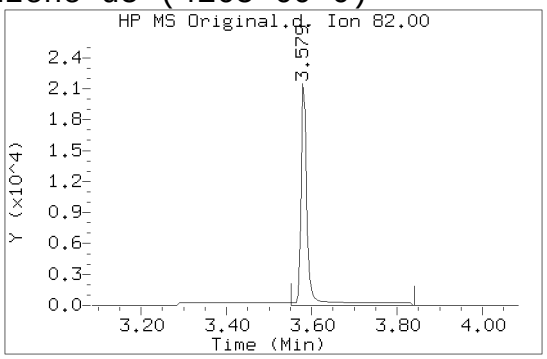
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

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

Reason Code:

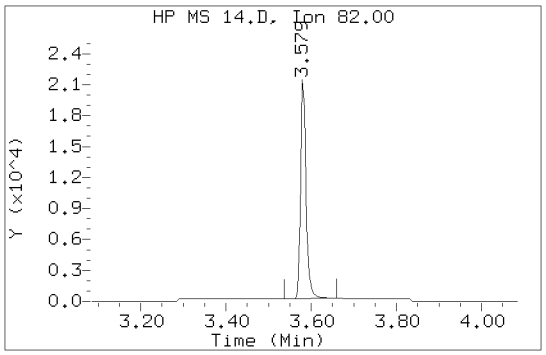
**BEFORE**

MASS
82
AREA
23560
HEIGHT
21488
16-Jun-2023
15:06
ALSHS
Server



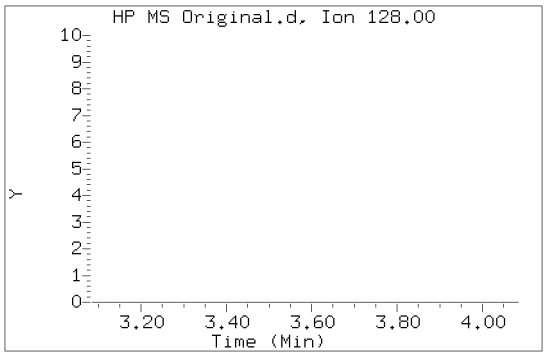

**AFTER**

MASS
82
AREA
19311
HEIGHT
21230
29-Jun-2023
14:27
ALSHS
Ser



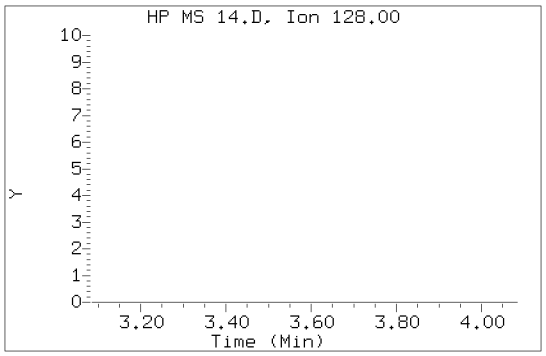

**BEFORE**

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



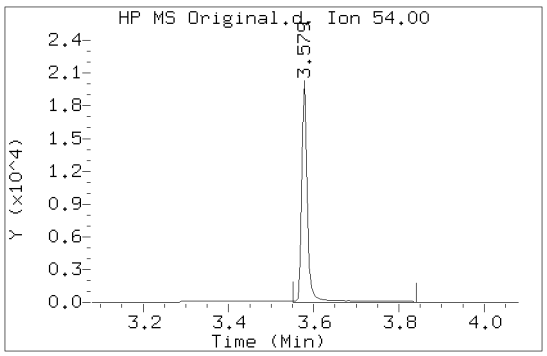

**AFTER**

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



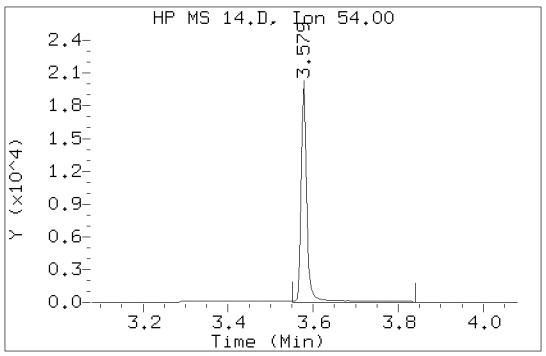

**BEFORE**

MASS
54
AREA
20065
HEIGHT
20304
16-Jun-2023
15:06
ALSHS
Server




**AFTER**

MASS
54
AREA
20065
HEIGHT
20304
29-Jun-2023
14:27
ALSHS
Ser

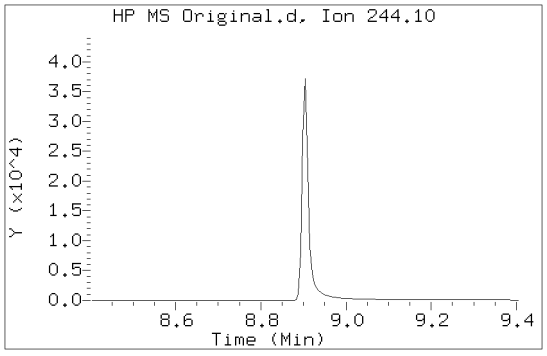



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

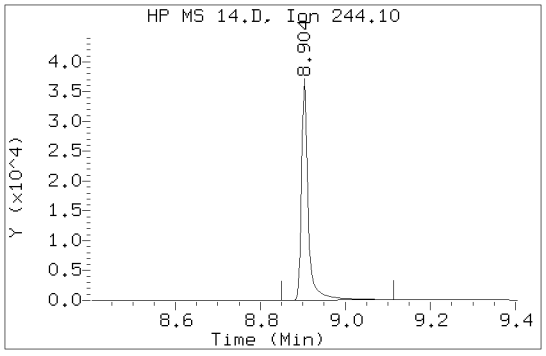
**BEFORE**

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server




**AFTER**

MASS
244.1
AREA
39805
HEIGHT
37107
29-Jun-2023
14:27
ALSHS
Ser



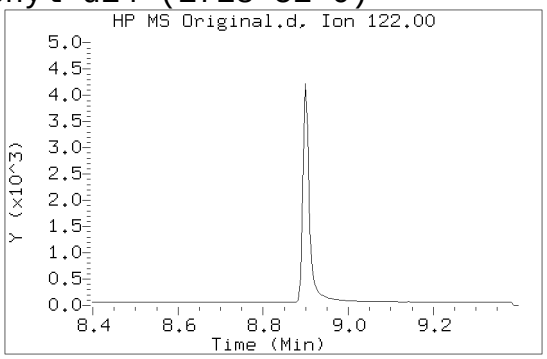
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

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

Reason Code:

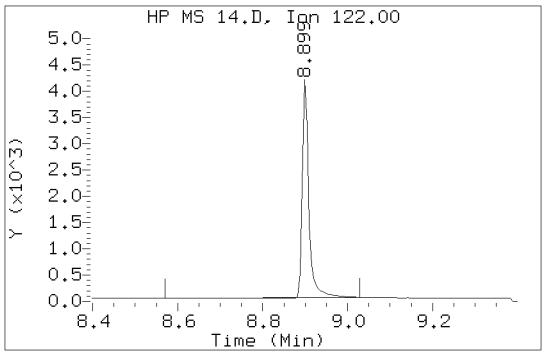
**BEFORE**

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



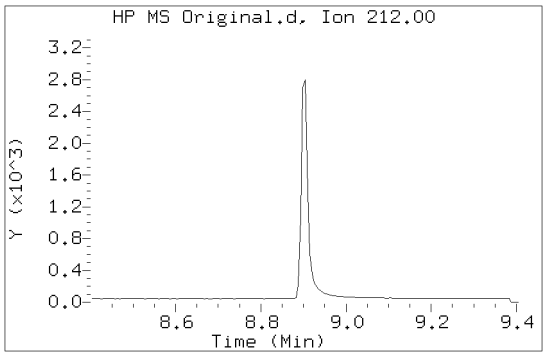

**AFTER**

MASS
122
AREA
4228
HEIGHT
4149
29-Jun-2023
14:27
ALSHS
Ser



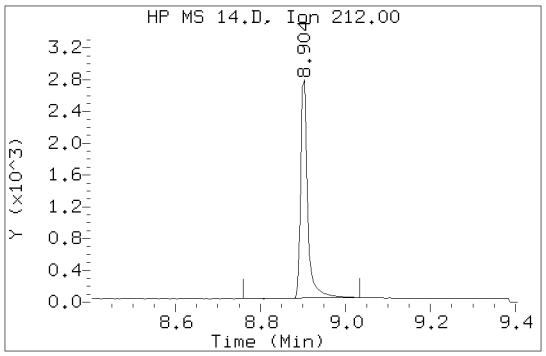

**BEFORE**

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server




**AFTER**

MASS
212
AREA
3105
HEIGHT
2745
29-Jun-2023
14:27
ALSHS
Ser

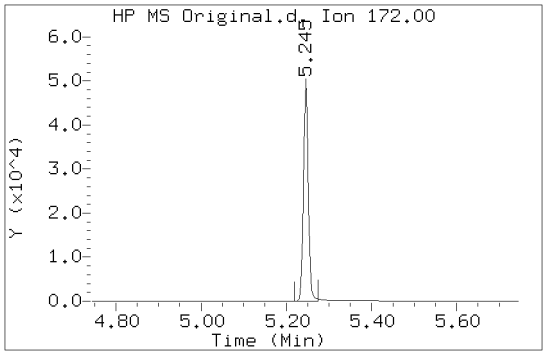



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

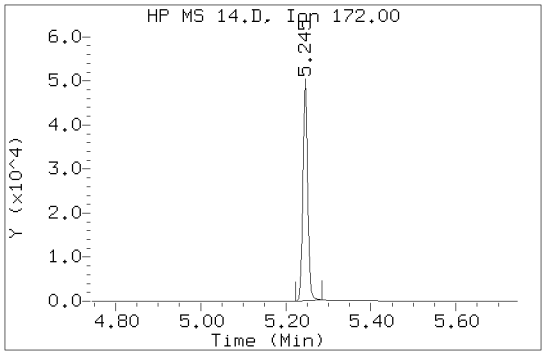
**BEFORE**

MASS
172
AREA
40002
HEIGHT
50410
16-Jun-2023
15:06
ALSHS
Server



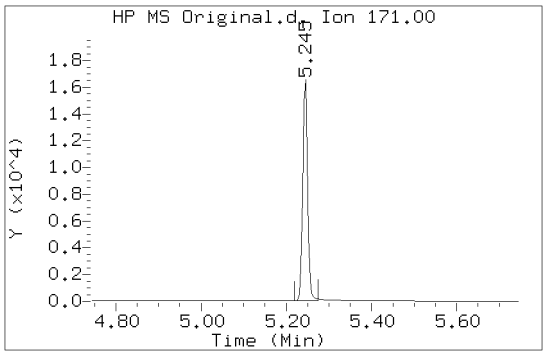

**AFTER**

MASS
172
AREA
39708
HEIGHT
50322
29-Jun-2023
14:27
ALSHS
Ser



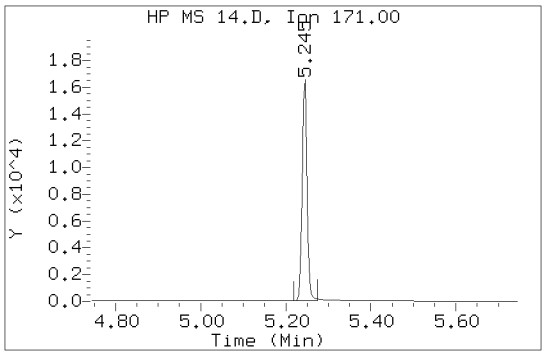

**BEFORE**

MASS
171
AREA
13389
HEIGHT
16514
16-Jun-2023
15:06
ALSHS
Server




**AFTER**

MASS
171
AREA
13389
HEIGHT
16514
29-Jun-2023
14:27
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D Page 1
Report Date: 29-Jun-2023 14:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Lab Smp Id: 14DXICAL-0.2 Client Smp ID: 14DXICAL-0.2
Inj Date : 16-JUN-2023 15:56
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.2RR
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 14:51 Cal File: 14.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.122 | 3.122 | (1.000) | 3731 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 4.220 | 4.220 | (1.000) | 12688 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.584 | 3.584 | (0.849) | 8839 | 0.20000 | 0.2304(AM) |
| * 86 Acenaphthene-d10 | 164 | 5.883 | 5.883 | (1.000) | 7256 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 5.245 | 5.245 | (0.891) | 18173 | 0.20000 | 0.2446(AM) |
| * 126 Phenanthrene-d10 | 188 | 7.322 | 7.322 | (1.000) | 14346 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 10.023 | 10.023 | (1.000) | 8796 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.904 | 8.904 | (0.888) | 17639 | 0.20000 | 0.2748(AM) |
| * 198 Perylene-d12 | 264 | 11.940 | 11.940 | (1.000) | 6565 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.460 | 1.460 | (0.468) | 2996 | 0.20000 | 0.2384(Q) |

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.

01195858

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D

Page 1

Date : 16-JUN-2023 15:56

Client ID: 14DXICAL-0.2

Instrument: SV6.i

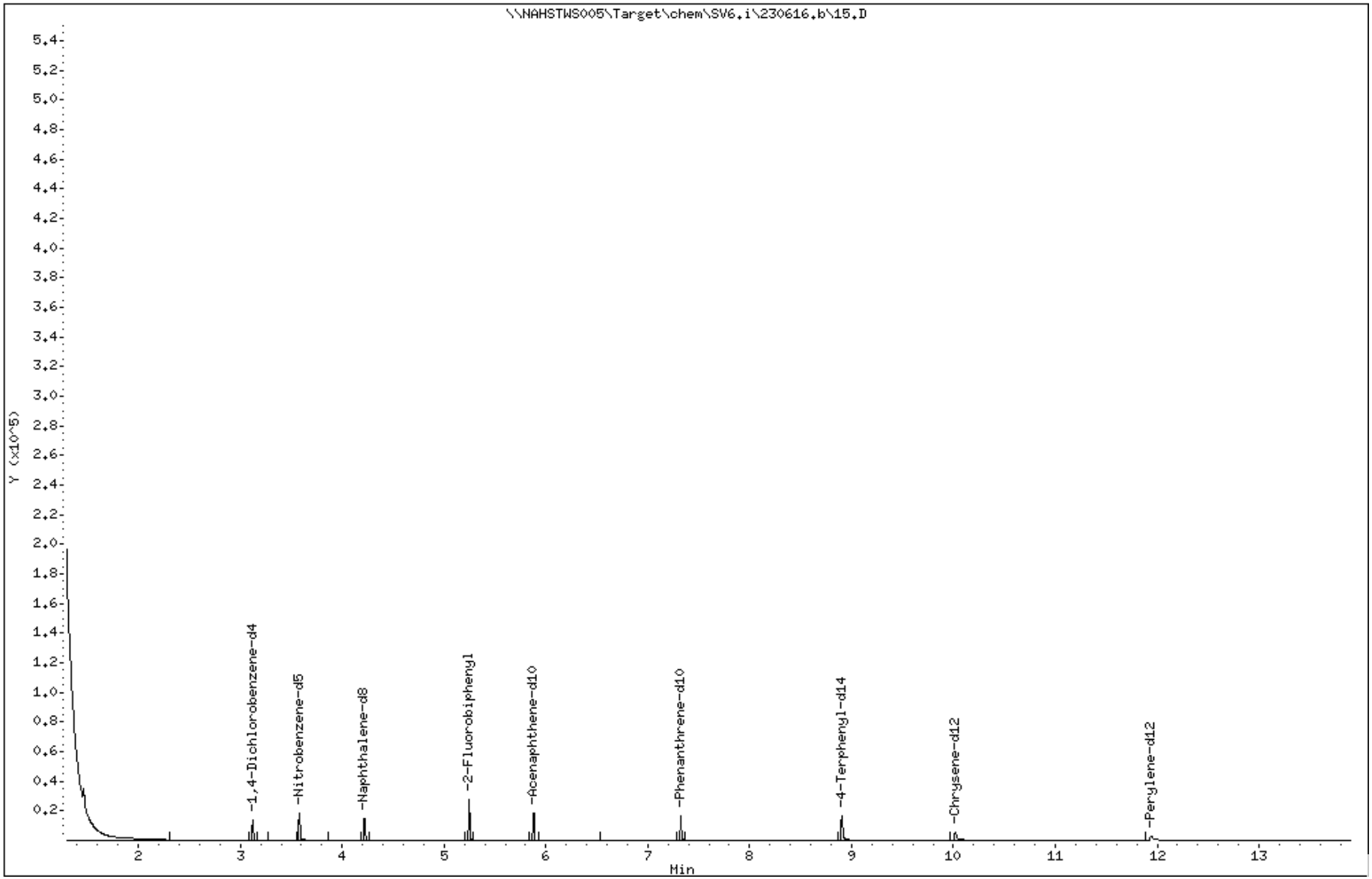
Sample Info: 14DXICAL-0.2RR

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



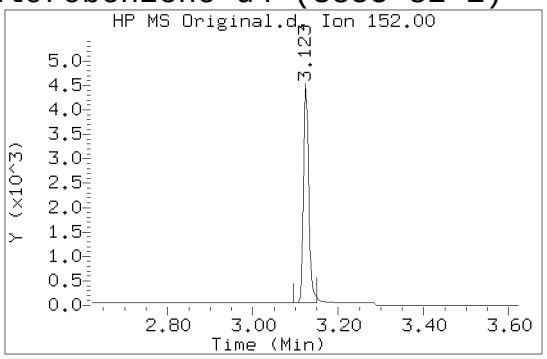
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

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

Reason Code:

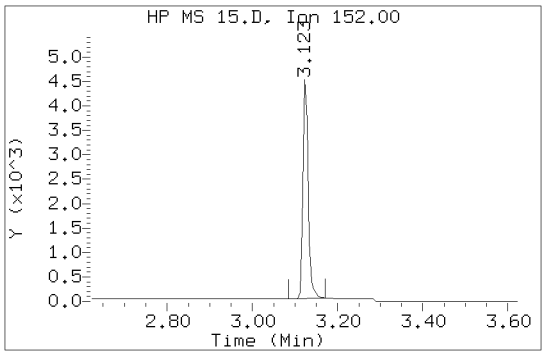
BEFORE

MASS
152
AREA
3749
HEIGHT
4489
16-Jun-2023
16:11
ALSHS
Server



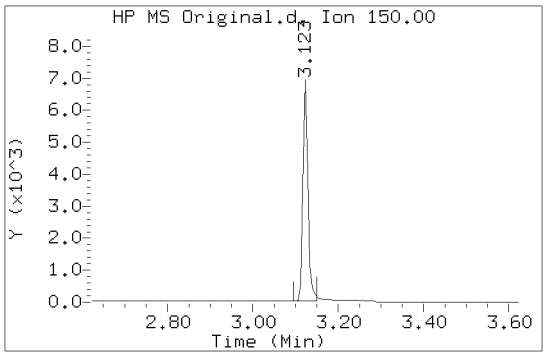

AFTER

MASS
152
AREA
3731
HEIGHT
4478
29-Jun-2023
14:27
ALSHS
Ser



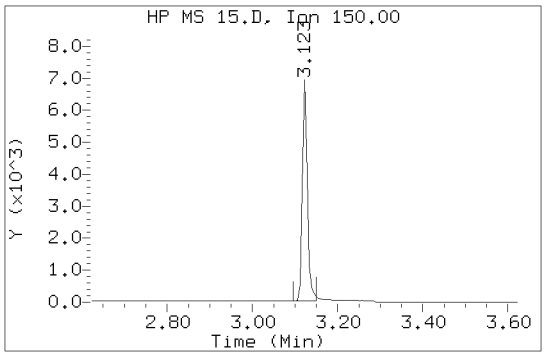

BEFORE

MASS
150
AREA
5426
HEIGHT
6903
16-Jun-2023
16:11
ALSHS
Server



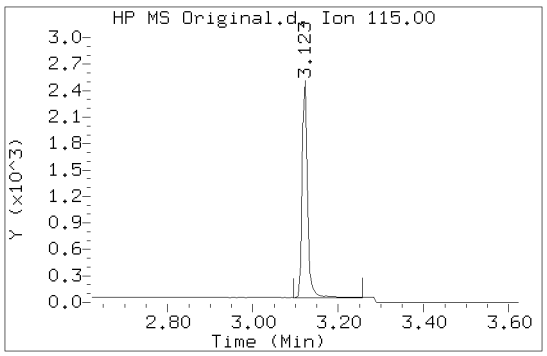

AFTER

MASS
150
AREA
5426
HEIGHT
6903
29-Jun-2023
14:27
ALSHS
Ser



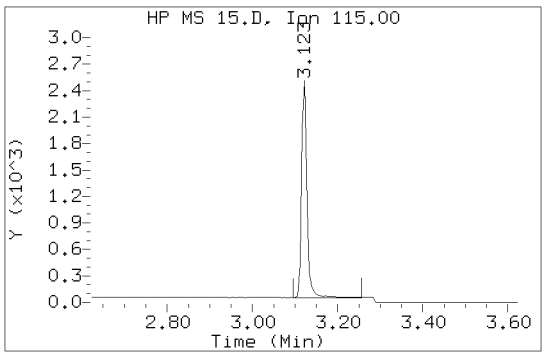

BEFORE

MASS
115
AREA
2094
HEIGHT
2459
16-Jun-2023
16:11
ALSHS
Server




AFTER

MASS
115
AREA
2094
HEIGHT
2459
29-Jun-2023
14:27
ALSHS
Ser

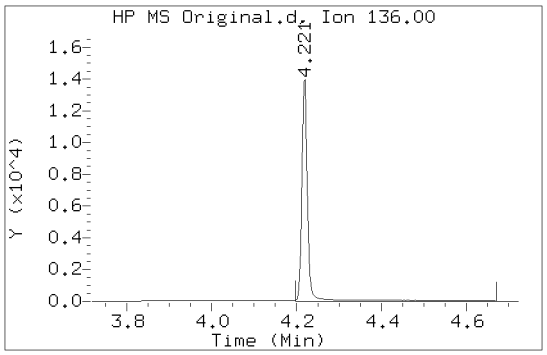



## Naphthalene-d8 (1146-65-2)

Reason Code:

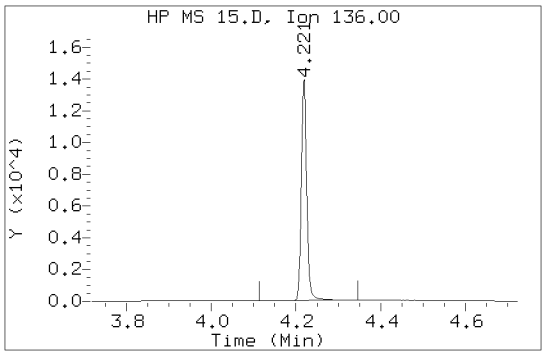
BEFORE

MASS
136
AREA
14465
HEIGHT
13959
16-Jun-2023
16:11
ALSHS
Server




AFTER

MASS
136
AREA
12688
HEIGHT
13897
29-Jun-2023
14:27
ALSHS
Ser



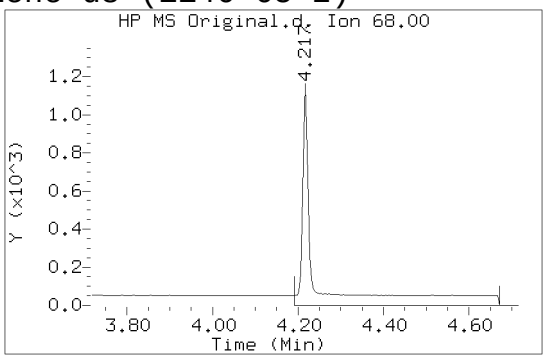
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

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

Reason Code:

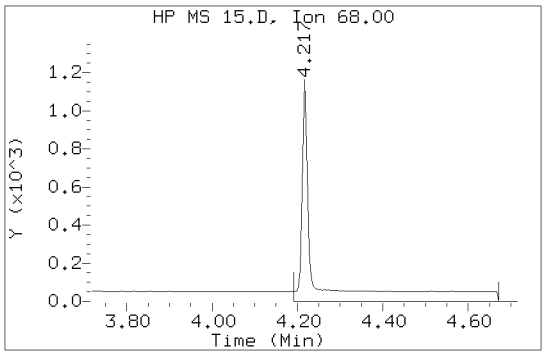
**BEFORE**

MASS
68
AREA
2461
HEIGHT
1163
16-Jun-2023
16:11
ALSHS
Server




**AFTER**

MASS
68
AREA
2461
HEIGHT
1163
29-Jun-2023
14:27
ALSHS
Ser

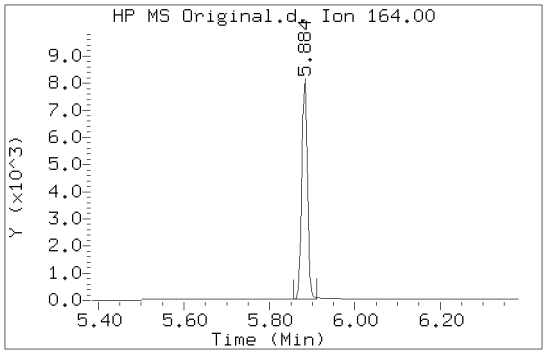



## Acenaphthene-d10 (15067-26-2)

Reason Code:

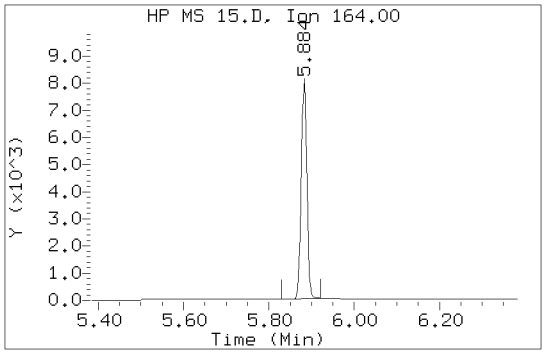
**BEFORE**

MASS
164
AREA
7305
HEIGHT
8114
16-Jun-2023
16:11
ALSHS
Server



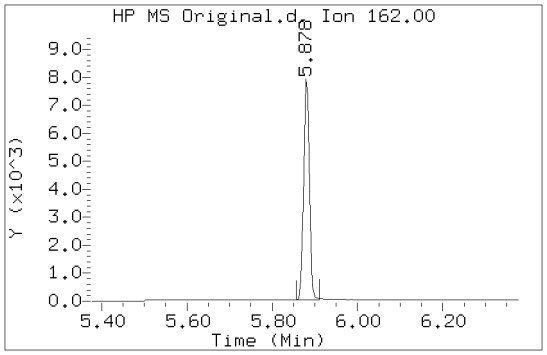

**AFTER**

MASS
164
AREA
7256
HEIGHT
8100
29-Jun-2023
14:27
ALSHS
Ser



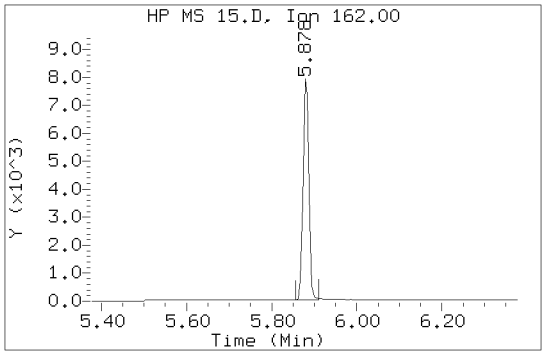

**BEFORE**

MASS
162
AREA
7389
HEIGHT
7893
16-Jun-2023
16:11
ALSHS
Server



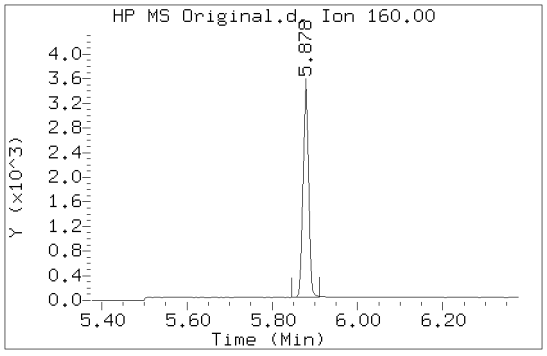

**AFTER**

MASS
162
AREA
7389
HEIGHT
7893
29-Jun-2023
14:27
ALSHS
Ser



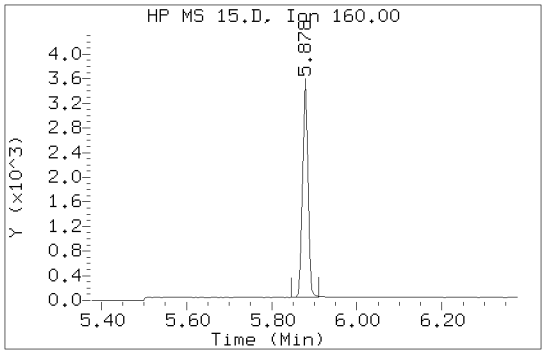

**BEFORE**

MASS
160
AREA
3110
HEIGHT
3554
16-Jun-2023
16:11
ALSHS
Server




**AFTER**

MASS
160
AREA
3110
HEIGHT
3554
29-Jun-2023
14:27
ALSHS
Ser



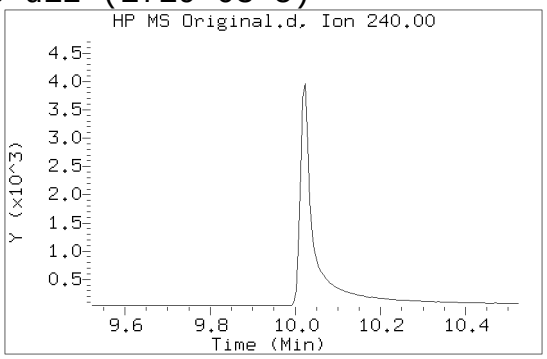
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

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

Reason Code:

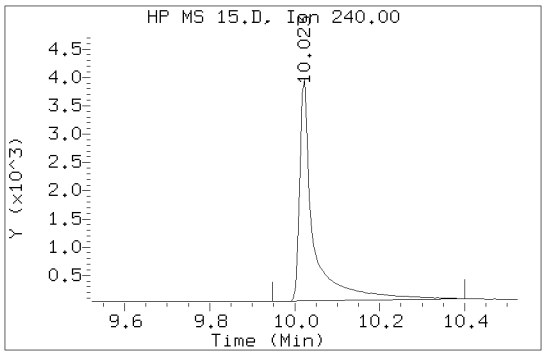
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



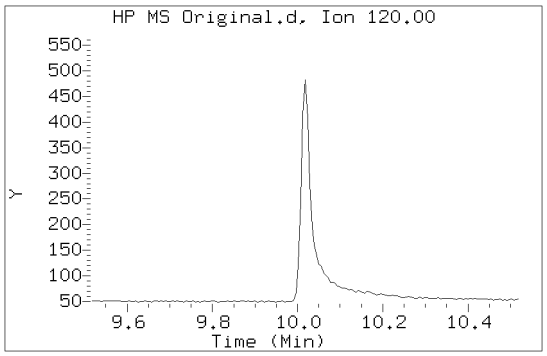

**AFTER**

MASS
240
AREA
8796
HEIGHT
3907
29-Jun-2023
14:27
ALSHS
Ser



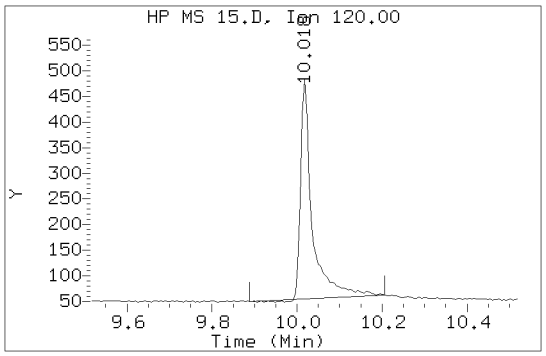

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



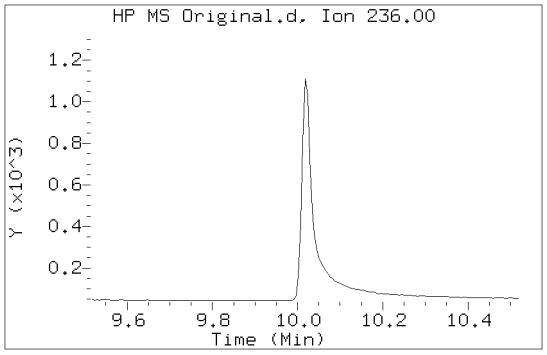

**AFTER**

MASS
120
AREA
798
HEIGHT
426
29-Jun-2023
14:27
ALSHS
Ser



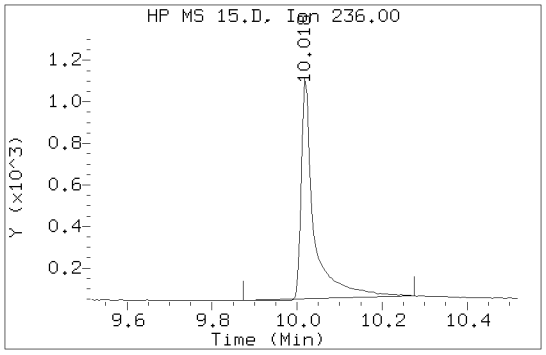

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server




**AFTER**

MASS
236
AREA
2198
HEIGHT
1058
29-Jun-2023
14:27
ALSHS
Ser

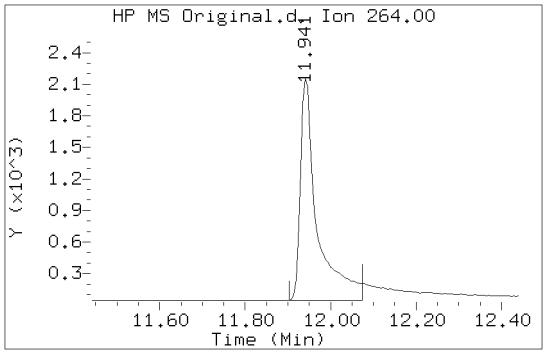



## Perylene-d12 (1520-96-3)

Reason Code:

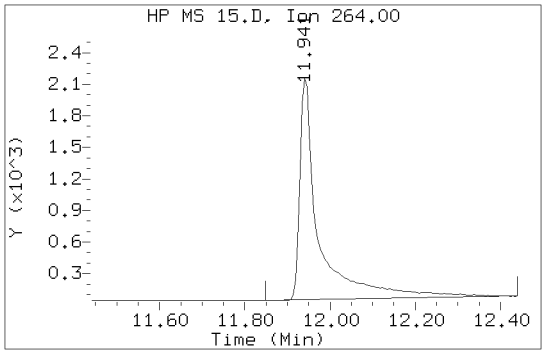
**BEFORE**

MASS
264
AREA
5713
HEIGHT
2106
16-Jun-2023
16:11
ALSHS
Server




**AFTER**

MASS
264
AREA
6565
HEIGHT
2100
29-Jun-2023
14:27
ALSHS
Ser



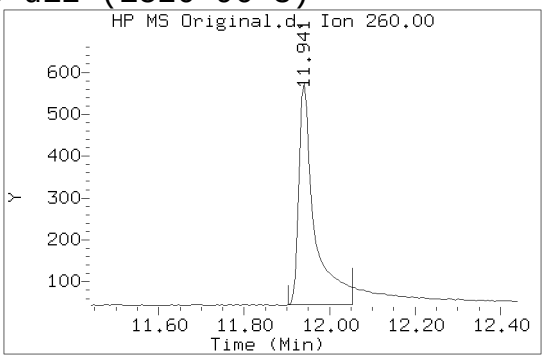
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

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

Reason Code:

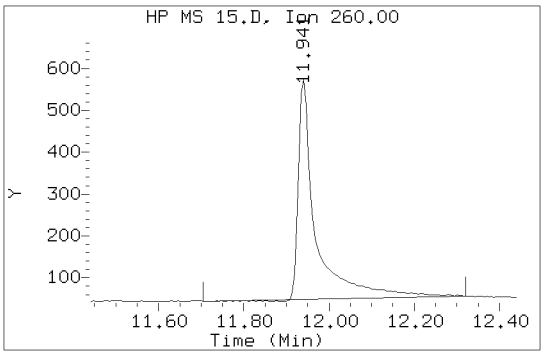
**BEFORE**

MASS
260
AREA
1348
HEIGHT
528
16-Jun-2023
16:11
ALSHS
Server



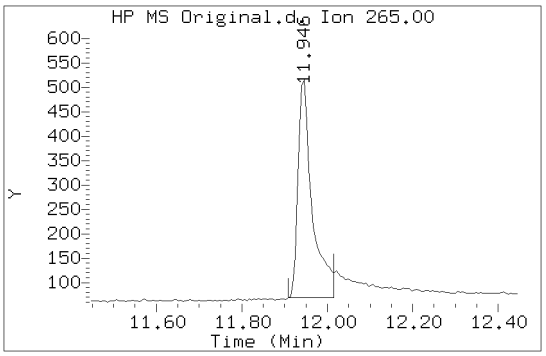

**AFTER**

MASS
260
AREA
1491
HEIGHT
524
29-Jun-2023
14:27
ALSHS
Ser



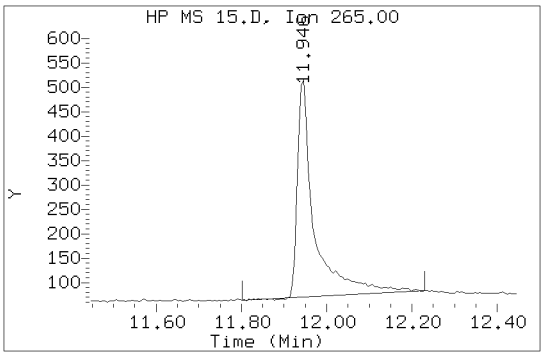

**BEFORE**

MASS
265
AREA
1037
HEIGHT
446
16-Jun-2023
16:11
ALSHS
Server




**AFTER**

MASS
265
AREA
1210
HEIGHT
444
29-Jun-2023
14:27
ALSHS
Ser

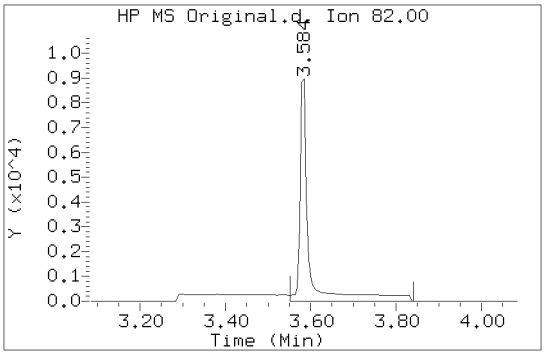



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

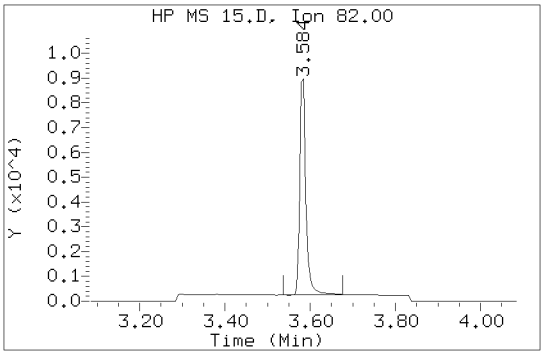
**BEFORE**

MASS
82
AREA
13113
HEIGHT
8968
16-Jun-2023
16:11
ALSHS
Server



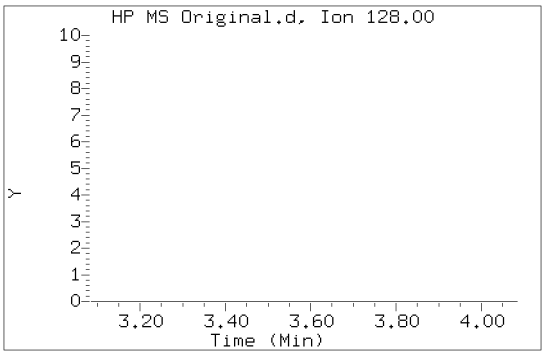

**AFTER**

MASS
82
AREA
8839
HEIGHT
8709
29-Jun-2023
14:27
ALSHS
Ser



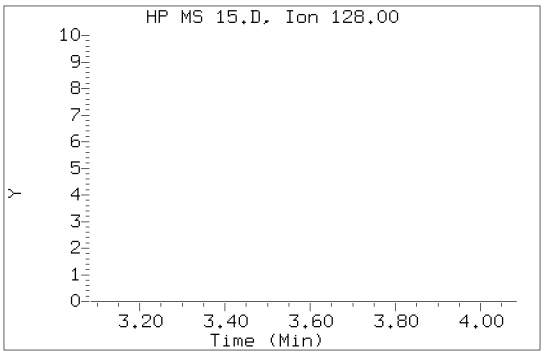

**BEFORE**

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server




**AFTER**

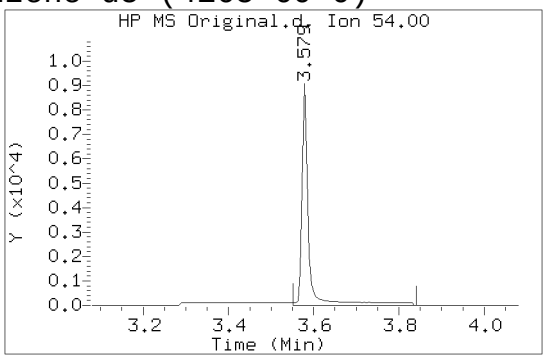
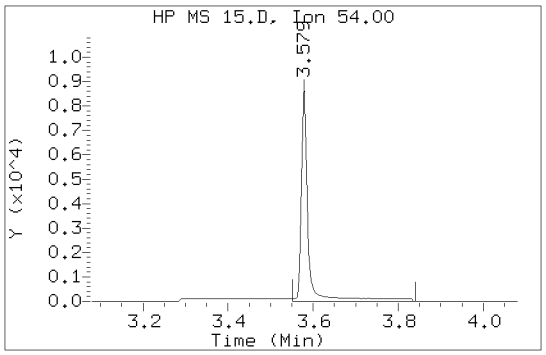
MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

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

Reason Code:

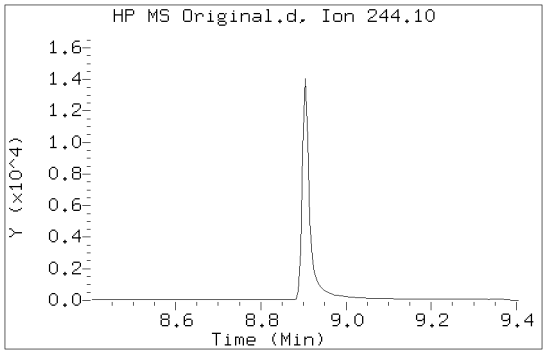
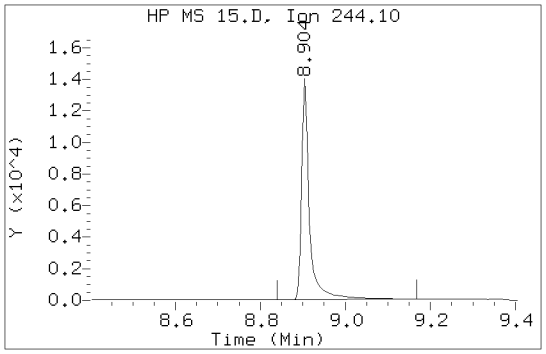
| BEFORE | | AFTER | |
|---|---|---|---|
| MASS | | MASS | |
| 54 |  | 54 |  |
| AREA | | AREA | |
| 10106 | | 10106 | |
| HEIGHT | | HEIGHT | |
| 9078 | | 9078 | |
| 16-Jun-2023 | | 29-Jun-2023 | |
| 16:11 | | 14:27 | |
| ALSHS | | ALSHS | |
| Server | | Ser | |





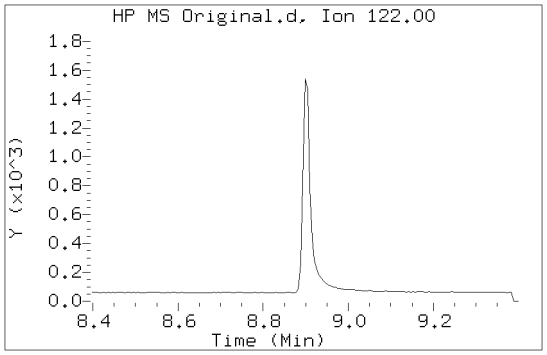
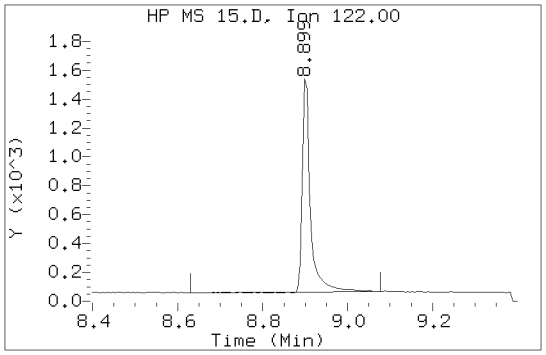
## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

| BEFORE | | AFTER | |
|---|---|---|---|
| MASS | | MASS | |
| 244.1 |  | 244.1 |  |
| AREA | | AREA | |
| 0 | | 17639 | |
| HEIGHT | | HEIGHT | |
| 0 | | 13989 | |
| 16-Jun-2023 | | 29-Jun-2023 | |
| 16:11 | | 14:27 | |
| ALSHS | | ALSHS | |
| Server | | Ser | |

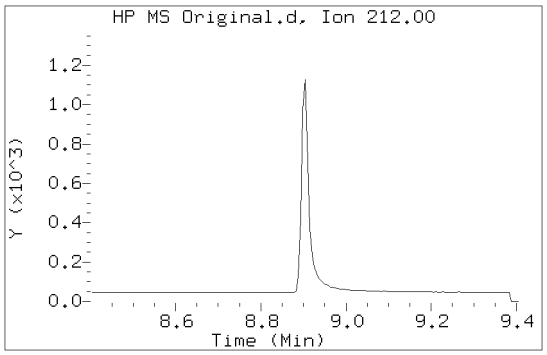
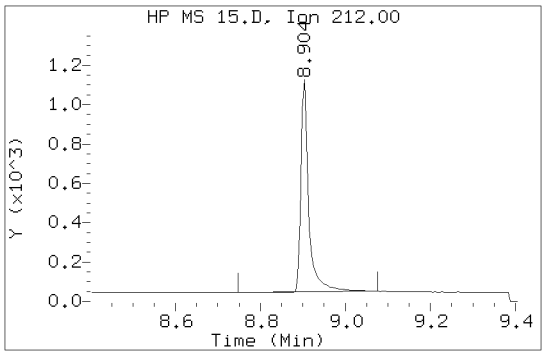




| BEFORE | | AFTER | |
|---|---|---|---|
| MASS | | MASS | |
| 122 |  | 122 |  |
| AREA | | AREA | |
| 0 | | 1896 | |
| HEIGHT | | HEIGHT | |
| 0 | | 1474 | |
| 16-Jun-2023 | | 29-Jun-2023 | |
| 16:11 | | 14:27 | |
| ALSHS | | ALSHS | |
| Server | | Ser | |





| BEFORE | | AFTER | |
|---|---|---|---|
| MASS | | MASS | |
| 212 |  | 212 |  |
| AREA | | AREA | |
| 0 | | 1371 | |
| HEIGHT | | HEIGHT | |
| 0 | | 1079 | |
| 16-Jun-2023 | | 29-Jun-2023 | |
| 16:11 | | 14:27 | |
| ALSHS | | ALSHS | |
| Server | | Ser | |

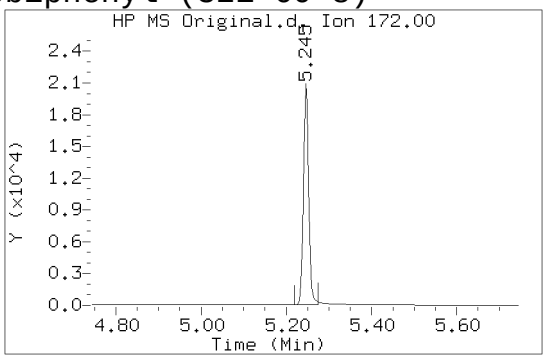
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

2-Fluorobiphenyl (321-60-8)

Reason Code:

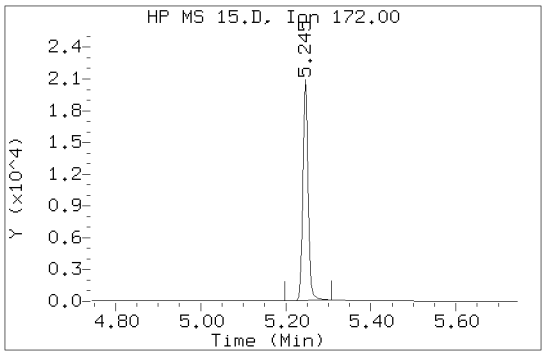
BEFORE

MASS
172
AREA
18197
HEIGHT
20880
16-Jun-2023
16:11
ALSHS
Server



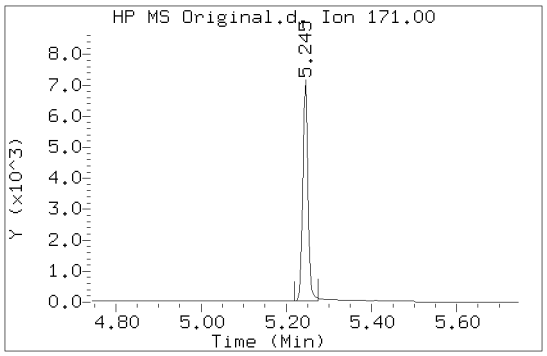

AFTER

MASS
172
AREA
18173
HEIGHT
20843
29-Jun-2023
14:27
ALSHS
Ser



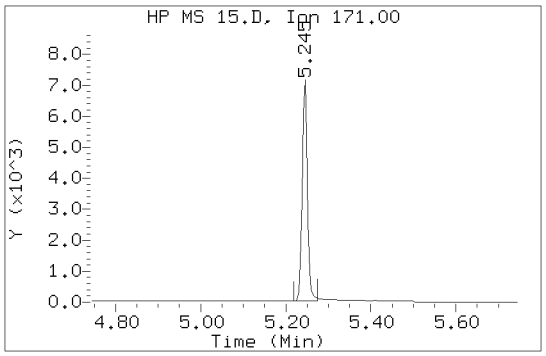

BEFORE

MASS
171
AREA
6120
HEIGHT
7129
16-Jun-2023
16:11
ALSHS
Server




AFTER

MASS
171
AREA
6120
HEIGHT
7129
29-Jun-2023
14:27
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Lab Smp Id: 14DXICV-0.08 Client Smp ID: 14DXICV-0.08
Inj Date : 16-JUN-2023 16:22
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 16 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.128 | 3.122 | (1.000) | 5295 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 4.220 | 4.220 | (1.000) | 17725 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.584 | 3.584 | (0.849) | 3797 | 0.07086 | 0.07086(M) |
| * 86 Acenaphthene-d10 | 164 | 5.883 | 5.883 | (1.000) | 10379 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 5.248 | 5.245 | (0.892) | 8542 | 0.08036 | 0.08036(M) |
| * 126 Phenanthrene-d10 | 188 | 7.328 | 7.322 | (1.000) | 20505 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 10.023 | 10.023 | (1.000) | 12662 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.909 | 8.904 | (0.889) | 7743 | 0.08379 | 0.08379(M) |
| * 198 Perylene-d12 | 264 | 11.945 | 11.940 | (1.000) | 10635 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.464 | 1.460 | (0.468) | 1261 | 0.07070 | 0.07070(M) |

QC Flag Legend

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

01195866

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D



Date : 16-JUN-2023 16:22

Client ID: 14DXICV-0.08

Instrument: SV6.i

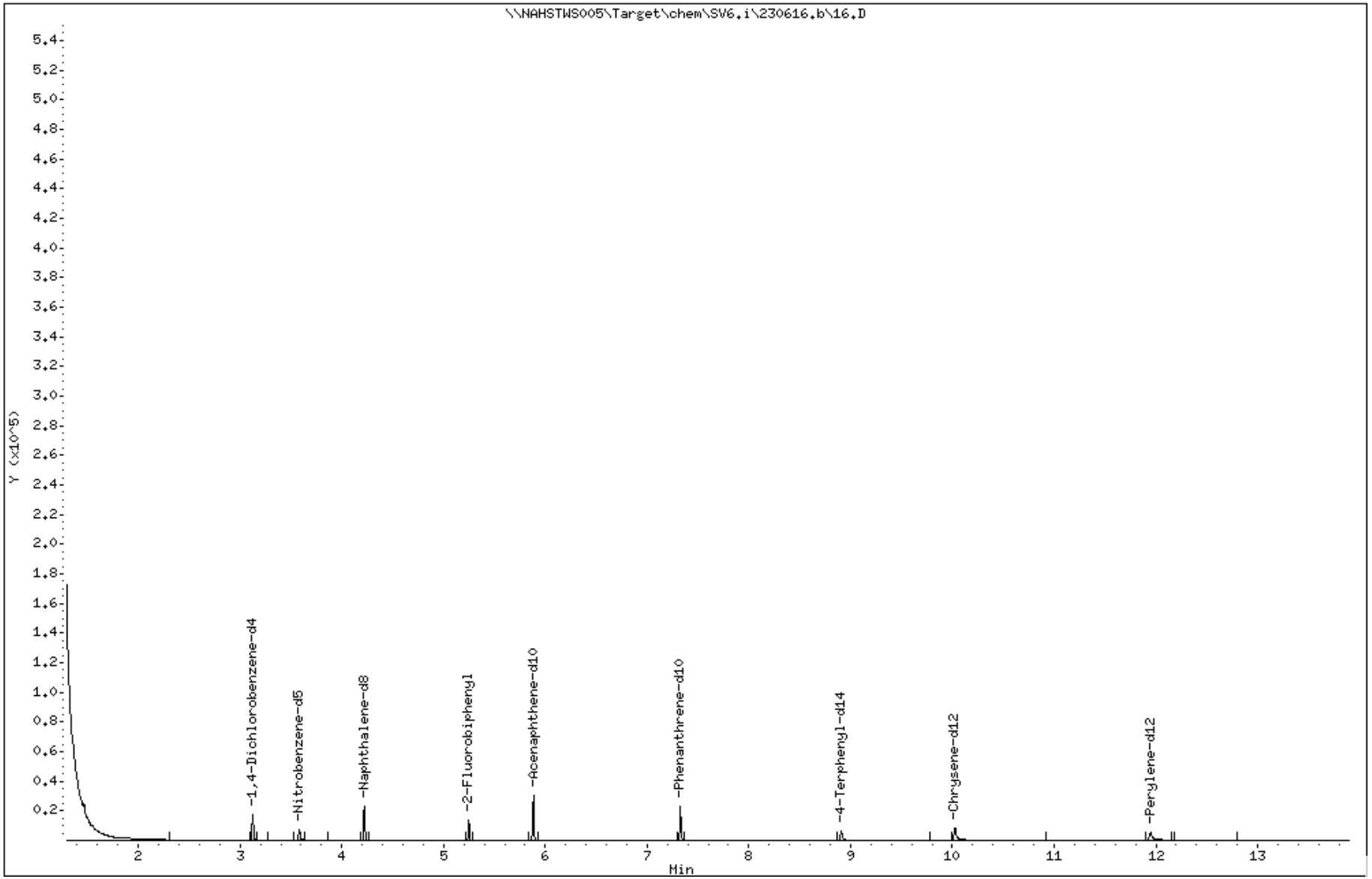
Sample Info: 14DXICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



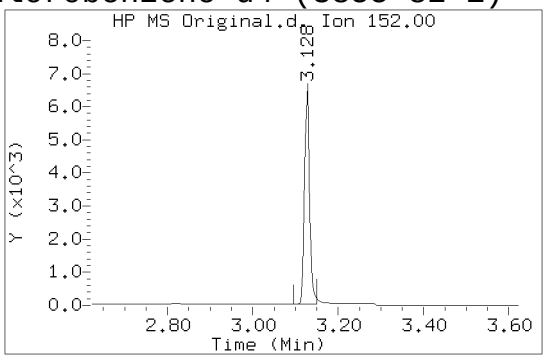
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Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

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

Reason Code:

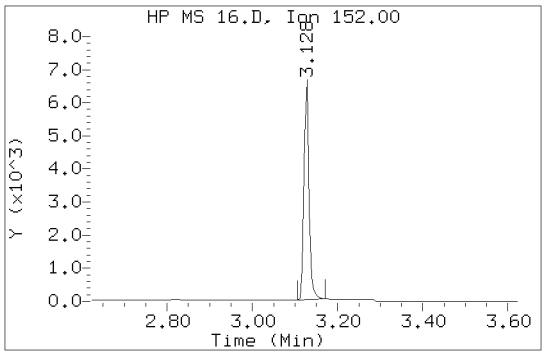
BEFORE

MASS
152
AREA
5292
HEIGHT
6650
16-Jun-2023
16:37
ALSHS
Server



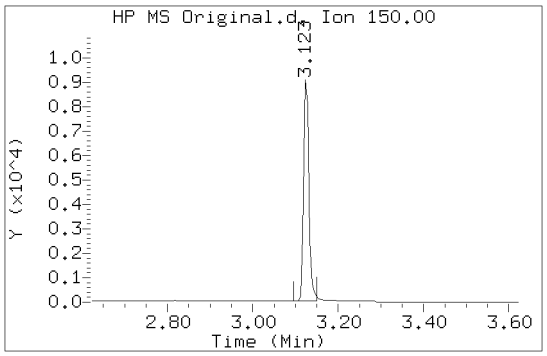

AFTER

MASS
152
AREA
5295
HEIGHT
6641
29-Jun-2023
14:27
ALSHS
Ser



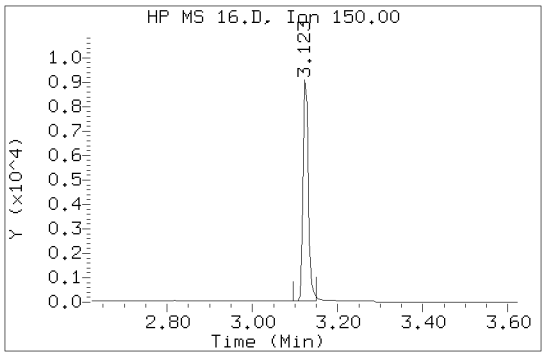

BEFORE

MASS
150
AREA
7668
HEIGHT
9050
16-Jun-2023
16:37
ALSHS
Server



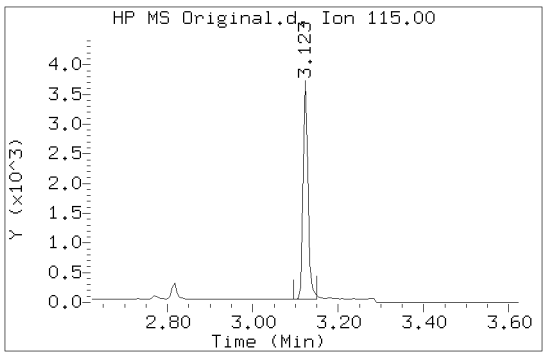

AFTER

MASS
150
AREA
7668
HEIGHT
9050
29-Jun-2023
14:27
ALSHS
Ser



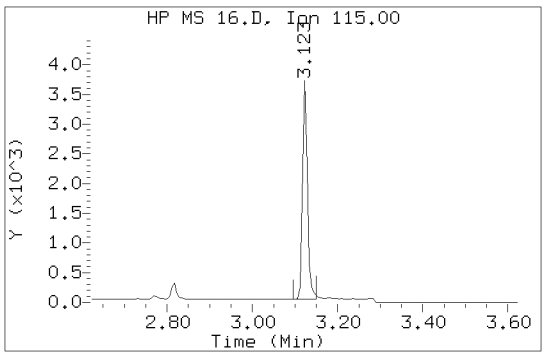

BEFORE

MASS
115
AREA
2824
HEIGHT
3676
16-Jun-2023
16:37
ALSHS
Server




AFTER

MASS
115
AREA
2824
HEIGHT
3676
29-Jun-2023
14:27
ALSHS
Ser

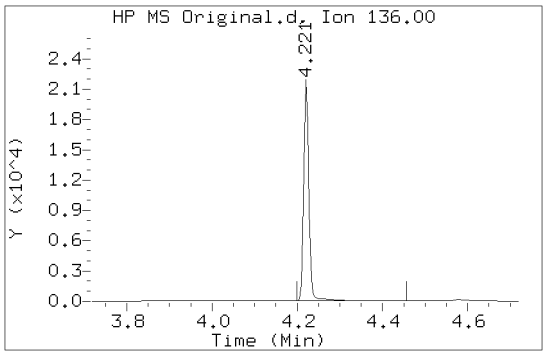



## Naphthalene-d8 (1146-65-2)

Reason Code:

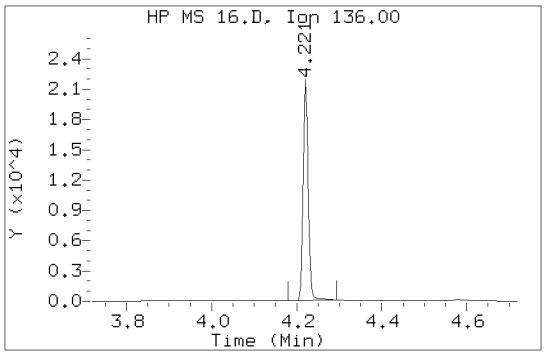
BEFORE

MASS
136
AREA
18147
HEIGHT
21880
16-Jun-2023
16:37
ALSHS
Server




AFTER

MASS
136
AREA
17725
HEIGHT
21858
29-Jun-2023
14:27
ALSHS
Ser



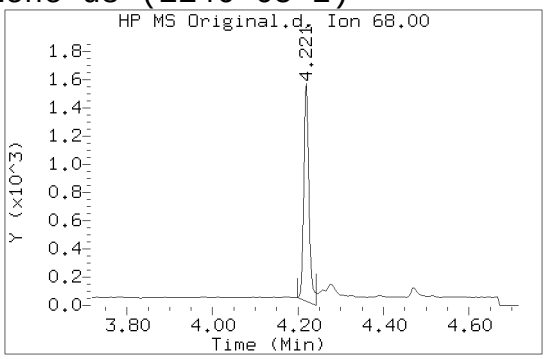
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Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

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

Reason Code:

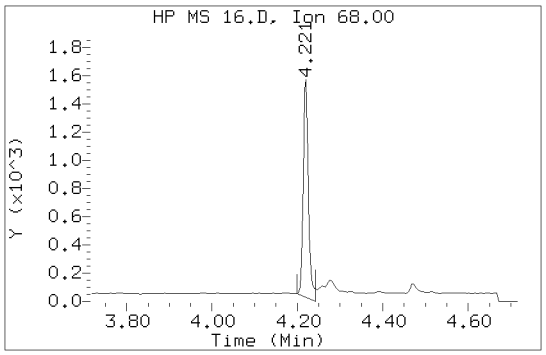
**BEFORE**

MASS
68
AREA
1351
HEIGHT
1544
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
68
AREA
1351
HEIGHT
1544
29-Jun-2023
14:27
ALSHS
Ser

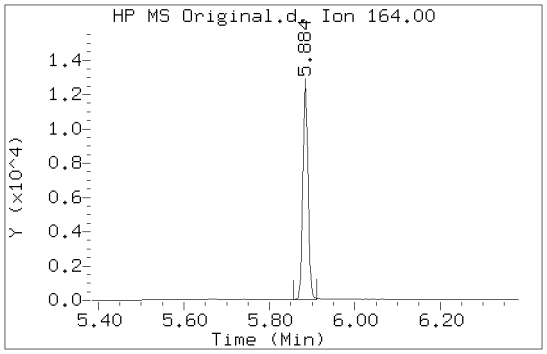



## Acenaphthene-d10 (15067-26-2)

Reason Code:

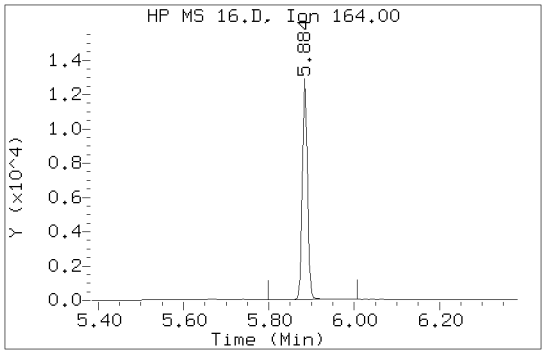
**BEFORE**

MASS
164
AREA
10322
HEIGHT
12879
16-Jun-2023
16:37
ALSHS
Server



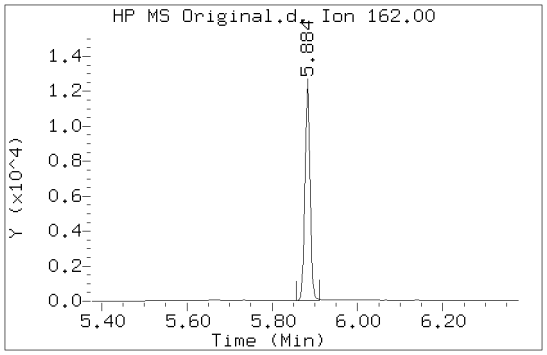

**AFTER**

MASS
164
AREA
10379
HEIGHT
12877
29-Jun-2023
14:27
ALSHS
Ser



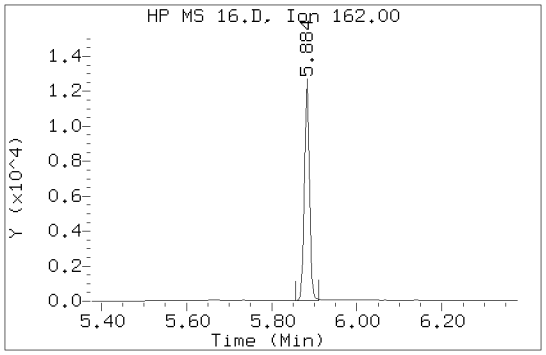

**BEFORE**

MASS
162
AREA
10387
HEIGHT
12657
16-Jun-2023
16:37
ALSHS
Server



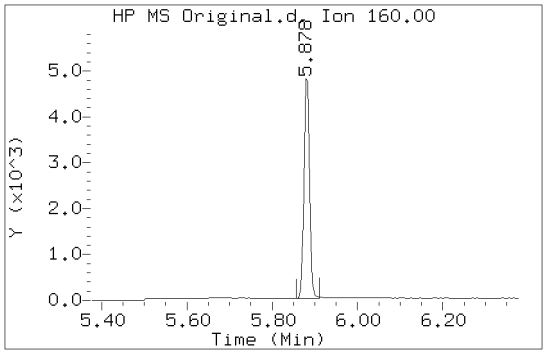

**AFTER**

MASS
162
AREA
10387
HEIGHT
12657
29-Jun-2023
14:27
ALSHS
Ser



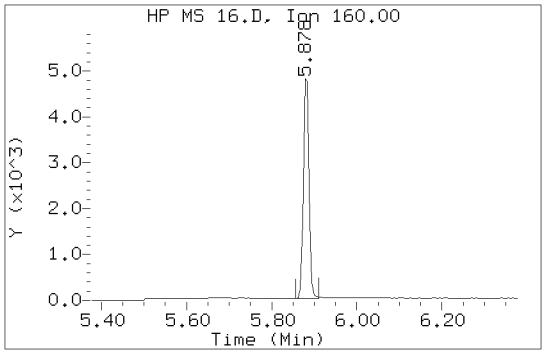

**BEFORE**

MASS
160
AREA
4356
HEIGHT
4785
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
160
AREA
4356
HEIGHT
4785
29-Jun-2023
14:27
ALSHS
Ser



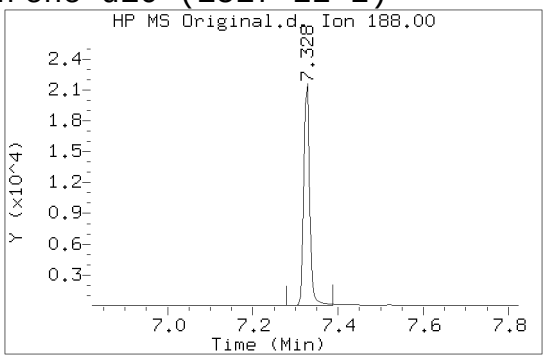
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Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

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

Reason Code:

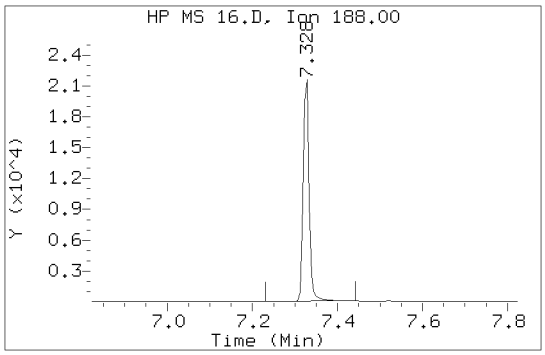
**BEFORE**

MASS
188
AREA
20554
HEIGHT
21579
16-Jun-2023
16:37
ALSHS
Server



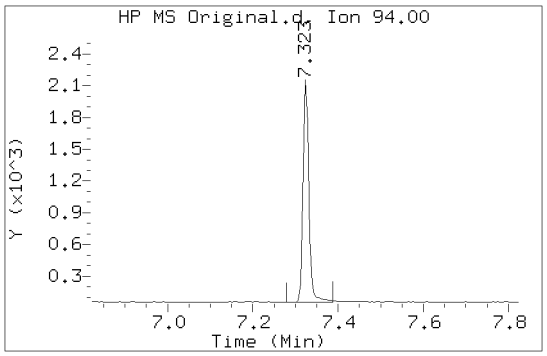

**AFTER**

MASS
188
AREA
20505
HEIGHT
21562
29-Jun-2023
14:27
ALSHS
Ser



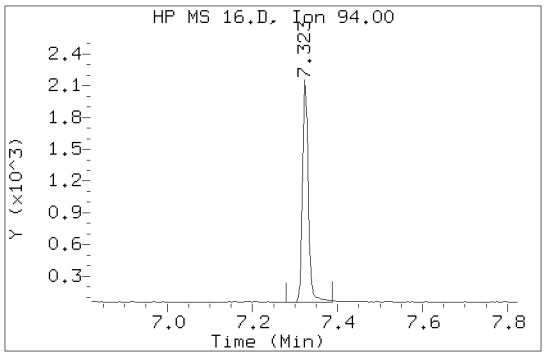

**BEFORE**

MASS
94
AREA
1950
HEIGHT
2099
16-Jun-2023
16:37
ALSHS
Server



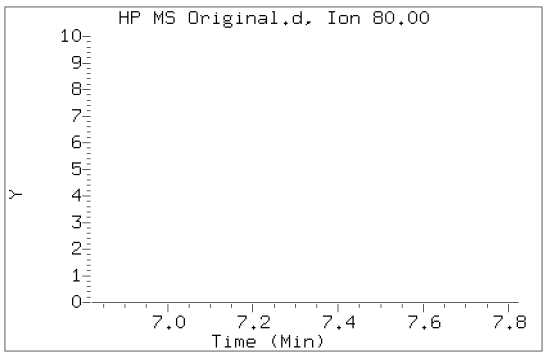

**AFTER**

MASS
94
AREA
1950
HEIGHT
2099
29-Jun-2023
14:27
ALSHS
Ser



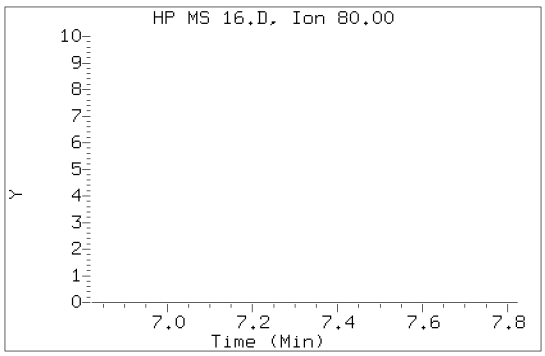

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser

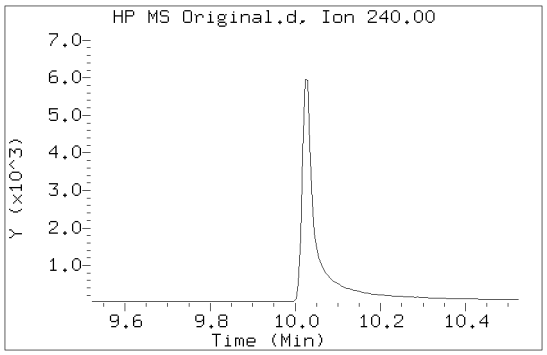



## Chrysene-d12 (1719-03-5)

Reason Code:

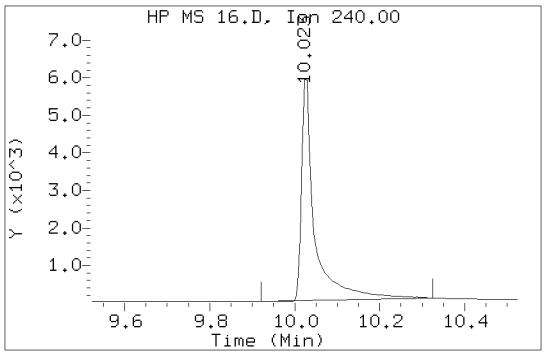
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
240
AREA
12662
HEIGHT
5881
29-Jun-2023
14:27
ALSHS
Ser



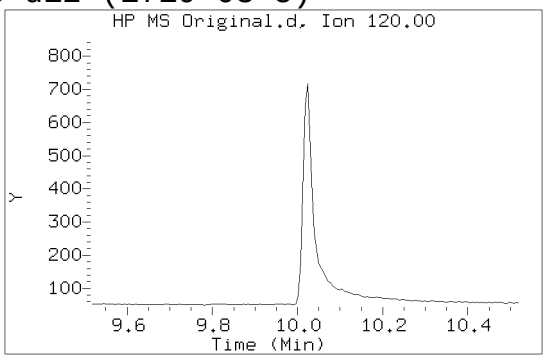
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Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

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

Reason Code:

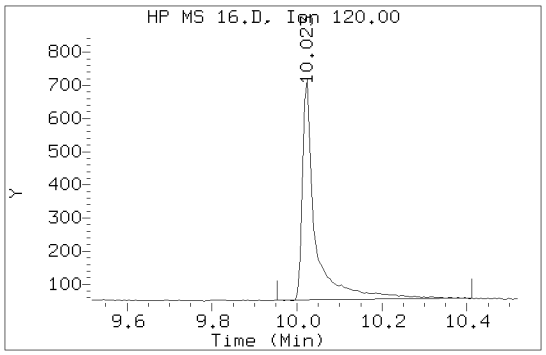
**BEFORE**

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



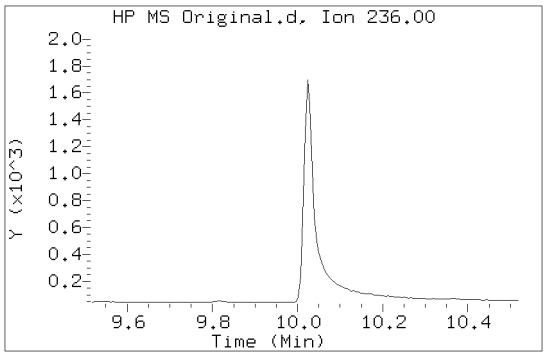

**AFTER**

MASS
120
AREA
1417
HEIGHT
664
29-Jun-2023
14:27
ALSHS
Ser



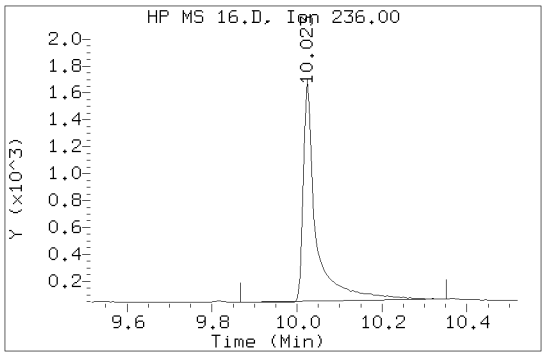

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
236
AREA
3367
HEIGHT
1641
29-Jun-2023
14:27
ALSHS
Ser

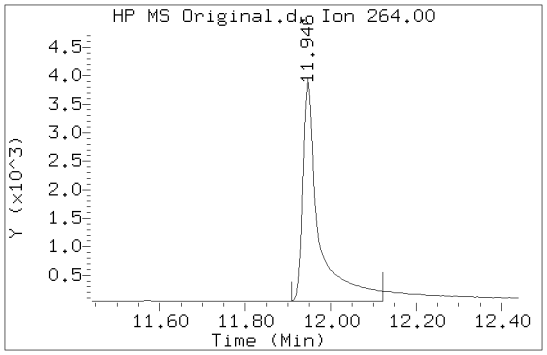



## Perylene-d12 (1520-96-3)

Reason Code:

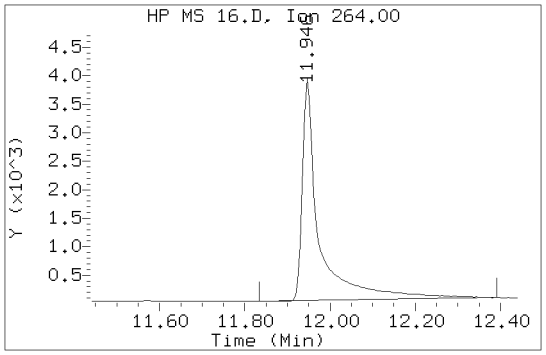
**BEFORE**

MASS
264
AREA
10066
HEIGHT
3896
16-Jun-2023
16:37
ALSHS
Server



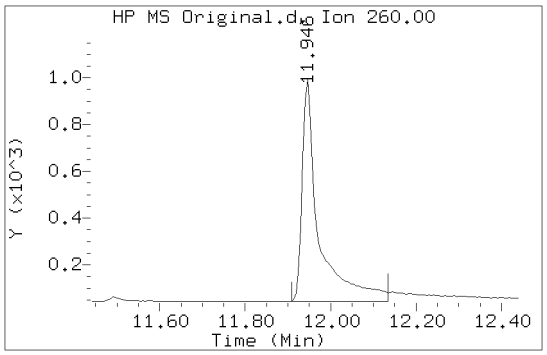

**AFTER**

MASS
264
AREA
10635
HEIGHT
3885
29-Jun-2023
14:27
ALSHS
Ser



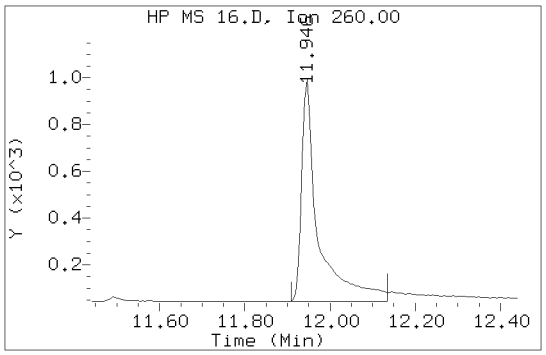

**BEFORE**

MASS
260
AREA
2544
HEIGHT
947
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
260
AREA
2544
HEIGHT
947
29-Jun-2023
14:27
ALSHS
Ser



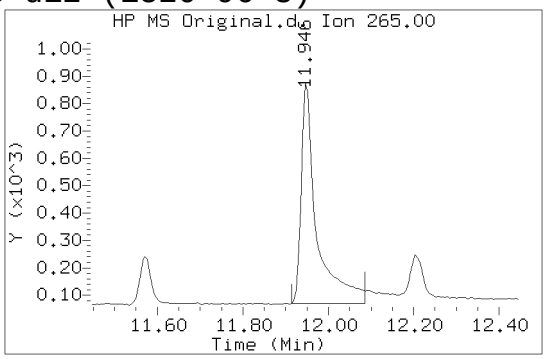
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Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

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

Reason Code:

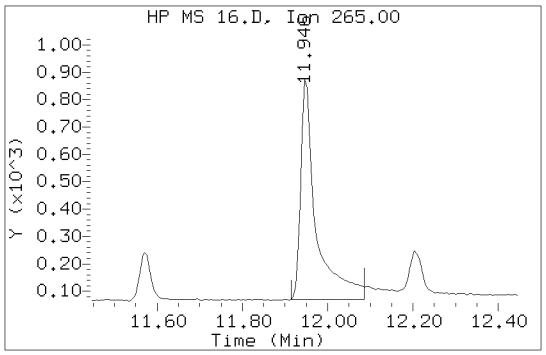
**BEFORE**

MASS
265
AREA
2015
HEIGHT
803
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
265
AREA
2015
HEIGHT
803
29-Jun-2023
14:27
ALSHS
Ser

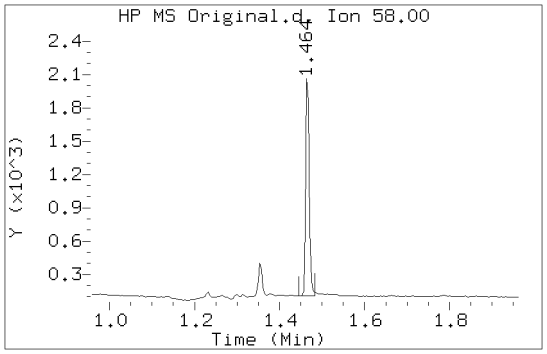



## 1,4-Dioxane ()

Reason Code:

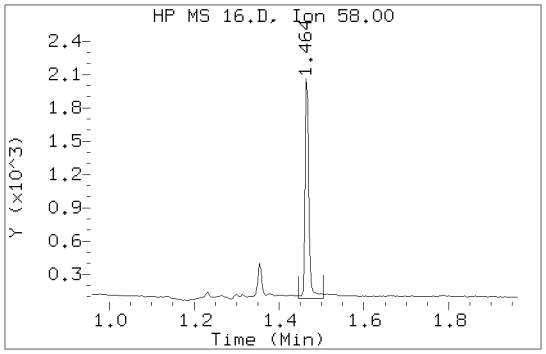
**BEFORE**

MASS
58
AREA
1149
HEIGHT
1956
16-Jun-2023
16:37
ALSHS
Server



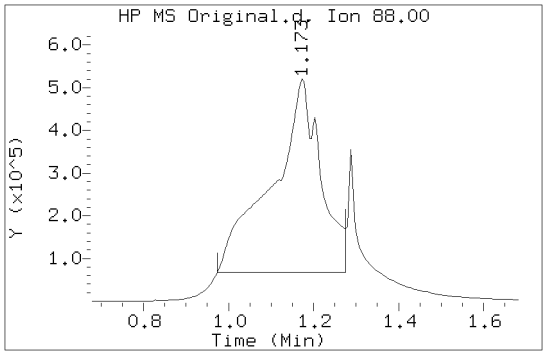

**AFTER**

MASS
58
AREA
1261
HEIGHT
1979
29-Jun-2023
14:27
ALSHS
Ser



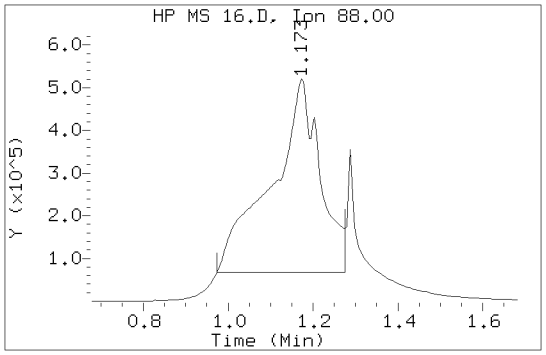

**BEFORE**

MASS
88
AREA
3609729
HEIGHT
452352
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
88
AREA
3609729
HEIGHT
452352
29-Jun-2023
14:27
ALSHS
Ser

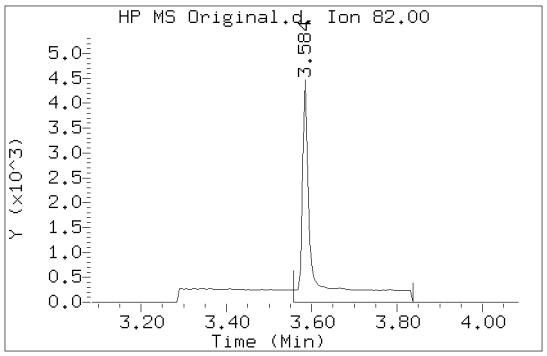



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

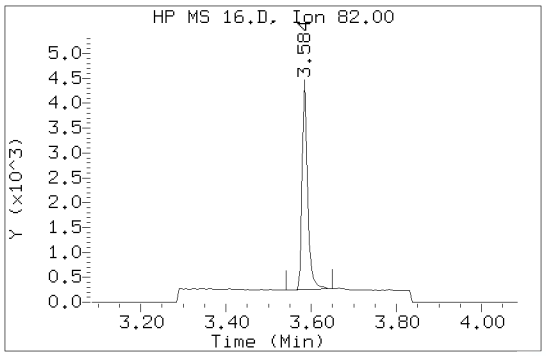
**BEFORE**

MASS
82
AREA
8001
HEIGHT
4469
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
82
AREA
3797
HEIGHT
4214
29-Jun-2023
14:27
ALSHS
Ser



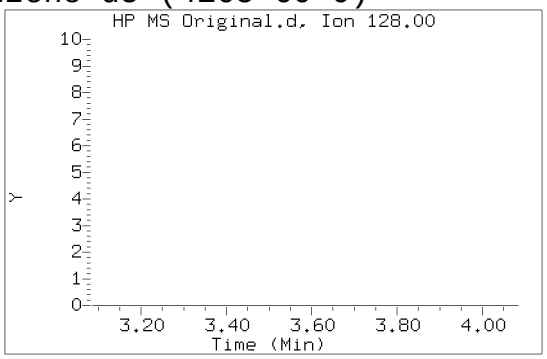
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

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

Reason Code:

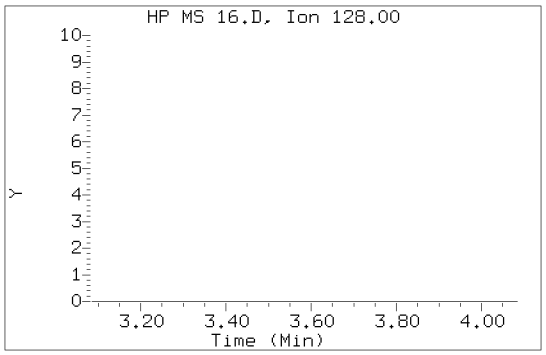
**BEFORE**

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



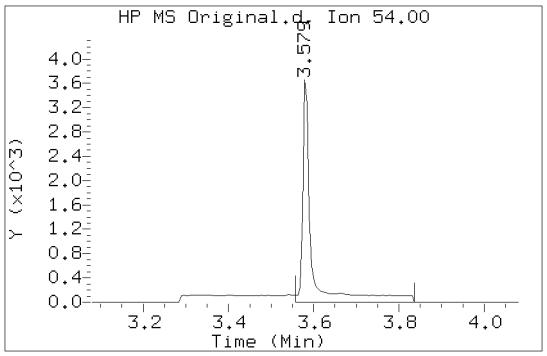

**AFTER**

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



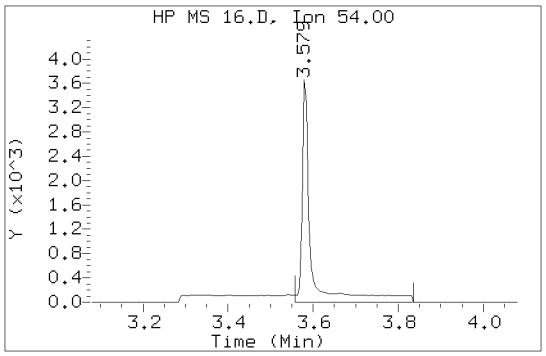

**BEFORE**

MASS
54
AREA
5382
HEIGHT
3655
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
54
AREA
5382
HEIGHT
3655
29-Jun-2023
14:27
ALSHS
Ser

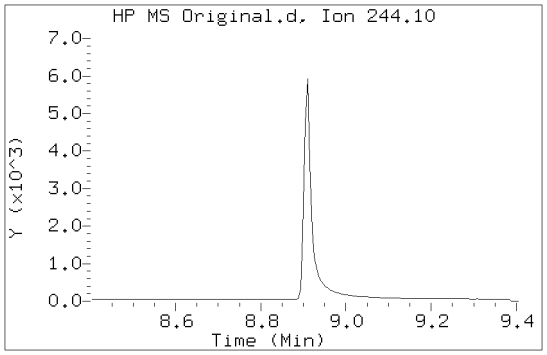



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

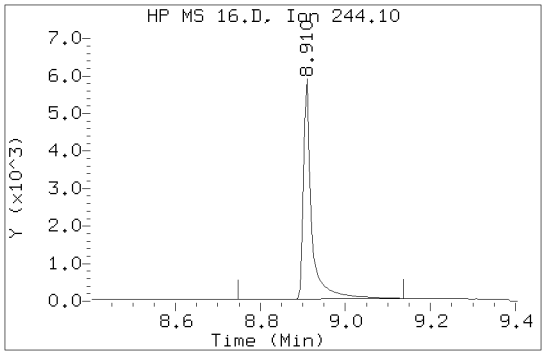
**BEFORE**

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



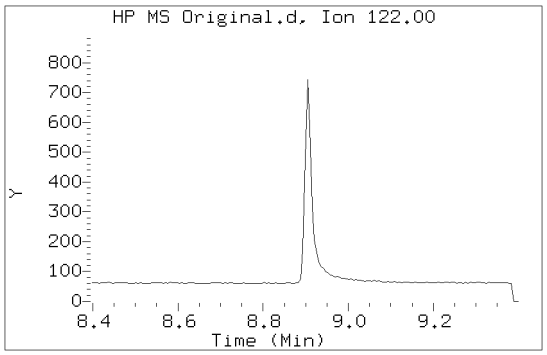

**AFTER**

MASS
244.1
AREA
7743
HEIGHT
5864
29-Jun-2023
14:27
ALSHS
Ser



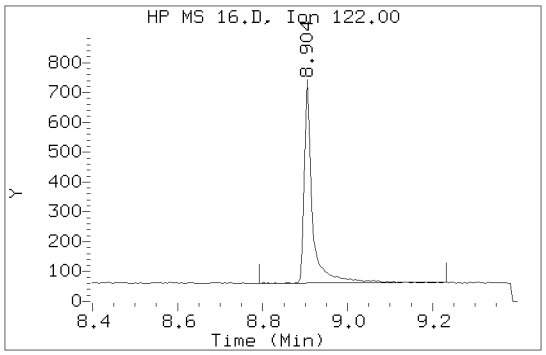

**BEFORE**

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
122
AREA
889
HEIGHT
681
29-Jun-2023
14:27
ALSHS
Ser



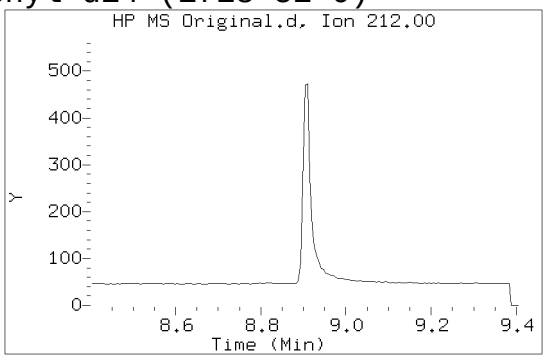
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

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

Reason Code:

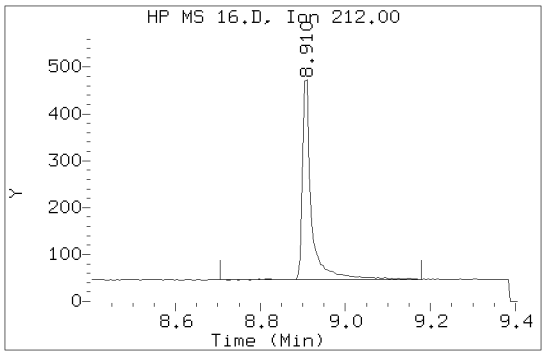
**BEFORE**

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
212
AREA
632
HEIGHT
426
29-Jun-2023
14:27
ALSHS
Ser

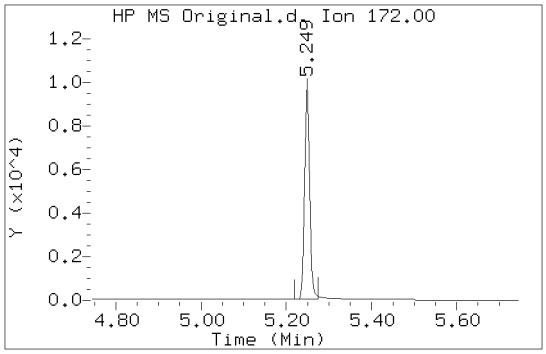



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

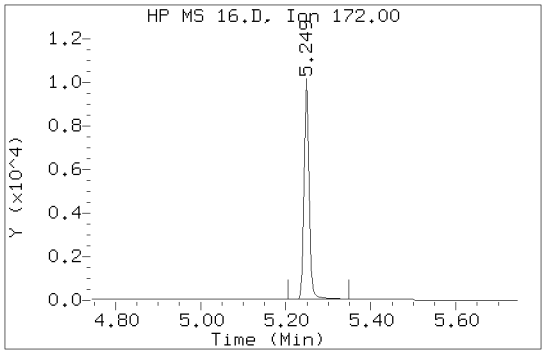
**BEFORE**

MASS
172
AREA
8416
HEIGHT
10125
16-Jun-2023
16:37
ALSHS
Server



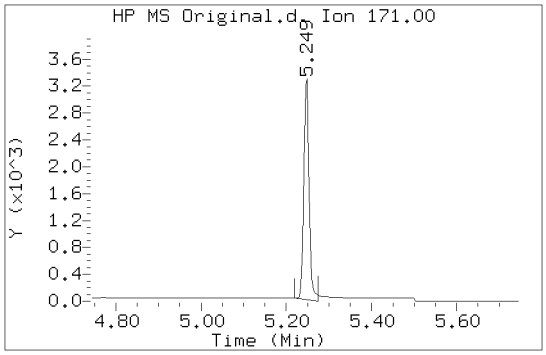

**AFTER**

MASS
172
AREA
8542
HEIGHT
10120
29-Jun-2023
14:27
ALSHS
Ser



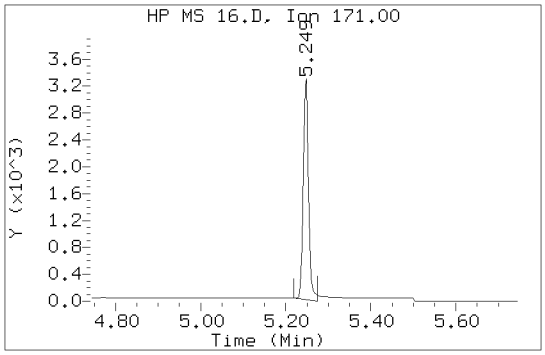

**BEFORE**

MASS
171
AREA
2911
HEIGHT
3286
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
171
AREA
2911
HEIGHT
3286
29-Jun-2023
14:27
ALSHS
Ser



01195874

right solutions.
right partner.

# Raw Data SV 6 439307

# Semi-Volatiles by EPA 8270SIM

Workorder

HS23060999

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

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\230619.b\91A.D Page 1
Report Date: 19-Jun-2023 10:58

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\SV6.i\230619.b\91A.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 19-JUN-2023 10:35
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230619.b\DFTPP.m
Meth Date : 14-Mar-2023 15:59 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: NAHSTW7015

| 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 | | |
| 4.945 | 6.357 | -1.412 | 198 | 96144 | | | 0.00- 100.00 | 85.16 |
| 4.945 | 6.357 | -1.412 | 51 | 43888 | | | 10.00- 80.00 | 45.65 |
| 4.945 | 6.357 | -1.412 | 68 | 425 | | | 0.00- 2.00 | 1.27 |
| 4.945 | 6.357 | -1.412 | 69 | 33584 | | | 0.00- 0.00 | 34.93 |
| 4.945 | 6.357 | -1.412 | 70 | 179 | | | 0.00- 2.00 | 0.53 |
| 4.945 | 6.357 | -1.412 | 127 | 38192 | | | 10.00- 80.00 | 39.72 |
| 4.945 | 6.357 | -1.412 | 197 | 612 | | | 0.00- 2.00 | 0.64 |
| 4.945 | 6.357 | -1.412 | 199 | 5790 | | | 5.00- 9.00 | 6.02 |
| 4.945 | 6.357 | -1.412 | 275 | 24824 | | | 10.00- 60.00 | 25.82 |
| 4.945 | 6.357 | -1.412 | 365 | 3694 | | | 1.00- 100.00 | 3.84 |
| 4.945 | 6.357 | -1.412 | 441 | 16992 | | | 0.01- 99.99 | 77.07 |
| 4.945 | 6.357 | -1.412 | 442 | 112896 | | | 50.00- 150.00 | 117.42 |
| 4.945 | 6.357 | -1.412 | 443 | 22048 | | | 15.00- 24.00 | 19.53 |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 198 | 45.65 |
| 68 | Less than 2.00% of mass 69 | 0.44 ( 1.27) |
| 69 | Mass 69 relative abundance | 34.93 |
| 70 | Less than 2.00% of mass 69 | 0.19 ( 0.53) |
| 127 | 10.00 - 80.00% of mass 198 | 39.72 |
| 197 | Less than 2.00% of mass 198 | 0.64 |
| 199 | 5.00 - 9.00% of mass 198 | 6.02 |
| 275 | 10.00 - 60.00% of mass 198 | 25.82 |
| 365 | 1.00 - 100.00% of mass 198 | 3.84 |
| 441 | Present, but less than mass 443 | 17.67 |
| 442 | 50.00 - 150.00% of mass 198 | 117.42 |
| 443 | 15.00 - 24.00% of mass 442 | 22.93 ( 19.53) |

Data File: 91A.D
Spectrum: HP ChemStation MS 91A.D, Scan 442: 4.951 min.
Location of Maximum: 442.00
Number of points: 237

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 712 | 117.90 | 635 | 187.10 | 3166 | 258.00 | 3324 |
| 36.90 | 157 | 119.00 | 180 | 188.00 | 358 | 259.00 | 601 |
| 38.00 | 516 | 120.10 | 167 | 189.00 | 632 | 265.00 | 1237 |
| 39.00 | 2674 | 122.00 | 757 | 190.00 | 171 | 265.90 | 225 |
| 39.90 | 487 | 123.00 | 1219 | 191.00 | 264 | 271.80 | 209 |
| 40.90 | 217 | 124.00 | 574 | 192.00 | 1062 | 273.00 | 1777 |
| 44.00 | 667 | 125.00 | 335 | 193.00 | 1172 | 274.00 | 4745 |
| 49.00 | 928 | 126.20 | 259 | 194.00 | 224 | 275.00 | 24824 |
| 50.00 | 9965 | 127.00 | 38192 | 195.10 | 226 | 276.00 | 3146 |
| 51.00 | 43888 | 128.00 | 2986 | 196.00 | 2663 | 277.00 | 1973 |
| 52.00 | 2405 | 129.00 | 14970 | 196.90 | 612 | 277.90 | 355 |
| 55.00 | 168 | 130.00 | 1364 | 198.00 | 96144 | 283.00 | 275 |
| 56.00 | 1288 | 131.10 | 239 | 199.00 | 5790 | 284.00 | 209 |
| 57.00 | 3420 | 131.90 | 150 | 200.00 | 683 | 285.00 | 503 |
| 58.00 | 194 | 133.90 | 364 | 201.40 | 445 | 292.10 | 162 |
| 61.00 | 391 | 135.00 | 1138 | 202.90 | 759 | 293.00 | 555 |
| 61.90 | 573 | 136.00 | 468 | 204.00 | 3449 | 294.90 | 199 |
| 63.00 | 1428 | 137.10 | 623 | 205.00 | 5448 | 296.00 | 7483 |
| 63.90 | 173 | 138.10 | 152 | 206.10 | 23496 | 297.00 | 1134 |
| 65.00 | 704 | 139.80 | 176 | 207.00 | 3291 | 301.90 | 184 |
| 68.00 | 425 | 141.00 | 1827 | 208.00 | 638 | 303.00 | 899 |
| 69.00 | 33584 | 141.90 | 503 | 208.90 | 226 | 304.00 | 233 |
| 69.90 | 179 | 142.90 | 407 | 210.10 | 262 | 313.90 | 409 |
| 73.00 | 286 | 146.00 | 279 | 211.00 | 836 | 314.90 | 698 |
| 74.00 | 3371 | 147.00 | 942 | 213.00 | 175 | 316.00 | 362 |
| 75.00 | 4871 | 148.00 | 2165 | 215.00 | 301 | 321.00 | 265 |
| 76.00 | 1540 | 148.90 | 513 | 215.90 | 452 | 323.00 | 2268 |
| 77.10 | 38856 | 149.90 | 154 | 217.00 | 6984 | 324.00 | 582 |
| 78.10 | 2737 | 151.00 | 295 | 218.00 | 613 | 326.90 | 490 |
| 79.00 | 2280 | 151.70 | 202 | 221.00 | 5013 | 327.90 | 259 |
| 80.00 | 1481 | 153.00 | 593 | 222.00 | 894 | 332.00 | 178 |
| 81.00 | 2730 | 153.90 | 444 | 223.00 | 1210 | 333.00 | 176 |
| 82.00 | 683 | 155.00 | 965 | 224.00 | 14128 | 334.00 | 1730 |
| 83.00 | 706 | 156.00 | 1820 | 225.00 | 3221 | 335.00 | 283 |
| 84.00 | 332 | 157.00 | 352 | 226.00 | 443 | 341.00 | 232 |
| 85.00 | 460 | 158.00 | 508 | 227.00 | 5648 | 345.90 | 481 |
| 86.00 | 821 | 159.00 | 293 | 228.00 | 864 | 351.90 | 824 |
| 87.00 | 409 | 160.00 | 524 | 229.00 | 1099 | 353.00 | 544 |
| 88.00 | 199 | 161.00 | 1013 | 231.00 | 460 | 354.00 | 781 |
| 91.00 | 625 | 162.10 | 306 | 234.00 | 398 | 365.00 | 3694 |
| 92.00 | 489 | 165.00 | 671 | 234.90 | 225 | 365.90 | 471 |
| 93.00 | 3808 | 166.00 | 572 | 236.00 | 261 | 370.90 | 262 |
| 93.90 | 294 | 167.00 | 4031 | 237.00 | 400 | 372.00 | 1823 |
| 96.00 | 167 | 168.00 | 1654 | 238.90 | 204 | 373.10 | 297 |
| 98.00 | 2671 | 169.00 | 425 | 240.00 | 264 | 383.00 | 374 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 99.00 | 2178 | 170.90 | 179 | 240.90 | 356 | 390.00 | 231 |
| 100.00 | 252 | 171.90 | 312 | 242.00 | 856 | 402.00 | 825 |
| 101.00 | 1459 | 173.00 | 421 | 243.00 | 710 | 403.00 | 887 |
| 103.00 | 423 | 174.00 | 672 | 244.10 | 11102 | 404.00 | 318 |
| 104.00 | 928 | 175.00 | 1705 | 245.10 | 1574 | 420.90 | 662 |
| 105.00 | 1286 | 176.00 | 448 | 246.00 | 2194 | 422.00 | 991 |
| 106.00 | 338 | 177.00 | 568 | 247.00 | 342 | 423.00 | 5592 |
| 107.00 | 12747 | 178.00 | 253 | 248.00 | 150 | 424.00 | 1218 |
| 108.00 | 1857 | 179.00 | 3154 | 249.00 | 335 | 441.00 | 16992 |
| 109.00 | 284 | 180.00 | 2693 | 252.10 | 152 | 442.00 | 112896 |
| 110.00 | 20744 | 181.00 | 975 | 253.10 | 334 | 443.00 | 22048 |
| 111.00 | 3303 | 182.10 | 210 | 254.00 | 447 | 444.00 | 2373 |
| 112.00 | 534 | 184.00 | 240 | 255.00 | 60960 | | |
| 116.00 | 686 | 185.00 | 1421 | 256.00 | 9087 | | |
| 117.00 | 8768 | 186.00 | 12055 | 257.00 | 687 | | |

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230619.b\03.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 19-JUN-2023 11:32
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230619.b\DXSIM.m
Meth Date : 19-Jun-2023 12:08 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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 | 3.074 | 3.074 | (1.000) | 5324 | 0.10000 | (a) |
| * 45 Naphthalene-d8 | 136 | 4.164 | 4.164 | (1.000) | 17757 | 0.10000 | |
| $ 33 Nitrobenzene-d5 | 82 | 3.530 | 3.530 | (0.848) | 3962 | 0.08000 | 0.07344(M) |
| * 86 Acenaphthene-d10 | 164 | 5.827 | 5.827 | (1.000) | 10139 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 5.193 | 5.193 | (0.891) | 8699 | 0.08000 | 0.08390 |
| * 126 Phenanthrene-d10 | 188 | 7.266 | 7.266 | (1.000) | 20149 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 9.950 | 9.950 | (1.000) | 15207 | 0.10000 | |
| $ 158 4-Terphenyl-d14 | 244 | 8.848 | 8.848 | (0.889) | 8457 | 0.08000 | 0.07538(M) |
| * 198 Perylene-d12 | 264 | 11.846 | 11.846 | (1.000) | 11919 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 1.427 | 1.427 | (0.464) | 1416 | 0.08000 | 0.07839(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.

01195880

Data File: \\nahstws005\Target\chem\SV6.i\230619.b\03.D



Date : 19-JUN-2023 11:32

Client ID: 14DX-0.08

Instrument: SV6.i

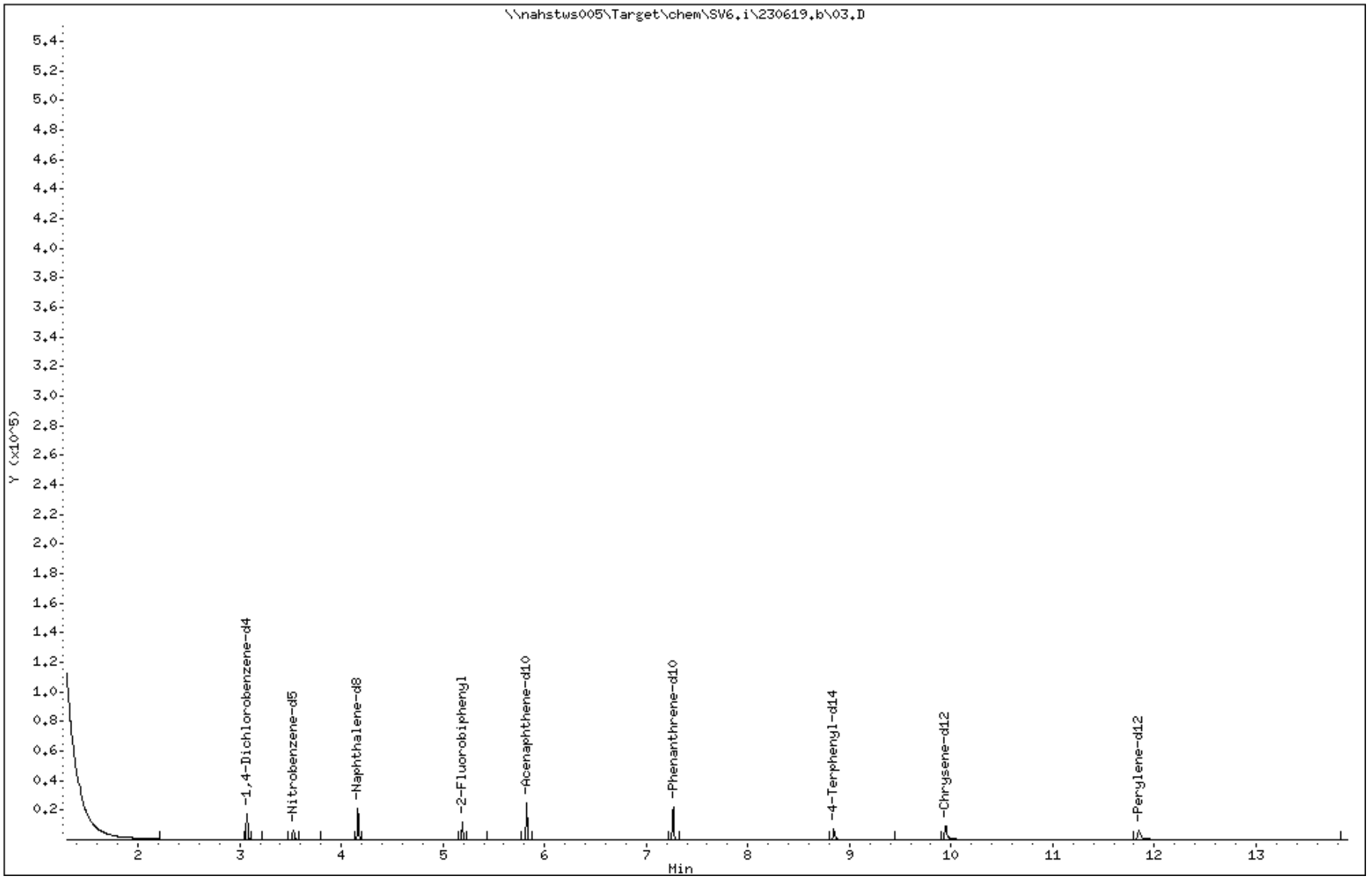
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



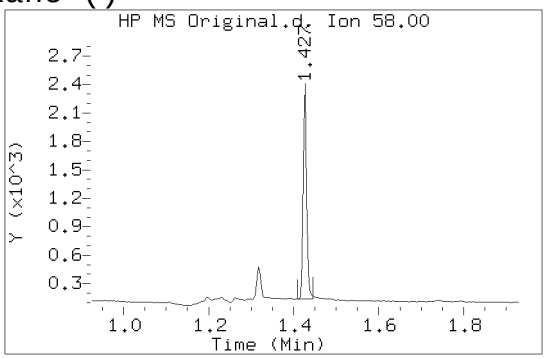
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\03.D
Inj Date : 19-JUN-2023 11:32
InstruID : SV6.i
LabSampID : 14DX-0.08

## 1,4-Dioxane ()

Reason Code:

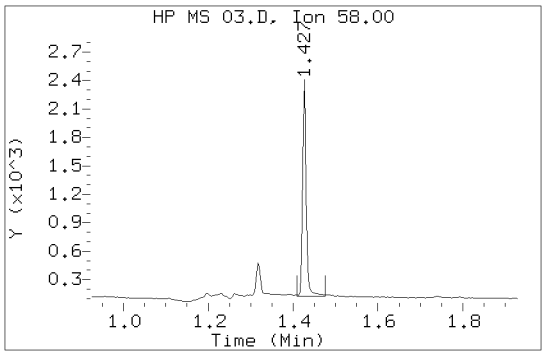
BEFORE

MASS
58
AREA
1336
HEIGHT
2273
19-Jun-2023
11:48
ALSHS
Server



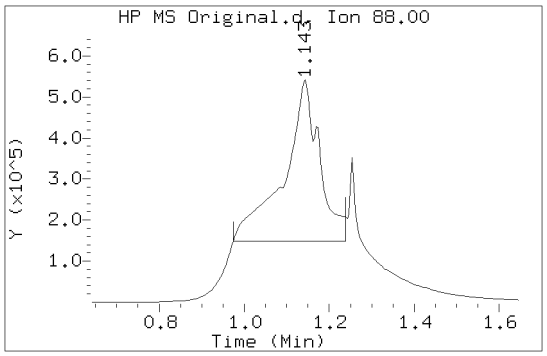

AFTER

MASS
58
AREA
1416
HEIGHT
2287
19-Jun-2023
12:08
ALSHS
Se



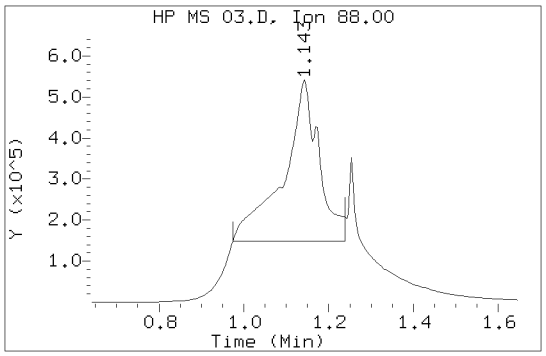

BEFORE

MASS
88
AREA
2295284
HEIGHT
393088
19-Jun-2023
11:48
ALSHS
Server




AFTER

MASS
88
AREA
2295284
HEIGHT
393088
19-Jun-2023
12:08
ALSHS
Se

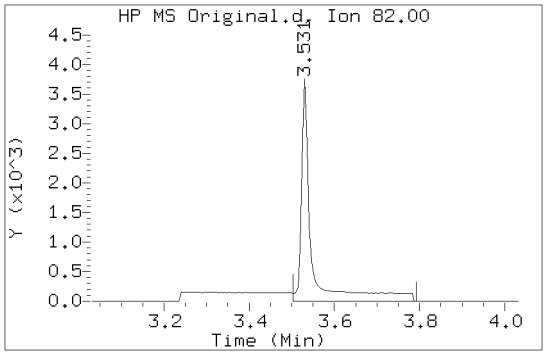



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

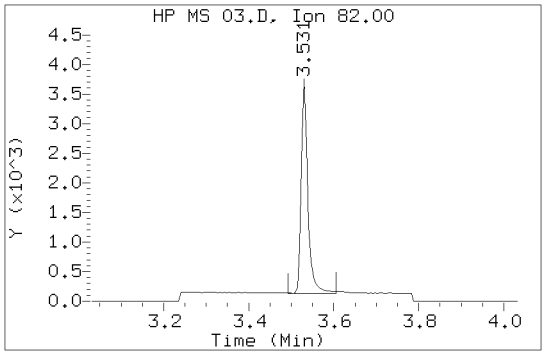
BEFORE

MASS
82
AREA
6234
HEIGHT
3755
19-Jun-2023
11:48
ALSHS
Server



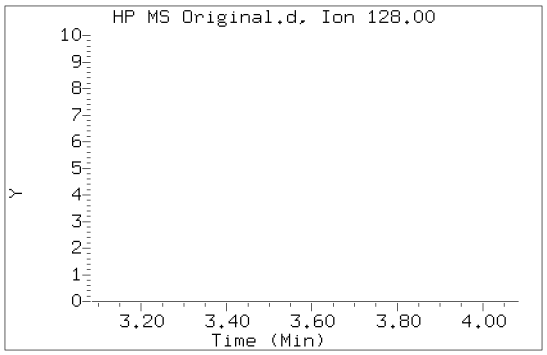

AFTER

MASS
82
AREA
3962
HEIGHT
3625
19-Jun-2023
12:08
ALSHS
Se



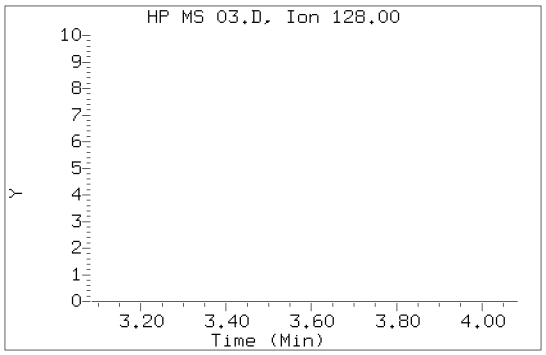

BEFORE

MASS
128
AREA
0
HEIGHT
0
19-Jun-2023
11:48
ALSHS
Server




AFTER

MASS
128
AREA
0
HEIGHT
0
19-Jun-2023
12:08
ALSHS
Se



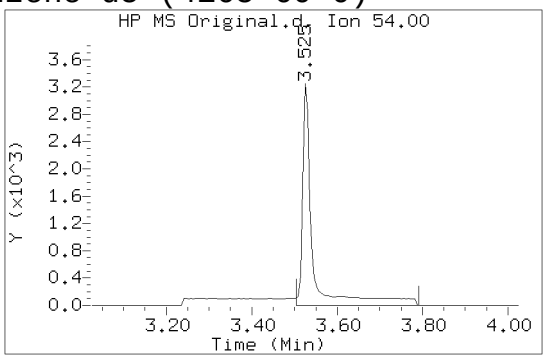
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\03.D
Inj Date : 19-JUN-2023 11:32
InstruID : SV6.i
LabSampID : 14DX-0.08

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

Reason Code:

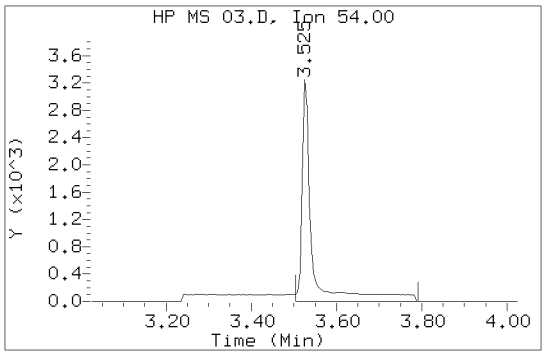
**BEFORE**

MASS
54
AREA
5223
HEIGHT
3248
19-Jun-2023
11:48
ALSHS
Server




**AFTER**

MASS
54
AREA
5223
HEIGHT
3248
19-Jun-2023
12:08
ALSHS
Se

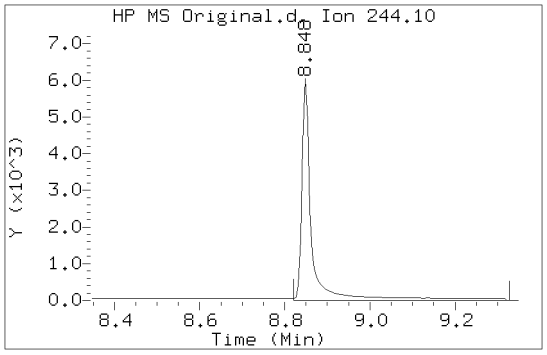



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

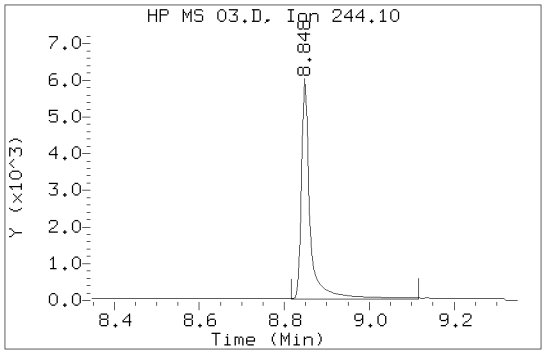
**BEFORE**

MASS
244.1
AREA
9888
HEIGHT
6043
19-Jun-2023
11:48
ALSHS
Server



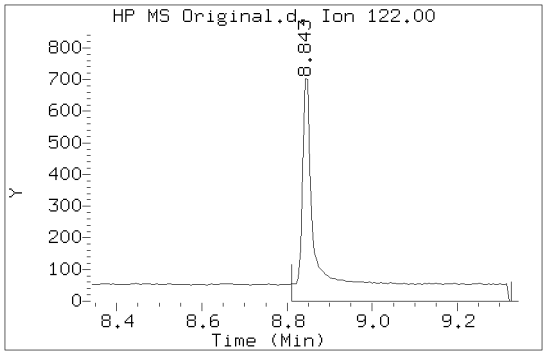

**AFTER**

MASS
244.1
AREA
8457
HEIGHT
6001
19-Jun-2023
12:08
ALSHS
Se



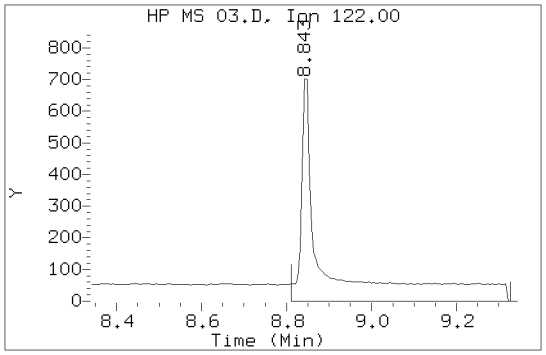

**BEFORE**

MASS
122
AREA
2598
HEIGHT
702
19-Jun-2023
11:48
ALSHS
Server



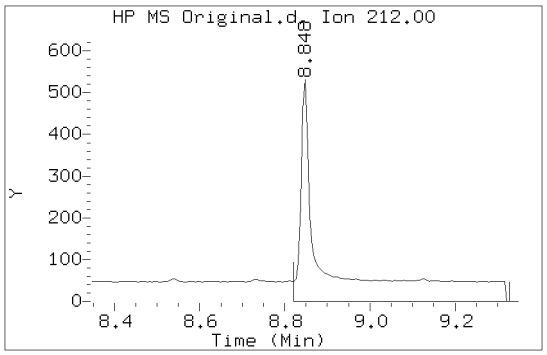

**AFTER**

MASS
122
AREA
2598
HEIGHT
702
19-Jun-2023
12:08
ALSHS
Se



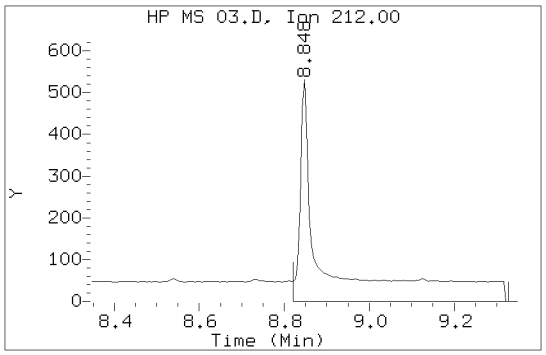

**BEFORE**

MASS
212
AREA
2097
HEIGHT
531
19-Jun-2023
11:48
ALSHS
Server




**AFTER**

MASS
212
AREA
2097
HEIGHT
531
19-Jun-2023
12:08
ALSHS
Se



Data File: \\nahstws005\Target\chem\SV6.i\230619.b\05.D Page 1
Report Date: 20-Jun-2023 09:53

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230619.b\05.D
Lab Smp Id: MBLK-195305 Client Smp ID: MBLK-195305
Inj Date : 19-JUN-2023 12:38
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-195305
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230619.b\DXSIM.m
Meth Date : 20-Jun-2023 09:42 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 5 QC Sample: BLANK
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 | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) | |
|---|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 3.074 | 3.074 | (1.000) | 5382 | 0.10000 | | (a) |
| * 45 Naphthalene-d8 | 136 | 4.164 | 4.164 | (1.000) | 17034 | 0.10000 | | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.530 | 3.530 | (0.848) | 4249 | 0.08210 | 0.08210 | (M) |
| * 86 Acenaphthene-d10 | 164 | 5.825 | 5.825 | (1.000) | 10678 | 0.10000 | | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 5.189 | 5.196 | (0.891) | 9648 | 0.08836 | 0.08836 | |
| * 126 Phenanthrene-d10 | 188 | 7.264 | 7.270 | (1.000) | 19433 | 0.10000 | | (M) |
| * 182 Chrysene-d12 | 240 | 9.949 | 9.954 | (1.000) | 16340 | 0.10000 | | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.846 | 8.851 | (0.889) | 10446 | 0.08665 | 0.08665 | (M) |
| * 198 Perylene-d12 | 264 | 11.844 | 11.855 | (1.000) | 11318 | 0.10000 | | |

QC Flag Legend

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

01195884

Data File: \\nahstws005\Target\chem\SV6.i\230619.b\05.D



Date : 19-JUN-2023 12:38

Client ID: MBLK-195305

Instrument: SV6.i

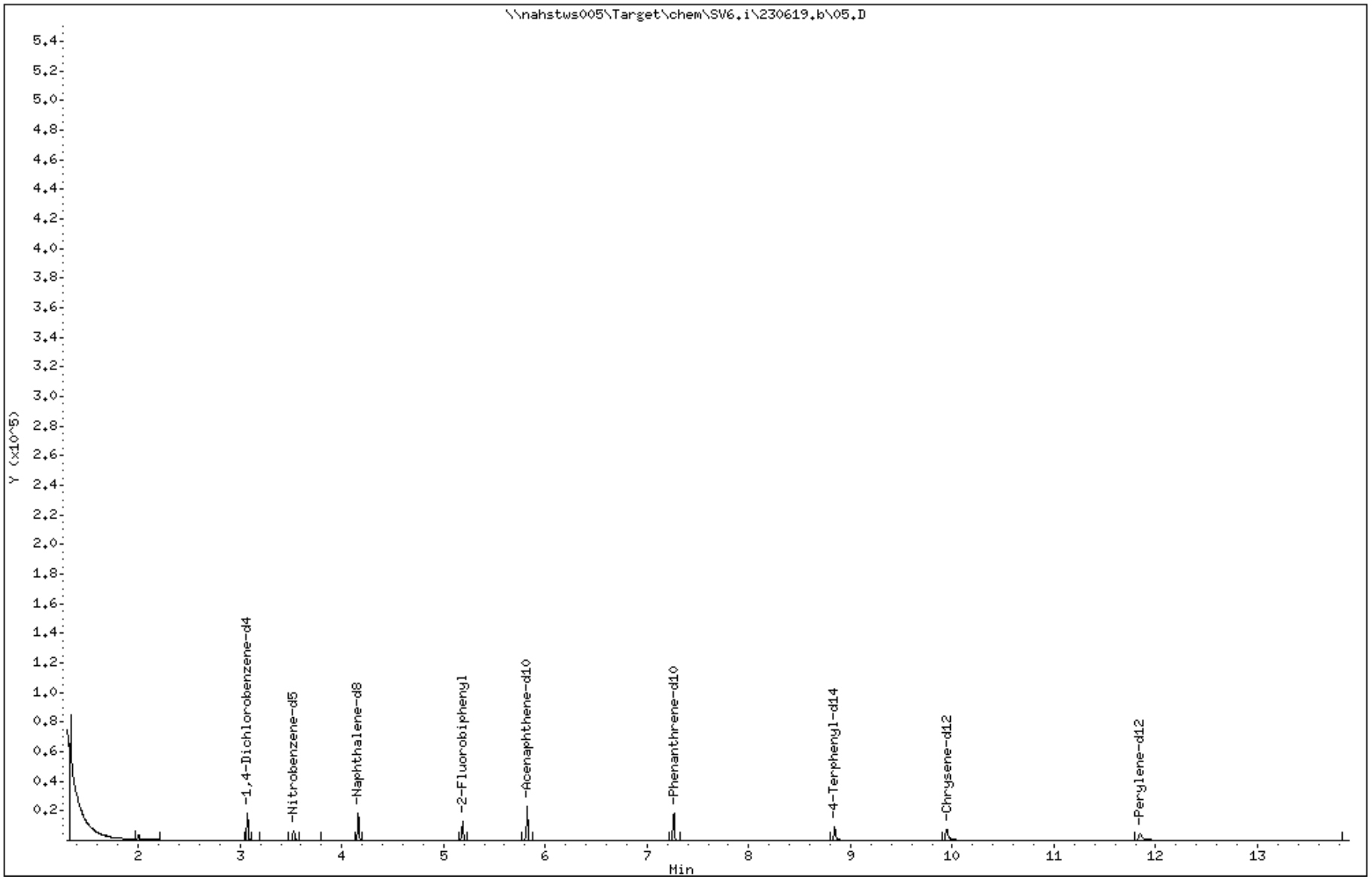
Sample Info: MBLK-195305

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



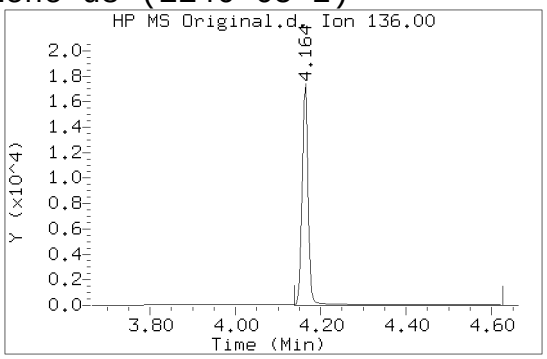
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\05.D
Inj Date : 19-JUN-2023 12:38
InstruID : SV6.i
LabSampID : MBLK-195305

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

Reason Code:

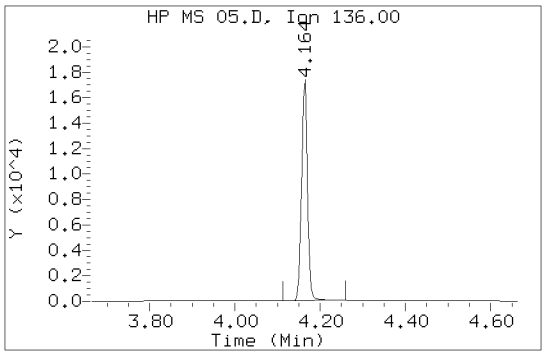
BEFORE

MASS
136
AREA
18825
HEIGHT
17416
19-Jun-2023
12:55
ALSHS
Server



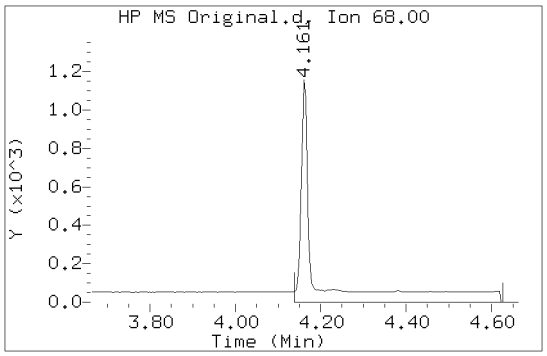

AFTER

MASS
136
AREA
17034
HEIGHT
17355
20-Jun-2023
09:53
ALSHS
Se



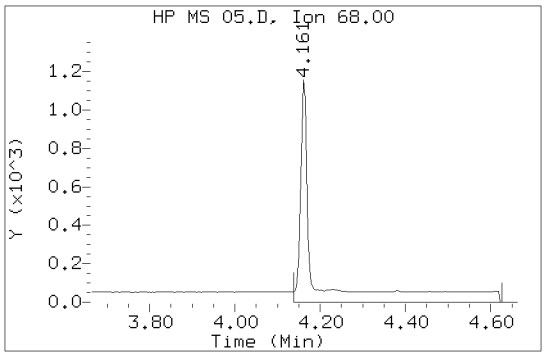

BEFORE

MASS
68
AREA
2670
HEIGHT
1157
19-Jun-2023
12:55
ALSHS
Server




AFTER

MASS
68
AREA
2670
HEIGHT
1157
20-Jun-2023
09:53
ALSHS
Se

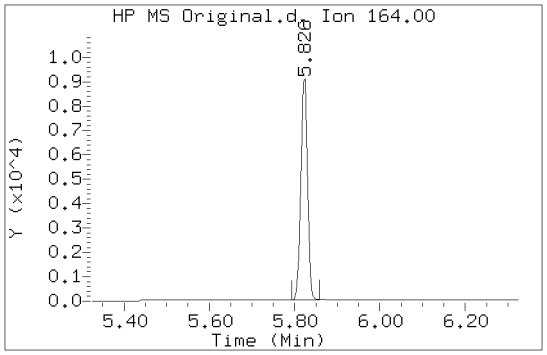



## Acenaphthene-d10 (15067-26-2)

Reason Code:

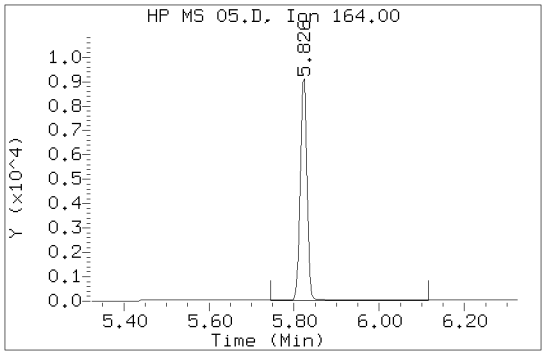
BEFORE

MASS
164
AREA
9920
HEIGHT
9068
19-Jun-2023
12:55
ALSHS
Server



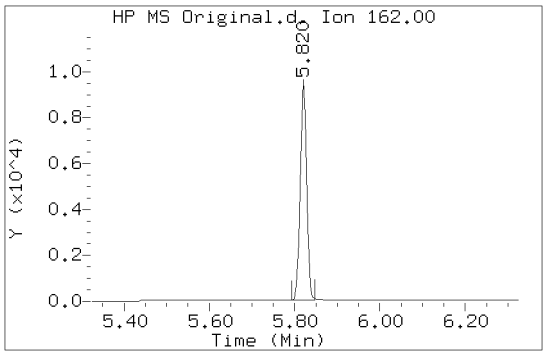

AFTER

MASS
164
AREA
10678
HEIGHT
9098
20-Jun-2023
09:53
ALSHS
Se



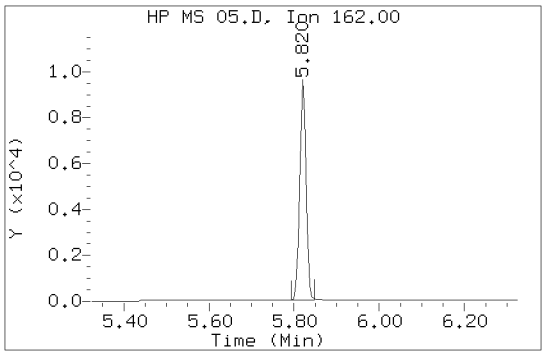

BEFORE

MASS
162
AREA
9952
HEIGHT
9601
19-Jun-2023
12:55
ALSHS
Server




AFTER

MASS
162
AREA
9952
HEIGHT
9601
20-Jun-2023
09:53
ALSHS
Se



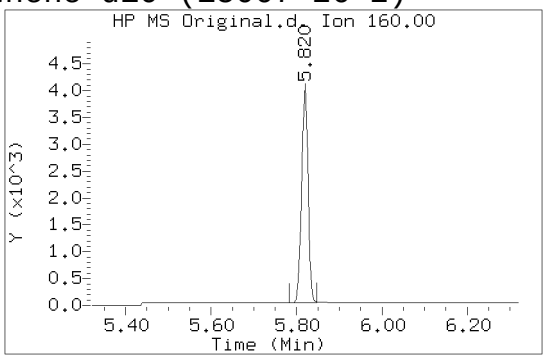
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\05.D
Inj Date : 19-JUN-2023 12:38
InstruID : SV6.i
LabSampID : MBLK-195305

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

Reason Code:

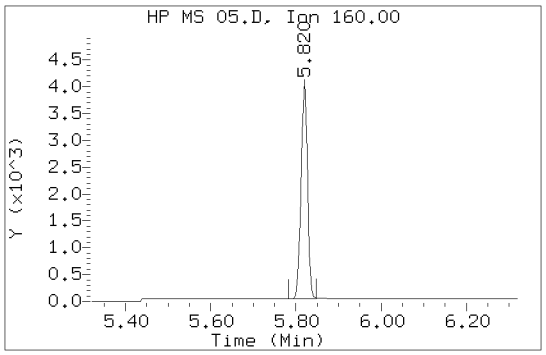
**BEFORE**

MASS
160
AREA
4154
HEIGHT
4084
19-Jun-2023
12:55
ALSHS
Server




**AFTER**

MASS
160
AREA
4154
HEIGHT
4084
20-Jun-2023
09:53
ALSHS
Se

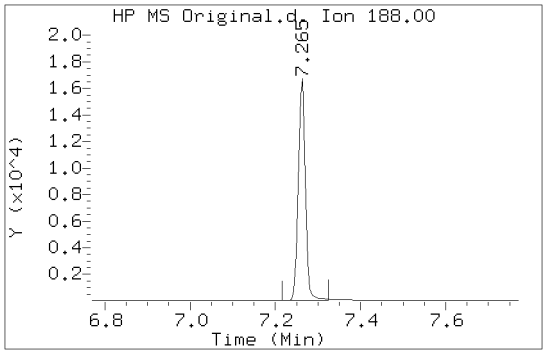



## Phenanthrene-d10 (1517-22-2)

Reason Code:

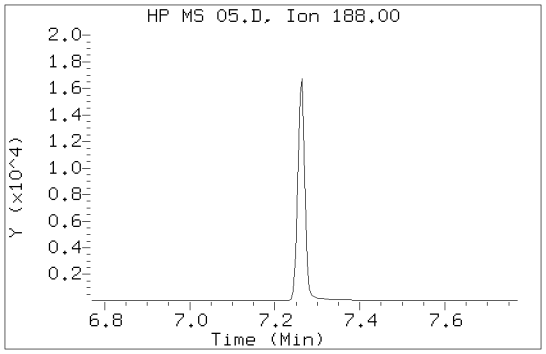
**BEFORE**

MASS
188
AREA
19246
HEIGHT
16682
19-Jun-2023
12:55
ALSHS
Server



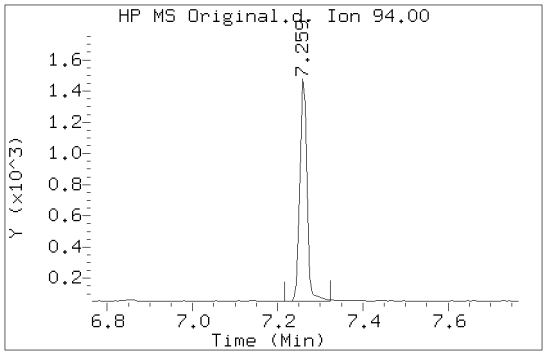

**AFTER**

MASS
188
AREA
19433
HEIGHT
16680
20-Jun-2023
09:53
ALSHS
Se



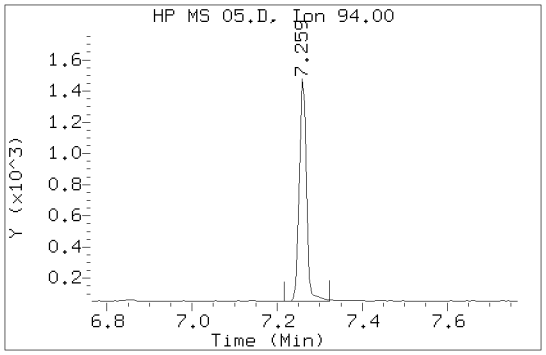

**BEFORE**

MASS
94
AREA
1642
HEIGHT
1423
19-Jun-2023
12:55
ALSHS
Server



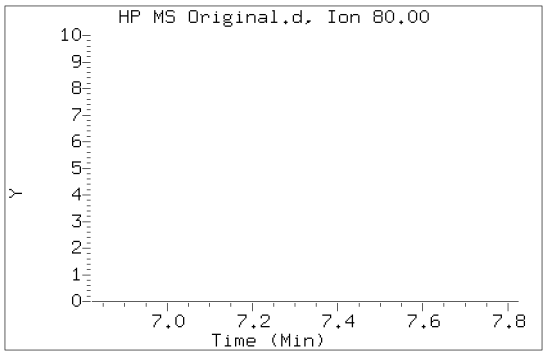

**AFTER**

MASS
94
AREA
1642
HEIGHT
1423
20-Jun-2023
09:53
ALSHS
Se



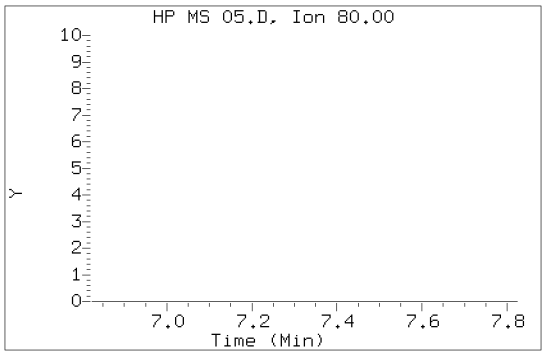

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
19-Jun-2023
12:55
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
20-Jun-2023
09:53
ALSHS
Se



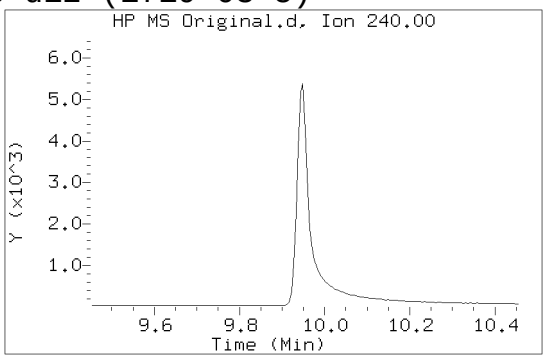
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\05.D
Inj Date : 19-JUN-2023 12:38
InstruID : SV6.i
LabSampID : MBLK-195305

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

Reason Code:

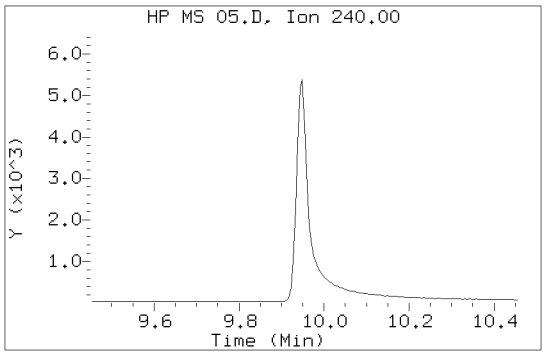
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
19-Jun-2023
12:55
ALSHS
Server



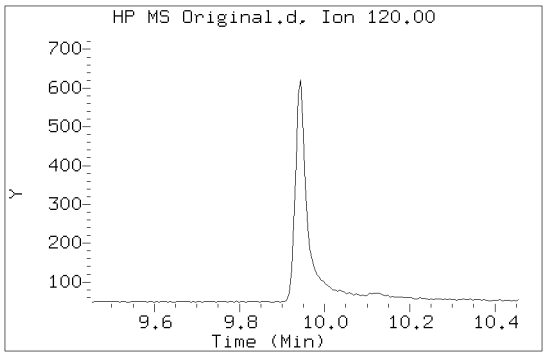

**AFTER**

MASS
240
AREA
16340
HEIGHT
5360
20-Jun-2023
09:53
ALSHS
Se



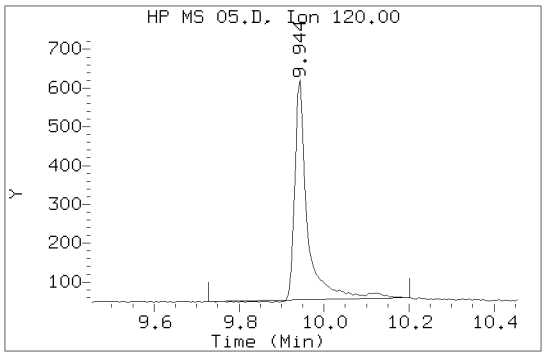

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
19-Jun-2023
12:55
ALSHS
Server



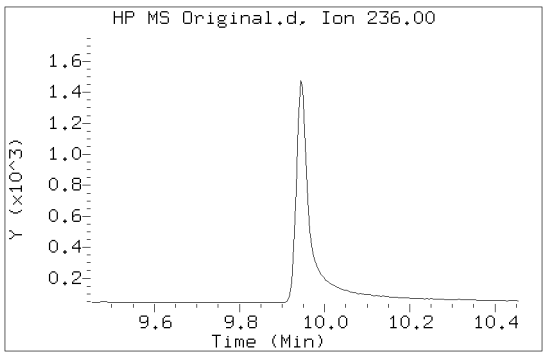

**AFTER**

MASS
120
AREA
1165
HEIGHT
566
20-Jun-2023
09:53
ALSHS
Se



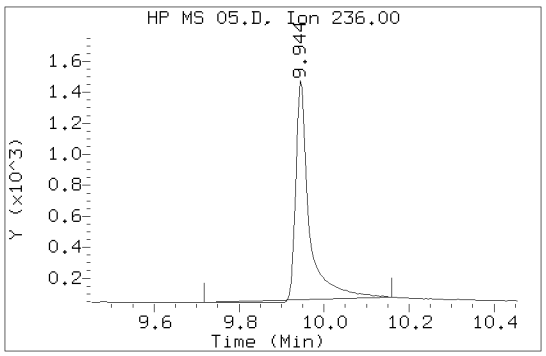

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
19-Jun-2023
12:55
ALSHS
Server




**AFTER**

MASS
236
AREA
3026
HEIGHT
1412
20-Jun-2023
09:53
ALSHS
Se

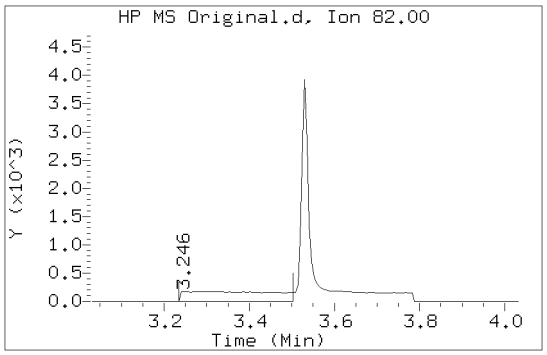



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

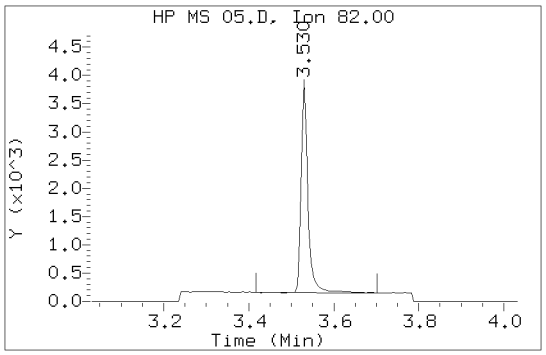
**BEFORE**

MASS
82
AREA
2613
HEIGHT
174
19-Jun-2023
12:55
ALSHS
Server




**AFTER**

MASS
82
AREA
4249
HEIGHT
3769
20-Jun-2023
09:53
ALSHS
Se



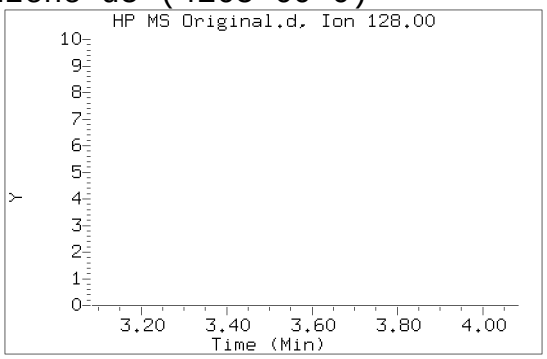
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\05.D
Inj Date : 19-JUN-2023 12:38
InstruID : SV6.i
LabSampID : MBLK-195305

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

Reason Code:

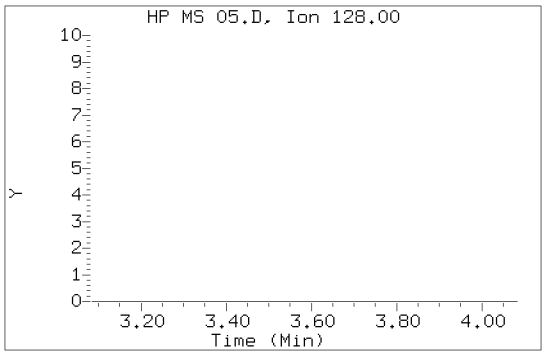
**BEFORE**

MASS
128
AREA
0
HEIGHT
0
19-Jun-2023
12:55
ALSHS
Server



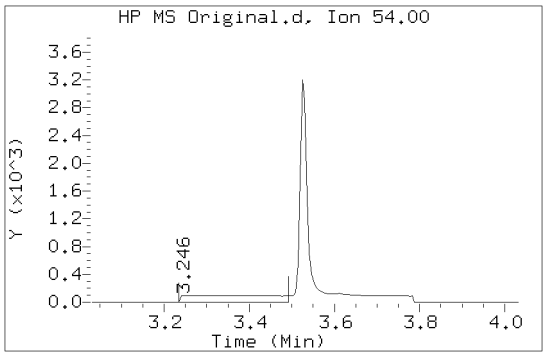

**AFTER**

MASS
128
AREA
0
HEIGHT
0
20-Jun-2023
09:53
ALSHS
Se



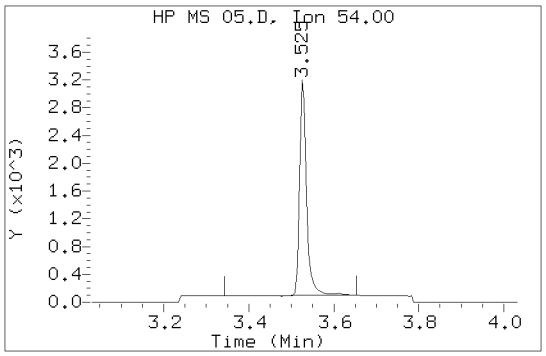

**BEFORE**

MASS
54
AREA
1415
HEIGHT
96
19-Jun-2023
12:55
ALSHS
Server




**AFTER**

MASS
54
AREA
3547
HEIGHT
3103
20-Jun-2023
09:53
ALSHS
Se

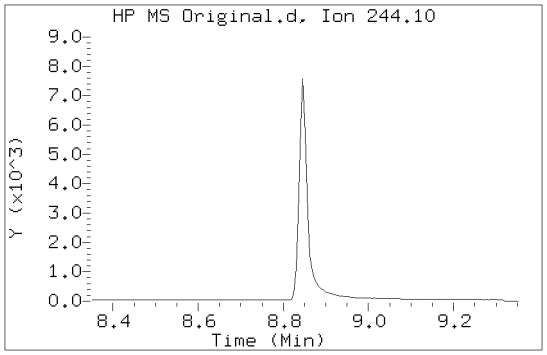



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

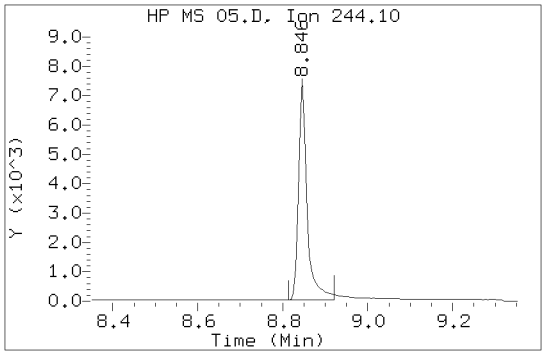
**BEFORE**

MASS
244.1
AREA
0
HEIGHT
0
19-Jun-2023
12:55
ALSHS
Server



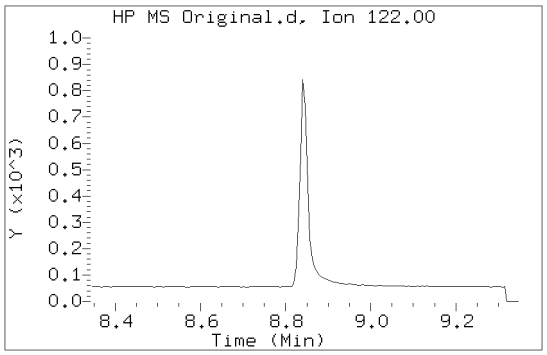

**AFTER**

MASS
244.1
AREA
10446
HEIGHT
7527
20-Jun-2023
09:53
ALSHS
Se



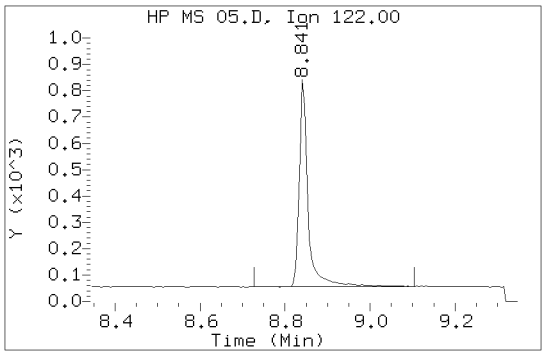

**BEFORE**

MASS
122
AREA
0
HEIGHT
0
19-Jun-2023
12:55
ALSHS
Server




**AFTER**

MASS
122
AREA
1102
HEIGHT
785
20-Jun-2023
09:53
ALSHS
Se



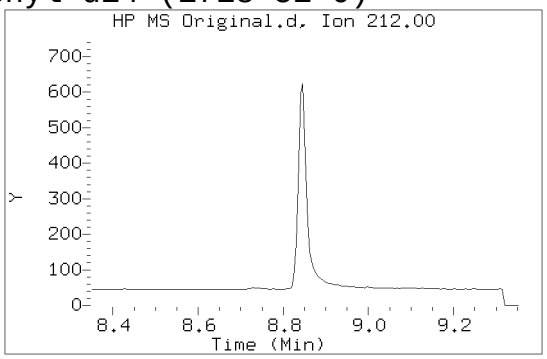
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\05.D
Inj Date : 19-JUN-2023 12:38
InstruID : SV6.i
LabSampID : MBLK-195305

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

Reason Code:

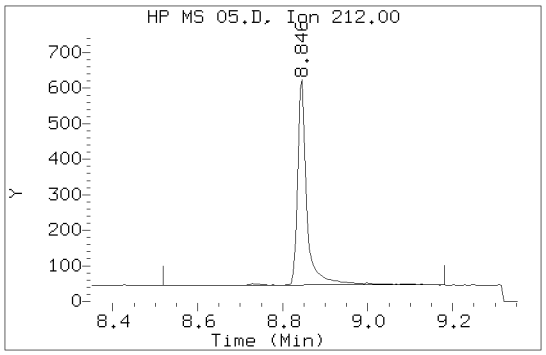
BEFORE

MASS
212
AREA
0
HEIGHT
0
19-Jun-2023
12:55
ALSHS
Server




AFTER

MASS
212
AREA
880
HEIGHT
578
20-Jun-2023
09:53
ALSHS
Se



Data File: \\nahstws005\Target\chem\SV6.i\230619.b\06.D Page 1
Report Date: 19-Jun-2023 16:21

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230619.b\06.D
Lab Smp Id: LCS1-195305 Client Smp ID: LCS1-195305
Inj Date : 19-JUN-2023 12:56
Operator : LG Inst ID: SV6.i
Smp Info : LCS1-195305
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230619.b\DXSIM.m
Meth Date : 19-Jun-2023 12:30 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 6 QC Sample: LCS
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 | CONCENTRATIONS ON-COLUMN ( NG) | FINAL ( ug/L) |
|---|---|---|---|---|---|---|---|
| * 20 1,4-Dichlorobenzene-d4 | 152 | 3.074 | 3.074 | (1.000) | 4438 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 4.164 | 4.164 | (1.000) | 14217 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.530 | 3.251 | (0.848) | 3344 | 0.07742 | 0.07742(M) |
| * 86 Acenaphthene-d10 | 164 | 5.825 | 5.827 | (1.000) | 8877 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 5.189 | 5.193 | (0.891) | 7922 | 0.08727 | 0.08727 |
| * 126 Phenanthrene-d10 | 188 | 7.264 | 7.261 | (1.000) | 16522 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 9.943 | 9.950 | (1.000) | 13087 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.846 | 8.848 | (0.890) | 8069 | 0.08357 | 0.08357(M) |
| * 198 Perylene-d12 | 264 | 11.844 | 11.846 | (1.000) | 8919 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 1.430 | 1.283 | (0.465) | 1166 | 0.07743 | 0.07743(M) |

QC Flag Legend

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

01195891

Data File: \\nahstws005\Target\chem\SV6.i\230619.b\06.D



Date : 19-JUN-2023 12:56

Client ID: LCS1-195305

Instrument: SV6.i

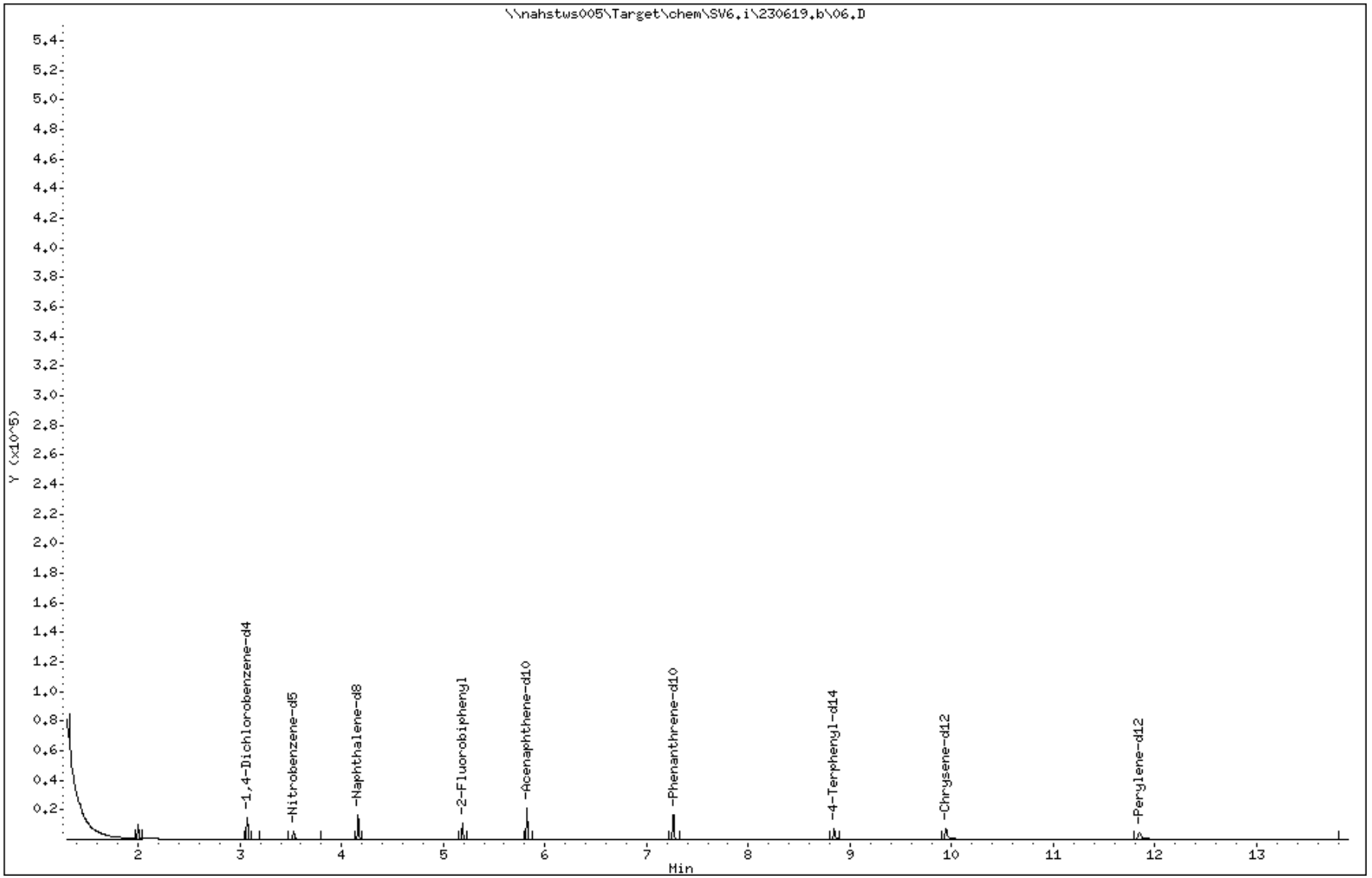
Sample Info: LCS1-195305

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



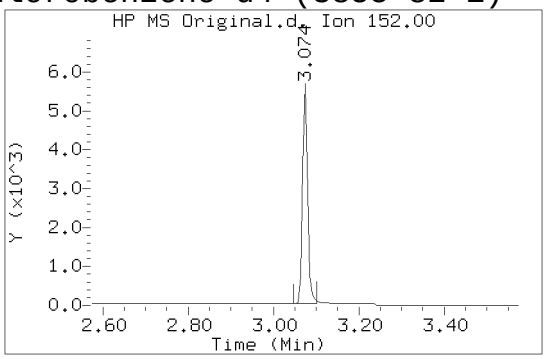
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\06.D
Inj Date : 19-JUN-2023 12:56
InstruID : SV6.i
LabSampID : LCS1-195305

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

Reason Code:

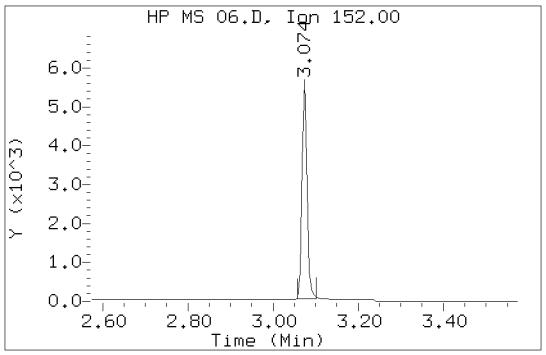
**BEFORE**

MASS
152
AREA
4489
HEIGHT
5653
19-Jun-2023
13:11
ALSHS
Server



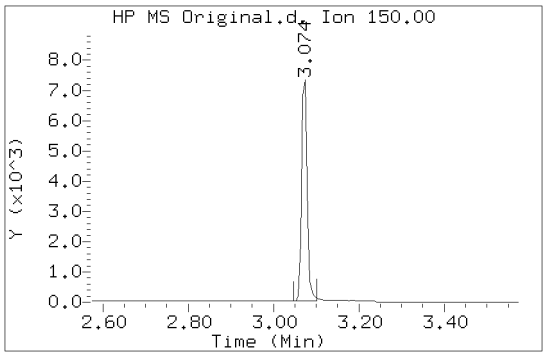

**AFTER**

MASS
152
AREA
4438
HEIGHT
5636
19-Jun-2023
16:21
ALSHS
Se



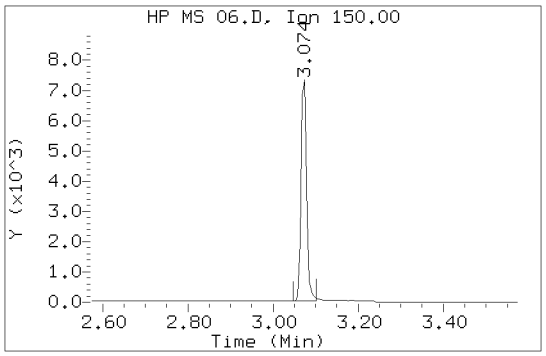

**BEFORE**

MASS
150
AREA
6467
HEIGHT
7300
19-Jun-2023
13:11
ALSHS
Server



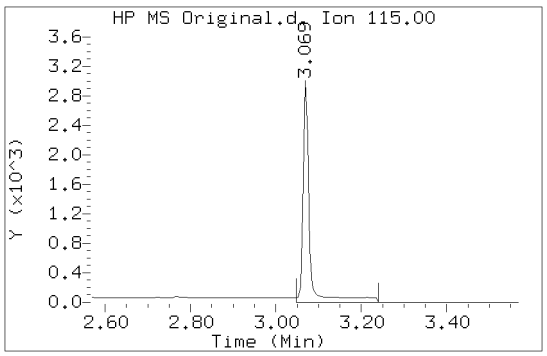

**AFTER**

MASS
150
AREA
6467
HEIGHT
7300
19-Jun-2023
16:21
ALSHS
Se



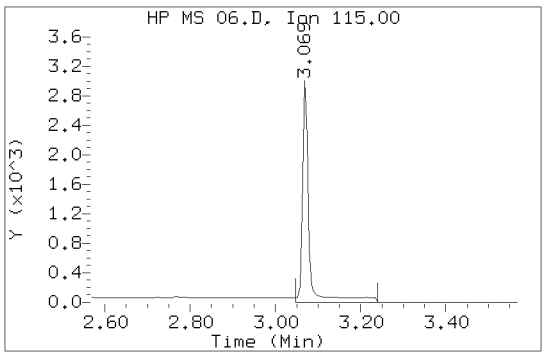

**BEFORE**

MASS
115
AREA
3154
HEIGHT
3007
19-Jun-2023
13:11
ALSHS
Server




**AFTER**

MASS
115
AREA
3154
HEIGHT
3007
19-Jun-2023
16:21
ALSHS
Se

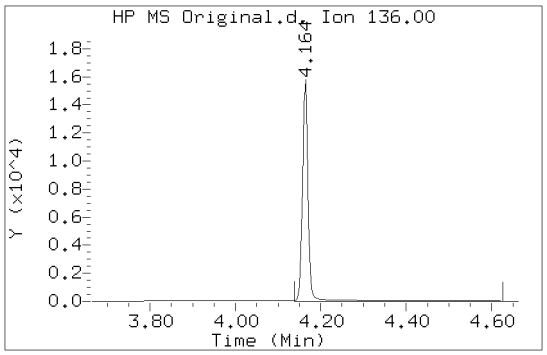



## Naphthalene-d8 (1146-65-2)

Reason Code:

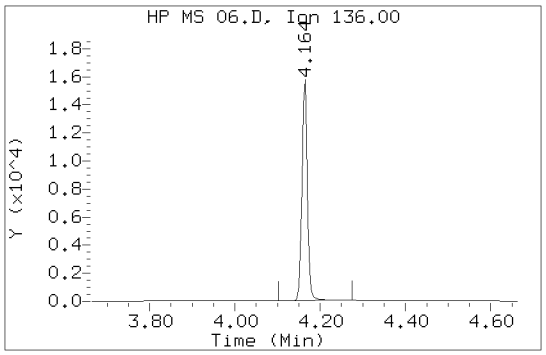
**BEFORE**

MASS
136
AREA
15945
HEIGHT
15796
19-Jun-2023
13:11
ALSHS
Server




**AFTER**

MASS
136
AREA
14217
HEIGHT
15738
19-Jun-2023
16:21
ALSHS
Se

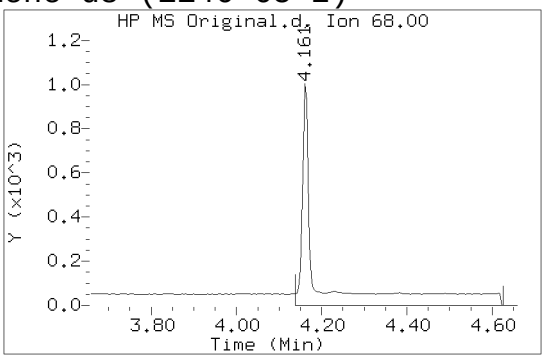


Data File : \\nahstws005\Target\chem\SV6.i\230619.b\06.D
Inj Date : 19-JUN-2023 12:56
InstruID : SV6.i
LabSampID : LCS1-195305

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

### BEFORE

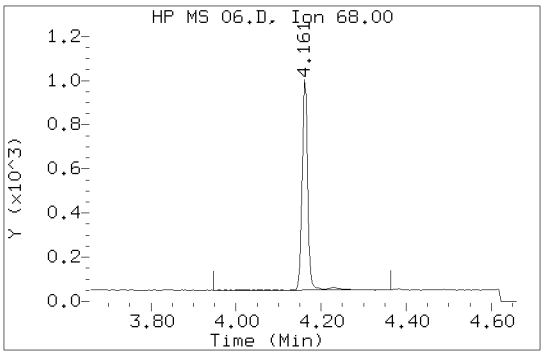
MASS
68
AREA
2391
HEIGHT
1004
19-Jun-2023
13:11
ALSHS
Server




Reason Code:

### AFTER

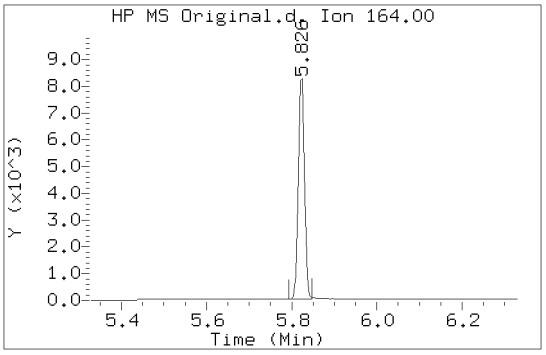
MASS
68
AREA
881
HEIGHT
952
19-Jun-2023
16:21
ALSHS
Se




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

### BEFORE

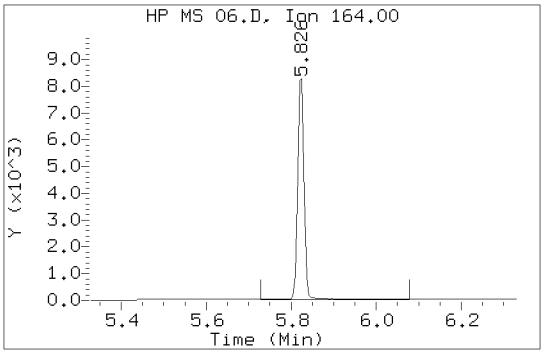
MASS
164
AREA
8316
HEIGHT
8232
19-Jun-2023
13:11
ALSHS
Server




Reason Code:

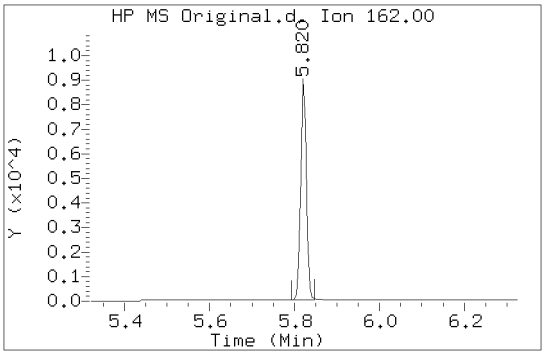
### AFTER

MASS
164
AREA
8877
HEIGHT
8254
19-Jun-2023
16:21
ALSHS
Se



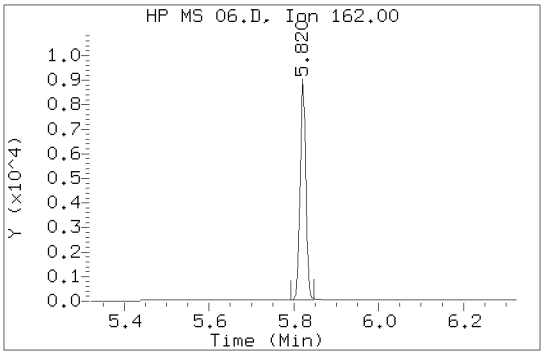

### BEFORE

MASS
162
AREA
8459
HEIGHT
9003
19-Jun-2023
13:11
ALSHS
Server



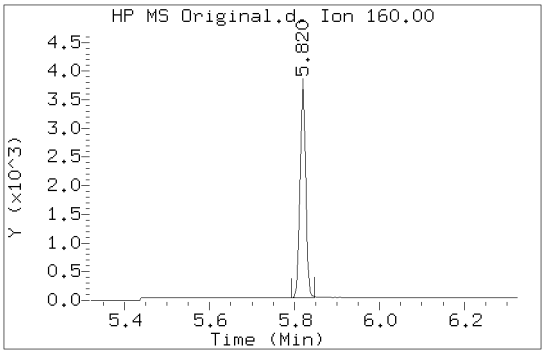

### AFTER

MASS
162
AREA
8459
HEIGHT
9003
19-Jun-2023
16:21
ALSHS
Se



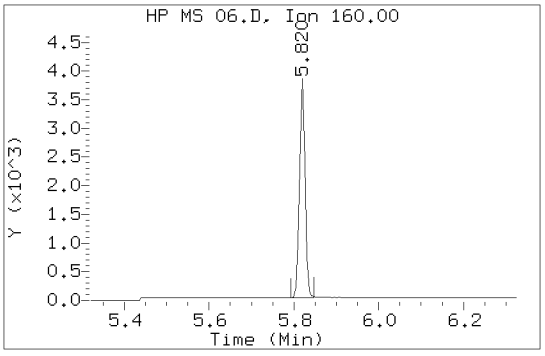

### BEFORE

MASS
160
AREA
3519
HEIGHT
3821
19-Jun-2023
13:11
ALSHS
Server




### AFTER

MASS
160
AREA
3519
HEIGHT
3821
19-Jun-2023
16:21
ALSHS
Se



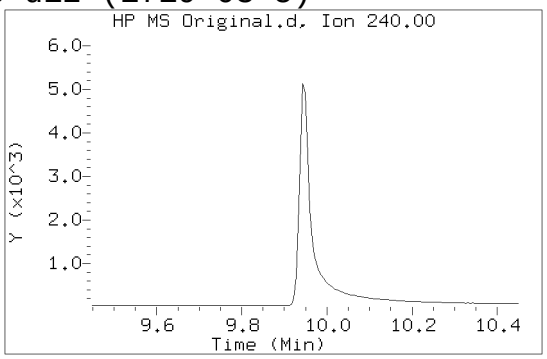
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\06.D
Inj Date : 19-JUN-2023 12:56
InstruID : SV6.i
LabSampID : LCS1-195305

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

Reason Code:

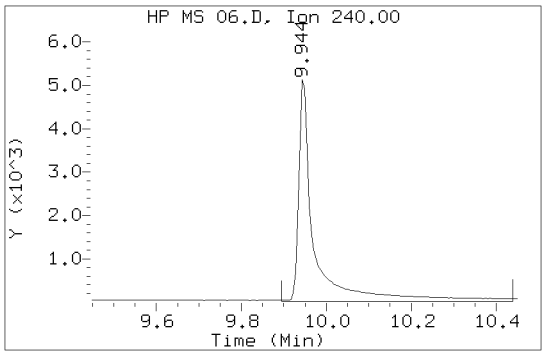
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
19-Jun-2023
13:11
ALSHS
Server



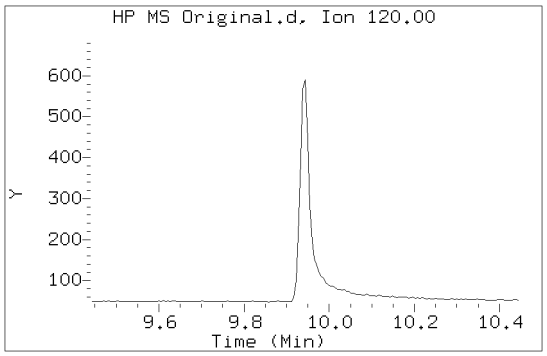

**AFTER**

MASS
240
AREA
13087
HEIGHT
5108
19-Jun-2023
16:21
ALSHS
Se



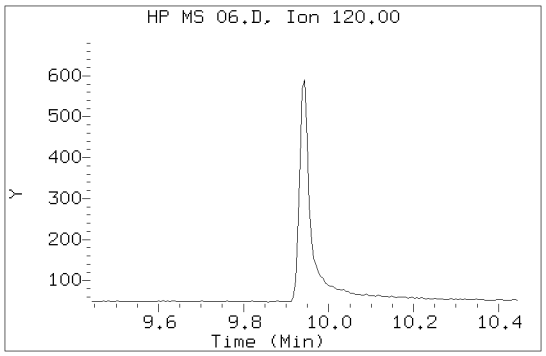

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
19-Jun-2023
13:11
ALSHS
Server



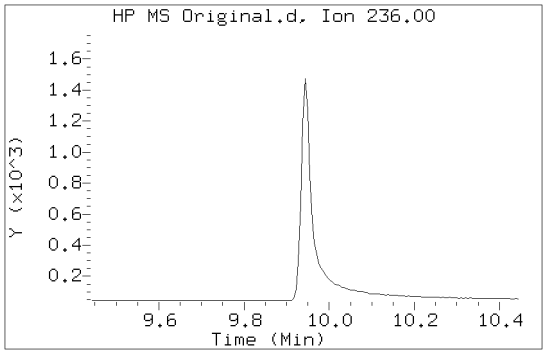

**AFTER**

MASS
120
AREA
1149
HEIGHT
539
19-Jun-2023
16:21
ALSHS
Se



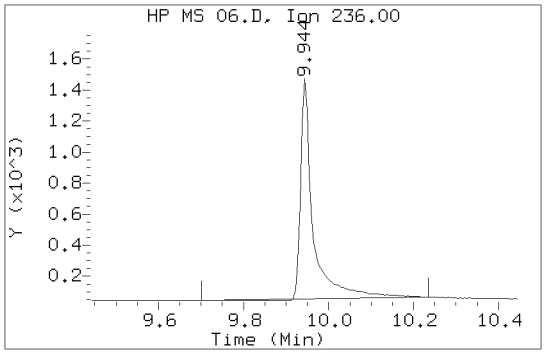

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
19-Jun-2023
13:11
ALSHS
Server




**AFTER**

MASS
236
AREA
2811
HEIGHT
1417
19-Jun-2023
16:21
ALSHS
Se

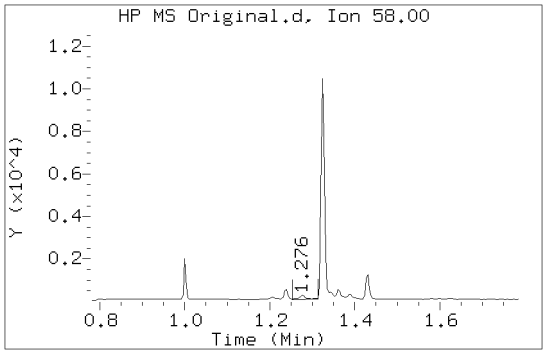



## 1,4-Dioxane ()

Reason Code:

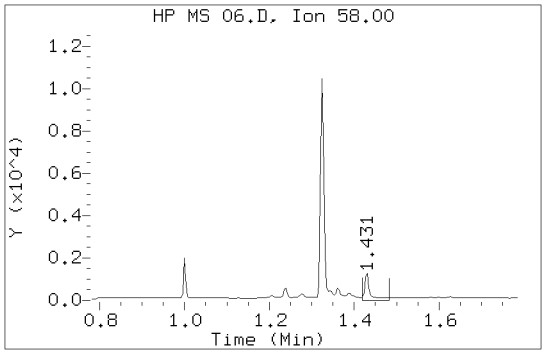
**BEFORE**

MASS
58
AREA
257
HEIGHT
204
19-Jun-2023
13:11
ALSHS
Server




**AFTER**

MASS
58
AREA
1166
HEIGHT
1273
19-Jun-2023
16:21
ALSHS
Se



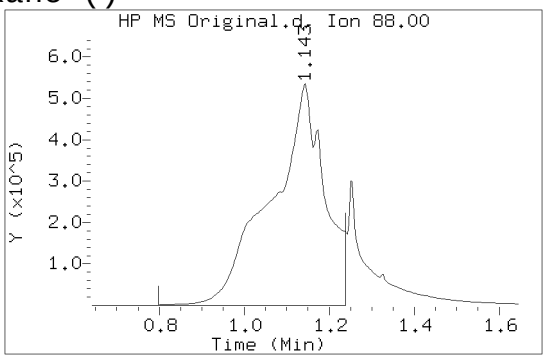
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\06.D
Inj Date : 19-JUN-2023 12:56
InstruID : SV6.i
LabSampID : LCS1-195305

## 1,4-Dioxane ()

Reason Code:

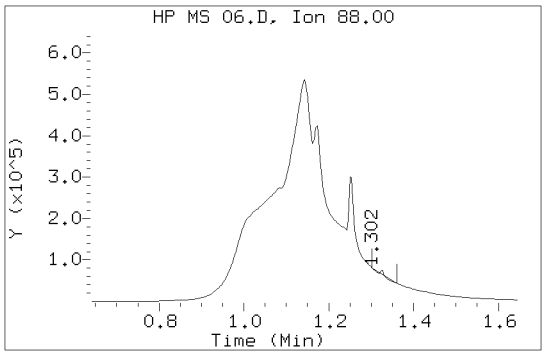
**BEFORE**

MASS
88
AREA
4653900
HEIGHT
534805
19-Jun-2023
13:11
ALSHS
Server




**AFTER**

MASS
88
AREA
2008
HEIGHT
0
19-Jun-2023
16:21
ALSHS
Se

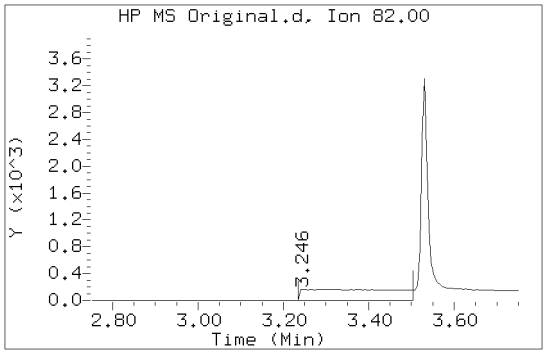



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

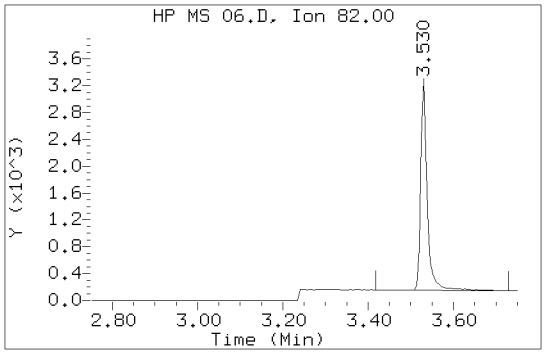
**BEFORE**

MASS
82
AREA
2526
HEIGHT
164
19-Jun-2023
13:11
ALSHS
Server



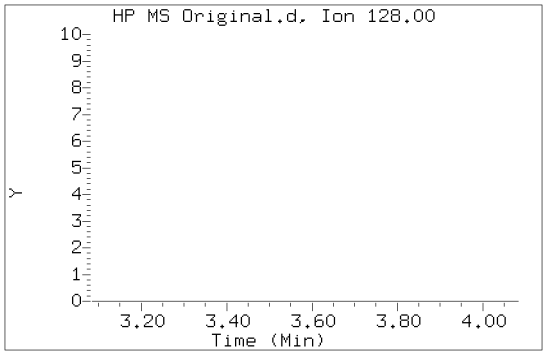

**AFTER**

MASS
82
AREA
3344
HEIGHT
3153
19-Jun-2023
16:21
ALSHS
Se



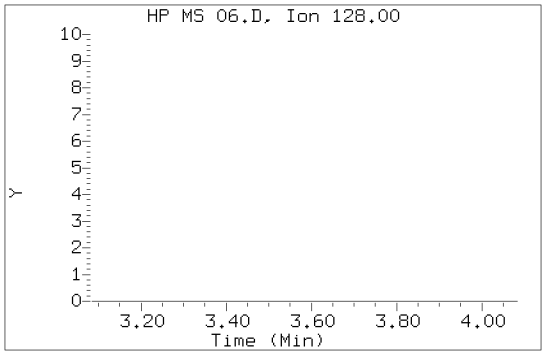

**BEFORE**

MASS
128
AREA
0
HEIGHT
0
19-Jun-2023
13:11
ALSHS
Server



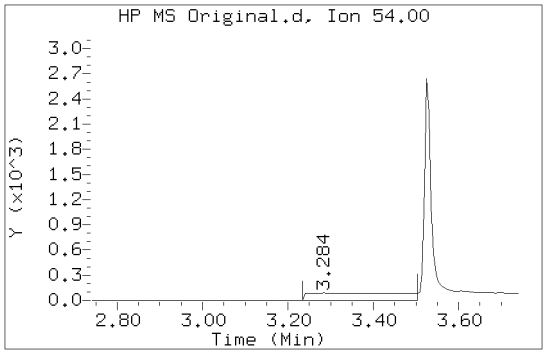

**AFTER**

MASS
128
AREA
0
HEIGHT
0
19-Jun-2023
16:21
ALSHS
Se



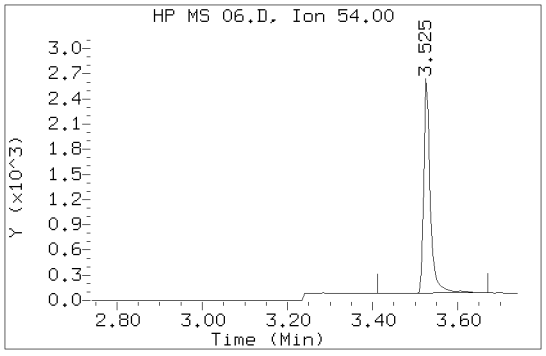

**BEFORE**

MASS
54
AREA
1359
HEIGHT
89
19-Jun-2023
13:11
ALSHS
Server




**AFTER**

MASS
54
AREA
2757
HEIGHT
2554
19-Jun-2023
16:21
ALSHS
Se

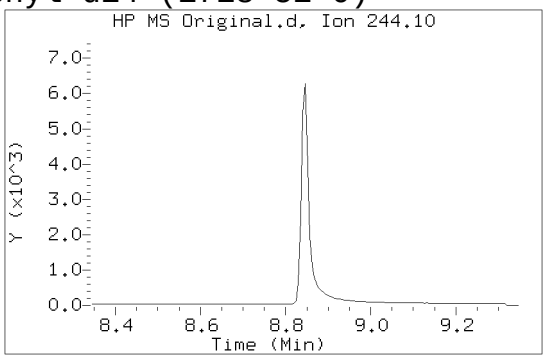


Data File : \\nahstws005\Target\chem\SV6.i\230619.b\06.D
Inj Date : 19-JUN-2023 12:56
InstruID : SV6.i
LabSampID : LCS1-195305

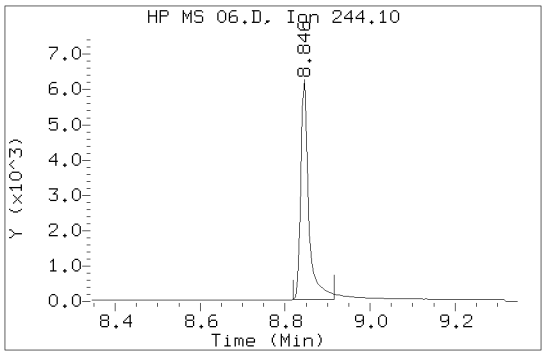
4-Terphenyl-d14 (1718-51-0)

Reason Code:

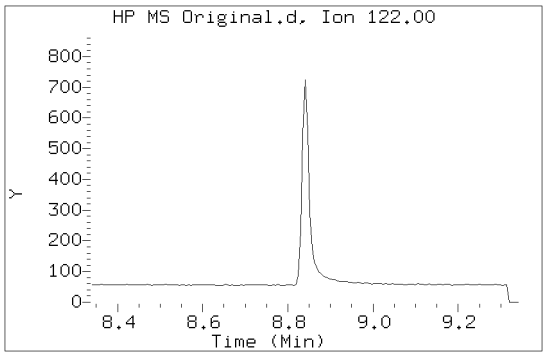
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
19-Jun-2023
13:11
ALSHS
Server



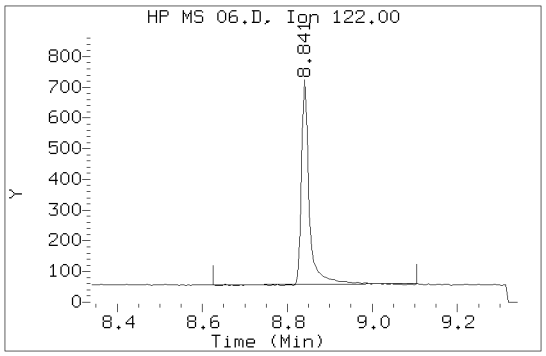

AFTER
MASS
244.1
AREA
8069
HEIGHT
6228
19-Jun-2023
16:21
ALSHS
Se



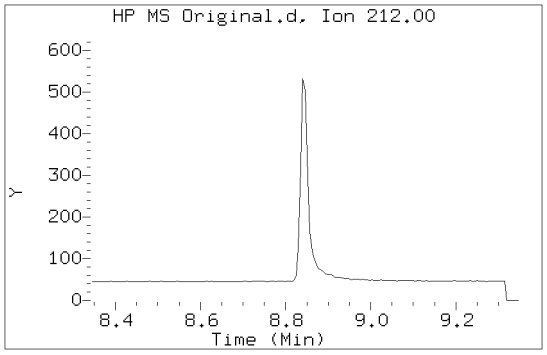

BEFORE
MASS
122
AREA
0
HEIGHT
0
19-Jun-2023
13:11
ALSHS
Server



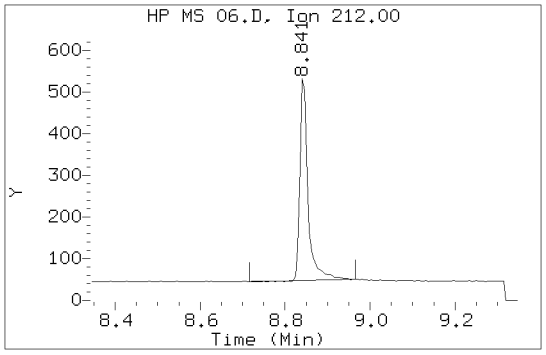

AFTER
MASS
122
AREA
824
HEIGHT
666
19-Jun-2023
16:21
ALSHS
Se




BEFORE
MASS
212
AREA
0
HEIGHT
0
19-Jun-2023
13:11
ALSHS
Server




AFTER
MASS
212
AREA
638
HEIGHT
484
19-Jun-2023
16:21
ALSHS
Se



Data File: \\NAHSTWS005\Target\chem\SV6.i\230619.b\07.D Page 1
Report Date: 23-Jun-2023 17:51

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230619.b\07.D
Lab Smp Id: LCSD1-195305 Client Smp ID: LCSD1-195305
Inj Date : 19-JUN-2023 13:14
Operator : LG Inst ID: SV6.i
Smp Info : LCSD1-195305
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230619.b\DXSIM.m
Meth Date : 20-Jun-2023 09:42 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 7 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.074 | 3.074 | (1.000) | 3870 | 0.10000 | (a) |
| * 45 Naphthalene-d8 | 136 | 4.164 | 4.164 | (1.000) | 12828 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.530 | 3.530 | (0.848) | 3074 | 0.07887 | 0.07887(M) |
| * 86 Acenaphthene-d10 | 164 | 5.825 | 5.825 | (1.000) | 8131 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 5.189 | 5.196 | (0.891) | 7445 | 0.08954 | 0.08954 |
| * 126 Phenanthrene-d10 | 188 | 7.264 | 7.270 | (1.000) | 14950 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 9.943 | 9.954 | (1.000) | 12394 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.846 | 8.851 | (0.890) | 8017 | 0.08768 | 0.08768(M) |
| * 198 Perylene-d12 | 264 | 11.844 | 11.855 | (1.000) | 8799 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 1.423 | 1.434 | (0.463) | 1041 | 0.07928 | 0.07928(M) |

QC Flag Legend

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

01195898

Data File: \\NAHSTWS005\Target\chem\SV6.i\230619.b\07.D



Date : 19-JUN-2023 13:14

Client ID: LCSD1-195305

Instrument: SV6.i

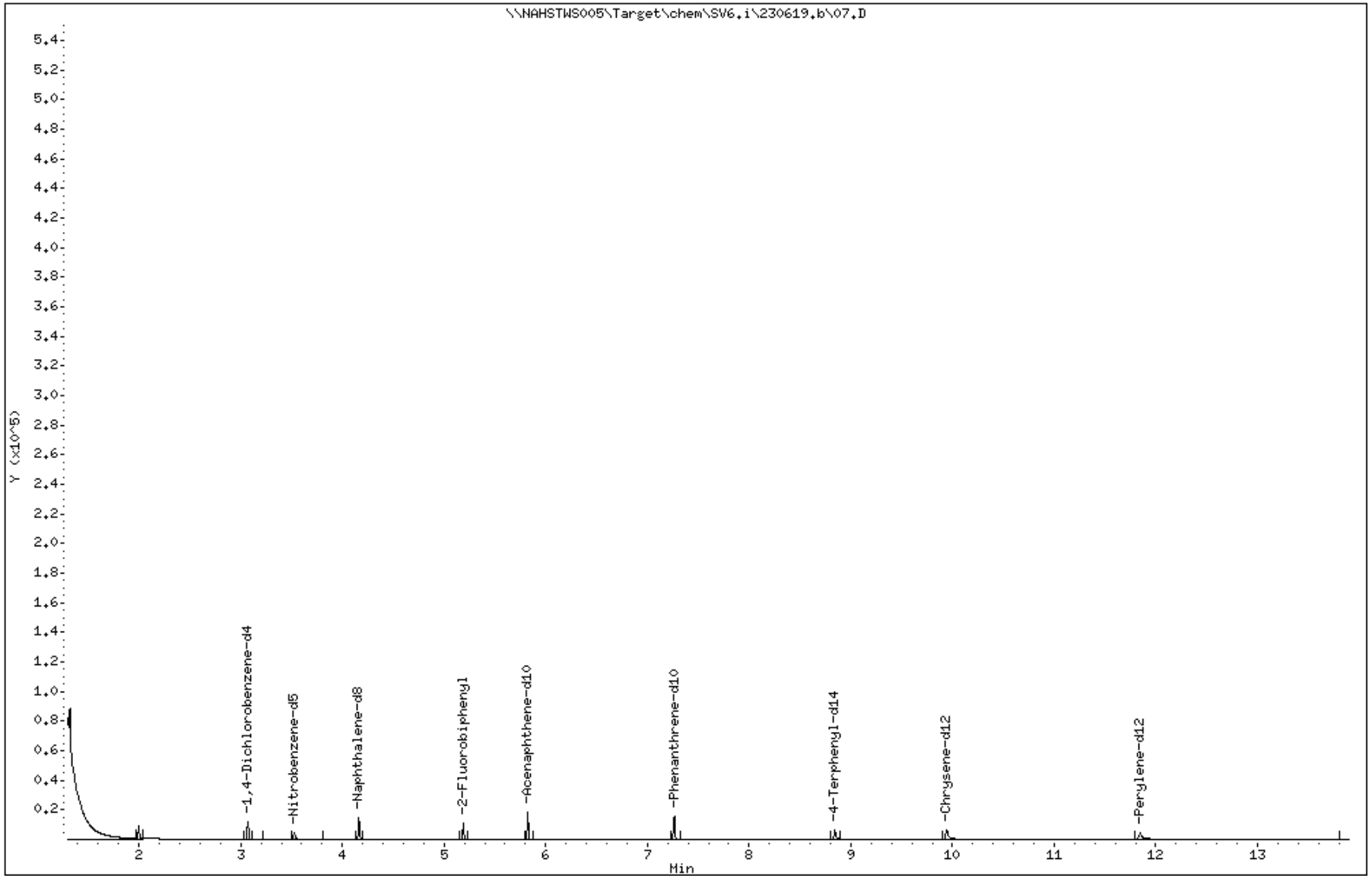
Sample Info: LCSD1-195305

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



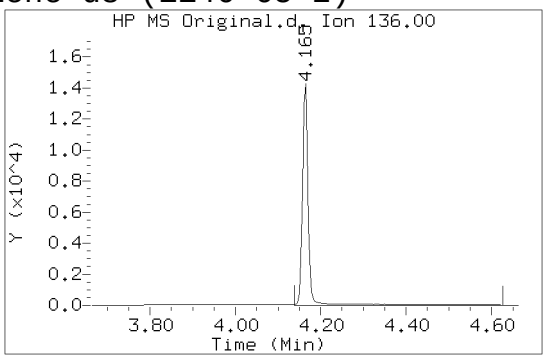
Data File : \\NAHSTWS005\Target\chem\SV6.i\230619.b\07.D
Inj Date : 19-JUN-2023 13:14
InstruID : SV6.i
LabSampID : LCSD1-195305

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

Reason Code:

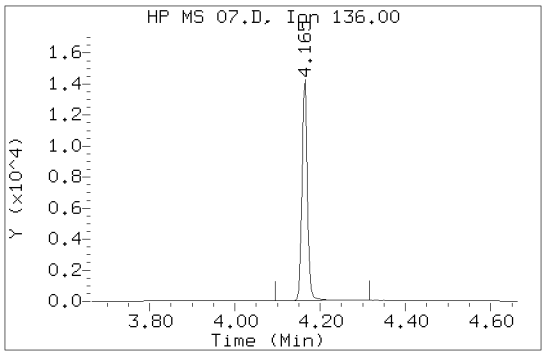
BEFORE

MASS
136
AREA
14469
HEIGHT
14277
19-Jun-2023
13:28
ALSHS
Server



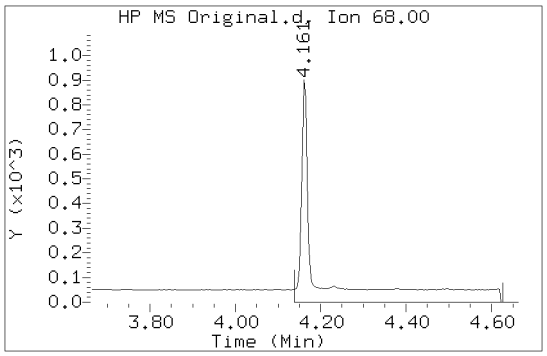

AFTER

MASS
136
AREA
12828
HEIGHT
14223
23-Jun-2023
17:51
ALSHS
Ser



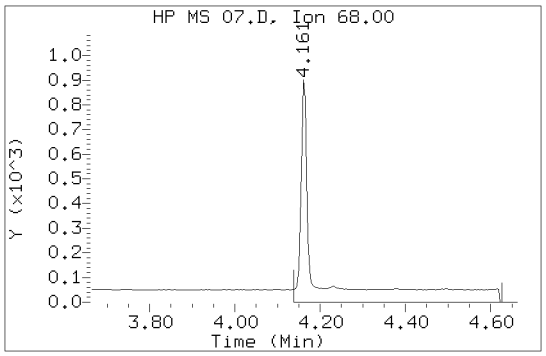

BEFORE

MASS
68
AREA
2278
HEIGHT
901
19-Jun-2023
13:28
ALSHS
Server




AFTER

MASS
68
AREA
2278
HEIGHT
901
23-Jun-2023
17:51
ALSHS
Ser

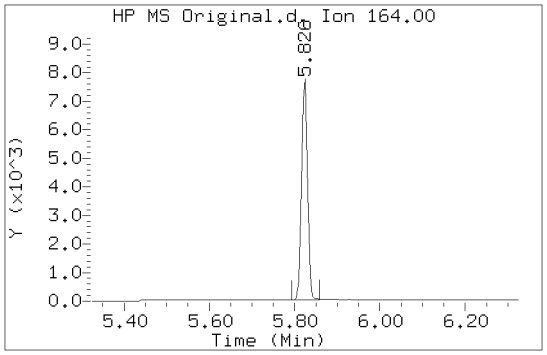



## Acenaphthene-d10 (15067-26-2)

Reason Code:

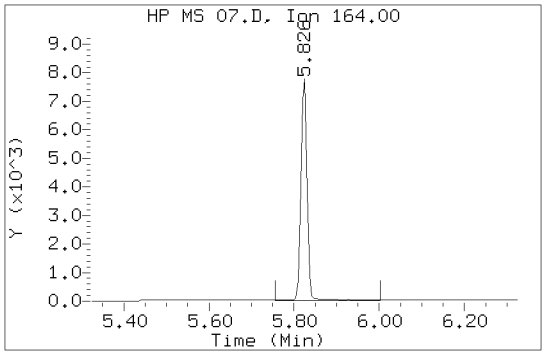
BEFORE

MASS
164
AREA
7505
HEIGHT
7730
19-Jun-2023
13:28
ALSHS
Server



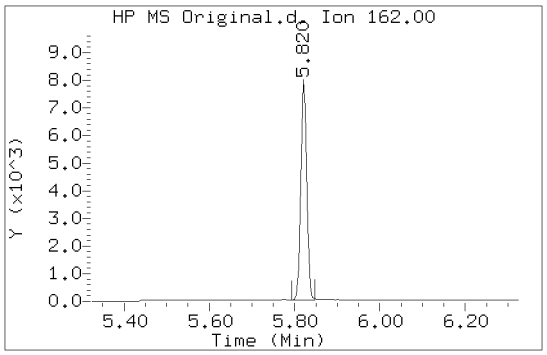

AFTER

MASS
164
AREA
8131
HEIGHT
7768
23-Jun-2023
17:51
ALSHS
Ser



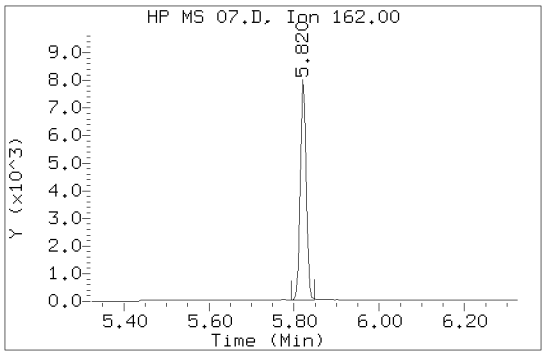

BEFORE

MASS
162
AREA
7654
HEIGHT
7973
19-Jun-2023
13:28
ALSHS
Server




AFTER

MASS
162
AREA
7654
HEIGHT
7973
23-Jun-2023
17:51
ALSHS
Ser



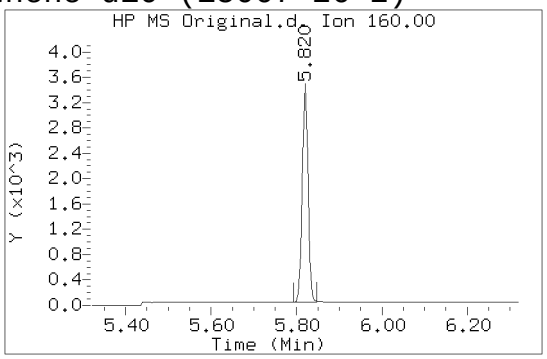
Data File : \\NAHSTWS005\Target\chem\SV6.i\230619.b\07.D
Inj Date : 19-JUN-2023 13:14
InstruID : SV6.i
LabSampID : LCSD1-195305

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

Reason Code:

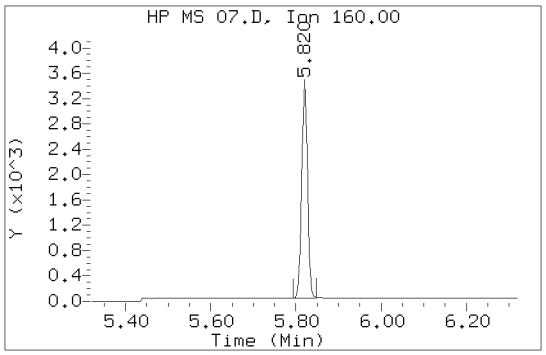
**BEFORE**

MASS
160
AREA
3158
HEIGHT
3450
19-Jun-2023
13:28
ALSHS
Server




**AFTER**

MASS
160
AREA
3158
HEIGHT
3450
23-Jun-2023
17:51
ALSHS
Ser

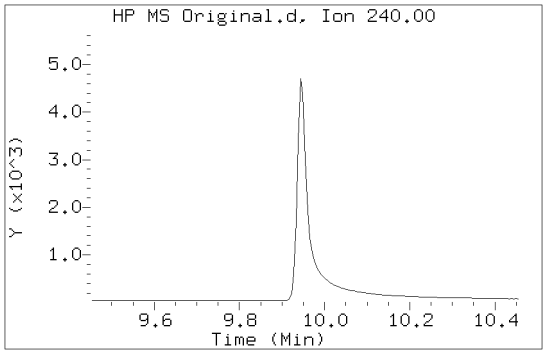



## Chrysene-d12 (1719-03-5)

Reason Code:

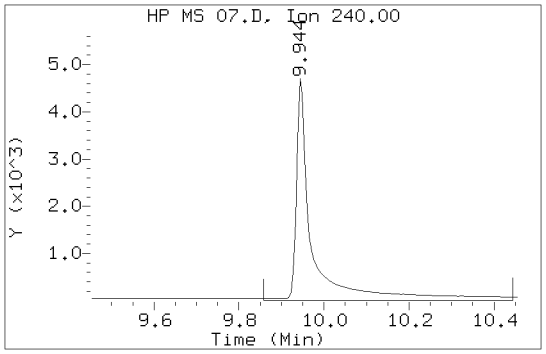
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
19-Jun-2023
13:28
ALSHS
Server



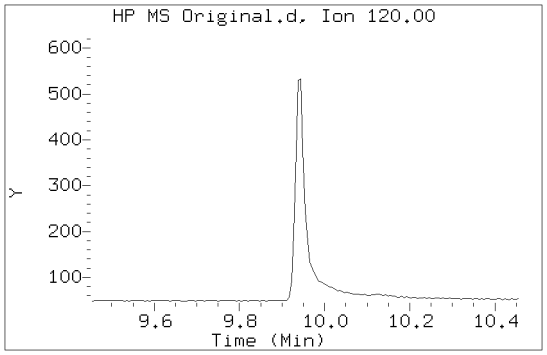

**AFTER**

MASS
240
AREA
12394
HEIGHT
4694
23-Jun-2023
17:51
ALSHS
Ser



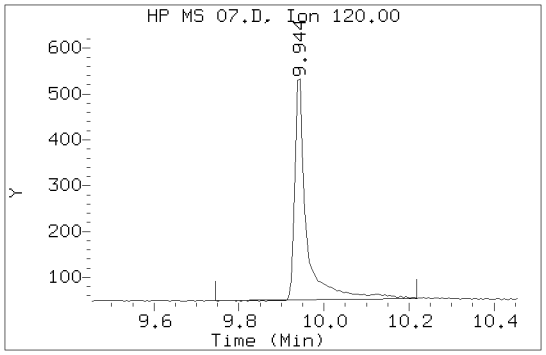

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
19-Jun-2023
13:28
ALSHS
Server



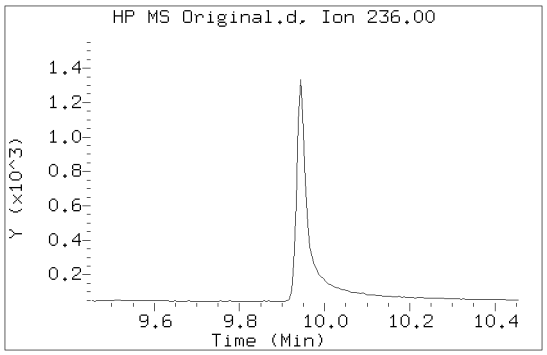

**AFTER**

MASS
120
AREA
937
HEIGHT
481
23-Jun-2023
17:51
ALSHS
Ser



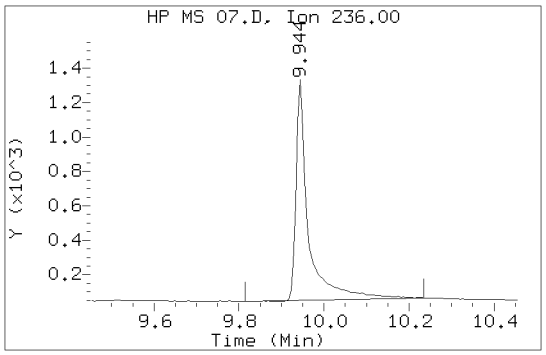

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
19-Jun-2023
13:28
ALSHS
Server




**AFTER**

MASS
236
AREA
2580
HEIGHT
1281
23-Jun-2023
17:51
ALSHS
Ser



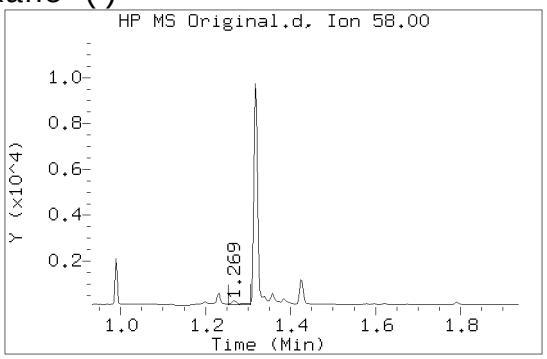
Data File : \\NAHSTWS005\Target\chem\SV6.i\230619.b\07.D
Inj Date : 19-JUN-2023 13:14
InstruID : SV6.i
LabSampID : LCSD1-195305

## 1,4-Dioxane ()

Reason Code:

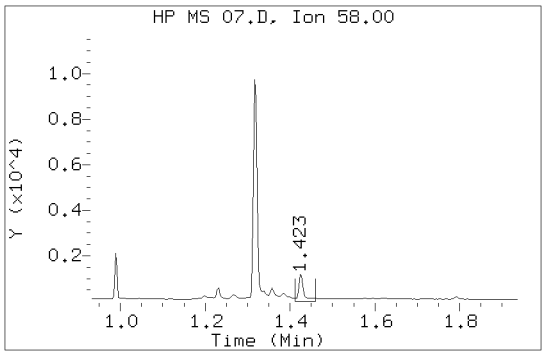
BEFORE

MASS
58
AREA
237
HEIGHT
175
19-Jun-2023
13:28
ALSHS
Server



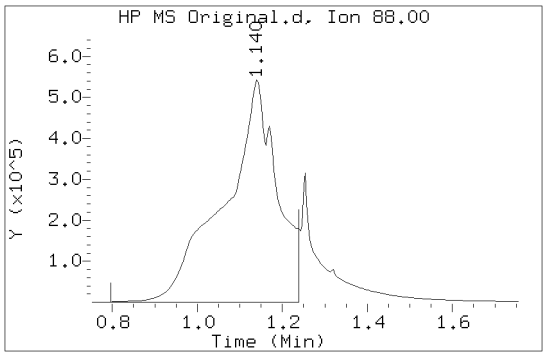

AFTER

MASS
58
AREA
1041
HEIGHT
1189
23-Jun-2023
17:51
ALSHS
Ser



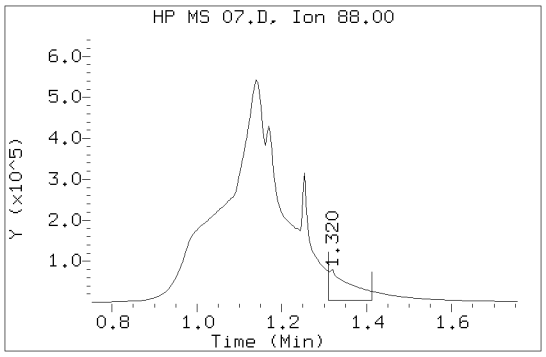

BEFORE

MASS
88
AREA
4666329
HEIGHT
542012
19-Jun-2023
13:28
ALSHS
Server




AFTER

MASS
88
AREA
270665
HEIGHT
74266
23-Jun-2023
17:51
ALSHS
Ser

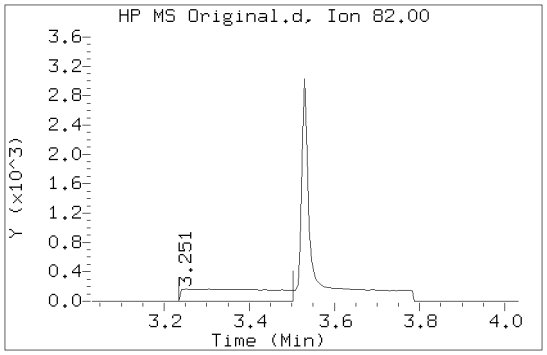



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

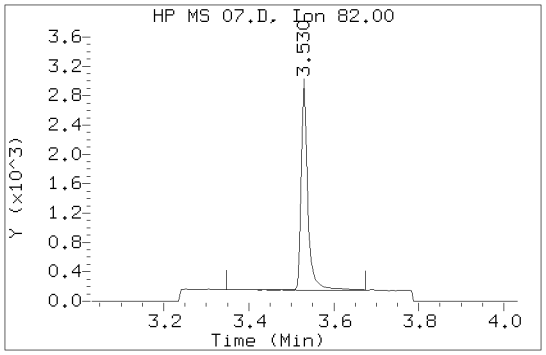
BEFORE

MASS
82
AREA
2518
HEIGHT
167
19-Jun-2023
13:28
ALSHS
Server



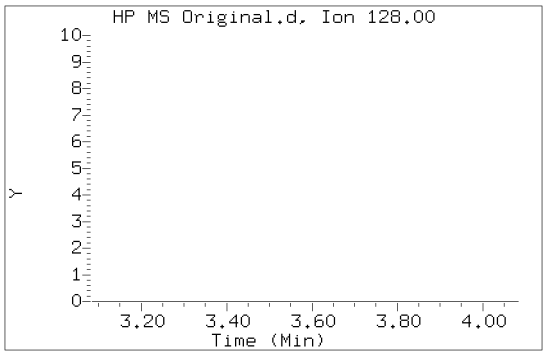

AFTER

MASS
82
AREA
3074
HEIGHT
2875
23-Jun-2023
17:51
ALSHS
Ser



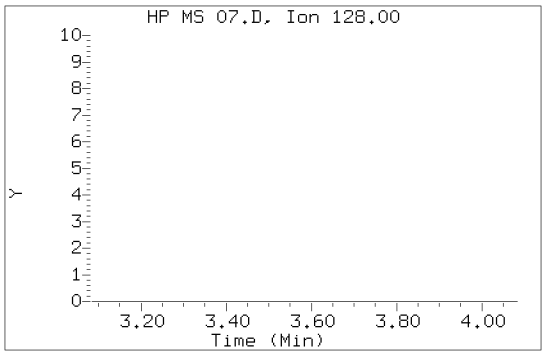

BEFORE

MASS
128
AREA
0
HEIGHT
0
19-Jun-2023
13:28
ALSHS
Server




AFTER

MASS
128
AREA
0
HEIGHT
0
23-Jun-2023
17:51
ALSHS
Ser



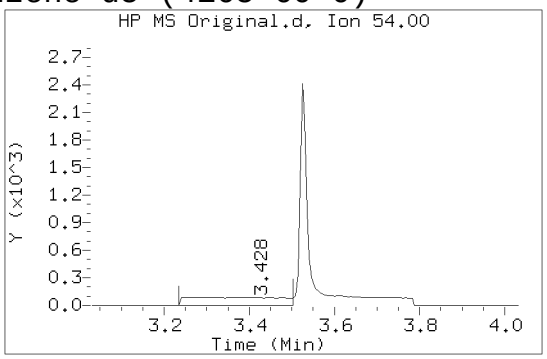
Data File : \\NAHSTWS005\Target\chem\SV6.i\230619.b\07.D
Inj Date : 19-JUN-2023 13:14
InstruID : SV6.i
LabSampID : LCSD1-195305

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

Reason Code:

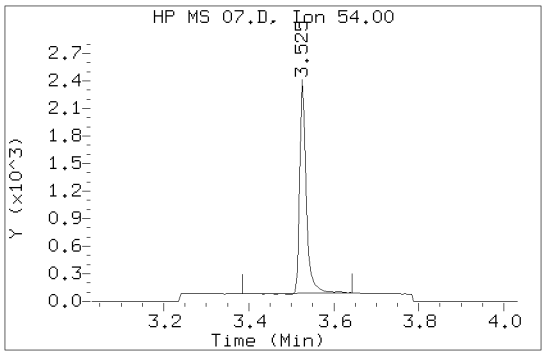
**BEFORE**

MASS
54
AREA
1315
HEIGHT
86
19-Jun-2023
13:28
ALSHS
Server




**AFTER**

MASS
54
AREA
2517
HEIGHT
2325
23-Jun-2023
17:51
ALSHS
Ser

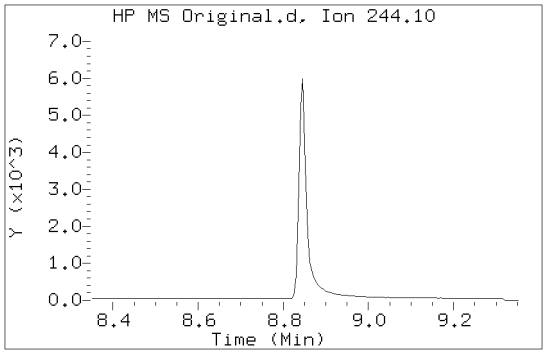



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

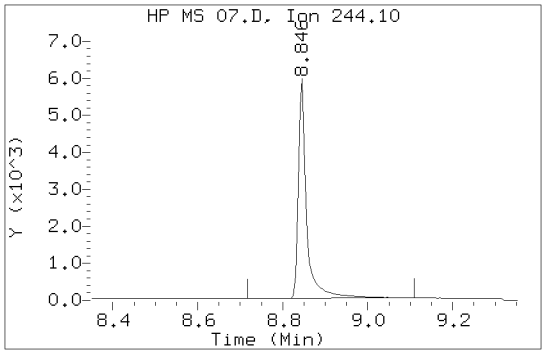
**BEFORE**

MASS
244.1
AREA
0
HEIGHT
0
19-Jun-2023
13:28
ALSHS
Server



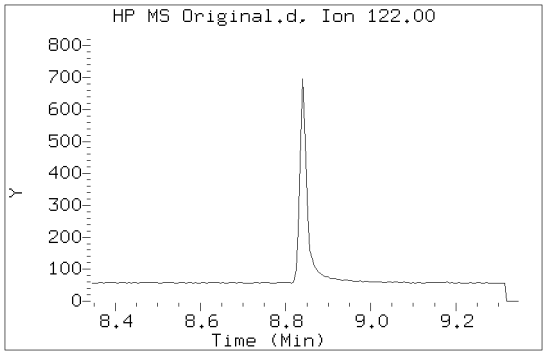

**AFTER**

MASS
244.1
AREA
8017
HEIGHT
5939
23-Jun-2023
17:51
ALSHS
Ser



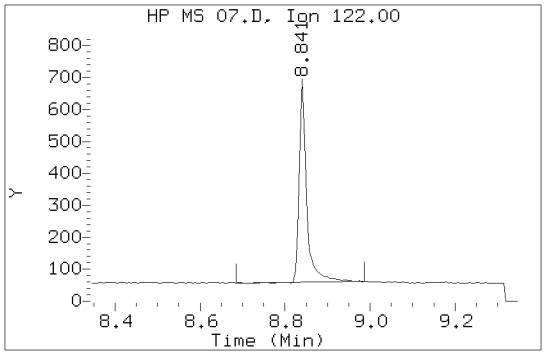

**BEFORE**

MASS
122
AREA
0
HEIGHT
0
19-Jun-2023
13:28
ALSHS
Server



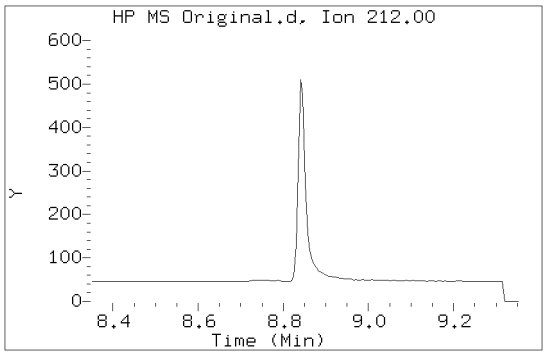

**AFTER**

MASS
122
AREA
761
HEIGHT
636
23-Jun-2023
17:51
ALSHS
Ser



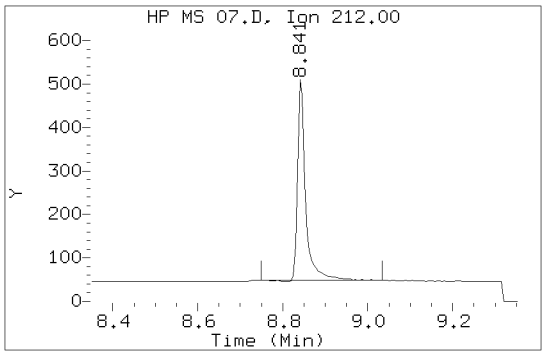

**BEFORE**

MASS
212
AREA
0
HEIGHT
0
19-Jun-2023
13:28
ALSHS
Server




**AFTER**

MASS
212
AREA
596
HEIGHT
461
23-Jun-2023
17:51
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230619.b\14.D Page 1
Report Date: 23-Jun-2023 17:51

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230619.b\14.D
Lab Smp Id: HS23060999-02 Client Smp ID: HS23060999-02
Inj Date : 19-JUN-2023 15:20
Operator : LG Inst ID: SV6.i
Smp Info : HS23060999-02
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230619.b\DXSIM.m
Meth Date : 20-Jun-2023 09:42 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.074 | 3.074 | (1.000) | 4475 | 0.10000 | (a) |
| * 45 Naphthalene-d8 | 136 | 4.164 | 4.164 | (1.000) | 14145 | 0.10000 | |
| $ 33 Nitrobenzene-d5 | 82 | 3.530 | 3.530 | (0.848) | 3293 | 0.07662 | 0.07662(M) |
| * 86 Acenaphthene-d10 | 164 | 5.825 | 5.825 | (1.000) | 8320 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 5.189 | 5.196 | (0.891) | 7656 | 0.08999 | 0.08999(M) |
| * 126 Phenanthrene-d10 | 188 | 7.264 | 7.270 | (1.000) | 16391 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 9.943 | 9.954 | (1.000) | 15686 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.846 | 8.851 | (0.890) | 10377 | 0.08967 | 0.08967(M) |
| * 198 Perylene-d12 | 264 | 11.844 | 11.855 | (1.000) | 10860 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.438 | 1.434 | (0.468) | 1467 | 0.09662 | 0.09662(M) |

QC Flag Legend

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

01195904

Data File: \\NAHSTWS005\Target\chem\SV6.i\230619.b\14.D



Date : 19-JUN-2023 15:20

Client ID: HS23060999-02

Instrument: SV6.i

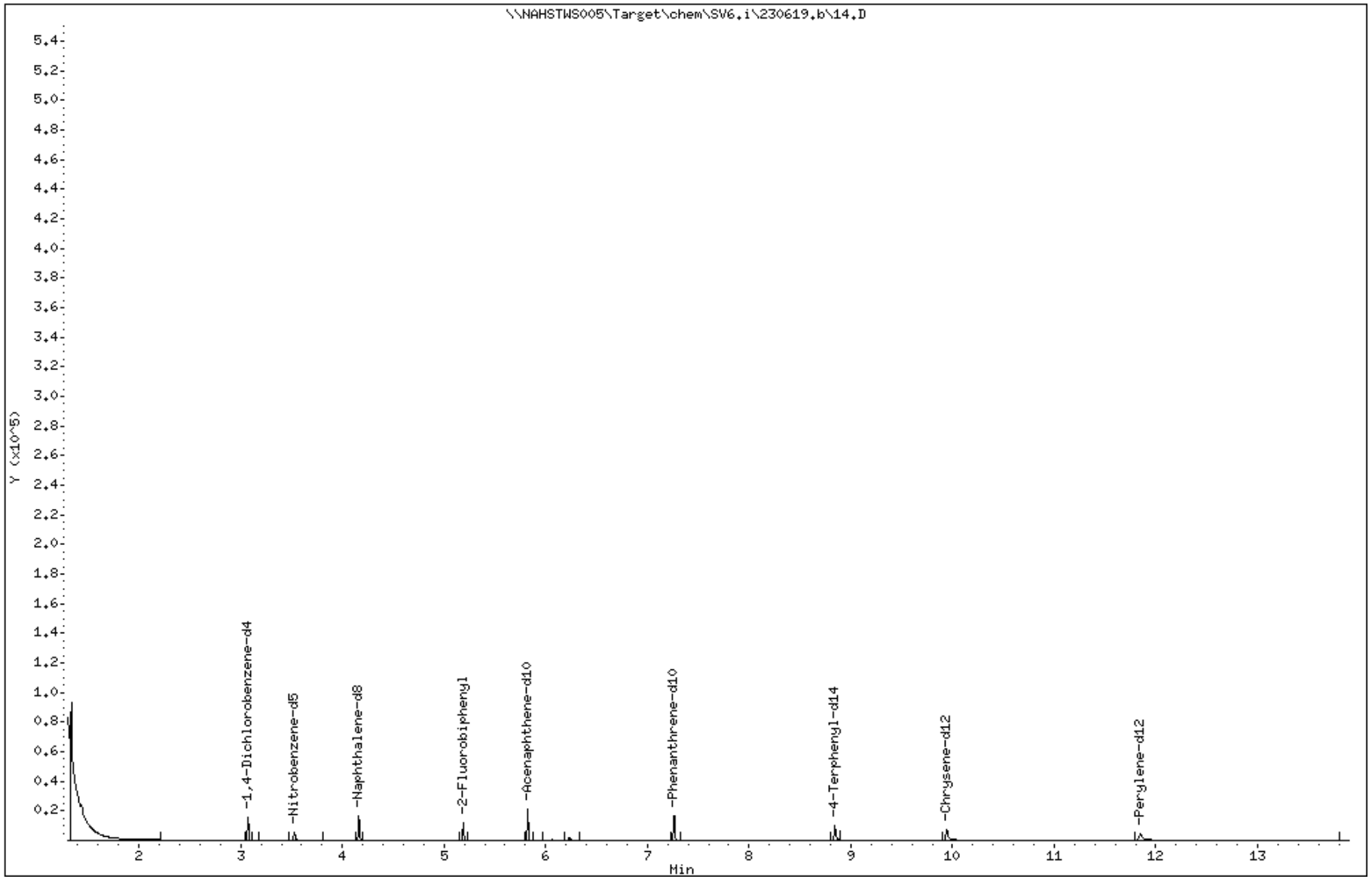
Sample Info: HS23060999-02

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\230619.b\14.D



Date : 19-JUN-2023 15:20

Client ID: HS23060999-02

Instrument: SV6.i

Sample Info: HS23060999-02

Purge Volume: 1000.0

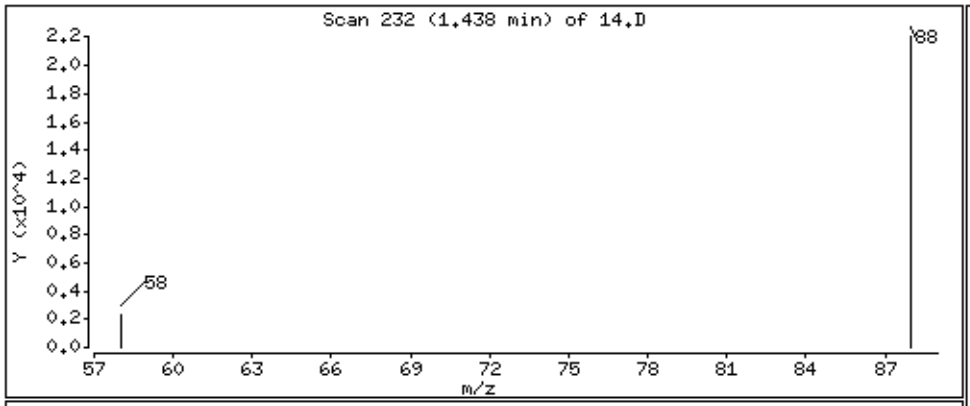
Operator: LG

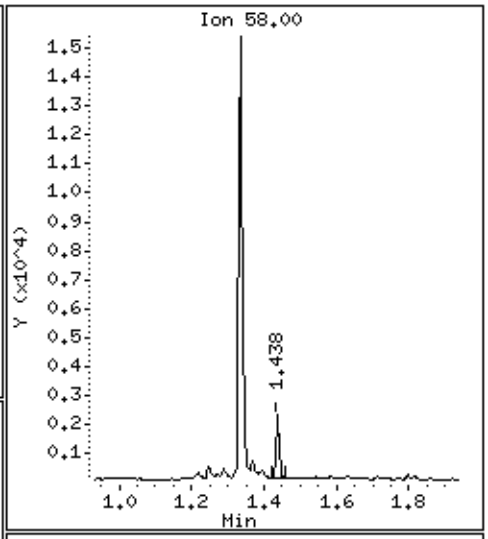
Column phase: RTX-5SIL MS

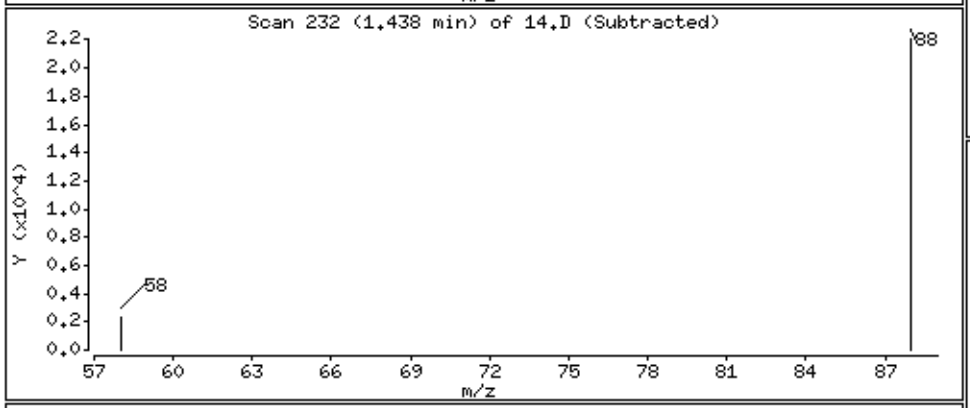
Column diameter: 0.28

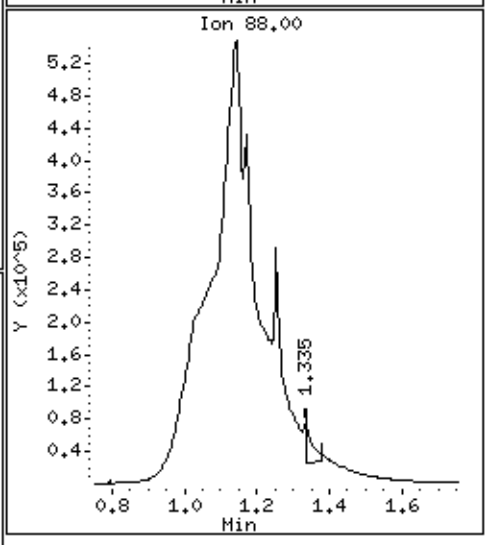
1 1,4-Dioxane

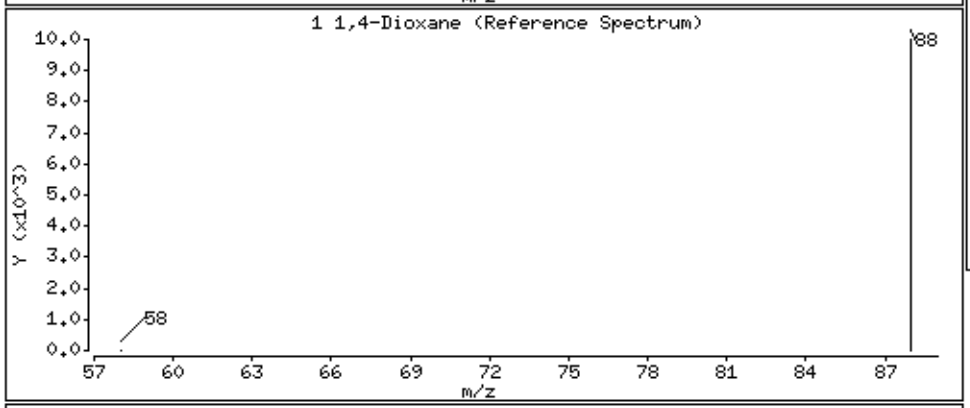
Concentration: 0.09662 ug/L

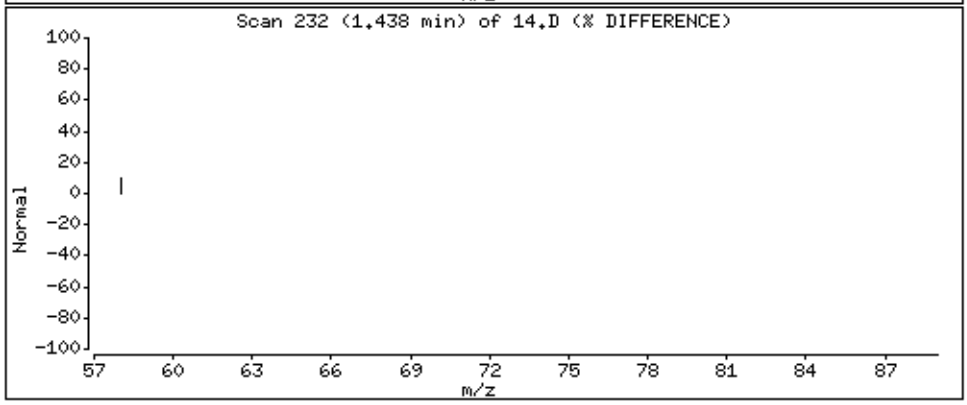


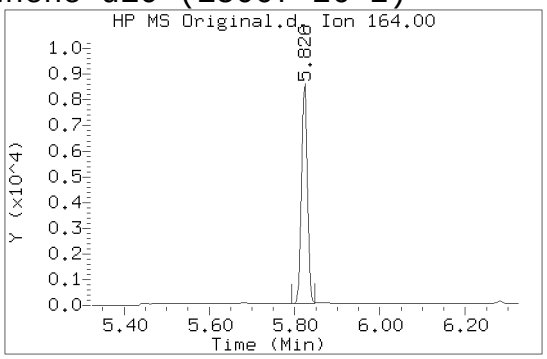
Data File : \\NAHSTWS005\Target\chem\SV6.i\230619.b\14.D
Inj Date : 19-JUN-2023 15:20
InstruID : SV6.i
LabSampID : HS23060999-02

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

Reason Code:

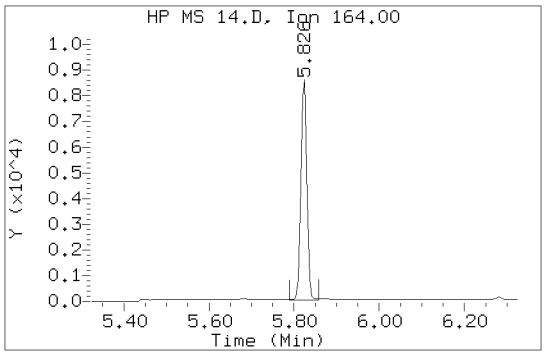
**BEFORE**

MASS
164
AREA
8240
HEIGHT
8559
19-Jun-2023
15:35
ALSHS
Server



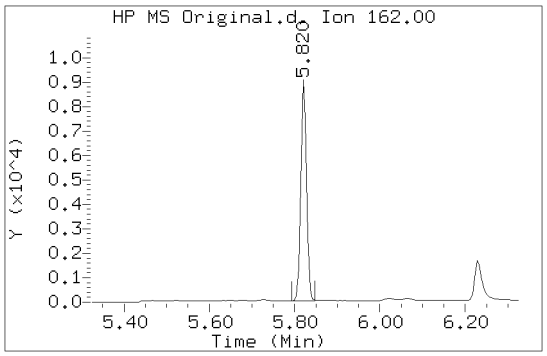

**AFTER**

MASS
164
AREA
8320
HEIGHT
8573
23-Jun-2023
17:51
ALSHS
Ser



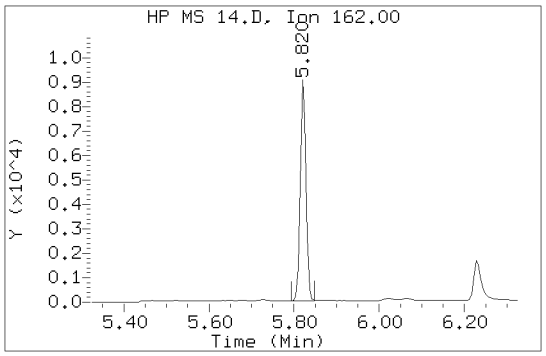

**BEFORE**

MASS
162
AREA
8378
HEIGHT
9031
19-Jun-2023
15:35
ALSHS
Server



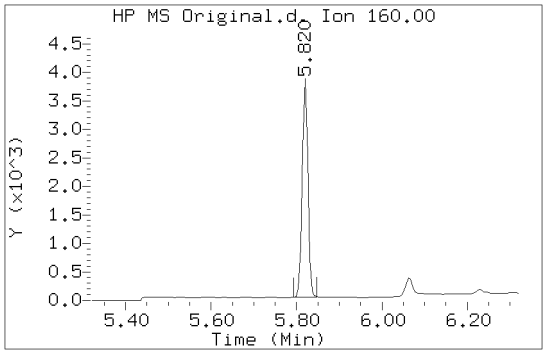

**AFTER**

MASS
162
AREA
8378
HEIGHT
9031
23-Jun-2023
17:51
ALSHS
Ser



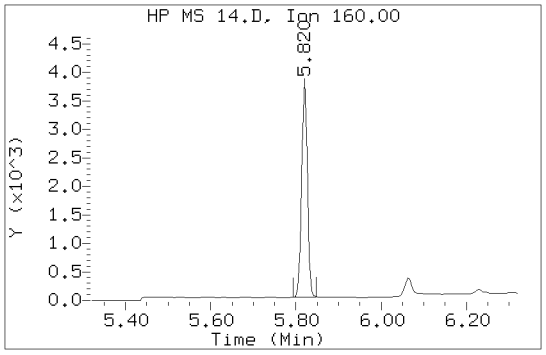

**BEFORE**

MASS
160
AREA
3479
HEIGHT
3837
19-Jun-2023
15:35
ALSHS
Server




**AFTER**

MASS
160
AREA
3479
HEIGHT
3837
23-Jun-2023
17:51
ALSHS
Ser

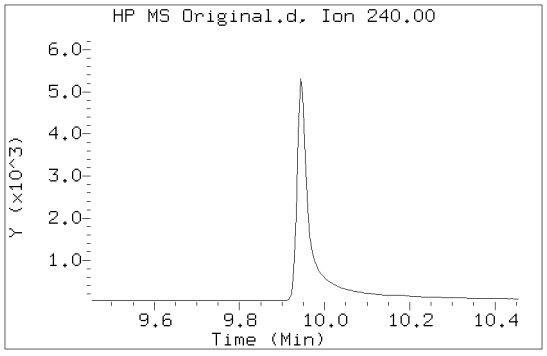



## Chrysene-d12 (1719-03-5)

Reason Code:

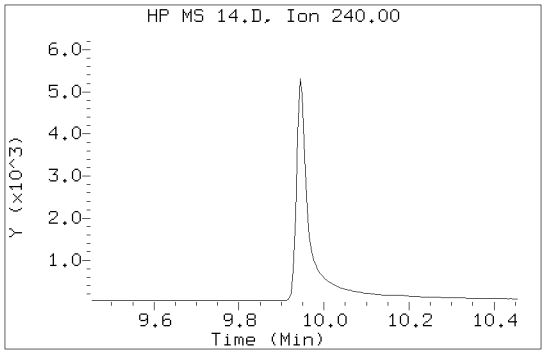
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
19-Jun-2023
15:35
ALSHS
Server




**AFTER**

MASS
240
AREA
15686
HEIGHT
5307
23-Jun-2023
17:51
ALSHS
Ser



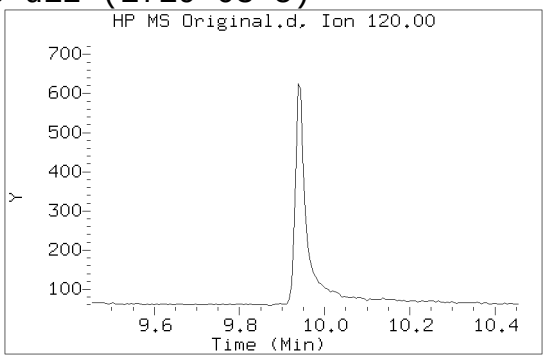
Data File : \\NAHSTWS005\Target\chem\SV6.i\230619.b\14.D
Inj Date : 19-JUN-2023 15:20
InstruID : SV6.i
LabSampID : HS23060999-02

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

Reason Code:

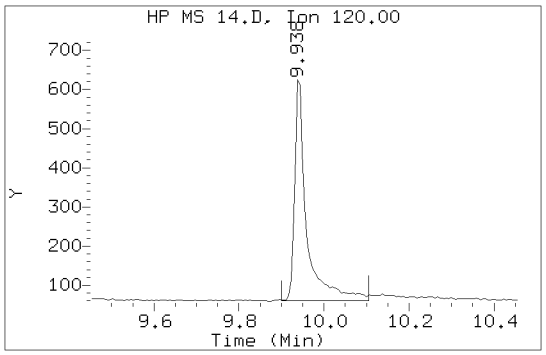
**BEFORE**

MASS
120
AREA
0
HEIGHT
0
19-Jun-2023
15:35
ALSHS
Server



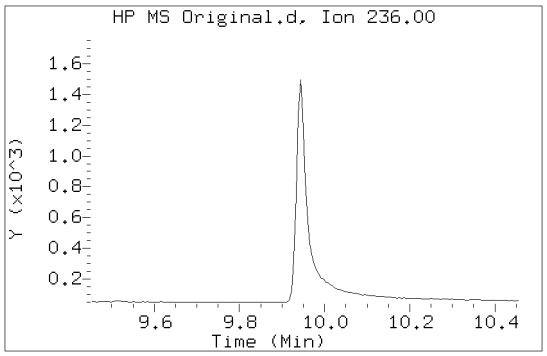

**AFTER**

MASS
120
AREA
1114
HEIGHT
564
23-Jun-2023
17:51
ALSHS
Ser



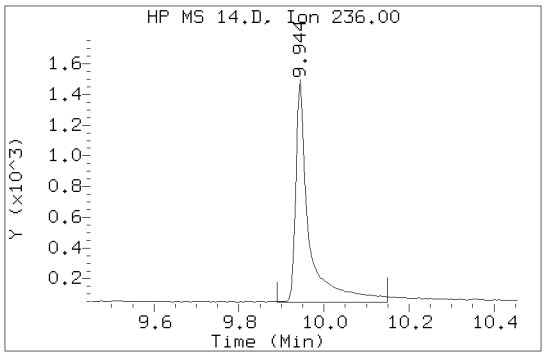

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
19-Jun-2023
15:35
ALSHS
Server




**AFTER**

MASS
236
AREA
3155
HEIGHT
1448
23-Jun-2023
17:51
ALSHS
Ser

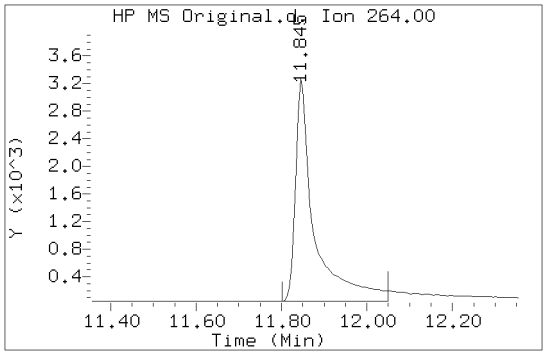



## Perylene-d12 (1520-96-3)

Reason Code:

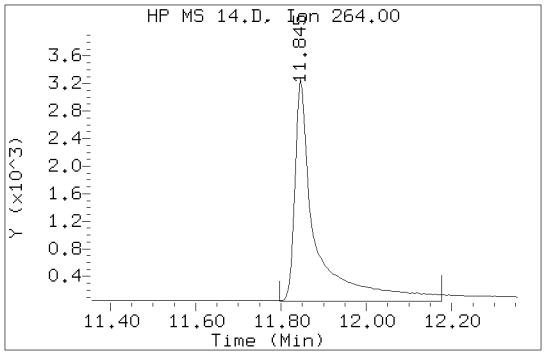
**BEFORE**

MASS
264
AREA
9793
HEIGHT
3217
19-Jun-2023
15:35
ALSHS
Server



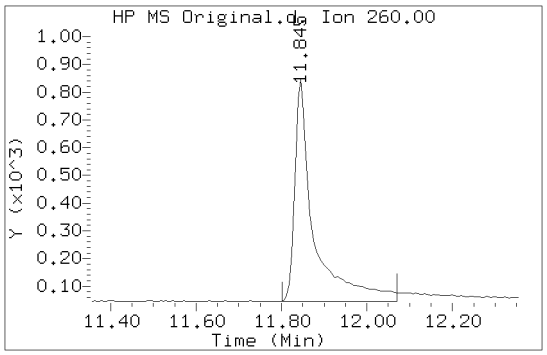

**AFTER**

MASS
264
AREA
10860
HEIGHT
3227
23-Jun-2023
17:51
ALSHS
Ser



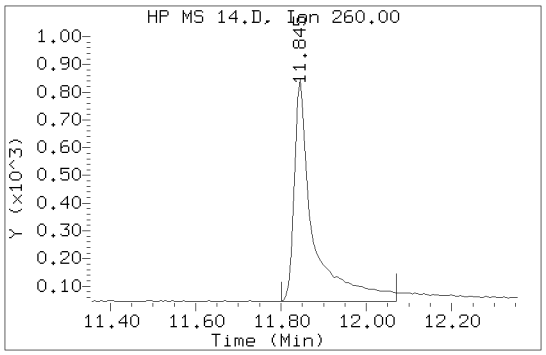

**BEFORE**

MASS
260
AREA
2452
HEIGHT
798
19-Jun-2023
15:35
ALSHS
Server




**AFTER**

MASS
260
AREA
2452
HEIGHT
798
23-Jun-2023
17:51
ALSHS
Ser

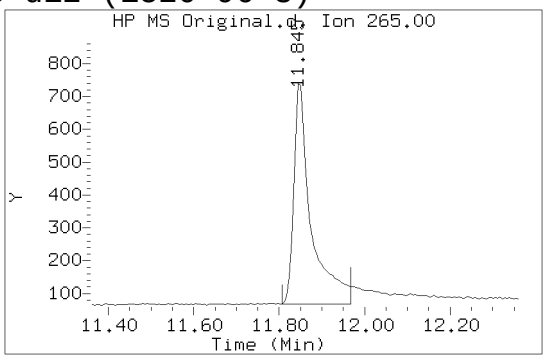


Data File : \\NAHSTWS005\Target\chem\SV6.i\230619.b\14.D
Inj Date : 19-JUN-2023 15:20
InstruID : SV6.i
LabSampID : HS23060999-02

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

**BEFORE**

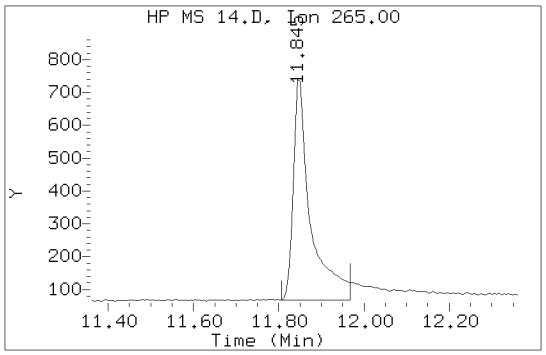
MASS
265
AREA
1890
HEIGHT
671
19-Jun-2023
15:35
ALSHS
Server




Reason Code:

**AFTER**

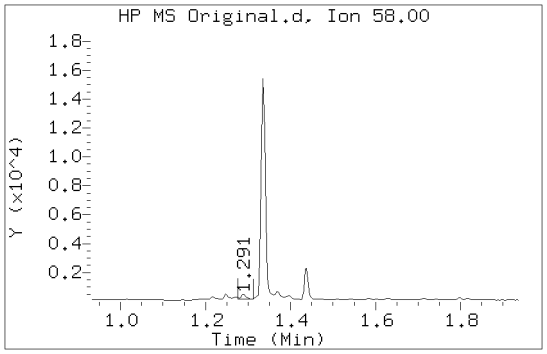
MASS
265
AREA
1890
HEIGHT
671
23-Jun-2023
17:51
ALSHS
Ser




## 1,4-Dioxane ()

**BEFORE**

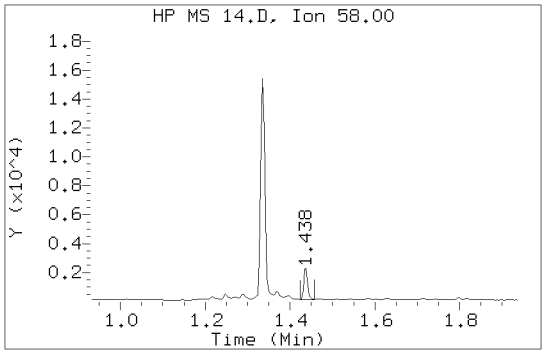
MASS
58
AREA
295
HEIGHT
310
19-Jun-2023
15:35
ALSHS
Server




Reason Code:

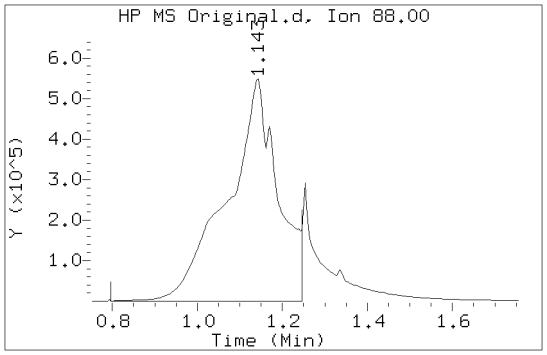
**AFTER**

MASS
58
AREA
1467
HEIGHT
2188
23-Jun-2023
17:51
ALSHS
Ser



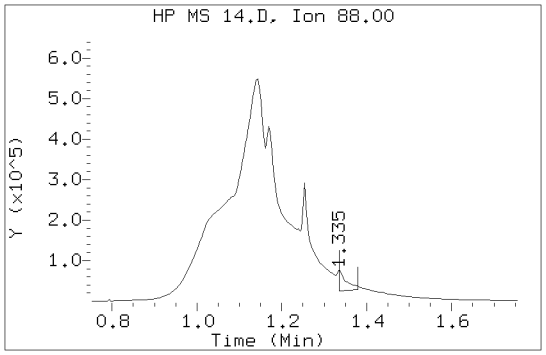

**BEFORE**

MASS
88
AREA
4506200
HEIGHT
547968
19-Jun-2023
15:35
ALSHS
Server




**AFTER**

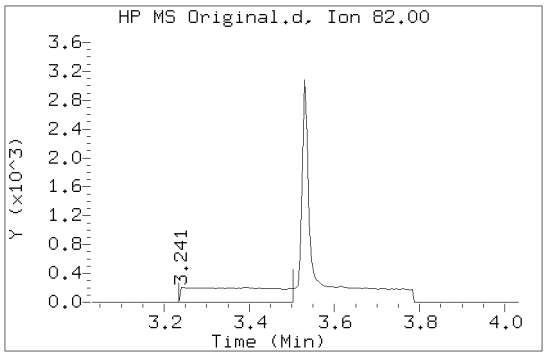
MASS
88
AREA
66012
HEIGHT
51844
23-Jun-2023
17:51
ALSHS
Ser




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

**BEFORE**

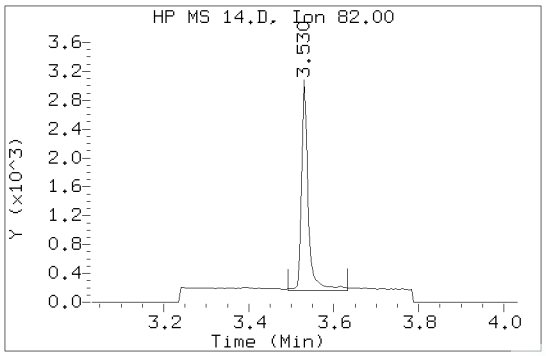
MASS
82
AREA
3092
HEIGHT
205
19-Jun-2023
15:35
ALSHS
Server




Reason Code:

**AFTER**

MASS
82
AREA
3293
HEIGHT
2925
23-Jun-2023
17:51
ALSHS
Ser



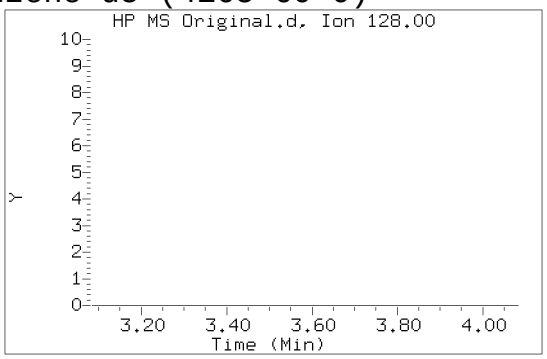
Data File : \\NAHSTWS005\Target\chem\SV6.i\230619.b\14.D
Inj Date : 19-JUN-2023 15:20
InstruID : SV6.i
LabSampID : HS23060999-02

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

Reason Code:

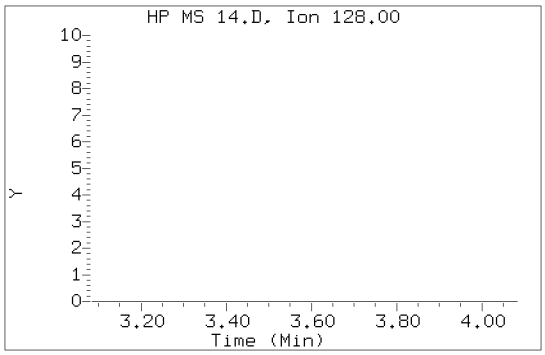
**BEFORE**

MASS
128
AREA
0
HEIGHT
0
19-Jun-2023
15:35
ALSHS
Server



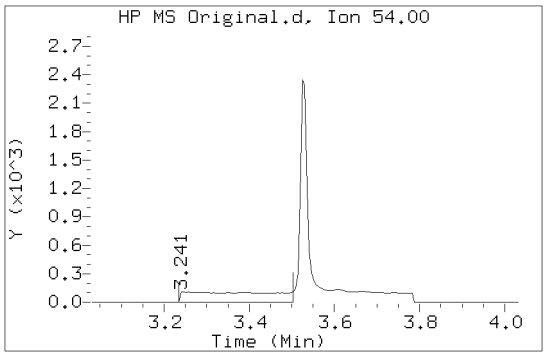

**AFTER**

MASS
128
AREA
0
HEIGHT
0
23-Jun-2023
17:51
ALSHS
Ser



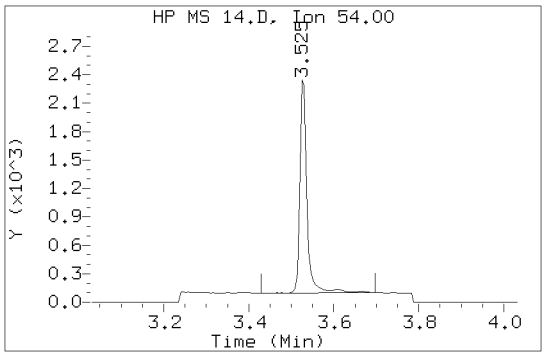

**BEFORE**

MASS
54
AREA
1601
HEIGHT
110
19-Jun-2023
15:35
ALSHS
Server




**AFTER**

MASS
54
AREA
2636
HEIGHT
2247
23-Jun-2023
17:51
ALSHS
Ser

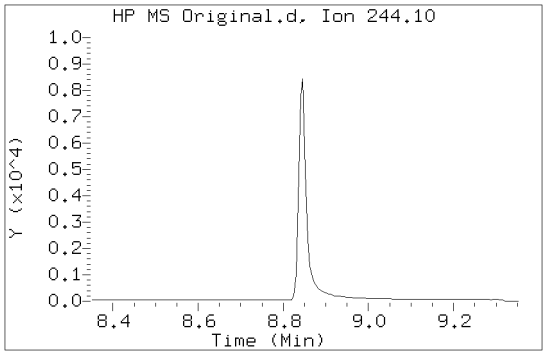



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

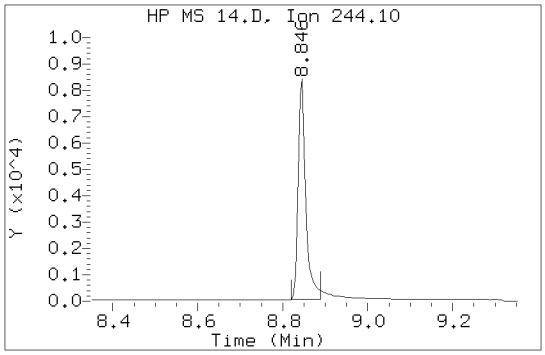
**BEFORE**

MASS
244.1
AREA
0
HEIGHT
0
19-Jun-2023
15:35
ALSHS
Server



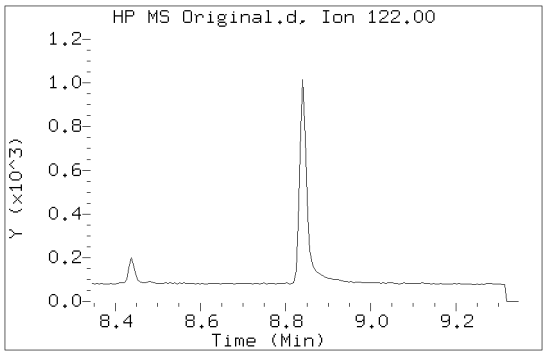

**AFTER**

MASS
244.1
AREA
10377
HEIGHT
8369
23-Jun-2023
17:51
ALSHS
Ser



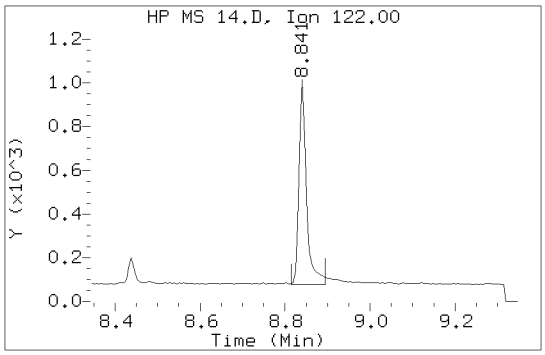

**BEFORE**

MASS
122
AREA
0
HEIGHT
0
19-Jun-2023
15:35
ALSHS
Server



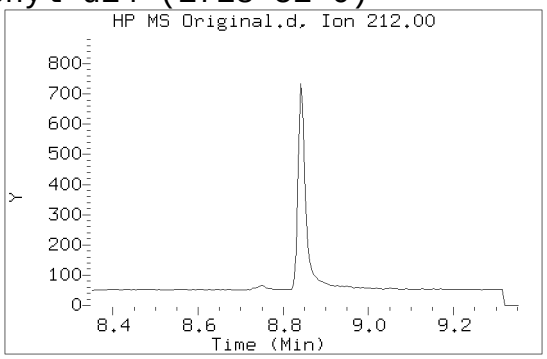

**AFTER**

MASS
122
AREA
1141
HEIGHT
938
23-Jun-2023
17:51
ALSHS
Ser



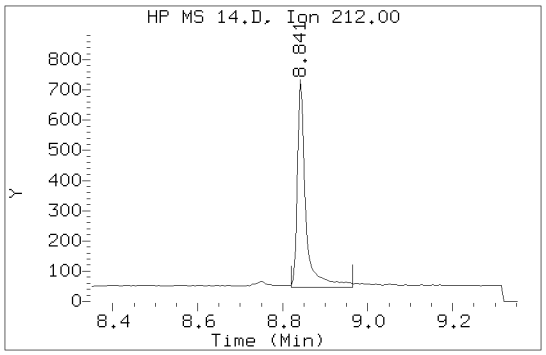
Data File : \\NAHSTWS005\Target\chem\SV6.i\230619.b\14.D
Inj Date : 19-JUN-2023 15:20
InstruID : SV6.i
LabSampID : HS23060999-02

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



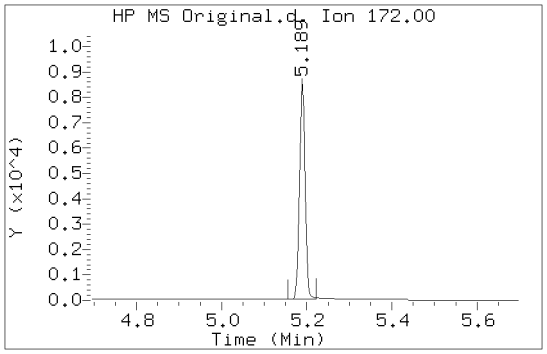

BEFORE
MASS
212
AREA
0
HEIGHT
0
19-Jun-2023
15:35
ALSHS
Server

Reason Code:



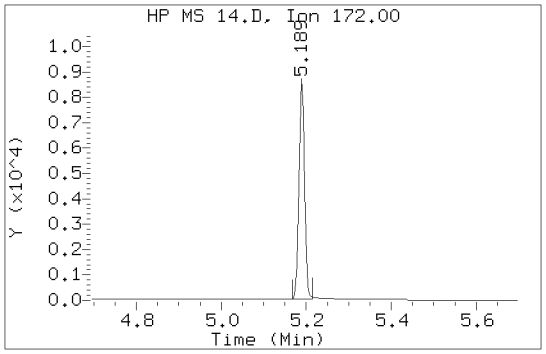

AFTER
MASS
212
AREA
953
HEIGHT
688
23-Jun-2023
17:51
ALSHS
Ser

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

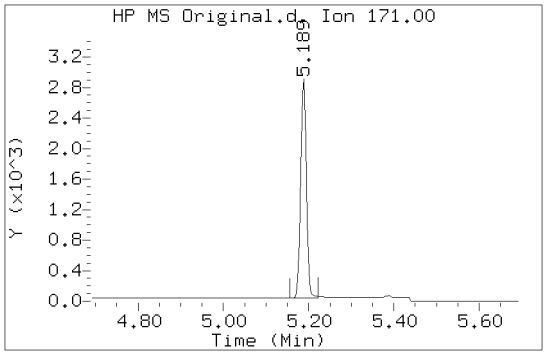



BEFORE
MASS
172
AREA
7733
HEIGHT
8688
19-Jun-2023
15:35
ALSHS
Server

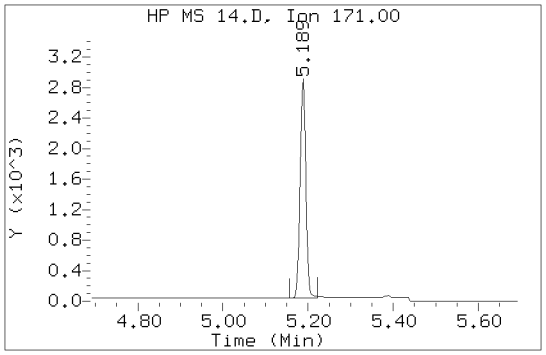
Reason Code:




AFTER
MASS
172
AREA
7656
HEIGHT
8672
23-Jun-2023
17:51
ALSHS
Ser




BEFORE
MASS
171
AREA
2624
HEIGHT
2867
19-Jun-2023
15:35
ALSHS
Server




AFTER
MASS
171
AREA
2624
HEIGHT
2867
23-Jun-2023
17:51
ALSHS
Ser

Data File: \\NAHSTWS005\Target\chem\SV6.i\230619.b\17.D Page 1
Report Date: 23-Jun-2023 17:51

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230619.b\17.D
Lab Smp Id: HS23060999-05 Client Smp ID: HS23060999-05
Inj Date : 19-JUN-2023 16:14
Operator : LG Inst ID: SV6.i
Smp Info : HS23060999-05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230619.b\DXSIM.m
Meth Date : 20-Jun-2023 09:42 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.074 | 3.074 | (1.000) | 3763 | 0.10000 | (a) |
| * 45 Naphthalene-d8 | 136 | 4.164 | 4.164 | (1.000) | 11854 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.530 | 3.530 | (0.848) | 2723 | 0.07561 | 0.07560(M) |
| * 86 Acenaphthene-d10 | 164 | 5.825 | 5.825 | (1.000) | 7005 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 5.192 | 5.196 | (0.891) | 6316 | 0.08817 | 0.08817(M) |
| * 126 Phenanthrene-d10 | 188 | 7.264 | 7.270 | (1.000) | 13674 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 9.949 | 9.954 | (1.000) | 11691 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.846 | 8.851 | (0.889) | 7743 | 0.08977 | 0.08977(M) |
| * 198 Perylene-d12 | 264 | 11.850 | 11.855 | (1.000) | 7657 | 0.10000 | |

QC Flag Legend

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

01195912

Data File: \\NAHSTWS005\Target\chem\SV6.i\230619.b\17.D



Date : 19-JUN-2023 16:14

Client ID: HS23060999-05

Instrument: SV6.i

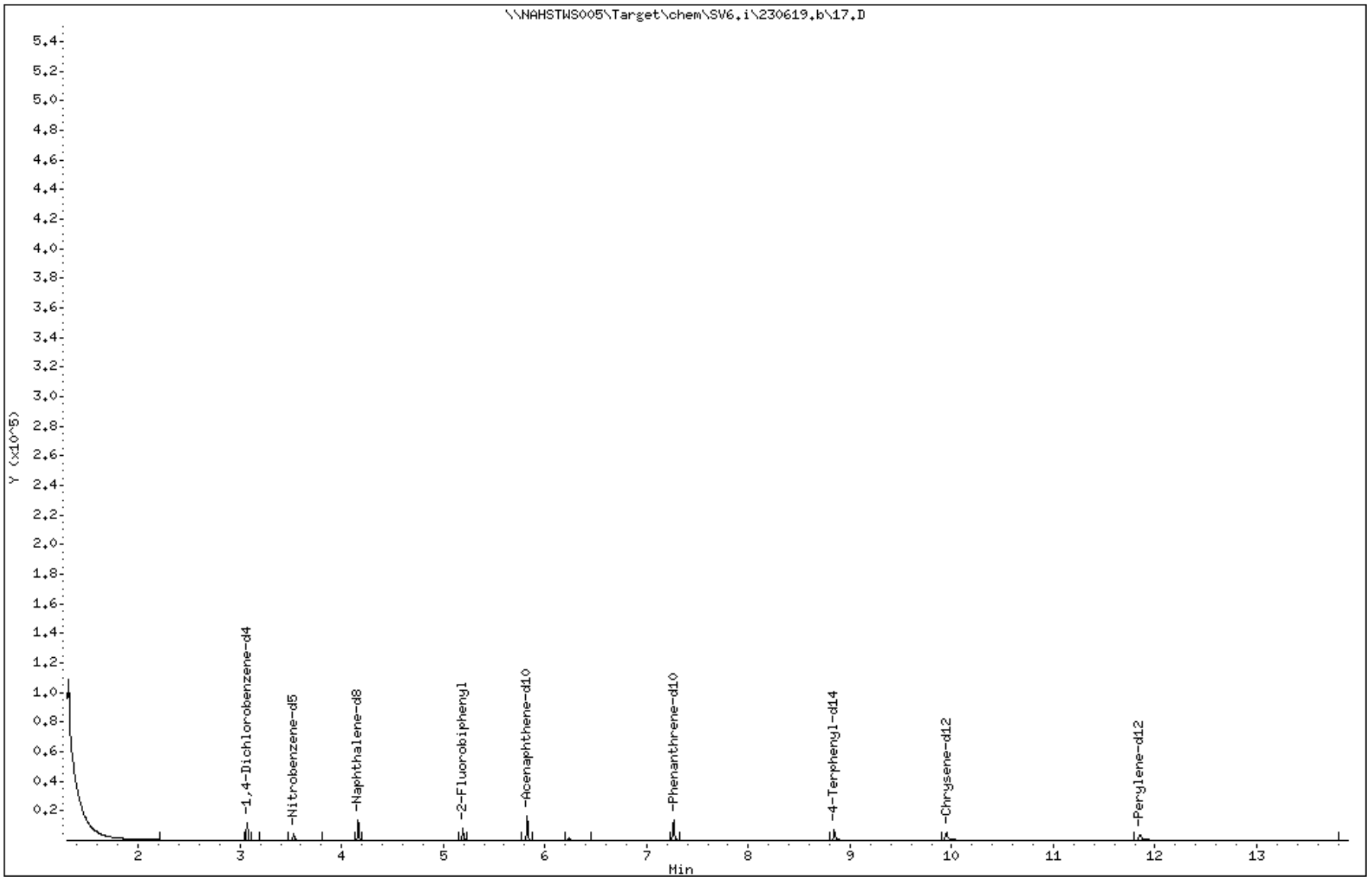
Sample Info: HS23060999-05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



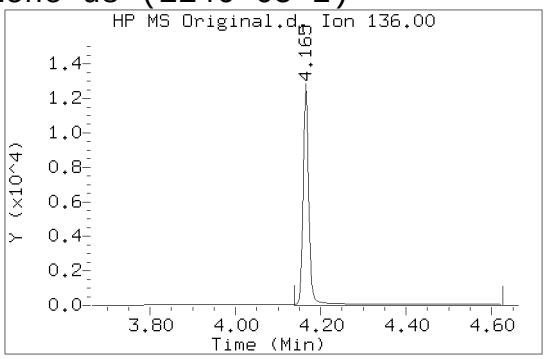
Data File : \\NAHSTWS005\Target\chem\SV6.i\230619.b\17.D
Inj Date : 19-JUN-2023 16:14
InstruID : SV6.i
LabSampID : HS23060999-05

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

Reason Code:

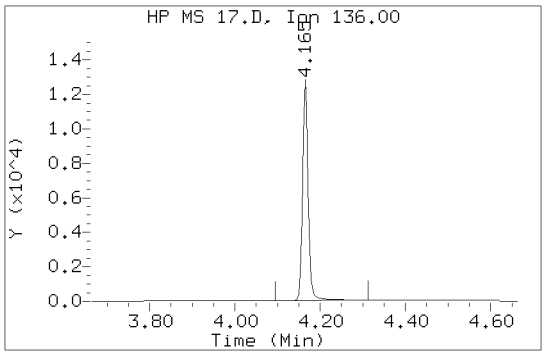
BEFORE

MASS
136
AREA
13698
HEIGHT
12853
19-Jun-2023
16:30
ALSHS
Server



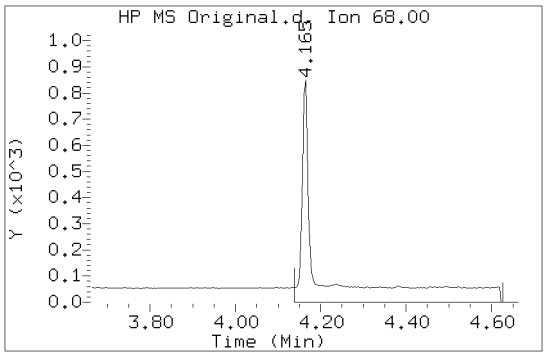

AFTER

MASS
136
AREA
11854
HEIGHT
12794
23-Jun-2023
17:51
ALSHS
Ser



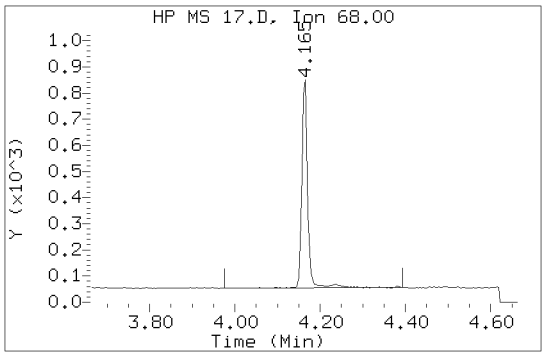

BEFORE

MASS
68
AREA
2385
HEIGHT
850
19-Jun-2023
16:30
ALSHS
Server




AFTER

MASS
68
AREA
784
HEIGHT
795
23-Jun-2023
17:51
ALSHS
Ser

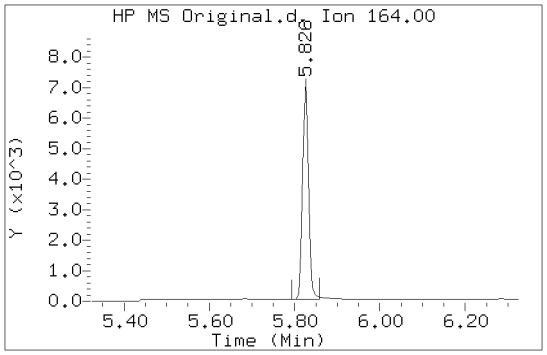



## Acenaphthene-d10 (15067-26-2)

Reason Code:

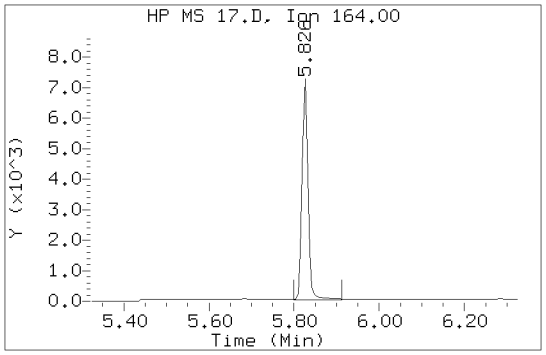
BEFORE

MASS
164
AREA
6842
HEIGHT
7225
19-Jun-2023
16:30
ALSHS
Server



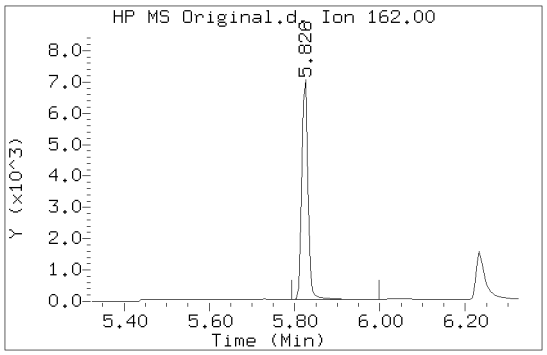

AFTER

MASS
164
AREA
7005
HEIGHT
7233
23-Jun-2023
17:51
ALSHS
Ser



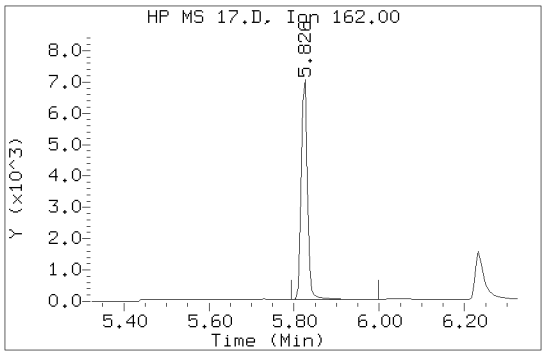

BEFORE

MASS
162
AREA
7078
HEIGHT
7017
19-Jun-2023
16:30
ALSHS
Server




AFTER

MASS
162
AREA
7078
HEIGHT
7017
23-Jun-2023
17:51
ALSHS
Ser



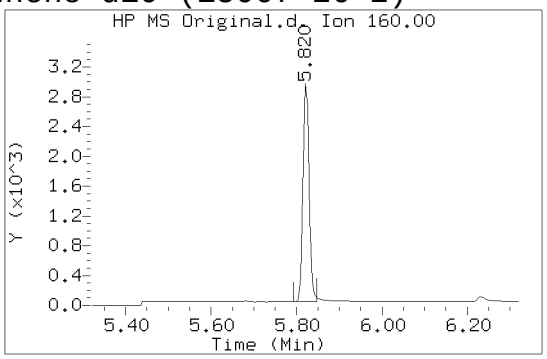
Data File : \\NAHSTWS005\Target\chem\SV6.i\230619.b\17.D
Inj Date : 19-JUN-2023 16:14
InstruID : SV6.i
LabSampID : HS23060999-05

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

Reason Code:

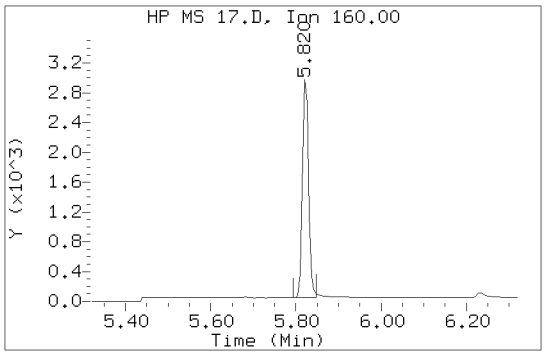
BEFORE

MASS
160
AREA
2877
HEIGHT
2925
19-Jun-2023
16:30
ALSHS
Server




AFTER

MASS
160
AREA
2877
HEIGHT
2925
23-Jun-2023
17:51
ALSHS
Ser

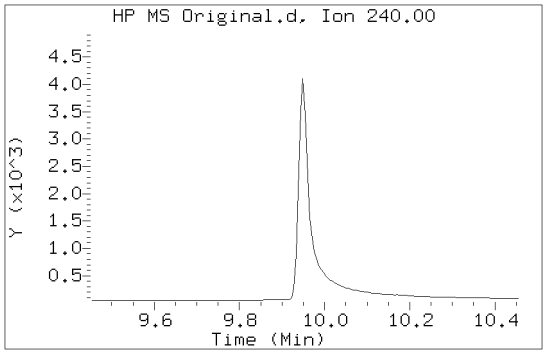



## Chrysene-d12 (1719-03-5)

Reason Code:

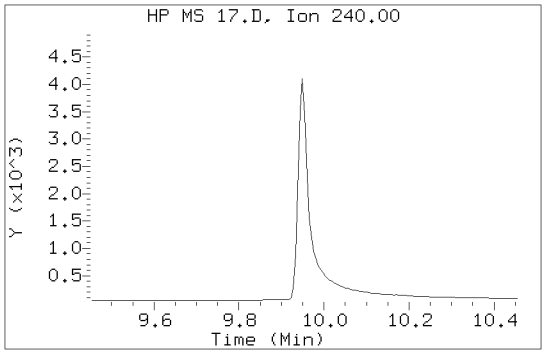
BEFORE

MASS
240
AREA
0
HEIGHT
0
19-Jun-2023
16:30
ALSHS
Server



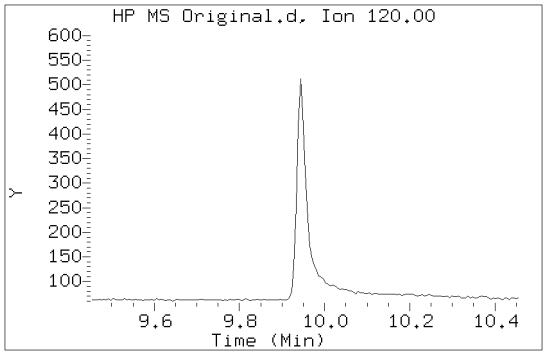

AFTER

MASS
240
AREA
11691
HEIGHT
4079
23-Jun-2023
17:51
ALSHS
Ser



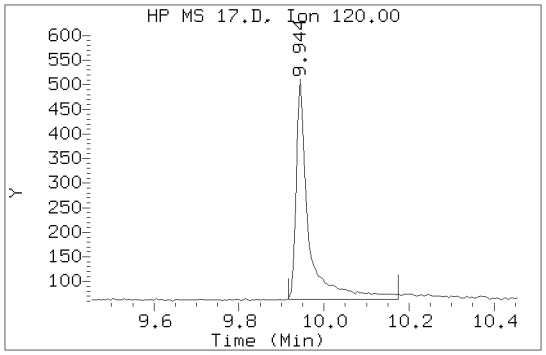

BEFORE

MASS
120
AREA
0
HEIGHT
0
19-Jun-2023
16:30
ALSHS
Server



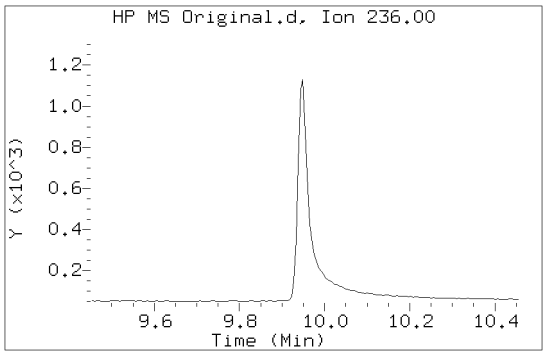

AFTER

MASS
120
AREA
917
HEIGHT
448
23-Jun-2023
17:51
ALSHS
Ser



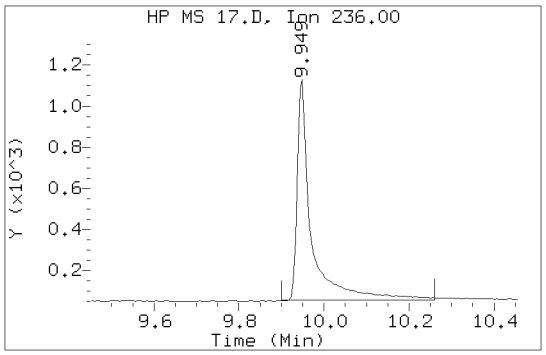

BEFORE

MASS
236
AREA
0
HEIGHT
0
19-Jun-2023
16:30
ALSHS
Server




AFTER

MASS
236
AREA
2506
HEIGHT
1074
23-Jun-2023
17:51
ALSHS
Ser



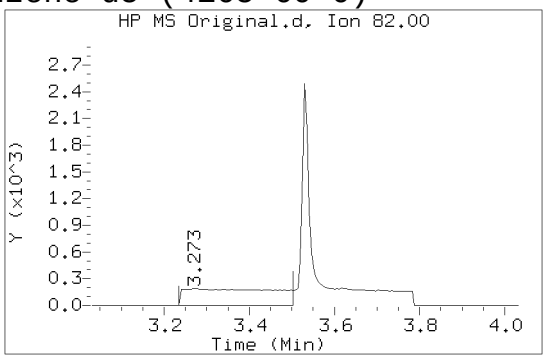
Data File : \\NAHSTWS005\Target\chem\SV6.i\230619.b\17.D
Inj Date : 19-JUN-2023 16:14
InstruID : SV6.i
LabSampID : HS23060999-05

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

Reason Code:

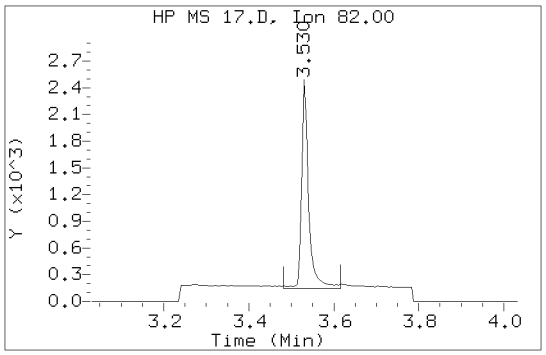
BEFORE

MASS
82
AREA
2806
HEIGHT
185
19-Jun-2023
16:30
ALSHS
Server



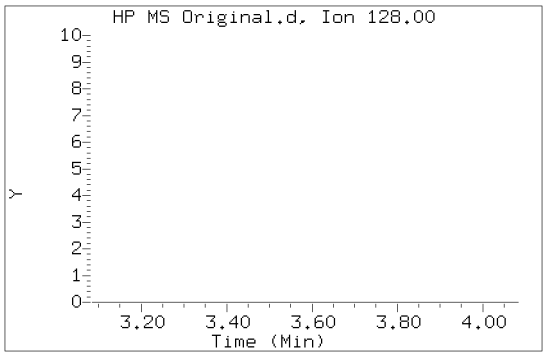

AFTER

MASS
82
AREA
2723
HEIGHT
2344
23-Jun-2023
17:51
ALSHS
Ser



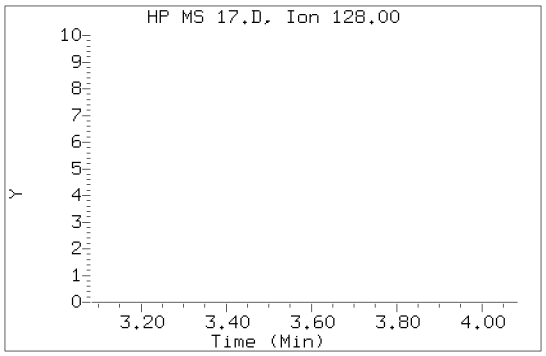

BEFORE

MASS
128
AREA
0
HEIGHT
0
19-Jun-2023
16:30
ALSHS
Server



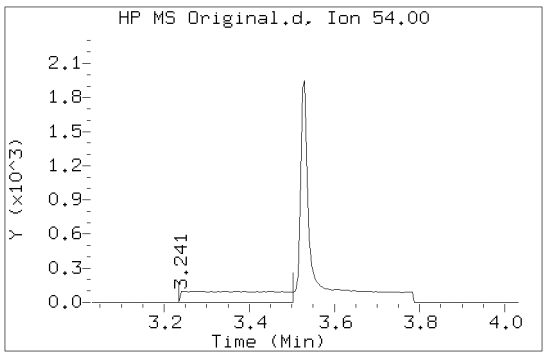

AFTER

MASS
128
AREA
0
HEIGHT
0
23-Jun-2023
17:51
ALSHS
Ser



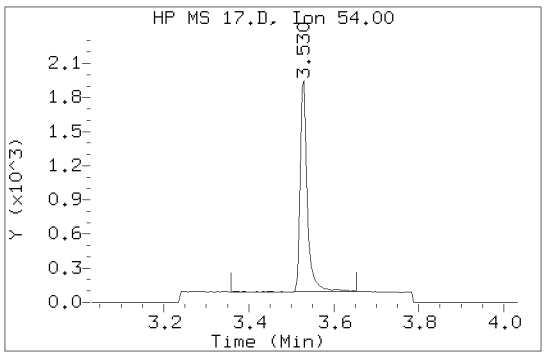

BEFORE

MASS
54
AREA
1487
HEIGHT
95
19-Jun-2023
16:30
ALSHS
Server




AFTER

MASS
54
AREA
2170
HEIGHT
1852
23-Jun-2023
17:51
ALSHS
Ser

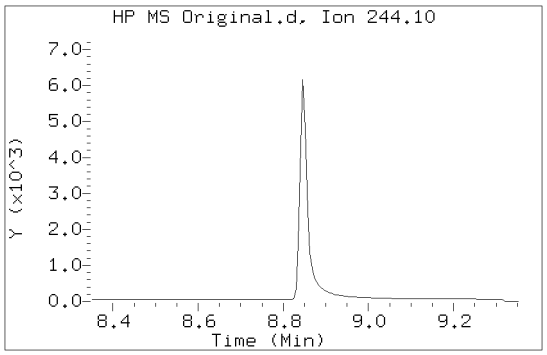



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

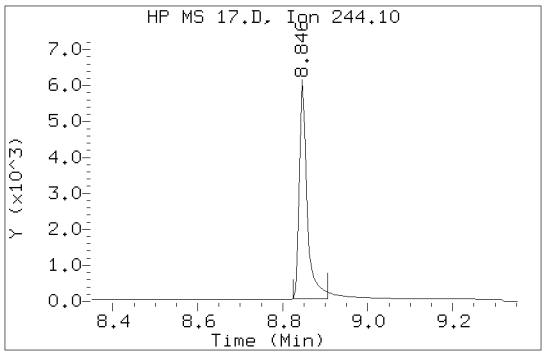
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
19-Jun-2023
16:30
ALSHS
Server




AFTER

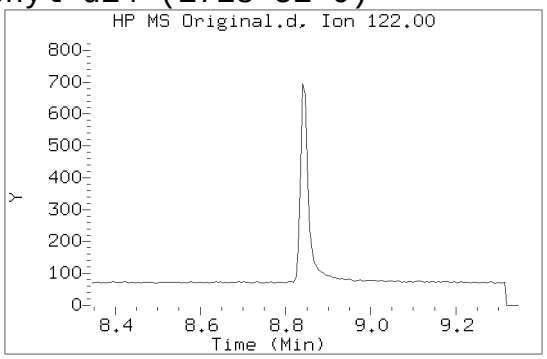
MASS
244.1
AREA
7743
HEIGHT
6098
23-Jun-2023
17:51
ALSHS
Ser



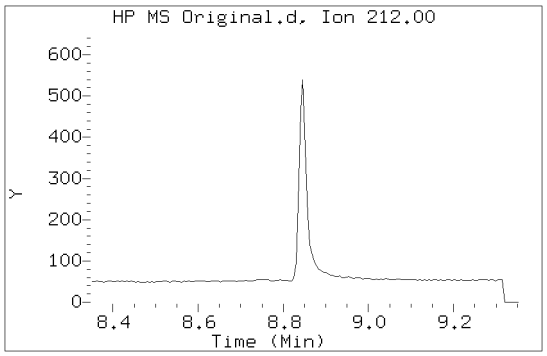
Data File : \\NAHSTWS005\Target\chem\SV6.i\230619.b\17.D
Inj Date : 19-JUN-2023 16:14
InstruID : SV6.i
LabSampID : HS23060999-05

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

BEFORE
MASS
122
AREA
0
HEIGHT
0
19-Jun-2023
16:30
ALSHS
Server

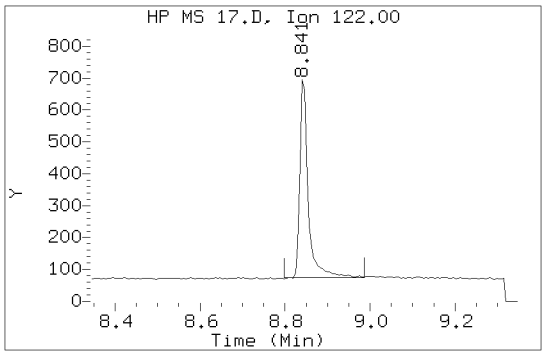



BEFORE
MASS
212
AREA
0
HEIGHT
0
19-Jun-2023
16:30
ALSHS
Server

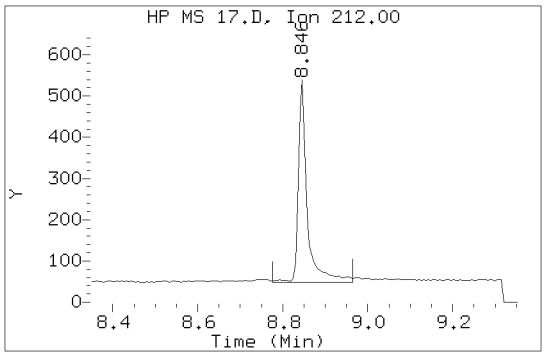



Reason Code:

AFTER
MASS
122
AREA
832
HEIGHT
620
23-Jun-2023
17:51
ALSHS
Ser

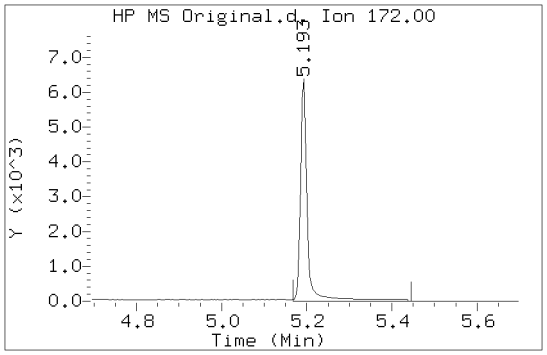



AFTER
MASS
212
AREA
715
HEIGHT
491
23-Jun-2023
17:51
ALSHS
Ser

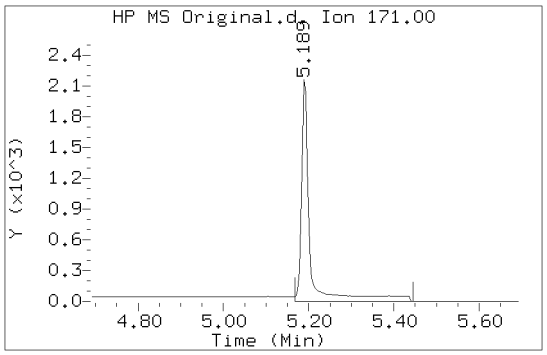



## 2-Fluorobiphenyl (321-60-8)

BEFORE
MASS
172
AREA
7318
HEIGHT
6382
19-Jun-2023
16:30
ALSHS
Server

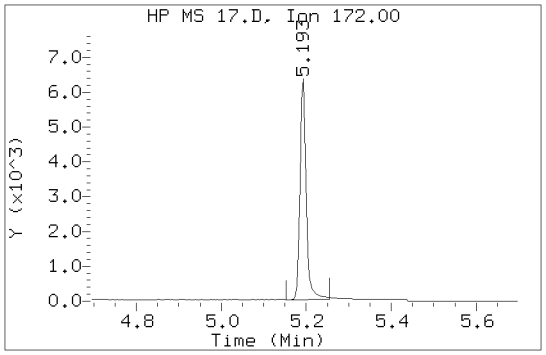



BEFORE
MASS
171
AREA
2970
HEIGHT
2163
19-Jun-2023
16:30
ALSHS
Server

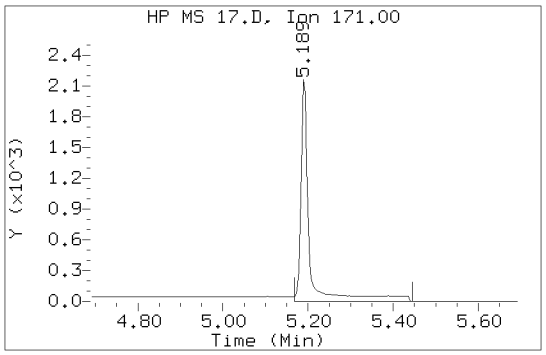



Reason Code:

AFTER
MASS
172
AREA
6316
HEIGHT
6332
23-Jun-2023
17:51
ALSHS
Ser




AFTER
MASS
171
AREA
2970
HEIGHT
2163
23-Jun-2023
17:51
ALSHS
Ser



Data File: \\nahstws005\Target\chem\SV6.i\230619.b\18.D Page 1
Report Date: 19-Jun-2023 16:53

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230619.b\18.D
Lab Smp Id: HS23060999-06 Client Smp ID: HS23060999-06
Inj Date : 19-JUN-2023 16:32
Operator : LG Inst ID: SV6.i
Smp Info : HS23060999-06
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230619.b\DXSIM.m
Meth Date : 19-Jun-2023 12:30 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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 | 3.074 | 3.074 | (1.000) | 4232 | 0.10000 | (a) |
| * 45 Naphthalene-d8 | 136 | 4.164 | 4.164 | (1.000) | 13086 | 0.10000 | |
| $ 33 Nitrobenzene-d5 | 82 | 3.530 | 3.251 | (0.848) | 3443 | 0.08660 | 0.08660(M) |
| * 86 Acenaphthene-d10 | 164 | 5.827 | 5.827 | (1.000) | 9294 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 5.192 | 5.193 | (0.891) | 8307 | 0.08741 | 0.08740(M) |
| * 126 Phenanthrene-d10 | 188 | 7.266 | 7.261 | (1.000) | 16810 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 9.945 | 9.950 | (1.000) | 17878 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.847 | 8.848 | (0.890) | 10834 | 0.08214 | 0.08214(M) |
| * 198 Perylene-d12 | 264 | 11.852 | 11.846 | (1.000) | 10239 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 1.430 | 1.283 | (0.465) | 3097 | 0.21568 | 0.2157(M) |

QC Flag Legend

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

01195918

Data File: \\nahstws005\Target\chem\SV6.i\230619.b\18.D



Date : 19-JUN-2023 16:32

Client ID: HS23060999-06

Instrument: SV6.i

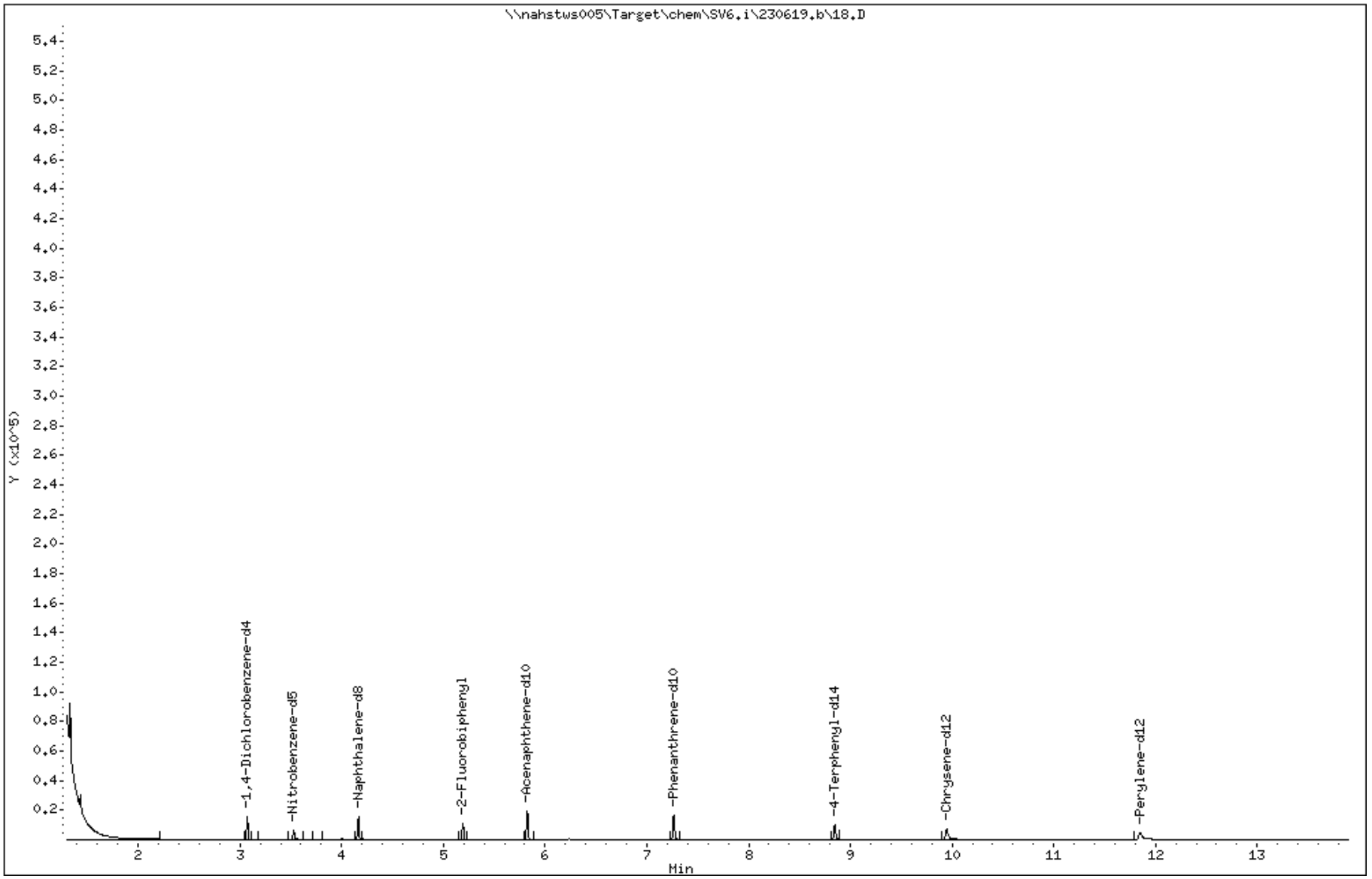
Sample Info: HS23060999-06

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\nahstws005\Target\chem\SV6.i\230619.b\18.D



Date : 19-JUN-2023 16:32

Client ID: HS23060999-06

Instrument: SV6.i

Sample Info: HS23060999-06

Purge Volume: 1000.0

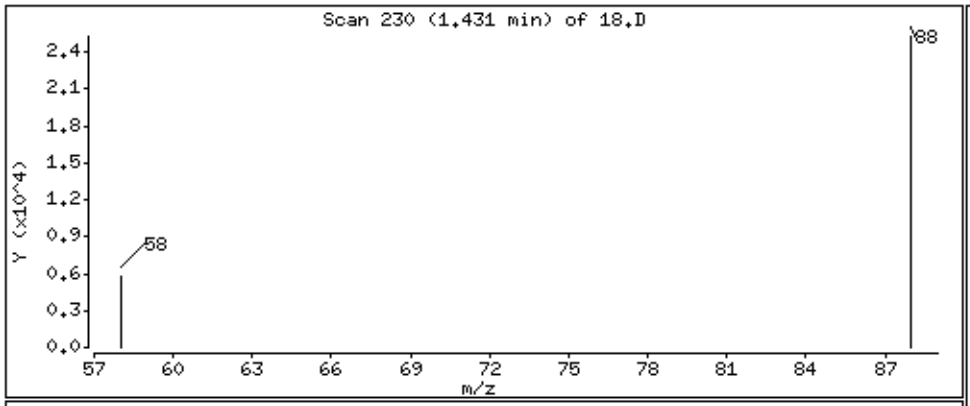
Operator: LG

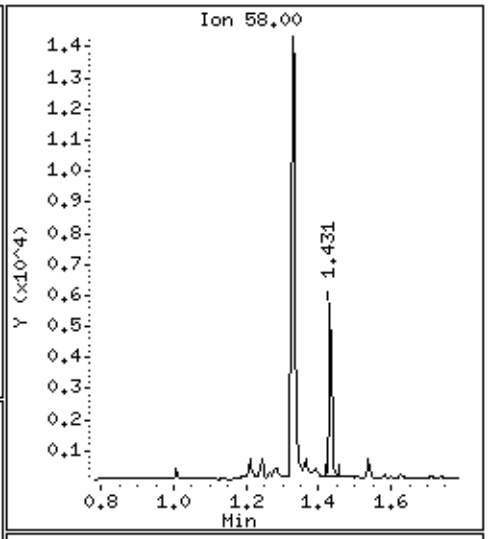
Column phase: RTX-5SIL MS

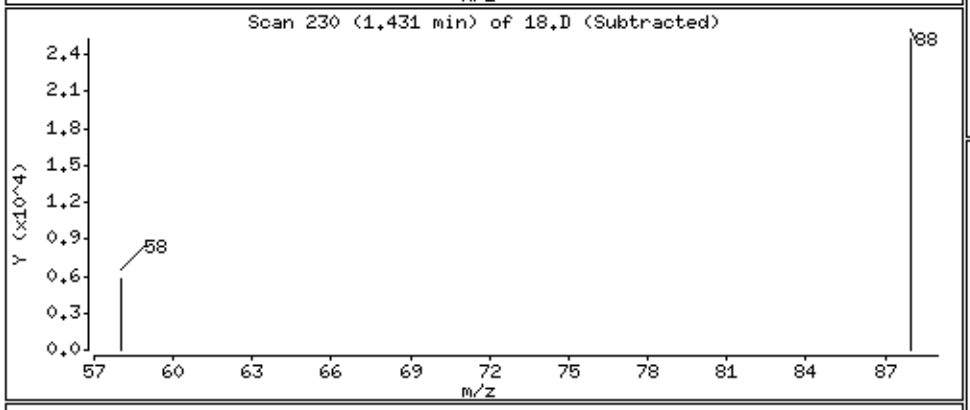
Column diameter: 0.28

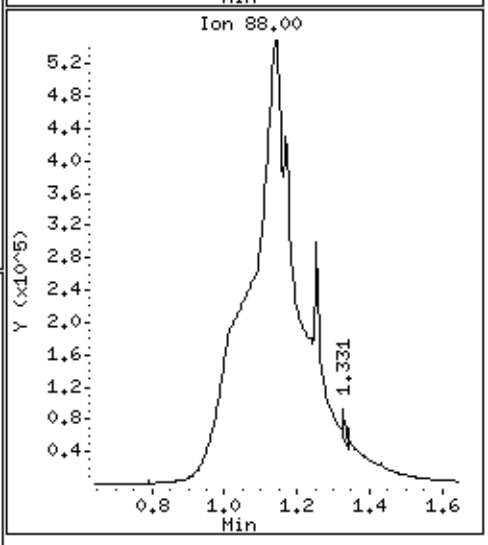
1 1,4-Dioxane

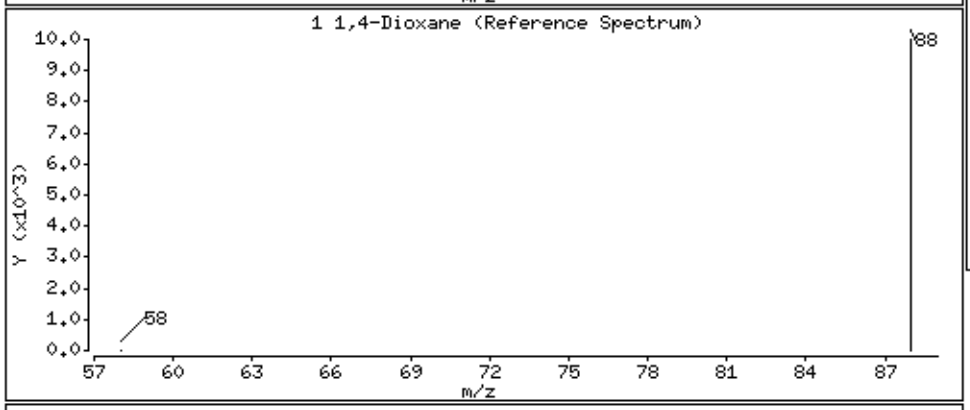
Concentration: 0.2157 ug/L

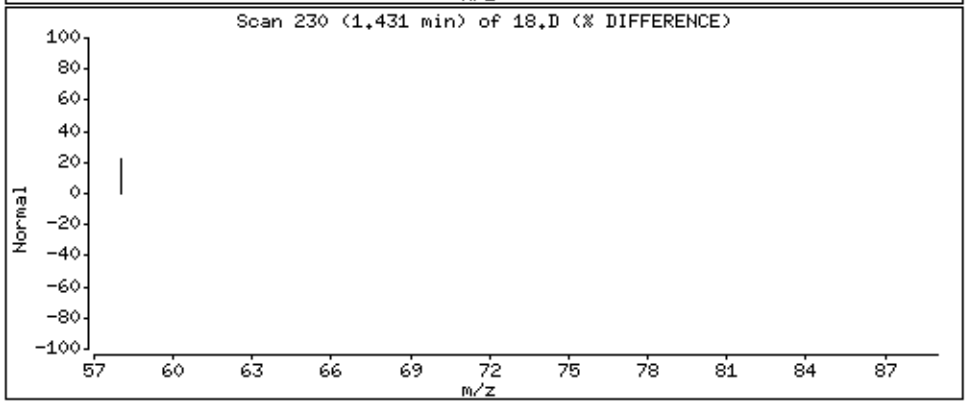


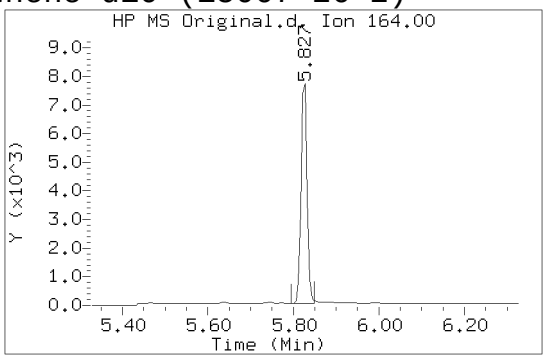
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\18.D
Inj Date : 19-JUN-2023 16:32
InstruID : SV6.i
LabSampID : HS23060999-06

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

Reason Code:

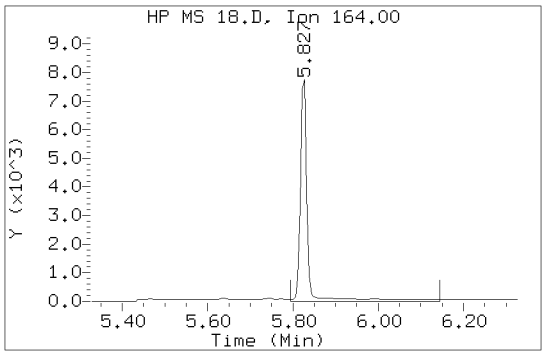
**BEFORE**

MASS
164
AREA
7678
HEIGHT
7681
19-Jun-2023
16:48
ALSHS
Server



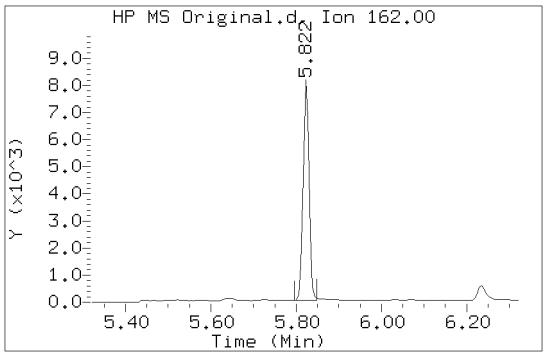

**AFTER**

MASS
164
AREA
9294
HEIGHT
7746
19-Jun-2023
16:53
ALSHS
Se



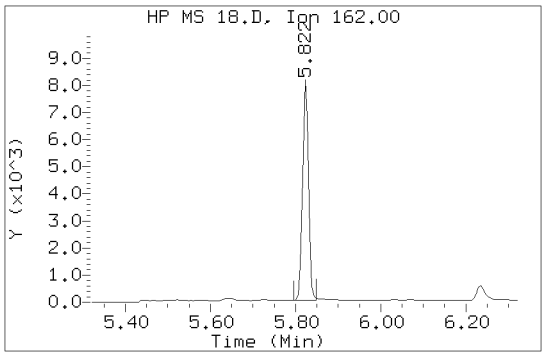

**BEFORE**

MASS
162
AREA
7807
HEIGHT
8148
19-Jun-2023
16:48
ALSHS
Server



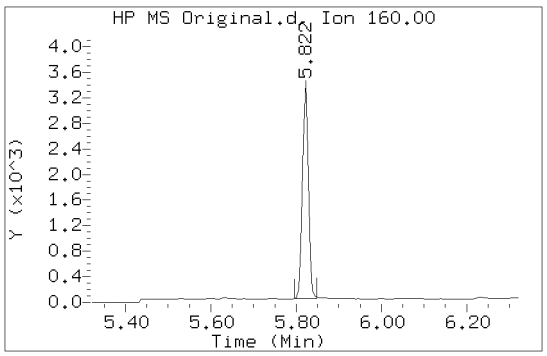

**AFTER**

MASS
162
AREA
7807
HEIGHT
8148
19-Jun-2023
16:53
ALSHS
Se



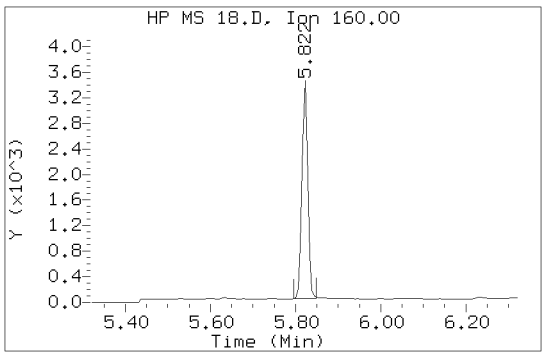

**BEFORE**

MASS
160
AREA
3227
HEIGHT
3409
19-Jun-2023
16:48
ALSHS
Server




**AFTER**

MASS
160
AREA
3227
HEIGHT
3409
19-Jun-2023
16:53
ALSHS
Se

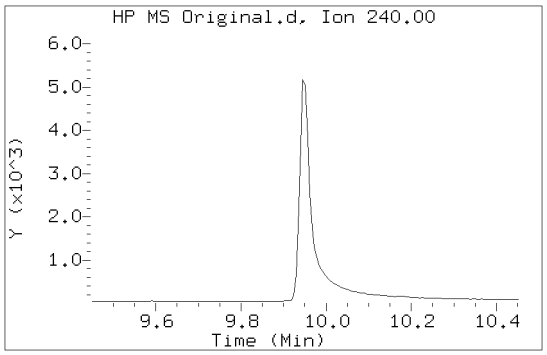



## Chrysene-d12 (1719-03-5)

Reason Code:

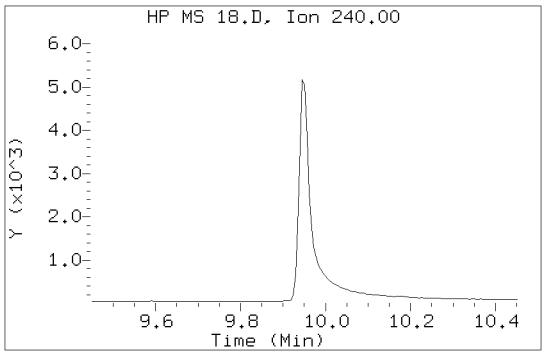
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
19-Jun-2023
16:48
ALSHS
Server




**AFTER**

MASS
240
AREA
17878
HEIGHT
5183
19-Jun-2023
16:53
ALSHS
Se



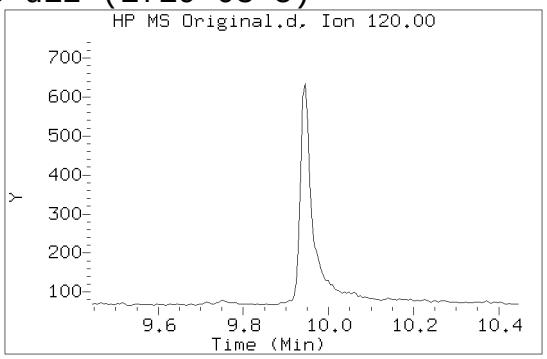
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\18.D
Inj Date : 19-JUN-2023 16:32
InstruID : SV6.i
LabSampID : HS23060999-06

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

Reason Code:

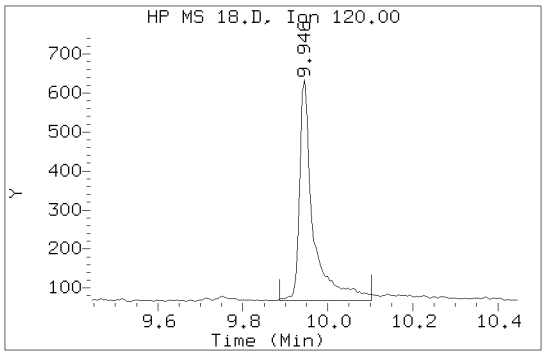
BEFORE

MASS
120
AREA
0
HEIGHT
0
19-Jun-2023
16:48
ALSHS
Server



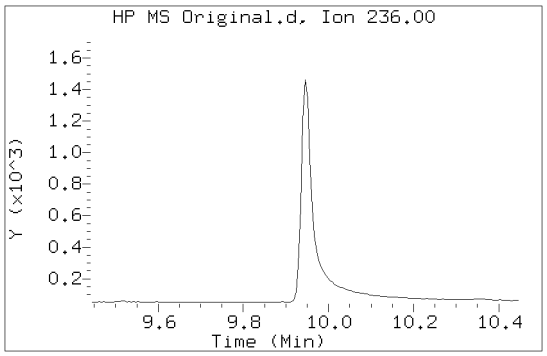

AFTER

MASS
120
AREA
1263
HEIGHT
566
19-Jun-2023
16:53
ALSHS
Se



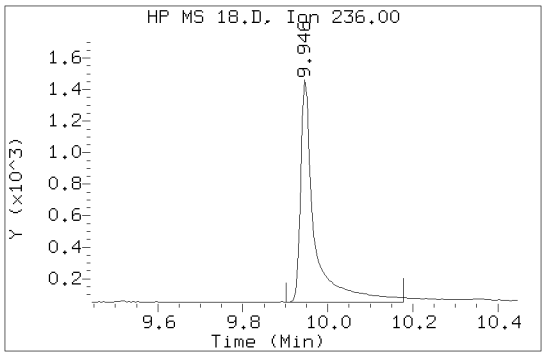

BEFORE

MASS
236
AREA
0
HEIGHT
0
19-Jun-2023
16:48
ALSHS
Server




AFTER

MASS
236
AREA
3217
HEIGHT
1409
19-Jun-2023
16:53
ALSHS
Se

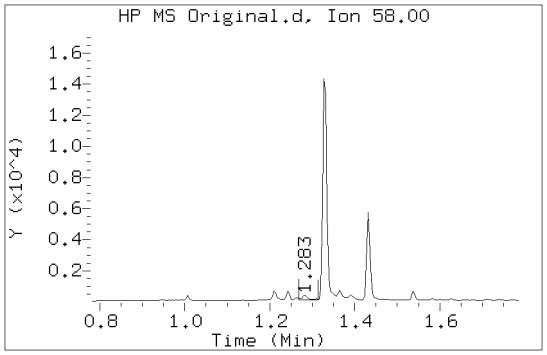



## 1,4-Dioxane ()

Reason Code:

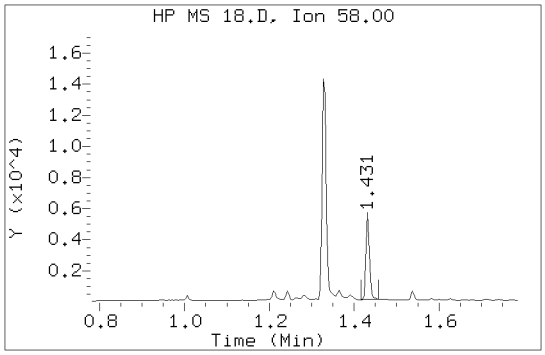
BEFORE

MASS
58
AREA
284
HEIGHT
285
19-Jun-2023
16:48
ALSHS
Server



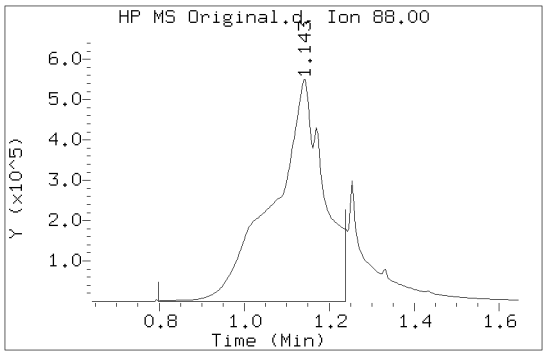

AFTER

MASS
58
AREA
3097
HEIGHT
5570
19-Jun-2023
16:53
ALSHS
Se



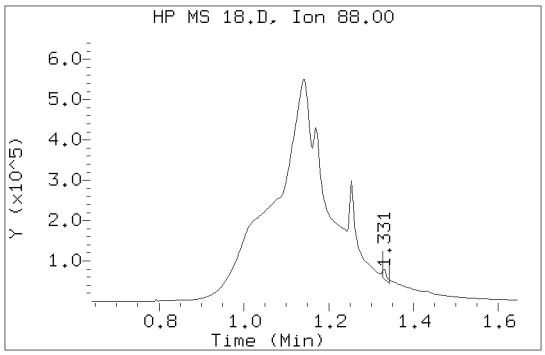

BEFORE

MASS
88
AREA
4520017
HEIGHT
548673
19-Jun-2023
16:48
ALSHS
Server




AFTER

MASS
88
AREA
17223
HEIGHT
24062
19-Jun-2023
16:53
ALSHS
Se



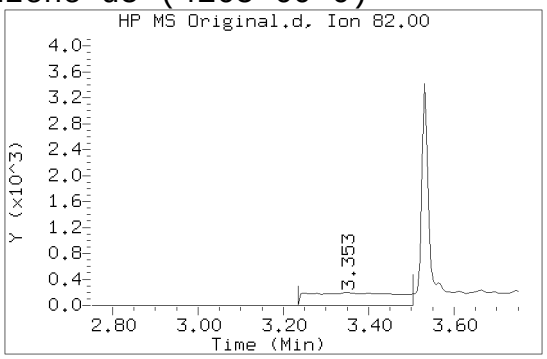
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\18.D
Inj Date : 19-JUN-2023 16:32
InstruID : SV6.i
LabSampID : HS23060999-06

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

Reason Code:

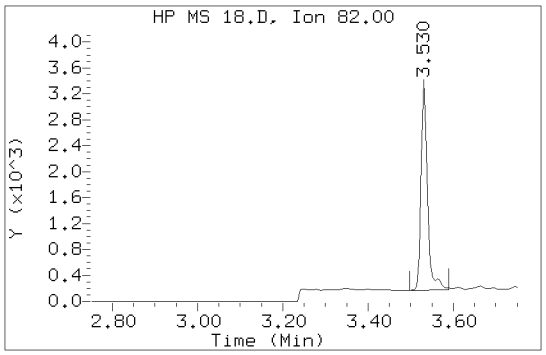
BEFORE

MASS
82
AREA
2869
HEIGHT
197
19-Jun-2023
16:48
ALSHS
Server



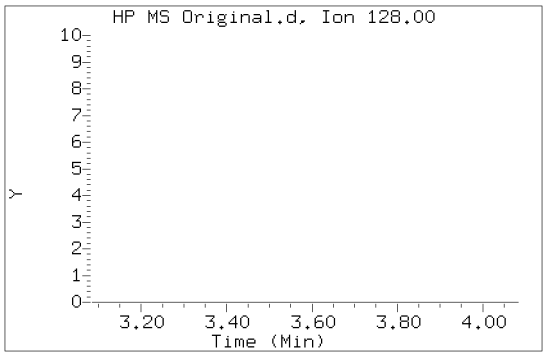

AFTER

MASS
82
AREA
3443
HEIGHT
3245
19-Jun-2023
16:53
ALSHS
Se



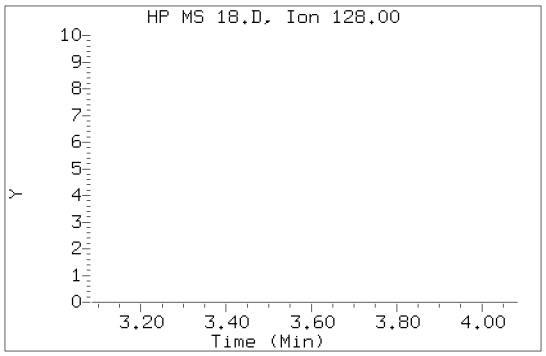

BEFORE

MASS
128
AREA
0
HEIGHT
0
19-Jun-2023
16:48
ALSHS
Server



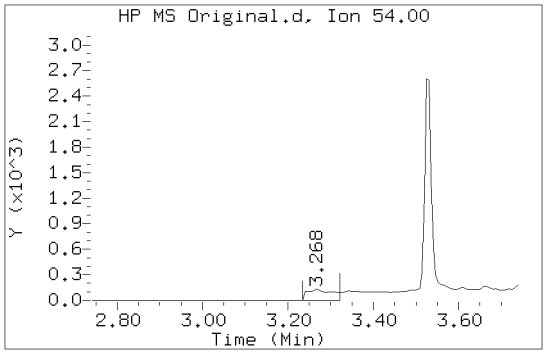

AFTER

MASS
128
AREA
0
HEIGHT
0
19-Jun-2023
16:53
ALSHS
Se



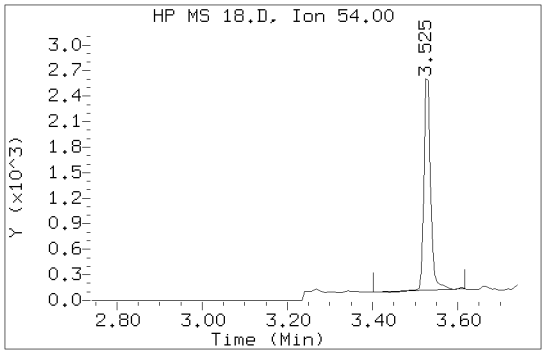

BEFORE

MASS
54
AREA
536
HEIGHT
132
19-Jun-2023
16:48
ALSHS
Server




AFTER

MASS
54
AREA
2745
HEIGHT
2483
19-Jun-2023
16:53
ALSHS
Se

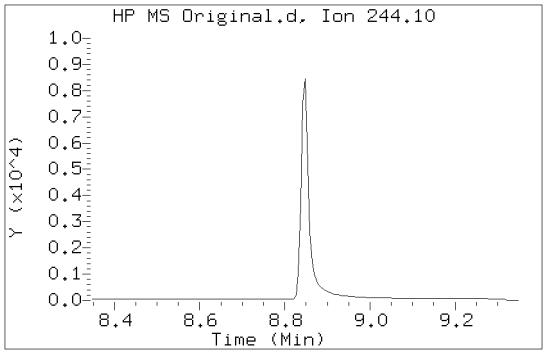



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

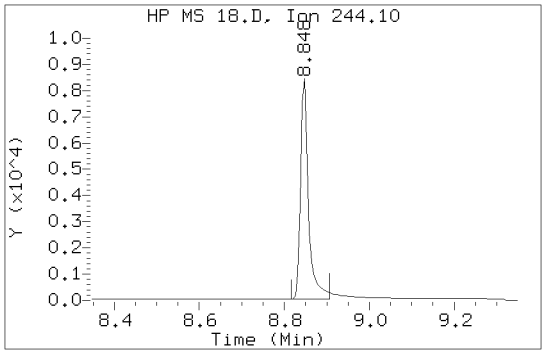
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
19-Jun-2023
16:48
ALSHS
Server




AFTER

MASS
244.1
AREA
10834
HEIGHT
8406
19-Jun-2023
16:53
ALSHS
Se



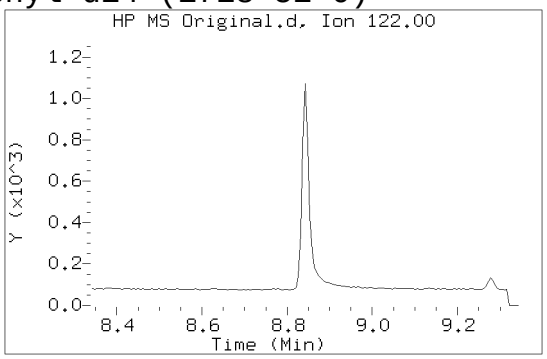
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\18.D
Inj Date : 19-JUN-2023 16:32
InstruID : SV6.i
LabSampID : HS23060999-06

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

Reason Code:

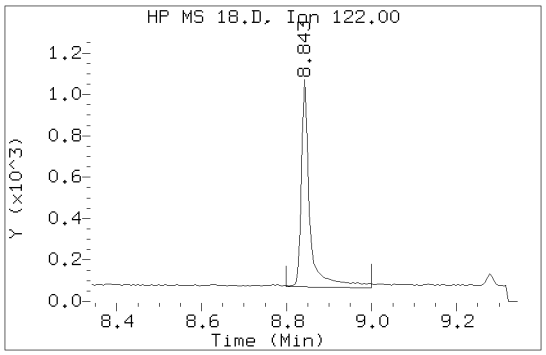
**BEFORE**

MASS
122
AREA
0
HEIGHT
0
19-Jun-2023
16:48
ALSHS
Server



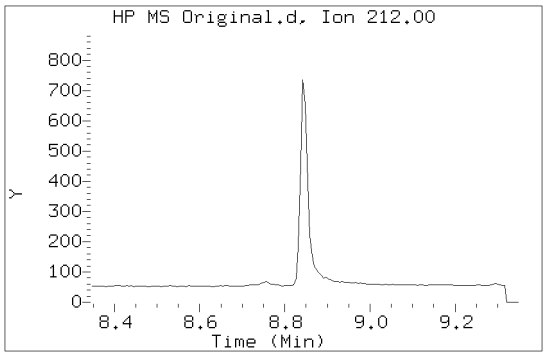

**AFTER**

MASS
122
AREA
1394
HEIGHT
1002
19-Jun-2023
16:53
ALSHS
Se



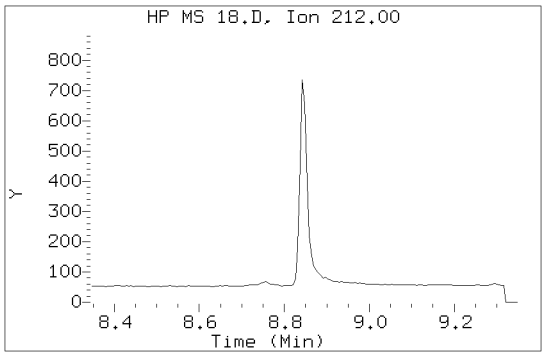

**BEFORE**

MASS
212
AREA
0
HEIGHT
0
19-Jun-2023
16:48
ALSHS
Server




**AFTER**

MASS
212
AREA
0
HEIGHT
0
19-Jun-2023
16:53
ALSHS
Se

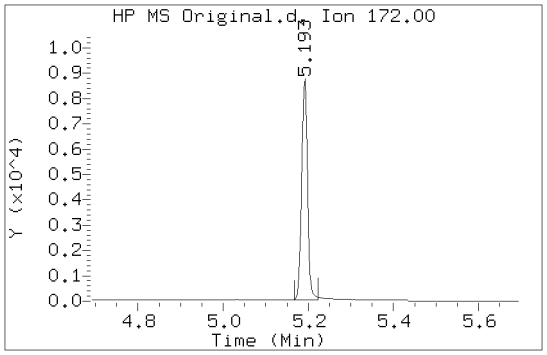



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

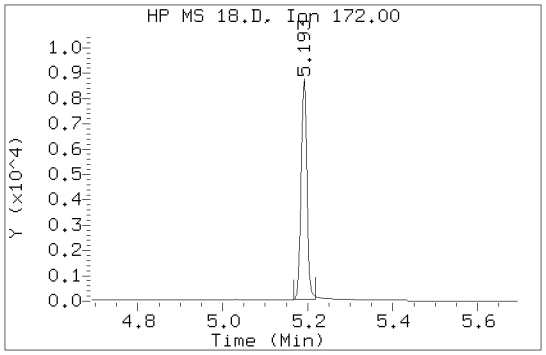
**BEFORE**

MASS
172
AREA
8372
HEIGHT
8725
19-Jun-2023
16:48
ALSHS
Server



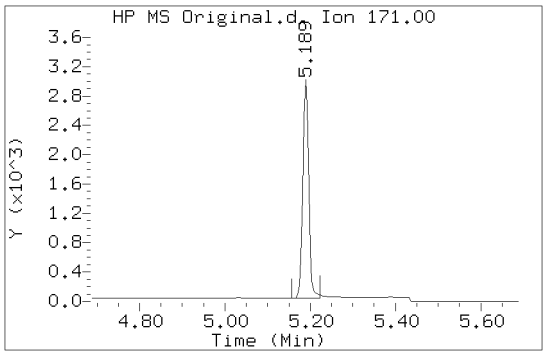

**AFTER**

MASS
172
AREA
8307
HEIGHT
8713
19-Jun-2023
16:53
ALSHS
Se



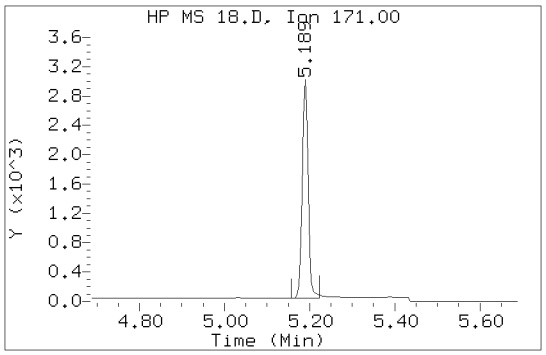

**BEFORE**

MASS
171
AREA
2849
HEIGHT
2977
19-Jun-2023
16:48
ALSHS
Server




**AFTER**

MASS
171
AREA
2849
HEIGHT
2977
19-Jun-2023
16:53
ALSHS
Se



Data File: \\nahstws005\Target\chem\SV6.i\230619.b\19.D Page 1
Report Date: 19-Jun-2023 17:09

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230619.b\19.D
Lab Smp Id: HS23060999-07 Client Smp ID: HS23060999-07
Inj Date : 19-JUN-2023 16:50
Operator : LG Inst ID: SV6.i
Smp Info : HS23060999-07
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230619.b\DXSIM.m
Meth Date : 19-Jun-2023 12:30 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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 | 3.074 | 3.074 | (1.000) | 4469 | 0.10000 | (a) |
| * 45 Naphthalene-d8 | 136 | 4.164 | 4.164 | (1.000) | 16156 | 0.10000 | |
| $ 33 Nitrobenzene-d5 | 82 | 3.337 | 3.251 | (0.801) | 3060 | 0.06234 | 0.06234(Q) |
| * 86 Acenaphthene-d10 | 164 | 5.822 | 5.827 | (1.000) | 8364 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 5.189 | 5.193 | (0.891) | 9478 | 0.11082 | 0.1108 |
| * 126 Phenanthrene-d10 | 188 | 7.266 | 7.261 | (1.000) | 16665 | 0.10000 | |
| * 198 Perylene-d12 | 264 | 11.852 | 11.846 | (1.000) | 10229 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 1.283 | 1.283 | (0.417) | 402 | 0.02651 | 0.02651(Q) |

QC Flag Legend

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

01195925

Data File: \\nahstws005\Target\chem\SV6.i\230619.b\19.D



Date : 19-JUN-2023 16:50

Client ID: HS23060999-07

Instrument: SV6.i

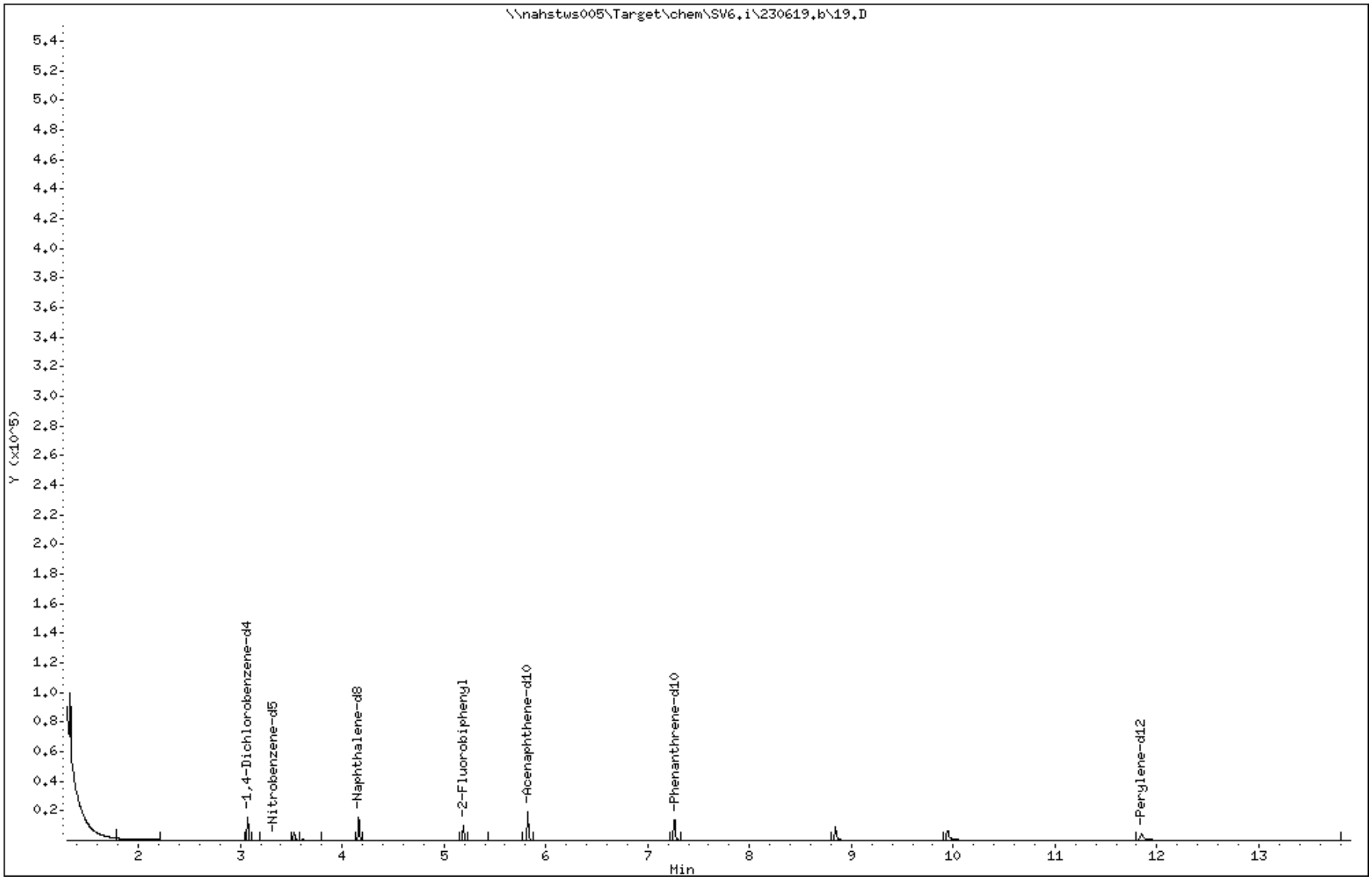
Sample Info: HS23060999-07

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\nahstws005\Target\chem\SV6.i\230619.b\19.D

Date : 19-JUN-2023 16:50

Client ID: HS23060999-07

Instrument: SV6.i

Sample Info: HS23060999-07

Purge Volume: 1000.0

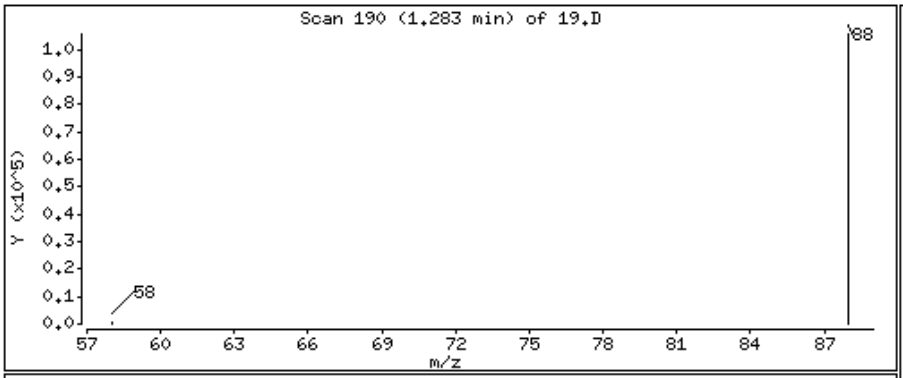
Operator: LG

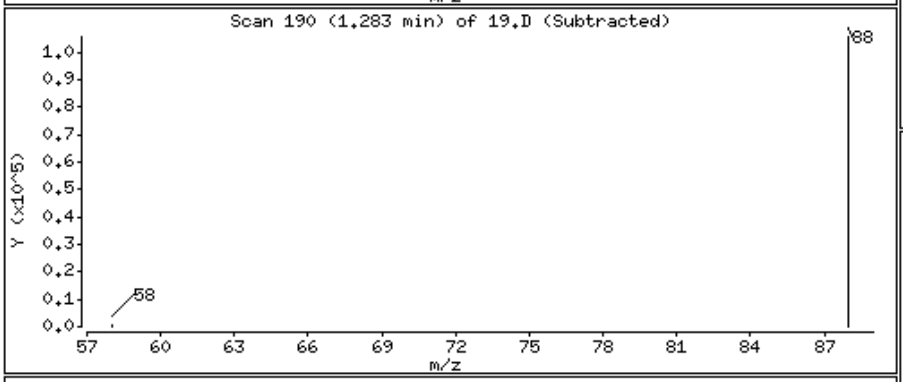
Column phase: RTX-5SIL MS

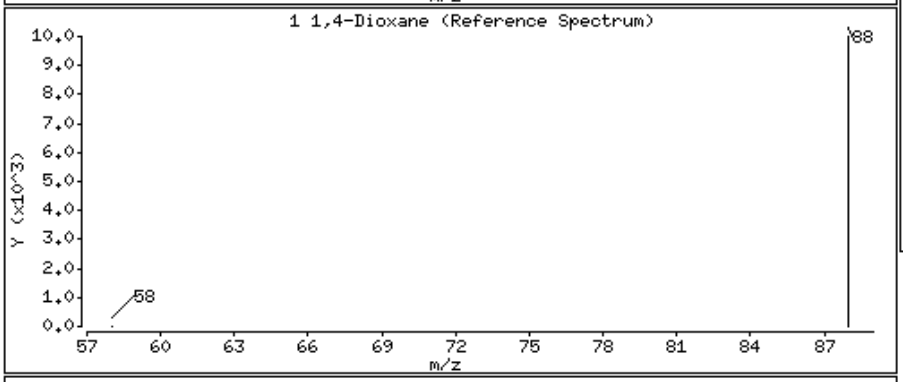
Column diameter: 0.28

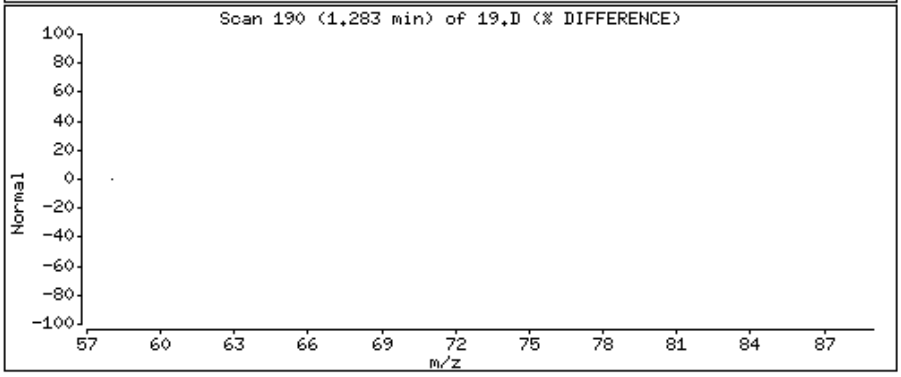
1 1,4-Dioxane

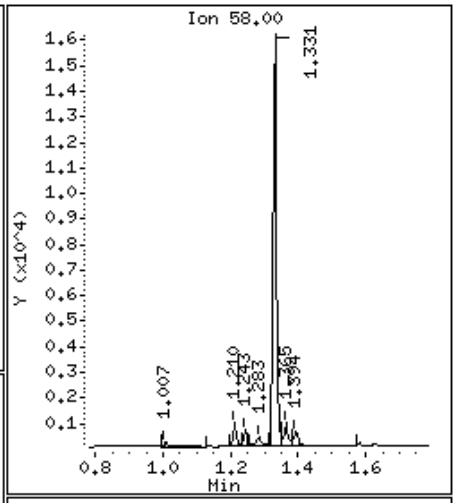
Concentration: 0.02651 ug/L

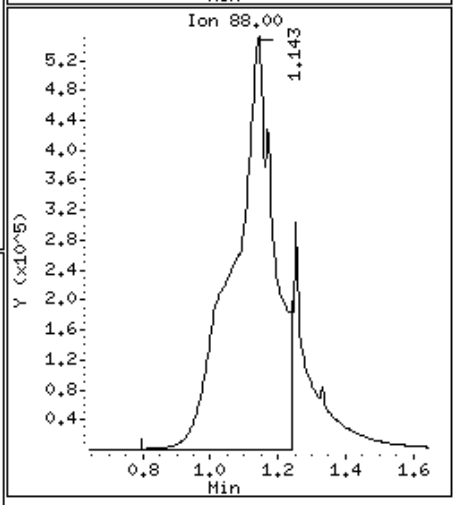


Data File : \\nahstws005\Target\chem\SV6.i\230619.b\19.D
Inj Date  : 19-JUN-2023 16:50
InstruID  : SV6.i
LabSampID : HS23060999-07

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\SV6.i\230619.b\22.D Page 1
Report Date: 19-Jun-2023 18:02

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230619.b\22.D
Lab Smp Id: HS23060999-03 Client Smp ID: HS23060999-03
Inj Date : 19-JUN-2023 17:45
Operator : LG Inst ID: SV6.i
Smp Info : HS23060999-03X1T
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230619.b\DXSIM.m
Meth Date : 19-Jun-2023 12:30 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 22
Dil Factor: 1000.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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

| Name | Value | Description |
|---|---|---|
| DF | 1000.000 | 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 | 3.074 | 3.074 | (1.000) | 3794 | 0.10000 | | (a) |
| * 45 Naphthalene-d8 | 136 | 4.164 | 4.164 | (1.000) | 12395 | 0.10000 | | (M) |
| * 86 Acenaphthene-d10 | 164 | 5.827 | 5.827 | (1.000) | 7269 | 0.10000 | | (M) |
| * 126 Phenanthrene-d10 | 188 | 7.272 | 7.261 | (1.000) | 15094 | 0.10000 | | |
| * 182 Chrysene-d12 | 240 | 9.956 | 9.950 | (1.000) | 9527 | 0.10000 | | (M) |
| * 198 Perylene-d12 | 264 | 11.857 | 11.846 | (1.000) | 8029 | 0.10000 | | (M) |
| 1 1,4-Dioxane | 58 | 1.430 | 1.283 | (0.465) | 1491 | 0.11582 | 115.8 | (M) |

QC Flag Legend

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

01195929

Data File: \\nahstws005\Target\chem\SV6.i\230619.b\22.D



Date : 19-JUN-2023 17:45

Client ID: HS23060999-03

Instrument: SV6.i

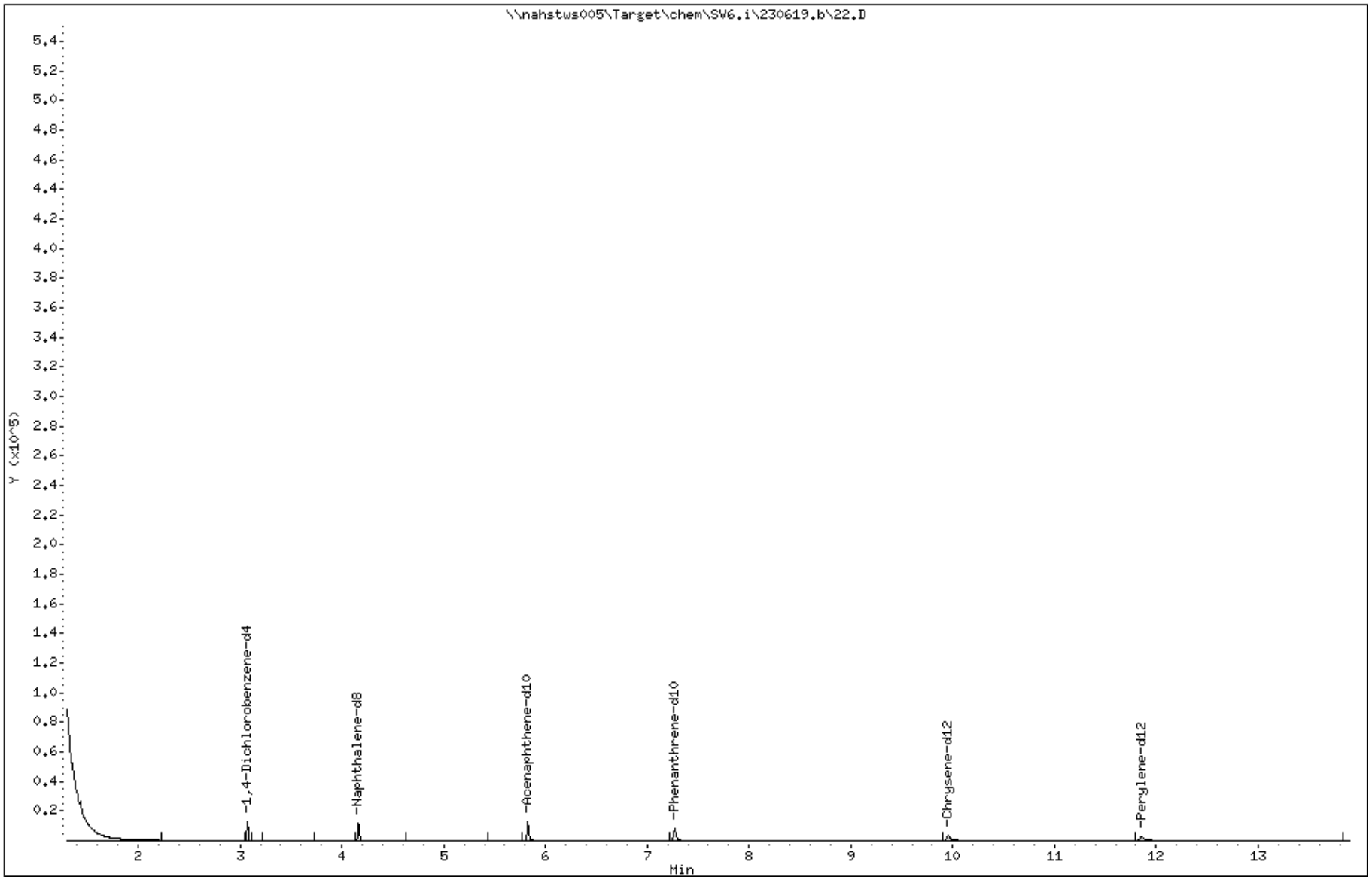
Sample Info: HS23060999-03X1T

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\nahstws005\Target\chem\SV6.i\230619.b\22.D

Date : 19-JUN-2023 17:45

Client ID: HS23060999-03

Instrument: SV6.i

Sample Info: HS23060999-03X1T

Purge Volume: 1000.0

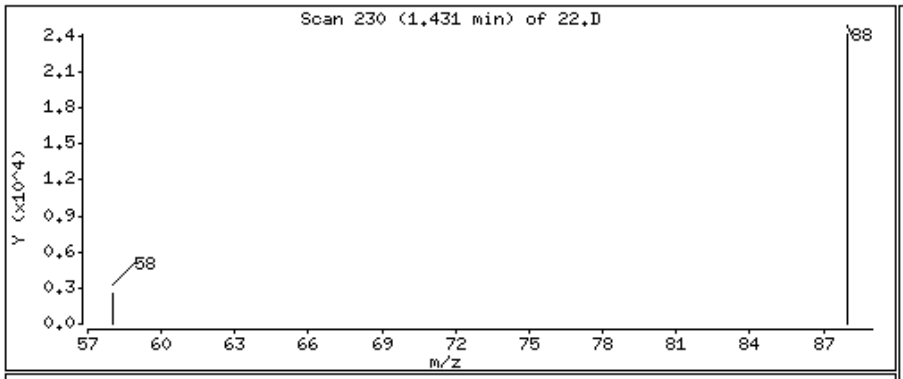
Operator: LG

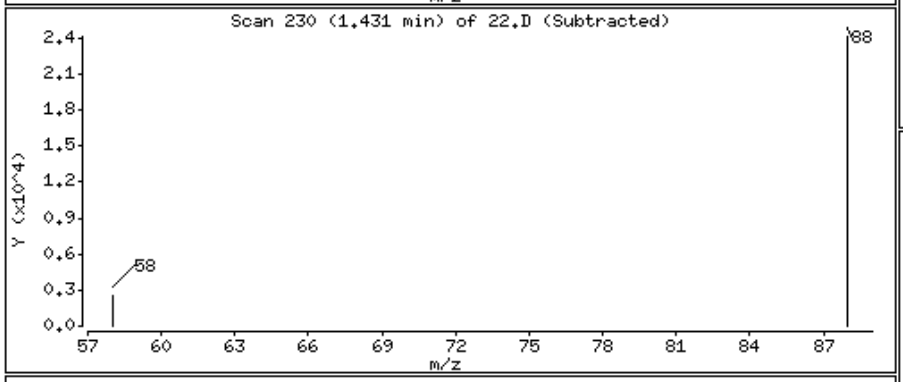
Column phase: RTX-5SIL MS

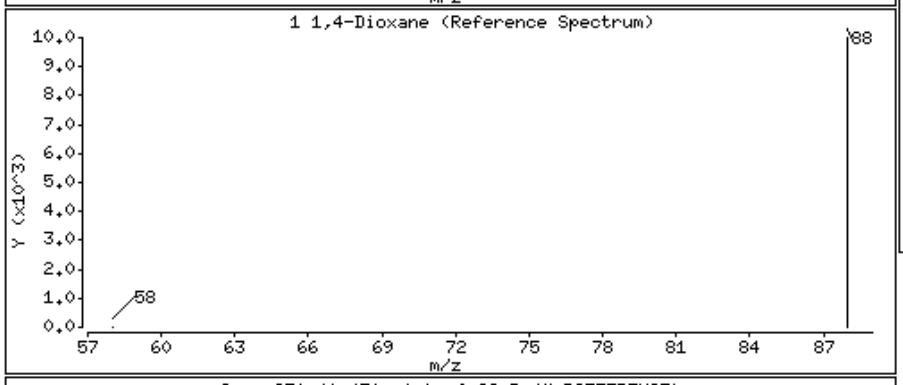
Column diameter: 0.28

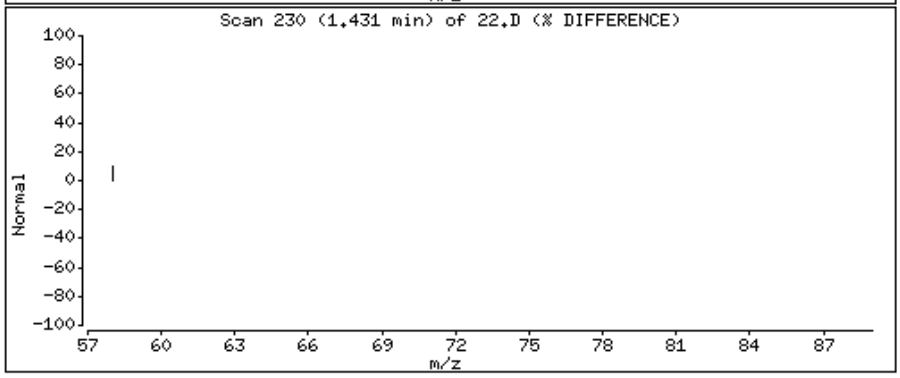
1 1,4-Dioxane

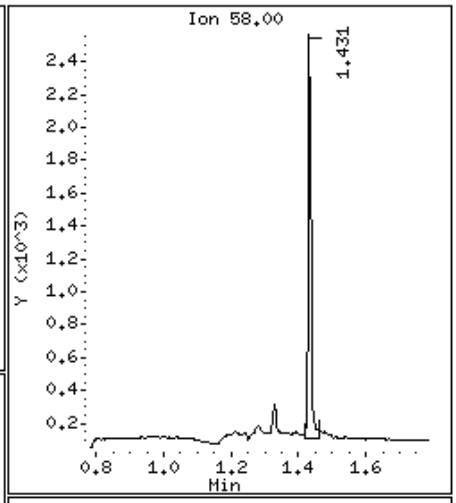
Concentration: 115.8 ug/L

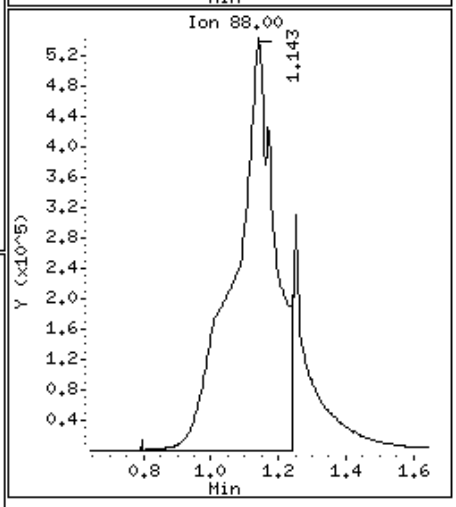


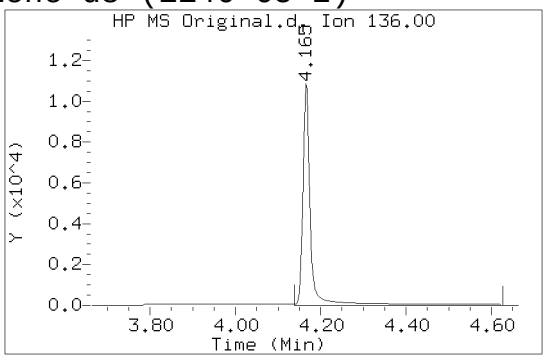
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\22.D
Inj Date : 19-JUN-2023 17:45
InstruID : SV6.i
LabSampID : HS23060999-03

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

Reason Code:

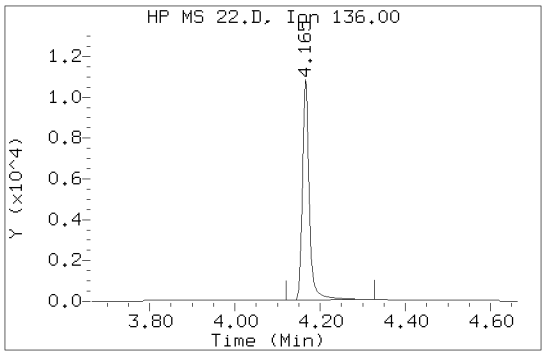
BEFORE

MASS
136
AREA
14396
HEIGHT
10861
19-Jun-2023
18:01
ALSHS
Server



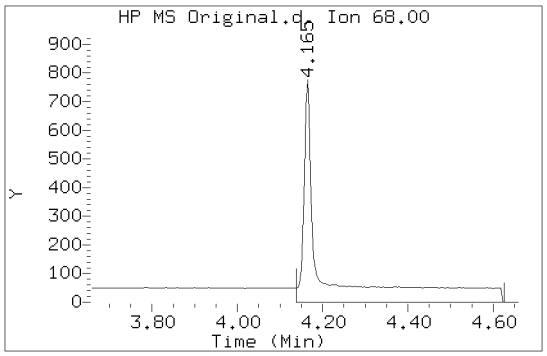

AFTER

MASS
136
AREA
12395
HEIGHT
10798
19-Jun-2023
18:02
ALSHS
Se



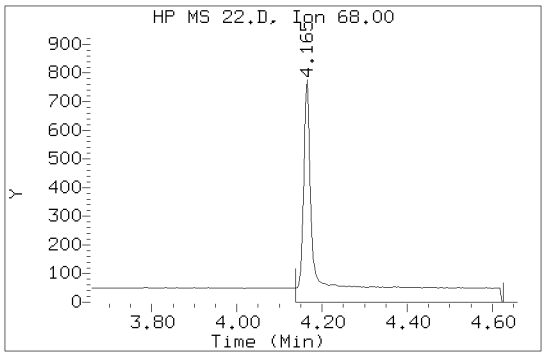

BEFORE

MASS
68
AREA
2285
HEIGHT
776
19-Jun-2023
18:01
ALSHS
Server




AFTER

MASS
68
AREA
2285
HEIGHT
776
19-Jun-2023
18:02
ALSHS
Se

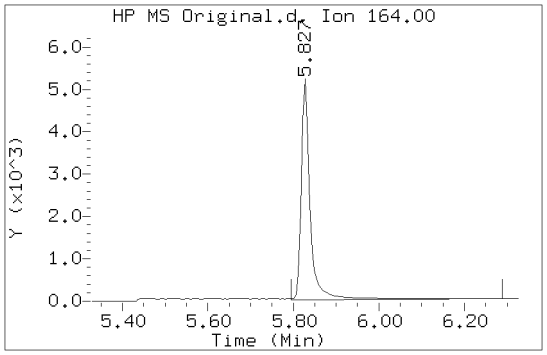



## Acenaphthene-d10 (15067-26-2)

Reason Code:

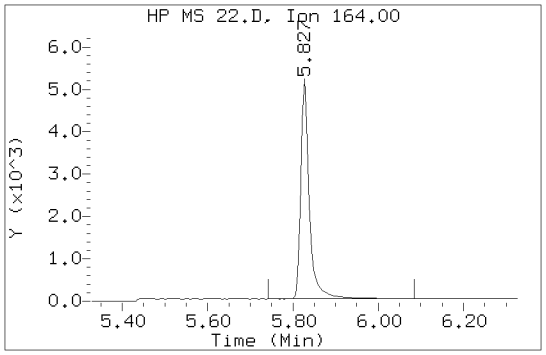
BEFORE

MASS
164
AREA
7828
HEIGHT
5222
19-Jun-2023
18:01
ALSHS
Server



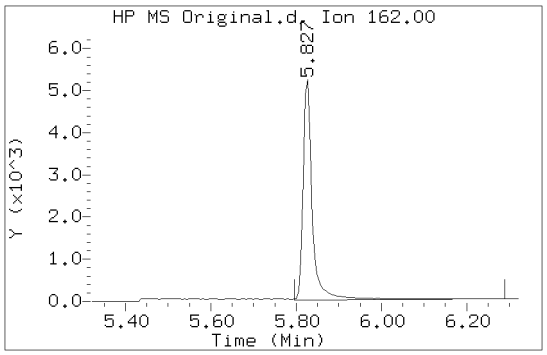

AFTER

MASS
164
AREA
7269
HEIGHT
5192
19-Jun-2023
18:02
ALSHS
Se



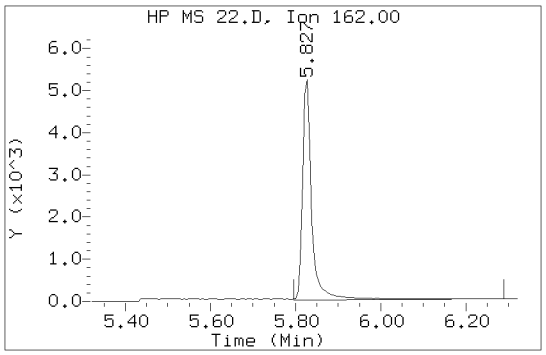

BEFORE

MASS
162
AREA
7993
HEIGHT
5232
19-Jun-2023
18:01
ALSHS
Server




AFTER

MASS
162
AREA
7993
HEIGHT
5232
19-Jun-2023
18:02
ALSHS
Se



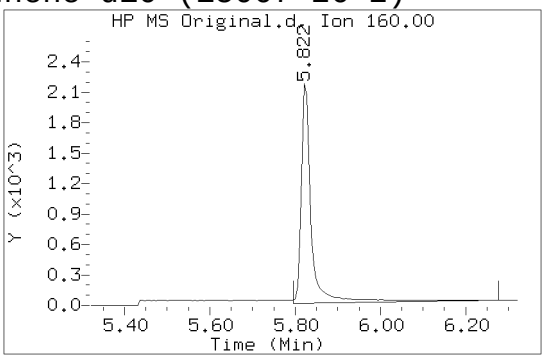
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\22.D
Inj Date : 19-JUN-2023 17:45
InstruID : SV6.i
LabSampID : HS23060999-03

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

Reason Code:

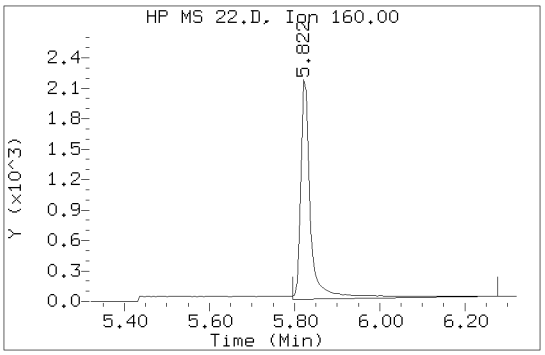
BEFORE

MASS
160
AREA
3537
HEIGHT
2162
19-Jun-2023
18:01
ALSHS
Server




AFTER

MASS
160
AREA
3537
HEIGHT
2162
19-Jun-2023
18:02
ALSHS
Se

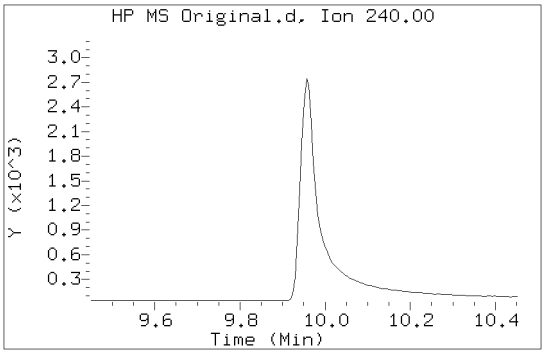



## Chrysene-d12 (1719-03-5)

Reason Code:

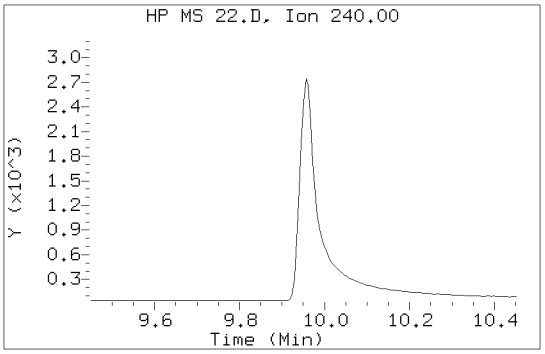
BEFORE

MASS
240
AREA
0
HEIGHT
0
19-Jun-2023
18:01
ALSHS
Server



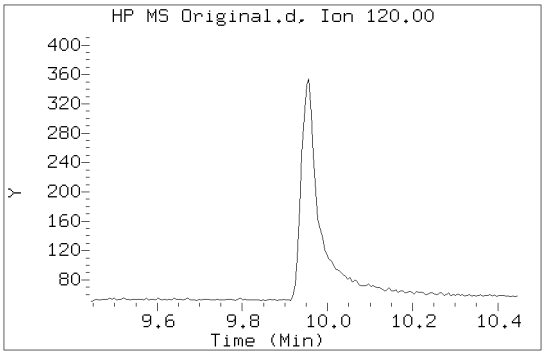

AFTER

MASS
240
AREA
9527
HEIGHT
2686
19-Jun-2023
18:02
ALSHS
Se



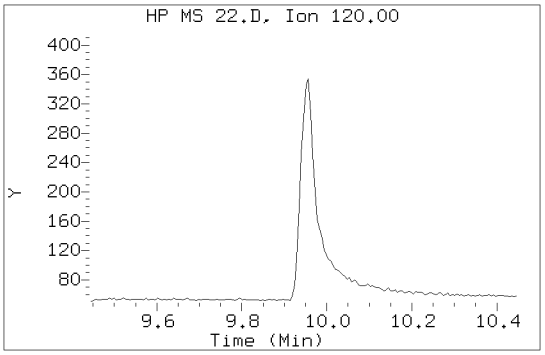

BEFORE

MASS
120
AREA
0
HEIGHT
0
19-Jun-2023
18:01
ALSHS
Server



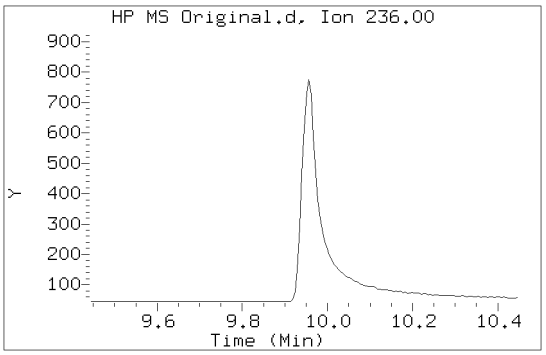

AFTER

MASS
120
AREA
1070
HEIGHT
300
19-Jun-2023
18:02
ALSHS
Se



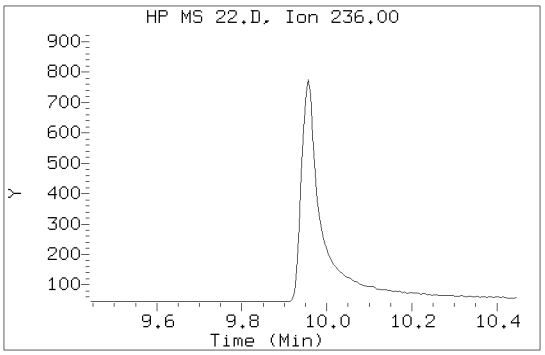

BEFORE

MASS
236
AREA
0
HEIGHT
0
19-Jun-2023
18:01
ALSHS
Server




AFTER

MASS
236
AREA
2553
HEIGHT
725
19-Jun-2023
18:02
ALSHS
Se



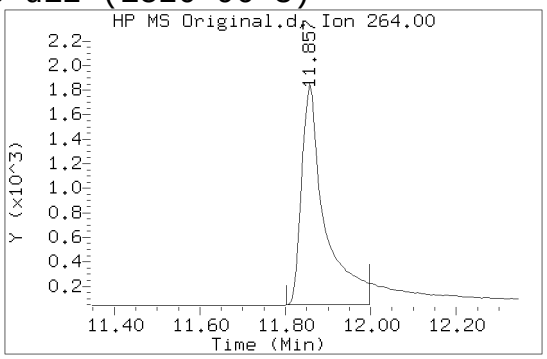
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\22.D
Inj Date : 19-JUN-2023 17:45
InstruID : SV6.i
LabSampID : HS23060999-03

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

Reason Code:

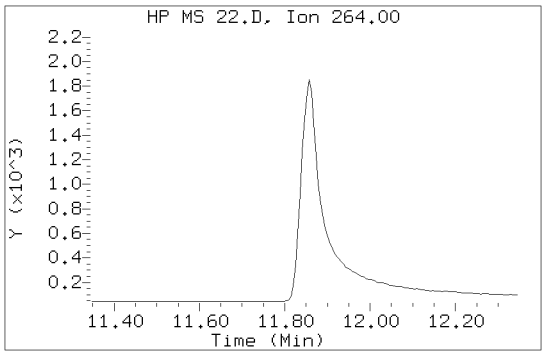
**BEFORE**

MASS
264
AREA
6767
HEIGHT
1803
19-Jun-2023
18:01
ALSHS
Server



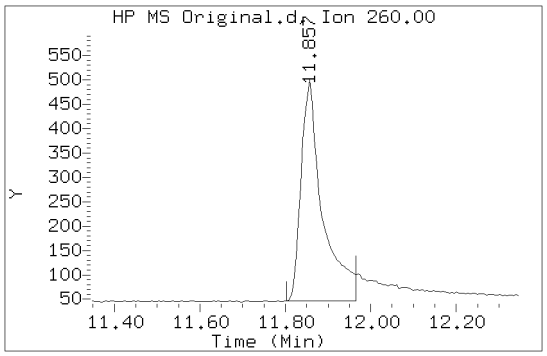

**AFTER**

MASS
264
AREA
8029
HEIGHT
1798
19-Jun-2023
18:02
ALSHS
Se



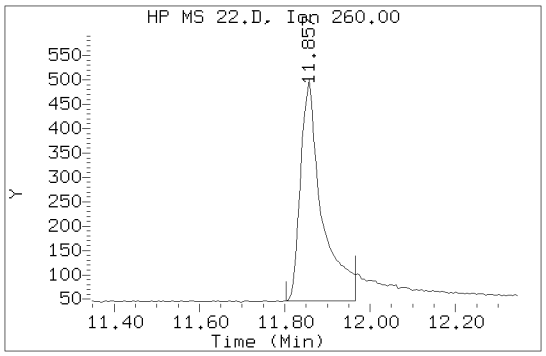

**BEFORE**

MASS
260
AREA
1576
HEIGHT
454
19-Jun-2023
18:01
ALSHS
Server



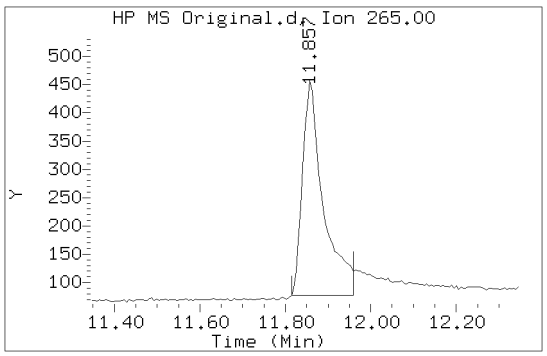

**AFTER**

MASS
260
AREA
1576
HEIGHT
454
19-Jun-2023
18:02
ALSHS
Se



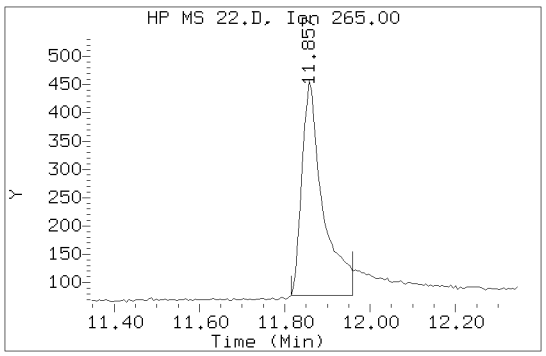

**BEFORE**

MASS
265
AREA
1286
HEIGHT
379
19-Jun-2023
18:01
ALSHS
Server




**AFTER**

MASS
265
AREA
1286
HEIGHT
379
19-Jun-2023
18:02
ALSHS
Se

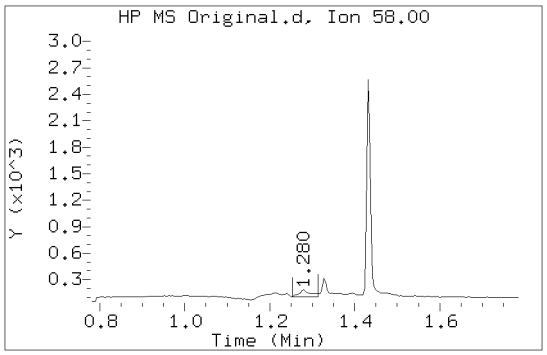



## 1,4-Dioxane ()

Reason Code:

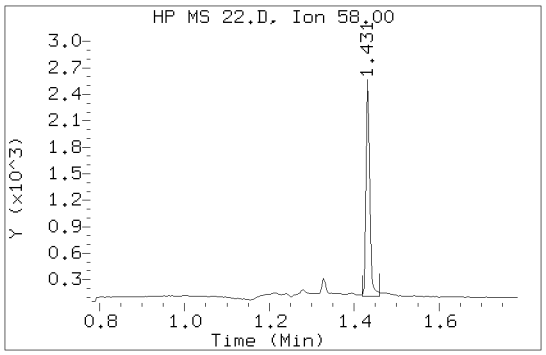
**BEFORE**

MASS
58
AREA
148
HEIGHT
79
19-Jun-2023
18:01
ALSHS
Server




**AFTER**

MASS
58
AREA
1491
HEIGHT
2456
19-Jun-2023
18:02
ALSHS
Se



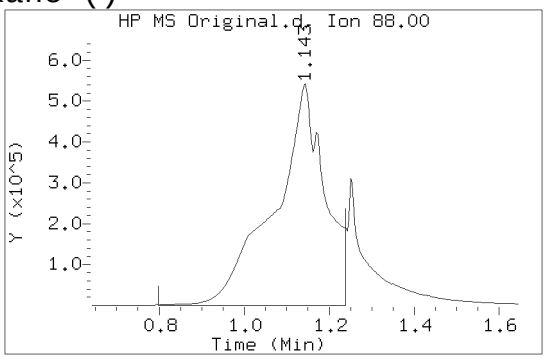
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\22.D
Inj Date : 19-JUN-2023 17:45
InstruID : SV6.i
LabSampID : HS23060999-03

1,4-Dioxane ()

Reason Code:

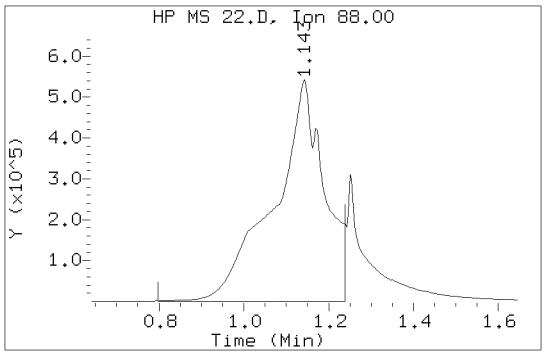
BEFORE

MASS
88
AREA
4451658
HEIGHT
541810
19-Jun-2023
18:01
ALSHS
Server




AFTER

MASS
88
AREA
4451658
HEIGHT
541810
19-Jun-2023
18:02
ALSHS
Se



Data File: \\NAHSTWS005\Target\chem\SV6.i\230619.b\23.D Page 1
Report Date: 23-Jun-2023 17:51

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230619.b\23.D
Lab Smp Id: HS23060999-04 Client Smp ID: HS23060999-04
Inj Date : 19-JUN-2023 18:03
Operator : LG Inst ID: SV6.i
Smp Info : HS23060999-04X1H
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230619.b\DXSIM.m
Meth Date : 20-Jun-2023 09:42 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 23
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

| Name | Value | Description |
|---|---|---|
| DF | 100.000 | 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 | 3.074 | 3.074 | (1.000) | 4111 | 0.10000 | (a) |
| * 45 Naphthalene-d8 | 136 | 4.164 | 4.164 | (1.000) | 15112 | 0.10000 | |
| * 86 Acenaphthene-d10 | 164 | 5.827 | 5.825 | (1.000) | 8218 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 5.200 | 5.196 | (0.892) | 849 | 0.01010 | 1.010(QR) |
| * 126 Phenanthrene-d10 | 188 | 7.272 | 7.270 | (1.000) | 15292 | 0.10000 | |
| * 198 Perylene-d12 | 264 | 11.857 | 11.855 | (1.000) | 6409 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 1.427 | 1.434 | (0.464) | 1414 | 0.10137 | 10.14(M) |

QC Flag Legend

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

01195936

Data File: \\NAHSTWS005\Target\chem\SV6.i\230619.b\23.D



Date : 19-JUN-2023 18:03

Client ID: HS23060999-04

Instrument: SV6.i

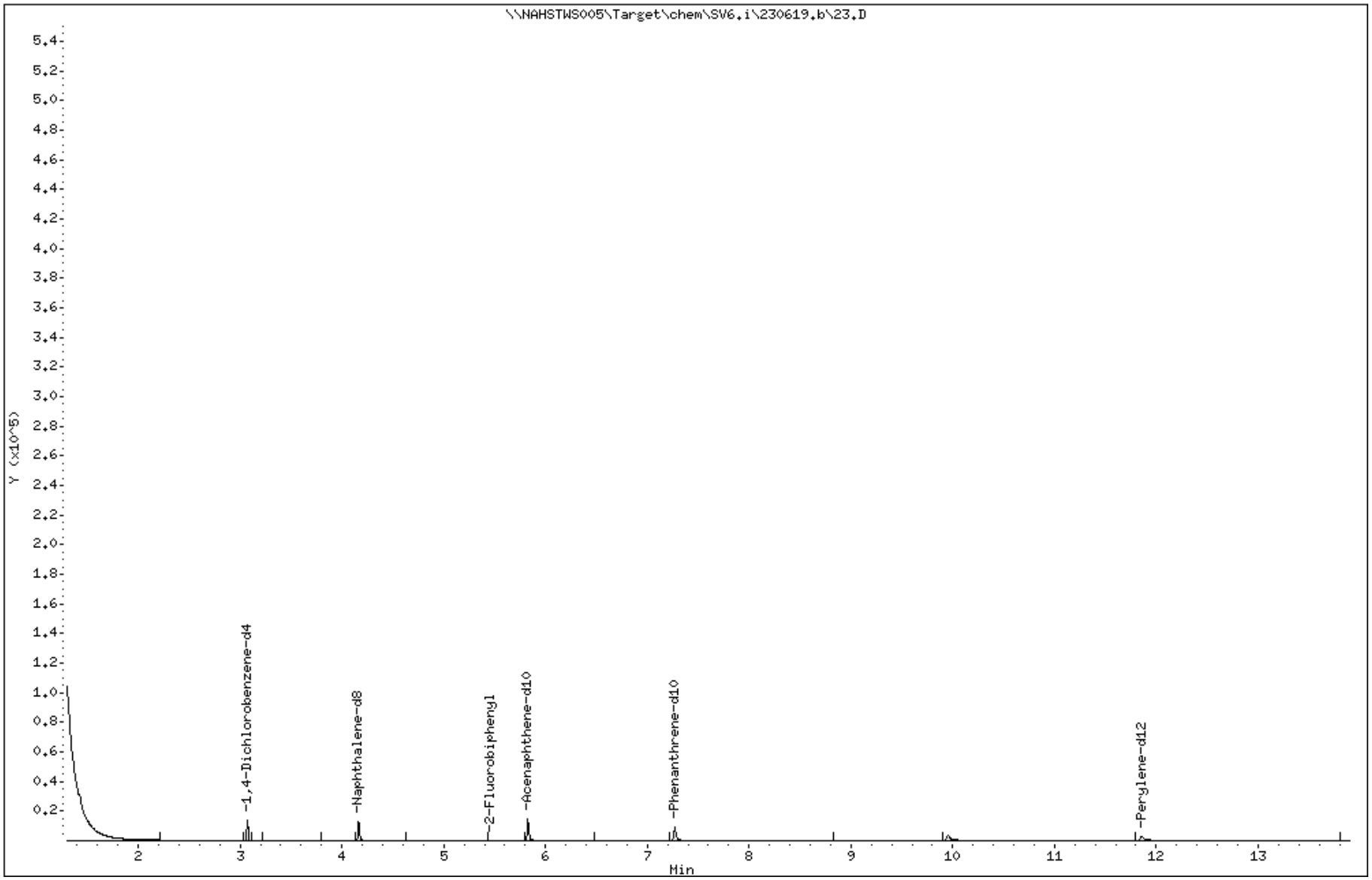
Sample Info: HS23060999-04X1H

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\230619.b\23.D



Date : 19-JUN-2023 18:03

Client ID: HS23060999-04

Instrument: SV6.i

Sample Info: HS23060999-04X1H

Purge Volume: 1000.0

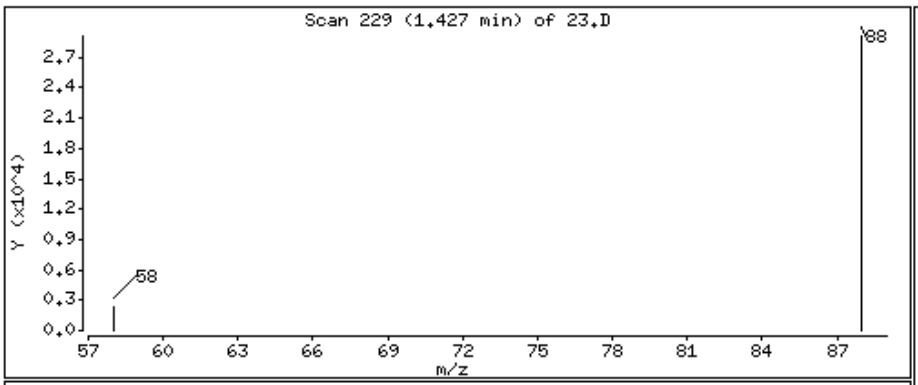
Operator: LG

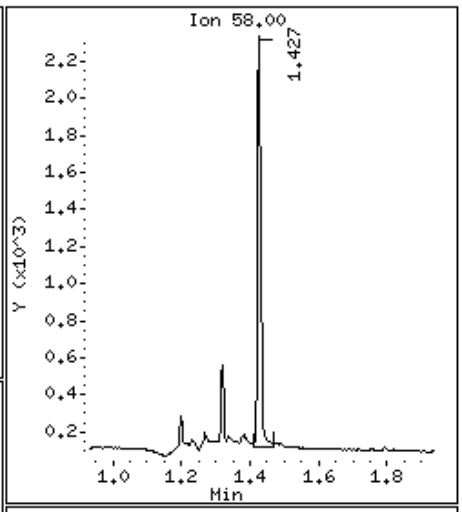
Column phase: RTX-5SIL MS

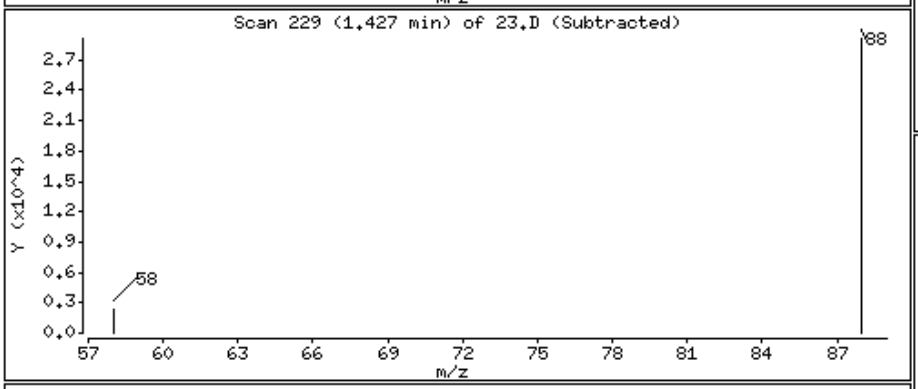
Column diameter: 0.28

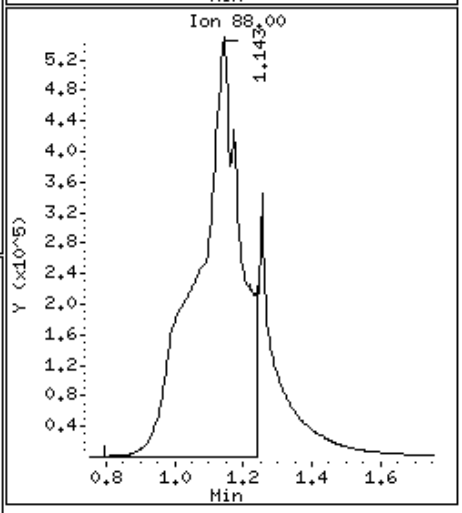
1 1,4-Dioxane

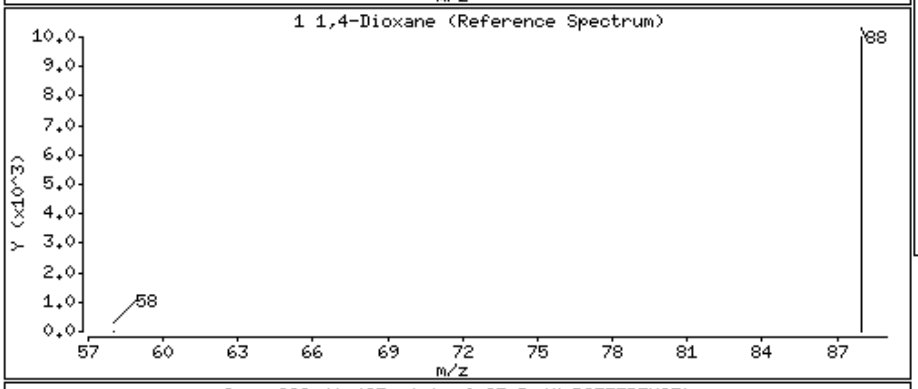
Concentration: 10.14 ug/L

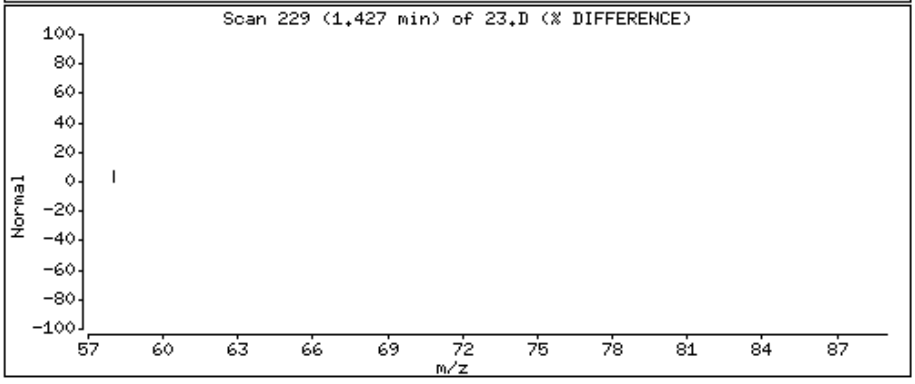


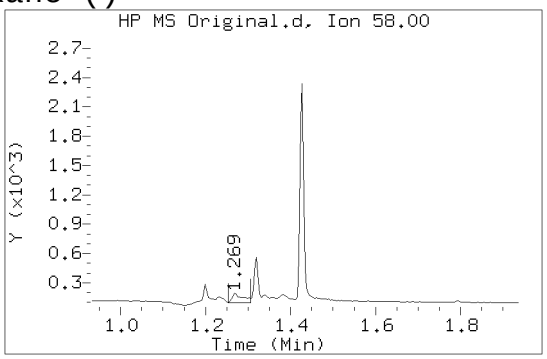
Data File : \\NAHSTWS005\Target\chem\SV6.i\230619.b\23.D
Inj Date : 19-JUN-2023 18:03
InstruID : SV6.i
LabSampID : HS23060999-04

1,4-Dioxane ()

Reason Code:

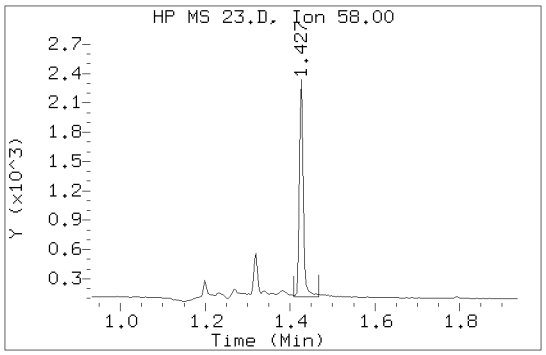
BEFORE

MASS
58
AREA
163
HEIGHT
98
19-Jun-2023
18:17
ALSHS
Server



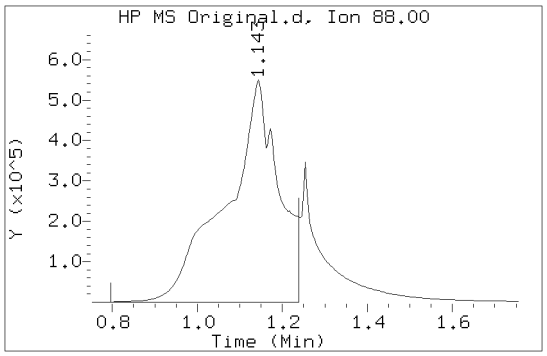

AFTER

MASS
58
AREA
1414
HEIGHT
2223
23-Jun-2023
17:51
ALSHS
Ser



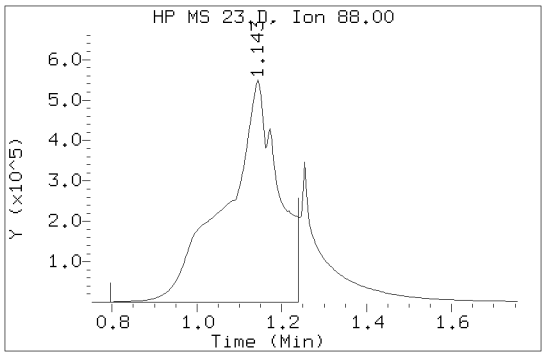

BEFORE

MASS
88
AREA
4701765
HEIGHT
549314
19-Jun-2023
18:17
ALSHS
Server




AFTER

MASS
88
AREA
4701765
HEIGHT
549314
23-Jun-2023
17:51
ALSHS
Ser



Data File: \\nahstws005\Target\chem\SV6.i\230619.b\24.D Page 1
Report Date: 20-Jun-2023 09:42

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230619.b\24.D
Lab Smp Id: 14DXCCV-CLOSING Client Smp ID: 14DXCCV-CLOSING
Inj Date : 19-JUN-2023 18:21
Operator : LG Inst ID: SV6.i
Smp Info : 14DXCCV-CLOSING
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230619.b\DXSIM.m
Meth Date : 20-Jun-2023 09:42 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 24 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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 | 3.074 | 3.074 | (1.000) | 4705 | 0.10000 | (a) |
| * 45 Naphthalene-d8 | 136 | 4.164 | 4.164 | (1.000) | 15368 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.530 | 3.530 | (0.848) | 3637 | 0.08000 | 0.07789(QM) |
| * 86 Acenaphthene-d10 | 164 | 5.825 | 5.825 | (1.000) | 9068 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 5.196 | 5.196 | (0.892) | 7615 | 0.08000 | 0.08212(M) |
| * 126 Phenanthrene-d10 | 188 | 7.270 | 7.270 | (1.000) | 18393 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 9.954 | 9.954 | (1.000) | 12032 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.851 | 8.851 | (0.889) | 7499 | 0.08000 | 0.08448(M) |
| * 198 Perylene-d12 | 264 | 11.855 | 11.855 | (1.000) | 8355 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 1.434 | 1.434 | (0.467) | 1324 | 0.08000 | 0.08294(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.

01195940

Data File: \\nahstws005\Target\chem\SV6.i\230619.b\24.D



Date : 19-JUN-2023 18:21

Client ID: 14DXCCV-CLOSING

Instrument: SV6.i

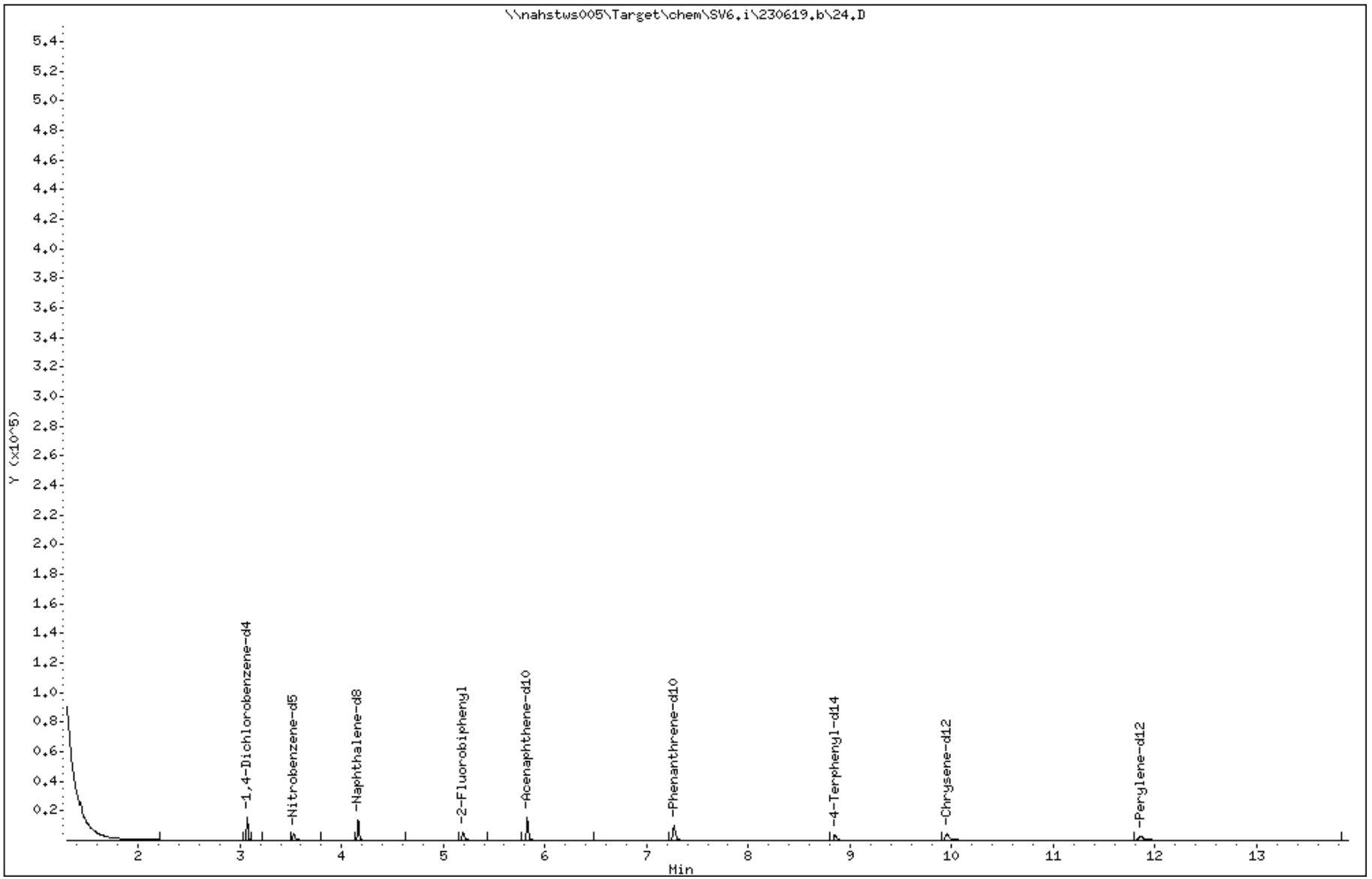
Sample Info: 14DXCCV-CLOSING

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



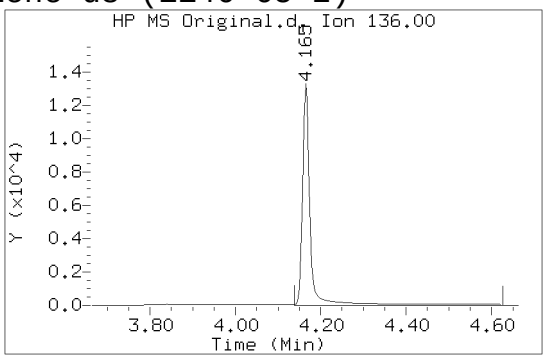
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\24.D
Inj Date : 19-JUN-2023 18:21
InstruID : SV6.i
LabSampID : 14DXCCV-CLOSING

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

Reason Code:

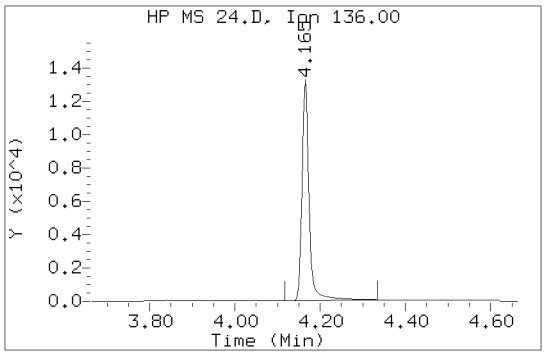
**BEFORE**

MASS
136
AREA
17535
HEIGHT
13304
19-Jun-2023
18:36
ALSHS
Server



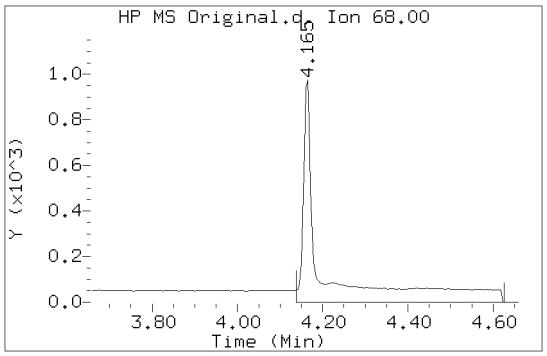

**AFTER**

MASS
136
AREA
15368
HEIGHT
13239
20-Jun-2023
09:42
ALSHS
Se



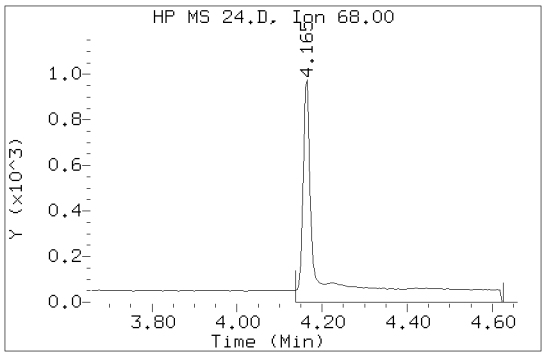

**BEFORE**

MASS
68
AREA
2787
HEIGHT
975
19-Jun-2023
18:36
ALSHS
Server




**AFTER**

MASS
68
AREA
2787
HEIGHT
975
20-Jun-2023
09:42
ALSHS
Se

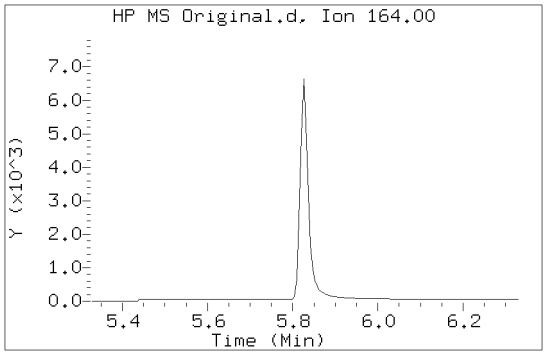



## Acenaphthene-d10 (15067-26-2)

Reason Code:

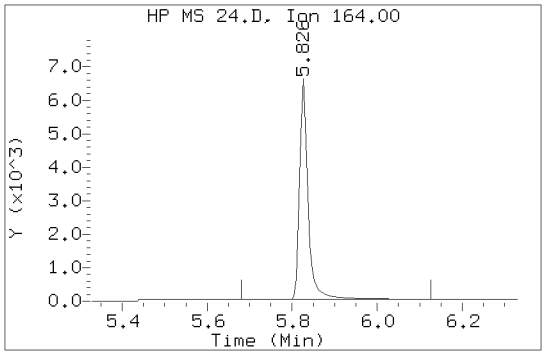
**BEFORE**

MASS
164
AREA
0
HEIGHT
0
19-Jun-2023
18:36
ALSHS
Server



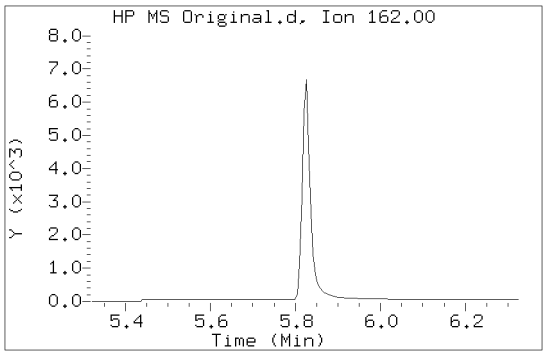

**AFTER**

MASS
164
AREA
9068
HEIGHT
6584
20-Jun-2023
09:42
ALSHS
Se



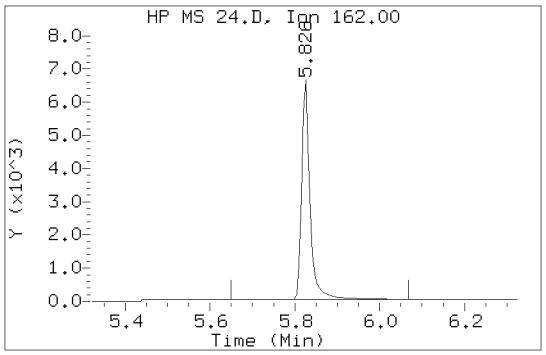

**BEFORE**

MASS
162
AREA
0
HEIGHT
0
19-Jun-2023
18:36
ALSHS
Server




**AFTER**

MASS
162
AREA
9103
HEIGHT
6617
20-Jun-2023
09:42
ALSHS
Se



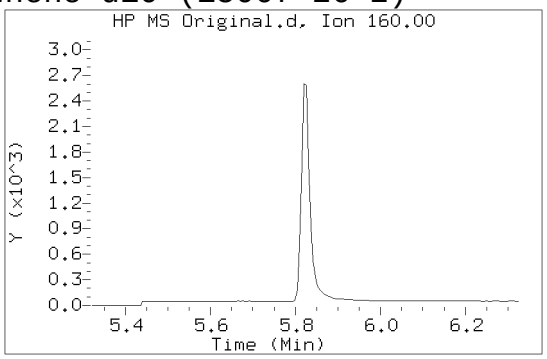
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\24.D
Inj Date : 19-JUN-2023 18:21
InstruID : SV6.i
LabSampID : 14DXCCV-CLOSING

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

Reason Code:

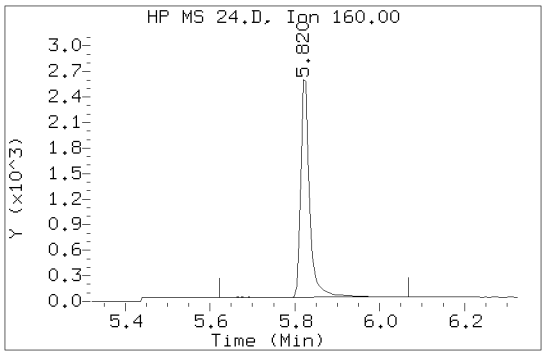
**BEFORE**

MASS
160
AREA
0
HEIGHT
0
19-Jun-2023
18:36
ALSHS
Server




**AFTER**

MASS
160
AREA
3754
HEIGHT
2553
20-Jun-2023
09:42
ALSHS
Se

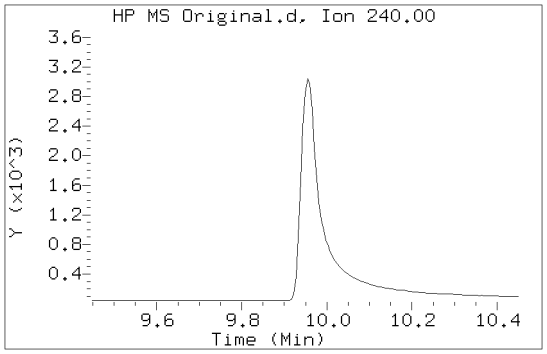



## Chrysene-d12 (1719-03-5)

Reason Code:

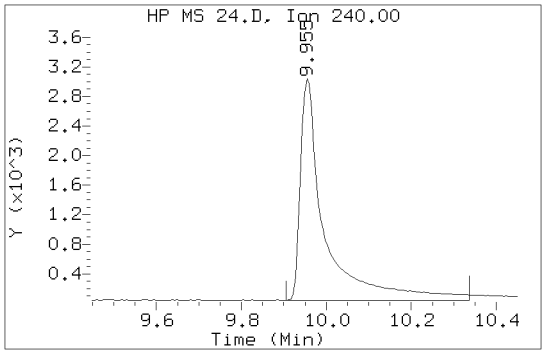
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
19-Jun-2023
18:36
ALSHS
Server



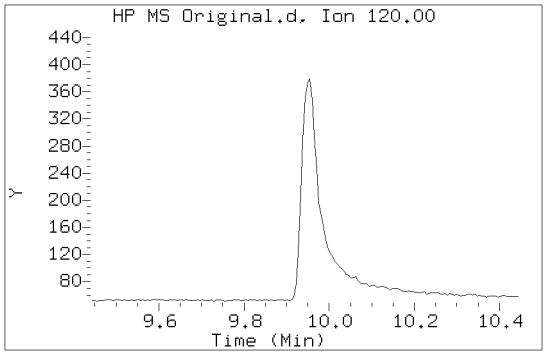

**AFTER**

MASS
240
AREA
12032
HEIGHT
2999
20-Jun-2023
09:42
ALSHS
Se



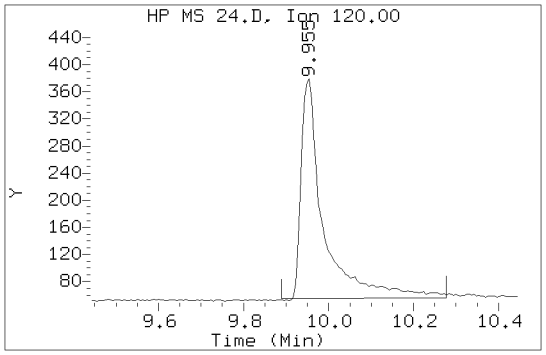

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
19-Jun-2023
18:36
ALSHS
Server



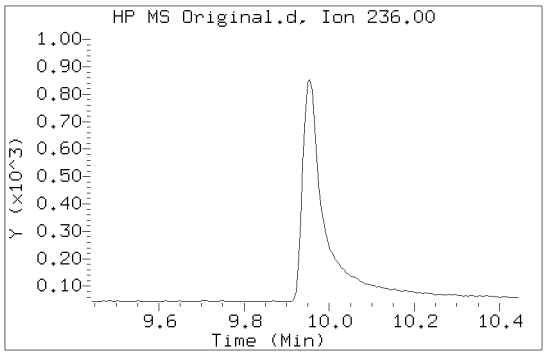

**AFTER**

MASS
120
AREA
1183
HEIGHT
323
20-Jun-2023
09:42
ALSHS
Se



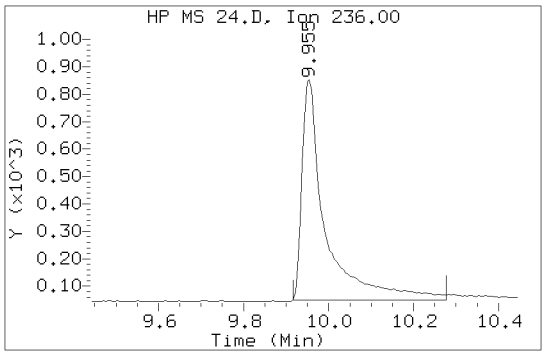

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
19-Jun-2023
18:36
ALSHS
Server




**AFTER**

MASS
236
AREA
3096
HEIGHT
804
20-Jun-2023
09:42
ALSHS
Se



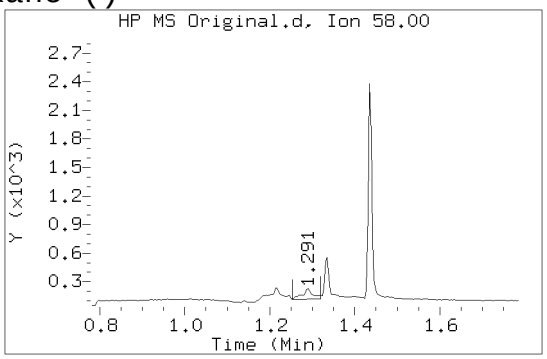
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\24.D
Inj Date : 19-JUN-2023 18:21
InstruID : SV6.i
LabSampID : 14DXCCV-CLOSING

## 1,4-Dioxane ()

Reason Code:

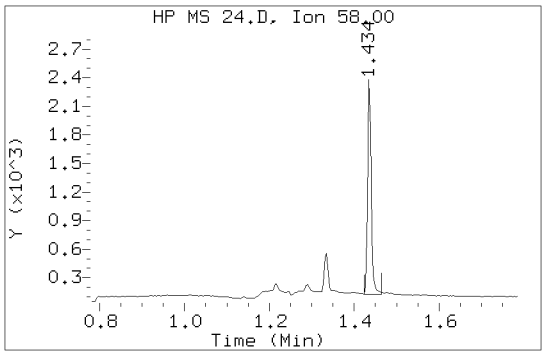
BEFORE

MASS
58
AREA
207
HEIGHT
111
19-Jun-2023
18:36
ALSHS
Server



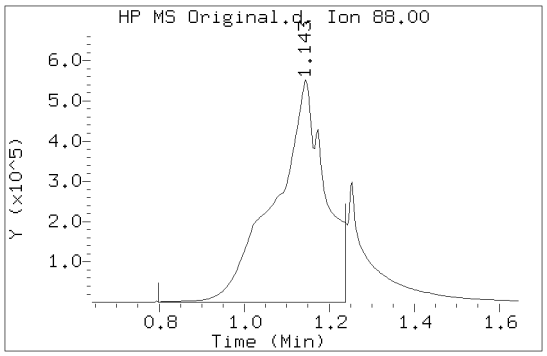

AFTER

MASS
58
AREA
1324
HEIGHT
2255
20-Jun-2023
09:42
ALSHS
Se



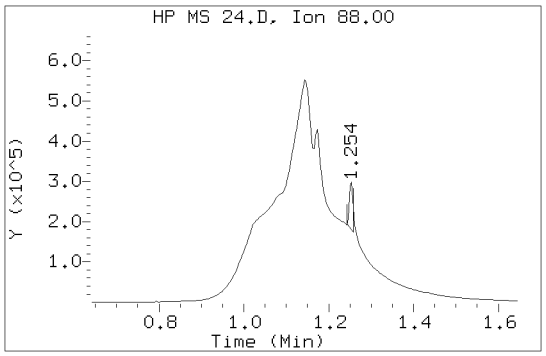

BEFORE

MASS
88
AREA
4485399
HEIGHT
551673
19-Jun-2023
18:36
ALSHS
Server




AFTER

MASS
88
AREA
66684
HEIGHT
120434
20-Jun-2023
09:42
ALSHS
Se

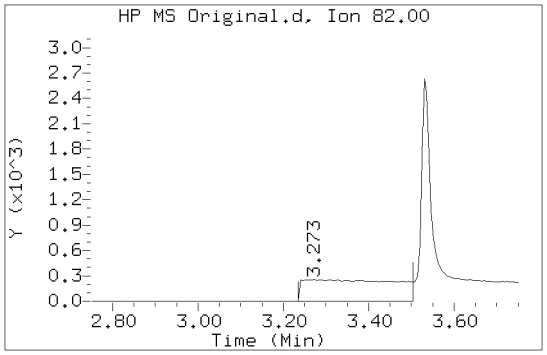



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

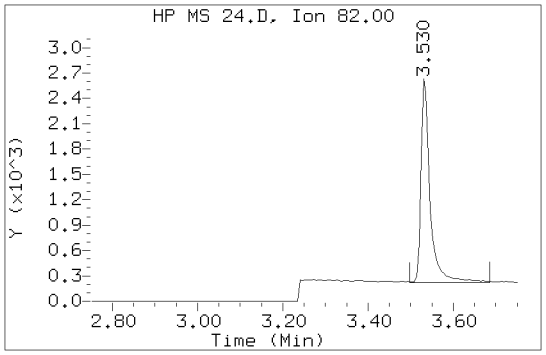
BEFORE

MASS
82
AREA
3860
HEIGHT
258
19-Jun-2023
18:36
ALSHS
Server



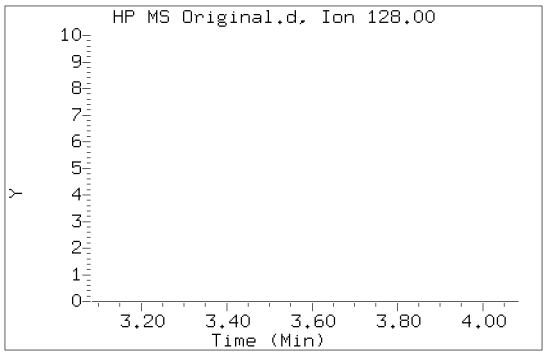

AFTER

MASS
82
AREA
3637
HEIGHT
2412
20-Jun-2023
09:42
ALSHS
Se



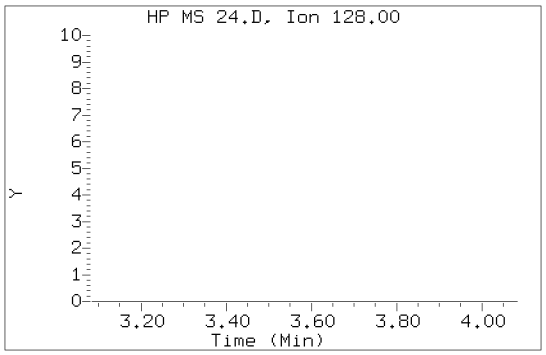

BEFORE

MASS
128
AREA
0
HEIGHT
0
19-Jun-2023
18:36
ALSHS
Server




AFTER

MASS
128
AREA
0
HEIGHT
0
20-Jun-2023
09:42
ALSHS
Se



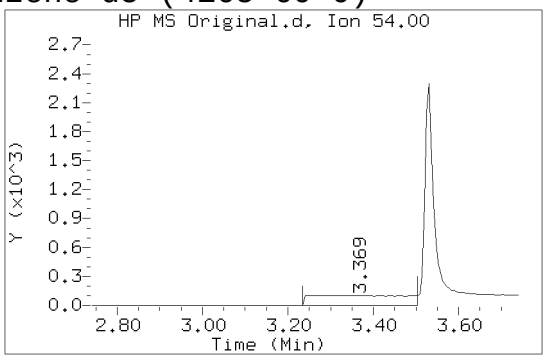
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\24.D
Inj Date : 19-JUN-2023 18:21
InstruID : SV6.i
LabSampID : 14DXCCV-CLOSING

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

Reason Code:

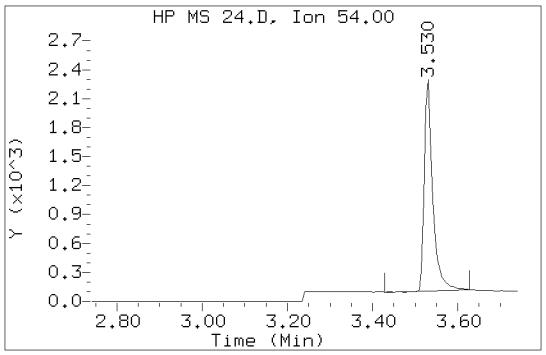
BEFORE

MASS
54
AREA
1584
HEIGHT
102
19-Jun-2023
18:36
ALSHS
Server




AFTER

MASS
54
AREA
3010
HEIGHT
2187
20-Jun-2023
09:42
ALSHS
Se

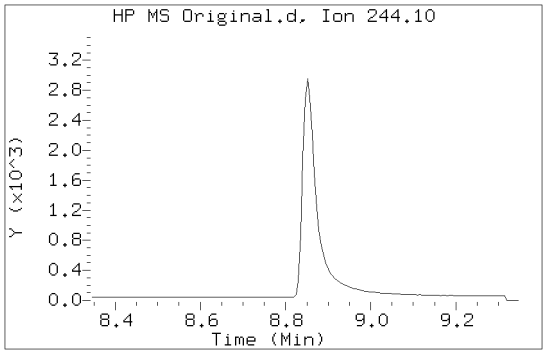



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

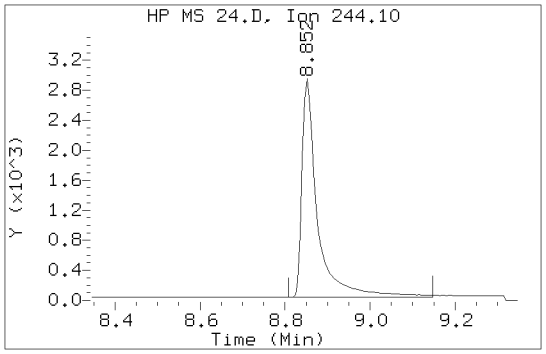
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
19-Jun-2023
18:36
ALSHS
Server



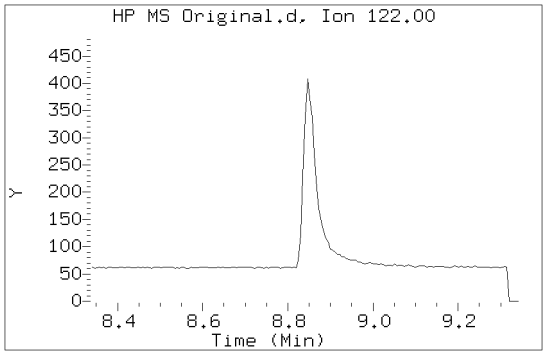

AFTER

MASS
244.1
AREA
7499
HEIGHT
2915
20-Jun-2023
09:42
ALSHS
Se



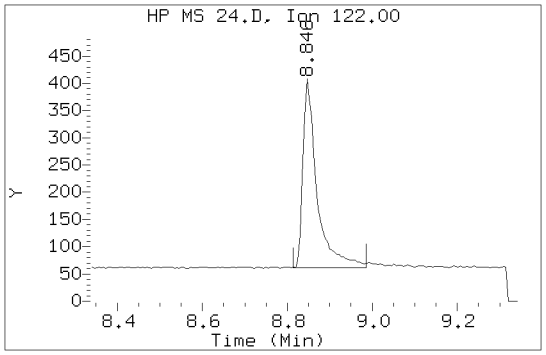

BEFORE

MASS
122
AREA
0
HEIGHT
0
19-Jun-2023
18:36
ALSHS
Server



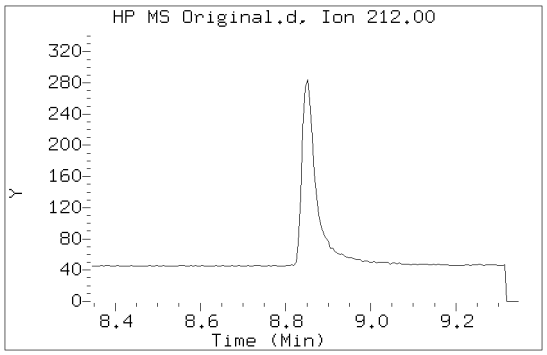

AFTER

MASS
122
AREA
802
HEIGHT
347
20-Jun-2023
09:42
ALSHS
Se



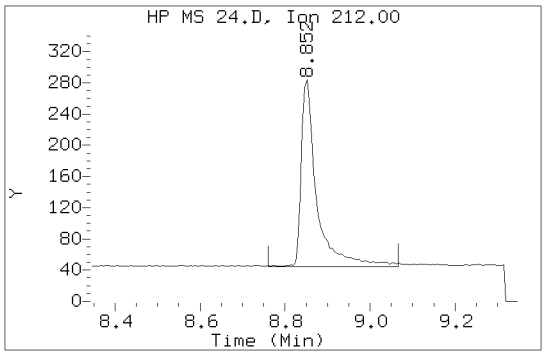

BEFORE

MASS
212
AREA
0
HEIGHT
0
19-Jun-2023
18:36
ALSHS
Server




AFTER

MASS
212
AREA
619
HEIGHT
240
20-Jun-2023
09:42
ALSHS
Se



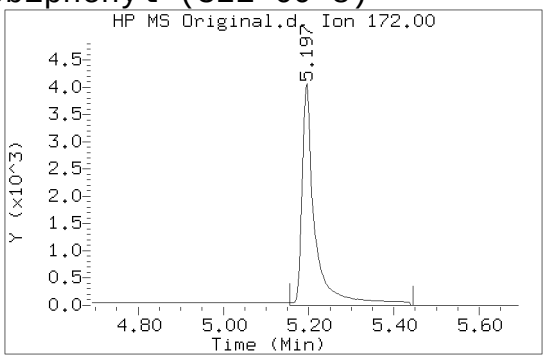
Data File : \\nahstws005\Target\chem\SV6.i\230619.b\24.D
Inj Date : 19-JUN-2023 18:21
InstruID : SV6.i
LabSampID : 14DXCCV-CLOSING

2-Fluorobiphenyl (321-60-8)

Reason Code:

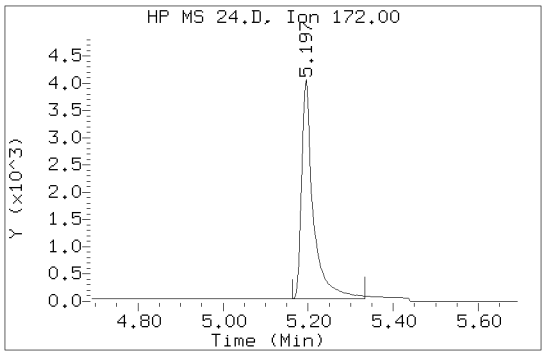
BEFORE

MASS
172
AREA
8649
HEIGHT
4065
19-Jun-2023
18:36
ALSHS
Server



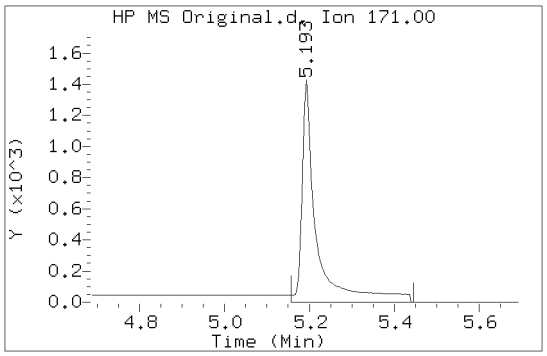

AFTER

MASS
172
AREA
7615
HEIGHT
4017
20-Jun-2023
09:42
ALSHS
Se



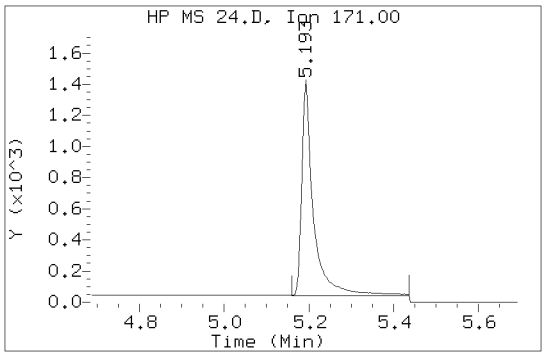

BEFORE

MASS
171
AREA
3408
HEIGHT
1428
19-Jun-2023
18:36
ALSHS
Server




AFTER

MASS
171
AREA
2706
HEIGHT
1388
20-Jun-2023
09:42
ALSHS
Se



# HS23060999 - ME - HG_W_DODICP_W_DOD

ALS WO# HS23060999

**ALS Houston, US**

Date: 29-Jun-23

## Form 11 - INTERNAL STANDARD ASSOCIATION

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Instrument:ICPMS06

| Mass | Analyte | Assoc Int Standard 1 | Assoc Int Standard 2 | Mode |
|---|---|---|---|---|
| 9 | Beryllium | Lithium | | Ar |
| 11 | Boron | Lithium | | Ar |
| 23 | Sodium | Germanium | | ArHe |
| 24 | Magnesium | Germanium | | ArHe |
| 27 | Aluminum | Germanium | | ArHe |
| 39 | Potassium | Germanium | | ArHe |
| 44 | Calcium | Germanium | | Ar |
| 47 | Titanium | Germanium | | Ar |
| 51 | Vanadium | Germanium | | ArHe |
| 52 | Chromium | Germanium | | ArHe |
| 55 | Manganese | Germanium | | ArHe |
| 56 | Iron | Germanium | | ArHe |
| 59 | Cobalt | Germanium | | ArHe |
| 60 | Nickel | Germanium | | ArHe |
| 63 | Copper | Germanium | | ArHe |
| 66 | Zinc | Germanium | | ArHe |
| 75 | Arsenic | Germanium | | ArHe |
| 82 | Selenium | Germanium | | Ar |
| 88 | Strontium | Indium | | Ar |
| 95 | Molybdenum | Indium | | Ar |
| 105 | Palladium | Germanium | | Ar |
| 107 | Silver | Indium | | Ar |
| 114 | Cadmium | Indium | | Ar |
| 118 | Tin | Indium | | Ar |
| 121 | Antimony | Germanium | | ArHe |
| 137 | Barium | Indium | | Ar |
| 205 | Thallium | Bismuth | | Ar |
| 208 | Lead | Bismuth | | Ar |

**ALS Houston, US**

Date: 29-Jun-23

## FORM 13 - ANALYSIS RUN LOG

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999
Start Date: 27-Jun-2023 End Date: 27-Jun-2023

Run ID:HG04_440017
Instrument:HG04
Method:SW7470A

| Sample No. | D/F | Time | FileID | Analytes |
|---|---|---|---|---|
| ICCV 1 | 1 | 27-Jun-2023 14:20 | HG04_440017 Raw Data_7387924 | HG |
| ICV | 1 | 27-Jun-2023 14:22 | _7387925 | HG |
| ICB | 1 | 27-Jun-2023 14:24 | _7387926 | HG |
| CRA | 1 | 27-Jun-2023 14:25 | _7387927 | HG |
| CCV 2 | 1 | 27-Jun-2023 14:38 | _7387928 | HG |
| CCB 1 | 1 | 27-Jun-2023 14:39 | _7387929 | HG |
| CCV 3 | 1 | 27-Jun-2023 15:01 | _7387940 | HG |
| CCB 2 | 1 | 27-Jun-2023 15:02 | _7387941 | HG |
| CCV 4 | 1 | 27-Jun-2023 15:26 | _7387952 | HG |
| CCB 3 | 1 | 27-Jun-2023 15:28 | _7387953 | HG |
| CCV 5 | 1 | 27-Jun-2023 15:57 | _7387957 | HG |
| CCB 4 | 1 | 27-Jun-2023 15:59 | _7387958 | HG |
| CCV 6 | 1 | 27-Jun-2023 16:26 | _7388076 | HG |
| CCB 5 | 1 | 27-Jun-2023 16:28 | _7388077 | HG |
| CCV 7 | 1 | 27-Jun-2023 16:49 | _7388085 | HG |
| CCB 6 | 1 | 27-Jun-2023 16:50 | _7388086 | HG |
| CCV 8 | 1 | 27-Jun-2023 17:22 | _7388408 | HG |
| CCB 7 | 1 | 27-Jun-2023 17:23 | _7388409 | HG |
| CCV 9 | 1 | 27-Jun-2023 18:06 | _7388420 | HG |
| CCB 8 | 1 | 27-Jun-2023 18:08 | _7388421 | HG |
| CCV 10 | 1 | 27-Jun-2023 18:31 | _7388432 | HG |
| CCB 9 | 1 | 27-Jun-2023 18:33 | _7388433 | HG |
| CCV 11 | 1 | 27-Jun-2023 18:59 | _7388444 | HG |
| CCB 10 | 1 | 27-Jun-2023 19:00 | _7388445 | HG |
| CCV 12 | 1 | 27-Jun-2023 19:27 | _7388456 | HG |
| CCB 11 | 1 | 27-Jun-2023 19:29 | _7388457 | HG |
| MBLK-196820 | 1 | 27-Jun-2023 19:35 | _7388460 | HG |
| LCS-196820 | 1 | 27-Jun-2023 19:56 | _7388461 | HG |
| 102_061323 | 1 | 27-Jun-2023 19:58 | _7388462 | HG |
| 18CPTMW03SW_061323 | 1 | 27-Jun-2023 20:00 | _7388463 | HG |
| 18CPTMW03SW_061323MS | 1 | 27-Jun-2023 20:03 | _7388464 | HG |
| 18CPTMW03SW_061323MSD | 1 | 27-Jun-2023 20:07 | _7388465 | HG |
| MW14_061323 | 1 | 27-Jun-2023 20:09 | _7388466 | HG |
| 18CPTMW22DW_061323 | 1 | 27-Jun-2023 20:11 | _7388467 | HG |
| CCV 13 | 1 | 27-Jun-2023 20:12 | _7388468 | HG |
| CCB 12 | 1 | 27-Jun-2023 20:14 | _7388469 | HG |
| 18CPTMW22R_061323 | 1 | 27-Jun-2023 20:20 | _7388470 | HG |
| 18CPTMW22SW_061323 | 1 | 27-Jun-2023 20:21 | _7388471 | HG |
| CCV 14 | 1 | 27-Jun-2023 20:40 | _7388480 | HG |
| CCB 13 | 1 | 27-Jun-2023 20:42 | _7388481 | HG |
| CCV 15 | 1 | 27-Jun-2023 21:05 | _7388491 | HG |
| CCB 14 | 1 | 27-Jun-2023 21:06 | _7388492 | HG |

**ALS Houston, US**

Date: 29-Jun-23

## FORM 13 - ANALYSIS RUN LOG

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999
Start Date: 28-Jun-2023 End Date: 28-Jun-2023

Run ID:ICPMS06_440069
Instrument:ICPMS06
Method:

| Sample No. | D/F | Time | FileID | Analytes |
|---|---|---|---|---|
| ICPMS06_440069_Tune | 1 | 28-Jun-2023 00:00 | ICPMS06_440069_Tune_1 | |
| CAL BLK | 1 | 28-Jun-2023 10:39 | 013CALB.d_7389561 | 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-2023 10:41 | 014CALS.d_7389562 | 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-2023 10:43 | 015CALS.d_7389563 | 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-2023 10:45 | 016CALS.d_7389564 | 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-2023 10:47 | 017CALS.d_7389565 | 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-2023 10:48 | 018CALS.d_7389566 | 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-2023 10:54 | 020_ICV.d_7389568 | 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-2023 10:58 | 022LCV2.d_7389570 | 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-2023 11:20 | 027_ICB.d_7389575 | 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-2023 11:21 | 028LCV5.d_7389576 | 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-2023 11:26 | 030ICSA.d_7389615 | 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-2023 11:28 | 031ICSB.d_7389616 | 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-2023 13:20 | 085CALB.d_7390387 | 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-2023 13:22 | 086CALS.d_7390388 | 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-2023 13:24 | 087CALS.d_7390389 | 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-2023 13:26 | 088CALS.d_7390390 | 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-2023 13:28 | 089CALS.d_7390391 | 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-2023 13:29 | 090CALS.d_7390392 | 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-2023 13:39 | 095_ICB.d_7390397 | 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-2023 13:45 | 097LCV2.d_7390399 | 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-2023 13:47 | 098LCV5.d_7390400 | 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-2023 13:49 | 099_ICV.d_7390401 | 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-2023 16:34 | 174_CCV.d_7391177 | 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-2023 16:36 | 175_CCB.d_7391178 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| MBLK-196608 | 1 | 28-Jun-2023 16:37 | 176SMPL.d_7391179 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| LCS-196608 | 1 | 28-Jun-2023 16:39 | 177SMPL.d_7391180 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE V ZN |
| ZZZZZZSD | 5 | 28-Jun-2023 16:43 | 179SMPL.d_7391182 | AG AL AS BA BE CD CO CR CU FE K PB SB SE TL V ZN |
| ZZZZZZMS | 1 | 28-Jun-2023 16:45 | 180SMPL.d_7391183 | 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-2023 16:47 | 181SMPL.d_7391184 | 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-2023 16:49 | 182SMPL.d_7391185 | AG AL AS BA BE CD CO CR CU FE K PB SB SE TL V ZN |
| CCV 2 | 1 | 28-Jun-2023 16:57 | 185_CCV.d_7391188 | 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: 29-Jun-23

## FORM 13 - ANALYSIS RUN LOG

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999
Start Date: 28-Jun-2023 End Date: 28-Jun-2023

Run ID:ICPMS06_440069
Instrument:ICPMS06
Method:

| Sample No. | D/F | Time | FileID | Analytes |
|---|---|---|---|---|
| CCB 3 | 1 | 28-Jun-2023 16:59 | 186_CCB.d_7391189 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 102_061323 | 1 | 28-Jun-2023 17:03 | 188SMPL.d_7391191 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 18CPTMW03SW_061323 | 1 | 28-Jun-2023 17:05 | 189SMPL.d_7391192 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN |
| MW14_061323 | 1 | 28-Jun-2023 17:07 | 190SMPL.d_7391193 | AG AL AS BA BE CA CD CO CR CU FE K MG NI PB SB SE TL V ZN |
| 18CPTMW22DW_061323 | 1 | 28-Jun-2023 17:09 | 191SMPL.d_7391194 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN |
| 18CPTMW22R_061323 | 1 | 28-Jun-2023 17:10 | 192SMPL.d_7391195 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 18CPTMW22SW_061323 | 1 | 28-Jun-2023 17:12 | 193SMPL.d_7391196 | AG AL AS BA BE CA CD CO CR CU FE MG MN NI PB SB SE TL V ZN |
| CCB 4 | 1 | 28-Jun-2023 17:22 | 198_CCB.d_7391288 | 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-2023 17:42 | 201_CCV.d_7391291 | 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-2023 17:44 | 202_CCV.d_7391292 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| LCS-196608 | 1 | 28-Jun-2023 17:56 | 208SMPL.d_7391298 | TL |
| ZZZZZZSD | 25 | 28-Jun-2023 18:00 | 210SMPL.d_7391300 | CA MG MN NA NI |
| CCV 5 | 1 | 28-Jun-2023 18:02 | 211_CCV.d_7391301 | 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-2023 18:04 | 212_CCB.d_7391302 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| ZZZZZZPDS | 5 | 28-Jun-2023 18:06 | 213SMPL.d_7391303 | CA MG MN NA NI |
| 18CPTMW03SW_061323 | 20 | 28-Jun-2023 18:15 | 214SMPL.d_7391309 | NA |
| MW14_061323 | 20 | 28-Jun-2023 18:17 | 215SMPL.d_7391310 | MN NA |
| 18CPTMW22DW_061323 | 20 | 28-Jun-2023 18:19 | 216SMPL.d_7391311 | NA |
| 18CPTMW22SW_061323 | 20 | 28-Jun-2023 18:21 | 217SMPL.d_7391312 | K NA |
| CCV 6 | 1 | 28-Jun-2023 18:33 | 222_CCV.d_7391317 | 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-2023 18:34 | 223_CCB.d_7391318 | 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: 29-Jun-23

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Run ID: HG04_440017
Instrument: HG04
Method: SW7470A

| ICCV1 | Date: 27-Jun-2023 14:20 | | Seq: 7387924 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.01 | 100 | 90-110 | |

| ICV | Date: 27-Jun-2023 14:22 | | Seq: 7387925 | ICV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.63 | 93 | 90-110 | |

| CCV2 | Date: 27-Jun-2023 14:38 | | Seq: 7387928 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.93 | 99 | 90-110 | |

| CCV3 | Date: 27-Jun-2023 15:01 | | Seq: 7387940 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.05 | 101 | 90-110 | |

| CCV4 | Date: 27-Jun-2023 15:26 | | Seq: 7387952 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.01 | 100 | 90-110 | |

| CCV5 | Date: 27-Jun-2023 15:57 | | Seq: 7387957 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.08 | 102 | 90-110 | |

| CCV6 | Date: 27-Jun-2023 16:26 | | Seq: 7388076 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.16 | 103 | 90-110 | |

| CCV7 | Date: 27-Jun-2023 16:49 | | Seq: 7388085 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.17 | 103 | 90-110 | |

| CCV8 | Date: 27-Jun-2023 17:22 | | Seq: 7388408 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.85 | 97 | 90-110 | |

| CCV9 | Date: 27-Jun-2023 18:06 | | Seq: 7388420 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.02 | 100 | 90-110 | |

| CCV10 | Date: 27-Jun-2023 18:31 | | Seq: 7388432 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.97 | 99 | 90-110 | |

| CCV11 | Date: 27-Jun-2023 18:59 | | Seq: 7388444 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.08 | 102 | 90-110 | |

| CCV12 | Date: 27-Jun-2023 19:27 | | Seq: 7388456 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.01 | 100 | 90-110 | |

| CCV13 | Date: 27-Jun-2023 20:12 | | Seq: 7388468 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.01 | 100 | 90-110 | |

**ALS Houston, US**

Date: 29-Jun-23

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Run ID: HG04_440017
Instrument: HG04
Method: SW7470A

CCV14 Date: 27-Jun-2023 20:40 Seq: 7388480 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 4.52 | 90 | 90-110 | |

CCV15 Date: 27-Jun-2023 21:05 Seq: 7388491 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 5.06 | 101 | 90-110 | |

**ALS Houston, US**

Date: 29-Jun-23

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Run ID: ICPMS06_440069
Instrument: ICPMS06
Method: SW6020A

ICV | Date: 28-Jun-2023 10:54 | Seq: 7389568 | ICV | Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 106.081 | 106 | 90-110 | |
| Antimony | 100 | 96.728 | 97 | 90-110 | |
| Arsenic | 100 | 98.319 | 98 | 90-110 | |
| Barium | 100 | 99.199 | 99 | 90-110 | |
| Beryllium | 100 | 99.13 | 99 | 90-110 | |
| Cadmium | 100 | 97.019 | 97 | 90-110 | |
| Calcium | 10000 | 10036.24 | 100 | 90-110 | |
| Chromium | 100 | 104.352 | 104 | 90-110 | |
| Cobalt | 100 | 97.919 | 98 | 90-110 | |
| Copper | 100 | 98.029 | 98 | 90-110 | |
| Iron | 10000 | 9905.1 | 99 | 90-110 | |
| Lead | 100 | 97.221 | 97 | 90-110 | |
| Magnesium | 10000 | 10278.687 | 103 | 90-110 | |
| Manganese | 100 | 99.95 | 100 | 90-110 | |
| Nickel | 100 | 106.449 | 106 | 90-110 | |
| Potassium | 10000 | 10035.541 | 100 | 90-110 | |
| Selenium | 100 | 93.85 | 94 | 90-110 | |
| Silver | 100 | 100.75 | 101 | 90-110 | |
| Sodium | 10000 | 10075.067 | 101 | 90-110 | |
| Thallium | 100 | 93.7 | 94 | 90-110 | |
| Vanadium | 100 | 98.956 | 99 | 90-110 | |
| Zinc | 100 | 100.819 | 101 | 90-110 | |

ICV | Date: 28-Jun-2023 13:49 | Seq: 7390401 | ICV | Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 103.23 | 103 | 90-110 | |
| Antimony | 100 | 99.21 | 99 | 90-110 | |
| Arsenic | 100 | 102.072 | 102 | 90-110 | |
| Barium | 100 | 97.02 | 97 | 90-110 | |
| Beryllium | 100 | 100.371 | 100 | 90-110 | |
| Cadmium | 100 | 97.417 | 97 | 90-110 | |
| Calcium | 10000 | 10147.622 | 101 | 90-110 | |
| Chromium | 100 | 101.42 | 101 | 90-110 | |
| Cobalt | 100 | 101.419 | 101 | 90-110 | |
| Copper | 100 | 102.455 | 102 | 90-110 | |
| Iron | 10000 | 10085.837 | 101 | 90-110 | |
| Lead | 100 | 97.329 | 97 | 90-110 | |
| Magnesium | 10000 | 10252.135 | 103 | 90-110 | |
| Manganese | 100 | 101.911 | 102 | 90-110 | |
| Nickel | 100 | 101.478 | 101 | 90-110 | |
| Potassium | 10000 | 10235.046 | 102 | 90-110 | |
| Selenium | 100 | 104.246 | 104 | 90-110 | |
| Silver | 100 | 99.2 | 99 | 90-110 | |
| Sodium | 10000 | 10257.804 | 103 | 90-110 | |
| Thallium | 100 | 98.986 | 99 | 90-110 | |
| Vanadium | 100 | 100.189 | 100 | 90-110 | |
| Zinc | 100 | 101.447 | 101 | 90-110 | |

CCV1 | Date: 28-Jun-2023 16:34 | Seq: 7391177 | CCV | Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 103.087 | 103 | 90-110 | |
| Antimony | 100 | 97.054 | 97 | 90-110 | |
| Arsenic | 100 | 96.01 | 96 | 90-110 | |
| Barium | 100 | 98.514 | 99 | 90-110 | |
| Beryllium | 100 | 100.141 | 100 | 90-110 | |

**ALS Houston, US** Date: 29-Jun-23

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Run ID: ICPMS06_440069
Instrument: ICPMS06
Method: SW6020A

CCV1 Date: 28-Jun-2023 16:34 Seq: 7391177 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Cadmium | 100 | 96.806 | 97 | 90-110 | |
| Calcium | 10000 | 9595.454 | 96 | 90-110 | |
| Chromium | 100 | 102.965 | 103 | 90-110 | |
| Cobalt | 100 | 96.483 | 97 | 90-110 | |
| Copper | 100 | 97.749 | 98 | 90-110 | |
| Iron | 10000 | 9644.835 | 96 | 90-110 | |
| Lead | 100 | 96.224 | 96 | 90-110 | |
| Magnesium | 10000 | 9677.774 | 97 | 90-110 | |
| Manganese | 100 | 97.313 | 97 | 90-110 | |
| Nickel | 100 | 103.51 | 104 | 90-110 | |
| Potassium | 10000 | 9488.853 | 95 | 90-110 | |
| Selenium | 100 | 97.518 | 98 | 90-110 | |
| Silver | 100 | 98.377 | 98 | 90-110 | |
| Sodium | 10000 | 9830.511 | 98 | 90-110 | |
| Thallium | 100 | 93.588 | 94 | 90-110 | |
| Vanadium | 100 | 95.368 | 95 | 90-110 | |
| Zinc | 100 | 100.033 | 100 | 90-110 | |

CCV2 Date: 28-Jun-2023 16:57 Seq: 7391188 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 105.507 | 106 | 90-110 | |
| Antimony | 100 | 101.084 | 101 | 90-110 | |
| Arsenic | 100 | 99.976 | 100 | 90-110 | |
| Barium | 100 | 98.136 | 98 | 90-110 | |
| Beryllium | 100 | 101.505 | 102 | 90-110 | |
| Cadmium | 100 | 97.143 | 97 | 90-110 | |
| Calcium | 10000 | 9943.093 | 99 | 90-110 | |
| Chromium | 100 | 106.289 | 106 | 90-110 | |
| Cobalt | 100 | 100.344 | 100 | 90-110 | |
| Copper | 100 | 102.291 | 102 | 90-110 | |
| Iron | 10000 | 9972.041 | 100 | 90-110 | |
| Lead | 100 | 97.714 | 98 | 90-110 | |
| Magnesium | 10000 | 9967.416 | 100 | 90-110 | |
| Manganese | 100 | 100.336 | 100 | 90-110 | |
| Nickel | 100 | 107.869 | 108 | 90-110 | |
| Potassium | 10000 | 9843.061 | 98 | 90-110 | |
| Selenium | 100 | 101.757 | 102 | 90-110 | |
| Silver | 100 | 99.375 | 99 | 90-110 | |
| Sodium | 10000 | 10266.854 | 103 | 90-110 | |
| Thallium | 100 | 95.803 | 96 | 90-110 | |
| Vanadium | 100 | 98.974 | 99 | 90-110 | |
| Zinc | 100 | 103.712 | 104 | 90-110 | |

CCV3 Date: 28-Jun-2023 17:42 Seq: 7391291 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 103.01 | 103 | 90-110 | |
| Antimony | 100 | 101.741 | 102 | 90-110 | |
| Arsenic | 100 | 100.253 | 100 | 90-110 | |
| Barium | 100 | 97.058 | 97 | 90-110 | |
| Beryllium | 100 | 98.21 | 98 | 90-110 | |
| Cadmium | 100 | 96.12 | 96 | 90-110 | |
| Calcium | 10000 | 9773.072 | 98 | 90-110 | |
| Chromium | 100 | 104.472 | 104 | 90-110 | |
| Cobalt | 100 | 97.56 | 98 | 90-110 | |
| Copper | 100 | 99.606 | 100 | 90-110 | |

**ALS Houston, US** Date: 29-Jun-23

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Run ID: ICPMS06_440069
Instrument: ICPMS06
Method: SW6020A

CCV3 Date: 28-Jun-2023 17:42 Seq: 7391291 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Iron | 10000 | 9884.113 | 99 | 90-110 | |
| Lead | 100 | 97.208 | 97 | 90-110 | |
| Magnesium | 10000 | 9770.101 | 98 | 90-110 | |
| Manganese | 100 | 98.955 | 99 | 90-110 | |
| Nickel | 100 | 105.299 | 105 | 90-110 | |
| Potassium | 10000 | 9604.541 | 96 | 90-110 | |
| Selenium | 100 | 100.604 | 101 | 90-110 | |
| Silver | 100 | 97.053 | 97 | 90-110 | |
| Sodium | 10000 | 9872.53 | 99 | 90-110 | |
| Thallium | 100 | 93.416 | 93 | 90-110 | |
| Vanadium | 100 | 96.34 | 96 | 90-110 | |
| Zinc | 100 | 102.425 | 102 | 90-110 | |

CCV4 Date: 28-Jun-2023 17:44 Seq: 7391292 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 103.142 | 103 | 90-110 | |
| Antimony | 100 | 102.897 | 103 | 90-110 | |
| Arsenic | 100 | 100.133 | 100 | 90-110 | |
| Barium | 100 | 96.992 | 97 | 90-110 | |
| Beryllium | 100 | 98.648 | 99 | 90-110 | |
| Cadmium | 100 | 95.142 | 95 | 90-110 | |
| Calcium | 10000 | 9725.017 | 97 | 90-110 | |
| Chromium | 100 | 104.122 | 104 | 90-110 | |
| Cobalt | 100 | 98.815 | 99 | 90-110 | |
| Copper | 100 | 100.005 | 100 | 90-110 | |
| Iron | 10000 | 9999.339 | 100 | 90-110 | |
| Lead | 100 | 98.298 | 98 | 90-110 | |
| Magnesium | 10000 | 9705.663 | 97 | 90-110 | |
| Manganese | 100 | 99.873 | 100 | 90-110 | |
| Nickel | 100 | 106.309 | 106 | 90-110 | |
| Potassium | 10000 | 9580.886 | 96 | 90-110 | |
| Selenium | 100 | 103.741 | 104 | 90-110 | |
| Silver | 100 | 96.33 | 96 | 90-110 | |
| Sodium | 10000 | 9845.484 | 99 | 90-110 | |
| Thallium | 100 | 94.922 | 95 | 90-110 | |
| Vanadium | 100 | 95.369 | 95 | 90-110 | |
| Zinc | 100 | 101.183 | 101 | 90-110 | |

CCV5 Date: 28-Jun-2023 18:02 Seq: 7391301 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 109.24 | 109 | 90-110 | |
| Antimony | 100 | 99.796 | 100 | 90-110 | |
| Arsenic | 100 | 99.548 | 100 | 90-110 | |
| Barium | 100 | 100.595 | 101 | 90-110 | |
| Beryllium | 100 | 98.998 | 99 | 90-110 | |
| Cadmium | 100 | 99.142 | 99 | 90-110 | |
| Calcium | 10000 | 9917.441 | 99 | 90-110 | |
| Chromium | 100 | 106.51 | 107 | 90-110 | |
| Cobalt | 100 | 100.134 | 100 | 90-110 | |
| Copper | 100 | 100.599 | 101 | 90-110 | |
| Iron | 10000 | 10068.033 | 101 | 90-110 | |
| Lead | 100 | 99.818 | 100 | 90-110 | |
| Magnesium | 10000 | 10091.116 | 101 | 90-110 | |
| Manganese | 100 | 100.347 | 100 | 90-110 | |
| Nickel | 100 | 106.465 | 106 | 90-110 | |

**ALS Houston, US**

Date: 29-Jun-23

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Run ID: ICPMS06_440069
Instrument: ICPMS06
Method: SW6020A

CCV5 Date: 28-Jun-2023 18:02 Seq: 7391301 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Potassium | 10000 | 9863.557 | 99 | 90-110 | |
| Selenium | 100 | 98.965 | 99 | 90-110 | |
| Silver | 100 | 100.689 | 101 | 90-110 | |
| Sodium | 10000 | 10219.319 | 102 | 90-110 | |
| Thallium | 100 | 97.154 | 97 | 90-110 | |
| Vanadium | 100 | 98.183 | 98 | 90-110 | |
| Zinc | 100 | 102.647 | 103 | 90-110 | |

CCV6 Date: 28-Jun-2023 18:33 Seq: 7391317 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 101.312 | 101 | 90-110 | |
| Antimony | 100 | 98.264 | 98 | 90-110 | |
| Arsenic | 100 | 100.388 | 100 | 90-110 | |
| Barium | 100 | 98.79 | 99 | 90-110 | |
| Beryllium | 100 | 100.64 | 101 | 90-110 | |
| Cadmium | 100 | 99.882 | 100 | 90-110 | |
| Calcium | 10000 | 10104.786 | 101 | 90-110 | |
| Chromium | 100 | 103.423 | 103 | 90-110 | |
| Cobalt | 100 | 102.949 | 103 | 90-110 | |
| Copper | 100 | 103.846 | 104 | 90-110 | |
| Iron | 10000 | 10287.494 | 103 | 90-110 | |
| Lead | 100 | 99.554 | 100 | 90-110 | |
| Magnesium | 10000 | 10252.301 | 103 | 90-110 | |
| Manganese | 100 | 101.9 | 102 | 90-110 | |
| Nickel | 100 | 102.311 | 102 | 90-110 | |
| Potassium | 10000 | 9984.86 | 100 | 90-110 | |
| Selenium | 100 | 101.701 | 102 | 90-110 | |
| Silver | 100 | 99.029 | 99 | 90-110 | |
| Sodium | 10000 | 10363.568 | 104 | 90-110 | |
| Thallium | 100 | 106.806 | 107 | 90-110 | |
| Vanadium | 100 | 101.099 | 101 | 90-110 | |
| Zinc | 100 | 102.453 | 102 | 90-110 | |

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Date: 29-Jun-23

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Run ID: HG04_440017
Instrument: HG04
Method: SW7470A

| ICB | Date: 27-Jun-2023 14:24 | | Seq: 7387926 | ICB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB1 | Date: 27-Jun-2023 14:39 | | Seq: 7387929 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB2 | Date: 27-Jun-2023 15:02 | | Seq: 7387941 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB3 | Date: 27-Jun-2023 15:28 | | Seq: 7387953 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB4 | Date: 27-Jun-2023 15:59 | | Seq: 7387958 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB5 | Date: 27-Jun-2023 16:28 | | Seq: 7388077 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB6 | Date: 27-Jun-2023 16:50 | | Seq: 7388086 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB7 | Date: 27-Jun-2023 17:23 | | Seq: 7388409 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB8 | Date: 27-Jun-2023 18:08 | | Seq: 7388421 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB9 | Date: 27-Jun-2023 18:33 | | Seq: 7388433 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB10 | Date: 27-Jun-2023 19:00 | | Seq: 7388445 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB11 | Date: 27-Jun-2023 19:29 | | Seq: 7388457 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| MBLK-196820 | Date: 27-Jun-2023 19:35 | | Seq: 7388460 | MBLK | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB12 | Date: 27-Jun-2023 20:14 | | Seq: 7388469 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | -0.031 | 0.03 | 0.2 | J | |

| CCB13 | Date: 27-Jun-2023 20:42 | | Seq: 7388481 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

**ALS Houston, US**

Date: 29-Jun-23

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Run ID: HG04_440017
Instrument: HG04
Method: SW7470A

CCB14 | Date: 27-Jun-2023 21:06 | Seq: 7388492 | CCB | Units: ug/L

| Analyte | Result | MDL | Report Limit | Qual |
|---|---|---|---|---|
| Mercury | 0.2 | 0.03 | 0.2 | U |

**ALS Houston, US** Date: 29-Jun-23

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Run ID: ICPMS06_440069
Instrument: ICPMS06
Method: SW6020A

| ICB | Date: 28-Jun-2023 11:20 | | Seq: 7389575 | 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-2023 13:39 | | Seq: 7390397 | CCB | 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 | -18.17 | 18 | 200 | J | |
| Selenium | 5 | 1.1 | 5 | U | |
| Silver | 5 | 0.2 | 5 | U | |
| Sodium | 200 | 14 | 200 | U | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | -1.081 | 0.6 | 5 | J | |
| Zinc | 5 | 2 | 5 | U | |

| CCB2 | Date: 28-Jun-2023 16:36 | | Seq: 7391178 | 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 | |

**ALS Houston, US**

Date: 29-Jun-23

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Run ID: ICPMS06_440069
Instrument: ICPMS06
Method: SW6020A

| CCB2 | Date: 28-Jun-2023 16:36 | | Seq: 7391178 | 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 | -36.22 | 18 | 200 | J | |
| Selenium | 2 | 1.1 | 2 | U | |
| Silver | 2 | 0.2 | 2 | U | |
| Sodium | 189.1 | 14 | 200 | J | |
| Thallium | 0.644 | 0.2 | 2 | J | |
| Vanadium | -0.645 | 0.6 | 5 | J | |
| Zinc | 4 | 2 | 4 | U | |

| MBLK-196608 | Date: 28-Jun-2023 16:37 | | Seq: 7391179 | 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 | 179.7 | 14 | 200 | J | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | 5 | 0.6 | 5 | U | |
| Zinc | 5 | 2 | 5 | U | |

| CCB3 | Date: 28-Jun-2023 16:59 | | Seq: 7391189 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Aluminum | 1.839 | 1.8 | 10 | J | |
| 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 | |

**ALS Houston, US**

Date: 29-Jun-23

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Run ID: ICPMS06_440069
Instrument: ICPMS06
Method: SW6020A

| CCB3 | Date: 28-Jun-2023 16:59 | | Seq: 7391189 | 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 | -44.44 | 18 | 200 | J | |
| Selenium | 2 | 1.1 | 2 | U | |
| Silver | 2 | 0.2 | 2 | U | |
| Sodium | 233.6 | 14 | 200 | | |
| Thallium | 0.687 | 0.2 | 2 | J | |
| Vanadium | 5 | 0.6 | 5 | U | |
| Zinc | 4 | 2 | 4 | U | |

| CCB4 | Date: 28-Jun-2023 17:22 | | Seq: 7391288 | 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 | 0.423 | 0.4 | 4 | J | |
| 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 | 390.1 | 14 | 200 | | |
| Thallium | 0.659 | 0.2 | 2 | J | |
| Vanadium | 5 | 0.6 | 5 | U | |
| Zinc | 4 | 2 | 4 | U | |

| CCB5 | Date: 28-Jun-2023 18:04 | | Seq: 7391302 | 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: 29-Jun-23

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Run ID: ICPMS06_440069
Instrument: ICPMS06
Method: SW6020A

| CCB5 | Date: 28-Jun-2023 18:04 | | Seq: 7391302 | 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 | 220 | 14 | 200 | | |
| Thallium | 0.633 | 0.2 | 2 | J | |
| Vanadium | -0.729 | 0.6 | 5 | J | |
| Zinc | 4 | 2 | 4 | U | |

| CCB6 | Date: 28-Jun-2023 18:34 | | Seq: 7391318 | 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 | 136.1 | 14 | 200 | J | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | -1.085 | 0.6 | 5 | J | |
| Zinc | 4 | 2 | 4 | U | |

**ALS Houston, US**

Date: 29-Jun-23

## Form 4 - ICP Interference Check Sample

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Run ID:ICPMS06_440069
Instrument:ICPMS06
Method:SW6020A

| ICSA | Date: 28-Jun-2023 11:26 | Seq: 7389615 | ICSA | Units: ug/L |
|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | |
| Aluminum | 100000 | 89070 | 89.1 | |
| Antimony | | 0.197 | 0 | |
| Arsenic | | 0.17 | 0 | |
| Barium | | 0.671 | 0 | |
| Beryllium | | -0.037 | 0 | |
| Cadmium | | 0.377 | 0 | |
| Calcium | 100000 | 95970 | 96.0 | |
| Chromium | | 1.484 | 0 | |
| Cobalt | | 0.643 | 0 | |
| Copper | | 0.383 | 0 | |
| Iron | 100000 | 97460 | 97.5 | |
| Lead | | 0.173 | 0 | |
| Magnesium | 100000 | 95680 | 95.7 | |
| Manganese | | 1.235 | 0 | |
| Nickel | | 0.981 | 0 | |
| Potassium | 100000 | 96310 | 96.3 | |
| Selenium | | -0.138 | 0 | |
| Silver | | 0.107 | 0 | |
| Sodium | 100000 | 96010 | 96.0 | |
| Thallium | | -0.02 | 0 | |
| Vanadium | | -5 | 0 | |
| Zinc | | 3.016 | 0 | |

| ICSAB | Date: 28-Jun-2023 11:28 | Seq: 7389616 | ICSAB | Units: ug/L |
|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | |
| Aluminum | 100500 | 90330 | 89.9 | |
| Antimony | 100 | 100.9 | 101 | |
| Arsenic | 100 | 100.1 | 100 | |
| Barium | 100 | 102.7 | 103 | |
| Beryllium | 100 | 96.68 | 96.7 | |
| Cadmium | 100 | 100.7 | 101 | |
| Calcium | 110000 | 106800 | 97.1 | |
| Chromium | 100 | 99.4 | 99.4 | |
| Cobalt | 100 | 99.71 | 99.7 | |
| Copper | 100 | 96.94 | 96.9 | |
| Iron | 110000 | 108800 | 98.9 | |
| Lead | 100 | 101.4 | 101 | |
| Magnesium | 110000 | 108000 | 98.2 | |
| Manganese | 100 | 99.54 | 99.5 | |
| Nickel | 100 | 96.92 | 96.9 | |
| Potassium | 110000 | 106900 | 97.2 | |
| Selenium | 100 | 101 | 101 | |
| Silver | 100 | 100.1 | 100 | |
| Sodium | 110000 | 106900 | 97.2 | |
| Thallium | 100 | 98.56 | 98.6 | |
| Vanadium | 100 | 101.4 | 101 | |
| Zinc | 100 | 100.9 | 101 | |

**ALS Houston, US**

Date: 29-Jun-23

## Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Date Analyzed: 27-Jun-2023 20:07
Date Extracted: 27-Jun-2023 11:00
Units: ug/L

Matrix Spike: HS23060999-02MS
Client Sample ID: 18CPTMW03SW_061323

Analysis Method: SW7470A

| Analyte | Sample Result | MS Result | Spike Amount | % Rec | MSD Result | Spike Amount | % Rec | % Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.2000 | 4.970 | 5.000 | 99.6 | 4.990 | 5.000 | 100 | 82-119 | 0.402 | 20 |

**ALS Houston, US** Date: 29-Jun-23

## Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Date Analyzed: 28-Jun-2023 16:47
Date Extracted: 22-Jun-2023 14:30
Units: ug/L

Matrix Spike: HS23060722-06MS
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 | 35.28 | 130.4 | 100.0 | 95.1 | 126.4 | 100.0 | 91.2 | 84-117 | 3.08 | 20 |
| Antimony | 5.000 | 48.62 | 50.00 | 97.2 | 47.23 | 50.00 | 94.4 | 85-117 | 2.90 | 20 |
| Arsenic | 0.4660 | 49.58 | 50.00 | 98.2 | 48.82 | 50.00 | 96.7 | 84-116 | 1.54 | 20 |
| Barium | 28.40 | 75.56 | 50.00 | 94.3 | 76.88 | 50.00 | 97.0 | 86-114 | 1.73 | 20 |
| Beryllium | 2.000 | 50.86 | 50.00 | 102 | 49.91 | 50.00 | 99.7 | 83-121 | 1.89 | 20 |
| Cadmium | 2.000 | 45.31 | 50.00 | 90.4 | 47.75 | 50.00 | 95.2 | 87-115 | 5.25 | 20 |
| Calcium | 139100 | 133300 | 5000 | -117 | 132200 | 5000 | -139 | 87-118 | 0.832 | 20 |
| Chromium | 5.369 | 51.11 | 50.00 | 91.5 | 50.08 | 50.00 | 89.4 | 85-116 | 2.03 | 20 |
| Cobalt | 2.226 | 49.19 | 50.00 | 93.9 | 47.74 | 50.00 | 91.0 | 86-115 | 2.98 | 20 |
| Copper | 1.363 | 48.26 | 50.00 | 93.8 | 47.53 | 50.00 | 92.3 | 85-118 | 1.53 | 20 |
| Iron | 149.8 | 4979 | 5000 | 96.6 | 4837 | 5000 | 93.7 | 87-118 | 2.89 | 20 |
| Lead | 5.000 | 46.11 | 50.00 | 92.0 | 46.61 | 50.00 | 93.0 | 88-115 | 1.10 | 20 |
| Magnesium | 68530 | 67950 | 5000 | -11.7 | 66940 | 5000 | -31.8 | 83-118 | 1.49 | 20 |
| Manganese | 369.0 | 391.4 | 50.00 | 44.7 | 382.3 | 50.00 | 26.6 | 87-115 | 2.33 | 20 |
| Nickel | 44.03 | 85.92 | 50.00 | 83.8 | 84.83 | 50.00 | 81.6 | 85-117 | 1.27 | 20 |
| Potassium | 891.4 | 5514 | 5000 | 92.5 | 5402 | 5000 | 90.2 | 87-115 | 2.06 | 20 |
| Selenium | 5.000 | 49.88 | 50.00 | 100 | 47.92 | 50.00 | 96.4 | 80-120 | 4.00 | 20 |
| Silver | 5.000 | 43.65 | 50.00 | 87.4 | 44.25 | 50.00 | 88.6 | 85-116 | 1.38 | 20 |
| Sodium | 371800 | 351000 | 5000 | -417 | 343900 | 5000 | -558 | 85-117 | 2.03 | 20 |
| Thallium | 0.6290 | 41.67 | 50.00 | 82.1 | 42.92 | 50.00 | 84.6 | 82-116 | 2.95 | 20 |
| Vanadium | 2.780 | 50.20 | 50.00 | 94.8 | 49.05 | 50.00 | 92.5 | 86-115 | 2.32 | 20 |
| Zinc | 3.790 | 51.83 | 50.00 | 96.1 | 50.08 | 50.00 | 92.6 | 83-119 | 3.43 | 20 |

**ALS Houston, US**

Date: 29-Jun-23

## Form 5B - Post Digest Sample Recovery

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Date Analyzed: 28-Jun-2023 16:49
Date Extracted: 22-Jun-2023 14:30
Units: ug/L

Lab Sample ID: HS23060722-06PDS
Client Sample ID:

Analysis Method: SW6020A

| Analyte | Sample Result | PDS Result | Spike Amount | % Rec | % Rec Limits |
|---|---|---|---|---|---|
| Aluminum | 35.28 | 126.7 | 100 | 91 | 80-120 |
| Antimony | 0 | 96.82 | 100 | 97 | 80-120 |
| Arsenic | 0.466 | 97.54 | 100 | 97 | 80-120 |
| Barium | 28.4 | 123.3 | 100 | 95 | 80-120 |
| Beryllium | 0 | 103.3 | 100 | 103 | 80-120 |
| Cadmium | 0 | 93.69 | 100 | 94 | 80-120 |
| Chromium | 5.369 | 98 | 100 | 93 | 80-120 |
| Cobalt | 2.226 | 94.94 | 100 | 93 | 80-120 |
| Copper | 1.363 | 93.94 | 100 | 93 | 80-120 |
| Iron | 149.8 | 9750 | 10000 | 96 | 80-120 |
| Lead | 0 | 94.98 | 100 | 95 | 80-120 |
| Potassium | 891.4 | 10210 | 10000 | 93 | 80-120 |
| Selenium | 0 | 96.54 | 100 | 97 | 80-120 |
| Silver | 0 | 92.88 | 100 | 93 | 80-120 |
| Thallium | 0.629 | 88.24 | 100 | 88 | 80-120 |
| Vanadium | 2.78 | 97.86 | 100 | 95 | 80-120 |
| Zinc | 3.79 | 98.71 | 100 | 95 | 80-120 |
| Calcium | 129100 | 179700 | 50000 | 101 | 80-120 |
| Magnesium | 63390 | 111100 | 50000 | 96 | 80-120 |
| Manganese | 347.3 | 828.8 | 500 | 96 | 80-120 |
| Nickel | 39.66 | 522 | 500 | 97 | 80-120 |
| Sodium | 342400 | 394500 | 50000 | 104 | 80-120 |

**ALS Houston, US**

Date: 29-Jun-23

## Form 7 - Laboratory Control Sample

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Date Analyzed: 27-Jun-2023 19:56
Date Extracted: 27-Jun-2023 11:00
Units: ug/L

Lab Sample ID: LCS-196820

Analysis Method: SW7470A

| Analyte | Spike Amount | LCS Result | % Rec | % Rec Limits |
|---|---|---|---|---|
| Mercury | 5 | 5.03 | 101 | 82-119 |

**ALS Houston, US**

Date: 29-Jun-23

**Form 7 - Laboratory Control Sample**

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Date Analyzed: 28-Jun-2023 16:39
Date Extracted: 22-Jun-2023 14:30
Units: ug/L

Lab Sample ID: LCS-196608
Analysis Method: SW6020A

| Analyte | Spike Amount | LCS Result | % Rec | % Rec Limits |
|---|---|---|---|---|
| Aluminum | 100 | 102.5 | 102 | 84-117 |
| Antimony | 50 | 47.49 | 95 | 85-117 |
| Arsenic | 50 | 47.48 | 95 | 84-116 |
| Barium | 50 | 45.61 | 91 | 86-114 |
| Beryllium | 50 | 47.48 | 95 | 83-121 |
| Cadmium | 50 | 46.39 | 93 | 87-115 |
| Calcium | 5000 | 4818 | 96 | 87-118 |
| Chromium | 50 | 46.52 | 93 | 85-116 |
| Cobalt | 50 | 46.68 | 93 | 86-115 |
| Copper | 50 | 55.47 | 111 | 85-118 |
| Iron | 5000 | 4746 | 95 | 87-118 |
| Lead | 50 | 46.29 | 93 | 88-115 |
| Magnesium | 5000 | 4964 | 99 | 83-118 |
| Manganese | 50 | 46.64 | 93 | 87-115 |
| Nickel | 50 | 47.5 | 95 | 85-117 |
| Potassium | 5000 | 4778 | 96 | 87-115 |
| Selenium | 50 | 47.32 | 95 | 80-120 |
| Silver | 50 | 46.41 | 93 | 85-116 |
| Sodium | 5000 | 5042 | 101 | 85-117 |
| Vanadium | 50 | 45.28 | 91 | 86-115 |
| Zinc | 50 | 54.19 | 108 | 83-119 |
| Thallium | 50 | 43.15 | 86 | 82-116 |

**ALS Houston, US** Date: 29-Jun-23

## Form 8 - ICP Serial Dilutions

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23060999

Date Analyzed: 28-Jun-2023 16:43
Date Extracted: 22-Jun-2023 14:30
Units: ug/L

Lab Sample ID: HS23060722-06SD
Client Sample ID:

Analysis Method: SW6020A

| Analyte | Sample Result | C | SD Result | C | RPD | Q |
|---|---|---|---|---|---|---|
| Aluminum | 35.28 | | 29.23 | J | 17 | |
| Antimony | 0 | U | 0 | U | 0 | |
| Arsenic | 0.466 | J | 0 | U | 0 | |
| Barium | 28.4 | | 28.05 | | 1 | |
| Beryllium | 0 | U | 0 | U | 0 | |
| Cadmium | 0 | U | 0 | U | 0 | |
| Chromium | 5.369 | | 4.374 | J | 19 | |
| Cobalt | 2.226 | J | 1.953 | J | 12 | |
| Copper | 1.363 | J | 0 | U | 0 | |
| Iron | 149.8 | J | 98.3 | J | 34 | |
| Lead | 0 | U | 0 | U | 0 | |
| Potassium | 891.4 | | 578.1 | J | 35 | |
| Selenium | 0 | U | 0 | U | 0 | |
| Silver | 0 | U | 0 | U | 0 | |
| Thallium | 0.629 | J | 0 | U | 0 | |
| Vanadium | 2.78 | J | 18.35 | J | 560 | |
| Zinc | 3.79 | J | 0 | U | 0 | |
| Calcium | 129100 | | 130700 | | 1 | |
| Magnesium | 63390 | | 65320 | | 3 | |
| Manganese | 347.3 | | 349.2 | | 1 | |
| Nickel | 39.66 | | 37.4 | J | 6 | |
| Sodium | 342400 | | 353800 | | 3 | |

**Report Generated By Teledyne Leeman QuickTrace**

**Analyst:** ALSHS.NoUser,

**Worksheet file:** C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\062723AW.wszf

**Creation Date:** 6/27/2023 11:58:24 AM

**Comment:**

# *Results*

| Sample Name | | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Calibration Blank | | | | | STD | 06/27/23 02:07:40 pm | 0.000 | 107 | 22.00 | | |
| | Replicates | 81.2 | 129.2 | 92.8 | 124.2 | | | | | | |
| Standard #1 (0.2 ppb) | | | | | STD | 06/27/23 02:09:22 pm | 0.200 | 1446 | 1.35 | -4.07% | |
| | Replicates | 1434.9 | 1428.1 | 1449.5 | 1472.3 | | | | | | |
| Standard #2 (0.5 ppb) | | | | | STD | 06/27/23 02:11:05 pm | 0.500 | 3675 | 1.35 | 4.37% | |
| | Replicates | 3612.5 | 3661.0 | 3725.4 | 3702.2 | | | | | | |
| Standard #3 (2.0 ppb) | | | | | STD | 06/27/23 02:12:47 pm | 2.000 | 13819 | 0.86 | 1.18% | |
| | Replicates | 13675.6 | 13768.5 | 13904.3 | 13929.7 | | | | | | |
| Standard #4 (5.0 ppb) | | | | | STD | 06/27/23 02:14:30 pm | 5.000 | 34276 | 0.73 | 1.04% | |
| | Replicates | 33949.4 | 34218.3 | 34426.5 | 34511.1 | | | | | | |
| Standard #5 (10.0 ppb) | | | | | STD | 06/27/23 02:18:32 pm | 10.000 | 67168 | 0.74 | -0.78% | |
| | Replicates | 66592.8 | 66988.1 | 67337.9 | 67754.8 | | | | | | |

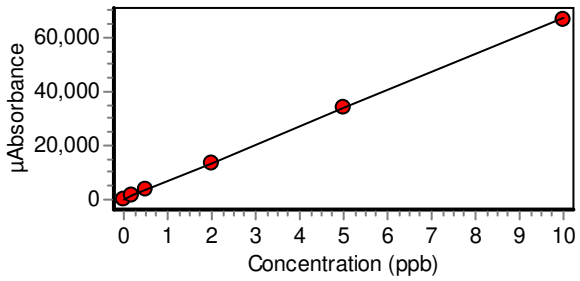
Calibration

Equation: Abs = 6754.624x + 150.276

R2: 0.99987 RSE: 3.60%

SEE: 337.5478

Flags:




| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ICCV | | | | | UNK | 06/27/23 02:20:54 pm | 5.010 | 34001 | 1.11 | | |
| | Replicates | 33556.4 | 33846.3 | 34199.5 | 34402.7 | | | | | | |
| ICV | | | | | UNK | 06/27/23 02:22:35 pm | 4.630 | 31398 | 1.02 | | |
| | Replicates | 31008.1 | 31296.3 | 31530.5 | 31755.3 | | | | | | |
| ICB | | | | | UNK | 06/27/23 02:24:17 pm | -0.016 | 45 | 21.90 | | |
| | Replicates | 54.6 | 14.2 | 68.4 | 43.4 | | | | | | |
| CRA | | | | | UNK | 06/27/23 02:25:59 pm | 0.196 | 1475 | 0.99 | | |
| | Replicates | 1463.9 | 1463.9 | 1486.9 | 1486.3 | | | | | | |
| CCV | | | | | UNK | 06/27/23 02:38:01 pm | 4.930 | 33479 | 0.65 | | |
| | Replicates | 33214.5 | 33396.0 | 33615.4 | 33690.0 | | | | | | |
| CCB | | | | | UNK | 06/27/23 02:39:44 pm | -0.014 | 53 | 28.58 | | |
| | Replicates | 55.4 | 14.1 | 63.7 | 79.1 | | | | | | |
| MBLK-196797 | | | | | UNK | 06/27/23 02:41:26 pm | -0.010 | 86 | 29.37 | | |
| | Replicates | 103.7 | 81.3 | 61.3 | 97.3 | | | | | | |

| Sample Name | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|
| LCS-196797 | | | | UNK | 06/27/23 02:45:25 pm | 5.110 | 34643 | 0.64 | | |
| | Replicates | 34342.3 | 34624.4 | 34765.8 | 34840.6 | | | | | |
| MBLKT1-196582 | | | | UNK | 06/27/23 02:47:07 pm | -0.013 | 59 | 15.59 | | |
| | Replicates | 67.9 | 38.5 | 62.3 | 68.7 | | | | | |
| MBLKT2-196457 | | | | UNK | 06/27/23 02:48:50 pm | -0.008 | 95 | 27.60 | | |
| | Replicates | 88.1 | 116.3 | 81.1 | 95.1 | | | | | |
| MBLKT3-196637 | | | | UNK | 06/27/23 02:50:32 pm | -0.011 | 78 | 22.87 | | |
| | Replicates | 56.2 | 96.4 | 81.8 | 76.0 | | | | | |
| MBLKT4-196630 | | | | UNK | 06/27/23 02:52:15 pm | -0.007 | 105 | 11.92 | | |
| | Replicates | 98.0 | 108.8 | 104.8 | 109.8 | | | | | |
| MBLKT5-195281 | | | | UNK | 06/27/23 02:53:58 pm | -0.014 | 56 | 11.64 | | |
| | Replicates | 66.0 | 50.3 | 63.7 | 42.9 | | | | | |
| HS23060521-01 | | | | UNK | 06/27/23 02:55:41 pm | 0.026 | 324 | 5.20 | | |
| | Replicates | 311.0 | 328.8 | 327.2 | 330.6 | | | | | |
| HS23060521-02 | | | | UNK | 06/27/23 02:57:22 pm | -0.006 | 111 | 28.98 | | |
| | Replicates | 124.1 | 104.7 | 117.1 | 99.5 | | | | | |
| HS23060988-01 | | | | UNK | 06/27/23 02:59:04 pm | -0.006 | 106 | 50.52 | | |
| | Replicates | 98.4 | 137.4 | 85.4 | 104.8 | | | | | |
| CCV | | | | UNK | 06/27/23 03:01:09 pm | 5.050 | 34266 | 0.48 | | |
| | Replicates | 34035.0 | 34271.6 | 34375.6 | 34383.0 | | | | | |
| CCB | | | | UNK | 06/27/23 03:02:53 pm | -0.017 | 35 | 19.62 | | |
| | Replicates | 29.9 | 43.9 | 59.1 | 5.7 | | | | | |
| HS23060988-01MS | | | | UNK | 06/27/23 03:06:35 pm | 5.410 | 36692 | 3.21 | | |
| | Replicates | 37546.2 | 37391.4 | 36835.6 | 34995.8 | | | | | |
| HS23060988-01MSD | | | | UNK | 06/27/23 03:11:19 pm | 5.110 | 34666 | 0.58 | | |
| | Replicates | 34902.2 | 34747.7 | 34578.1 | 34437.7 | | | | | |
| HS23060988-02 | | | | UNK | 06/27/23 03:13:01 pm | -0.015 | 50 | 14.15 | | |
| | Replicates | 44.2 | 44.7 | 71.3 | 40.7 | | | | | |
| HS23061078-01 | | | | UNK | 06/27/23 03:14:43 pm | -0.009 | 91 | 15.05 | | |
| | Replicates | 90.4 | 82.5 | 103.5 | 87.9 | | | | | |
| HS23061078-02 | | | | UNK | 06/27/23 03:16:25 pm | -0.004 | 125 | 65.66 | | |
| | Replicates | 132.1 | 107.3 | 144.5 | 115.5 | | | | | |
| HS23061078-03 | | | | UNK | 06/27/23 03:18:08 pm | -0.005 | 116 | 97.83 | | |
| | Replicates | 125.7 | 138.4 | 67.4 | 134.2 | | | | | |
| HS23061358-01 | | | | UNK | 06/27/23 03:19:50 pm | 0.000 | 152 | 078.44 | | |
| | Replicates | 161.9 | 151.9 | 167.9 | 126.3 | | | | | |
| HS23061399-01 | | | | UNK | 06/27/23 03:21:33 pm | -0.004 | 121 | 96.29 | | |
| | Replicates | 86.6 | 143.7 | 111.1 | 144.1 | | | | | |

| Sample Name | | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HS23061443-01 | | | | | UNK | 06/27/23 03:23:16 pm | -0.005 | 118 | 24.52 | | |
| | Replicates | 114.1 | 109.7 | 119.7 | 128.1 | | | | | | |
| HS23061449-01 | | | | | UNK | 06/27/23 03:24:59 pm | -0.019 | 21 | 15.44 | | |
| | Replicates | 18.4 | 38.1 | 32.7 | -6.7 | | | | | | |
| CCV | | | | | UNK | 06/27/23 03:26:42 pm | 5.010 | 33986 | 0.82 | | |
| | Replicates | 33618.5 | 33937.5 | 34123.5 | 34264.1 | | | | | | |
| CCB | | | | | UNK | 06/27/23 03:28:26 pm | -0.014 | 58 | 18.22 | | |
| | Replicates | 78.1 | 56.9 | 37.5 | 61.5 | | | | | | |
| HS23061472-01 | | | | | UNK | 06/27/23 03:32:10 pm | -0.001 | 146 | 295.75 | | |
| | Replicates | 150.2 | 131.8 | 159.0 | 144.6 | | | | | | |
| HS23061476-01 | | | | | UNK | 06/27/23 03:33:51 pm | -0.017 | 35 | 5.94 | | |
| | Replicates | 29.1 | 30.7 | 44.1 | 37.1 | | | | | | |
| HS23061535-01 | | | | | UNK | 06/27/23 03:35:33 pm | -0.006 | 107 | 44.09 | | |
| | Replicates | 131.9 | 97.1 | 110.1 | 87.5 | | | | | | |
| MBLK-196806 | | | | | UNK | 06/27/23 03:37:15 pm | -0.015 | 48 | 27.68 | | |
| | Replicates | 10.5 | 55.6 | 78.8 | 46.0 | | | | | | |
| LCS-196806 | | | | | UNK | 06/27/23 03:41:25 pm | 4.740 | 32150 | 1.59 | | |
| | Replicates | 31900.6 | 31901.0 | 31886.4 | 32913.8 | | | | | | |
| MBLKF1-196696 | | | | | UNK | 06/27/23 03:43:07 pm | -0.022 | 0 | 10.95 | | |
| | Replicates | 7.1 | -20.8 | -5.6 | 17.4 | | | | | | |
| HS23060456-12 | | | | | UNK | 06/27/23 03:44:49 pm | -0.013 | 62 | 16.89 | | |
| | Replicates | 50.1 | 54.3 | 83.5 | 58.5 | | | | | | |
| HS23060797-10 | | | | | UNK | 06/27/23 03:46:32 pm | -0.009 | 93 | 43.89 | | |
| | Replicates | 101.3 | 55.0 | 108.4 | 106.0 | | | | | | |
| HS23060879-01 | | | | | UNK | 06/27/23 03:48:14 pm | -0.013 | 65 | 25.08 | | |
| | Replicates | 53.8 | 64.0 | 95.4 | 47.2 | | | | | | |
| HS23060879-02 | | | | | UNK | 06/27/23 03:49:57 pm | -0.003 | 131 | 120.33 | | |
| | Replicates | 131.9 | 148.9 | 98.3 | 145.3 | | | | | | |
| CCV | | | | | UNK | 06/27/23 03:57:12 pm | 5.080 | 34478 | 0.94 | | |
| | Replicates | 34087.5 | 34363.3 | 34631.5 | 34829.7 | | | | | | |
| CCB | | | | | UNK | 06/27/23 03:59:15 pm | -0.017 | 39 | 12.29 | | |
| | Replicates | 20.3 | 53.2 | 42.2 | 40.0 | | | | | | |
| HS23060879-03 | | | | | UNK | 06/27/23 04:00:58 pm | -0.004 | 121 | 45.35 | | |
| | Replicates | 127.5 | 108.4 | 136.6 | 112.0 | | | | | | |
| HS23060879-04 | | | | | UNK | 06/27/23 04:02:41 pm | -0.003 | 130 | 22.17 | | |
| | Replicates | 133.4 | 122.9 | 131.7 | 130.1 | | | | | | |
| HS23060879-04MS | | | | | UNK | 06/27/23 04:08:27 pm | 5.520 | 37467 | 0.34 | | |
| | Replicates | 37519.5 | 37552.4 | 37519.2 | 37275.6 | | | | | | |

| Sample Name | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|
| HS23060879-04MSD | | | UNK | 06/27/23 04:10:09 pm | 5.180 | 35126 | 0.67 | | |
| Replicates | 35411.7 | 35201.7 | 35023.1 | 34867.9 | | | | | |
| HS23060925-01 | | | UNK | 06/27/23 04:11:51 pm | -0.018 | 26 | 28.27 | | |
| Replicates | 52.7 | 59.2 | 6.2 | -12.4 | | | | | |
| HS23060925-02 | | | UNK | 06/27/23 04:13:33 pm | -0.006 | 107 | 63.02 | | |
| Replicates | 79.8 | 94.6 | 142.8 | 112.2 | | | | | |
| HS23060925-03 | | | UNK | 06/27/23 04:15:15 pm | -0.005 | 120 | 64.25 | | |
| Replicates | 132.9 | 111.7 | 95.7 | 138.3 | | | | | |
| HS23061000-01 | | | UNK | 06/27/23 04:16:57 pm | -0.005 | 114 | 56.69 | | |
| Replicates | 84.9 | 127.4 | 115.2 | 129.2 | | | | | |
| HS23061000-02 | | | UNK | 06/27/23 04:18:39 pm | -0.015 | 47 | 18.20 | | |
| Replicates | 32.9 | 28.3 | 59.9 | 65.7 | | | | | |
| HS23061000-03 | | | UNK | 06/27/23 04:20:21 pm | 0.045 | 457 | 1.44 | | |
| Replicates | 451.2 | 455.3 | 461.7 | 458.1 | | | | | |
| CCV | | | UNK | 06/27/23 04:26:30 pm | 5.160 | 34991 | 0.42 | | |
| Replicates | 34816.1 | 34931.9 | 35075.7 | 35142.1 | | | | | |
| CCB | | | UNK | 06/27/23 04:28:14 pm | -0.018 | 28 | 19.13 | | |
| Replicates | 42.0 | -2.4 | 50.2 | 23.8 | | | | | |
| HS23061515-01 | | | UNK | 06/27/23 04:31:14 pm | 0.008 | 203 | 19.83 | | |
| Replicates | 201.5 | 193.8 | 218.2 | 199.4 | | | | | |
| HS23061515-02 | | | UNK | 06/27/23 04:32:57 pm | 0.022 | 298 | 8.72 | | |
| Replicates | 299.9 | 284.4 | 314.8 | 292.8 | | | | | |
| HS23061515-03 | | | UNK | 06/27/23 04:34:40 pm | -0.005 | 115 | 49.25 | | |
| Replicates | 118.8 | 113.2 | 93.2 | 135.2 | | | | | |
| HS23061515-04 | | | UNK | 06/27/23 04:36:23 pm | -0.020 | 16 | 13.01 | | |
| Replicates | 18.7 | 38.6 | -3.0 | 10.0 | | | | | |
| HS23061515-05 | | | UNK | 06/27/23 04:38:05 pm | -0.014 | 58 | 22.15 | | |
| Replicates | 80.0 | 61.5 | 60.5 | 30.7 | | | | | |
| HS23061515-06 | | | UNK | 06/27/23 04:39:47 pm | -0.009 | 90 | 44.67 | | |
| Replicates | 113.3 | 113.1 | 61.9 | 73.1 | | | | | |
| HS23061601-16 | | | UNK | 06/27/23 04:41:29 pm | -0.007 | 102 | 38.14 | | |
| Replicates | 117.8 | 78.1 | 97.5 | 115.1 | | | | | |
| MBLK-196816 | | | UNK | 06/27/23 04:43:11 pm | -0.015 | 46 | 23.72 | | |
| Replicates | 57.4 | 55.3 | 61.7 | 8.9 | | | | | |
| LCS-196816 | | | UNK | 06/27/23 04:44:53 pm | 5.400 | 36637 | 3.06 | | |
| Replicates | 35309.7 | 36141.2 | 37728.2 | 37369.8 | | | | | |
| MBLKF1-196429 | | | UNK | 06/27/23 04:46:35 pm | -0.011 | 76 | 46.98 | | |
| Replicates | 78.0 | 45.4 | 56.0 | 124.2 | | | | | |

| Sample Name | | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CCV | | | | | UNK | 06/27/23 04:49:01 pm | 5.170 | 35073 | 0.40 | | |
| | Replicates | 34874.8 | 35076.9 | 35167.3 | 35171.7 | | | | | | |
| CCB | | | | | UNK | 06/27/23 04:50:45 pm | -0.019 | 21 | 8.85 | | |
| | Replicates | 26.1 | 24.1 | 29.1 | 3.9 | | | | | | |
| HS23060797-10 | | | | | UNK | 06/27/23 04:52:27 pm | -0.002 | 137 | 178.58 | | |
| | Replicates | 140.8 | 168.7 | 111.5 | 125.1 | | | | | | |
| HS23060925-01 | | | | | UNK | 06/27/23 04:54:09 pm | -0.011 | 78 | 37.31 | | |
| | Replicates | 103.1 | 98.0 | 61.4 | 48.0 | | | | | | |
| HS23060925-02 | | | | | UNK | 06/27/23 04:55:52 pm | -0.008 | 93 | 40.05 | | |
| | Replicates | 104.2 | 106.8 | 59.0 | 102.8 | | | | | | |
| HS23060925-03 | | | | | UNK | 06/27/23 04:57:35 pm | -0.015 | 46 | 7.84 | | |
| | Replicates | 38.3 | 41.2 | 56.2 | 49.6 | | | | | | |
| HS23060937-11 | | | | | UNK | 06/27/23 04:59:17 pm | -0.009 | 91 | 40.20 | | |
| | Replicates | 98.9 | 102.4 | 55.2 | 106.6 | | | | | | |
| HS23060937-13 | | | | | UNK | 06/27/23 05:01:00 pm | -0.011 | 77 | 51.39 | | |
| | Replicates | 38.0 | 95.7 | 120.3 | 55.5 | | | | | | |
| HS23061161-01 | | | | | UNK | 06/27/23 05:02:42 pm | -0.014 | 53 | 26.04 | | |
| | Replicates | 52.4 | 68.1 | 17.3 | 73.7 | | | | | | |
| HS23061161-02 | | | | | UNK | 06/27/23 05:04:25 pm | -0.005 | 120 | 99.13 | | |
| | Replicates | 101.2 | 137.1 | 87.9 | 152.7 | | | | | | |
| HS23061161-03 | | | | | UNK | 06/27/23 05:06:07 pm | -0.005 | 114 | 85.23 | | |
| | Replicates | 135.9 | 126.3 | 67.1 | 124.7 | | | | | | |
| HS23061161-03MS | | | | | UNK | 06/27/23 05:16:53 pm | 4.450 | 30231 | 0.42 | | |
| | Replicates | 30270.4 | 30084.5 | 30186.5 | 30382.1 | | | | | | |
| CCV | | | | | UNK | 06/27/23 05:22:10 pm | 4.850 | 32899 | 1.11 | | |
| | Replicates | 32452.6 | 32784.7 | 33068.3 | 33290.3 | | | | | | |
| CCB | | | | | UNK | 06/27/23 05:23:54 pm | -0.015 | 50 | 20.79 | | |
| | Replicates | 58.6 | 44.1 | 24.5 | 73.3 | | | | | | |
| HS23061161-03MSD | | | | | UNK | 06/27/23 05:25:36 pm | 4.910 | 33320 | 0.25 | | |
| | Replicates | 33202.4 | 33333.9 | 33396.5 | 33346.9 | | | | | | |
| HS23061161-04 | | | | | UNK | 06/27/23 05:27:19 pm | -0.013 | 64 | 18.27 | | |
| | Replicates | 82.2 | 54.2 | 70.6 | 47.2 | | | | | | |
| MBLK-196819 | | | | | UNK | 06/27/23 05:29:01 pm | -0.017 | 35 | 8.43 | | |
| | Replicates | 33.2 | 22.2 | 41.2 | 43.8 | | | | | | |
| LCS-196819 | | | | | UNK | 06/27/23 05:38:23 pm | 4.580 | 31083 | 0.27 | | |
| | Replicates | 30981.7 | 31057.5 | 31110.9 | 31180.9 | | | | | | |
| HS23061307-01 | | | | | UNK | 06/27/23 05:40:06 pm | -0.008 | 96 | 10.20 | | |
| | Replicates | 100.2 | 94.3 | 100.3 | 88.7 | | | | | | |

| Sample Name | | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HS23061307-01MS | | | | | UNK | 06/27/23 05:44:10 pm | 5.110 | 34678 | 0.29 | | |
| | Replicates | 34542.7 | 34665.8 | 34721.6 | 34781.4 | | | | | | |
| HS23061307-01MSD | | | | | UNK | 06/27/23 05:45:53 pm | 4.460 | 30273 | 1.07 | | |
| | Replicates | 29968.9 | 30081.5 | 30343.1 | 30697.1 | | | | | | |
| HS23061445-01 | | | | | UNK | 06/27/23 05:47:36 pm | -0.021 | 6 | 9.58 | | |
| | Replicates | 3.6 | 24.7 | -8.7 | 4.5 | | | | | | |
| HS23061523-01 | | | | | UNK | 06/27/23 05:49:18 pm | -0.007 | 106 | 42.50 | | |
| | Replicates | 108.9 | 82.8 | 128.4 | 105.0 | | | | | | |
| HS23061523-02 | | | | | UNK | 06/27/23 05:51:00 pm | -0.004 | 124 | 89.89 | | |
| | Replicates | 154.1 | 122.8 | 96.8 | 123.2 | | | | | | |
| CCV | | | | | UNK | 06/27/23 06:06:29 pm | 5.020 | 34091 | 1.03 | | |
| | Replicates | 33665.0 | 33979.0 | 34236.8 | 34481.2 | | | | | | |
| CCB | | | | | UNK | 06/27/23 06:08:13 pm | -0.018 | 30 | 19.03 | | |
| | Replicates | 37.1 | 54.3 | -0.3 | 30.7 | | | | | | |
| HS23061523-03 | | | | | UNK | 06/27/23 06:09:56 pm | -0.006 | 111 | 89.65 | | |
| | Replicates | 70.6 | 104.7 | 111.1 | 156.7 | | | | | | |
| HS23061548-01 | | | | | UNK | 06/27/23 06:11:39 pm | -0.006 | 112 | 39.46 | | |
| | Replicates | 102.0 | 133.6 | 101.8 | 112.0 | | | | | | |
| HS23061575-01 | | | | | UNK | 06/27/23 06:13:21 pm | -0.019 | 22 | 10.51 | | |
| | Replicates | 30.4 | 25.5 | 30.9 | 2.5 | | | | | | |
| HS23061586-01 | | | | | UNK | 06/27/23 06:15:03 pm | -0.008 | 96 | 48.59 | | |
| | Replicates | 81.4 | 119.1 | 65.7 | 116.9 | | | | | | |
| HS23061651-01 | | | | | UNK | 06/27/23 06:16:46 pm | -0.003 | 129 | 162.93 | | |
| | Replicates | 105.1 | 102.7 | 128.9 | 178.3 | | | | | | |
| HS23061651-02 | | | | | UNK | 06/27/23 06:18:28 pm | -0.006 | 112 | 67.82 | | |
| | Replicates | 128.4 | 96.6 | 139.0 | 84.0 | | | | | | |
| HS23061657-01 | | | | | UNK | 06/27/23 06:20:10 pm | 0.002 | 167 | 52.03 | | |
| | Replicates | 173.4 | 175.4 | 158.8 | 160.2 | | | | | | |
| HS23061659-01 | | | | | UNK | 06/27/23 06:21:53 pm | -0.010 | 85 | 19.75 | | |
| | Replicates | 83.1 | 67.9 | 96.1 | 93.7 | | | | | | |
| HS23061662-01 | | | | | UNK | 06/27/23 06:23:36 pm | -0.006 | 107 | 13.88 | | |
| | Replicates | 115.3 | 105.8 | 106.4 | 101.0 | | | | | | |
| HS23061664-01 | | | | | UNK | 06/27/23 06:25:19 pm | -0.004 | 126 | 106.54 | | |
| | Replicates | 119.2 | 144.6 | 147.8 | 92.2 | | | | | | |
| CCV | | | | | UNK | 06/27/23 06:31:25 pm | 4.970 | 33695 | 0.89 | | |
| | Replicates | 33312.6 | 33616.7 | 33849.1 | 34000.1 | | | | | | |
| CCB | | | | | UNK | 06/27/23 06:33:09 pm | -0.023 | -3 | 8.40 | | |
| | Replicates | -5.7 | -2.2 | 12.8 | -18.6 | | | | | | |

| Sample Name | | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK-196821 | | | | | UNK | 06/27/23 06:36:15 pm | -0.017 | 36 | 15.90 | | |
| Replicates | 28.2 | 21.9 | 32.5 | 62.7 | | | | | | | |
| LCS-196821 | | | | | UNK | 06/27/23 06:37:57 pm | 5.480 | 37162 | 0.78 | | |
| Replicates | 37152.8 | 37346.0 | 37389.0 | 36759.6 | | | | | | | |
| HS23060915-01 | | | | | UNK | 06/27/23 06:39:40 pm | -0.011 | 75 | 15.03 | | |
| Replicates | 79.5 | 69.1 | 62.1 | 87.9 | | | | | | | |
| HS23060915-01MS | | | | | UNK | 06/27/23 06:41:23 pm | 4.970 | 33738 | 0.76 | | |
| Replicates | 33388.0 | 33715.8 | 33877.6 | 33970.8 | | | | | | | |
| HS23060915-01MS | | | | | UNK | 06/27/23 06:43:05 pm | 4.920 | 33415 | 1.90 | | |
| Replicates | 33652.9 | 33822.1 | 33712.1 | 32473.9 | | | | | | | |
| HS23060915-02 | | | | | UNK | 06/27/23 06:44:48 pm | -0.013 | 64 | 12.79 | | |
| Replicates | 68.8 | 54.0 | 54.6 | 76.6 | | | | | | | |
| HS23060915-03 | | | | | UNK | 06/27/23 06:46:30 pm | -0.015 | 47 | 16.51 | | |
| Replicates | 33.5 | 32.8 | 68.2 | 53.4 | | | | | | | |
| HS23060915-04 | | | | | UNK | 06/27/23 06:48:13 pm | -0.003 | 127 | 241.68 | | |
| Replicates | 65.9 | 99.1 | 147.9 | 194.9 | | | | | | | |
| HS23060915-05 | | | | | UNK | 06/27/23 06:49:56 pm | -0.012 | 70 | 11.24 | | |
| Replicates | 68.0 | 83.8 | 65.0 | 65.2 | | | | | | | |
| HS23060915-06 | | | | | UNK | 06/27/23 06:51:39 pm | -0.013 | 61 | 41.54 | | |
| Replicates | 49.1 | 110.5 | 21.9 | 62.7 | | | | | | | |
| CCV | | | | | UNK | 06/27/23 06:59:03 pm | 5.080 | 34433 | 0.72 | | |
| Replicates | 34117.4 | 34377.1 | 34538.7 | 34697.5 | | | | | | | |
| CCB | | | | | UNK | 06/27/23 07:00:47 pm | -0.011 | 73 | 36.73 | | |
| Replicates | 93.3 | 74.0 | 32.6 | 92.2 | | | | | | | |
| HS23060915-07 | | | | | UNK | 06/27/23 07:05:55 pm | -0.008 | 93 | 20.50 | | |
| Replicates | 78.6 | 88.3 | 100.1 | 104.7 | | | | | | | |
| HS23060915-08 | | | | | UNK | 06/27/23 07:07:38 pm | -0.010 | 84 | 21.93 | | |
| Replicates | 83.5 | 74.4 | 74.8 | 105.2 | | | | | | | |
| HS23060915-09 | | | | | UNK | 06/27/23 07:09:21 pm | -0.006 | 111 | 23.90 | | |
| Replicates | 113.9 | 121.4 | 110.8 | 99.0 | | | | | | | |
| HS23060915-10 | | | | | UNK | 06/27/23 07:11:03 pm | 0.029 | 347 | 6.32 | | |
| Replicates | 355.2 | 338.5 | 333.9 | 359.3 | | | | | | | |
| HS23060915-12 | | | | | UNK | 06/27/23 07:12:46 pm | -0.010 | 85 | 11.47 | | |
| Replicates | 91.7 | 84.7 | 74.9 | 89.5 | | | | | | | |
| HS23060937-11 | | | | | UNK | 06/27/23 07:14:29 pm | 0.004 | 176 | 66.32 | | |
| Replicates | 151.1 | 189.7 | 180.5 | 182.5 | | | | | | | |
| HS23060937-13 | | | | | UNK | 06/27/23 07:16:11 pm | -0.020 | 18 | 9.93 | | |
| Replicates | 33.3 | 18.9 | 1.1 | 17.1 | | | | | | | |

| Sample Name | | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HS23061088-01 | | | | | UNK | 06/27/23 07:17:54 pm | 0.017 | 262 | 20.18 | | |
| | Replicates | 247.9 | 242.9 | 264.1 | 292.9 | | | | | | |
| HS23061088-02 | | | | | UNK | 06/27/23 07:19:36 pm | -0.008 | 97 | 31.81 | | |
| | Replicates | 92.4 | 92.5 | 121.7 | 82.9 | | | | | | |
| HS23061088-03 | | | | | UNK | 06/27/23 07:21:19 pm | -0.003 | 129 | 42.02 | | |
| | Replicates | 136.6 | 134.4 | 126.6 | 116.4 | | | | | | |
| CCV | | | | | UNK | 06/27/23 07:27:48 pm | 5.010 | 33993 | 0.70 | | |
| | Replicates | 33695.8 | 33917.4 | 34123.0 | 34236.8 | | | | | | |
| CCB | | | | | UNK | 06/27/23 07:29:32 pm | -0.010 | 84 | 13.09 | | |
| | Replicates | 76.8 | 91.0 | 91.8 | 76.0 | | | | | | |
| HS23061088-04 | | | | | UNK | 06/27/23 07:32:25 pm | -0.003 | 129 | 93.24 | | |
| | Replicates | 99.4 | 133.4 | 135.2 | 146.2 | | | | | | |
| HS23061088-05 | | | | | UNK | 06/27/23 07:34:08 pm | 0.004 | 178 | 49.26 | | |
| | Replicates | 171.0 | 183.8 | 193.4 | 162.8 | | | | | | |
| MBLK-196820 | | | | | UNK | 06/27/23 07:35:51 pm | -0.012 | 72 | 23.31 | | |
| | Replicates | 65.3 | 76.1 | 94.9 | 51.7 | | | | | | |
| LCS-196820 | | | | | UNK | 06/27/23 07:56:51 pm | 5.030 | 34138 | 1.08 | | |
| | Replicates | 33665.0 | 34057.4 | 34315.8 | 34514.0 | | | | | | |
| HS23060999-01 | | | | | UNK | 06/27/23 07:58:34 pm | -0.016 | 40 | 17.75 | | |
| | Replicates | 28.3 | 68.4 | 39.2 | 26.0 | | | | | | |
| HS23060999-02 | | | | | UNK | 06/27/23 08:00:17 pm | -0.011 | 77 | 13.21 | | |
| | Replicates | 88.3 | 65.7 | 72.9 | 80.3 | | | | | | |
| HS23060999-02MS | | | | | UNK | 06/27/23 08:03:59 pm | 4.970 | 33707 | 0.55 | | |
| | Replicates | 33475.3 | 33681.1 | 33745.1 | 33925.3 | | | | | | |
| HS23060999-02MSD | | | | | UNK | 06/27/23 08:07:37 pm | 4.990 | 33867 | 0.53 | | |
| | Replicates | 33613.0 | 33876.4 | 33962.0 | 34015.8 | | | | | | |
| HS23060999-04 | | | | | UNK | 06/27/23 08:09:19 pm | -0.007 | 105 | 43.92 | | |
| | Replicates | 76.2 | 112.0 | 110.2 | 121.6 | | | | | | |
| HS23060999-05 | | | | | UNK | 06/27/23 08:11:02 pm | -0.013 | 64 | 19.91 | | |
| | Replicates | 45.9 | 62.7 | 61.9 | 87.3 | | | | | | |
| CCV | | | | | UNK | 06/27/23 08:12:46 pm | 5.010 | 34020 | 0.82 | | |
| | Replicates | 33648.3 | 33991.3 | 34142.7 | 34299.5 | | | | | | |
| CCB | | | | | UNK | 06/27/23 08:14:30 pm | -0.031 | -60 | 7.72 | | |
| | Replicates | -67.1 | -42.1 | -79.3 | -52.9 | | | | | | |
| HS23060999-06 | | | | | UNK | 06/27/23 08:20:15 pm | 0.002 | 162 | 43.72 | | |
| | Replicates | 158.7 | 168.4 | 161.6 | 157.4 | | | | | | |
| HS23060999-07 | | | | | UNK | 06/27/23 08:21:58 pm | -0.005 | 120 | 76.04 | | |
| | Replicates | 149.1 | 95.7 | 126.1 | 108.1 | | | | | | |

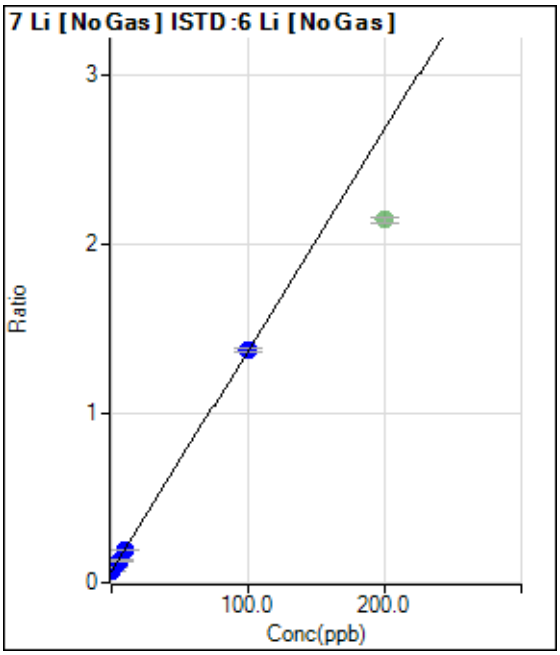
| Sample Name | | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HS23061096-01 | | | | | UNK | 06/27/23 08:23:41 pm | -0.007 | 103 | 57.59 | | |
| | Replicates | 106.7 | 97.6 | 71.6 | 137.2 | | | | | | |
| HS23061096-02 | | | | | UNK | 06/27/23 08:25:23 pm | -0.006 | 111 | 62.41 | | |
| | Replicates | 112.4 | 144.1 | 86.3 | 101.3 | | | | | | |
| HS23061096-03 | | | | | UNK | 06/27/23 08:27:06 pm | -0.006 | 107 | 46.86 | | |
| | Replicates | 96.8 | 112.1 | 86.7 | 133.1 | | | | | | |
| HS23061096-05 | | | | | UNK | 06/27/23 08:28:49 pm | -0.014 | 56 | 14.07 | | |
| | Replicates | 49.2 | 63.0 | 41.0 | 70.4 | | | | | | |
| HS23061096-06 | | | | | UNK | 06/27/23 08:30:32 pm | -0.016 | 41 | 12.56 | | |
| | Replicates | 26.7 | 48.3 | 33.3 | 56.7 | | | | | | |
| HS23061096-09 | | | | | UNK | 06/27/23 08:32:15 pm | -0.004 | 126 | 105.87 | | |
| | Replicates | 125.1 | 139.2 | 149.4 | 90.8 | | | | | | |
| MBLKT6-196775 | | | | | UNK | 06/27/23 08:33:58 pm | -0.009 | 88 | 18.87 | | |
| | Replicates | 95.4 | 76.9 | 100.1 | 78.3 | | | | | | |
| HS23061485-01 | | | | | UNK | 06/27/23 08:35:41 pm | -0.008 | 94 | 23.46 | | |
| | Replicates | 90.3 | 107.4 | 101.8 | 77.8 | | | | | | |
| CCV | | | | | UNK | 06/27/23 08:40:51 pm | 4.520 | 30649 | 1.84 | | |
| | Replicates | 29807.0 | 30882.0 | 30933.2 | 30973.8 | | | | | | |
| CCB | | | | | UNK | 06/27/23 08:42:34 pm | -0.017 | 38 | 18.93 | | |
| | Replicates | 57.2 | 55.5 | 16.9 | 22.7 | | | | | | |
| HS23061615-01 | | | | | UNK | 06/27/23 08:45:30 pm | -0.013 | 60 | 20.37 | | |
| | Replicates | 42.4 | 63.5 | 84.3 | 49.9 | | | | | | |
| HS23061615-02 | | | | | UNK | 06/27/23 08:47:13 pm | -0.011 | 78 | 38.28 | | |
| | Replicates | 117.3 | 76.4 | 62.4 | 55.4 | | | | | | |
| CCV | | | | | UNK | 06/27/23 09:05:12 pm | 5.060 | 34327 | 1.09 | | |
| | Replicates | 33872.9 | 34212.3 | 34481.1 | 34743.5 | | | | | | |
| CCB | | | | | UNK | 06/27/23 09:06:56 pm | -0.013 | 62 | 25.53 | | |
| | Replicates | 89.4 | 66.5 | 55.7 | 35.1 | | | | | | |

Calibration for 092_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062823A.b\
Analysis File: 062823A.batch.bin
DA Date-Time: 6/28/2023 1:34:55 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 085CALB.d | CAL BLK | 6/28/2023 1:20:35 PM |
| 2 | 086CALS.d | 2/10/200 | 6/28/2023 1:22:27 PM |
| 3 | 087CALS.d | 5/25/500 | 6/28/2023 1:24:19 PM |
| 4 | 088CALS.d | 10/50/100 | 6/28/2023 1:26:11 PM |
| 5 | 089CALS.d | 100/500/10K | 6/28/2023 1:28:03 PM |
| 6 | 090CALS.d | 200/1000/20K | 6/28/2023 1:29:52 PM |

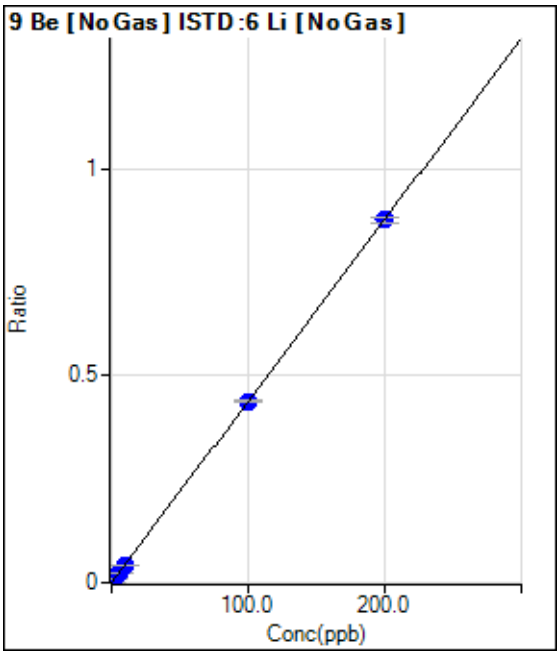
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 31333.11 | 0.0665 | P | 0.7 |
| 2 | ☐ | 2.000 | 1.969 | 43811.16 | 0.0922 | P | 1.7 |
| 3 | ☐ | 5.000 | 4.884 | 61762.87 | 0.1302 | P | 0.9 |
| 4 | ☐ | 10.000 | 9.842 | 91539.93 | 0.1949 | P | 0.5 |
| 5 | ☐ | 100.000 | 100.022 | 613673.22 | 1.3716 | P | 1.5 |
| 6 | ☑ | 200.000 | | 926336.49 | 2.1446 | A | 1.3 |

y = 0.0130 * x + 0.0665
R = 1.0000
DL = 0.1041
BEC = 5.098

Weight: <None>
Min Conc: <None>

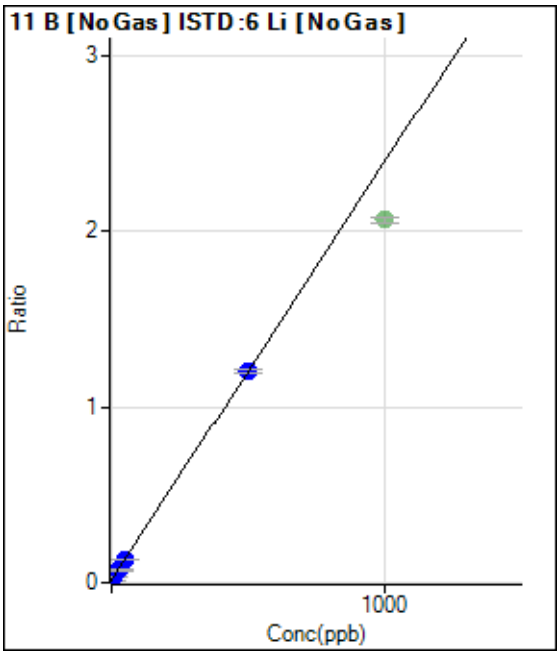



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 30.00 | 0.0001 | P | 1.3 |
| 2 | ☐ | 2.000 | 1.930 | 4052.28 | 0.0085 | P | 1.7 |
| 3 | ☐ | 5.000 | 4.915 | 10252.13 | 0.0216 | P | 2.9 |
| 4 | ☐ | 10.000 | 9.728 | 20064.37 | 0.0427 | P | 1.9 |
| 5 | ☐ | 100.000 | 100.070 | 196430.11 | 0.4390 | P | 1.1 |
| 6 | ☐ | 200.000 | 199.981 | 378841.74 | 0.8773 | P | 1.8 |

y = 0.0044 * x + 6.3698E-005
R = 1.0000
DL = 0.0005568
BEC = 0.01452

Weight: <None>
Min Conc: <None>

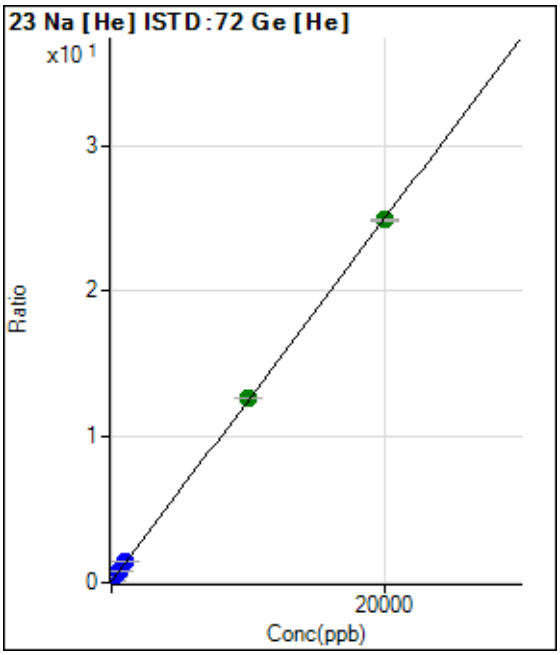
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6970.11 | 0.0148 | P | 3.5 |
| 2 | ☐ | 10.000 | 9.349 | 17607.78 | 0.0371 | P | 1.7 |
| 3 | ☐ | 25.000 | 24.047 | 34164.87 | 0.0721 | P | 3.2 |
| 4 | ☐ | 50.000 | 48.896 | 61612.69 | 0.1312 | P | 0.9 |
| 5 | ☐ | 500.000 | 500.171 | 539390.25 | 1.2056 | P | 1.6 |
| 6 | ☑ | 1000.000 | | 892704.81 | 2.0671 | A | 1.7 |

y = 0.0024 * x + 0.0148
R = 1.0000
DL = 0.6567
BEC = 6.217

Weight: <None>
Min Conc: <None>

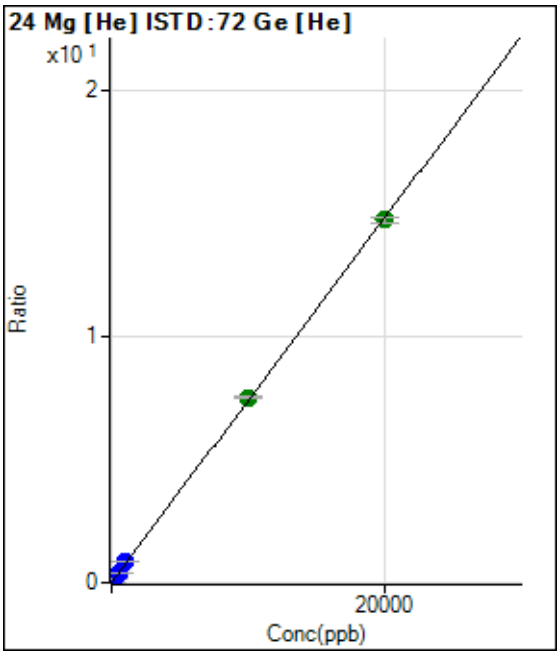



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 35468.72 | 0.0750 | P | 3.2 |
| 2 | ☐ | 200.000 | 222.904 | 165302.69 | 0.3524 | P | 0.5 |
| 3 | ☐ | 500.000 | 558.268 | 363672.34 | 0.7696 | P | 1.0 |
| 4 | ☐ | 1000.000 | 1112.700 | 682270.12 | 1.4593 | P | 0.2 |
| 5 | ☐ | 10000.000 | 10093.868 | 5782029.50 | 12.6327 | A | 0.5 |
| 6 | ☐ | 20000.000 | 19945.745 | 10975425.67 | 24.8892 | A | 0.7 |

y = 0.0012 * x + 0.0750
R = 1.0000
DL = 5.824
BEC = 60.32

Weight: <None>
Min Conc: <None>

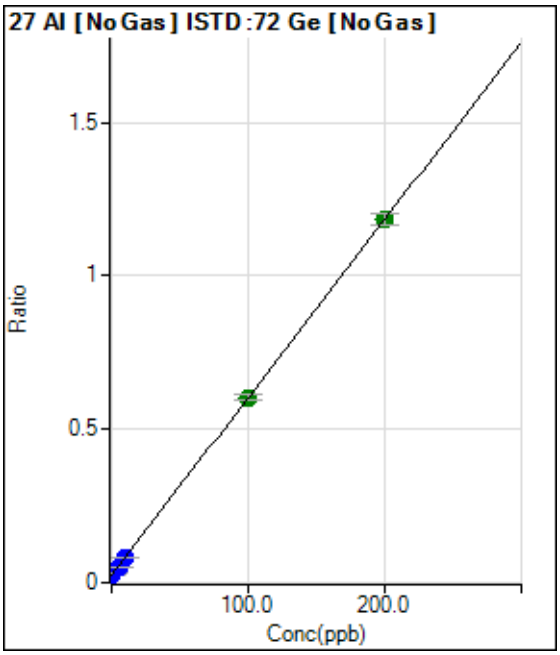
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1973.51 | 0.0042 | P | 10.1 |
| 2 | ☐ | 200.000 | 230.506 | 82017.10 | 0.1748 | P | 0.4 |
| 3 | ☐ | 500.000 | 565.884 | 199967.46 | 0.4231 | P | 1.5 |
| 4 | ☐ | 1000.000 | 1131.190 | 393465.30 | 0.8416 | P | 0.3 |
| 5 | ☐ | 10000.000 | 10165.700 | 3446519.84 | 7.5299 | A | 0.7 |
| 6 | ☐ | 20000.000 | 19908.638 | 6500638.24 | 14.7426 | A | 1.5 |

y = 7.4030E-004 * x + 0.0042
R = 0.9999
DL = 1.706
BEC = 5.642

Weight: <None>
Min Conc: <None>

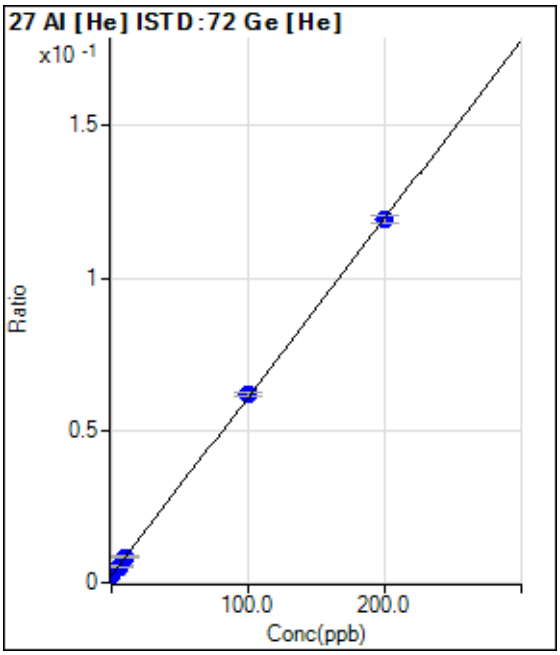



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 37310.29 | 0.0244 | P | 4.4 |
| 2 | ☐ | 2.000 | 1.770 | 54128.67 | 0.0346 | P | 2.6 |
| 3 | ☐ | 5.000 | 4.309 | 77324.11 | 0.0493 | P | 1.1 |
| 4 | ☐ | 10.000 | 9.518 | 123928.05 | 0.0795 | P | 1.4 |
| 5 | ☐ | 100.000 | 100.151 | 915608.66 | 0.6042 | A | 2.6 |
| 6 | ☐ | 200.000 | 199.968 | 1721783.46 | 1.1820 | A | 3.2 |

y = 0.0058 * x + 0.0244
R = 1.0000
DL = 0.5506
BEC = 4.21

Weight: <None>
Min Conc: <None>

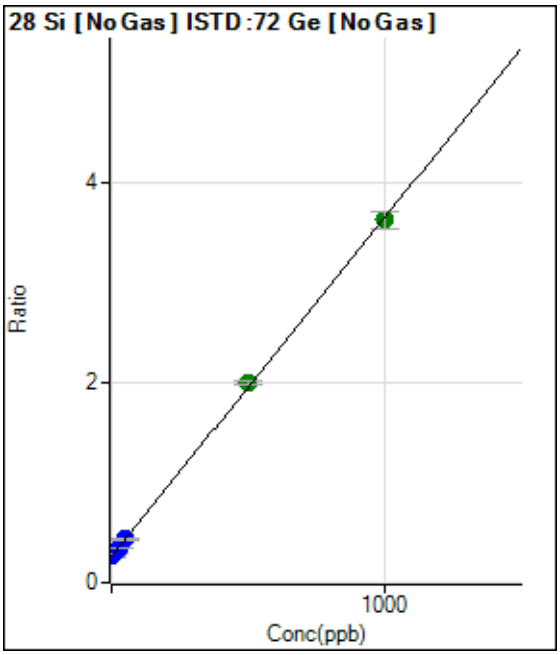
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1123.40 | 0.0024 | P | 9.9 |
| 2 | ☐ | 2.000 | 2.505 | 1803.52 | 0.0038 | P | 6.1 |
| 3 | ☐ | 5.000 | 4.881 | 2473.60 | 0.0052 | P | 10.8 |
| 4 | ☐ | 10.000 | 9.968 | 3840.61 | 0.0082 | P | 7.9 |
| 5 | ☐ | 100.000 | 101.392 | 28255.68 | 0.0617 | P | 1.6 |
| 6 | ☐ | 200.000 | 199.304 | 52488.90 | 0.1190 | P | 2.1 |

y = 5.8537E-004 * x + 0.0024
R = 1.0000
DL = 1.21
BEC = 4.064

Weight: <None>
Min Conc: <None>

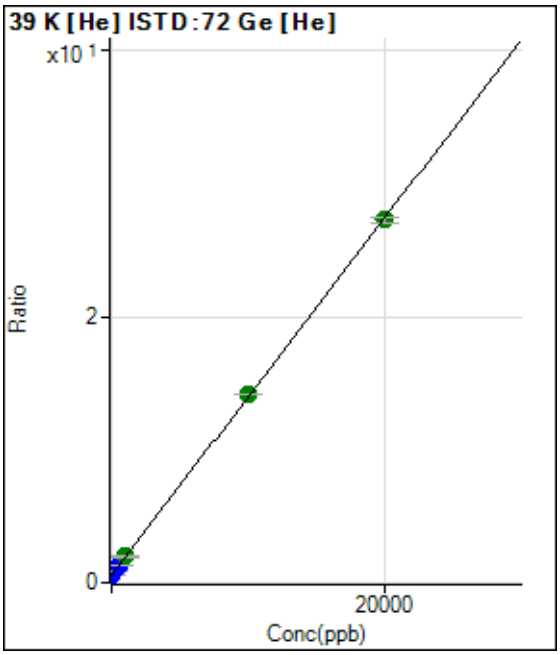



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 401993.66 | 0.2625 | P | 2.4 |
| 2 | ☐ | 10.000 | 7.947 | 452496.86 | 0.2894 | P | 1.8 |
| 3 | ☐ | 25.000 | 23.586 | 536806.18 | 0.3424 | P | 1.2 |
| 4 | ☐ | 50.000 | 50.829 | 677873.76 | 0.4347 | P | 0.9 |
| 5 | ☐ | 500.000 | 512.807 | 3031821.10 | 2.0001 | A | 1.0 |
| 6 | ☐ | 1000.000 | 993.611 | 5284706.69 | 3.6293 | A | 4.6 |

y = 0.0034 * x + 0.2625
R = 0.9999
DL = 5.477
BEC = 77.46

Weight: <None>
Min Conc: <None>

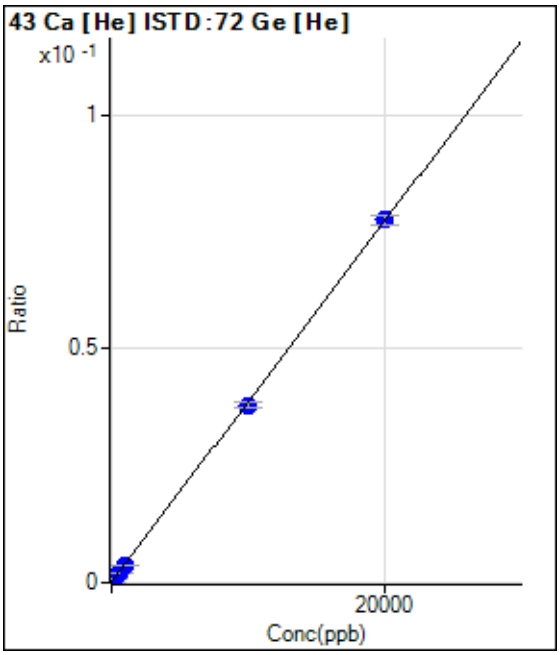
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 266702.61 | 0.5642 | P | 1.7 |
| 2 | ☐ | 200.000 | 216.397 | 400910.98 | 0.8546 | P | 1.7 |
| 3 | ☐ | 500.000 | 539.893 | 609025.49 | 1.2888 | P | 0.8 |
| 4 | ☐ | 1000.000 | 1039.848 | 916179.15 | 1.9597 | A | 1.3 |
| 5 | ☐ | 10000.000 | 10176.153 | 6508704.28 | 14.2205 | A | 0.1 |
| 6 | ☐ | 20000.000 | 19908.770 | 12029113.57 | 27.2815 | A | 1.4 |

y = 0.0013 * x + 0.5642
R = 0.9999
DL = 21.05
BEC = 420.4

Weight: <None>
Min Conc: <None>

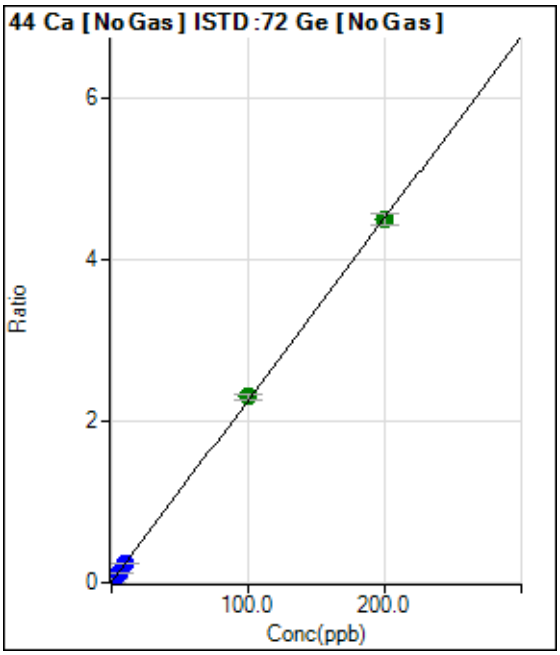



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 63.33 | 0.0001 | P | 49.0 |
| 2 | ☐ | 200.000 | 159.133 | 350.01 | 0.0007 | P | 20.7 |
| 3 | ☐ | 500.000 | 516.115 | 1003.39 | 0.0021 | P | 12.5 |
| 4 | ☐ | 1000.000 | 906.733 | 1696.80 | 0.0036 | P | 1.9 |
| 5 | ☐ | 10000.000 | 9830.276 | 17407.87 | 0.0380 | P | 3.1 |
| 6 | ☐ | 20000.000 | 20089.531 | 34209.48 | 0.0776 | P | 2.6 |

y = 3.8556E-006 * x + 1.3327E-004
R = 0.9999
DL = 50.82
BEC = 34.57

Weight: <None>
Min Conc: <None>

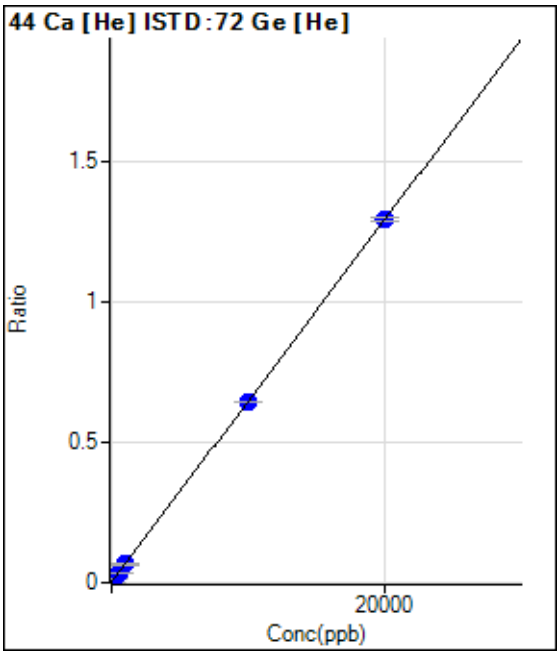
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 14401.11 | 0.0094 | P | 2.9 |
| 2 | ☐ | 2.000 | 2.050 | 86866.51 | 0.0556 | P | 3.9 |
| 3 | ☐ | 5.000 | 5.076 | 193992.25 | 0.1237 | P | 1.1 |
| 4 | ☐ | 10.000 | 10.283 | 375802.72 | 0.2410 | P | 1.5 |
| 5 | ☐ | 100.000 | 101.698 | 3485444.74 | 2.3000 | A | 2.7 |
| 6 | ☐ | 200.000 | 199.134 | 6546946.98 | 4.4946 | A | 3.3 |

y = 0.0225 * x + 0.0094
R = 0.9999
DL = 0.0369
BEC = 0.4175

Weight: <None>
Min Conc: <None>

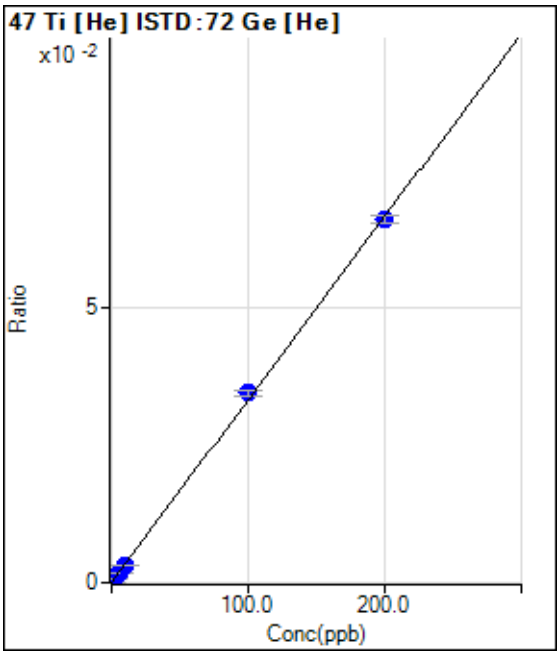



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 620.03 | 0.0013 | P | 10.7 |
| 2 | ☐ | 200.000 | 204.479 | 6805.14 | 0.0145 | P | 1.9 |
| 3 | ☐ | 500.000 | 504.844 | 16009.62 | 0.0339 | P | 3.7 |
| 4 | ☐ | 1000.000 | 995.022 | 30627.77 | 0.0655 | P | 3.6 |
| 5 | ☐ | 10000.000 | 9988.002 | 295535.70 | 0.6457 | P | 0.3 |
| 6 | ☐ | 20000.000 | 20006.082 | 569717.43 | 1.2920 | P | 1.0 |

y = 6.4517E-005 * x + 0.0013
R = 1.0000
DL = 6.544
BEC = 20.33

Weight: <None>
Min Conc: <None>

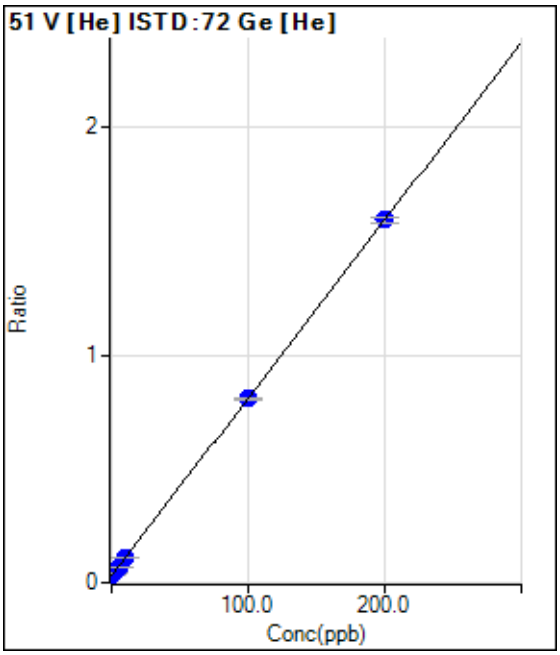
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 20.00 | 0.0000 | P | 1.6 |
| 2 | ☐ | 2.000 | 1.818 | 303.34 | 0.0006 | P | 32.1 |
| 3 | ☐ | 5.000 | 4.972 | 800.04 | 0.0017 | P | 11.4 |
| 4 | ☐ | 10.000 | 9.280 | 1460.11 | 0.0031 | P | 7.8 |
| 5 | ☐ | 100.000 | 103.476 | 15742.57 | 0.0344 | P | 2.8 |
| 6 | ☐ | 200.000 | 198.300 | 29054.33 | 0.0659 | P | 2.0 |

y = 3.3201E-004 * x + 4.2313E-005
R = 0.9998
DL = 0.006072
BEC = 0.1274

Weight: <None>
Min Conc: <None>

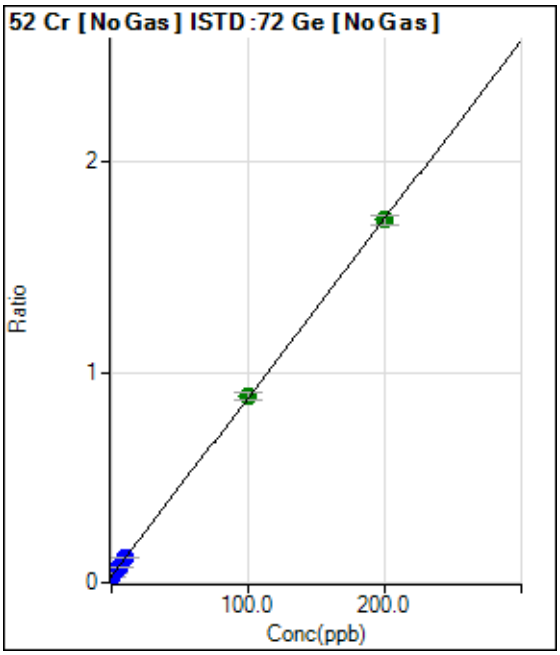



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 14270.81 | 0.0302 | P | 2.9 |
| 2 | ☐ | 2.000 | 2.039 | 21635.98 | 0.0461 | P | 1.1 |
| 3 | ☐ | 5.000 | 4.935 | 32490.57 | 0.0687 | P | 0.5 |
| 4 | ☐ | 10.000 | 9.847 | 50077.75 | 0.1071 | P | 1.2 |
| 5 | ☐ | 100.000 | 99.540 | 369705.97 | 0.8077 | P | 0.8 |
| 6 | ☐ | 200.000 | 200.239 | 702976.06 | 1.5943 | P | 1.6 |

y = 0.0078 * x + 0.0302
R = 1.0000
DL = 0.336
BEC = 3.866

Weight: <None>
Min Conc: <None>

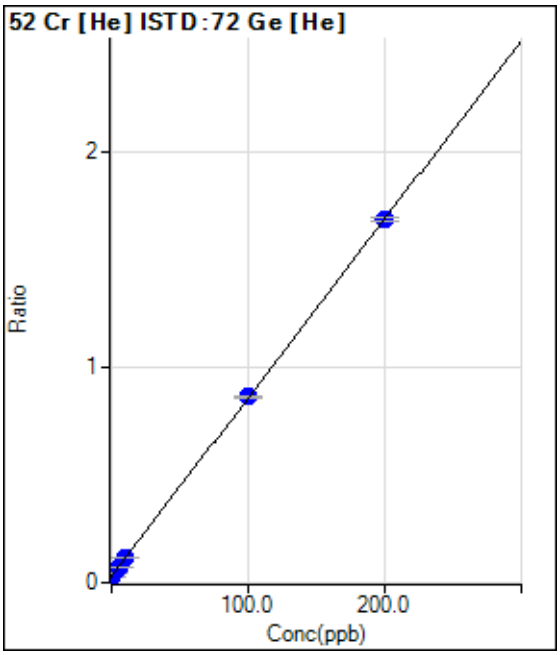
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 47168.26 | 0.0308 | P | 1.6 |
| 2 | ☐ | 2.000 | 1.927 | 73717.79 | 0.0471 | P | 2.0 |
| 3 | ☐ | 5.000 | 4.903 | 113516.84 | 0.0724 | P | 1.7 |
| 4 | ☐ | 10.000 | 10.108 | 181800.36 | 0.1166 | P | 0.6 |
| 5 | ☐ | 100.000 | 100.987 | 1345473.94 | 0.8879 | A | 4.0 |
| 6 | ☐ | 200.000 | 199.504 | 2511632.88 | 1.7241 | A | 2.8 |

y = 0.0085 * x + 0.0308
R = 1.0000
DL = 0.1737
BEC = 3.628

Weight: <None>
Min Conc: <None>

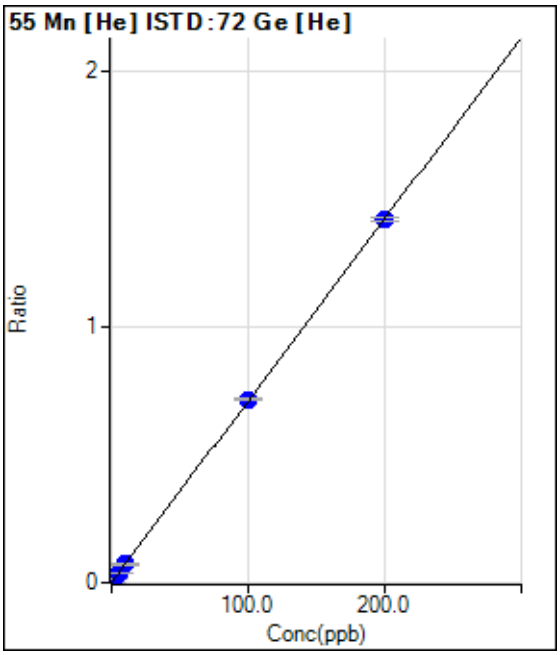



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 14160.90 | 0.0300 | P | 3.8 |
| 2 | ☐ | 2.000 | 2.116 | 22295.05 | 0.0475 | P | 1.5 |
| 3 | ☐ | 5.000 | 5.097 | 34146.20 | 0.0722 | P | 1.4 |
| 4 | ☐ | 10.000 | 10.365 | 54210.66 | 0.1160 | P | 0.9 |
| 5 | ☐ | 100.000 | 100.573 | 395608.00 | 0.8643 | P | 0.9 |
| 6 | ☐ | 200.000 | 199.692 | 743697.17 | 1.6866 | P | 0.9 |

y = 0.0083 * x + 0.0300
R = 1.0000
DL = 0.4071
BEC = 3.612

Weight: <None>
Min Conc: <None>

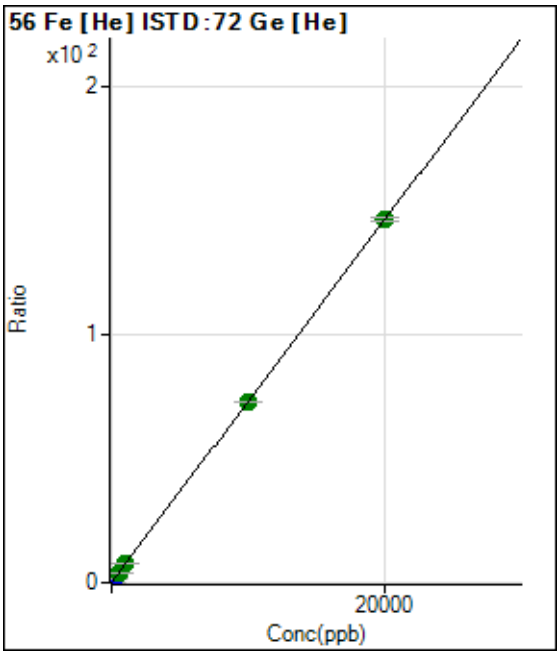
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 363.34 | 0.0008 | P | 5.4 |
| 2 | ☐ | 2.000 | 2.020 | 7095.32 | 0.0151 | P | 4.9 |
| 3 | ☐ | 5.000 | 4.981 | 17094.29 | 0.0362 | P | 1.9 |
| 4 | ☐ | 10.000 | 10.013 | 33624.95 | 0.0719 | P | 1.8 |
| 5 | ☐ | 100.000 | 100.760 | 328075.21 | 0.7168 | P | 0.5 |
| 6 | ☐ | 200.000 | 199.620 | 625804.07 | 1.4193 | P | 1.2 |

y = 0.0071 * x + 7.6895E-004
R = 1.0000
DL = 0.01755
BEC = 0.1082

Weight: <None>
Min Conc: <None>

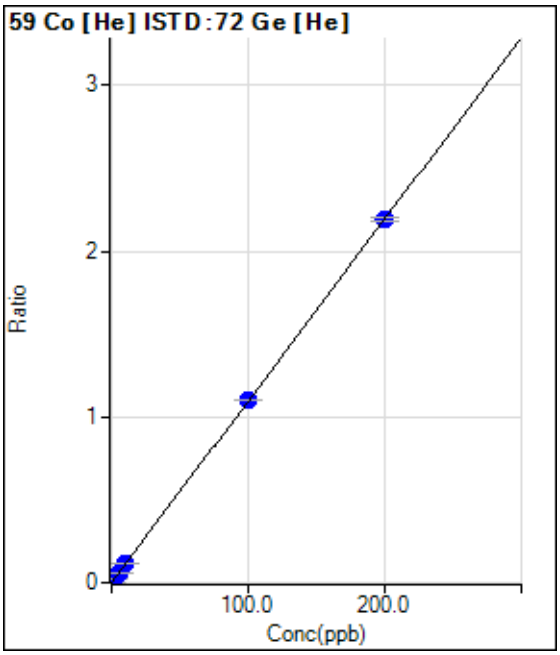



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 45345.60 | 0.0959 | P | 0.6 |
| 2 | ☐ | 200.000 | 208.356 | 758106.08 | 1.6160 | P | 0.5 |
| 3 | ☐ | 500.000 | 518.027 | 1831651.28 | 3.8751 | A | 2.7 |
| 4 | ☐ | 1000.000 | 1017.454 | 3515075.36 | 7.5186 | A | 1.2 |
| 5 | ☐ | 10000.000 | 9983.930 | 33380627.84 | 72.9327 | A | 0.4 |
| 6 | ☐ | 20000.000 | 20006.628 | 64400254.04 | 146.0523 | A | 1.2 |

y = 0.0073 * x + 0.0959
R = 1.0000
DL = 0.2347
BEC = 13.15

Weight: <None>
Min Conc: <None>

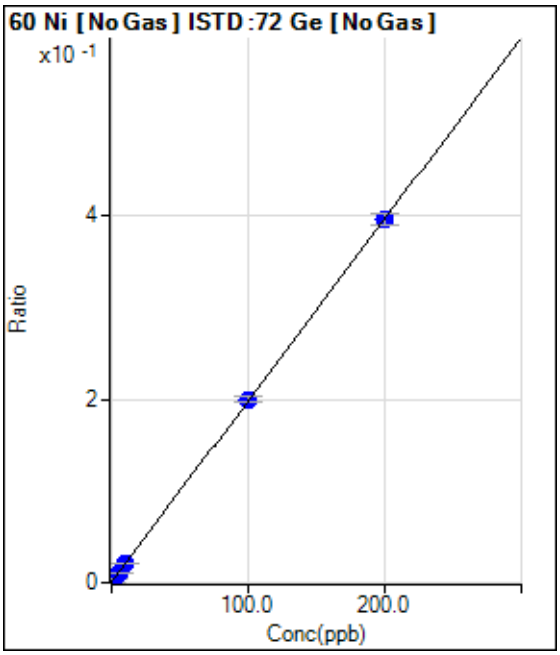
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 53.33 | 0.0001 | P | 48.0 |
| 2 | ☐ | 2.000 | 2.069 | 10687.72 | 0.0228 | P | 2.6 |
| 3 | ☐ | 5.000 | 5.036 | 26132.12 | 0.0553 | P | 1.5 |
| 4 | ☐ | 10.000 | 10.109 | 51842.03 | 0.1109 | P | 0.5 |
| 5 | ☐ | 100.000 | 100.495 | 504036.67 | 1.1013 | P | 0.7 |
| 6 | ☐ | 200.000 | 199.746 | 965108.81 | 2.1888 | P | 1.2 |

y = 0.0110 * x + 1.1326E-004
R = 1.0000
DL = 0.01489
BEC = 0.01034

Weight: <None>
Min Conc: <None>

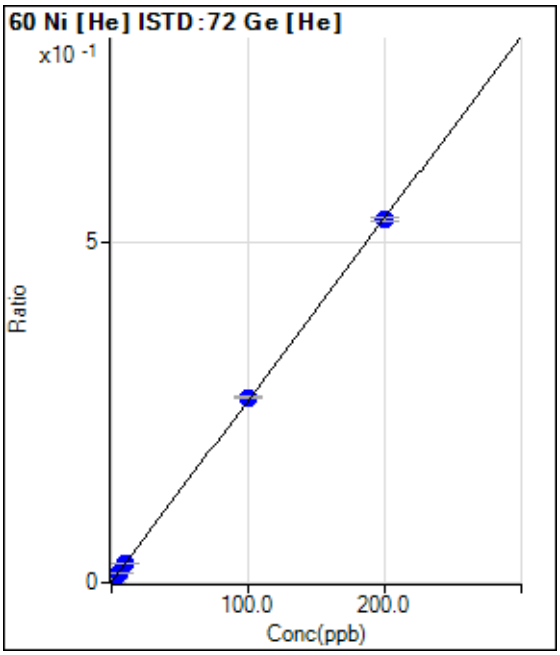



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 806.71 | 0.0005 | P | 7.7 |
| 2 | ☐ | 2.000 | 2.029 | 7108.63 | 0.0045 | P | 2.2 |
| 3 | ☐ | 5.000 | 5.073 | 16587.00 | 0.0106 | P | 3.0 |
| 4 | ☐ | 10.000 | 10.129 | 32118.05 | 0.0206 | P | 0.8 |
| 5 | ☐ | 100.000 | 100.674 | 303112.97 | 0.2000 | P | 2.6 |
| 6 | ☐ | 200.000 | 199.654 | 576993.92 | 0.3961 | P | 3.3 |

y = 0.0020 * x + 5.2665E-004
R = 1.0000
DL = 0.06139
BEC = 0.2658

Weight: <None>
Min Conc: <None>

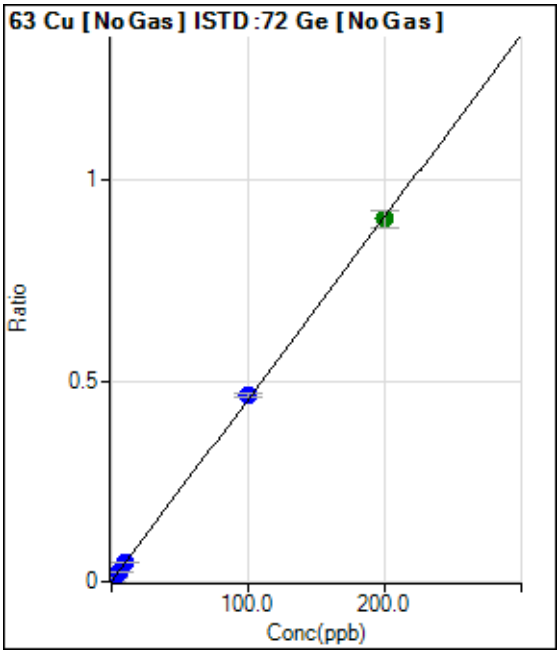
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 340.01 | 0.0007 | P | 17.7 |
| 2 | ☐ | 2.000 | 1.834 | 2640.30 | 0.0056 | P | 13.7 |
| 3 | ☐ | 5.000 | 4.838 | 6461.65 | 0.0137 | P | 3.9 |
| 4 | ☐ | 10.000 | 10.049 | 12916.35 | 0.0276 | P | 4.6 |
| 5 | ☐ | 100.000 | 101.703 | 124988.66 | 0.2731 | P | 1.0 |
| 6 | ☐ | 200.000 | 199.152 | 235477.58 | 0.5340 | P | 1.2 |

y = 0.0027 * x + 7.1923E-004
R = 0.9999
DL = 0.1429
BEC = 0.2686

Weight: <None>
Min Conc: <None>

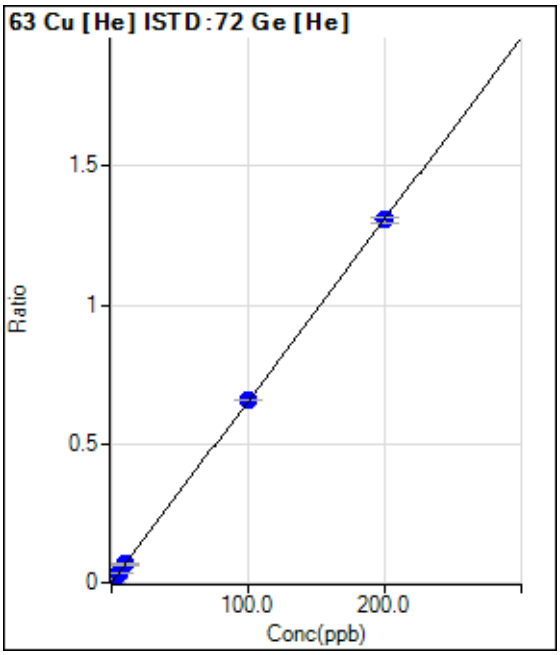



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1103.39 | 0.0007 | P | 22.9 |
| 2 | ☐ | 2.000 | 2.096 | 16006.36 | 0.0102 | P | 4.9 |
| 3 | ☐ | 5.000 | 5.193 | 38106.99 | 0.0243 | P | 0.5 |
| 4 | ☐ | 10.000 | 10.375 | 74597.30 | 0.0478 | P | 0.9 |
| 5 | ☐ | 100.000 | 101.964 | 702891.53 | 0.4638 | P | 2.0 |
| 6 | ☐ | 200.000 | 198.994 | 1316742.45 | 0.9044 | A | 5.1 |

y = 0.0045 * x + 7.2142E-004
R = 0.9999
DL = 0.1092
BEC = 0.1589

Weight: <None>
Min Conc: <None>

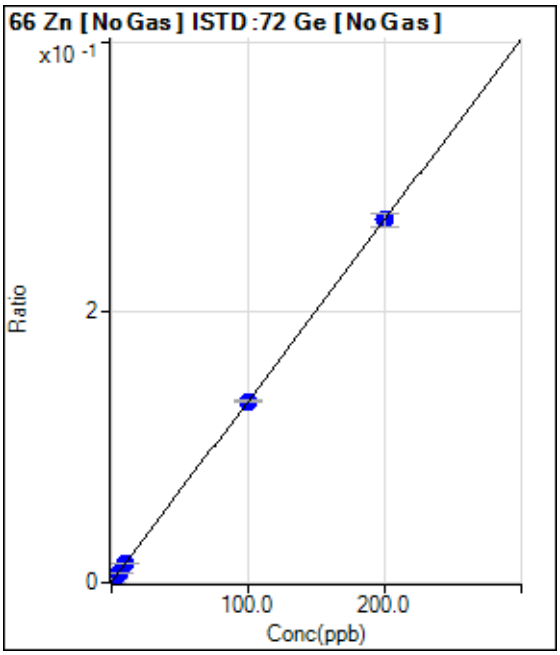
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 223.34 | 0.0005 | P | 30.2 |
| 2 | ☐ | 2.000 | 2.031 | 6448.31 | 0.0137 | P | 4.3 |
| 3 | ☐ | 5.000 | 5.036 | 15779.37 | 0.0334 | P | 0.7 |
| 4 | ☐ | 10.000 | 10.104 | 31095.87 | 0.0665 | P | 2.6 |
| 5 | ☐ | 100.000 | 100.460 | 300731.14 | 0.6571 | P | 0.6 |
| 6 | ☐ | 200.000 | 199.764 | 575912.69 | 1.3061 | P | 1.3 |

y = 0.0065 * x + 4.7131E-004
R = 1.0000
DL = 0.06536
BEC = 0.07211

Weight: <None>
Min Conc: <None>

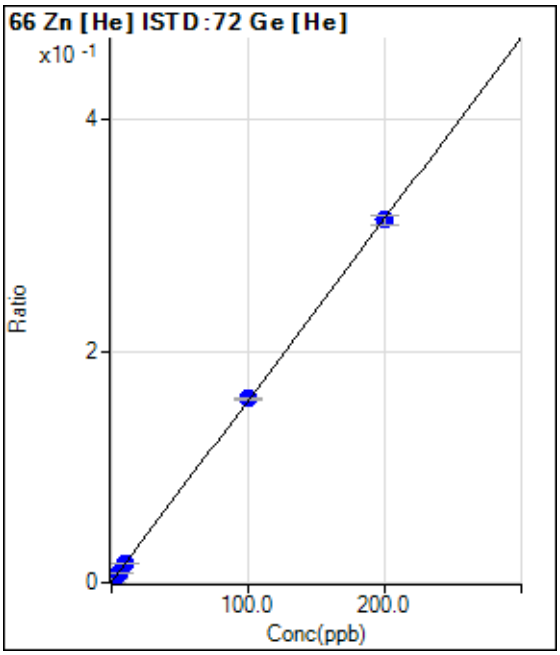



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 720.03 | 0.0005 | P | 18.8 |
| 2 | ☐ | 2.000 | 1.906 | 4727.56 | 0.0030 | P | 1.9 |
| 3 | ☐ | 5.000 | 4.969 | 11164.77 | 0.0071 | P | 5.5 |
| 4 | ☐ | 10.000 | 9.929 | 21460.57 | 0.0138 | P | 0.4 |
| 5 | ☐ | 100.000 | 99.994 | 203626.65 | 0.1343 | P | 1.0 |
| 6 | ☐ | 200.000 | 200.008 | 390659.02 | 0.2682 | P | 3.5 |

y = 0.0013 * x + 4.7052E-004
R = 1.0000
DL = 0.1981
BEC = 0.3515

Weight: <None>
Min Conc: <None>

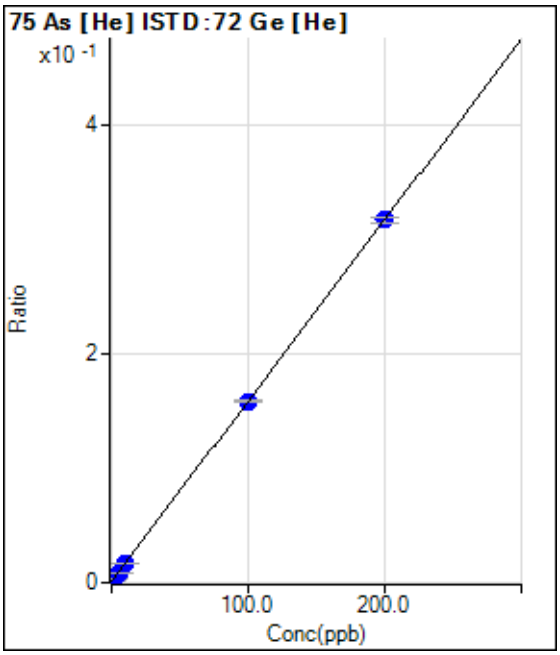
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 303.34 | 0.0006 | P | 21.7 |
| 2 | ☐ | 2.000 | 1.894 | 1693.47 | 0.0036 | P | 10.5 |
| 3 | ☐ | 5.000 | 5.074 | 4057.35 | 0.0086 | P | 7.7 |
| 4 | ☐ | 10.000 | 10.085 | 7685.66 | 0.0164 | P | 3.9 |
| 5 | ☐ | 100.000 | 101.002 | 72714.06 | 0.1589 | P | 1.2 |
| 6 | ☐ | 200.000 | 199.494 | 138077.52 | 0.3132 | P | 2.5 |

y = 0.0016 * x + 6.4132E-004
R = 1.0000
DL = 0.2668
BEC = 0.4094

Weight: <None>
Min Conc: <None>

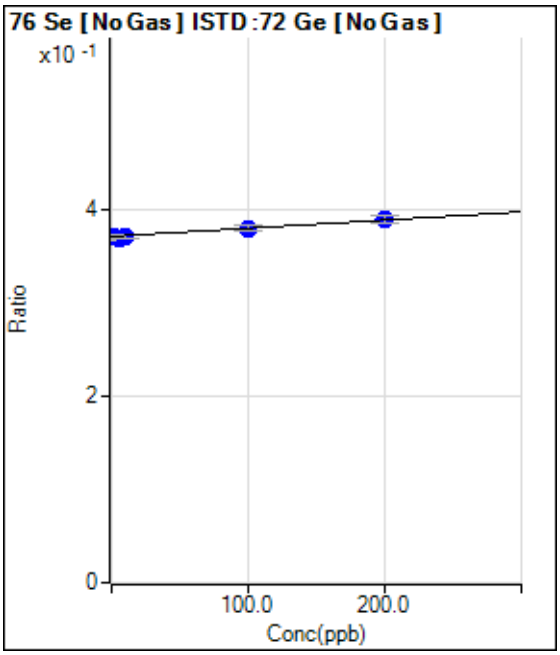



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 441.12 | 0.0009 | P | 7.0 |
| 2 | ☐ | 2.000 | 2.042 | 1953.49 | 0.0042 | P | 3.1 |
| 3 | ☐ | 5.000 | 4.767 | 4003.94 | 0.0085 | P | 3.9 |
| 4 | ☐ | 10.000 | 10.008 | 7835.64 | 0.0168 | P | 2.5 |
| 5 | ☐ | 100.000 | 99.831 | 72679.76 | 0.1588 | P | 1.2 |
| 6 | ☐ | 200.000 | 200.089 | 139928.56 | 0.3173 | P | 1.5 |

y = 0.0016 * x + 9.3336E-004
R = 1.0000
DL = 0.1248
BEC = 0.5902

Weight: <None>
Min Conc: <None>

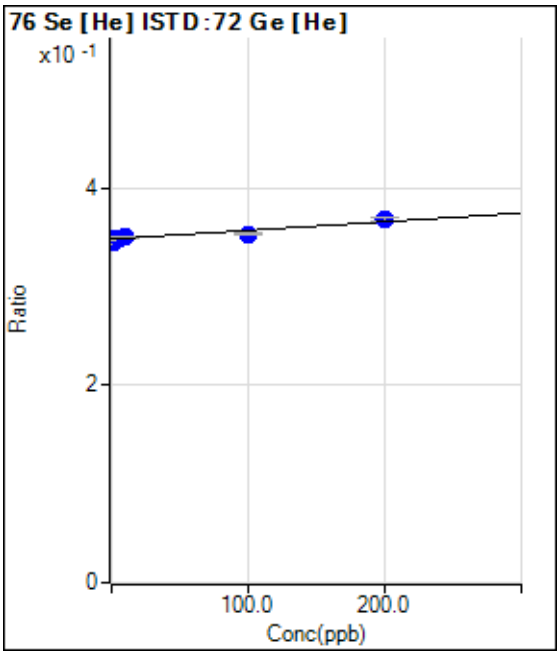
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 568501.64 | 0.3711 | P | 1.3 |
| 2 | ☐ | 2.000 | -3.266 | 579901.04 | 0.3708 | P | 0.6 |
| 3 | ☐ | 5.000 | -28.539 | 577972.49 | 0.3686 | P | 0.8 |
| 4 | ☐ | 10.000 | -5.148 | 578032.58 | 0.3707 | P | 0.8 |
| 5 | ☐ | 100.000 | 101.427 | 576000.14 | 0.3800 | P | 1.3 |
| 6 | ☐ | 200.000 | 200.935 | 566369.25 | 0.3887 | P | 2.1 |

y = 8.7580E-005 * x + 0.3711
R = 0.9909
DL = 163.8
BEC = 4237

Weight: <None>
Min Conc: <None>

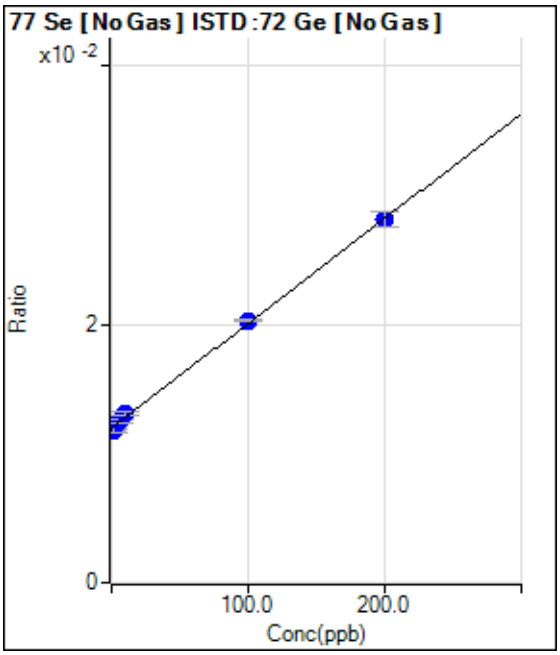



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 164672.49 | 0.3484 | P | 1.0 |
| 2 | ☐ | 2.000 | -45.274 | 161554.53 | 0.3444 | P | 0.9 |
| 3 | ☐ | 5.000 | 0.814 | 164675.33 | 0.3484 | P | 0.5 |
| 4 | ☐ | 10.000 | 19.504 | 163676.64 | 0.3501 | P | 0.2 |
| 5 | ☐ | 100.000 | 60.408 | 161881.57 | 0.3537 | P | 0.9 |
| 6 | ☐ | 200.000 | 219.898 | 162196.25 | 0.3678 | P | 0.9 |

y = 8.8260E-005 * x + 0.3484
R = 0.9607
DL = 123.5
BEC = 3947

Weight: <None>
Min Conc: <None>

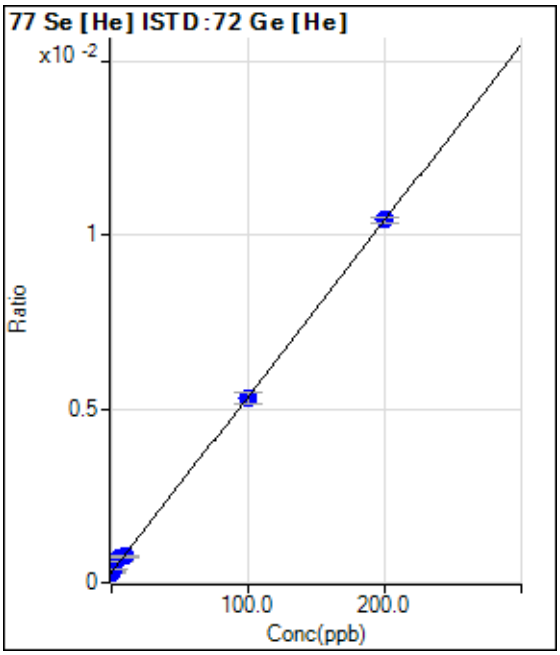
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 18336.08 | 0.0120 | P | 3.4 |
| 2 | ☐ | 2.000 | -3.303 | 18306.02 | 0.0117 | P | 2.9 |
| 3 | ☐ | 5.000 | 6.970 | 19661.35 | 0.0125 | P | 1.9 |
| 4 | ☐ | 10.000 | 13.402 | 20369.01 | 0.0131 | P | 2.1 |
| 5 | ☐ | 100.000 | 102.418 | 30742.09 | 0.0203 | P | 1.0 |
| 6 | ☐ | 200.000 | 198.624 | 40888.76 | 0.0281 | P | 4.3 |

y = 8.1076E-005 * x + 0.0120
R = 0.9992
DL = 15.24
BEC = 147.7

Weight: <None>
Min Conc: <None>

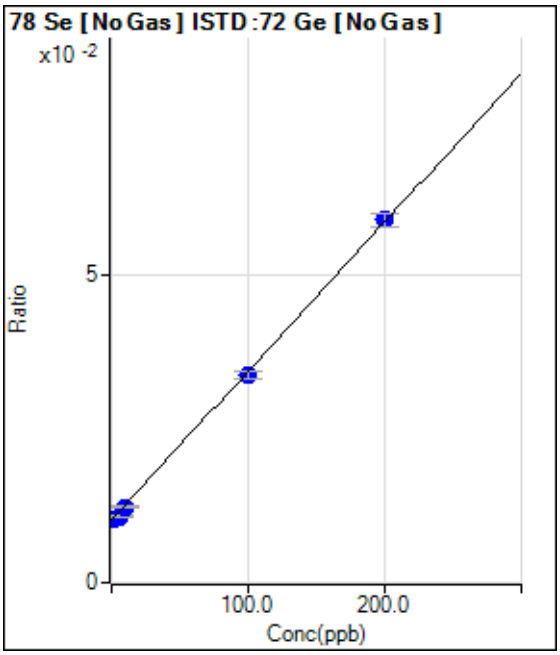



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 140.00 | 0.0003 | P | 13.0 |
| 2 | ☐ | 2.000 | 1.592 | 176.67 | 0.0004 | P | 8.2 |
| 3 | ☐ | 5.000 | 8.078 | 333.34 | 0.0007 | P | 21.3 |
| 4 | ☐ | 10.000 | 9.082 | 353.34 | 0.0008 | P | 3.0 |
| 5 | ☐ | 100.000 | 99.275 | 2436.93 | 0.0053 | P | 6.0 |
| 6 | ☐ | 200.000 | 200.335 | 4604.20 | 0.0104 | P | 1.6 |

y = 5.0641E-005 * x + 2.9584E-004
R = 0.9998
DL = 2.274
BEC = 5.842

Weight: <None>
Min Conc: <None>

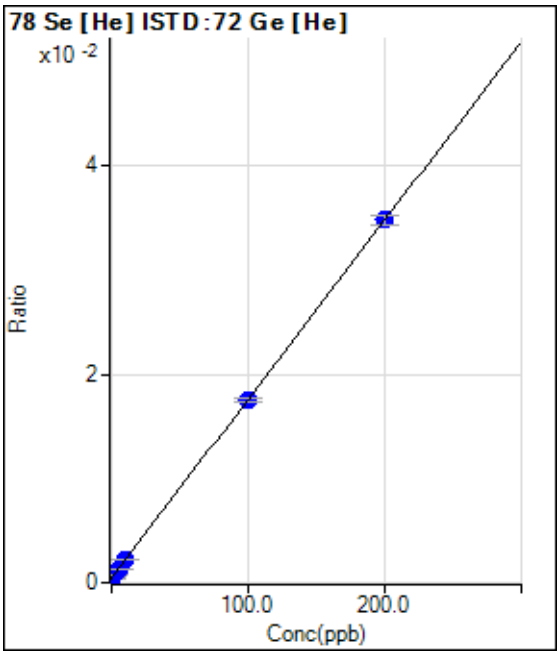
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 15672.60 | 0.0102 | P | 4.8 |
| 2 | ☐ | 2.000 | 0.412 | 16166.63 | 0.0103 | P | 1.2 |
| 3 | ☐ | 5.000 | 2.226 | 16897.45 | 0.0108 | P | 1.7 |
| 4 | ☐ | 10.000 | 8.313 | 19107.18 | 0.0123 | P | 2.4 |
| 5 | ☐ | 100.000 | 97.440 | 51337.82 | 0.0339 | P | 3.4 |
| 6 | ☐ | 200.000 | 201.450 | 86103.93 | 0.0591 | P | 3.5 |

y = 2.4265E-004 * x + 0.0102
R = 0.9999
DL = 6.051
BEC = 42.19

Weight: <None>
Min Conc: <None>

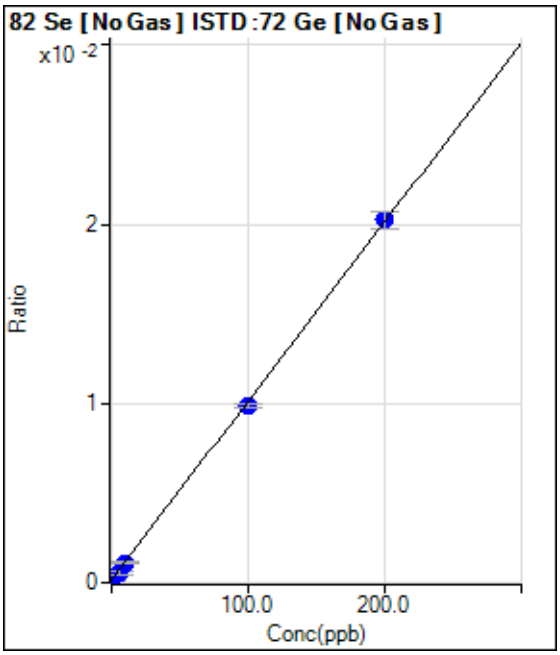



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 216.67 | 0.0005 | P | 16.8 |
| 2 | ☐ | 2.000 | 2.102 | 384.68 | 0.0008 | P | 7.1 |
| 3 | ☐ | 5.000 | 4.747 | 602.02 | 0.0013 | P | 3.4 |
| 4 | ☐ | 10.000 | 10.316 | 1042.71 | 0.0022 | P | 1.1 |
| 5 | ☐ | 100.000 | 99.498 | 8031.07 | 0.0175 | P | 1.8 |
| 6 | ☐ | 200.000 | 200.240 | 15362.75 | 0.0348 | P | 2.3 |

y = 1.7172E-004 * x + 4.5875E-004
R = 1.0000
DL = 1.344
BEC = 2.671

Weight: <None>
Min Conc: <None>

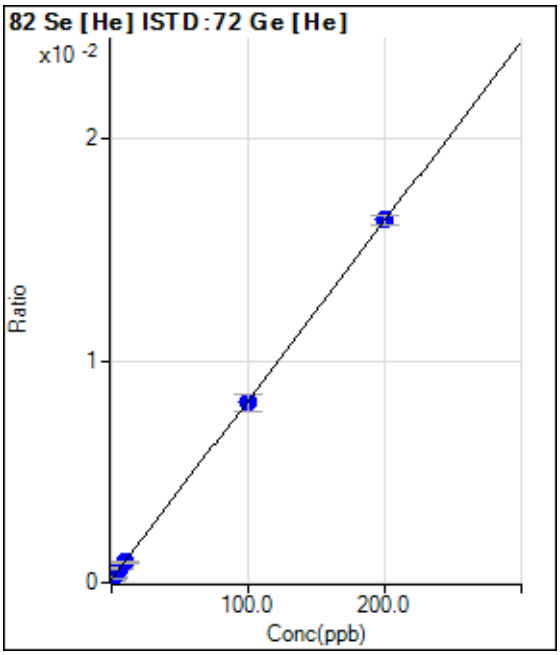
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 248.57 | 0.0002 | P | 47.1 |
| 2 | ☐ | 2.000 | 1.674 | 511.89 | 0.0003 | P | 12.4 |
| 3 | ☐ | 5.000 | 3.783 | 842.13 | 0.0005 | P | 24.1 |
| 4 | ☐ | 10.000 | 9.547 | 1735.51 | 0.0011 | P | 5.8 |
| 5 | ☐ | 100.000 | 97.616 | 15000.94 | 0.0099 | P | 2.3 |
| 6 | ☐ | 200.000 | 201.248 | 29465.03 | 0.0202 | P | 4.5 |

y = 9.9749E-005 * x + 1.6075E-004
R = 0.9999
DL = 2.277
BEC = 1.612

Weight: <None>
Min Conc: <None>

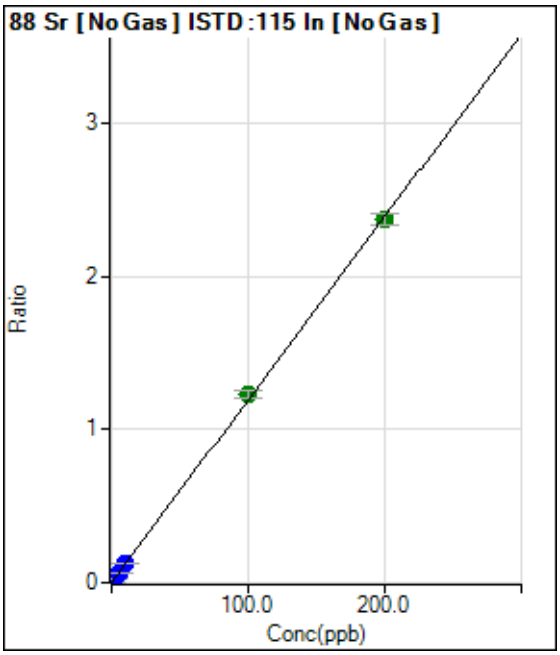



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 66.67 | 0.0001 | P | 57.5 |
| 2 | ☐ | 2.000 | 1.156 | 110.00 | 0.0002 | P | 33.2 |
| 3 | ☐ | 5.000 | 6.113 | 300.01 | 0.0006 | P | 9.5 |
| 4 | ☐ | 10.000 | 9.728 | 433.35 | 0.0009 | P | 9.9 |
| 5 | ☐ | 100.000 | 98.899 | 3720.60 | 0.0081 | P | 9.6 |
| 6 | ☐ | 200.000 | 200.545 | 7205.39 | 0.0163 | P | 2.4 |

y = 8.0778E-005 * x + 1.4129E-004
R = 0.9999
DL = 3.017
BEC = 1.749

Weight: <None>
Min Conc: <None>

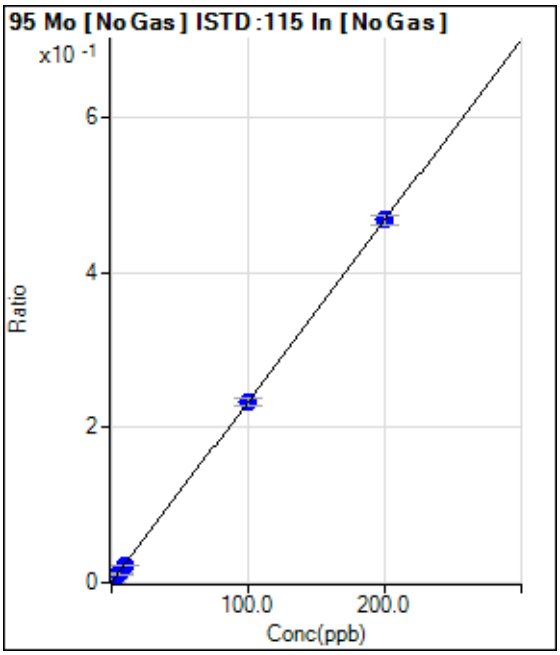
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1356.77 | 0.0008 | P | 4.8 |
| 2 | ☐ | 2.000 | 2.042 | 45407.49 | 0.0251 | P | 0.1 |
| 3 | ☐ | 5.000 | 5.040 | 110838.78 | 0.0609 | P | 1.7 |
| 4 | ☐ | 10.000 | 10.211 | 221099.67 | 0.1227 | P | 1.7 |
| 5 | ☐ | 100.000 | 103.108 | 2112392.52 | 1.2316 | A | 3.8 |
| 6 | ☐ | 200.000 | 198.434 | 3980452.65 | 2.3695 | A | 3.3 |

y = 0.0119 * x + 7.6139E-004
R = 0.9998
DL = 0.009213
BEC = 0.06378

Weight: <None>
Min Conc: <None>

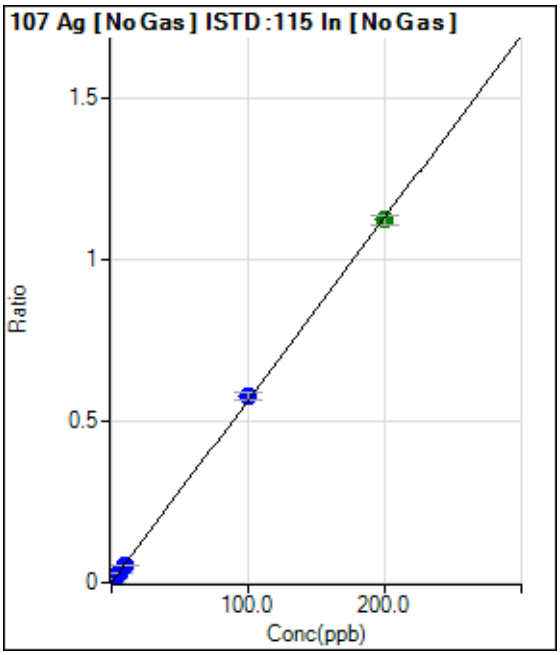



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 680.03 | 0.0004 | P | 1.5 |
| 2 | ☐ | 2.000 | 1.909 | 8723.05 | 0.0048 | P | 2.0 |
| 3 | ☐ | 5.000 | 4.643 | 20379.18 | 0.0112 | P | 4.4 |
| 4 | ☐ | 10.000 | 9.259 | 39595.88 | 0.0220 | P | 1.8 |
| 5 | ☐ | 100.000 | 99.483 | 398413.28 | 0.2323 | P | 3.9 |
| 6 | ☐ | 200.000 | 200.305 | 785065.07 | 0.4673 | P | 2.9 |

y = 0.0023 * x + 3.8160E-004
R = 1.0000
DL = 0.00716
BEC = 0.1637

Weight: <None>
Min Conc: <None>

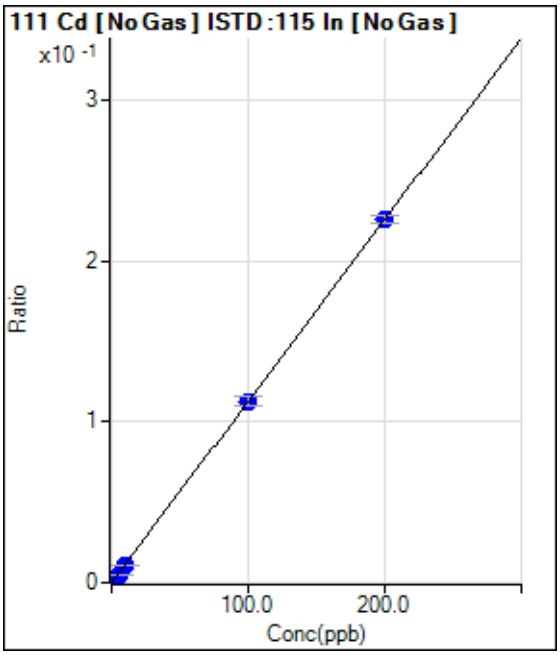
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 823.37 | 0.0005 | P | 4.7 |
| 2 | ☐ | 2.000 | 1.927 | 20456.10 | 0.0113 | P | 2.2 |
| 3 | ☐ | 5.000 | 4.929 | 51393.40 | 0.0283 | P | 1.9 |
| 4 | ☐ | 10.000 | 9.808 | 100522.78 | 0.0558 | P | 1.6 |
| 5 | ☐ | 100.000 | 102.134 | 988445.97 | 0.5763 | P | 3.8 |
| 6 | ☐ | 200.000 | 198.945 | 1885121.79 | 1.1222 | A | 2.8 |

y = 0.0056 * x + 4.6168E-004
R = 0.9999
DL = 0.01151
BEC = 0.08188

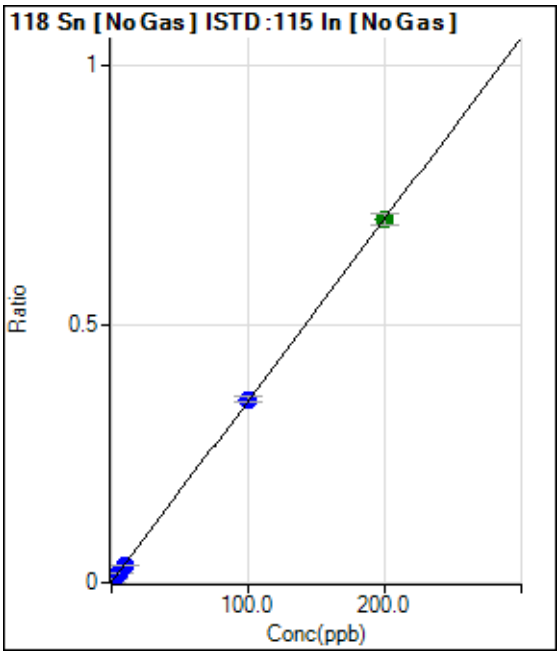
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | -10.97 | 0.0000 | P | -98.1 |
| 2 | ☐ | 2.000 | 1.842 | 3744.26 | 0.0021 | P | 6.2 |
| 3 | ☐ | 5.000 | 4.681 | 9604.39 | 0.0053 | P | 0.6 |
| 4 | ☐ | 10.000 | 9.663 | 19658.51 | 0.0109 | P | 1.4 |
| 5 | ☐ | 100.000 | 100.001 | 193582.26 | 0.1129 | P | 4.7 |
| 6 | ☐ | 200.000 | 200.026 | 379397.70 | 0.2258 | P | 2.2 |

y = 0.0011 * x - 6.0890E-006
R = 1.0000
DL = 0.01588
BEC = -0.005393

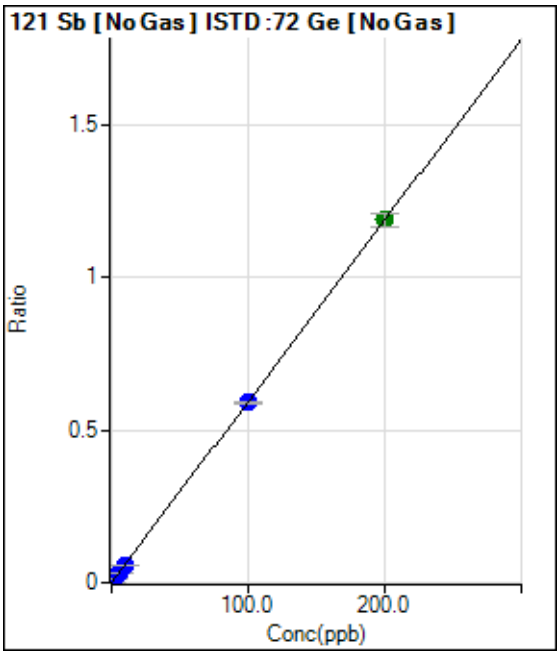
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1183.41 | 0.0007 | P | 6.7 |
| 2 | ☐ | 2.000 | 1.930 | 13443.73 | 0.0074 | P | 1.5 |
| 3 | ☐ | 5.000 | 4.771 | 31695.20 | 0.0174 | P | 1.3 |
| 4 | ☐ | 10.000 | 9.590 | 61909.02 | 0.0343 | P | 3.2 |
| 5 | ☐ | 100.000 | 100.870 | 608862.61 | 0.3549 | P | 3.4 |
| 6 | ☐ | 200.000 | 199.592 | 1178736.42 | 0.7017 | A | 3.1 |

y = 0.0035 * x + 6.6375E-004
R = 1.0000
DL = 0.03823
BEC = 0.189

Weight: <None>
Min Conc: <None>

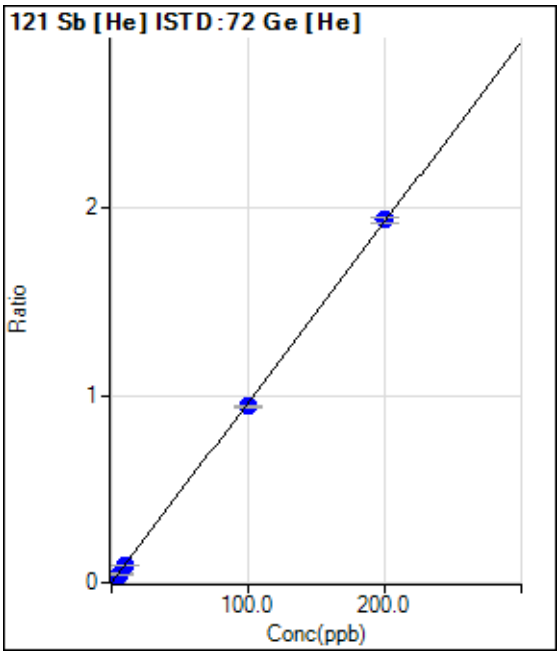



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 743.36 | 0.0005 | P | 12.2 |
| 2 | ☐ | 2.000 | 1.817 | 17595.38 | 0.0113 | P | 3.8 |
| 3 | ☐ | 5.000 | 4.764 | 45034.11 | 0.0287 | P | 2.7 |
| 4 | ☐ | 10.000 | 9.704 | 90470.76 | 0.0580 | P | 1.4 |
| 5 | ☐ | 100.000 | 99.399 | 893963.53 | 0.5898 | P | 1.7 |
| 6 | ☐ | 200.000 | 200.323 | 1730428.62 | 1.1882 | A | 3.9 |

y = 0.0059 * x + 4.8482E-004
R = 1.0000
DL = 0.02991
BEC = 0.08177

Weight: <None>
Min Conc: <None>

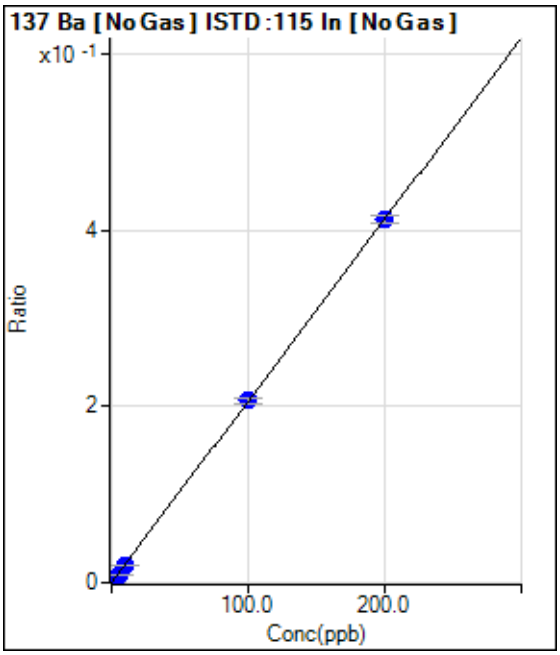
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 356.68 | 0.0008 | P | 5.8 |
| 2 | ☐ | 2.000 | 1.830 | 8612.96 | 0.0184 | P | 4.1 |
| 3 | ☐ | 5.000 | 4.712 | 21774.93 | 0.0461 | P | 0.5 |
| 4 | ☐ | 10.000 | 9.565 | 43368.58 | 0.0928 | P | 1.2 |
| 5 | ☐ | 100.000 | 97.847 | 431110.43 | 0.9419 | P | 0.8 |
| 6 | ☐ | 200.000 | 201.107 | 853258.79 | 1.9352 | P | 1.8 |

y = 0.0096 * x + 7.5413E-004
R = 0.9999
DL = 0.01354
BEC = 0.0784

Weight: <None>
Min Conc: <None>

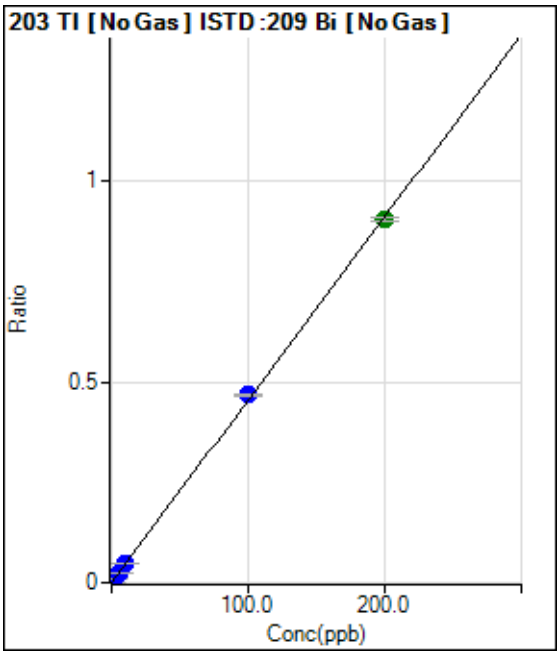



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 203.34 | 0.0001 | P | 24.1 |
| 2 | ☐ | 2.000 | 1.933 | 7398.89 | 0.0041 | P | 6.8 |
| 3 | ☐ | 5.000 | 4.646 | 17632.23 | 0.0097 | P | 1.2 |
| 4 | ☐ | 10.000 | 9.496 | 35488.85 | 0.0197 | P | 1.5 |
| 5 | ☐ | 100.000 | 100.408 | 355213.33 | 0.2071 | P | 2.9 |
| 6 | ☐ | 200.000 | 199.831 | 692185.25 | 0.4120 | P | 2.0 |

y = 0.0021 * x + 1.1432E-004
R = 1.0000
DL = 0.04008
BEC = 0.05546

Weight: <None>
Min Conc: <None>

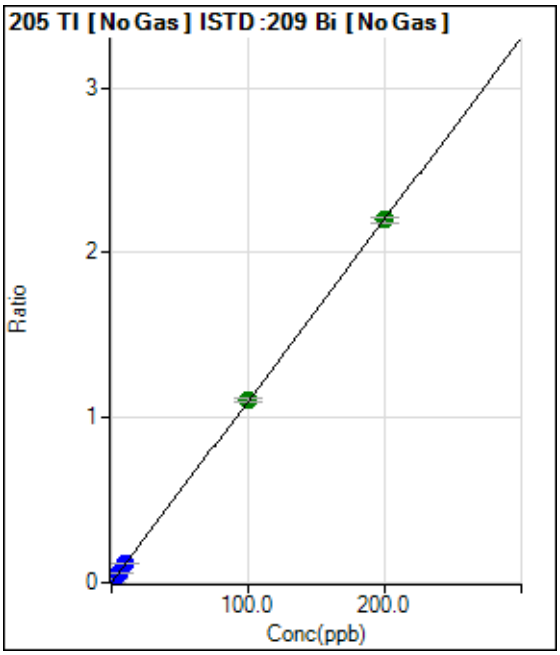
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 206.67 | 0.0002 | P | 35.1 |
| 2 | ☐ | 2.000 | 2.066 | 12049.41 | 0.0096 | P | 1.4 |
| 3 | ☐ | 5.000 | 5.263 | 30130.15 | 0.0241 | P | 0.7 |
| 4 | ☐ | 10.000 | 10.244 | 57616.29 | 0.0468 | P | 1.8 |
| 5 | ☐ | 100.000 | 102.862 | 570288.56 | 0.4688 | P | 0.6 |
| 6 | ☐ | 200.000 | 198.550 | 1069017.75 | 0.9047 | A | 0.9 |

y = 0.0046 * x + 1.7221E-004
R = 0.9999
DL = 0.03979
BEC = 0.0378

Weight: <None>
Min Conc: <None>

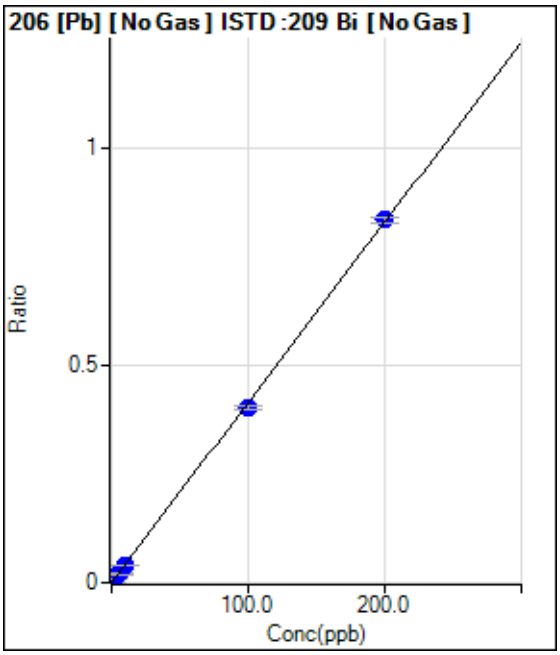



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 556.69 | 0.0005 | P | 13.8 |
| 2 | ☐ | 2.000 | 2.045 | 28873.75 | 0.0230 | P | 1.5 |
| 3 | ☐ | 5.000 | 5.185 | 71813.04 | 0.0576 | P | 0.3 |
| 4 | ☐ | 10.000 | 10.157 | 138129.08 | 0.1123 | P | 1.2 |
| 5 | ☐ | 100.000 | 100.435 | 1345678.31 | 1.1063 | A | 1.5 |
| 6 | ☐ | 200.000 | 199.770 | 2599720.95 | 2.2000 | A | 1.6 |

y = 0.0110 * x + 4.6392E-004
R = 1.0000
DL = 0.01744
BEC = 0.04214

Weight: <None>
Min Conc: <None>

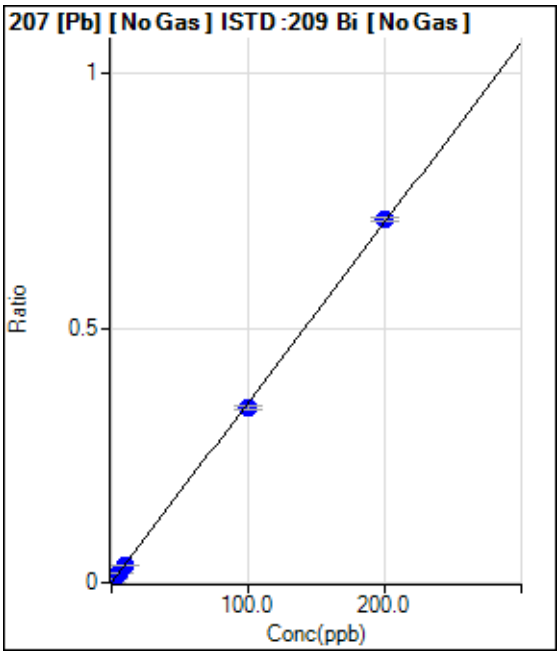
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 156.67 | 0.0001 | P | 31.3 |
| 2 | ☐ | 2.000 | 1.940 | 10267.79 | 0.0082 | P | 2.7 |
| 3 | ☐ | 5.000 | 4.789 | 24928.58 | 0.0200 | P | 2.9 |
| 4 | ☐ | 10.000 | 9.652 | 49381.62 | 0.0401 | P | 2.3 |
| 5 | ☐ | 100.000 | 97.288 | 490732.82 | 0.4034 | P | 1.6 |
| 6 | ☐ | 200.000 | 201.379 | 986485.45 | 0.8349 | P | 1.7 |

y = 0.0041 * x + 1.3084E-004
R = 0.9999
DL = 0.02962
BEC = 0.03156

Weight: <None>
Min Conc: <None>

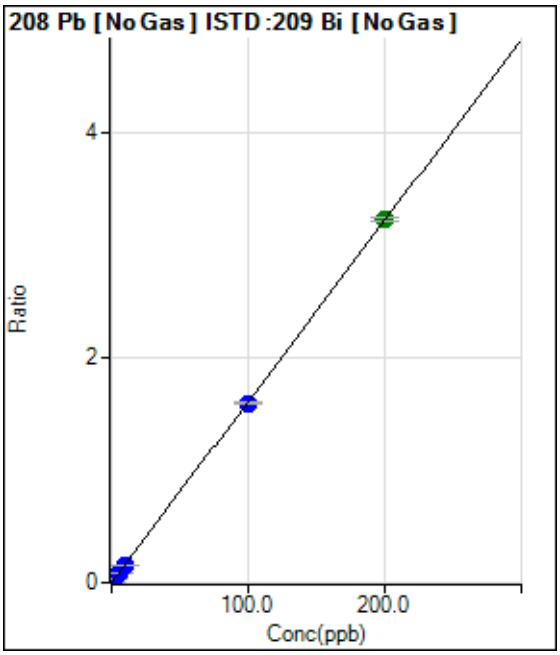



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 173.34 | 0.0001 | P | 19.6 |
| 2 | ☐ | 2.000 | 1.885 | 8569.77 | 0.0068 | P | 0.8 |
| 3 | ☐ | 5.000 | 4.945 | 22023.15 | 0.0177 | P | 0.8 |
| 4 | ☐ | 10.000 | 9.637 | 42134.90 | 0.0343 | P | 1.1 |
| 5 | ☐ | 100.000 | 97.150 | 418497.01 | 0.3441 | P | 1.8 |
| 6 | ☐ | 200.000 | 201.445 | 842746.39 | 0.7133 | P | 1.2 |

y = 0.0035 * x + 1.4466E-004
R = 0.9999
DL = 0.02397
BEC = 0.04087

Weight: <None>
Min Conc: <None>

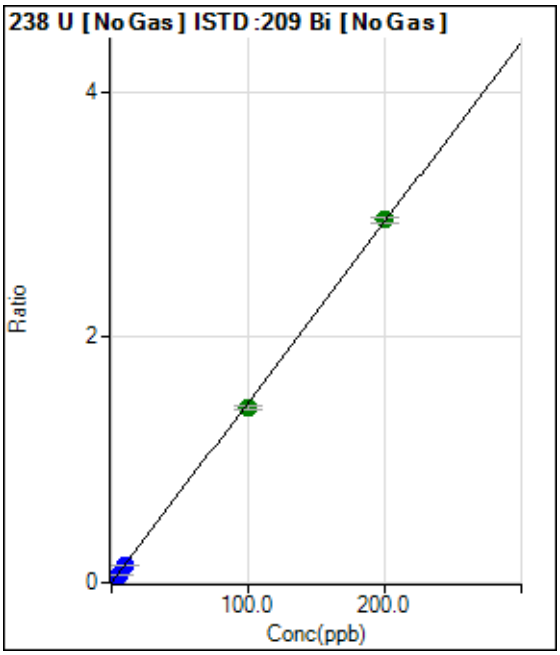
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 726.69 | 0.0006 | P | 11.3 |
| 2 | ☐ | 2.000 | 1.933 | 39828.91 | 0.0317 | P | 1.0 |
| 3 | ☐ | 5.000 | 4.906 | 99225.16 | 0.0795 | P | 1.7 |
| 4 | ☐ | 10.000 | 9.836 | 195347.23 | 0.1588 | P | 0.7 |
| 5 | ☐ | 100.000 | 99.094 | 1939668.72 | 1.5946 | P | 1.5 |
| 6 | ☐ | 200.000 | 200.464 | 3810794.47 | 3.2252 | A | 1.0 |

y = 0.0161 * x + 6.0561E-004
R = 1.0000
DL = 0.01276
BEC = 0.03765

Weight: <None>
Min Conc: <None>

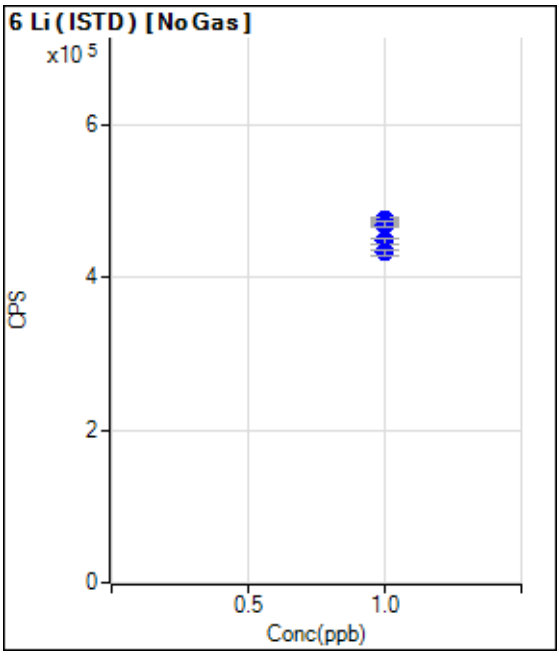



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 376.68 | 0.0003 | P | 4.9 |
| 2 | ☐ | 2.000 | 1.817 | 33944.13 | 0.0270 | P | 4.2 |
| 3 | ☐ | 5.000 | 4.599 | 84698.25 | 0.0679 | P | 1.8 |
| 4 | ☐ | 10.000 | 9.444 | 171045.92 | 0.1391 | P | 0.2 |
| 5 | ☐ | 100.000 | 97.462 | 1742028.67 | 1.4322 | A | 2.3 |
| 6 | ☐ | 200.000 | 201.309 | 3494942.97 | 2.9579 | A | 1.4 |

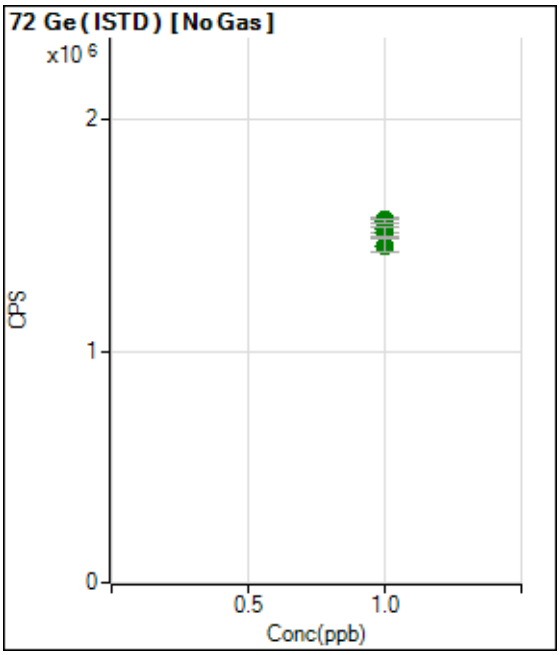
y = 0.0147 * x + 3.1362E-004
R = 0.9999
DL = 0.003133
BEC = 0.02135

Weight: <None>
Min Conc: <None>

Calibration for 092_ICV.d

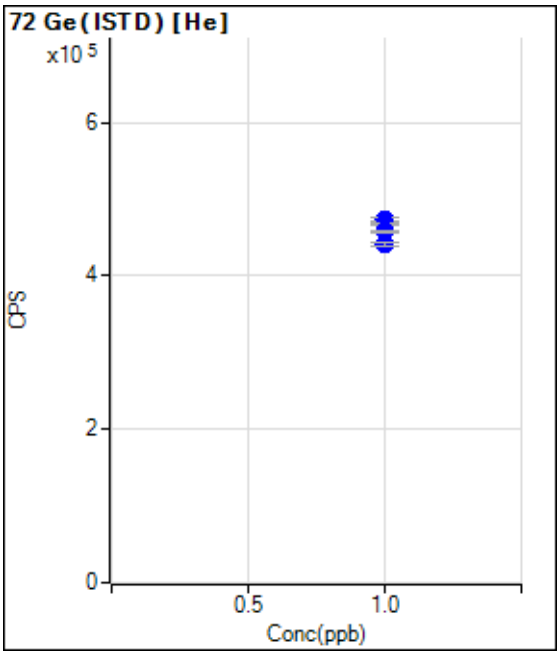



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 471022.82 | | P | 1.3 |
| 2 | ☐ | 1.000 | | 475143.20 | | P | 0.2 |
| 3 | ☐ | 1.000 | | 474252.25 | | P | 1.5 |
| 4 | ☐ | 1.000 | | 469599.92 | | P | 1.3 |
| 5 | ☐ | 1.000 | | 447478.48 | | P | 1.6 |
| 6 | ☐ | 1.000 | | 431923.38 | | P | 1.6 |

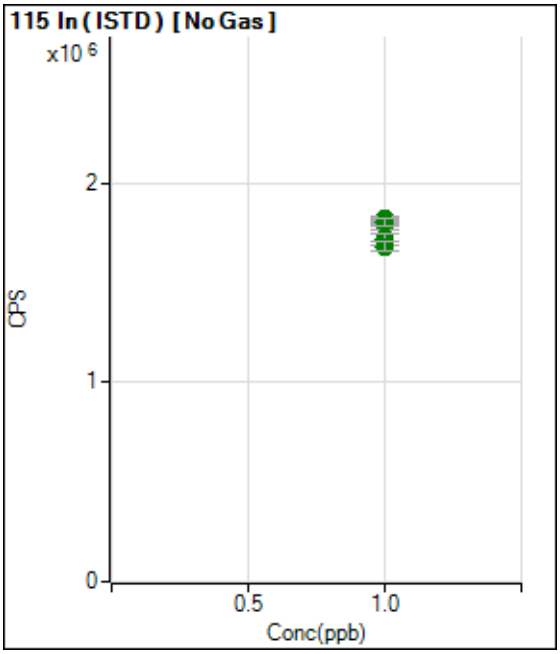



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1532242.69 | | A | 3.0 |
| 2 | ☐ | 1.000 | | 1563880.29 | | A | 1.7 |
| 3 | ☐ | 1.000 | | 1568017.63 | | A | 1.7 |
| 4 | ☐ | 1.000 | | 1559453.26 | | A | 1.0 |
| 5 | ☐ | 1.000 | | 1516058.05 | | A | 2.4 |
| 6 | ☐ | 1.000 | | 1457866.59 | | A | 4.0 |

Calibration for 092_ICV.d

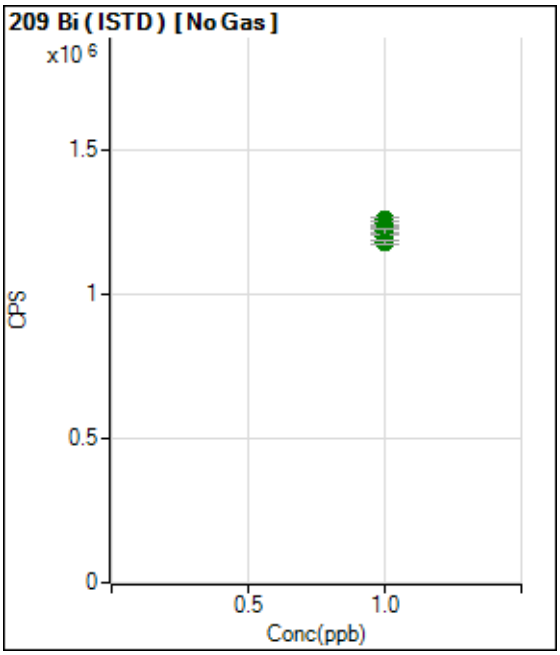



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 472742.67 | | P | 1.6 |
| 2 | ☐ | 1.000 | | 469145.56 | | P | 0.8 |
| 3 | ☐ | 1.000 | | 472591.38 | | P | 1.0 |
| 4 | ☐ | 1.000 | | 467522.72 | | P | 0.3 |
| 5 | ☐ | 1.000 | | 457698.98 | | P | 0.8 |
| 6 | ☐ | 1.000 | | 440981.23 | | P | 1.4 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1782326.38 | | A | 2.2 |
| 2 | ☐ | 1.000 | | 1805997.18 | | A | 1.2 |
| 3 | ☐ | 1.000 | | 1819392.60 | | A | 1.0 |
| 4 | ☐ | 1.000 | | 1803041.79 | | A | 2.0 |
| 5 | ☐ | 1.000 | | 1716691.83 | | A | 3.7 |
| 6 | ☐ | 1.000 | | 1680845.94 | | A | 3.0 |

Calibration for 092_ICV.d



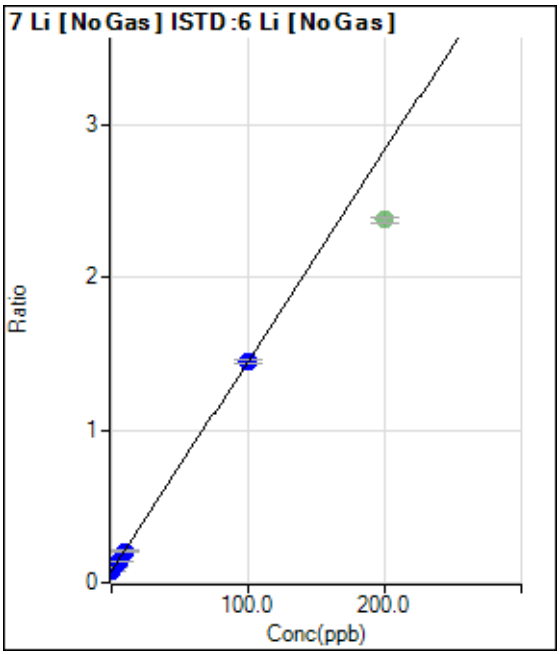

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1201519.72 | | A | 2.1 |
| 2 | ☐ | 1.000 | | 1256841.10 | | A | 1.2 |
| 3 | ☐ | 1.000 | | 1247792.64 | | A | 1.1 |
| 4 | ☐ | 1.000 | | 1229973.99 | | A | 0.8 |
| 5 | ☐ | 1.000 | | 1216568.11 | | A | 1.4 |
| 6 | ☐ | 1.000 | | 1181656.49 | | A | 1.1 |

Calibration for 020_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062823A.b\
Analysis File: 062823A.batch.bin
DA Date-Time: 6/28/2023 1:33:06 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 013CALB.d | CAL BLK | 6/28/2023 10:39:38 AM |
| 2 | 014CALS.d | 2/10/200 | 6/28/2023 10:41:30 AM |
| 3 | 015CALS.d | 5/25/500 | 6/28/2023 10:43:22 AM |
| 4 | 016CALS.d | 10/50/100 | 6/28/2023 10:45:14 AM |
| 5 | 017CALS.d | 100/500/10K | 6/28/2023 10:47:06 AM |
| 6 | 018CALS.d | 200/1000/20K | 6/28/2023 10:48:54 AM |

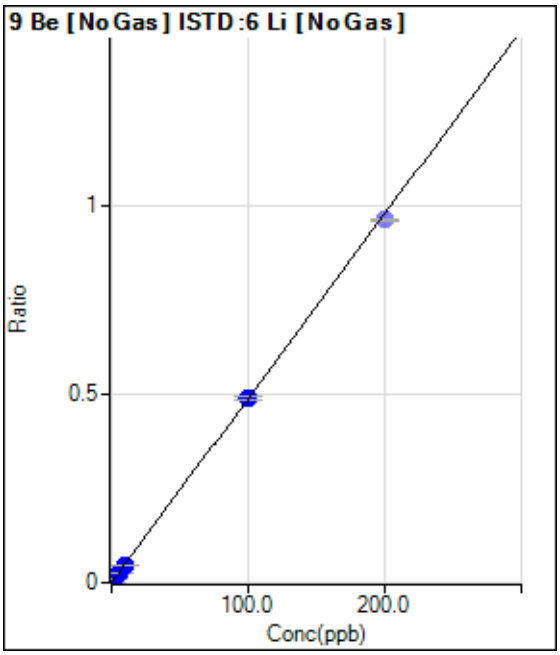
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 27566.99 | 0.0721 | P | 0.9 |
| 2 | ☐ | 2.000 | 2.118 | 38378.78 | 0.1013 | P | 1.1 |
| 3 | ☐ | 5.000 | 4.970 | 53148.28 | 0.1406 | P | 1.2 |
| 4 | ☐ | 10.000 | 9.759 | 78827.59 | 0.2065 | P | 1.4 |
| 5 | ☐ | 100.000 | 100.023 | 522975.20 | 1.4493 | P | 1.2 |
| 6 | ☑ | 200.000 | | 842176.91 | 2.3743 | A | 1.7 |

y = 0.0138 * x + 0.0721
R = 1.0000
DL = 0.1439
BEC = 5.24

Weight: <None>
Min Conc: <None>

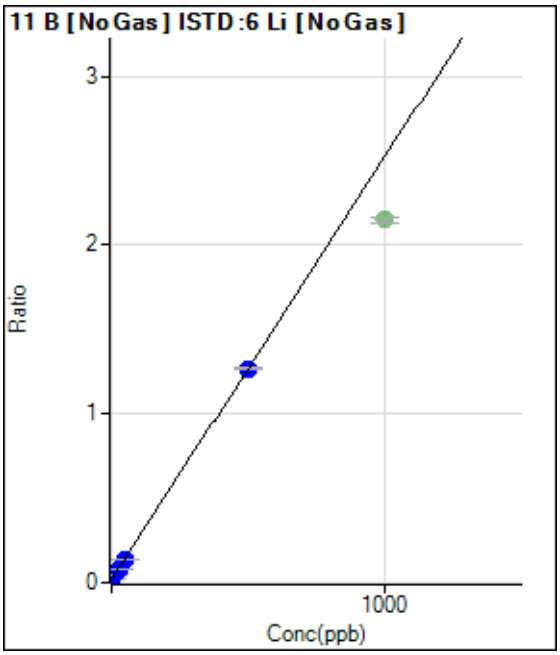



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 91.67 | 0.0002 | P | 10.7 |
| 2 | ☐ | 2.000 | 1.874 | 3563.81 | 0.0094 | P | 2.5 |
| 3 | ☐ | 5.000 | 4.814 | 8992.92 | 0.0238 | P | 1.3 |
| 4 | ☐ | 10.000 | 9.451 | 17739.63 | 0.0465 | P | 1.0 |
| 5 | ☐ | 100.000 | 100.067 | 176686.94 | 0.4897 | P | 1.9 |
| 6 | ☑ | 200.000 | | 341772.42 | 0.9635 | P | 0.6 |

y = 0.0049 * x + 2.3978E-004
R = 1.0000
DL = 0.01579
BEC = 0.04902

Weight: <None>
Min Conc: <None>

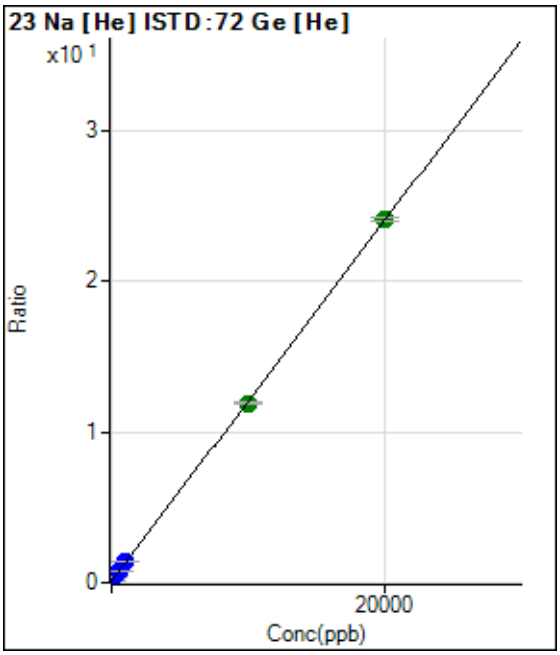
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6668.31 | 0.0174 | P | 3.4 |
| 2 | ☐ | 10.000 | 9.816 | 15914.08 | 0.0420 | P | 3.0 |
| 3 | ☐ | 25.000 | 24.645 | 29911.83 | 0.0791 | P | 0.5 |
| 4 | ☐ | 50.000 | 47.297 | 51823.53 | 0.1358 | P | 3.1 |
| 5 | ☐ | 500.000 | 500.292 | 457991.21 | 1.2692 | P | 0.6 |
| 6 | ☑ | 1000.000 | | 762386.24 | 2.1491 | A | 1.7 |

y = 0.0025 * x + 0.0174
R = 1.0000
DL = 0.7212
BEC = 6.974

Weight: <None>
Min Conc: <None>

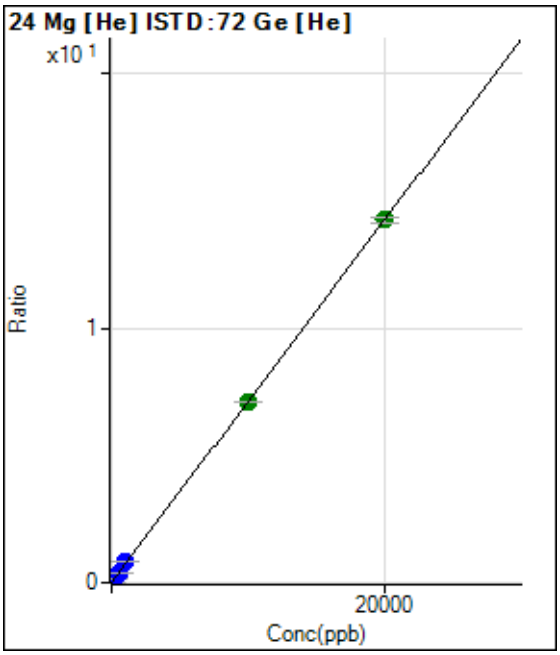



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 46591.26 | 0.1073 | P | 2.1 |
| 2 | ☐ | 200.000 | 220.066 | 161623.86 | 0.3702 | P | 1.4 |
| 3 | ☐ | 500.000 | 545.332 | 330572.32 | 0.7588 | P | 1.1 |
| 4 | ☐ | 1000.000 | 1082.094 | 609062.32 | 1.4001 | P | 0.9 |
| 5 | ☐ | 10000.000 | 9888.177 | 5144773.25 | 11.9213 | A | 0.9 |
| 6 | ☐ | 20000.000 | 20050.473 | 10129626.72 | 24.0629 | A | 1.0 |

y = 0.0012 * x + 0.1073
R = 1.0000
DL = 5.682
BEC = 89.79

Weight: <None>
Min Conc: <None>

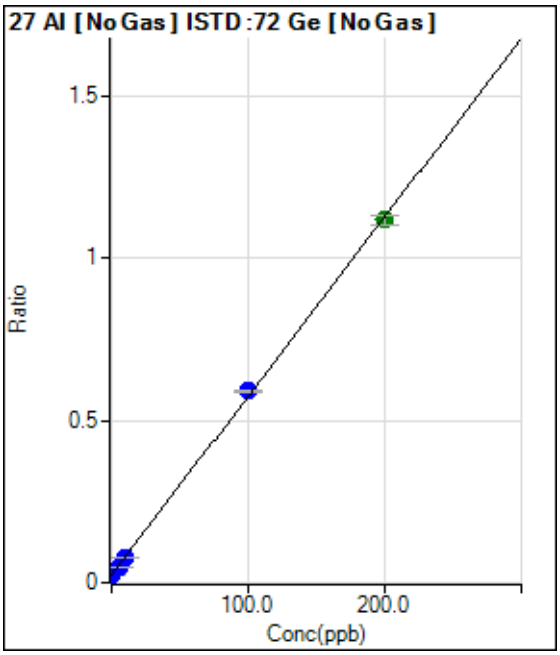
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 4220.72 | 0.0097 | P | 4.6 |
| 2 | ☐ | 200.000 | 225.584 | 74350.85 | 0.1703 | P | 0.8 |
| 3 | ☐ | 500.000 | 561.445 | 178350.08 | 0.4094 | P | 0.6 |
| 4 | ☐ | 1000.000 | 1122.476 | 351812.23 | 0.8087 | P | 0.6 |
| 5 | ☐ | 10000.000 | 9960.283 | 3063973.81 | 7.0998 | A | 0.8 |
| 6 | ☐ | 20000.000 | 20011.943 | 6000709.49 | 14.2550 | A | 1.5 |

y = 7.1184E-004 * x + 0.0097
R = 1.0000
DL = 1.896
BEC = 13.66

Weight: <None>
Min Conc: <None>

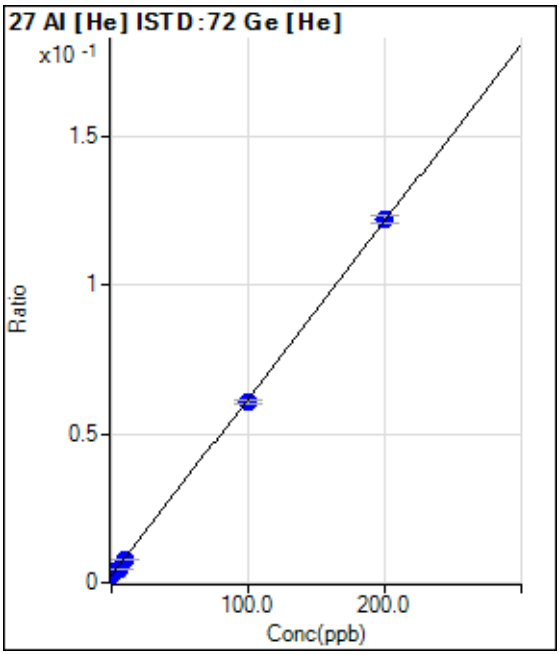



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 32611.98 | 0.0238 | P | 1.7 |
| 2 | ☐ | 2.000 | 1.766 | 46250.66 | 0.0335 | P | 3.0 |
| 3 | ☐ | 5.000 | 4.499 | 65979.65 | 0.0486 | P | 1.4 |
| 4 | ☐ | 10.000 | 9.610 | 104745.60 | 0.0767 | P | 0.7 |
| 5 | ☐ | 100.000 | 102.976 | 803151.86 | 0.5907 | P | 0.7 |
| 6 | ☐ | 200.000 | 198.546 | 1496413.10 | 1.1169 | A | 2.8 |

y = 0.0055 * x + 0.0238
R = 0.9998
DL = 0.2161
BEC = 4.328

Weight: <None>
Min Conc: <None>

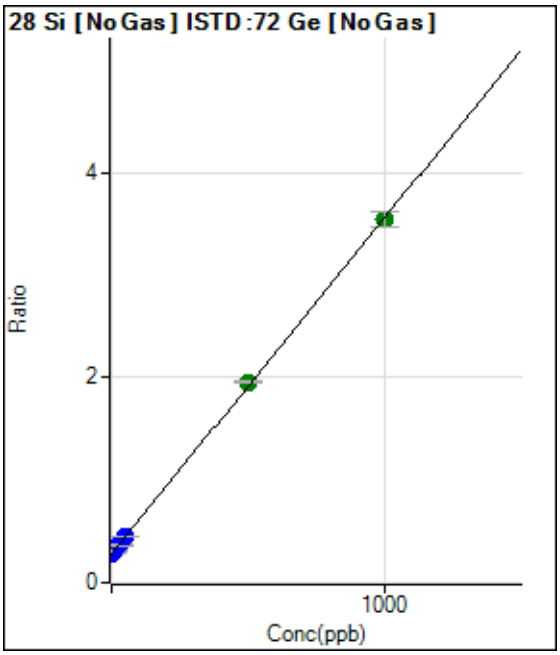
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1026.72 | 0.0024 | P | 10.1 |
| 2 | ☐ | 2.000 | 2.783 | 1756.86 | 0.0040 | P | 9.4 |
| 3 | ☐ | 5.000 | 3.802 | 2016.85 | 0.0046 | P | 3.7 |
| 4 | ☐ | 10.000 | 9.222 | 3417.16 | 0.0079 | P | 5.5 |
| 5 | ☐ | 100.000 | 98.390 | 26311.76 | 0.0610 | P | 1.9 |
| 6 | ☐ | 200.000 | 200.866 | 51355.01 | 0.1220 | P | 2.3 |

y = 5.9563E-004 * x + 0.0024
R = 0.9999
DL = 1.201
BEC = 3.971

Weight: <None>
Min Conc: <None>

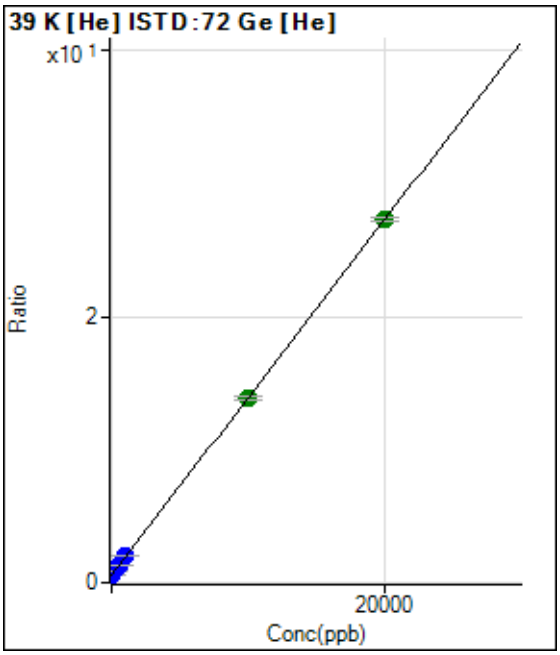



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 383503.15 | 0.2802 | P | 1.2 |
| 2 | ☐ | 10.000 | 8.377 | 424099.47 | 0.3076 | P | 2.0 |
| 3 | ☐ | 25.000 | 26.919 | 500219.34 | 0.3684 | P | 1.9 |
| 4 | ☐ | 50.000 | 52.444 | 617166.20 | 0.4521 | P | 2.1 |
| 5 | ☐ | 500.000 | 511.317 | 2660161.00 | 1.9566 | A | 0.9 |
| 6 | ☐ | 1000.000 | 994.188 | 4741350.03 | 3.5398 | A | 4.2 |

y = 0.0033 * x + 0.2802
R = 0.9999
DL = 2.974
BEC = 85.45

Weight: <None>
Min Conc: <None>

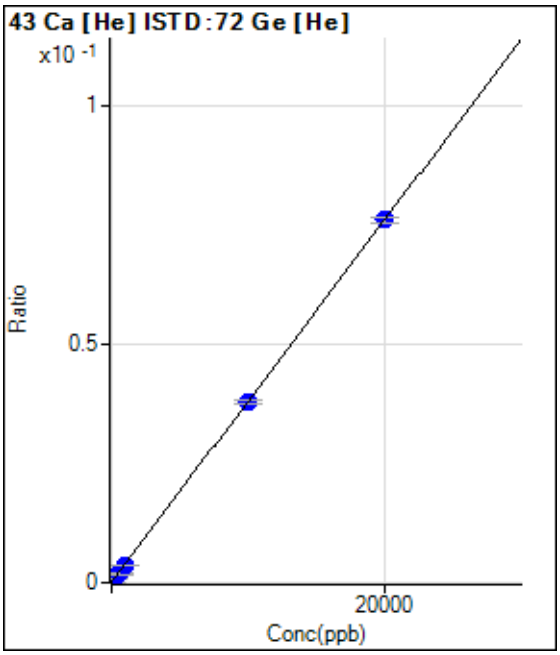
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 243635.66 | 0.5609 | P | 0.7 |
| 2 | ☐ | 200.000 | 211.110 | 367961.74 | 0.8429 | P | 1.8 |
| 3 | ☐ | 500.000 | 531.175 | 553333.72 | 1.2703 | P | 1.5 |
| 4 | ☐ | 1000.000 | 1062.978 | 861502.07 | 1.9805 | P | 0.9 |
| 5 | ☐ | 10000.000 | 10001.164 | 6006354.28 | 13.9170 | A | 2.3 |
| 6 | ☐ | 20000.000 | 19995.379 | 11477449.41 | 27.2637 | A | 1.1 |

y = 0.0013 * x + 0.5609
R = 1.0000
DL = 9.044
BEC = 420

Weight: <None>
Min Conc: <None>

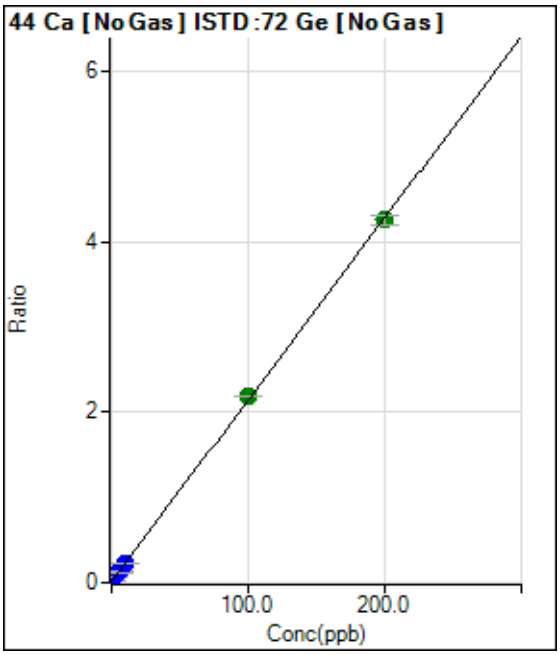



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 50.00 | 0.0001 | P | 1.0 |
| 2 | ☐ | 200.000 | 176.625 | 343.35 | 0.0008 | P | 17.8 |
| 3 | ☐ | 500.000 | 468.424 | 826.71 | 0.0019 | P | 9.3 |
| 4 | ☐ | 1000.000 | 925.294 | 1580.12 | 0.0036 | P | 3.4 |
| 5 | ☐ | 10000.000 | 9989.334 | 16436.71 | 0.0381 | P | 2.1 |
| 6 | ☐ | 20000.000 | 20010.091 | 32067.68 | 0.0762 | P | 1.4 |

y = 3.8013E-006 * x + 1.1512E-004
R = 1.0000
DL = 0.9308
BEC = 30.28

Weight: <None>
Min Conc: <None>

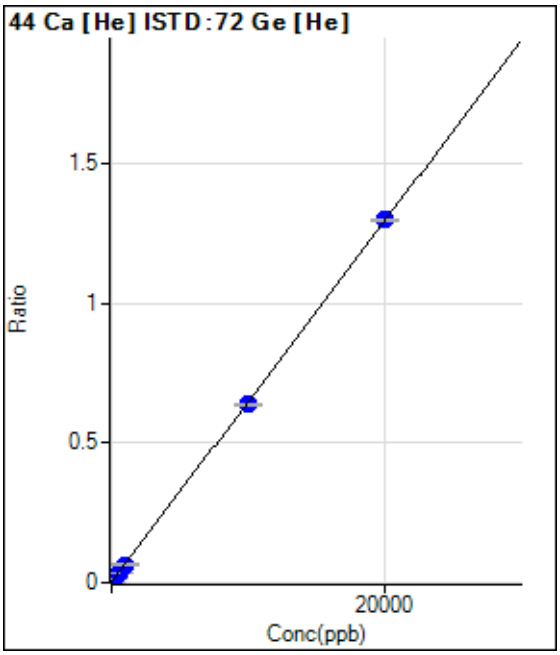
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 17454.58 | 0.0128 | P | 2.4 |
| 2 | ☐ | 2.000 | 2.131 | 80118.92 | 0.0581 | P | 3.5 |
| 3 | ☐ | 5.000 | 5.271 | 169709.19 | 0.1250 | P | 2.5 |
| 4 | ☐ | 10.000 | 10.445 | 321105.05 | 0.2352 | P | 1.1 |
| 5 | ☐ | 100.000 | 101.738 | 2963485.37 | 2.1796 | A | 0.3 |
| 6 | ☐ | 200.000 | 199.101 | 5699078.87 | 4.2533 | A | 2.4 |

y = 0.0213 * x + 0.0128
R = 0.9999
DL = 0.04351
BEC = 0.5988

Weight: <None>
Min Conc: <None>

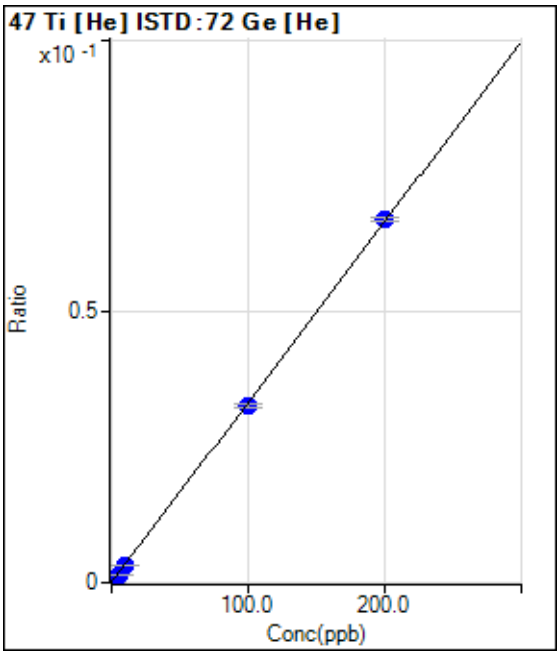



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 706.70 | 0.0016 | P | 8.9 |
| 2 | ☐ | 200.000 | 199.288 | 6331.59 | 0.0145 | P | 3.6 |
| 3 | ☐ | 500.000 | 496.838 | 14694.79 | 0.0337 | P | 3.8 |
| 4 | ☐ | 1000.000 | 978.566 | 28205.95 | 0.0649 | P | 3.2 |
| 5 | ☐ | 10000.000 | 9863.498 | 275729.40 | 0.6389 | P | 0.8 |
| 6 | ☐ | 20000.000 | 20069.409 | 546590.45 | 1.2983 | P | 0.8 |

y = 6.4611E-005 * x + 0.0016
R = 1.0000
DL = 6.722
BEC = 25.19

Weight: <None>
Min Conc: <None>

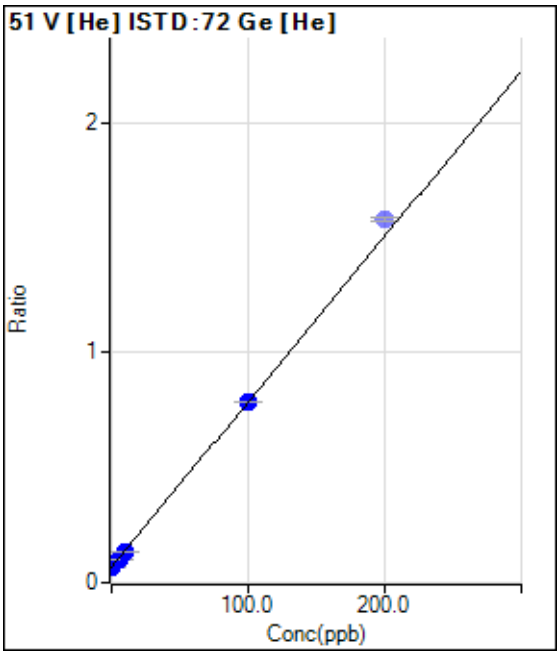
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 26.67 | 0.0001 | P | 57.0 |
| 2 | ☐ | 2.000 | 1.654 | 266.68 | 0.0006 | P | 12.3 |
| 3 | ☐ | 5.000 | 4.147 | 626.69 | 0.0014 | P | 2.8 |
| 4 | ☐ | 10.000 | 9.188 | 1353.42 | 0.0031 | P | 2.5 |
| 5 | ☐ | 100.000 | 98.002 | 14064.07 | 0.0326 | P | 2.0 |
| 6 | ☐ | 200.000 | 201.064 | 28125.78 | 0.0668 | P | 1.2 |

y = 3.3196E-004 * x + 6.1227E-005
R = 0.9999
DL = 0.3156
BEC = 0.1844

Weight: <None>
Min Conc: <None>

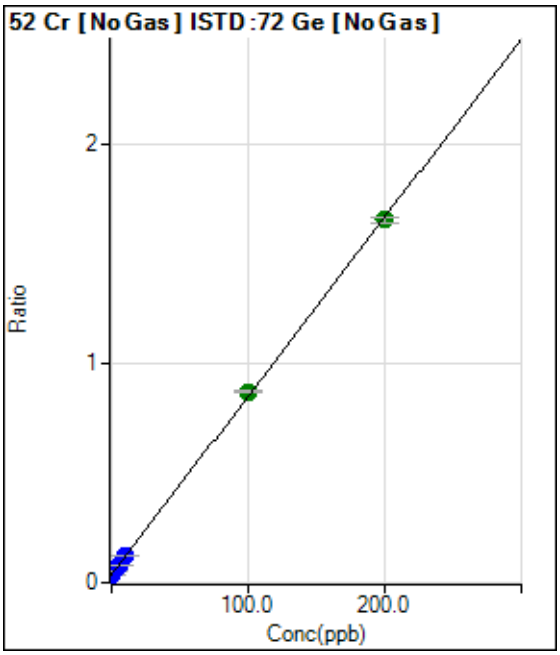



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 29625.28 | 0.0682 | P | 2.1 |
| 2 | ☐ | 2.000 | 2.138 | 36481.75 | 0.0836 | P | 0.8 |
| 3 | ☐ | 5.000 | 4.905 | 45052.64 | 0.1034 | P | 1.5 |
| 4 | ☐ | 10.000 | 9.020 | 57831.32 | 0.1329 | P | 1.3 |
| 5 | ☐ | 100.000 | 100.100 | 339463.39 | 0.7866 | P | 0.6 |
| 6 | ☑ | 200.000 | | 663371.24 | 1.5758 | P | 0.9 |

y = 0.0072 * x + 0.0682
R = 0.9999
DL = 0.6034
BEC = 9.505

Weight: <None>
Min Conc: <None>

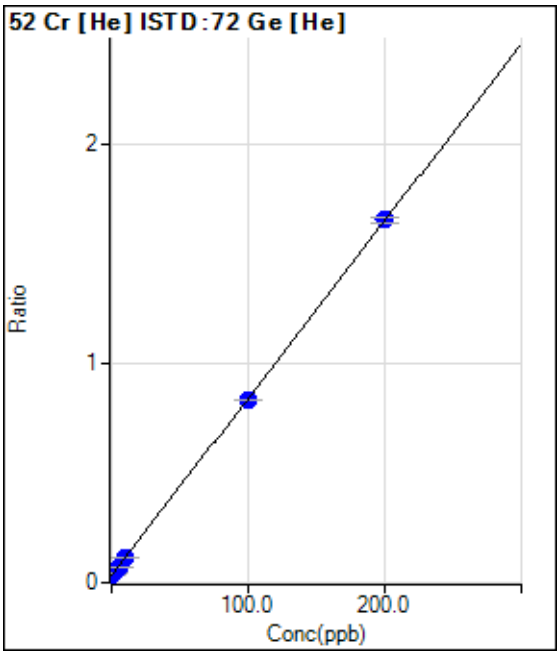
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 50677.31 | 0.0370 | P | 2.7 |
| 2 | ☐ | 2.000 | 2.095 | 74572.38 | 0.0541 | P | 1.2 |
| 3 | ☐ | 5.000 | 5.364 | 109578.38 | 0.0807 | P | 1.8 |
| 4 | ☐ | 10.000 | 10.418 | 166374.33 | 0.1219 | P | 0.8 |
| 5 | ☐ | 100.000 | 102.508 | 1185350.45 | 0.8718 | A | 0.8 |
| 6 | ☐ | 200.000 | 198.715 | 2218290.07 | 1.6553 | A | 1.8 |

y = 0.0081 * x + 0.0370
R = 0.9999
DL = 0.3639
BEC = 4.547

Weight: <None>
Min Conc: <None>

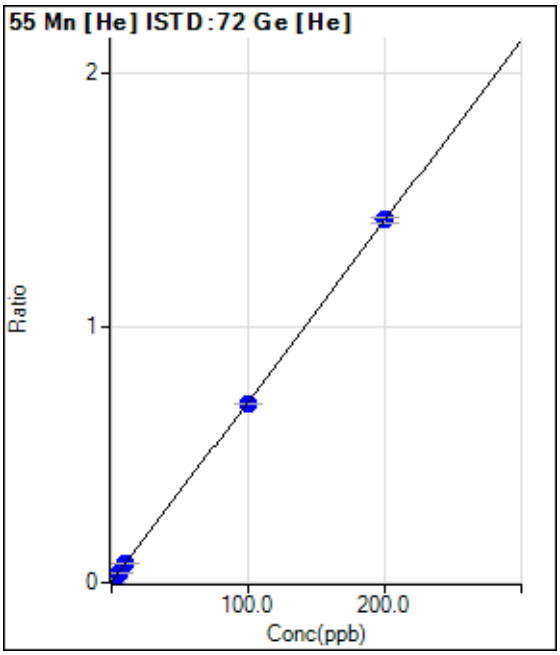



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 14417.85 | 0.0332 | P | 2.0 |
| 2 | ☐ | 2.000 | 1.712 | 20538.98 | 0.0470 | P | 2.2 |
| 3 | ☐ | 5.000 | 4.839 | 31503.34 | 0.0723 | P | 3.1 |
| 4 | ☐ | 10.000 | 9.812 | 48947.61 | 0.1126 | P | 3.7 |
| 5 | ☐ | 100.000 | 98.625 | 358532.86 | 0.8308 | P | 0.2 |
| 6 | ☐ | 200.000 | 200.704 | 697270.02 | 1.6564 | P | 1.8 |

y = 0.0081 * x + 0.0332
R = 1.0000
DL = 0.2409
BEC = 4.105

Weight: <None>
Min Conc: <None>

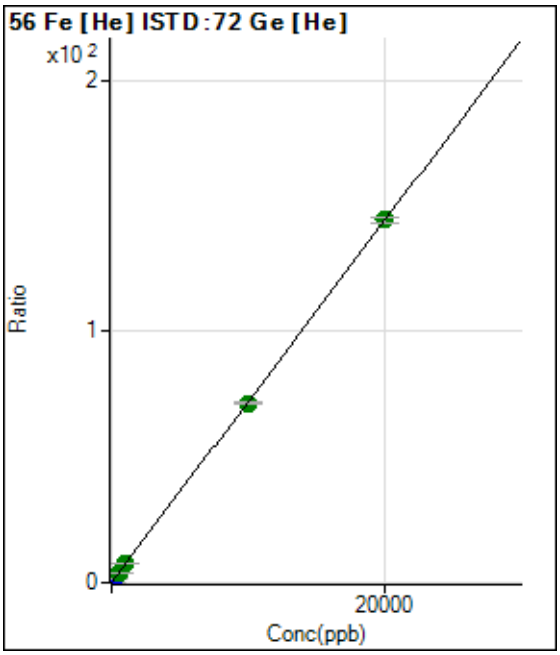
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 586.69 | 0.0013 | P | 16.8 |
| 2 | ☐ | 2.000 | 1.956 | 6638.38 | 0.0152 | P | 2.9 |
| 3 | ☐ | 5.000 | 5.023 | 16089.70 | 0.0369 | P | 0.5 |
| 4 | ☐ | 10.000 | 10.035 | 31509.85 | 0.0724 | P | 0.6 |
| 5 | ☐ | 100.000 | 98.839 | 302702.48 | 0.7015 | P | 0.6 |
| 6 | ☐ | 200.000 | 200.579 | 598668.18 | 1.4221 | P | 1.3 |

y = 0.0071 * x + 0.0013
R = 1.0000
DL = 0.09596
BEC = 0.1906

Weight: <None>
Min Conc: <None>

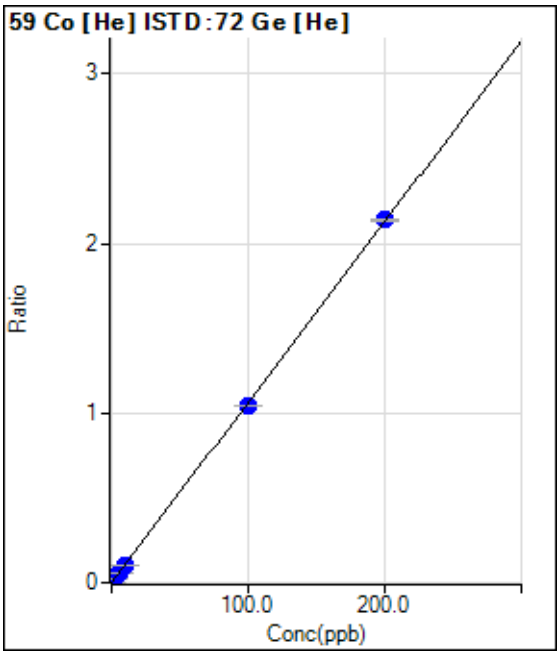



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 45984.42 | 0.1059 | P | 2.6 |
| 2 | ☐ | 200.000 | 209.354 | 704707.44 | 1.6141 | P | 0.8 |
| 3 | ☐ | 500.000 | 510.986 | 1649457.89 | 3.7871 | A | 2.4 |
| 4 | ☐ | 1000.000 | 1003.690 | 3191537.87 | 7.3366 | A | 0.6 |
| 5 | ☐ | 10000.000 | 9905.044 | 30838657.04 | 71.4634 | A | 0.7 |
| 6 | ☐ | 20000.000 | 20046.925 | 60835224.09 | 144.5272 | A | 1.9 |

y = 0.0072 * x + 0.1059
R = 1.0000
DL = 1.134
BEC = 14.7

Weight: <None>
Min Conc: <None>

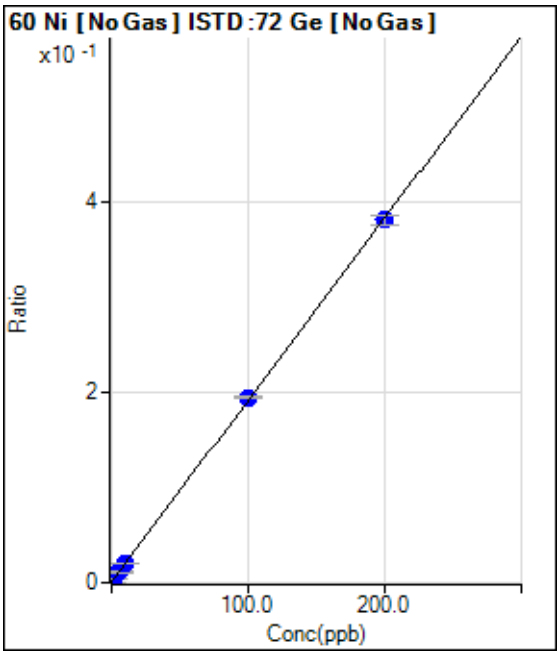
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 53.33 | 0.0001 | P | 28.8 |
| 2 | ☐ | 2.000 | 2.054 | 9596.87 | 0.0220 | P | 2.7 |
| 3 | ☐ | 5.000 | 5.069 | 23554.05 | 0.0541 | P | 3.7 |
| 4 | ☐ | 10.000 | 9.882 | 45800.60 | 0.1053 | P | 1.4 |
| 5 | ☐ | 100.000 | 97.923 | 449795.70 | 1.0423 | P | 0.6 |
| 6 | ☐ | 200.000 | 201.042 | 900779.41 | 2.1397 | P | 0.4 |

y = 0.0106 * x + 1.2286E-004
R = 0.9999
DL = 0.009968
BEC = 0.01154

Weight: <None>
Min Conc: <None>

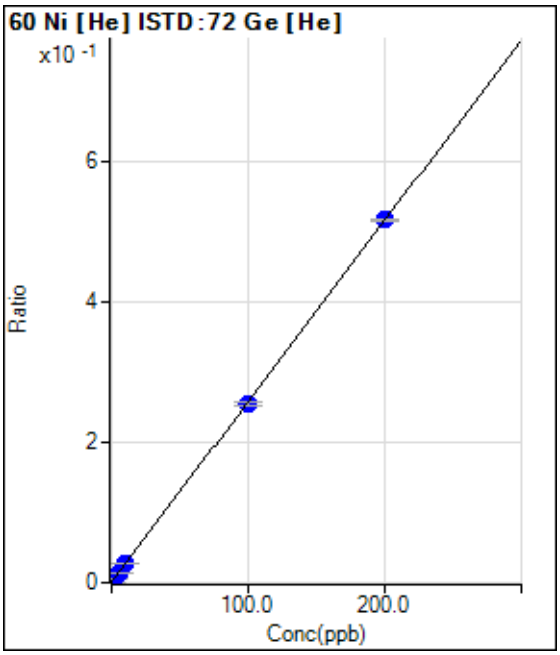



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1123.40 | 0.0008 | P | 7.9 |
| 2 | ☐ | 2.000 | 2.073 | 6578.36 | 0.0048 | P | 5.5 |
| 3 | ☐ | 5.000 | 5.404 | 15108.65 | 0.0111 | P | 5.3 |
| 4 | ☐ | 10.000 | 10.268 | 27862.04 | 0.0204 | P | 3.4 |
| 5 | ☐ | 100.000 | 101.563 | 264514.92 | 0.1946 | P | 1.2 |
| 6 | ☐ | 200.000 | 199.194 | 510197.21 | 0.3808 | P | 2.8 |

y = 0.0019 * x + 8.2118E-004
R = 1.0000
DL = 0.1026
BEC = 0.4305

Weight: <None>
Min Conc: <None>

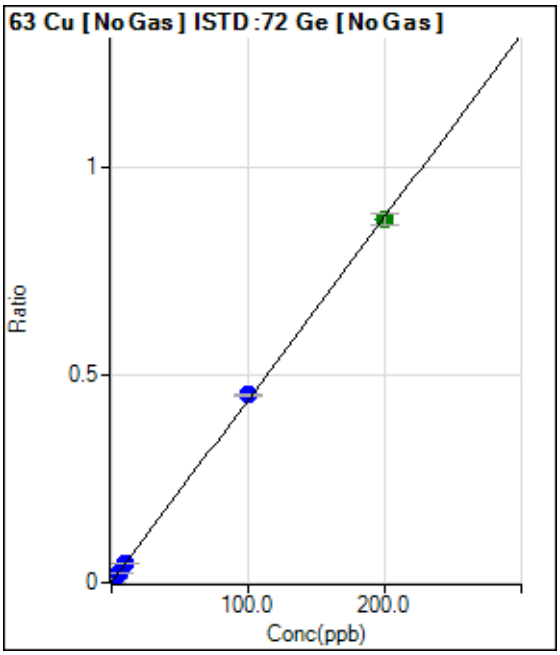
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 430.01 | 0.0010 | P | 19.5 |
| 2 | ☐ | 2.000 | 2.089 | 2780.35 | 0.0064 | P | 4.2 |
| 3 | ☐ | 5.000 | 4.957 | 5984.75 | 0.0138 | P | 8.3 |
| 4 | ☐ | 10.000 | 10.165 | 11815.33 | 0.0272 | P | 0.4 |
| 5 | ☐ | 100.000 | 99.015 | 110438.46 | 0.2559 | P | 2.3 |
| 6 | ☐ | 200.000 | 200.484 | 217689.80 | 0.5171 | P | 0.6 |

y = 0.0026 * x + 9.8962E-004
R = 1.0000
DL = 0.2245
BEC = 0.3844

Weight: <None>
Min Conc: <None>

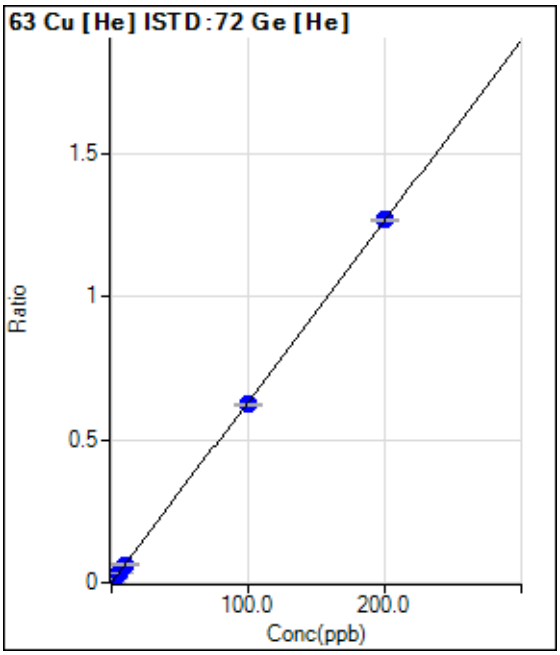



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1090.06 | 0.0008 | P | 14.1 |
| 2 | ☐ | 2.000 | 2.151 | 14147.59 | 0.0103 | P | 2.2 |
| 3 | ☐ | 5.000 | 5.311 | 32819.90 | 0.0242 | P | 2.1 |
| 4 | ☐ | 10.000 | 10.435 | 63786.06 | 0.0467 | P | 0.7 |
| 5 | ☐ | 100.000 | 102.875 | 616693.68 | 0.4536 | P | 1.1 |
| 6 | ☐ | 200.000 | 198.531 | 1171739.83 | 0.8746 | A | 3.2 |

y = 0.0044 * x + 7.9676E-004
R = 0.9999
DL = 0.07651
BEC = 0.181

Weight: <None>
Min Conc: <None>

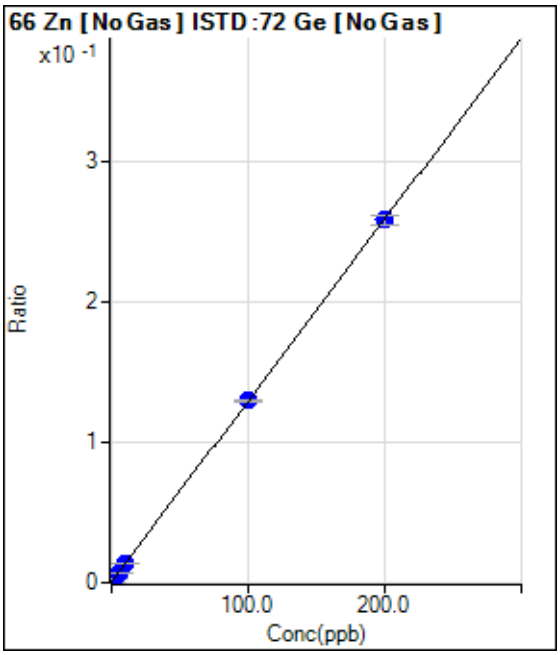
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 226.67 | 0.0005 | P | 45.1 |
| 2 | ☐ | 2.000 | 2.080 | 5971.41 | 0.0137 | P | 5.0 |
| 3 | ☐ | 5.000 | 5.012 | 14030.77 | 0.0322 | P | 5.6 |
| 4 | ☐ | 10.000 | 9.973 | 27671.81 | 0.0636 | P | 1.9 |
| 5 | ☐ | 100.000 | 98.633 | 269514.39 | 0.6245 | P | 1.3 |
| 6 | ☐ | 200.000 | 200.684 | 534684.00 | 1.2701 | P | 0.8 |

y = 0.0063 * x + 5.2130E-004
R = 1.0000
DL = 0.1115
BEC = 0.0824

Weight: <None>
Min Conc: <None>

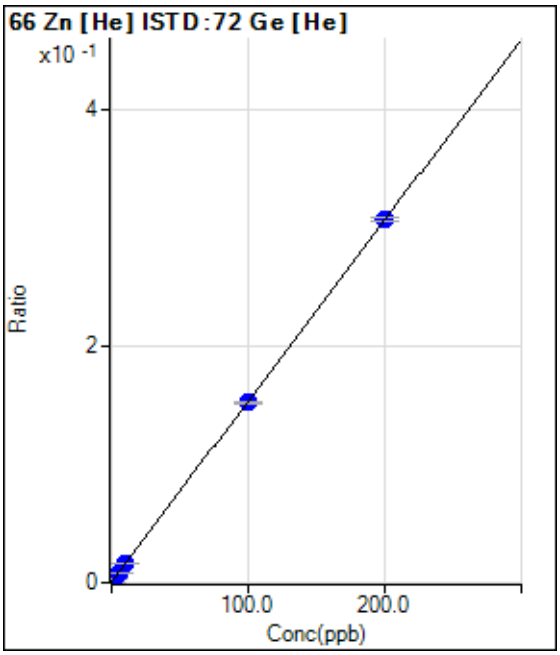



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 656.69 | 0.0005 | P | 5.0 |
| 2 | ☐ | 2.000 | 2.101 | 4404.13 | 0.0032 | P | 4.1 |
| 3 | ☐ | 5.000 | 5.194 | 9763.68 | 0.0072 | P | 2.7 |
| 4 | ☐ | 10.000 | 10.048 | 18379.41 | 0.0135 | P | 3.4 |
| 5 | ☐ | 100.000 | 100.308 | 176877.90 | 0.1301 | P | 1.1 |
| 6 | ☐ | 200.000 | 199.838 | 346655.59 | 0.2587 | P | 2.7 |

y = 0.0013 * x + 4.7955E-004
R = 1.0000
DL = 0.05602
BEC = 0.3711

Weight: <None>
Min Conc: <None>

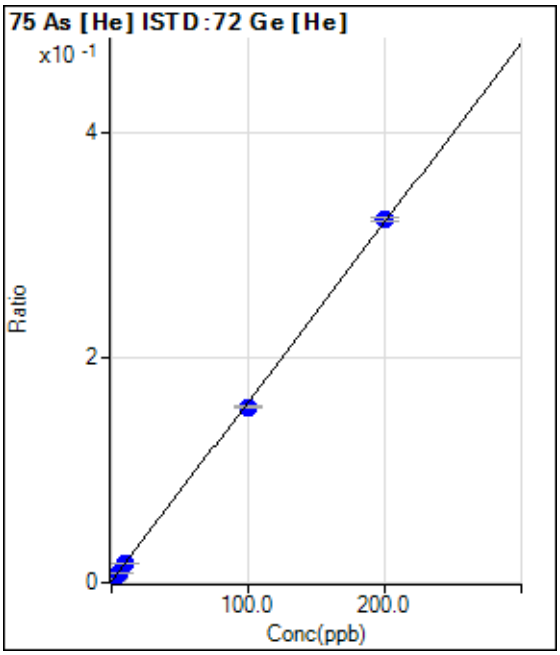
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 266.67 | 0.0006 | P | 38.6 |
| 2 | ☐ | 2.000 | 1.811 | 1476.77 | 0.0034 | P | 16.0 |
| 3 | ☐ | 5.000 | 4.769 | 3443.84 | 0.0079 | P | 0.7 |
| 4 | ☐ | 10.000 | 9.846 | 6815.18 | 0.0157 | P | 2.0 |
| 5 | ☐ | 100.000 | 99.398 | 65829.96 | 0.1526 | P | 1.0 |
| 6 | ☐ | 200.000 | 200.316 | 129164.69 | 0.3068 | P | 1.2 |

y = 0.0015 * x + 6.1553E-004
R = 1.0000
DL = 0.4664
BEC = 0.4027

Weight: <None>
Min Conc: <None>

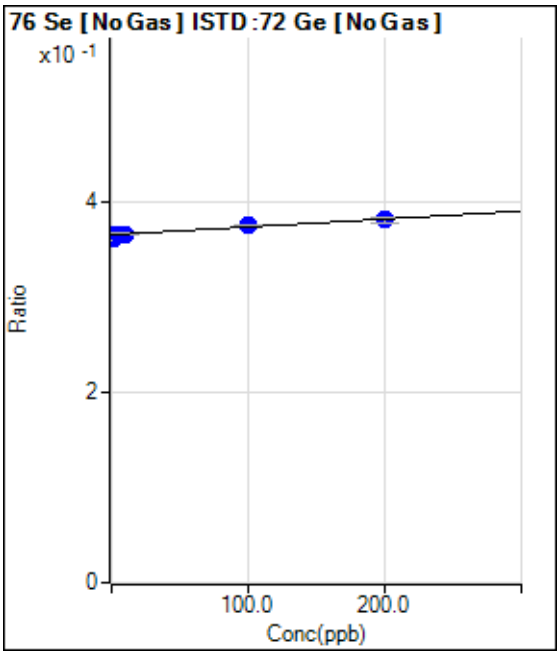



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 487.79 | 0.0011 | P | 3.1 |
| 2 | ☐ | 2.000 | 1.807 | 1747.90 | 0.0040 | P | 0.9 |
| 3 | ☐ | 5.000 | 4.804 | 3826.12 | 0.0088 | P | 2.8 |
| 4 | ☐ | 10.000 | 9.732 | 7238.64 | 0.0166 | P | 2.2 |
| 5 | ☐ | 100.000 | 97.229 | 67370.34 | 0.1561 | P | 0.4 |
| 6 | ☐ | 200.000 | 201.406 | 135628.21 | 0.3222 | P | 1.2 |

y = 0.0016 * x + 0.0011
R = 0.9999
DL = 0.06571
BEC = 0.7046

Weight: <None>
Min Conc: <None>

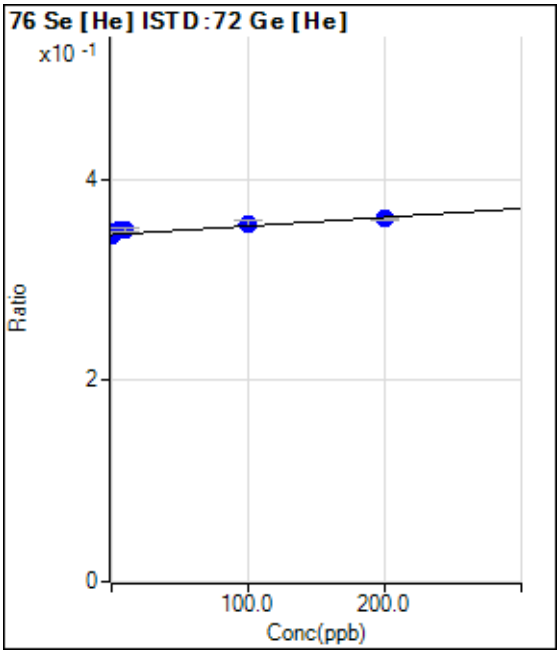
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 500798.13 | 0.3658 | P | 0.6 |
| 2 | ☐ | 2.000 | -41.179 | 499646.87 | 0.3624 | P | 1.4 |
| 3 | ☐ | 5.000 | 1.637 | 496983.51 | 0.3660 | P | 0.3 |
| 4 | ☐ | 10.000 | 8.383 | 500371.20 | 0.3665 | P | 0.4 |
| 5 | ☐ | 100.000 | 125.709 | 511645.08 | 0.3763 | P | 0.2 |
| 6 | ☐ | 200.000 | 187.742 | 511200.25 | 0.3815 | P | 1.9 |

y = 8.3267E-005 * x + 0.3658
R = 0.9693
DL = 74.54
BEC = 4394

Weight: <None>
Min Conc: <None>

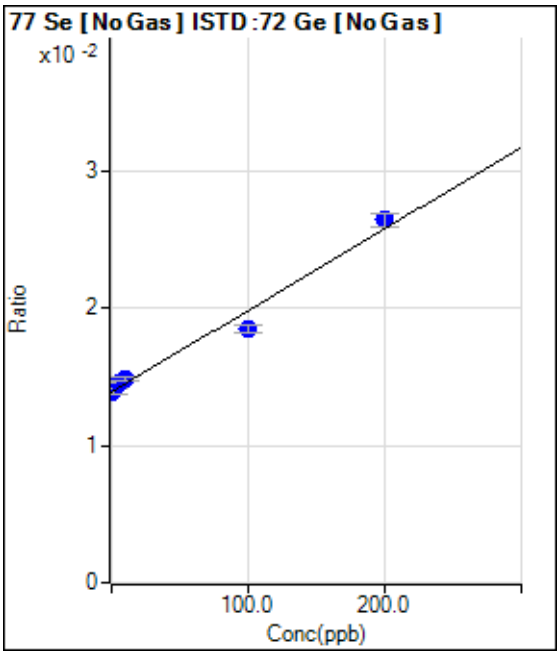



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 149977.15 | 0.3453 | P | 1.3 |
| 2 | ☐ | 2.000 | 28.737 | 151867.13 | 0.3478 | P | 1.2 |
| 3 | ☐ | 5.000 | 54.264 | 152470.54 | 0.3500 | P | 1.7 |
| 4 | ☐ | 10.000 | 52.640 | 152198.10 | 0.3499 | P | 1.2 |
| 5 | ☐ | 100.000 | 131.123 | 153954.59 | 0.3567 | P | 1.6 |
| 6 | ☐ | 200.000 | 180.807 | 151989.18 | 0.3610 | P | 0.8 |

y = 8.7029E-005 * x + 0.3453
R = 0.9549
DL = 150.5
BEC = 3968

Weight: <None>
Min Conc: <None>

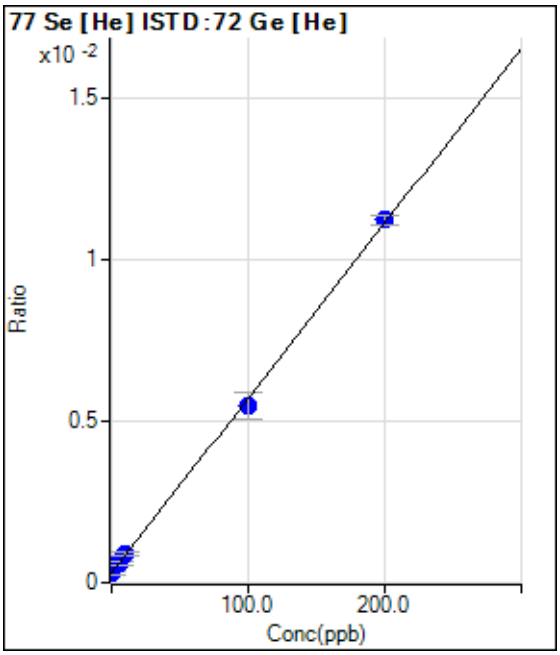
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 19063.86 | 0.0139 | P | 3.2 |
| 2 | ☐ | 2.000 | 0.895 | 19270.62 | 0.0140 | P | 3.3 |
| 3 | ☐ | 5.000 | 12.311 | 19904.99 | 0.0147 | P | 0.7 |
| 4 | ☐ | 10.000 | 15.330 | 20258.82 | 0.0148 | P | 1.8 |
| 5 | ☐ | 100.000 | 77.428 | 25193.90 | 0.0185 | P | 2.6 |
| 6 | ☐ | 200.000 | 210.848 | 35467.00 | 0.0265 | P | 3.5 |

y = 5.9487E-005 * x + 0.0139
R = 0.9895
DL = 22.25
BEC = 234.1

Weight: <None>
Min Conc: <None>

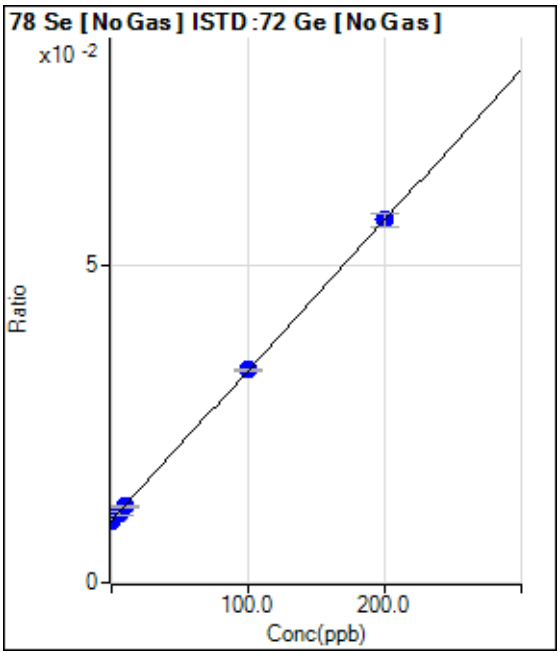



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 130.00 | 0.0003 | P | 22.6 |
| 2 | ☐ | 2.000 | 4.065 | 226.68 | 0.0005 | P | 9.7 |
| 3 | ☐ | 5.000 | 5.497 | 260.01 | 0.0006 | P | 18.0 |
| 4 | ☐ | 10.000 | 10.877 | 386.68 | 0.0009 | P | 13.7 |
| 5 | ☐ | 100.000 | 95.880 | 2370.25 | 0.0055 | P | 15.0 |
| 6 | ☐ | 200.000 | 201.983 | 4734.24 | 0.0112 | P | 2.8 |

y = 5.4184E-005 * x + 2.9911E-004
R = 0.9996
DL = 3.735
BEC = 5.52

Weight: <None>
Min Conc: <None>

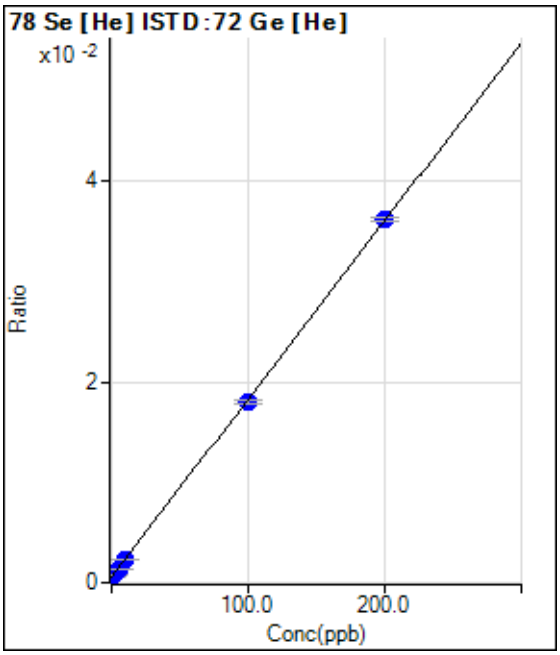
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 13396.89 | 0.0098 | P | 2.7 |
| 2 | ☐ | 2.000 | 1.538 | 13987.49 | 0.0101 | P | 3.2 |
| 3 | ☐ | 5.000 | 4.552 | 14748.31 | 0.0109 | P | 4.4 |
| 4 | ☐ | 10.000 | 9.277 | 16353.48 | 0.0120 | P | 1.1 |
| 5 | ☐ | 100.000 | 100.127 | 45517.22 | 0.0335 | P | 0.8 |
| 6 | ☐ | 200.000 | 199.988 | 76496.47 | 0.0571 | P | 3.4 |

y = 2.3660E-004 * x + 0.0098
R = 1.0000
DL = 3.383
BEC = 41.36

Weight: <None>
Min Conc: <None>

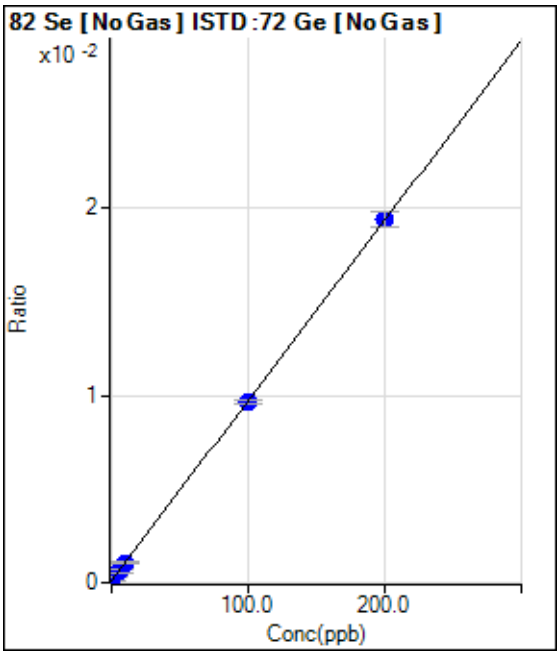



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 245.33 | 0.0006 | P | 2.0 |
| 2 | ☐ | 2.000 | 1.355 | 351.34 | 0.0008 | P | 2.7 |
| 3 | ☐ | 5.000 | 4.809 | 617.35 | 0.0014 | P | 1.4 |
| 4 | ☐ | 10.000 | 9.783 | 1000.04 | 0.0023 | P | 4.4 |
| 5 | ☐ | 100.000 | 98.731 | 7790.27 | 0.0181 | P | 1.8 |
| 6 | ☐ | 200.000 | 200.657 | 15200.55 | 0.0361 | P | 0.9 |

y = 1.7714E-004 * x + 5.6489E-004
R = 1.0000
DL = 0.1933
BEC = 3.189

Weight: <None>
Min Conc: <None>

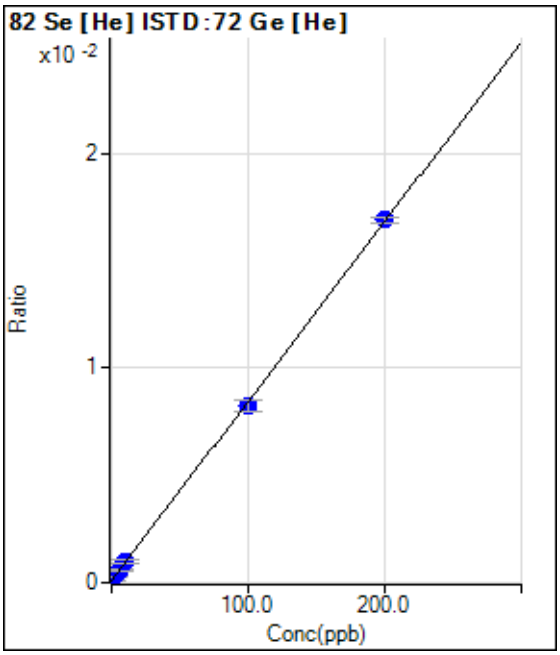
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 158.72 | 0.0001 | P | 49.9 |
| 2 | ☐ | 2.000 | 2.568 | 499.27 | 0.0004 | P | 19.2 |
| 3 | ☐ | 5.000 | 5.204 | 838.85 | 0.0006 | P | 26.7 |
| 4 | ☐ | 10.000 | 10.005 | 1472.39 | 0.0011 | P | 3.2 |
| 5 | ☐ | 100.000 | 99.265 | 13148.91 | 0.0097 | P | 2.6 |
| 6 | ☐ | 200.000 | 200.356 | 25984.38 | 0.0194 | P | 4.2 |

y = 9.6243E-005 * x + 1.1571E-004
R = 1.0000
DL = 1.8
BEC = 1.202

Weight: <None>
Min Conc: <None>

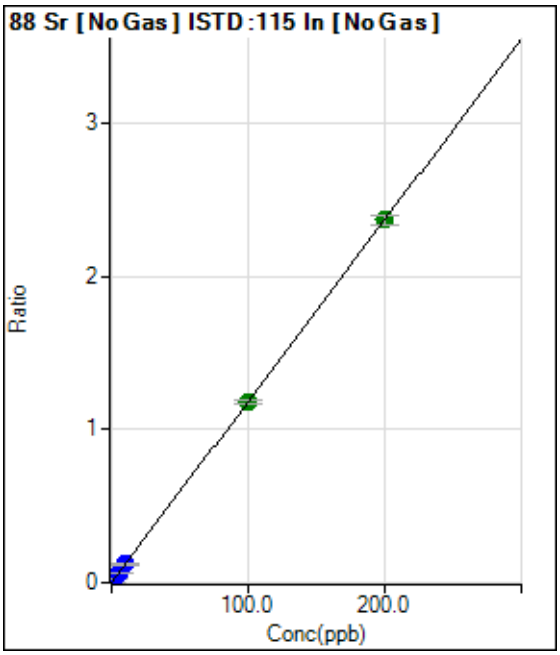



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 40.00 | 0.0001 | P | 42.7 |
| 2 | ☐ | 2.000 | 2.104 | 116.67 | 0.0003 | P | 28.3 |
| 3 | ☐ | 5.000 | 5.502 | 240.01 | 0.0006 | P | 12.8 |
| 4 | ☐ | 10.000 | 10.645 | 426.68 | 0.0010 | P | 14.4 |
| 5 | ☐ | 100.000 | 97.612 | 3560.54 | 0.0082 | P | 7.2 |
| 6 | ☐ | 200.000 | 201.148 | 7115.33 | 0.0169 | P | 1.7 |

y = 8.3577E-005 * x + 9.1851E-005
R = 0.9999
DL = 1.409
BEC = 1.099

Weight: <None>
Min Conc: <None>

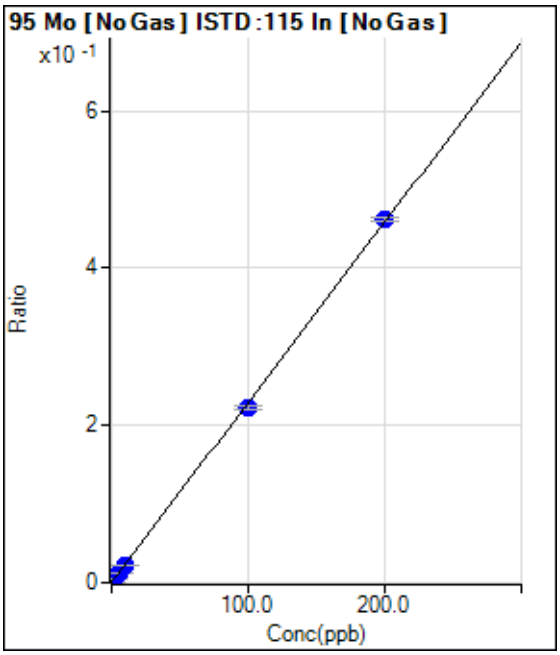
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1363.43 | 0.0009 | P | 8.6 |
| 2 | ☐ | 2.000 | 2.062 | 39715.93 | 0.0253 | P | 2.9 |
| 3 | ☐ | 5.000 | 5.197 | 96472.05 | 0.0623 | P | 1.6 |
| 4 | ☐ | 10.000 | 10.130 | 189938.47 | 0.1207 | P | 2.5 |
| 5 | ☐ | 100.000 | 99.619 | 1828631.54 | 1.1788 | A | 1.3 |
| 6 | ☐ | 200.000 | 200.178 | 3550388.38 | 2.3678 | A | 2.6 |

y = 0.0118 * x + 8.7790E-004
R = 1.0000
DL = 0.01917
BEC = 0.07425

Weight: <None>
Min Conc: <None>

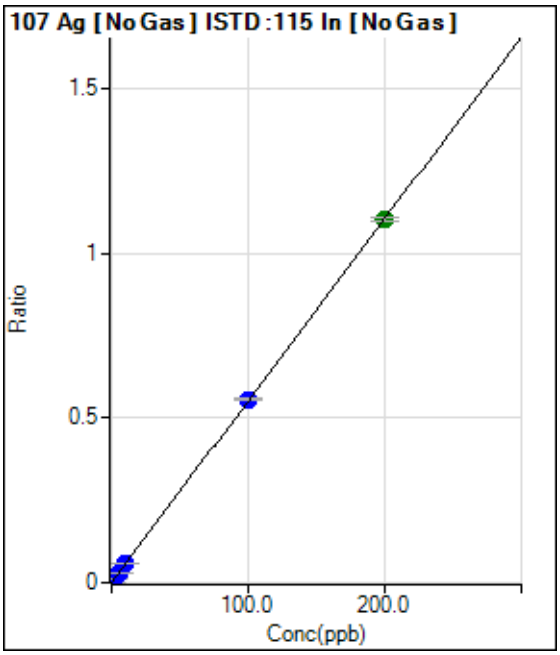



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 650.03 | 0.0004 | P | 18.7 |
| 2 | ☐ | 2.000 | 1.882 | 7435.55 | 0.0047 | P | 4.1 |
| 3 | ☐ | 5.000 | 4.853 | 17845.60 | 0.0115 | P | 2.4 |
| 4 | ☐ | 10.000 | 9.574 | 35159.98 | 0.0223 | P | 3.7 |
| 5 | ☐ | 100.000 | 97.288 | 346132.56 | 0.2231 | P | 2.1 |
| 6 | ☐ | 200.000 | 201.382 | 692097.88 | 0.4615 | P | 1.1 |

y = 0.0023 * x + 4.1934E-004
R = 0.9999
DL = 0.1028
BEC = 0.1832

Weight: <None>
Min Conc: <None>

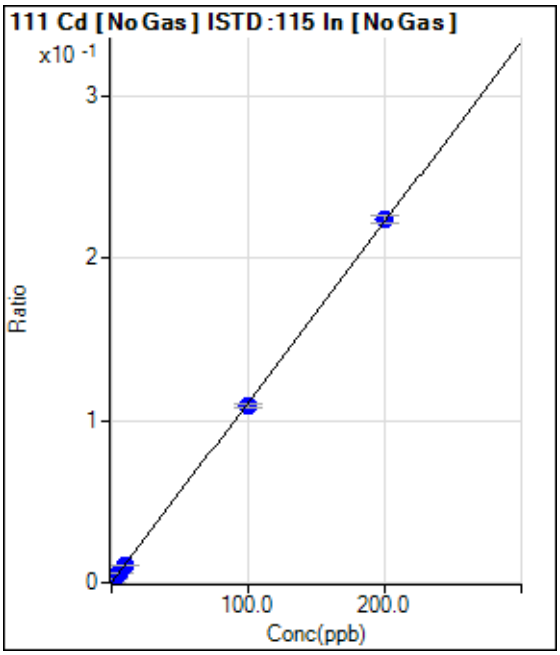
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 700.03 | 0.0005 | P | 10.6 |
| 2 | ☐ | 2.000 | 1.953 | 17675.43 | 0.0112 | P | 2.3 |
| 3 | ☐ | 5.000 | 5.143 | 44669.02 | 0.0289 | P | 3.3 |
| 4 | ☐ | 10.000 | 10.132 | 88836.91 | 0.0564 | P | 1.8 |
| 5 | ☐ | 100.000 | 100.837 | 864873.35 | 0.5575 | P | 1.7 |
| 6 | ☐ | 200.000 | 199.572 | 1654331.64 | 1.1030 | A | 1.0 |

y = 0.0055 * x + 4.5064E-004
R = 1.0000
DL = 0.02589
BEC = 0.08157

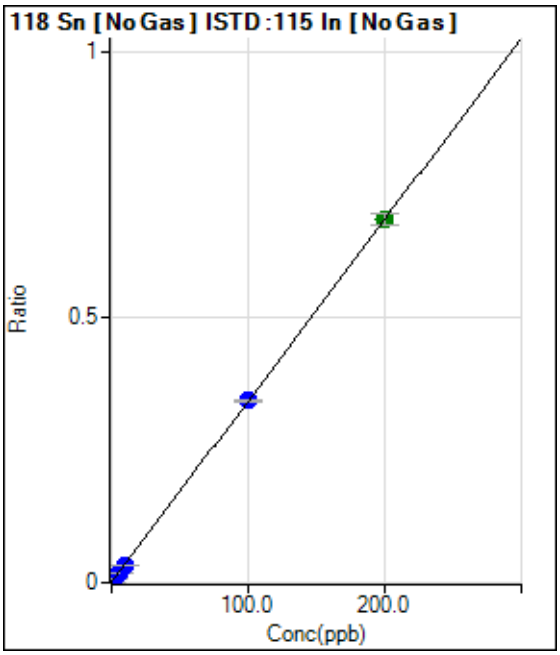
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | -7.40 | 0.0000 | P | -86.7 |
| 2 | ☐ | 2.000 | 1.937 | 3380.87 | 0.0021 | P | 3.9 |
| 3 | ☐ | 5.000 | 5.025 | 8641.10 | 0.0056 | P | 1.8 |
| 4 | ☐ | 10.000 | 9.700 | 16974.29 | 0.0108 | P | 1.7 |
| 5 | ☐ | 100.000 | 97.892 | 168839.82 | 0.1088 | P | 1.9 |
| 6 | ☐ | 200.000 | 201.069 | 335252.45 | 0.2236 | P | 2.2 |

y = 0.0011 * x - 4.7487E-006
R = 0.9999
DL = 0.0111
BEC = -0.004271

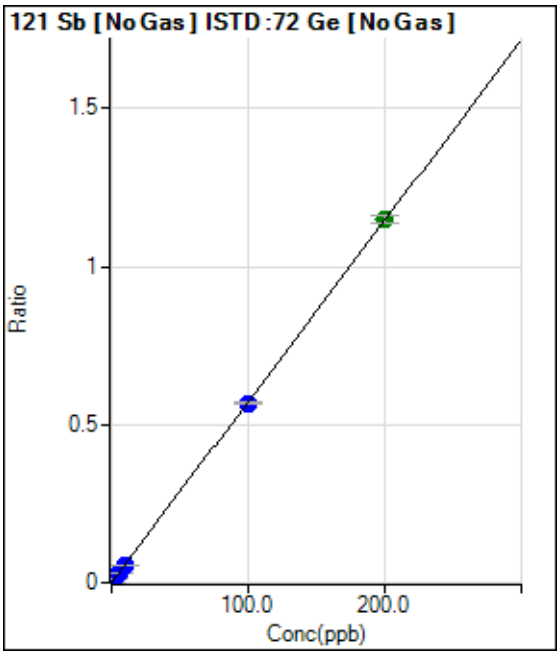
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1203.41 | 0.0008 | P | 5.9 |
| 2 | ☐ | 2.000 | 1.907 | 11475.23 | 0.0073 | P | 1.3 |
| 3 | ☐ | 5.000 | 4.881 | 27028.27 | 0.0175 | P | 0.5 |
| 4 | ☐ | 10.000 | 9.779 | 53867.24 | 0.0342 | P | 0.3 |
| 5 | ☐ | 100.000 | 100.102 | 532044.37 | 0.3430 | P | 1.8 |
| 6 | ☐ | 200.000 | 199.964 | 1026190.69 | 0.6844 | A | 3.1 |

y = 0.0034 * x + 7.7530E-004
R = 1.0000
DL = 0.04003
BEC = 0.2268

Weight: <None>
Min Conc: <None>

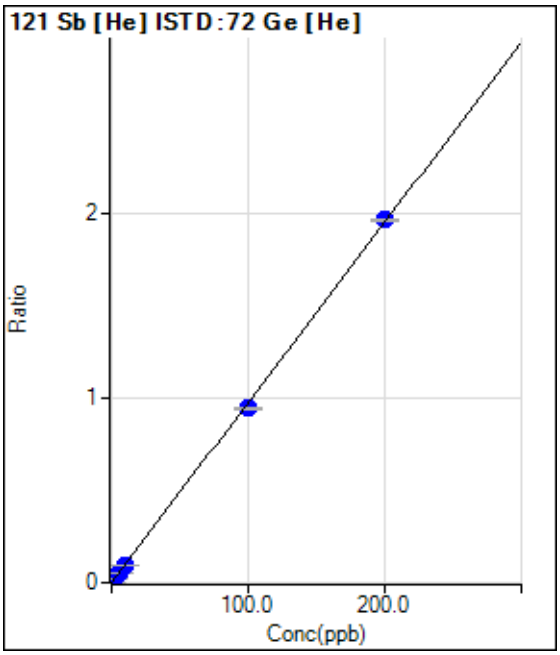



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 613.36 | 0.0004 | P | 8.6 |
| 2 | ☐ | 2.000 | 1.873 | 15382.61 | 0.0112 | P | 3.2 |
| 3 | ☐ | 5.000 | 4.933 | 38914.64 | 0.0287 | P | 2.5 |
| 4 | ☐ | 10.000 | 9.876 | 77732.58 | 0.0569 | P | 1.2 |
| 5 | ☐ | 100.000 | 99.055 | 770959.57 | 0.5671 | P | 0.9 |
| 6 | ☐ | 200.000 | 200.482 | 1537408.36 | 1.1472 | A | 2.1 |

y = 0.0057 * x + 4.4838E-004
R = 1.0000
DL = 0.02015
BEC = 0.07839

Weight: <None>
Min Conc: <None>

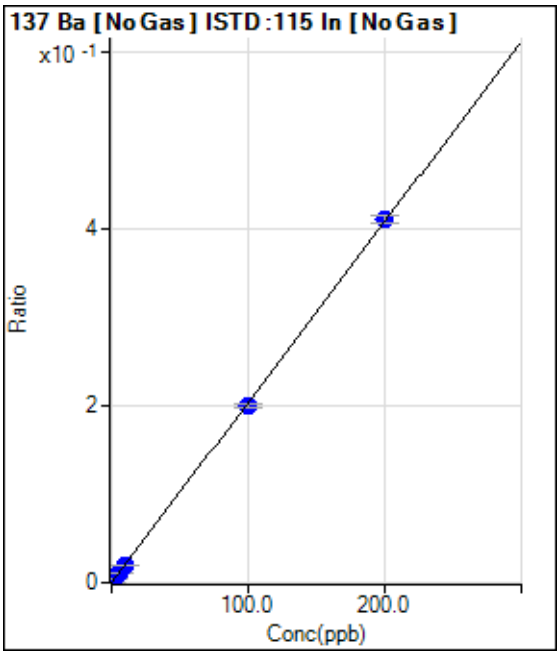
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 323.35 | 0.0007 | P | 37.4 |
| 2 | ☐ | 2.000 | 1.848 | 8192.70 | 0.0188 | P | 3.9 |
| 3 | ☐ | 5.000 | 4.785 | 20649.91 | 0.0474 | P | 1.4 |
| 4 | ☐ | 10.000 | 9.708 | 41495.95 | 0.0954 | P | 4.2 |
| 5 | ☐ | 100.000 | 97.031 | 408612.73 | 0.9468 | P | 1.1 |
| 6 | ☐ | 200.000 | 201.506 | 827434.44 | 1.9655 | P | 0.8 |

y = 0.0098 * x + 7.4473E-004
R = 0.9998
DL = 0.08578
BEC = 0.07638

Weight: <None>
Min Conc: <None>

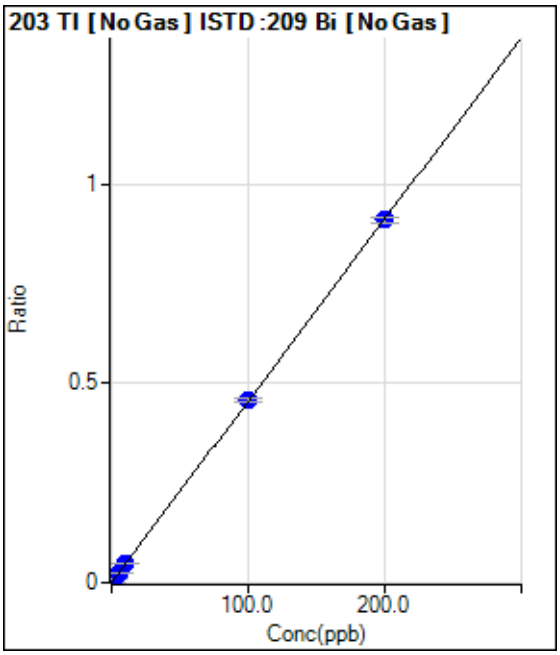



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 150.00 | 0.0001 | P | 18.4 |
| 2 | ☐ | 2.000 | 1.828 | 6008.15 | 0.0038 | P | 8.3 |
| 3 | ☐ | 5.000 | 4.874 | 15522.87 | 0.0100 | P | 2.7 |
| 4 | ☐ | 10.000 | 9.682 | 31211.18 | 0.0198 | P | 2.7 |
| 5 | ☐ | 100.000 | 97.755 | 309132.90 | 0.1993 | P | 2.6 |
| 6 | ☐ | 200.000 | 201.143 | 614806.46 | 0.4100 | P | 2.0 |

y = 0.0020 * x + 9.6727E-005
R = 0.9999
DL = 0.02618
BEC = 0.04747

Weight: <None>
Min Conc: <None>

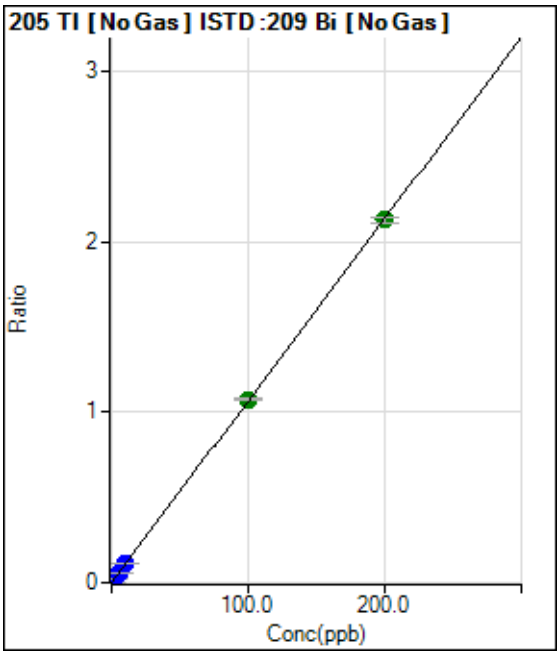
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 173.34 | 0.0002 | P | 27.3 |
| 2 | ☐ | 2.000 | 2.229 | 11088.46 | 0.0103 | P | 3.9 |
| 3 | ☐ | 5.000 | 5.382 | 26728.97 | 0.0247 | P | 1.2 |
| 4 | ☐ | 10.000 | 10.436 | 52209.10 | 0.0477 | P | 2.7 |
| 5 | ☐ | 100.000 | 100.402 | 499334.39 | 0.4572 | P | 2.1 |
| 6 | ☐ | 200.000 | 199.765 | 983252.22 | 0.9095 | P | 1.3 |

y = 0.0046 * x + 1.6022E-004
R = 1.0000
DL = 0.02877
BEC = 0.0352

Weight: <None>
Min Conc: <None>

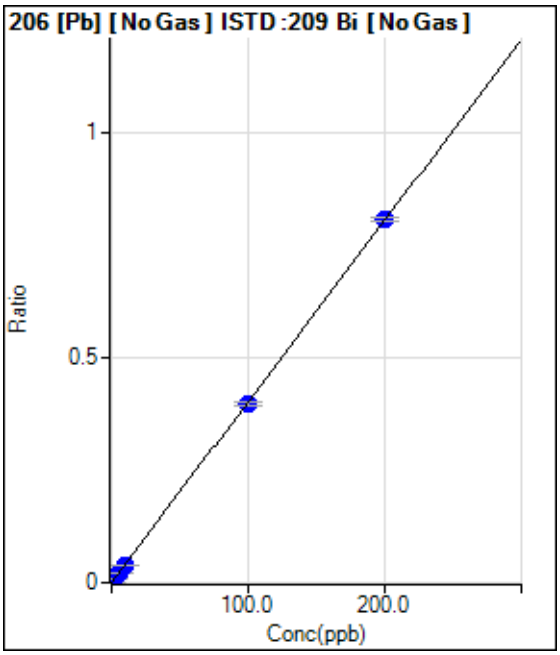



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 473.35 | 0.0004 | P | 19.3 |
| 2 | ☐ | 2.000 | 2.146 | 25132.25 | 0.0234 | P | 0.9 |
| 3 | ☐ | 5.000 | 5.392 | 62898.21 | 0.0580 | P | 1.2 |
| 4 | ☐ | 10.000 | 10.342 | 121443.72 | 0.1109 | P | 1.8 |
| 5 | ☐ | 100.000 | 100.833 | 1176736.13 | 1.0773 | A | 1.3 |
| 6 | ☐ | 200.000 | 199.555 | 2304287.26 | 2.1316 | A | 1.4 |

y = 0.0107 * x + 4.3774E-004
R = 1.0000
DL = 0.02369
BEC = 0.04099

Weight: <None>
Min Conc: <None>

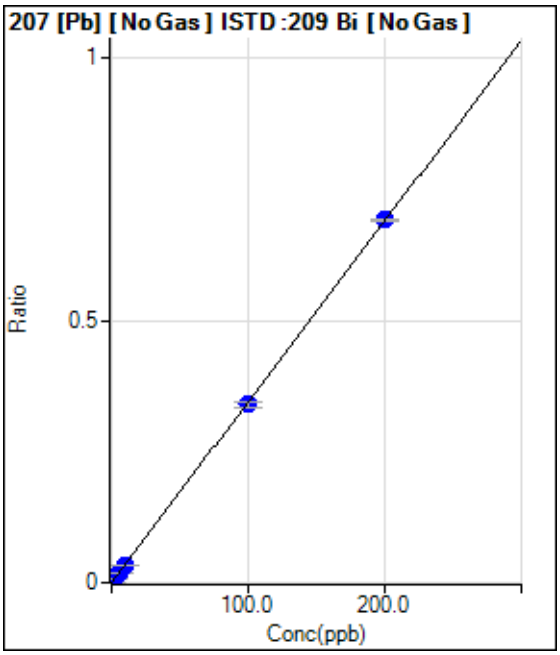
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 206.67 | 0.0002 | P | 8.8 |
| 2 | ☐ | 2.000 | 2.056 | 9090.13 | 0.0084 | P | 3.9 |
| 3 | ☐ | 5.000 | 4.859 | 21355.26 | 0.0197 | P | 1.2 |
| 4 | ☐ | 10.000 | 9.935 | 43900.79 | 0.0401 | P | 1.3 |
| 5 | ☐ | 100.000 | 99.136 | 434935.55 | 0.3983 | P | 2.2 |
| 6 | ☐ | 200.000 | 200.438 | 870258.53 | 0.8050 | P | 1.1 |

y = 0.0040 * x + 1.9096E-004
R = 1.0000
DL = 0.01262
BEC = 0.04756

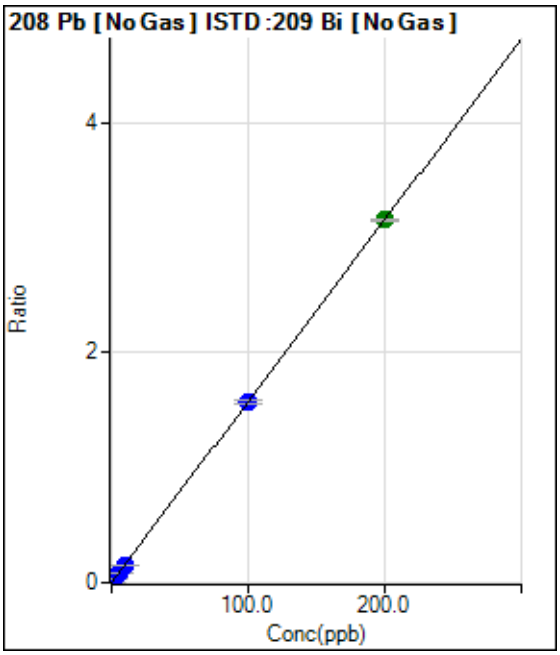
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 190.01 | 0.0002 | P | 15.4 |
| 2 | ☐ | 2.000 | 2.030 | 7709.17 | 0.0072 | P | 3.8 |
| 3 | ☐ | 5.000 | 4.818 | 18173.54 | 0.0168 | P | 0.3 |
| 4 | ☐ | 10.000 | 9.724 | 36868.14 | 0.0337 | P | 2.7 |
| 5 | ☐ | 100.000 | 98.524 | 370676.25 | 0.3394 | P | 2.7 |
| 6 | ☐ | 200.000 | 200.756 | 747534.36 | 0.6915 | P | 0.6 |

y = 0.0034 * x + 1.7571E-004
R = 1.0000
DL = 0.02364
BEC = 0.05103

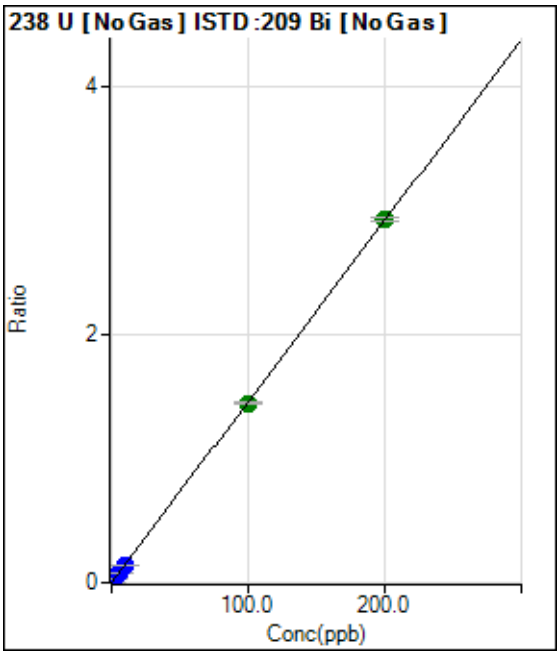
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 803.37 | 0.0007 | P | 16.4 |
| 2 | ☐ | 2.000 | 2.045 | 35470.29 | 0.0330 | P | 2.9 |
| 3 | ☐ | 5.000 | 4.945 | 85239.63 | 0.0786 | P | 0.8 |
| 4 | ☐ | 10.000 | 9.880 | 171276.18 | 0.1564 | P | 0.7 |
| 5 | ☐ | 100.000 | 99.673 | 1715464.42 | 1.5709 | P | 2.4 |
| 6 | ☐ | 200.000 | 200.170 | 3409565.73 | 3.1539 | A | 0.8 |

y = 0.0158 * x + 7.4350E-004
R = 1.0000
DL = 0.02317
BEC = 0.0472

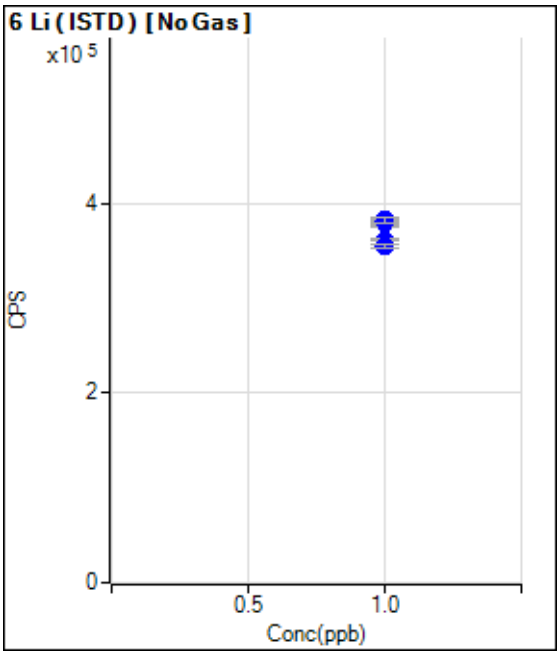
Weight: <None>
Min Conc: <None>



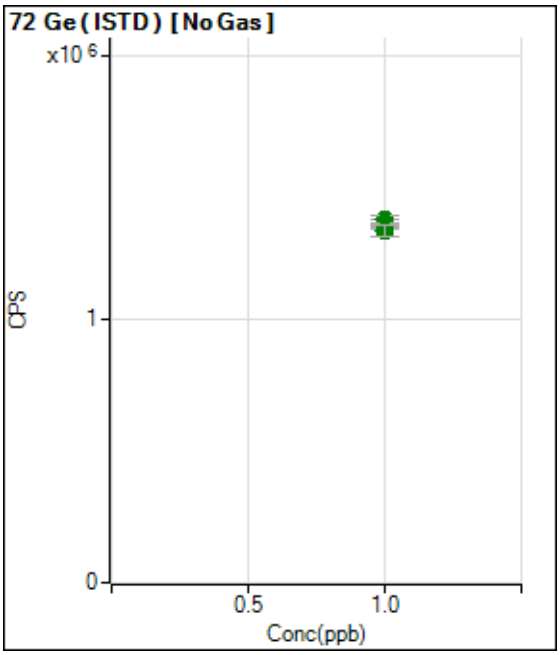

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 373.35 | 0.0003 | P | 19.2 |
| 2 | ☐ | 2.000 | 1.936 | 30728.85 | 0.0285 | P | 1.7 |
| 3 | ☐ | 5.000 | 4.791 | 76022.13 | 0.0701 | P | 0.7 |
| 4 | ☐ | 10.000 | 9.507 | 152045.99 | 0.1388 | P | 1.0 |
| 5 | ☐ | 100.000 | 99.092 | 1577036.23 | 1.4438 | A | 1.6 |
| 6 | ☐ | 200.000 | 200.484 | 3157388.91 | 2.9207 | A | 0.9 |

y = 0.0146 * x + 3.4353E-004
R = 1.0000
DL = 0.01361
BEC = 0.02358

Weight: <None>
Min Conc: <None>

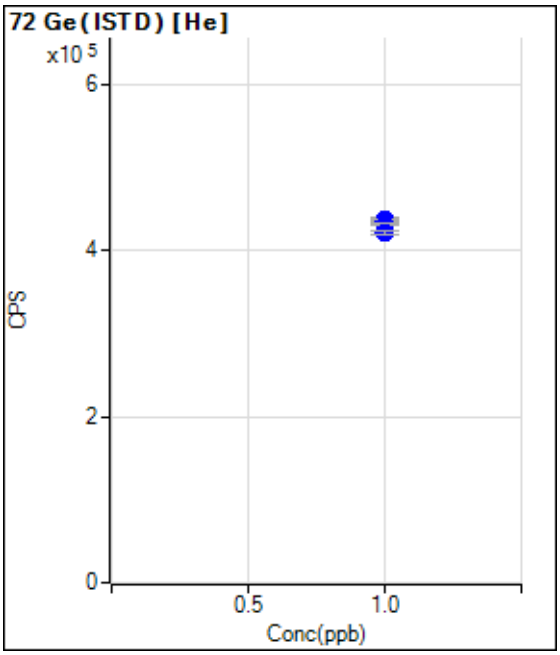



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 382126.43 | | P | 0.8 |
| 2 | ☐ | 1.000 | | 378879.07 | | P | 1.6 |
| 3 | ☐ | 1.000 | | 378112.11 | | P | 1.9 |
| 4 | ☐ | 1.000 | | 381757.62 | | P | 1.5 |
| 5 | ☐ | 1.000 | | 360861.38 | | P | 0.7 |
| 6 | ☐ | 1.000 | | 354731.25 | | P | 1.4 |

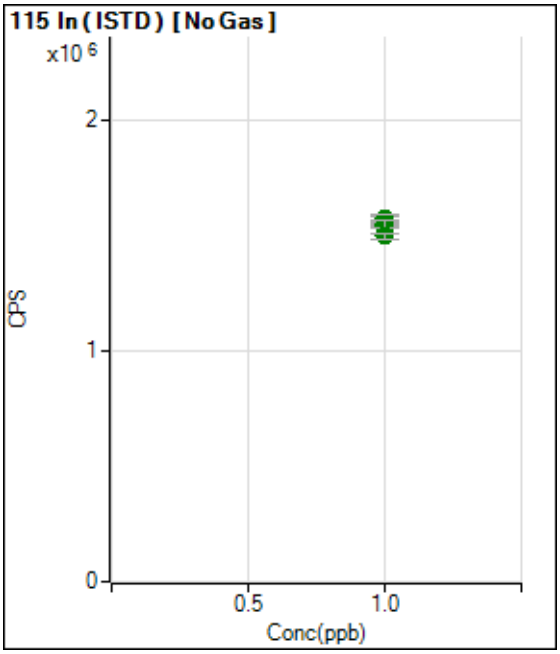



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1368912.79 | | A | 1.3 |
| 2 | ☐ | 1.000 | | 1378992.79 | | A | 2.6 |
| 3 | ☐ | 1.000 | | 1357936.70 | | A | 1.8 |
| 4 | ☐ | 1.000 | | 1365143.42 | | A | 0.6 |
| 5 | ☐ | 1.000 | | 1359648.94 | | A | 1.2 |
| 6 | ☐ | 1.000 | | 1340630.92 | | A | 3.3 |

Calibration for 020_ICV.d

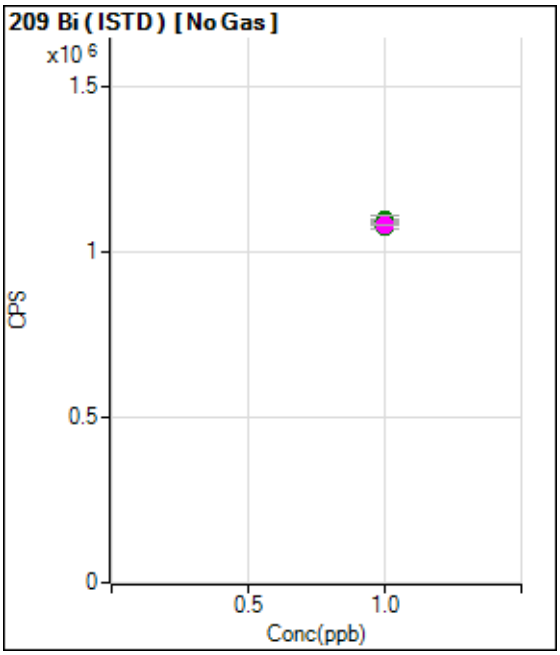



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 434354.13 | | P | 1.0 |
| 2 | ☐ | 1.000 | | 436609.94 | | P | 0.9 |
| 3 | ☐ | 1.000 | | 435689.86 | | P | 2.1 |
| 4 | ☐ | 1.000 | | 435031.73 | | P | 1.4 |
| 5 | ☐ | 1.000 | | 431537.74 | | P | 0.9 |
| 6 | ☐ | 1.000 | | 420984.46 | | P | 1.2 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1552260.58 | | A | 1.1 |
| 2 | ☐ | 1.000 | | 1572902.71 | | A | 1.5 |
| 3 | ☐ | 1.000 | | 1547971.32 | | A | 1.3 |
| 4 | ☐ | 1.000 | | 1574861.98 | | A | 2.4 |
| 5 | ☐ | 1.000 | | 1551610.42 | | A | 2.4 |
| 6 | ☐ | 1.000 | | 1499976.33 | | A | 2.0 |

Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1083437.77 | | A | 2.6 |
| 2 | ☐ | 1.000 | | 1076245.19 | | A | 1.3 |
| 3 | ☐ | 1.000 | | 1083983.78 | | M | 0.5 |
| 4 | ☐ | 1.000 | | 1095289.67 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 1092506.34 | | A | 2.6 |
| 6 | ☐ | 1.000 | | 1081056.78 | | M | 0.3 |

# Calibration Blank Report

**Sample Table**

| | |
|---|---|
| Sample Name | CAL BLK |
| Data File Name | 013CALB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T10:39:38-05:00 |
| Sample Type | CalBlk |
| Level | 1 |
| Dilution | 1 |
| Comment | |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 27567 | 0.00 |
| Be | 9 | 1 | No Gas | 92 | 12.39 |
| V | 51 | 2 | He | 29625 | 0.00 |
| Cr | 52 | 2 | He | 14418 | 0.01 |
| Fe | 56 | 2 | He | 45984 | 0.00 |
| Se | 78 | 2 | He | 245 | 0.51 |
| As | 75 | 2 | He | 488 | 0.45 |
| Ca | 44 | 2 | He | 707 | 1.14 |
| Na | 23 | 2 | He | 46591 | 0.00 |
| Mg | 24 | 2 | He | 4221 | 0.09 |
| K | 39 | 2 | He | 243636 | 0.00 |
| Mn | 55 | 2 | He | 587 | 2.98 |
| Co | 59 | 2 | He | 53 | 53.70 |
| Ni | 60 | 2 | He | 430 | 4.62 |
| Cu | 63 | 2 | He | 227 | 19.98 |
| Zn | 66 | 2 | He | 267 | 14.09 |
| Al | 27 | 2 | He | 1027 | 0.88 |
| B | 11 | 1 | No Gas | 6668 | 0.06 |
| Al | 27 | 1 | No Gas | 32612 | 0.00 |
| Si | 28 | 1 | No Gas | 383503 | 0.00 |
| Ag | 107 | 1 | No Gas | 700 | 1.67 |
| Sr | 88 | 1 | No Gas | 1363 | 0.70 |
| Mo | 95 | 1 | No Gas | 650 | 2.73 |
| Sn | 118 | 1 | No Gas | 1203 | 0.49 |
| Sb | 121 | 1 | No Gas | 613 | 1.20 |
| Ba | 137 | 1 | No Gas | 150 | 11.76 |
| Tl | 205 | 1 | No Gas | 473 | 3.85 |
| Tl | 203 | 1 | No Gas | 173 | 15.37 |
| Pb | 208 | 1 | No Gas | 803 | 1.74 |
| U | 238 | 1 | No Gas | 373 | 5.80 |
| Ca | 43 | 2 | He | 50 | 0.00 |
| Sb | 121 | 2 | He | 323 | 11.57 |
| Ti | 47 | 2 | He | 27 | 214.81 |
| Cu | 63 | 1 | No Gas | 1090 | 1.24 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 382126 | 0.78 |

# Calibration Blank Report

| | | | | | |
|---|---|---|---|---|---|
| Ge | 72 | 2 | He | 434354 | 1.02 |
| Ge | 72 | 1 | No Gas | 1368913 | 1.35 |
| In | 115 | 1 | No Gas | 1552261 | 1.13 |
| Bi | 209 | 1 | No Gas | 1083438 | 2.61 |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 2/10/200 |
| Data File Name | 014CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T10:41:30-05:00 |
| Sample Type | CalStd |
| Level | 2 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 013CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 3564 | 0.08 |
| V | 51 | 2 | He | 36482 | 0.00 |
| Cr | 52 | 2 | He | 20539 | 0.01 |
| Fe | 56 | 2 | He | 704707 | 0.00 |
| Se | 78 | 2 | He | 351 | 0.52 |
| As | 75 | 2 | He | 1748 | 0.02 |
| Ca | 44 | 2 | He | 6332 | 0.05 |
| Na | 23 | 2 | He | 161624 | 0.00 |
| Mg | 24 | 2 | He | 74351 | 0.00 |
| K | 39 | 2 | He | 367962 | 0.00 |
| Mn | 55 | 2 | He | 6638 | 0.03 |
| Co | 59 | 2 | He | 9597 | 0.04 |
| Ni | 60 | 2 | He | 2780 | 0.14 |
| Cu | 63 | 2 | He | 5971 | 0.08 |
| Zn | 66 | 2 | He | 1477 | 1.06 |
| Al | 27 | 2 | He | 1757 | 0.55 |
| B | 11 | 1 | No Gas | 15914 | 0.02 |
| Al | 27 | 1 | No Gas | 46251 | 0.01 |
| Si | 28 | 1 | No Gas | 424099 | 0.00 |
| Ag | 107 | 1 | No Gas | 17675 | 0.01 |
| Cd | 111 | 1 | No Gas | 3381 | 0.14 |
| Sr | 88 | 1 | No Gas | 39716 | 0.00 |
| Mo | 95 | 1 | No Gas | 7436 | 0.04 |
| Sn | 118 | 1 | No Gas | 11475 | 0.01 |
| Sb | 121 | 1 | No Gas | 15383 | 0.01 |
| Ba | 137 | 1 | No Gas | 6008 | 0.11 |
| Tl | 205 | 1 | No Gas | 25132 | 0.01 |
| Tl | 203 | 1 | No Gas | 11088 | 0.02 |
| Pb | 208 | 1 | No Gas | 35470 | 0.01 |
| U | 238 | 1 | No Gas | 30729 | 0.01 |
| Ca | 43 | 2 | He | 343 | 5.11 |
| Sb | 121 | 2 | He | 8193 | 0.06 |
| Cu | 63 | 1 | No Gas | 14148 | 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 | 378879 | 1.61 | 382126 | 99.15 | 70 | 120 | |
| Ge | 72 | 2 | He | 436610 | 0.91 | 434354 | 100.52 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1378993 | 2.57 | 1368913 | 100.74 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1572903 | 1.46 | 1552261 | 101.33 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1076245 | 1.26 | 1083438 | 99.34 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 5/25/500 |
| Data File Name | 015CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T10:43:22-05:00 |
| Sample Type | CalStd |
| Level | 3 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 013CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 8993 | 0.02 |
| V | 51 | 2 | He | 45053 | 0.00 |
| Cr | 52 | 2 | He | 31503 | 0.00 |
| Fe | 56 | 2 | He | 1649458 | 0.00 |
| Se | 78 | 2 | He | 617 | 0.48 |
| As | 75 | 2 | He | 3826 | 0.09 |
| Ca | 44 | 2 | He | 14695 | 0.03 |
| Na | 23 | 2 | He | 330572 | 0.00 |
| Mg | 24 | 2 | He | 178350 | 0.00 |
| K | 39 | 2 | He | 553334 | 0.00 |
| Mn | 55 | 2 | He | 16090 | 0.01 |
| Co | 59 | 2 | He | 23554 | 0.02 |
| Ni | 60 | 2 | He | 5985 | 0.10 |
| Cu | 63 | 2 | He | 14031 | 0.03 |
| Zn | 66 | 2 | He | 3444 | 0.05 |
| Al | 27 | 2 | He | 2017 | 0.18 |
| B | 11 | 1 | No Gas | 29912 | 0.01 |
| Al | 27 | 1 | No Gas | 65980 | 0.00 |
| Si | 28 | 1 | No Gas | 500219 | 0.00 |
| Ag | 107 | 1 | No Gas | 44669 | 0.00 |
| Cd | 111 | 1 | No Gas | 8641 | 0.01 |
| Sr | 88 | 1 | No Gas | 96472 | 0.00 |
| Mo | 95 | 1 | No Gas | 17846 | 0.01 |
| Sn | 118 | 1 | No Gas | 27028 | 0.00 |
| Sb | 121 | 1 | No Gas | 38915 | 0.00 |
| Ba | 137 | 1 | No Gas | 15523 | 0.01 |
| Tl | 205 | 1 | No Gas | 62898 | 0.00 |
| Tl | 203 | 1 | No Gas | 26729 | 0.00 |
| Pb | 208 | 1 | No Gas | 85240 | 0.00 |
| U | 238 | 1 | No Gas | 76022 | 0.00 |
| Ca | 43 | 2 | He | 827 | 1.32 |
| Sb | 121 | 2 | He | 20650 | 0.00 |
| Cu | 63 | 1 | No Gas | 32820 | 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 | 378112 | 1.92 | 382126 | 98.95 | 70 | 120 | |
| Ge | 72 | 2 | He | 435690 | 2.11 | 434354 | 100.31 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1357937 | 1.76 | 1368913 | 99.20 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1547971 | 1.32 | 1552261 | 99.72 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1083984 | 0.48 | 1083438 | 100.05 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 10/50/100 |
| Data File Name | 016CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T10:45:14-05:00 |
| Sample Type | CalStd |
| Level | 4 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 013CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 17740 | 0.01 |
| V | 51 | 2 | He | 57831 | 0.00 |
| Cr | 52 | 2 | He | 48948 | 0.01 |
| Fe | 56 | 2 | He | 3191538 | 0.00 |
| Se | 78 | 2 | He | 1000 | 0.57 |
| As | 75 | 2 | He | 7239 | 0.04 |
| Ca | 44 | 2 | He | 28206 | 0.01 |
| Na | 23 | 2 | He | 609062 | 0.00 |
| Mg | 24 | 2 | He | 351812 | 0.00 |
| K | 39 | 2 | He | 861502 | 0.00 |
| Mn | 55 | 2 | He | 31510 | 0.00 |
| Co | 59 | 2 | He | 45801 | 0.00 |
| Ni | 60 | 2 | He | 11815 | 0.01 |
| Cu | 63 | 2 | He | 27672 | 0.01 |
| Zn | 66 | 2 | He | 6815 | 0.04 |
| Al | 27 | 2 | He | 3417 | 0.13 |
| B | 11 | 1 | No Gas | 51824 | 0.00 |
| Al | 27 | 1 | No Gas | 104746 | 0.00 |
| Si | 28 | 1 | No Gas | 617166 | 0.00 |
| Ag | 107 | 1 | No Gas | 88837 | 0.00 |
| Cd | 111 | 1 | No Gas | 16974 | 0.01 |
| Sr | 88 | 1 | No Gas | 189938 | 0.00 |
| Mo | 95 | 1 | No Gas | 35160 | 0.00 |
| Sn | 118 | 1 | No Gas | 53867 | 0.00 |
| Sb | 121 | 1 | No Gas | 77733 | 0.00 |
| Ba | 137 | 1 | No Gas | 31211 | 0.00 |
| Tl | 205 | 1 | No Gas | 121444 | 0.00 |
| Tl | 203 | 1 | No Gas | 52209 | 0.00 |
| Pb | 208 | 1 | No Gas | 171276 | 0.00 |
| U | 238 | 1 | No Gas | 152046 | 0.00 |
| Ca | 43 | 2 | He | 1580 | 0.21 |
| Sb | 121 | 2 | He | 41496 | 0.01 |
| Cu | 63 | 1 | No Gas | 63786 | 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 | 381758 | 1.49 | 382126 | 99.90 | 70 | 120 | |
| Ge | 72 | 2 | He | 435032 | 1.40 | 434354 | 100.16 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1365143 | 0.63 | 1368913 | 99.72 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1574862 | 2.38 | 1552261 | 101.46 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1095290 | 0.66 | 1083438 | 101.09 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 100/500/10K |
| Data File Name | 017CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T10:47:06-05:00 |
| Sample Type | CalStd |
| Level | 5 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 013CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 176687 | 0.00 |
| V | 51 | 2 | He | 339463 | 0.00 |
| Cr | 52 | 2 | He | 358533 | 0.00 |
| Fe | 56 | 2 | He | 30838657 | 0.00 |
| Se | 78 | 2 | He | 7790 | 0.01 |
| As | 75 | 2 | He | 67370 | 0.00 |
| Ca | 44 | 2 | He | 275729 | 0.00 |
| Na | 23 | 2 | He | 5144773 | 0.00 |
| Mg | 24 | 2 | He | 3063974 | 0.00 |
| K | 39 | 2 | He | 6006354 | 0.00 |
| Mn | 55 | 2 | He | 302702 | 0.00 |
| Co | 59 | 2 | He | 449796 | 0.00 |
| Ni | 60 | 2 | He | 110438 | 0.00 |
| Cu | 63 | 2 | He | 269514 | 0.00 |
| Zn | 66 | 2 | He | 65830 | 0.00 |
| Al | 27 | 2 | He | 26312 | 0.01 |
| B | 11 | 1 | No Gas | 457991 | 0.00 |
| Al | 27 | 1 | No Gas | 803152 | 0.00 |
| Si | 28 | 1 | No Gas | 2660161 | 0.00 |
| Ag | 107 | 1 | No Gas | 864873 | 0.00 |
| Cd | 111 | 1 | No Gas | 168840 | 0.00 |
| Sr | 88 | 1 | No Gas | 1828632 | 0.00 |
| Mo | 95 | 1 | No Gas | 346133 | 0.00 |
| Sn | 118 | 1 | No Gas | 532044 | 0.00 |
| Sb | 121 | 1 | No Gas | 770960 | 0.00 |
| Ba | 137 | 1 | No Gas | 309133 | 0.00 |
| Tl | 205 | 1 | No Gas | 1176736 | 0.00 |
| Tl | 203 | 1 | No Gas | 499334 | 0.00 |
| Pb | 208 | 1 | No Gas | 1715464 | 0.00 |
| U | 238 | 1 | No Gas | 1577036 | 0.00 |
| Ca | 43 | 2 | He | 16437 | 0.01 |
| Sb | 121 | 2 | He | 408613 | 0.00 |
| Cu | 63 | 1 | No Gas | 616694 | 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 | 360861 | 0.67 | 382126 | 94.44 | 70 | 120 | |
| Ge | 72 | 2 | He | 431538 | 0.88 | 434354 | 99.35 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1359649 | 1.22 | 1368913 | 99.32 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1551610 | 2.39 | 1552261 | 99.96 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1092506 | 2.65 | 1083438 | 100.84 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 200/1000/20K |
| Data File Name | 018CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T10:48:54-05:00 |
| Sample Type | CalStd |
| Level | 6 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 013CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 341772 | 0.00 |
| V | 51 | 2 | He | 663371 | 0.00 |
| Cr | 52 | 2 | He | 697270 | 0.00 |
| Fe | 56 | 2 | He | 60835224 | 0.00 |
| Se | 78 | 2 | He | 15201 | 0.00 |
| As | 75 | 2 | He | 135628 | 0.00 |
| Ca | 44 | 2 | He | 546590 | 0.00 |
| Na | 23 | 2 | He | 10129627 | 0.00 |
| Mg | 24 | 2 | He | 6000709 | 0.00 |
| K | 39 | 2 | He | 11477449 | 0.00 |
| Mn | 55 | 2 | He | 598668 | 0.00 |
| Co | 59 | 2 | He | 900779 | 0.00 |
| Ni | 60 | 2 | He | 217690 | 0.00 |
| Cu | 63 | 2 | He | 534684 | 0.00 |
| Zn | 66 | 2 | He | 129165 | 0.00 |
| Al | 27 | 2 | He | 51355 | 0.00 |
| B | 11 | 1 | No Gas | 762386 | 0.00 |
| Al | 27 | 1 | No Gas | 1496413 | 0.00 |
| Si | 28 | 1 | No Gas | 4741350 | 0.00 |
| Ag | 107 | 1 | No Gas | 1654332 | 0.00 |
| Cd | 111 | 1 | No Gas | 335252 | 0.00 |
| Sr | 88 | 1 | No Gas | 3550388 | 0.00 |
| Mo | 95 | 1 | No Gas | 692098 | 0.00 |
| Sn | 118 | 1 | No Gas | 1026191 | 0.00 |
| Sb | 121 | 1 | No Gas | 1537408 | 0.00 |
| Ba | 137 | 1 | No Gas | 614806 | 0.00 |
| Tl | 205 | 1 | No Gas | 2304287 | 0.00 |
| Tl | 203 | 1 | No Gas | 983252 | 0.00 |
| Pb | 208 | 1 | No Gas | 3409566 | 0.00 |
| U | 238 | 1 | No Gas | 3157389 | 0.00 |
| Ca | 43 | 2 | He | 32068 | 0.00 |
| Sb | 121 | 2 | He | 827434 | 0.00 |
| Cu | 63 | 1 | No Gas | 1171740 | 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 | 354731 | 1.43 | 382126 | 92.83 | 70 | 120 | |
| Ge | 72 | 2 | He | 420984 | 1.16 | 434354 | 96.92 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1340631 | 3.29 | 1368913 | 97.93 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1499976 | 1.99 | 1552261 | 96.63 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1081057 | 0.28 | 1083438 | 99.78 | 70 | 120 | |

# Initial Calibration Verification (ICV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICV |
| Data File Name | 020_ICV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T10:54:58-05:00 |
| Sample Type | ICV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 013CALB.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 | 100.446 | 1.904 | 544020 | 0.48 | 100 | 100.4 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 99.130 | 2.080 | 181345 | 0.49 | 100 | 99.1 | 90 | 110 | |
| V | 51 | 2 | He | 95.139 | 0.745 | 336519 | 0.87 | 100 | 95.1 | 90 | 110 | |
| Cr | 52 | 2 | He | 104.352 | 0.465 | 379204 | 0.63 | 100 | 104.4 | 90 | 110 | |
| Fe | 56 | 2 | He | 9905.100 | 1.023 | 30895360 | 1.24 | 10000 | 99.1 | 90 | 110 | |
| Se | 78 | 2 | He | 93.850 | 2.336 | 7431 | 2.33 | 100 | 93.8 | 90 | 110 | |
| As | 75 | 2 | He | 98.319 | 1.032 | 68243 | 1.12 | 100 | 98.3 | 90 | 110 | |
| Ca | 44 | 2 | He | 10036.240 | 0.602 | 281042 | 0.78 | 10000 | 100.4 | 90 | 110 | |
| Na | 23 | 2 | He | 10075.067 | 0.663 | 5250323 | 0.76 | 10000 | 100.8 | 90 | 110 | |
| Mg | 24 | 2 | He | 10278.687 | 0.461 | 3167380 | 0.75 | 10000 | 102.8 | 90 | 110 | |
| K | 39 | 2 | He | 10035.541 | 1.701 | 6036521 | 1.88 | 10000 | 100.4 | 90 | 110 | |
| Mn | 55 | 2 | He | 99.950 | 0.456 | 306662 | 0.72 | 100 | 100.0 | 90 | 110 | |
| Co | 59 | 2 | He | 97.919 | 0.464 | 450569 | 0.26 | 100 | 97.9 | 90 | 110 | |
| Ni | 60 | 2 | He | 106.449 | 0.129 | 118902 | 0.33 | 100 | 106.4 | 90 | 110 | |
| Cu | 63 | 2 | He | 98.029 | 0.693 | 268343 | 0.94 | 100 | 98.0 | 90 | 110 | |
| Zn | 66 | 2 | He | 100.819 | 1.048 | 66888 | 0.75 | 100 | 100.8 | 90 | 110 | |
| Al | 27 | 2 | He | 106.081 | 1.855 | 28339 | 2.05 | 100 | 106.1 | 90 | 110 | |
| B | 11 | 1 | No Gas | 503.409 | 2.105 | 477405 | 0.77 | 500 | 100.7 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 114.123 | 1.221 | 880310 | 0.92 | 100 | 114.1 | 90 | 110 | ICV Main CR1 Failed |
| Si | 28 | 1 | No Gas | 693.403 | 5.311 | 3446301 | 3.64 | 500 | 138.7 | 90 | 110 | ICV Main CR1 Failed |
| Ag | 107 | 1 | No Gas | 100.750 | 1.548 | 847397 | 0.62 | 100 | 100.8 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 97.019 | 1.240 | 164097 | 0.31 | 100 | 97.0 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 102.699 | 1.428 | 1848633 | 1.36 | 100 | 102.7 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 97.699 | 1.683 | 340891 | 1.39 | 100 | 97.7 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 100.717 | 1.188 | 524964 | 0.29 | 100 | 100.7 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 100.009 | 0.867 | 772877 | 0.54 | 100 | 100.0 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 99.199 | 1.711 | 307641 | 0.56 | 100 | 99.2 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 93.700 | 3.358 | 1079543 | 2.12 | 100 | 93.7 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 94.492 | 2.211 | 464084 | 1.31 | 100 | 94.5 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 97.221 | 1.139 | 1652630 | 0.93 | 100 | 97.2 | 90 | 110 | |
| U | 238 | 1 | No Gas | 97.935 | 1.578 | 1538949 | 0.39 | 100 | 97.9 | 90 | 110 | |
| Ca | 43 | 2 | He | 10117.755 | 2.759 | 16677 | 2.73 | 10000 | 101.2 | 90 | 110 | |
| Sb | 121 | 2 | He | 96.728 | 1.136 | 408060 | 1.29 | 100 | 96.7 | 90 | 110 | |
| Ti | 47 | 2 | He | 99.395 | 1.859 | 14291 | 2.00 | 100 | 99.4 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 102.981 | 0.876 | 612977 | 0.50 | 100 | 103.0 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 98.088 | 4.122 | 12902 | 4.50 | 100 | 98.1 | 90 | 110 | |

**QC ISTD Table**

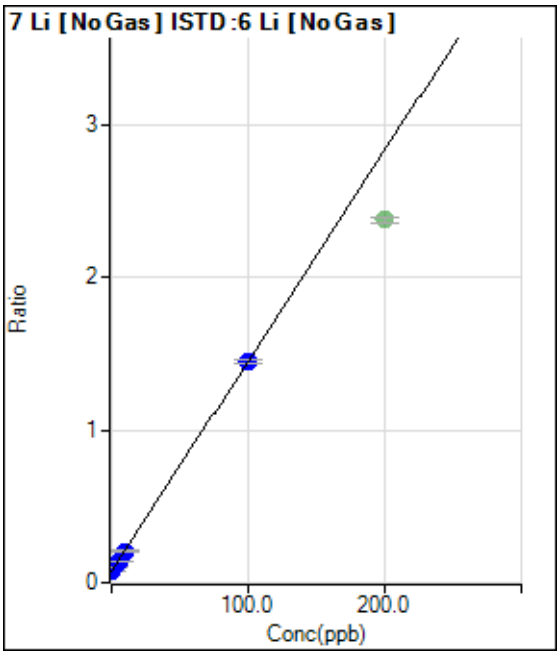
| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 373935 | 1.72 | 382126 | 97.86 | 70 | 120 | |
| Ge | 72 | 2 | He | 432316 | 0.29 | 434354 | 99.53 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1350043 | 1.24 | 1368913 | 98.62 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1521352 | 1.18 | 1552261 | 98.01 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1078653 | 1.24 | 1083438 | 99.56 | 70 | 120 | |

Calibration for 020_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062823A.b\
Analysis File: 062823A.batch.bin
DA Date-Time: 6/28/2023 1:33:06 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 013CALB.d | CAL BLK | 6/28/2023 10:39:38 AM |
| 2 | 014CALS.d | 2/10/200 | 6/28/2023 10:41:30 AM |
| 3 | 015CALS.d | 5/25/500 | 6/28/2023 10:43:22 AM |
| 4 | 016CALS.d | 10/50/100 | 6/28/2023 10:45:14 AM |
| 5 | 017CALS.d | 100/500/10K | 6/28/2023 10:47:06 AM |
| 6 | 018CALS.d | 200/1000/20K | 6/28/2023 10:48:54 AM |

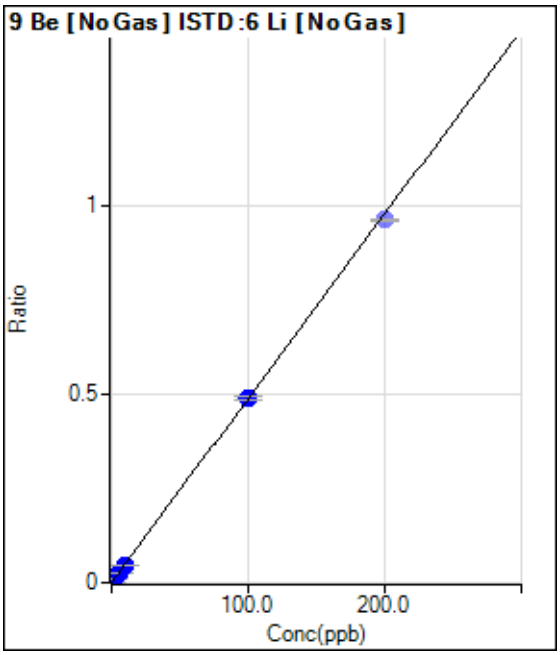
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 27566.99 | 0.0721 | P | 0.9 |
| 2 | ☐ | 2.000 | 2.118 | 38378.78 | 0.1013 | P | 1.1 |
| 3 | ☐ | 5.000 | 4.970 | 53148.28 | 0.1406 | P | 1.2 |
| 4 | ☐ | 10.000 | 9.759 | 78827.59 | 0.2065 | P | 1.4 |
| 5 | ☐ | 100.000 | 100.023 | 522975.20 | 1.4493 | P | 1.2 |
| 6 | ☑ | 200.000 | | 842176.91 | 2.3743 | A | 1.7 |

y = 0.0138 * x + 0.0721
R = 1.0000
DL = 0.1439
BEC = 5.24

Weight: <None>
Min Conc: <None>

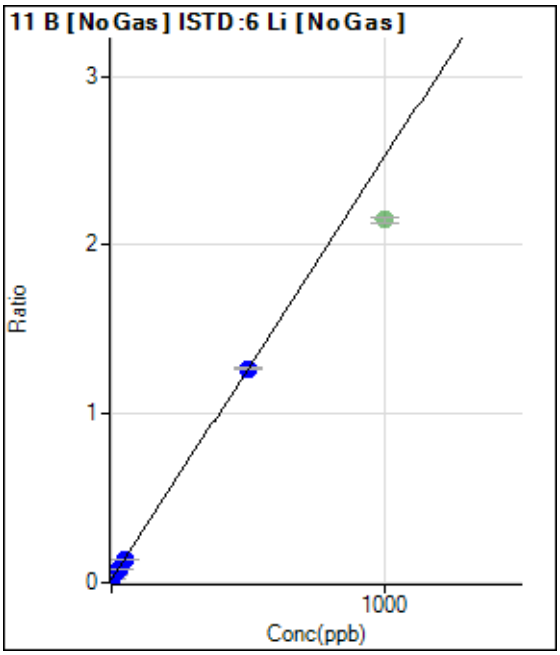



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 91.67 | 0.0002 | P | 10.7 |
| 2 | ☐ | 2.000 | 1.874 | 3563.81 | 0.0094 | P | 2.5 |
| 3 | ☐ | 5.000 | 4.814 | 8992.92 | 0.0238 | P | 1.3 |
| 4 | ☐ | 10.000 | 9.451 | 17739.63 | 0.0465 | P | 1.0 |
| 5 | ☐ | 100.000 | 100.067 | 176686.94 | 0.4897 | P | 1.9 |
| 6 | ☑ | 200.000 | | 341772.42 | 0.9635 | P | 0.6 |

y = 0.0049 * x + 2.3978E-004
R = 1.0000
DL = 0.01579
BEC = 0.04902

Weight: <None>
Min Conc: <None>

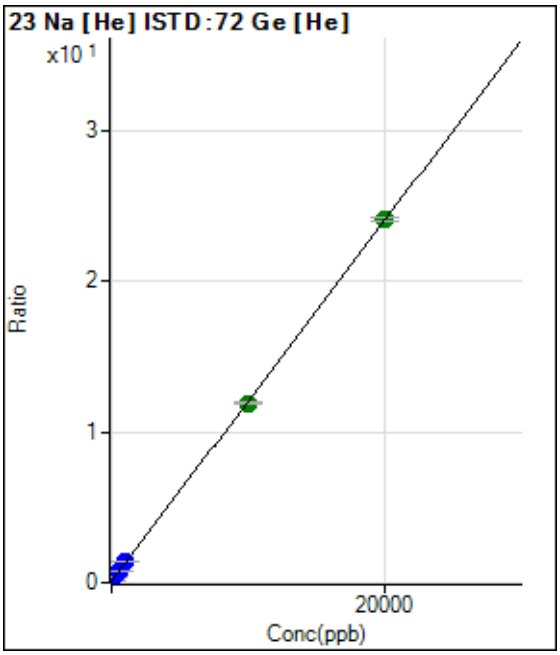
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6668.31 | 0.0174 | P | 3.4 |
| 2 | ☐ | 10.000 | 9.816 | 15914.08 | 0.0420 | P | 3.0 |
| 3 | ☐ | 25.000 | 24.645 | 29911.83 | 0.0791 | P | 0.5 |
| 4 | ☐ | 50.000 | 47.297 | 51823.53 | 0.1358 | P | 3.1 |
| 5 | ☐ | 500.000 | 500.292 | 457991.21 | 1.2692 | P | 0.6 |
| 6 | ☑ | 1000.000 | | 762386.24 | 2.1491 | A | 1.7 |

y = 0.0025 * x + 0.0174
R = 1.0000
DL = 0.7212
BEC = 6.974

Weight: <None>
Min Conc: <None>

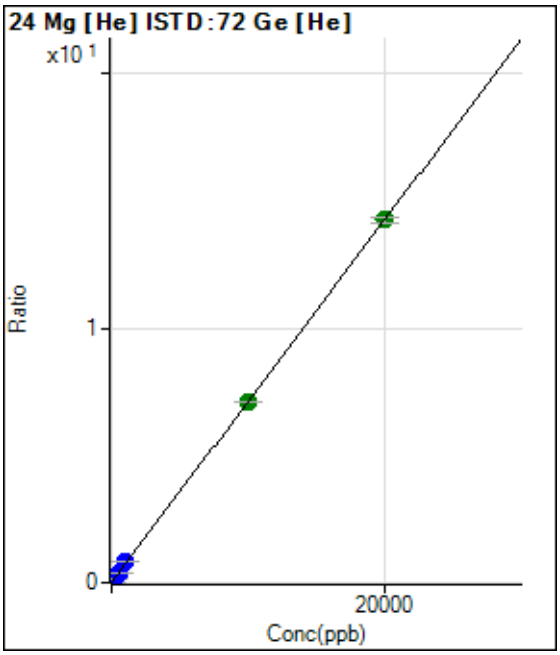



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 46591.26 | 0.1073 | P | 2.1 |
| 2 | ☐ | 200.000 | 220.066 | 161623.86 | 0.3702 | P | 1.4 |
| 3 | ☐ | 500.000 | 545.332 | 330572.32 | 0.7588 | P | 1.1 |
| 4 | ☐ | 1000.000 | 1082.094 | 609062.32 | 1.4001 | P | 0.9 |
| 5 | ☐ | 10000.000 | 9888.177 | 5144773.25 | 11.9213 | A | 0.9 |
| 6 | ☐ | 20000.000 | 20050.473 | 10129626.72 | 24.0629 | A | 1.0 |

y = 0.0012 * x + 0.1073
R = 1.0000
DL = 5.682
BEC = 89.79

Weight: <None>
Min Conc: <None>

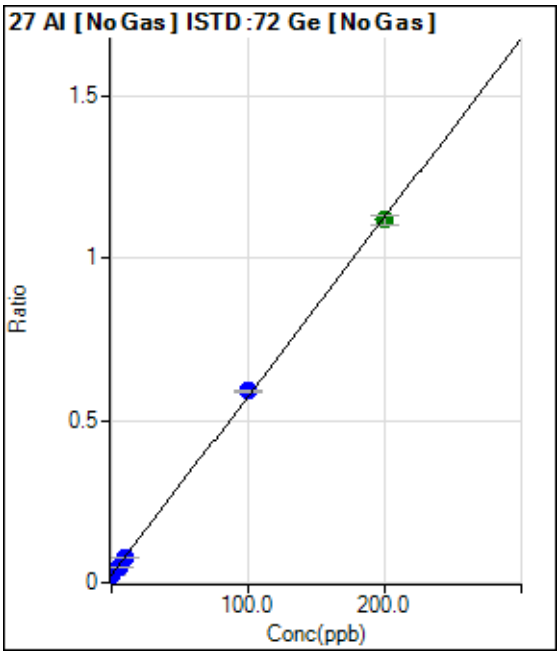
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 4220.72 | 0.0097 | P | 4.6 |
| 2 | ☐ | 200.000 | 225.584 | 74350.85 | 0.1703 | P | 0.8 |
| 3 | ☐ | 500.000 | 561.445 | 178350.08 | 0.4094 | P | 0.6 |
| 4 | ☐ | 1000.000 | 1122.476 | 351812.23 | 0.8087 | P | 0.6 |
| 5 | ☐ | 10000.000 | 9960.283 | 3063973.81 | 7.0998 | A | 0.8 |
| 6 | ☐ | 20000.000 | 20011.943 | 6000709.49 | 14.2550 | A | 1.5 |

y = 7.1184E-004 * x + 0.0097
R = 1.0000
DL = 1.896
BEC = 13.66

Weight: <None>
Min Conc: <None>

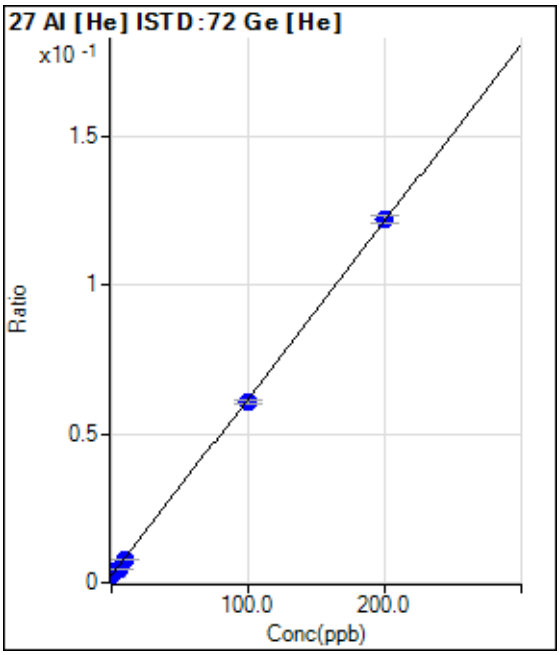



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 32611.98 | 0.0238 | P | 1.7 |
| 2 | ☐ | 2.000 | 1.766 | 46250.66 | 0.0335 | P | 3.0 |
| 3 | ☐ | 5.000 | 4.499 | 65979.65 | 0.0486 | P | 1.4 |
| 4 | ☐ | 10.000 | 9.610 | 104745.60 | 0.0767 | P | 0.7 |
| 5 | ☐ | 100.000 | 102.976 | 803151.86 | 0.5907 | P | 0.7 |
| 6 | ☐ | 200.000 | 198.546 | 1496413.10 | 1.1169 | A | 2.8 |

y = 0.0055 * x + 0.0238
R = 0.9998
DL = 0.2161
BEC = 4.328

Weight: <None>
Min Conc: <None>

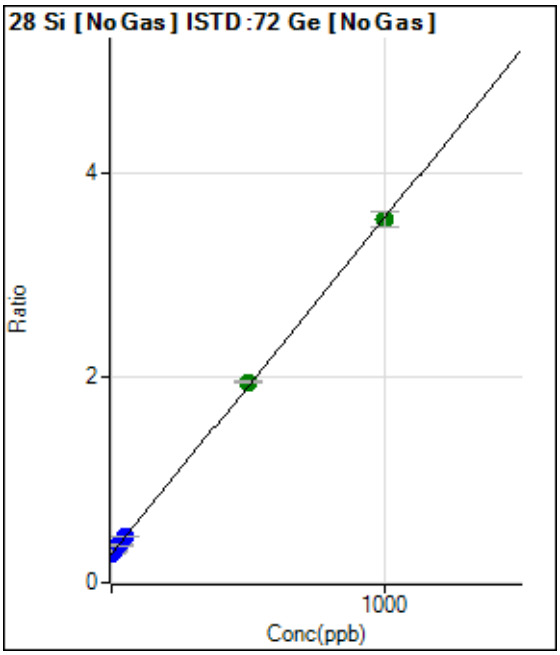
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1026.72 | 0.0024 | P | 10.1 |
| 2 | ☐ | 2.000 | 2.783 | 1756.86 | 0.0040 | P | 9.4 |
| 3 | ☐ | 5.000 | 3.802 | 2016.85 | 0.0046 | P | 3.7 |
| 4 | ☐ | 10.000 | 9.222 | 3417.16 | 0.0079 | P | 5.5 |
| 5 | ☐ | 100.000 | 98.390 | 26311.76 | 0.0610 | P | 1.9 |
| 6 | ☐ | 200.000 | 200.866 | 51355.01 | 0.1220 | P | 2.3 |

y = 5.9563E-004 * x + 0.0024
R = 0.9999
DL = 1.201
BEC = 3.971

Weight: <None>
Min Conc: <None>

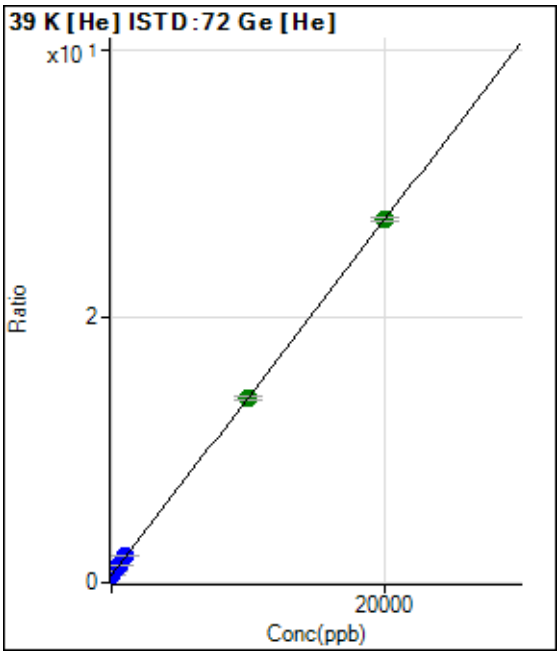



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 383503.15 | 0.2802 | P | 1.2 |
| 2 | ☐ | 10.000 | 8.377 | 424099.47 | 0.3076 | P | 2.0 |
| 3 | ☐ | 25.000 | 26.919 | 500219.34 | 0.3684 | P | 1.9 |
| 4 | ☐ | 50.000 | 52.444 | 617166.20 | 0.4521 | P | 2.1 |
| 5 | ☐ | 500.000 | 511.317 | 2660161.00 | 1.9566 | A | 0.9 |
| 6 | ☐ | 1000.000 | 994.188 | 4741350.03 | 3.5398 | A | 4.2 |

y = 0.0033 * x + 0.2802
R = 0.9999
DL = 2.974
BEC = 85.45

Weight: <None>
Min Conc: <None>

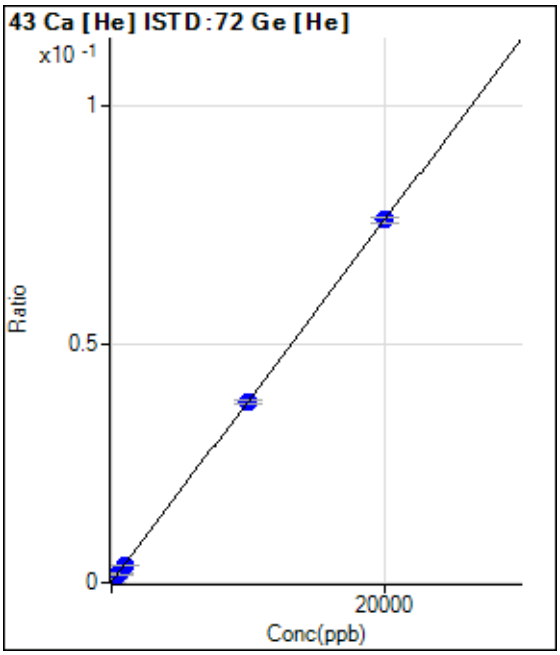
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 243635.66 | 0.5609 | P | 0.7 |
| 2 | ☐ | 200.000 | 211.110 | 367961.74 | 0.8429 | P | 1.8 |
| 3 | ☐ | 500.000 | 531.175 | 553333.72 | 1.2703 | P | 1.5 |
| 4 | ☐ | 1000.000 | 1062.978 | 861502.07 | 1.9805 | P | 0.9 |
| 5 | ☐ | 10000.000 | 10001.164 | 6006354.28 | 13.9170 | A | 2.3 |
| 6 | ☐ | 20000.000 | 19995.379 | 11477449.41 | 27.2637 | A | 1.1 |

y = 0.0013 * x + 0.5609
R = 1.0000
DL = 9.044
BEC = 420

Weight: <None>
Min Conc: <None>

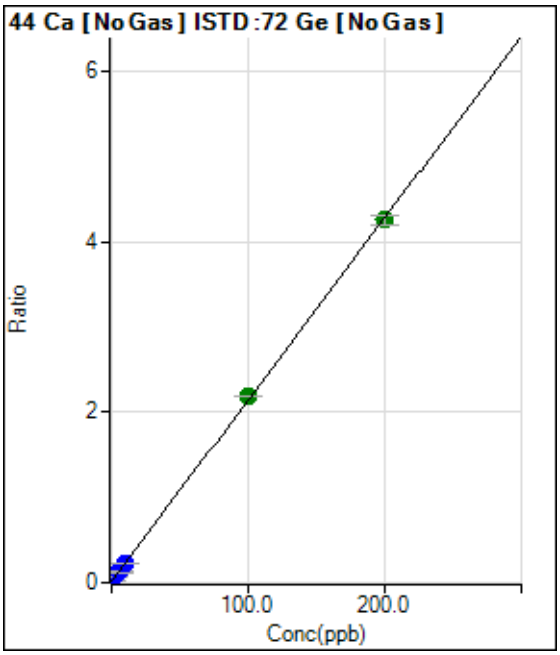



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 50.00 | 0.0001 | P | 1.0 |
| 2 | ☐ | 200.000 | 176.625 | 343.35 | 0.0008 | P | 17.8 |
| 3 | ☐ | 500.000 | 468.424 | 826.71 | 0.0019 | P | 9.3 |
| 4 | ☐ | 1000.000 | 925.294 | 1580.12 | 0.0036 | P | 3.4 |
| 5 | ☐ | 10000.000 | 9989.334 | 16436.71 | 0.0381 | P | 2.1 |
| 6 | ☐ | 20000.000 | 20010.091 | 32067.68 | 0.0762 | P | 1.4 |

y = 3.8013E-006 * x + 1.1512E-004
R = 1.0000
DL = 0.9308
BEC = 30.28

Weight: <None>
Min Conc: <None>

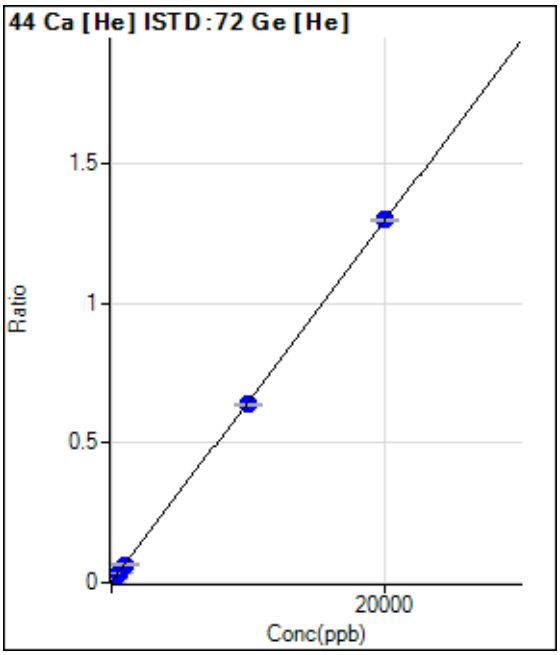
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 17454.58 | 0.0128 | P | 2.4 |
| 2 | ☐ | 2.000 | 2.131 | 80118.92 | 0.0581 | P | 3.5 |
| 3 | ☐ | 5.000 | 5.271 | 169709.19 | 0.1250 | P | 2.5 |
| 4 | ☐ | 10.000 | 10.445 | 321105.05 | 0.2352 | P | 1.1 |
| 5 | ☐ | 100.000 | 101.738 | 2963485.37 | 2.1796 | A | 0.3 |
| 6 | ☐ | 200.000 | 199.101 | 5699078.87 | 4.2533 | A | 2.4 |

y = 0.0213 * x + 0.0128
R = 0.9999
DL = 0.04351
BEC = 0.5988

Weight: <None>
Min Conc: <None>

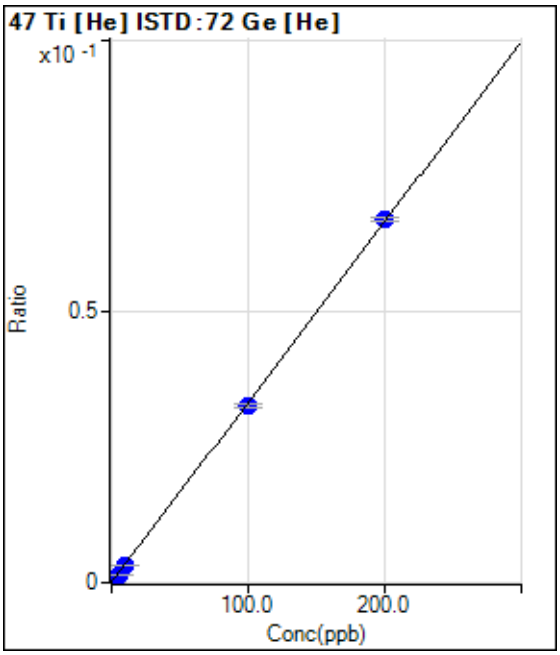



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 706.70 | 0.0016 | P | 8.9 |
| 2 | ☐ | 200.000 | 199.288 | 6331.59 | 0.0145 | P | 3.6 |
| 3 | ☐ | 500.000 | 496.838 | 14694.79 | 0.0337 | P | 3.8 |
| 4 | ☐ | 1000.000 | 978.566 | 28205.95 | 0.0649 | P | 3.2 |
| 5 | ☐ | 10000.000 | 9863.498 | 275729.40 | 0.6389 | P | 0.8 |
| 6 | ☐ | 20000.000 | 20069.409 | 546590.45 | 1.2983 | P | 0.8 |

y = 6.4611E-005 * x + 0.0016
R = 1.0000
DL = 6.722
BEC = 25.19

Weight: <None>
Min Conc: <None>

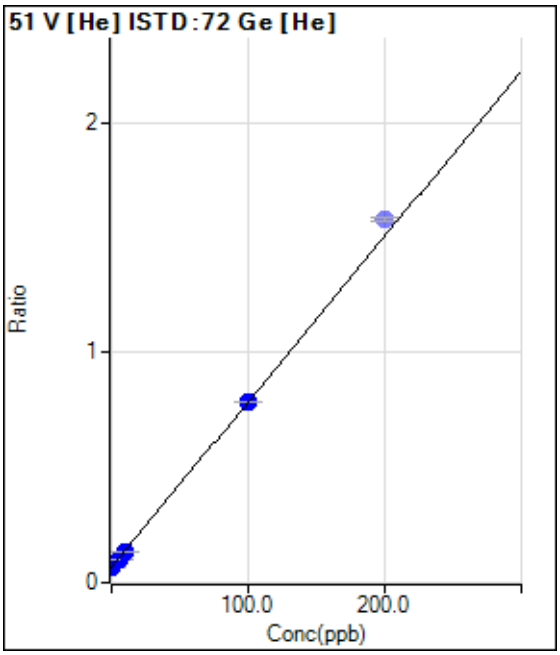
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 26.67 | 0.0001 | P | 57.0 |
| 2 | ☐ | 2.000 | 1.654 | 266.68 | 0.0006 | P | 12.3 |
| 3 | ☐ | 5.000 | 4.147 | 626.69 | 0.0014 | P | 2.8 |
| 4 | ☐ | 10.000 | 9.188 | 1353.42 | 0.0031 | P | 2.5 |
| 5 | ☐ | 100.000 | 98.002 | 14064.07 | 0.0326 | P | 2.0 |
| 6 | ☐ | 200.000 | 201.064 | 28125.78 | 0.0668 | P | 1.2 |

y = 3.3196E-004 * x + 6.1227E-005
R = 0.9999
DL = 0.3156
BEC = 0.1844

Weight: <None>
Min Conc: <None>

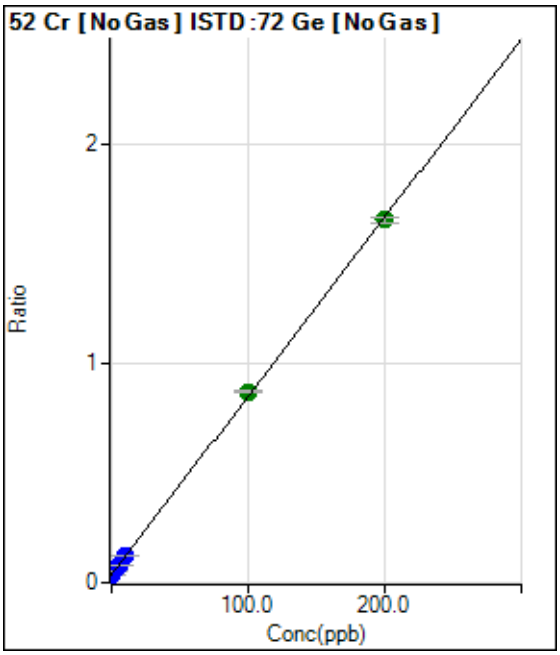



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 29625.28 | 0.0682 | P | 2.1 |
| 2 | ☐ | 2.000 | 2.138 | 36481.75 | 0.0836 | P | 0.8 |
| 3 | ☐ | 5.000 | 4.905 | 45052.64 | 0.1034 | P | 1.5 |
| 4 | ☐ | 10.000 | 9.020 | 57831.32 | 0.1329 | P | 1.3 |
| 5 | ☐ | 100.000 | 100.100 | 339463.39 | 0.7866 | P | 0.6 |
| 6 | ☑ | 200.000 | | 663371.24 | 1.5758 | P | 0.9 |

y = 0.0072 * x + 0.0682
R = 0.9999
DL = 0.6034
BEC = 9.505

Weight: <None>
Min Conc: <None>

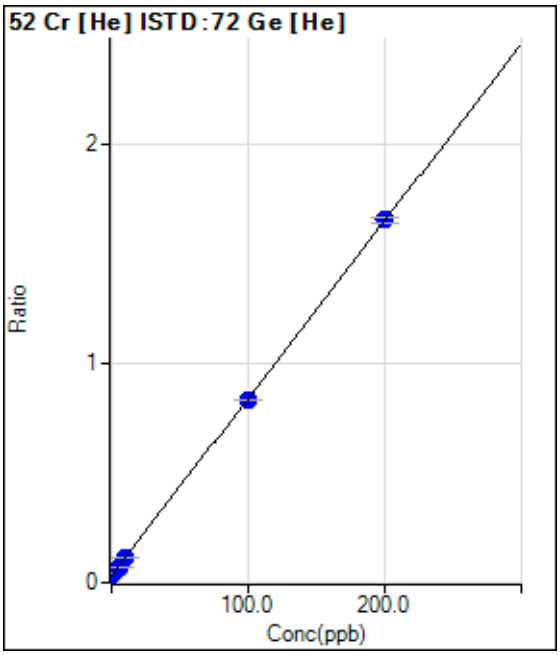
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 50677.31 | 0.0370 | P | 2.7 |
| 2 | ☐ | 2.000 | 2.095 | 74572.38 | 0.0541 | P | 1.2 |
| 3 | ☐ | 5.000 | 5.364 | 109578.38 | 0.0807 | P | 1.8 |
| 4 | ☐ | 10.000 | 10.418 | 166374.33 | 0.1219 | P | 0.8 |
| 5 | ☐ | 100.000 | 102.508 | 1185350.45 | 0.8718 | A | 0.8 |
| 6 | ☐ | 200.000 | 198.715 | 2218290.07 | 1.6553 | A | 1.8 |

y = 0.0081 * x + 0.0370
R = 0.9999
DL = 0.3639
BEC = 4.547

Weight: <None>
Min Conc: <None>

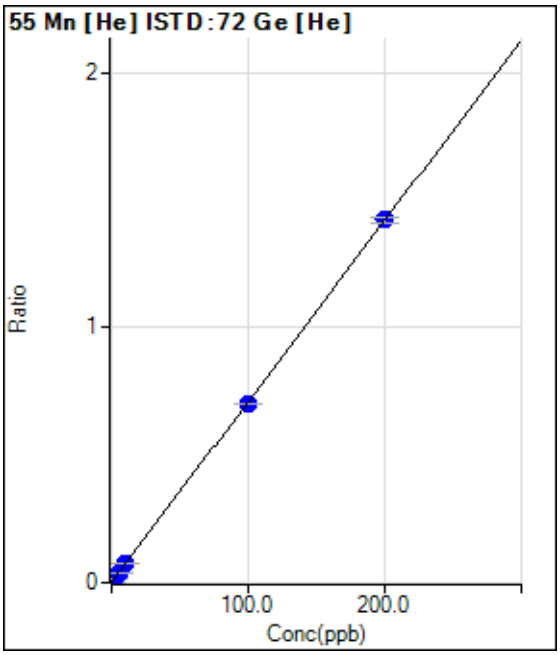



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 14417.85 | 0.0332 | P | 2.0 |
| 2 | ☐ | 2.000 | 1.712 | 20538.98 | 0.0470 | P | 2.2 |
| 3 | ☐ | 5.000 | 4.839 | 31503.34 | 0.0723 | P | 3.1 |
| 4 | ☐ | 10.000 | 9.812 | 48947.61 | 0.1126 | P | 3.7 |
| 5 | ☐ | 100.000 | 98.625 | 358532.86 | 0.8308 | P | 0.2 |
| 6 | ☐ | 200.000 | 200.704 | 697270.02 | 1.6564 | P | 1.8 |

y = 0.0081 * x + 0.0332
R = 1.0000
DL = 0.2409
BEC = 4.105

Weight: <None>
Min Conc: <None>

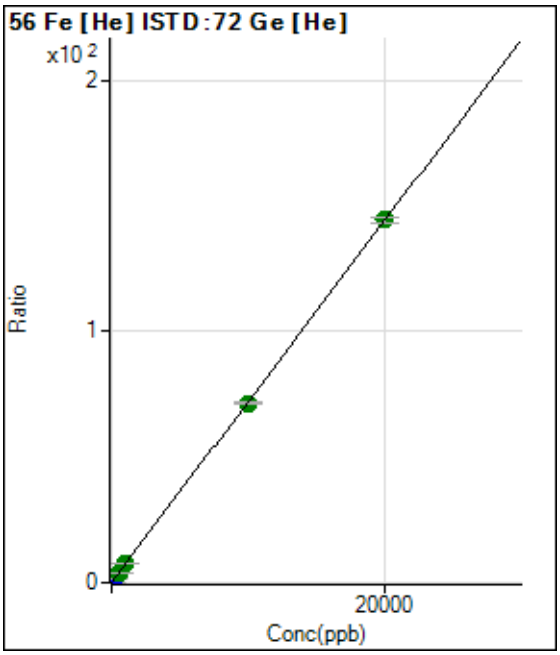
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 586.69 | 0.0013 | P | 16.8 |
| 2 | ☐ | 2.000 | 1.956 | 6638.38 | 0.0152 | P | 2.9 |
| 3 | ☐ | 5.000 | 5.023 | 16089.70 | 0.0369 | P | 0.5 |
| 4 | ☐ | 10.000 | 10.035 | 31509.85 | 0.0724 | P | 0.6 |
| 5 | ☐ | 100.000 | 98.839 | 302702.48 | 0.7015 | P | 0.6 |
| 6 | ☐ | 200.000 | 200.579 | 598668.18 | 1.4221 | P | 1.3 |

y = 0.0071 * x + 0.0013
R = 1.0000
DL = 0.09596
BEC = 0.1906

Weight: <None>
Min Conc: <None>

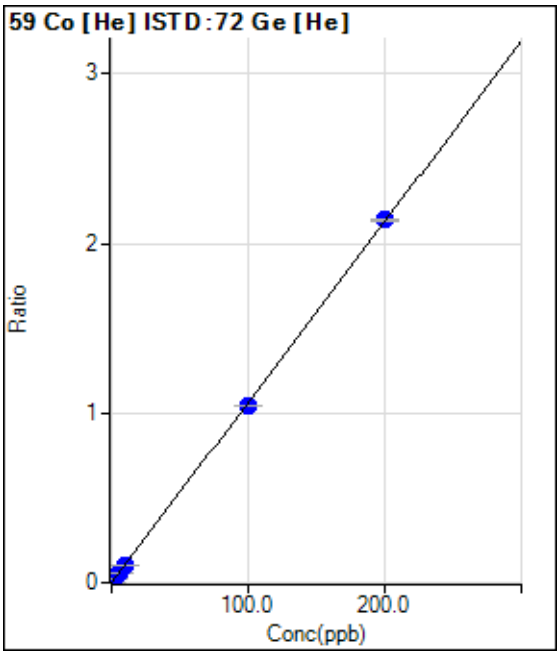



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 45984.42 | 0.1059 | P | 2.6 |
| 2 | ☐ | 200.000 | 209.354 | 704707.44 | 1.6141 | P | 0.8 |
| 3 | ☐ | 500.000 | 510.986 | 1649457.89 | 3.7871 | A | 2.4 |
| 4 | ☐ | 1000.000 | 1003.690 | 3191537.87 | 7.3366 | A | 0.6 |
| 5 | ☐ | 10000.000 | 9905.044 | 30838657.04 | 71.4634 | A | 0.7 |
| 6 | ☐ | 20000.000 | 20046.925 | 60835224.09 | 144.5272 | A | 1.9 |

y = 0.0072 * x + 0.1059
R = 1.0000
DL = 1.134
BEC = 14.7

Weight: <None>
Min Conc: <None>

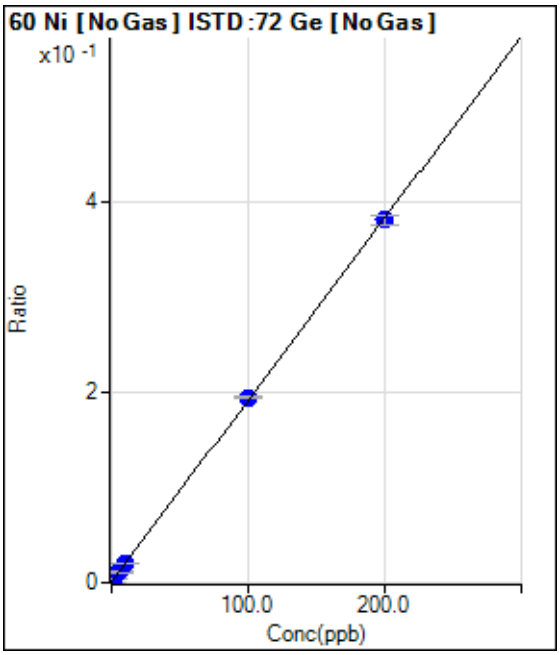
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 53.33 | 0.0001 | P | 28.8 |
| 2 | ☐ | 2.000 | 2.054 | 9596.87 | 0.0220 | P | 2.7 |
| 3 | ☐ | 5.000 | 5.069 | 23554.05 | 0.0541 | P | 3.7 |
| 4 | ☐ | 10.000 | 9.882 | 45800.60 | 0.1053 | P | 1.4 |
| 5 | ☐ | 100.000 | 97.923 | 449795.70 | 1.0423 | P | 0.6 |
| 6 | ☐ | 200.000 | 201.042 | 900779.41 | 2.1397 | P | 0.4 |

y = 0.0106 * x + 1.2286E-004
R = 0.9999
DL = 0.009968
BEC = 0.01154

Weight: <None>
Min Conc: <None>

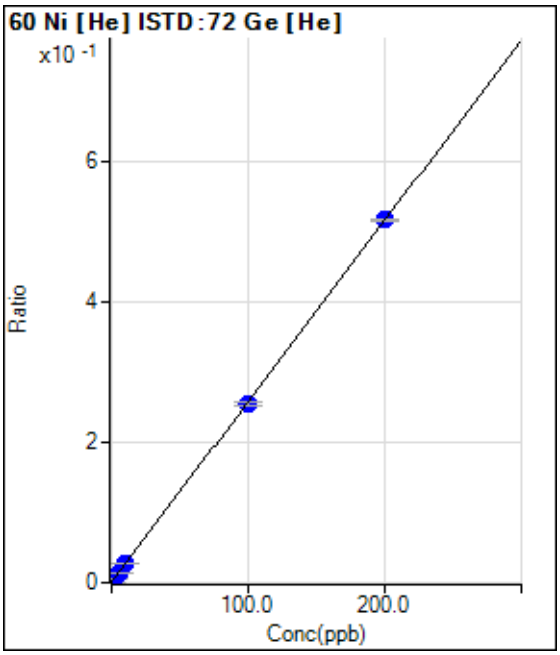



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1123.40 | 0.0008 | P | 7.9 |
| 2 | ☐ | 2.000 | 2.073 | 6578.36 | 0.0048 | P | 5.5 |
| 3 | ☐ | 5.000 | 5.404 | 15108.65 | 0.0111 | P | 5.3 |
| 4 | ☐ | 10.000 | 10.268 | 27862.04 | 0.0204 | P | 3.4 |
| 5 | ☐ | 100.000 | 101.563 | 264514.92 | 0.1946 | P | 1.2 |
| 6 | ☐ | 200.000 | 199.194 | 510197.21 | 0.3808 | P | 2.8 |

y = 0.0019 * x + 8.2118E-004
R = 1.0000
DL = 0.1026
BEC = 0.4305

Weight: <None>
Min Conc: <None>

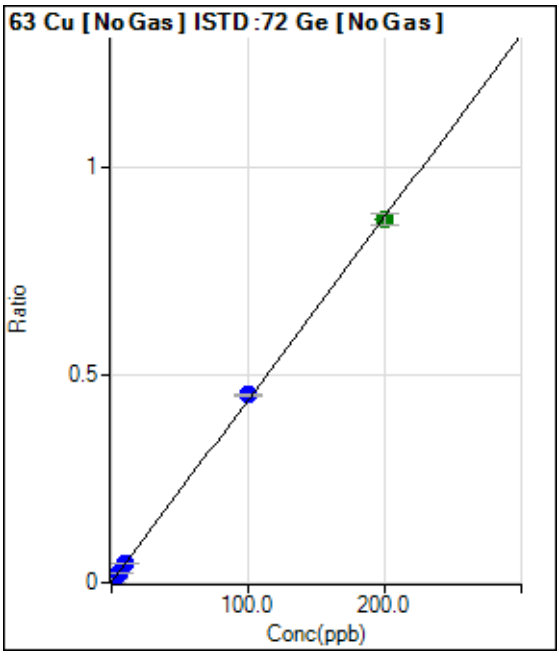
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 430.01 | 0.0010 | P | 19.5 |
| 2 | ☐ | 2.000 | 2.089 | 2780.35 | 0.0064 | P | 4.2 |
| 3 | ☐ | 5.000 | 4.957 | 5984.75 | 0.0138 | P | 8.3 |
| 4 | ☐ | 10.000 | 10.165 | 11815.33 | 0.0272 | P | 0.4 |
| 5 | ☐ | 100.000 | 99.015 | 110438.46 | 0.2559 | P | 2.3 |
| 6 | ☐ | 200.000 | 200.484 | 217689.80 | 0.5171 | P | 0.6 |

y = 0.0026 * x + 9.8962E-004
R = 1.0000
DL = 0.2245
BEC = 0.3844

Weight: <None>
Min Conc: <None>

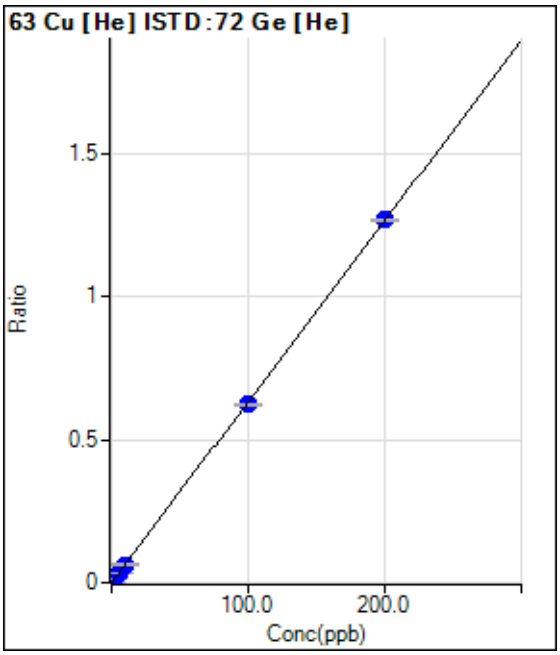



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1090.06 | 0.0008 | P | 14.1 |
| 2 | ☐ | 2.000 | 2.151 | 14147.59 | 0.0103 | P | 2.2 |
| 3 | ☐ | 5.000 | 5.311 | 32819.90 | 0.0242 | P | 2.1 |
| 4 | ☐ | 10.000 | 10.435 | 63786.06 | 0.0467 | P | 0.7 |
| 5 | ☐ | 100.000 | 102.875 | 616693.68 | 0.4536 | P | 1.1 |
| 6 | ☐ | 200.000 | 198.531 | 1171739.83 | 0.8746 | A | 3.2 |

y = 0.0044 * x + 7.9676E-004
R = 0.9999
DL = 0.07651
BEC = 0.181

Weight: <None>
Min Conc: <None>

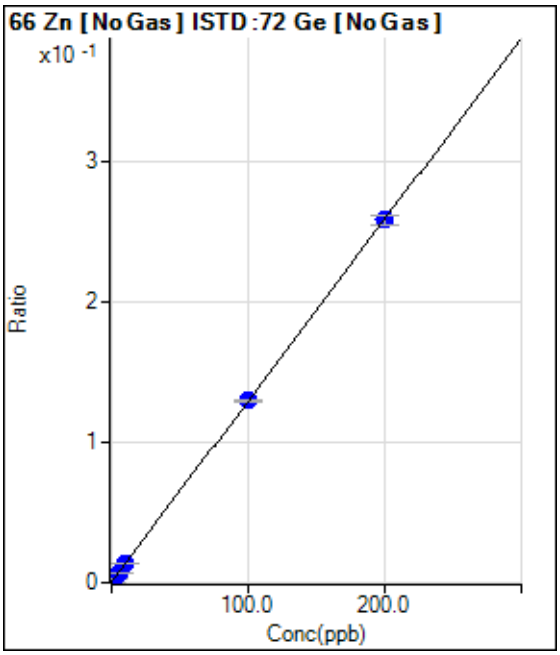
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 226.67 | 0.0005 | P | 45.1 |
| 2 | ☐ | 2.000 | 2.080 | 5971.41 | 0.0137 | P | 5.0 |
| 3 | ☐ | 5.000 | 5.012 | 14030.77 | 0.0322 | P | 5.6 |
| 4 | ☐ | 10.000 | 9.973 | 27671.81 | 0.0636 | P | 1.9 |
| 5 | ☐ | 100.000 | 98.633 | 269514.39 | 0.6245 | P | 1.3 |
| 6 | ☐ | 200.000 | 200.684 | 534684.00 | 1.2701 | P | 0.8 |

y = 0.0063 * x + 5.2130E-004
R = 1.0000
DL = 0.1115
BEC = 0.0824

Weight: <None>
Min Conc: <None>

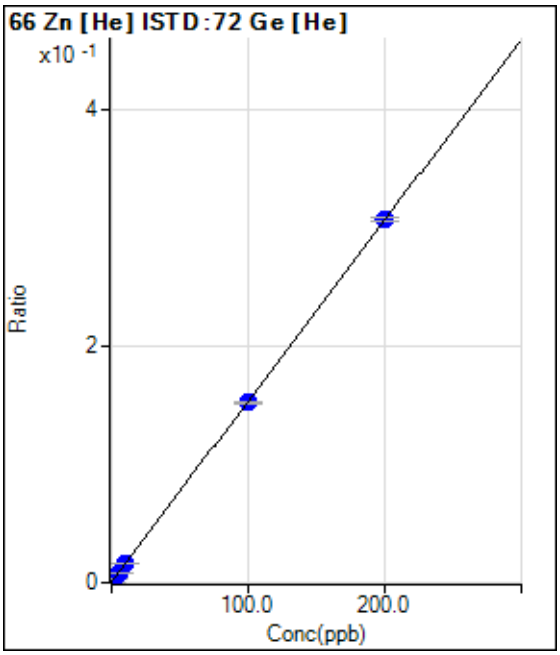



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 656.69 | 0.0005 | P | 5.0 |
| 2 | ☐ | 2.000 | 2.101 | 4404.13 | 0.0032 | P | 4.1 |
| 3 | ☐ | 5.000 | 5.194 | 9763.68 | 0.0072 | P | 2.7 |
| 4 | ☐ | 10.000 | 10.048 | 18379.41 | 0.0135 | P | 3.4 |
| 5 | ☐ | 100.000 | 100.308 | 176877.90 | 0.1301 | P | 1.1 |
| 6 | ☐ | 200.000 | 199.838 | 346655.59 | 0.2587 | P | 2.7 |

y = 0.0013 * x + 4.7955E-004
R = 1.0000
DL = 0.05602
BEC = 0.3711

Weight: <None>
Min Conc: <None>

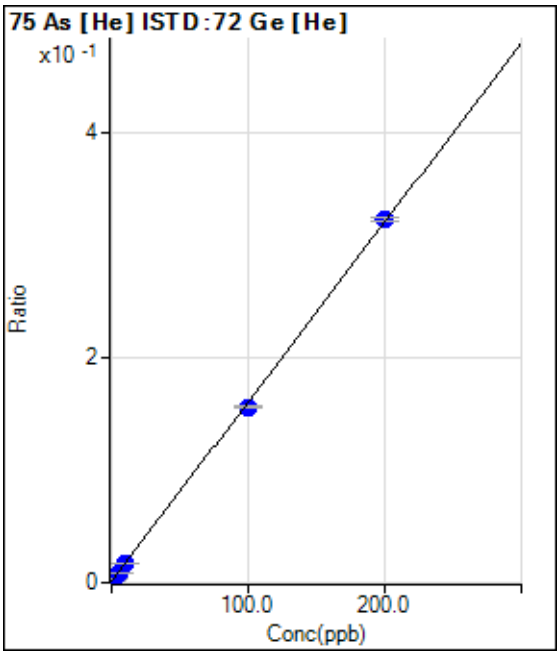
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 266.67 | 0.0006 | P | 38.6 |
| 2 | ☐ | 2.000 | 1.811 | 1476.77 | 0.0034 | P | 16.0 |
| 3 | ☐ | 5.000 | 4.769 | 3443.84 | 0.0079 | P | 0.7 |
| 4 | ☐ | 10.000 | 9.846 | 6815.18 | 0.0157 | P | 2.0 |
| 5 | ☐ | 100.000 | 99.398 | 65829.96 | 0.1526 | P | 1.0 |
| 6 | ☐ | 200.000 | 200.316 | 129164.69 | 0.3068 | P | 1.2 |

y = 0.0015 * x + 6.1553E-004
R = 1.0000
DL = 0.4664
BEC = 0.4027

Weight: <None>
Min Conc: <None>

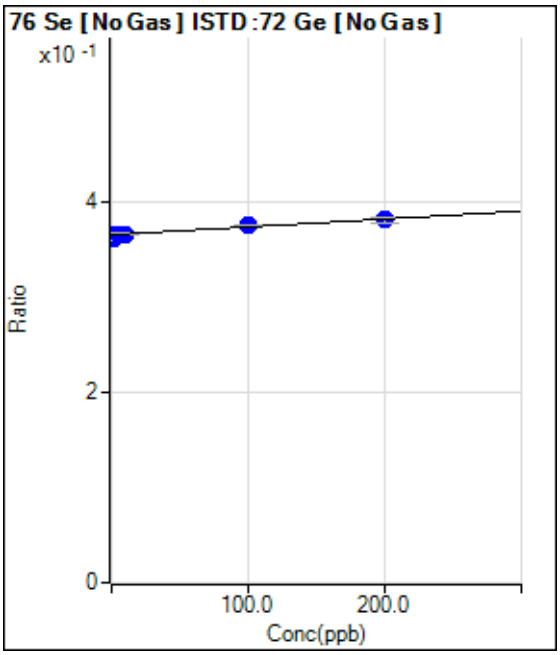



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 487.79 | 0.0011 | P | 3.1 |
| 2 | ☐ | 2.000 | 1.807 | 1747.90 | 0.0040 | P | 0.9 |
| 3 | ☐ | 5.000 | 4.804 | 3826.12 | 0.0088 | P | 2.8 |
| 4 | ☐ | 10.000 | 9.732 | 7238.64 | 0.0166 | P | 2.2 |
| 5 | ☐ | 100.000 | 97.229 | 67370.34 | 0.1561 | P | 0.4 |
| 6 | ☐ | 200.000 | 201.406 | 135628.21 | 0.3222 | P | 1.2 |

y = 0.0016 * x + 0.0011
R = 0.9999
DL = 0.06571
BEC = 0.7046

Weight: <None>
Min Conc: <None>

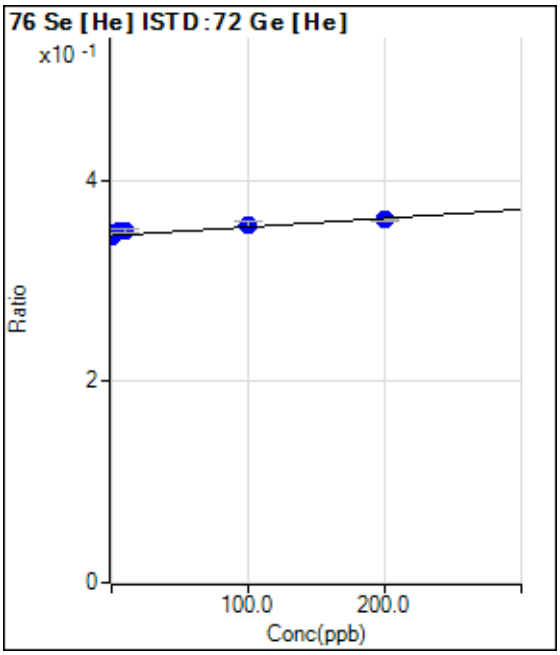
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 500798.13 | 0.3658 | P | 0.6 |
| 2 | ☐ | 2.000 | -41.179 | 499646.87 | 0.3624 | P | 1.4 |
| 3 | ☐ | 5.000 | 1.637 | 496983.51 | 0.3660 | P | 0.3 |
| 4 | ☐ | 10.000 | 8.383 | 500371.20 | 0.3665 | P | 0.4 |
| 5 | ☐ | 100.000 | 125.709 | 511645.08 | 0.3763 | P | 0.2 |
| 6 | ☐ | 200.000 | 187.742 | 511200.25 | 0.3815 | P | 1.9 |

y = 8.3267E-005 * x + 0.3658
R = 0.9693
DL = 74.54
BEC = 4394

Weight: <None>
Min Conc: <None>

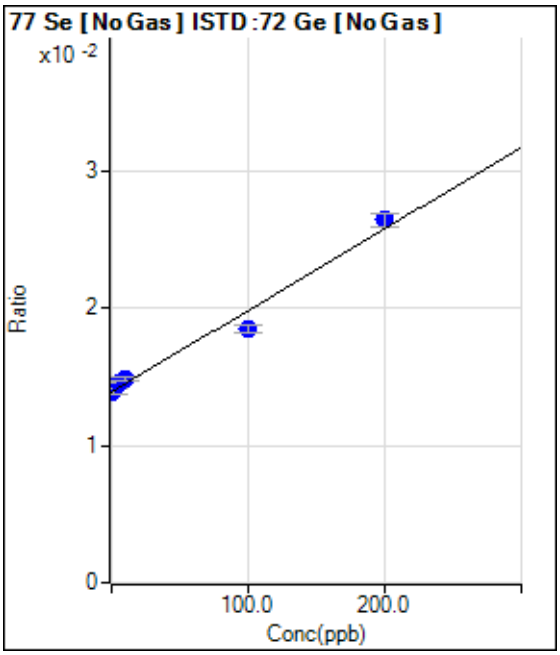



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 149977.15 | 0.3453 | P | 1.3 |
| 2 | ☐ | 2.000 | 28.737 | 151867.13 | 0.3478 | P | 1.2 |
| 3 | ☐ | 5.000 | 54.264 | 152470.54 | 0.3500 | P | 1.7 |
| 4 | ☐ | 10.000 | 52.640 | 152198.10 | 0.3499 | P | 1.2 |
| 5 | ☐ | 100.000 | 131.123 | 153954.59 | 0.3567 | P | 1.6 |
| 6 | ☐ | 200.000 | 180.807 | 151989.18 | 0.3610 | P | 0.8 |

y = 8.7029E-005 * x + 0.3453
R = 0.9549
DL = 150.5
BEC = 3968

Weight: <None>
Min Conc: <None>

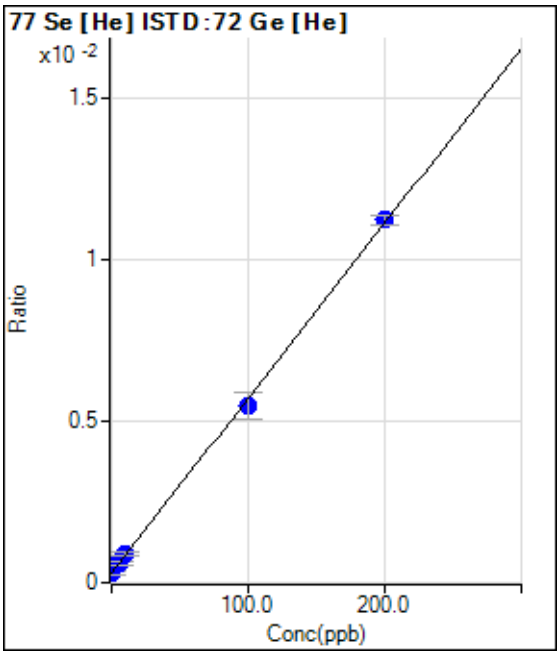
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 19063.86 | 0.0139 | P | 3.2 |
| 2 | ☐ | 2.000 | 0.895 | 19270.62 | 0.0140 | P | 3.3 |
| 3 | ☐ | 5.000 | 12.311 | 19904.99 | 0.0147 | P | 0.7 |
| 4 | ☐ | 10.000 | 15.330 | 20258.82 | 0.0148 | P | 1.8 |
| 5 | ☐ | 100.000 | 77.428 | 25193.90 | 0.0185 | P | 2.6 |
| 6 | ☐ | 200.000 | 210.848 | 35467.00 | 0.0265 | P | 3.5 |

y = 5.9487E-005 * x + 0.0139
R = 0.9895
DL = 22.25
BEC = 234.1

Weight: <None>
Min Conc: <None>

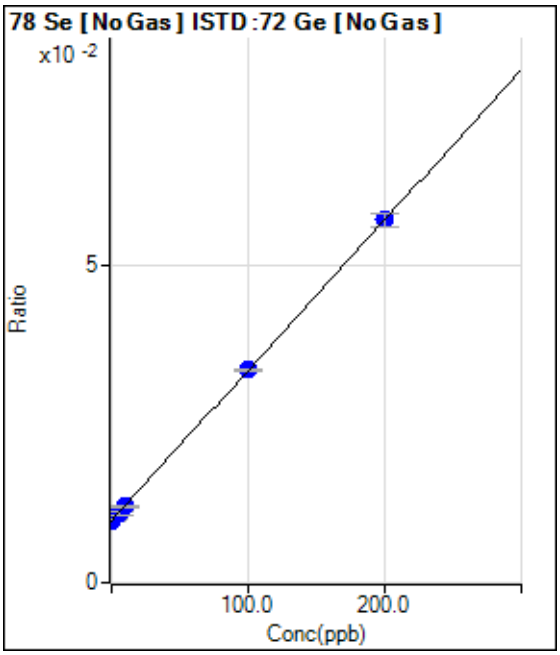



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 130.00 | 0.0003 | P | 22.6 |
| 2 | ☐ | 2.000 | 4.065 | 226.68 | 0.0005 | P | 9.7 |
| 3 | ☐ | 5.000 | 5.497 | 260.01 | 0.0006 | P | 18.0 |
| 4 | ☐ | 10.000 | 10.877 | 386.68 | 0.0009 | P | 13.7 |
| 5 | ☐ | 100.000 | 95.880 | 2370.25 | 0.0055 | P | 15.0 |
| 6 | ☐ | 200.000 | 201.983 | 4734.24 | 0.0112 | P | 2.8 |

y = 5.4184E-005 * x + 2.9911E-004
R = 0.9996
DL = 3.735
BEC = 5.52

Weight: <None>
Min Conc: <None>

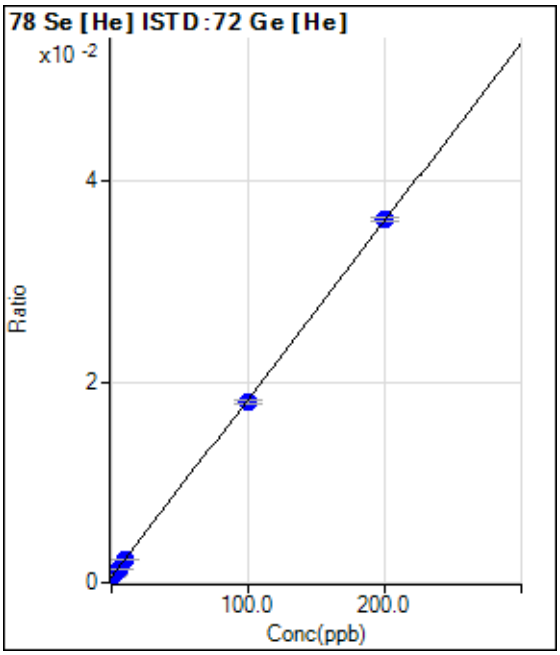
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 13396.89 | 0.0098 | P | 2.7 |
| 2 | ☐ | 2.000 | 1.538 | 13987.49 | 0.0101 | P | 3.2 |
| 3 | ☐ | 5.000 | 4.552 | 14748.31 | 0.0109 | P | 4.4 |
| 4 | ☐ | 10.000 | 9.277 | 16353.48 | 0.0120 | P | 1.1 |
| 5 | ☐ | 100.000 | 100.127 | 45517.22 | 0.0335 | P | 0.8 |
| 6 | ☐ | 200.000 | 199.988 | 76496.47 | 0.0571 | P | 3.4 |

y = 2.3660E-004 * x + 0.0098
R = 1.0000
DL = 3.383
BEC = 41.36

Weight: <None>
Min Conc: <None>

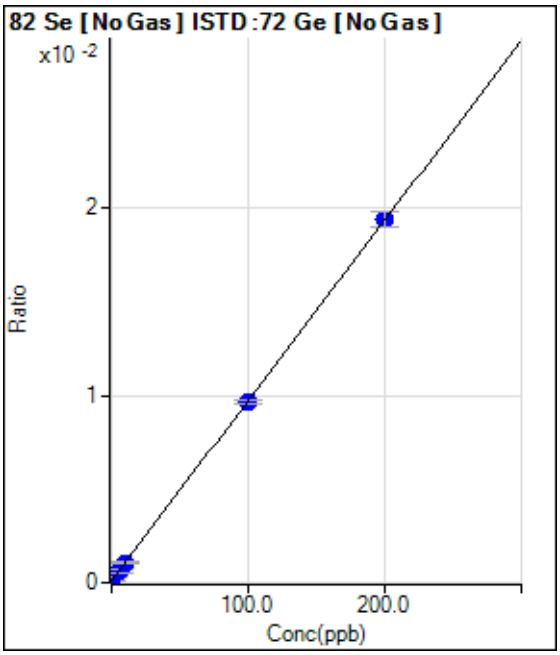



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 245.33 | 0.0006 | P | 2.0 |
| 2 | ☐ | 2.000 | 1.355 | 351.34 | 0.0008 | P | 2.7 |
| 3 | ☐ | 5.000 | 4.809 | 617.35 | 0.0014 | P | 1.4 |
| 4 | ☐ | 10.000 | 9.783 | 1000.04 | 0.0023 | P | 4.4 |
| 5 | ☐ | 100.000 | 98.731 | 7790.27 | 0.0181 | P | 1.8 |
| 6 | ☐ | 200.000 | 200.657 | 15200.55 | 0.0361 | P | 0.9 |

y = 1.7714E-004 * x + 5.6489E-004
R = 1.0000
DL = 0.1933
BEC = 3.189

Weight: <None>
Min Conc: <None>

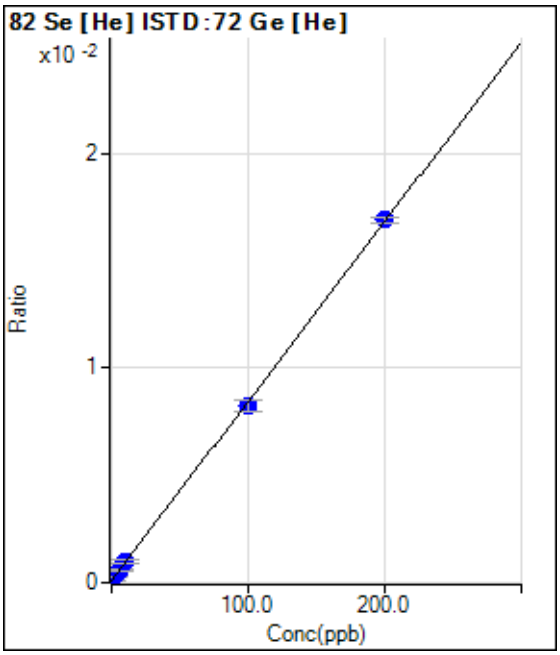
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 158.72 | 0.0001 | P | 49.9 |
| 2 | ☐ | 2.000 | 2.568 | 499.27 | 0.0004 | P | 19.2 |
| 3 | ☐ | 5.000 | 5.204 | 838.85 | 0.0006 | P | 26.7 |
| 4 | ☐ | 10.000 | 10.005 | 1472.39 | 0.0011 | P | 3.2 |
| 5 | ☐ | 100.000 | 99.265 | 13148.91 | 0.0097 | P | 2.6 |
| 6 | ☐ | 200.000 | 200.356 | 25984.38 | 0.0194 | P | 4.2 |

y = 9.6243E-005 * x + 1.1571E-004
R = 1.0000
DL = 1.8
BEC = 1.202

Weight: <None>
Min Conc: <None>

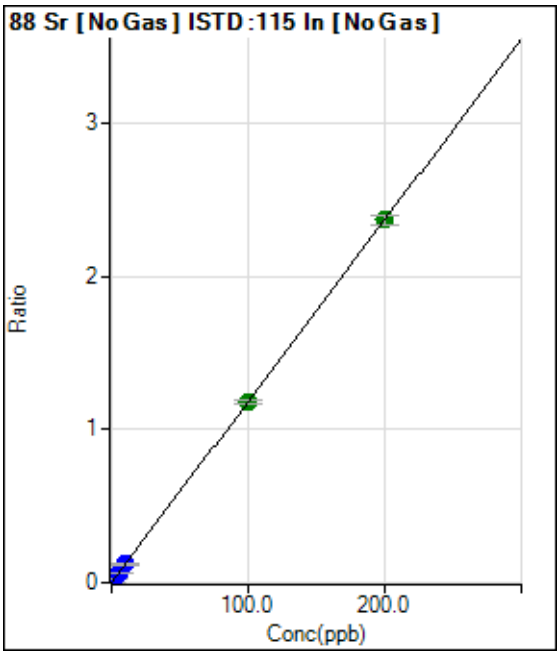



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 40.00 | 0.0001 | P | 42.7 |
| 2 | ☐ | 2.000 | 2.104 | 116.67 | 0.0003 | P | 28.3 |
| 3 | ☐ | 5.000 | 5.502 | 240.01 | 0.0006 | P | 12.8 |
| 4 | ☐ | 10.000 | 10.645 | 426.68 | 0.0010 | P | 14.4 |
| 5 | ☐ | 100.000 | 97.612 | 3560.54 | 0.0082 | P | 7.2 |
| 6 | ☐ | 200.000 | 201.148 | 7115.33 | 0.0169 | P | 1.7 |

y = 8.3577E-005 * x + 9.1851E-005
R = 0.9999
DL = 1.409
BEC = 1.099

Weight: <None>
Min Conc: <None>

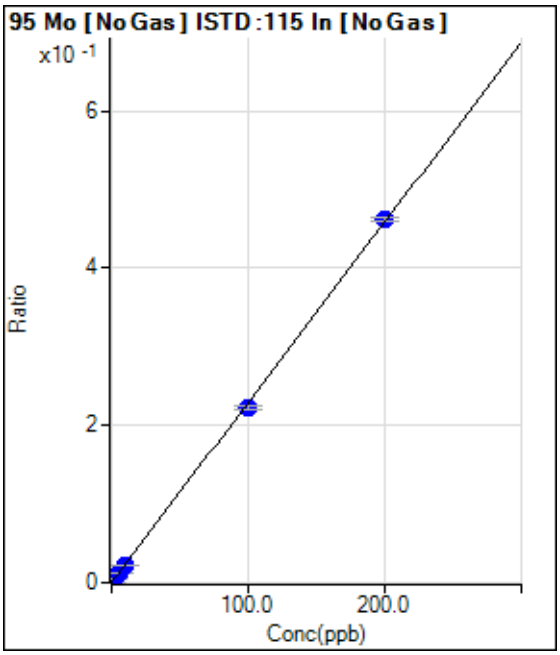
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1363.43 | 0.0009 | P | 8.6 |
| 2 | ☐ | 2.000 | 2.062 | 39715.93 | 0.0253 | P | 2.9 |
| 3 | ☐ | 5.000 | 5.197 | 96472.05 | 0.0623 | P | 1.6 |
| 4 | ☐ | 10.000 | 10.130 | 189938.47 | 0.1207 | P | 2.5 |
| 5 | ☐ | 100.000 | 99.619 | 1828631.54 | 1.1788 | A | 1.3 |
| 6 | ☐ | 200.000 | 200.178 | 3550388.38 | 2.3678 | A | 2.6 |

y = 0.0118 * x + 8.7790E-004
R = 1.0000
DL = 0.01917
BEC = 0.07425

Weight: <None>
Min Conc: <None>

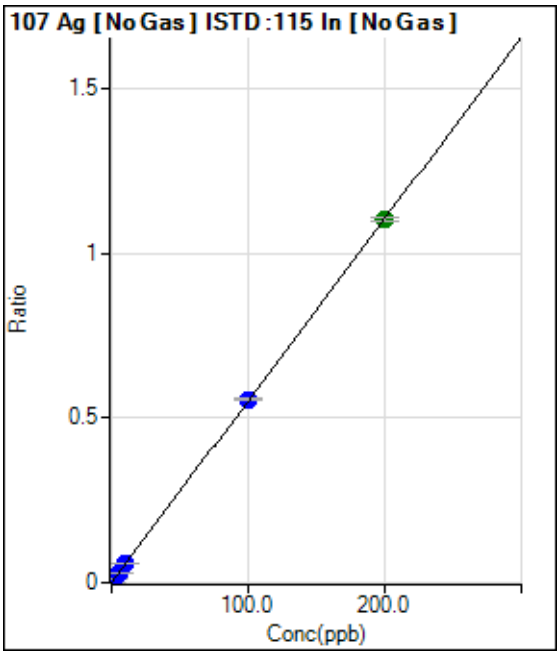



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 650.03 | 0.0004 | P | 18.7 |
| 2 | ☐ | 2.000 | 1.882 | 7435.55 | 0.0047 | P | 4.1 |
| 3 | ☐ | 5.000 | 4.853 | 17845.60 | 0.0115 | P | 2.4 |
| 4 | ☐ | 10.000 | 9.574 | 35159.98 | 0.0223 | P | 3.7 |
| 5 | ☐ | 100.000 | 97.288 | 346132.56 | 0.2231 | P | 2.1 |
| 6 | ☐ | 200.000 | 201.382 | 692097.88 | 0.4615 | P | 1.1 |

y = 0.0023 * x + 4.1934E-004
R = 0.9999
DL = 0.1028
BEC = 0.1832

Weight: <None>
Min Conc: <None>

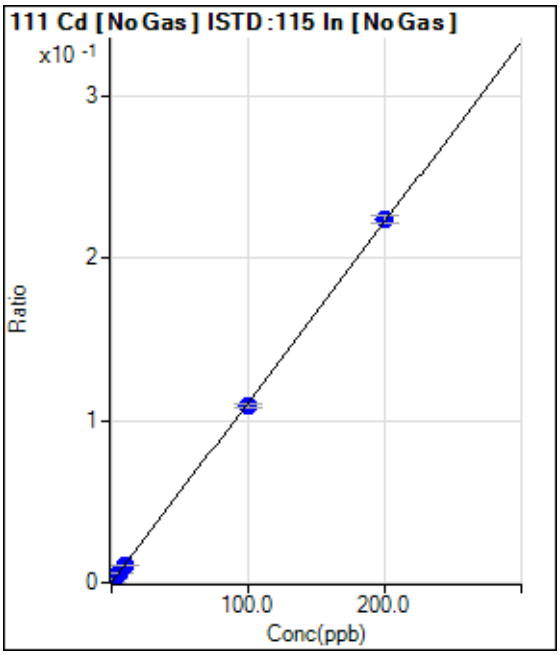
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 700.03 | 0.0005 | P | 10.6 |
| 2 | ☐ | 2.000 | 1.953 | 17675.43 | 0.0112 | P | 2.3 |
| 3 | ☐ | 5.000 | 5.143 | 44669.02 | 0.0289 | P | 3.3 |
| 4 | ☐ | 10.000 | 10.132 | 88836.91 | 0.0564 | P | 1.8 |
| 5 | ☐ | 100.000 | 100.837 | 864873.35 | 0.5575 | P | 1.7 |
| 6 | ☐ | 200.000 | 199.572 | 1654331.64 | 1.1030 | A | 1.0 |

y = 0.0055 * x + 4.5064E-004
R = 1.0000
DL = 0.02589
BEC = 0.08157

Weight: <None>
Min Conc: <None>

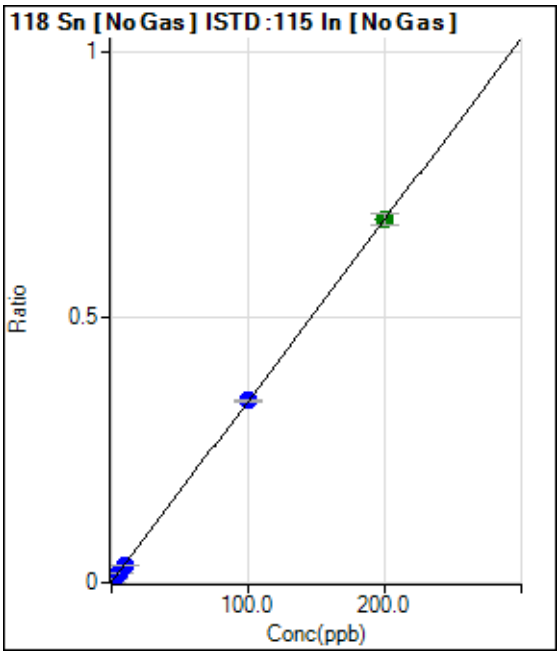



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | -7.40 | 0.0000 | P | -86.7 |
| 2 | ☐ | 2.000 | 1.937 | 3380.87 | 0.0021 | P | 3.9 |
| 3 | ☐ | 5.000 | 5.025 | 8641.10 | 0.0056 | P | 1.8 |
| 4 | ☐ | 10.000 | 9.700 | 16974.29 | 0.0108 | P | 1.7 |
| 5 | ☐ | 100.000 | 97.892 | 168839.82 | 0.1088 | P | 1.9 |
| 6 | ☐ | 200.000 | 201.069 | 335252.45 | 0.2236 | P | 2.2 |

y = 0.0011 * x - 4.7487E-006
R = 0.9999
DL = 0.0111
BEC = -0.004271

Weight: <None>
Min Conc: <None>

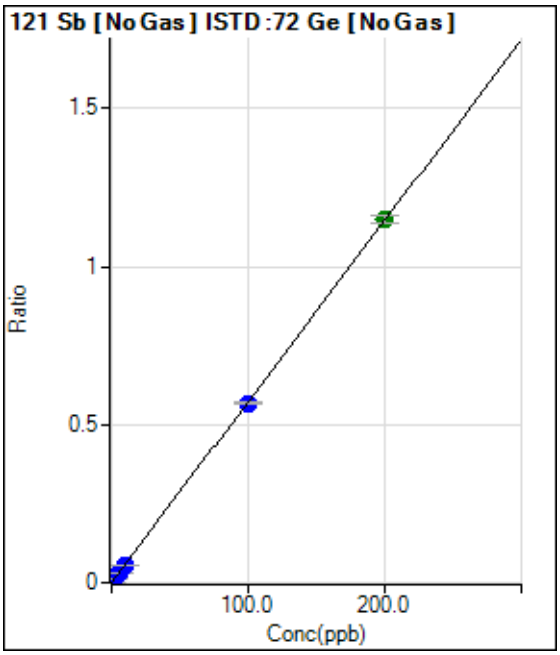
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1203.41 | 0.0008 | P | 5.9 |
| 2 | ☐ | 2.000 | 1.907 | 11475.23 | 0.0073 | P | 1.3 |
| 3 | ☐ | 5.000 | 4.881 | 27028.27 | 0.0175 | P | 0.5 |
| 4 | ☐ | 10.000 | 9.779 | 53867.24 | 0.0342 | P | 0.3 |
| 5 | ☐ | 100.000 | 100.102 | 532044.37 | 0.3430 | P | 1.8 |
| 6 | ☐ | 200.000 | 199.964 | 1026190.69 | 0.6844 | A | 3.1 |

y = 0.0034 * x + 7.7530E-004
R = 1.0000
DL = 0.04003
BEC = 0.2268

Weight: <None>
Min Conc: <None>

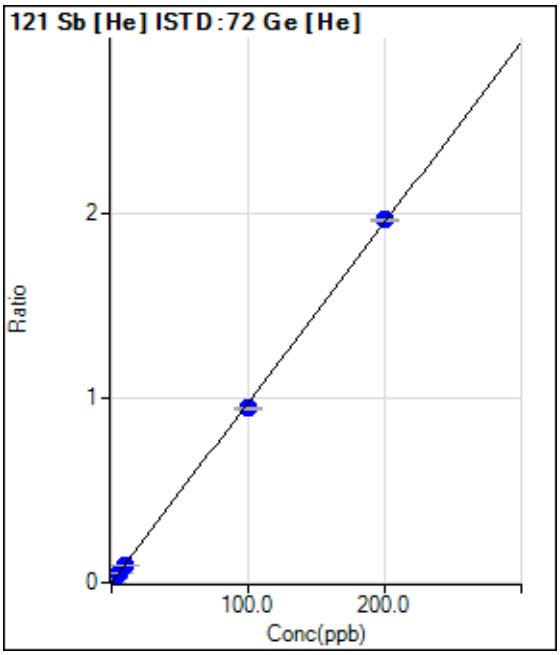



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 613.36 | 0.0004 | P | 8.6 |
| 2 | ☐ | 2.000 | 1.873 | 15382.61 | 0.0112 | P | 3.2 |
| 3 | ☐ | 5.000 | 4.933 | 38914.64 | 0.0287 | P | 2.5 |
| 4 | ☐ | 10.000 | 9.876 | 77732.58 | 0.0569 | P | 1.2 |
| 5 | ☐ | 100.000 | 99.055 | 770959.57 | 0.5671 | P | 0.9 |
| 6 | ☐ | 200.000 | 200.482 | 1537408.36 | 1.1472 | A | 2.1 |

y = 0.0057 * x + 4.4838E-004
R = 1.0000
DL = 0.02015
BEC = 0.07839

Weight: <None>
Min Conc: <None>

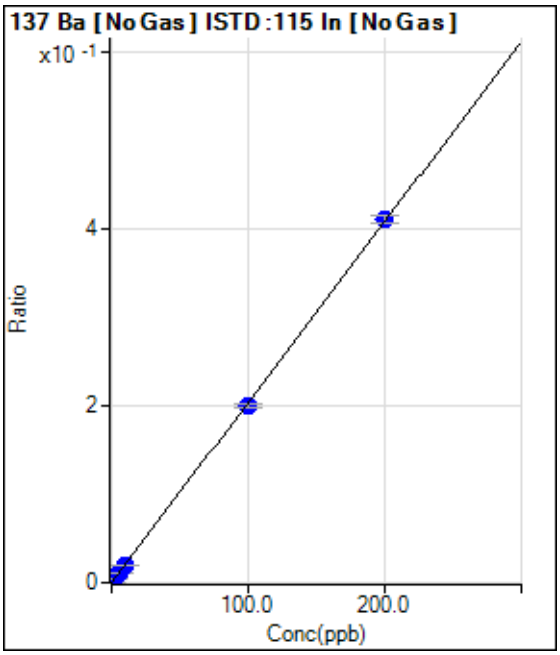
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 323.35 | 0.0007 | P | 37.4 |
| 2 | ☐ | 2.000 | 1.848 | 8192.70 | 0.0188 | P | 3.9 |
| 3 | ☐ | 5.000 | 4.785 | 20649.91 | 0.0474 | P | 1.4 |
| 4 | ☐ | 10.000 | 9.708 | 41495.95 | 0.0954 | P | 4.2 |
| 5 | ☐ | 100.000 | 97.031 | 408612.73 | 0.9468 | P | 1.1 |
| 6 | ☐ | 200.000 | 201.506 | 827434.44 | 1.9655 | P | 0.8 |

y = 0.0098 * x + 7.4473E-004
R = 0.9998
DL = 0.08578
BEC = 0.07638

Weight: <None>
Min Conc: <None>

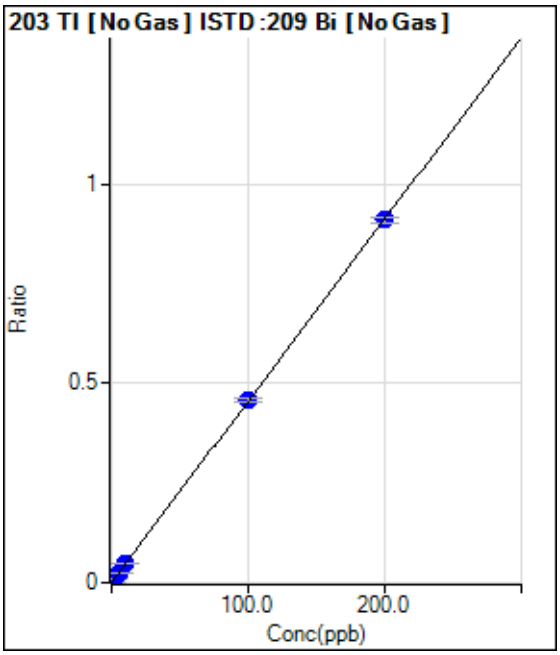



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 150.00 | 0.0001 | P | 18.4 |
| 2 | ☐ | 2.000 | 1.828 | 6008.15 | 0.0038 | P | 8.3 |
| 3 | ☐ | 5.000 | 4.874 | 15522.87 | 0.0100 | P | 2.7 |
| 4 | ☐ | 10.000 | 9.682 | 31211.18 | 0.0198 | P | 2.7 |
| 5 | ☐ | 100.000 | 97.755 | 309132.90 | 0.1993 | P | 2.6 |
| 6 | ☐ | 200.000 | 201.143 | 614806.46 | 0.4100 | P | 2.0 |

y = 0.0020 * x + 9.6727E-005
R = 0.9999
DL = 0.02618
BEC = 0.04747

Weight: <None>
Min Conc: <None>

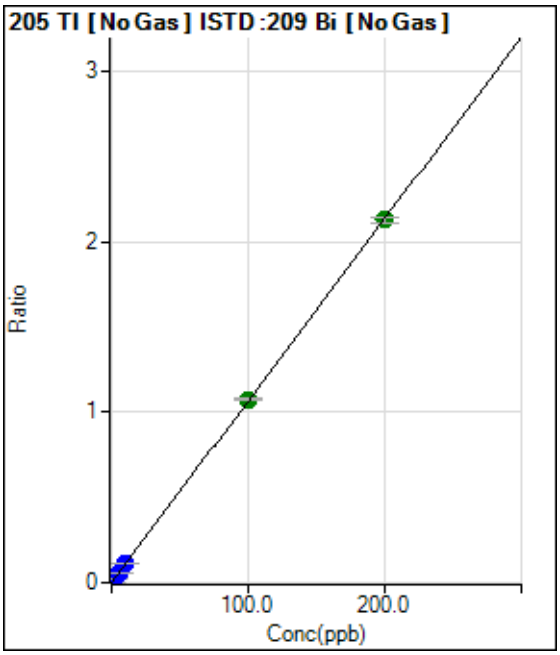
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 173.34 | 0.0002 | P | 27.3 |
| 2 | ☐ | 2.000 | 2.229 | 11088.46 | 0.0103 | P | 3.9 |
| 3 | ☐ | 5.000 | 5.382 | 26728.97 | 0.0247 | P | 1.2 |
| 4 | ☐ | 10.000 | 10.436 | 52209.10 | 0.0477 | P | 2.7 |
| 5 | ☐ | 100.000 | 100.402 | 499334.39 | 0.4572 | P | 2.1 |
| 6 | ☐ | 200.000 | 199.765 | 983252.22 | 0.9095 | P | 1.3 |

y = 0.0046 * x + 1.6022E-004
R = 1.0000
DL = 0.02877
BEC = 0.0352

Weight: <None>
Min Conc: <None>

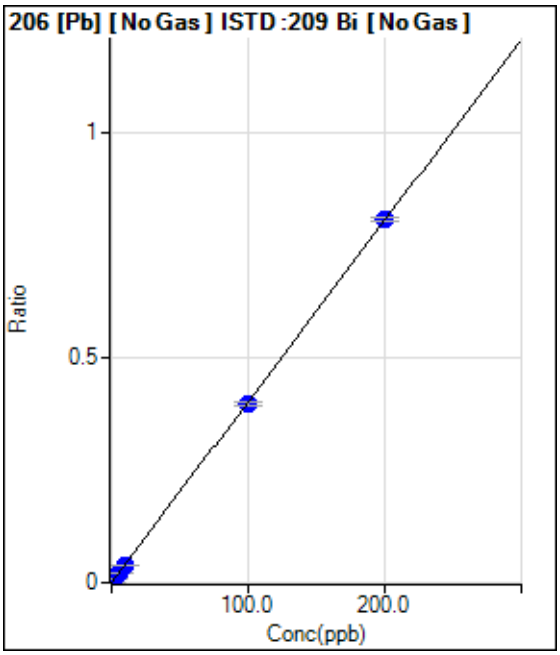



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 473.35 | 0.0004 | P | 19.3 |
| 2 | ☐ | 2.000 | 2.146 | 25132.25 | 0.0234 | P | 0.9 |
| 3 | ☐ | 5.000 | 5.392 | 62898.21 | 0.0580 | P | 1.2 |
| 4 | ☐ | 10.000 | 10.342 | 121443.72 | 0.1109 | P | 1.8 |
| 5 | ☐ | 100.000 | 100.833 | 1176736.13 | 1.0773 | A | 1.3 |
| 6 | ☐ | 200.000 | 199.555 | 2304287.26 | 2.1316 | A | 1.4 |

y = 0.0107 * x + 4.3774E-004
R = 1.0000
DL = 0.02369
BEC = 0.04099

Weight: <None>
Min Conc: <None>

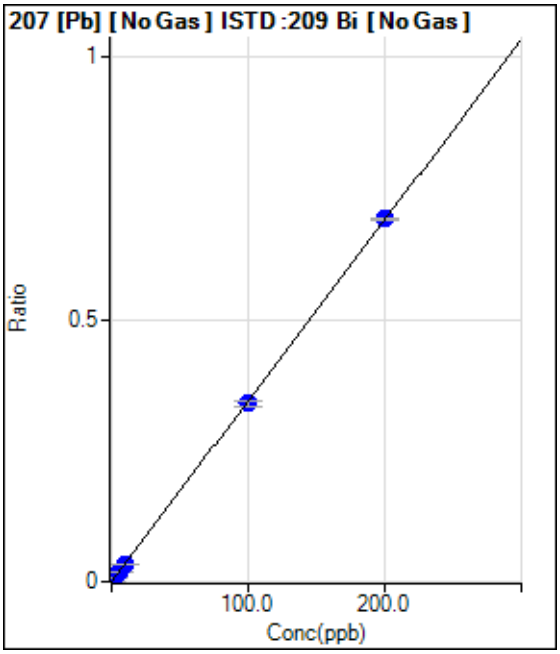
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 206.67 | 0.0002 | P | 8.8 |
| 2 | ☐ | 2.000 | 2.056 | 9090.13 | 0.0084 | P | 3.9 |
| 3 | ☐ | 5.000 | 4.859 | 21355.26 | 0.0197 | P | 1.2 |
| 4 | ☐ | 10.000 | 9.935 | 43900.79 | 0.0401 | P | 1.3 |
| 5 | ☐ | 100.000 | 99.136 | 434935.55 | 0.3983 | P | 2.2 |
| 6 | ☐ | 200.000 | 200.438 | 870258.53 | 0.8050 | P | 1.1 |

y = 0.0040 * x + 1.9096E-004
R = 1.0000
DL = 0.01262
BEC = 0.04756

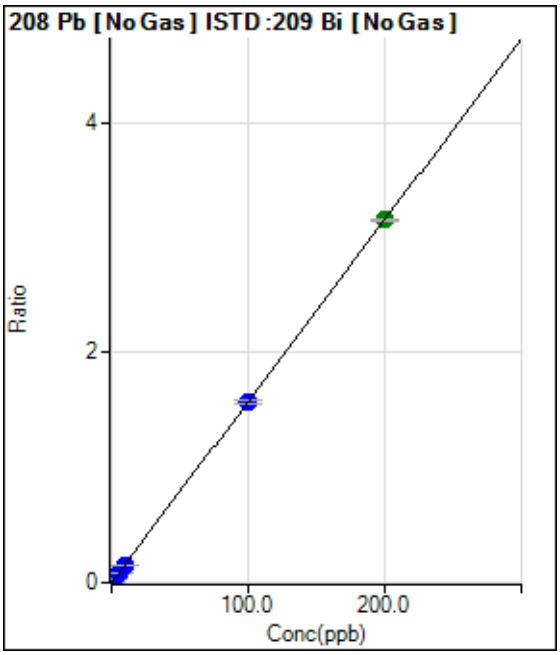
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 190.01 | 0.0002 | P | 15.4 |
| 2 | ☐ | 2.000 | 2.030 | 7709.17 | 0.0072 | P | 3.8 |
| 3 | ☐ | 5.000 | 4.818 | 18173.54 | 0.0168 | P | 0.3 |
| 4 | ☐ | 10.000 | 9.724 | 36868.14 | 0.0337 | P | 2.7 |
| 5 | ☐ | 100.000 | 98.524 | 370676.25 | 0.3394 | P | 2.7 |
| 6 | ☐ | 200.000 | 200.756 | 747534.36 | 0.6915 | P | 0.6 |

y = 0.0034 * x + 1.7571E-004
R = 1.0000
DL = 0.02364
BEC = 0.05103

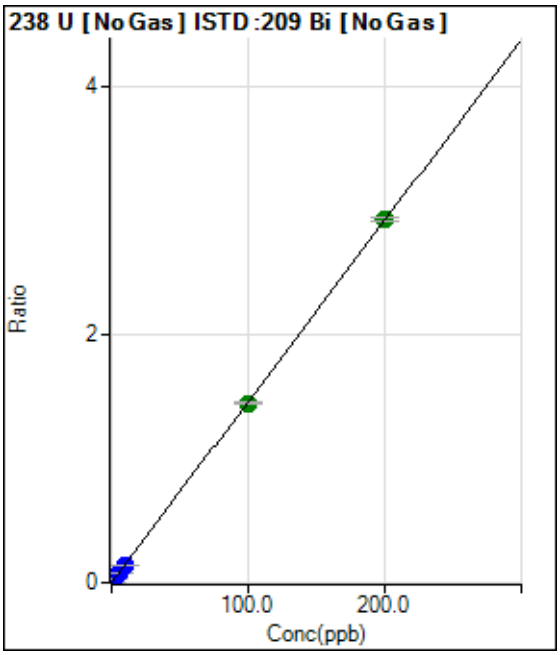
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 803.37 | 0.0007 | P | 16.4 |
| 2 | ☐ | 2.000 | 2.045 | 35470.29 | 0.0330 | P | 2.9 |
| 3 | ☐ | 5.000 | 4.945 | 85239.63 | 0.0786 | P | 0.8 |
| 4 | ☐ | 10.000 | 9.880 | 171276.18 | 0.1564 | P | 0.7 |
| 5 | ☐ | 100.000 | 99.673 | 1715464.42 | 1.5709 | P | 2.4 |
| 6 | ☐ | 200.000 | 200.170 | 3409565.73 | 3.1539 | A | 0.8 |

y = 0.0158 * x + 7.4350E-004
R = 1.0000
DL = 0.02317
BEC = 0.0472

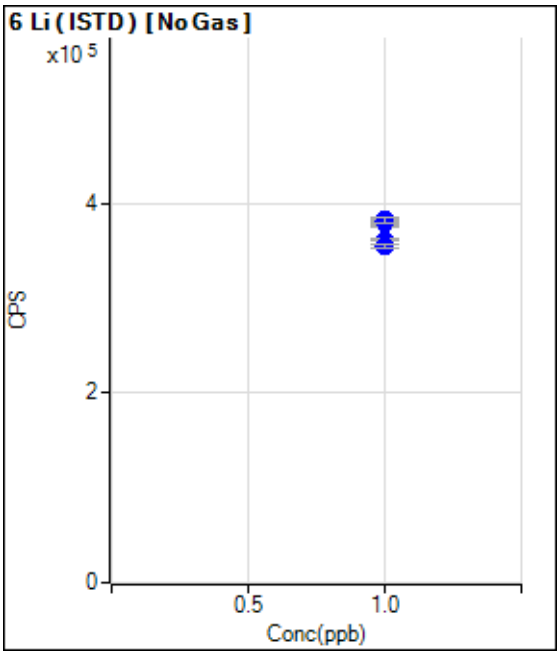
Weight: <None>
Min Conc: <None>



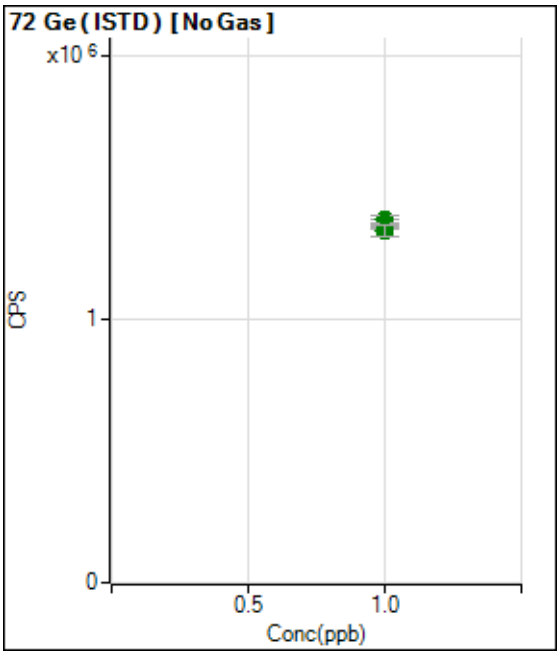

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 373.35 | 0.0003 | P | 19.2 |
| 2 | ☐ | 2.000 | 1.936 | 30728.85 | 0.0285 | P | 1.7 |
| 3 | ☐ | 5.000 | 4.791 | 76022.13 | 0.0701 | P | 0.7 |
| 4 | ☐ | 10.000 | 9.507 | 152045.99 | 0.1388 | P | 1.0 |
| 5 | ☐ | 100.000 | 99.092 | 1577036.23 | 1.4438 | A | 1.6 |
| 6 | ☐ | 200.000 | 200.484 | 3157388.91 | 2.9207 | A | 0.9 |

y = 0.0146 * x + 3.4353E-004
R = 1.0000
DL = 0.01361
BEC = 0.02358

Weight: <None>
Min Conc: <None>

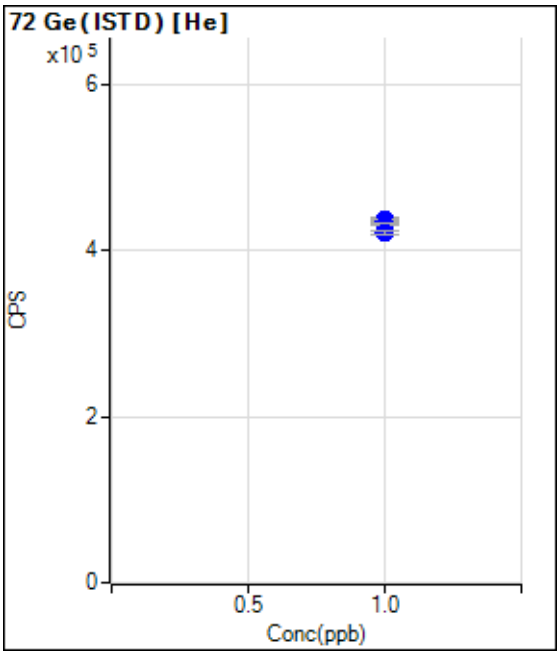



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 382126.43 | | P | 0.8 |
| 2 | ☐ | 1.000 | | 378879.07 | | P | 1.6 |
| 3 | ☐ | 1.000 | | 378112.11 | | P | 1.9 |
| 4 | ☐ | 1.000 | | 381757.62 | | P | 1.5 |
| 5 | ☐ | 1.000 | | 360861.38 | | P | 0.7 |
| 6 | ☐ | 1.000 | | 354731.25 | | P | 1.4 |

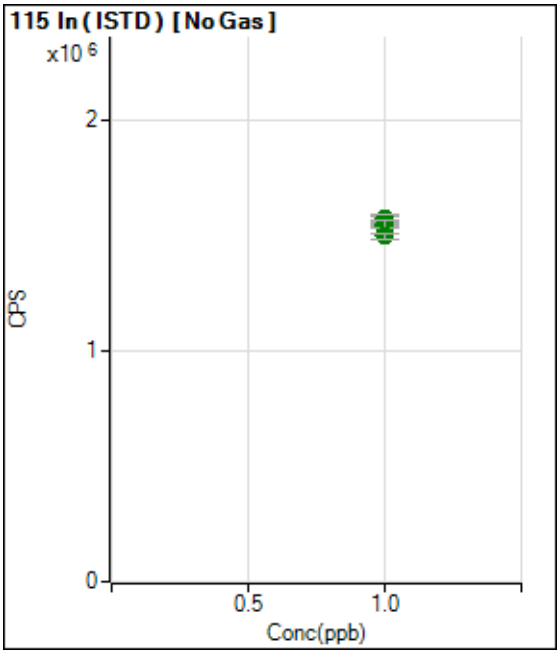



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1368912.79 | | A | 1.3 |
| 2 | ☐ | 1.000 | | 1378992.79 | | A | 2.6 |
| 3 | ☐ | 1.000 | | 1357936.70 | | A | 1.8 |
| 4 | ☐ | 1.000 | | 1365143.42 | | A | 0.6 |
| 5 | ☐ | 1.000 | | 1359648.94 | | A | 1.2 |
| 6 | ☐ | 1.000 | | 1340630.92 | | A | 3.3 |

Calibration for 020_ICV.d

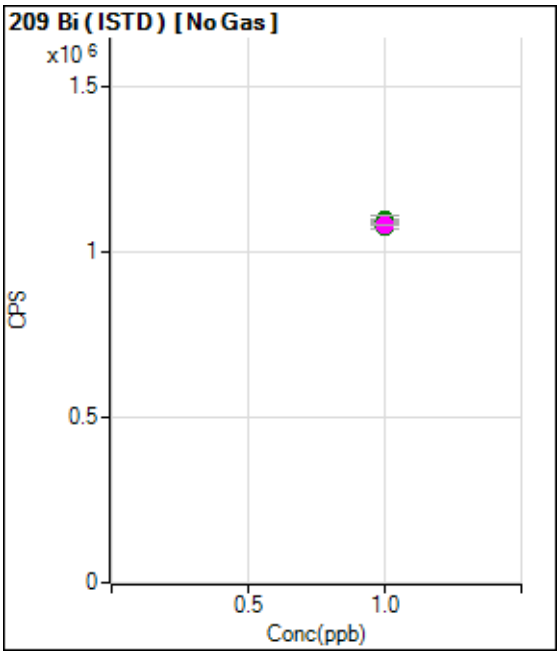



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 434354.13 | | P | 1.0 |
| 2 | ☐ | 1.000 | | 436609.94 | | P | 0.9 |
| 3 | ☐ | 1.000 | | 435689.86 | | P | 2.1 |
| 4 | ☐ | 1.000 | | 435031.73 | | P | 1.4 |
| 5 | ☐ | 1.000 | | 431537.74 | | P | 0.9 |
| 6 | ☐ | 1.000 | | 420984.46 | | P | 1.2 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1552260.58 | | A | 1.1 |
| 2 | ☐ | 1.000 | | 1572902.71 | | A | 1.5 |
| 3 | ☐ | 1.000 | | 1547971.32 | | A | 1.3 |
| 4 | ☐ | 1.000 | | 1574861.98 | | A | 2.4 |
| 5 | ☐ | 1.000 | | 1551610.42 | | A | 2.4 |
| 6 | ☐ | 1.000 | | 1499976.33 | | A | 2.0 |

Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1083437.77 | | A | 2.6 |
| 2 | ☐ | 1.000 | | 1076245.19 | | A | 1.3 |
| 3 | ☐ | 1.000 | | 1083983.78 | | M | 0.5 |
| 4 | ☐ | 1.000 | | 1095289.67 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 1092506.34 | | A | 2.6 |
| 6 | ☐ | 1.000 | | 1081056.78 | | M | 0.3 |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LLICV2 |
| Data File Name | 022LCV2.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T10:58:39-05:00 |
| Sample Type | LLCCV2 |
| Dilution | 1 |
| Comment | |
| ISTD Ref FileName | 013CALB.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 | 2.002 | 2.002 | 2.56 | 40196 | 0.00 | 2 | |
| Be | 9 | 1 | No Gas | 1.853 | 1.853 | 6.00 | 3749 | 0.05 | 2 | |
| V | 51 | 2 | He | -3.250 | -3.250 | -3.86 | 19393 | -0.02 | 2 | NewName Main CR1 Failed |
| Cr | 52 | 2 | He | 1.614 | 1.614 | 9.80 | 20405 | 0.01 | 2 | |
| Fe | 56 | 2 | He | 200.398 | 200.398 | 0.25 | 683709 | 0.03 | 200 | |
| Se | 78 | 2 | He | 1.479 | 1.479 | 24.06 | 365 | 0.41 | 2 | |
| As | 75 | 2 | He | 1.719 | 1.719 | 3.98 | 1705 | 0.10 | 2 | |
| Ca | 44 | 2 | He | 190.684 | 190.684 | 2.60 | 6155 | 3.10 | 200 | |
| Na | 23 | 2 | He | 214.287 | 214.287 | 0.93 | 160302 | 0.13 | 200 | |
| Mg | 24 | 2 | He | 220.501 | 220.501 | 1.09 | 73547 | 0.30 | 200 | |
| K | 39 | 2 | He | 216.960 | 216.960 | 3.34 | 375320 | 0.06 | 200 | |
| Mn | 55 | 2 | He | 1.905 | 1.905 | 11.71 | 6548 | 0.03 | 2 | |
| Co | 59 | 2 | He | 2.048 | 2.048 | 2.81 | 9670 | 0.02 | 2 | |
| Ni | 60 | 2 | He | 2.108 | 2.108 | 15.84 | 2830 | 0.07 | 2 | |
| Cu | 63 | 2 | He | 1.952 | 1.952 | 1.96 | 5678 | 0.03 | 2 | |
| Zn | 66 | 2 | He | 1.855 | 1.855 | 17.86 | 1523 | 0.12 | 2 | |
| Al | 27 | 2 | He | 2.132 | 2.132 | 35.54 | 1603 | 0.13 | 2 | |
| B | 11 | 1 | No Gas | 12.771 | 12.771 | 4.97 | 19911 | 0.06 | 10 | |
| Al | 27 | 1 | No Gas | 1.762 | 1.762 | 3.67 | 46799 | 0.00 | 2 | |
| Si | 28 | 1 | No Gas | 10.528 | 10.528 | 14.64 | 439298 | 0.00 | 10 | |
| Ag | 107 | 1 | No Gas | 1.937 | 1.937 | 2.68 | 17909 | 0.01 | 2 | |
| Cd | 111 | 1 | No Gas | 1.818 | 1.818 | 4.08 | 3239 | 0.06 | 2 | |
| Sr | 88 | 1 | No Gas | 2.000 | 2.000 | 1.88 | 39395 | 0.01 | 2 | |
| Mo | 95 | 1 | No Gas | 1.826 | 1.826 | 4.68 | 7389 | 0.02 | 2 | |
| Sn | 118 | 1 | No Gas | 1.866 | 1.866 | 4.22 | 11489 | 0.02 | 2 | |
| Sb | 121 | 1 | No Gas | 1.863 | 1.863 | 3.17 | 15499 | 0.01 | 2 | |
| Ba | 137 | 1 | No Gas | 1.913 | 1.913 | 6.85 | 6412 | 0.03 | 2 | |
| Tl | 205 | 1 | No Gas | 2.202 | 2.202 | 1.59 | 26318 | 0.01 | 2 | |
| Tl | 203 | 1 | No Gas | 2.251 | 2.251 | 4.03 | 11432 | 0.02 | 2 | |
| Pb | 208 | 1 | No Gas | 1.957 | 1.957 | 2.29 | 34683 | 0.01 | 2 | |
| U | 238 | 1 | No Gas | 1.856 | 1.856 | 2.37 | 30084 | 0.01 | 2 | |
| Ca | 43 | 2 | He | 198.205 | 198.205 | 19.69 | 383 | 51.70 | 200 | |
| Sb | 121 | 2 | He | 1.787 | 1.787 | 0.89 | 8016 | 0.02 | 2 | |
| Ti | 47 | 2 | He | 1.750 | 1.750 | 22.24 | 283 | 0.62 | 200 | |
| Cu | 63 | 1 | No Gas | 2.126 | 2.126 | 2.92 | 14178 | 0.01 | 2 | |
| Se | 82 | 1 | No Gas | 2.237 | 2.237 | 18.95 | 462 | 0.48 | 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 | 403120 | 1.11 | 382126 | 105.49 | 70 | 120 | |
| Ge | 72 | 2 | He | 441221 | 0.78 | 434354 | 101.58 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1396173 | 1.57 | 1368913 | 101.99 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1606577 | 2.04 | 1552261 | 103.50 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1098838 | 2.22 | 1083438 | 101.42 | 70 | 120 | |

# Initial Calibration Blank (ICB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICB |
| Data File Name | 027_ICB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T11:20:01-05:00 |
| Sample Type | ICB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 013CALB.d |
| Sample QC Pass/Fail | Pass |
| 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 | -0.118 | -35.9 | 27310 | 2.0 | 0.5 | |
| Be | 9 | 1 | No Gas | -0.034 | -24.1 | 28 | 53.9 | 0.5 | |
| V | 51 | 2 | He | -0.405 | -45.4 | 28751 | 1.4 | 2.5 | |
| Cr | 52 | 2 | He | -0.223 | -59.0 | 13847 | 3.1 | 2.5 | |
| Fe | 56 | 2 | He | -7.524 | -1.8 | 22796 | 1.6 | 100 | |
| Se | 78 | 2 | He | -0.584 | -80.4 | 203 | 17.3 | 1 | |
| As | 75 | 2 | He | -0.102 | -56.9 | 423 | 8.8 | 2.5 | |
| Ca | 44 | 2 | He | -0.282 | -137.7 | 710 | 2.4 | 100 | |
| Na | 23 | 2 | He | -12.450 | -22.5 | 40750 | 2.7 | 100 | |
| Mg | 24 | 2 | He | -3.723 | -25.6 | 3117 | 8.9 | 100 | |
| K | 39 | 2 | He | -4.159 | -169.3 | 244949 | 1.1 | 100 | |
| Mn | 55 | 2 | He | 0.043 | 69.2 | 730 | 13.5 | 2.5 | |
| Co | 59 | 2 | He | 0.002 | 335.8 | 63 | 48.2 | 2.5 | |
| Ni | 60 | 2 | He | 0.097 | 28.0 | 547 | 6.4 | 2.5 | |
| Cu | 63 | 2 | He | 0.018 | 20.7 | 280 | 3.6 | 1 | |
| Zn | 66 | 2 | He | 0.295 | 46.5 | 470 | 19.5 | 2.5 | |
| Al | 27 | 2 | He | 0.689 | 78.4 | 1223 | 10.7 | 5 | |
| B | 11 | 1 | No Gas | -0.290 | -154.2 | 6477 | 6.8 | 0.5 | |
| Al | 27 | 1 | No Gas | 0.040 | 312.0 | 33294 | 1.8 | 5 | |
| Si | 28 | 1 | No Gas | -5.698 | -43.2 | 362071 | 2.1 | 10 | |
| Ag | 107 | 1 | No Gas | -0.072 | -5.1 | 87 | 37.1 | 2.5 | |
| Cd | 111 | 1 | No Gas | -0.006 | -234.5 | -19 | -141.2 | 1 | |
| Sr | 88 | 1 | No Gas | 0.010 | 69.6 | 1573 | 7.8 | 2.5 | |
| Mo | 95 | 1 | No Gas | -0.077 | -3.6 | 387 | 1.5 | 2.5 | |
| Sn | 118 | 1 | No Gas | -0.016 | -114.3 | 1143 | 8.9 | 5 | |
| Sb | 121 | 1 | No Gas | -0.056 | -18.5 | 180 | 44.1 | 2.5 | |
| Ba | 137 | 1 | No Gas | 0.112 | 14.2 | 517 | 9.5 | 2.5 | |
| Tl | 205 | 1 | No Gas | -0.032 | -0.5 | 110 | 0.0 | 1 | |
| Tl | 203 | 1 | No Gas | -0.029 | -10.3 | 33 | 45.8 | 1 | |
| Pb | 208 | 1 | No Gas | -0.007 | -106.6 | 697 | 18.2 | 2.5 | |
| U | 238 | 1 | No Gas | -0.021 | -6.1 | 40 | 50.0 | 2.5 | |
| Ca | 43 | 2 | He | -6.459 | -89.6 | 40 | 25.0 | 100 | |
| Sb | 121 | 2 | He | -0.059 | -4.3 | 73 | 15.7 | 2.5 | |
| Ti | 47 | 2 | He | -0.139 | -56.4 | 7 | 173.2 | 2.5 | |
| Se | 82 | 1 | No Gas | -0.356 | -137.0 | 112 | 57.3 | 1 | |

**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 | 387242 | 1.23 | 382126 | 101.34 | 70 | 120 | |

# Initial Calibration Blank (ICB) Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ge | 72 | 2 | He | 441090 | 0.89 | 434354 | 101.55 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1384892 | 1.03 | 1368913 | 101.17 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1585638 | 1.29 | 1552261 | 102.15 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1097937 | 1.67 | 1083438 | 101.34 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LLICV5 |
| Data File Name | 028LCV5.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T11:21:54-05:00 |
| Sample Type | LLCCV5 |
| Dilution | 1 |
| Comment | |
| ISTD Ref FileName | 013CALB.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 | 4.638 | 4.638 | 1.26 | 52304 | 0.01 | 5 | |
| Be | 9 | 1 | No Gas | 4.628 | 4.628 | 1.21 | 8798 | 0.05 | 5 | |
| V | 51 | 2 | He | 3.902 | 3.902 | 1.03 | 43155 | 0.01 | 5 | |
| Cr | 52 | 2 | He | 4.404 | 4.404 | 5.98 | 30501 | 0.01 | 5 | |
| Fe | 56 | 2 | He | 490.357 | 490.357 | 3.14 | 1612927 | 0.03 | 500 | |
| Se | 78 | 2 | He | 4.026 | 4.026 | 6.60 | 567 | 0.71 | 5 | |
| As | 75 | 2 | He | 4.652 | 4.652 | 6.51 | 3784 | 0.12 | 5 | |
| Ca | 44 | 2 | He | 484.759 | 484.759 | 0.76 | 14608 | 3.32 | 500 | |
| Na | 23 | 2 | He | 509.110 | 509.110 | 1.97 | 317193 | 0.16 | 500 | |
| Mg | 24 | 2 | He | 537.144 | 537.144 | 2.19 | 173799 | 0.31 | 500 | |
| K | 39 | 2 | He | 508.917 | 508.917 | 1.45 | 549960 | 0.09 | 500 | |
| Mn | 55 | 2 | He | 4.966 | 4.966 | 4.53 | 16193 | 0.03 | 5 | |
| Co | 59 | 2 | He | 4.975 | 4.975 | 2.66 | 23527 | 0.02 | 5 | |
| Ni | 60 | 2 | He | 4.843 | 4.843 | 6.25 | 5968 | 0.08 | 5 | |
| Cu | 63 | 2 | He | 5.145 | 5.145 | 6.71 | 14662 | 0.04 | 5 | |
| Zn | 66 | 2 | He | 4.767 | 4.767 | 3.83 | 3504 | 0.14 | 5 | |
| Al | 27 | 2 | He | 4.087 | 4.087 | 12.01 | 2127 | 0.19 | 5 | |
| B | 11 | 1 | No Gas | 22.918 | 22.918 | 1.12 | 28763 | 0.08 | 25 | |
| Al | 27 | 1 | No Gas | 4.347 | 4.347 | 2.23 | 65648 | 0.01 | 5 | |
| Si | 28 | 1 | No Gas | 18.571 | 18.571 | 6.44 | 468853 | 0.00 | 25 | |
| Ag | 107 | 1 | No Gas | 5.029 | 5.029 | 2.53 | 44903 | 0.01 | 5 | |
| Cd | 111 | 1 | No Gas | 4.811 | 4.811 | 4.94 | 8501 | 0.06 | 5 | |
| Sr | 88 | 1 | No Gas | 5.040 | 5.040 | 2.73 | 96184 | 0.01 | 5 | |
| Mo | 95 | 1 | No Gas | 4.690 | 4.690 | 2.72 | 17742 | 0.03 | 5 | |
| Sn | 118 | 1 | No Gas | 4.884 | 4.884 | 2.05 | 27790 | 0.02 | 5 | |
| Sb | 121 | 1 | No Gas | 4.811 | 4.811 | 0.54 | 38450 | 0.01 | 5 | |
| Ba | 137 | 1 | No Gas | 4.897 | 4.897 | 4.98 | 16017 | 0.03 | 5 | |
| Tl | 205 | 1 | No Gas | 5.168 | 5.168 | 3.06 | 62526 | 0.01 | 5 | |
| Tl | 203 | 1 | No Gas | 5.107 | 5.107 | 0.87 | 26318 | 0.02 | 5 | |
| Pb | 208 | 1 | No Gas | 4.881 | 4.881 | 1.02 | 87268 | 0.01 | 5 | |
| U | 238 | 1 | No Gas | 4.647 | 4.647 | 0.94 | 76478 | 0.01 | 5 | |
| Ca | 43 | 2 | He | 509.811 | 509.811 | 2.99 | 910 | 56.02 | 500 | |
| Sb | 121 | 2 | He | 4.650 | 4.650 | 1.79 | 20433 | 0.02 | 5 | |
| Ti | 47 | 2 | He | 4.844 | 4.844 | 1.74 | 740 | 0.65 | 5 | |
| Cu | 63 | 1 | No Gas | 5.169 | 5.169 | 2.80 | 32365 | 0.02 | 5 | |
| Se | 82 | 1 | No Gas | 4.807 | 4.807 | 19.67 | 796 | 0.60 | 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 | 384570 | 0.85 | 382126 | 100.64 | 70 | 120 | |
| Ge | 72 | 2 | He | 443339 | 1.08 | 434354 | 102.07 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1374829 | 1.71 | 1368913 | 100.43 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1591198 | 3.02 | 1552261 | 102.51 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1124293 | 1.68 | 1083438 | 103.77 | 70 | 120 | |

# Interference Check Solution A (ICS-A) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICSA |
| Data File Name | 030ICSA.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T11:26:27-05:00 |
| Sample Type | ICSA |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 013CALB.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 | 0.309 | 23.2 | 26577 | 1.5 | 0 | ICSA Main CR1 Failed |
| Be | 9 | 1 | No Gas | -0.037 | -13.8 | 20 | 43.3 | 0 | ICSA Main CR1 Failed |
| V | 51 | 2 | He | -5.000 | -3.9 | 13241 | 4.1 | 0 | ICSA Main CR1 Failed |
| Cr | 52 | 2 | He | 1.484 | 0.6 | 18516 | 0.6 | 0 | ICSA Main CR1 Failed |
| Fe | 56 | 2 | He | 97458.669 | 0.5 | 287647229 | 0.5 | 0 | |
| Se | 78 | 2 | He | -0.138 | -110.4 | 221 | 4.6 | 0 | ICSA Main CR1 Failed |
| As | 75 | 2 | He | 0.170 | 11.8 | 571 | 2.7 | 0 | ICSA Main CR1 Failed |
| Ca | 44 | 2 | He | 95972.849 | 1.7 | 2540808 | 1.9 | 0 | |
| Na | 23 | 2 | He | 96010.581 | 1.8 | 47031071 | 1.5 | 0 | |
| Mg | 24 | 2 | He | 95677.710 | 0.9 | 27902052 | 0.5 | 0 | |
| K | 39 | 2 | He | 96311.599 | 0.8 | 52915344 | 0.6 | 0 | |
| Mn | 55 | 2 | He | 1.235 | 3.1 | 4137 | 2.4 | 0 | ICSA Main CR1 Failed |
| Co | 59 | 2 | He | 0.643 | 2.5 | 2854 | 2.6 | 0 | ICSA Main CR1 Failed |
| Ni | 60 | 2 | He | 0.981 | 12.2 | 1440 | 8.4 | 0 | ICSA Main CR1 Failed |
| Cu | 63 | 2 | He | 0.383 | 17.7 | 1207 | 14.1 | 0 | ICSA Main CR1 Failed |
| Zn | 66 | 2 | He | 3.016 | 3.2 | 2140 | 2.3 | 0 | ICSA Main CR1 Failed |
| Al | 27 | 2 | He | 89072.440 | 0.7 | 21733180 | 0.2 | 0 | |
| B | 11 | 1 | No Gas | 1.116 | 5.7 | 7042 | 1.1 | 0 | |
| Al | 27 | 1 | No Gas | 92491.464 | 1.3 | 651571337 | 0.8 | 0 | |
| Si | 28 | 1 | No Gas | 29.575 | 1.2 | 482629 | 1.4 | 0 | |
| Ag | 107 | 1 | No Gas | 0.107 | 13.2 | 1527 | 7.8 | 0 | ICSA Main CR1 Failed |
| Cd | 111 | 1 | No Gas | 0.377 | 24.0 | 607 | 23.6 | 0 | ICSA Main CR1 Failed |
| Sr | 88 | 1 | No Gas | 4.665 | 2.6 | 82184 | 0.9 | 0 | ICSA Main CR1 Failed |
| Mo | 95 | 1 | No Gas | 1939.475 | 3.0 | 6511760 | 0.6 | 0 | |
| Sn | 118 | 1 | No Gas | -0.028 | -36.0 | 997 | 2.1 | 0 | ICSA Main CR1 Failed |
| Sb | 121 | 1 | No Gas | 0.205 | 17.8 | 2074 | 13.9 | 0 | ICSA Main CR1 Failed |
| Ba | 137 | 1 | No Gas | 0.671 | 4.6 | 2147 | 2.6 | 0 | ICSA Main CR1 Failed |
| Tl | 205 | 1 | No Gas | -0.020 | -36.6 | 237 | 35.2 | 0 | ICSA Main CR1 Failed |
| Tl | 203 | 1 | No Gas | -0.010 | -42.8 | 123 | 16.9 | 0 | ICSA Main CR1 Failed |
| Pb | 208 | 1 | No Gas | 0.173 | 9.4 | 3697 | 7.6 | 0 | ICSA Main CR1 Failed |
| U | 238 | 1 | No Gas | -0.015 | -9.3 | 137 | 15.2 | 0 | ICSA Main CR1 Failed |
| Ca | 43 | 2 | He | 95969.116 | 1.8 | 149484 | 1.8 | 0 | |
| Sb | 121 | 2 | He | 0.197 | 12.0 | 1090 | 8.2 | 0 | ICSA Main CR1 Failed |
| Ti | 47 | 2 | He | 2064.972 | 1.1 | 280812 | 0.6 | 0 | |
| Se | 82 | 1 | No Gas | 0.274 | 172.1 | 181 | 30.8 | 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 | 347885 | 0.44 | 382126 | 91.04 | 70 | 120 | |
| Ge | 72 | 2 | He | 409633 | 0.51 | 434354 | 94.31 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1279655 | 1.13 | 1368913 | 93.48 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1467427 | 3.50 | 1552261 | 94.53 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1067719 | 0.37 | 1083438 | 98.55 | 70 | 120 | |

# Interference Check Solution AB (ICS-AB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICSAB |
| Data File Name | 031ICSB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T11:28:21-05:00 |
| Sample Type | ICSB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 013CALB.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 | 96.529 | 2.661 | 476301 | 0.36 | 100 | 96.5 | 180 | 120 | ICSB Main CR1 Failed |
| Be | 9 | 1 | No Gas | 96.677 | 2.572 | 160811 | 0.50 | 100 | 96.7 | 80 | 120 | |
| V | 51 | 2 | He | 101.393 | 0.849 | 325347 | 0.36 | 100 | 101.4 | 80 | 120 | |
| Cr | 52 | 2 | He | 99.400 | 0.392 | 342195 | 0.44 | 100 | 99.4 | 80 | 120 | |
| Fe | 56 | 2 | He | 108808.678 | 1.246 | 320478669 | 1.17 | 100 | 108808.7 | 80 | 120 | |
| Se | 78 | 2 | He | 101.040 | 0.583 | 7547 | 0.27 | 100 | 101.0 | 80 | 120 | |
| As | 75 | 2 | He | 100.059 | 0.891 | 65663 | 0.87 | 100 | 100.1 | 80 | 120 | |
| Ca | 44 | 2 | He | 106772.772 | 2.064 | 2820637 | 1.68 | 100 | 106772.8 | 80 | 120 | |
| Na | 23 | 2 | He | 106930.887 | 0.907 | 52270058 | 1.12 | 100 | 106930.9 | 80 | 120 | |
| Mg | 24 | 2 | He | 107997.521 | 0.909 | 31429565 | 0.55 | 100 | 107997.5 | 80 | 120 | ICSB Main CR1 Failed |
| K | 39 | 2 | He | 106922.800 | 0.794 | 58598974 | 0.45 | 100 | 106922.8 | 80 | 120 | |
| Mn | 55 | 2 | He | 99.536 | 0.881 | 288765 | 0.70 | 100 | 99.5 | 80 | 120 | |
| Co | 59 | 2 | He | 99.712 | 1.093 | 433855 | 1.21 | 100 | 99.7 | 80 | 120 | |
| Ni | 60 | 2 | He | 96.920 | 1.484 | 102399 | 1.20 | 100 | 96.9 | 80 | 120 | |
| Cu | 63 | 2 | He | 96.935 | 0.999 | 250901 | 0.72 | 100 | 96.9 | 80 | 120 | |
| Zn | 66 | 2 | He | 100.883 | 1.493 | 63287 | 1.24 | 100 | 100.9 | 80 | 120 | |
| Al | 27 | 2 | He | 90330.963 | 1.089 | 21994840 | 0.82 | 100 | 90331.0 | 80 | 120 | ICSB Main CR1 Failed |
| B | 11 | 1 | No Gas | 479.028 | 2.353 | 413362 | 0.75 | 100 | 479.0 | 80 | 120 | |
| Al | 27 | 1 | No Gas | 93538.774 | 2.864 | 653899577 | 0.23 | 100 | 93538.8 | 80 | 120 | ICSB Main CR1 Failed |
| Si | 28 | 1 | No Gas | 537.070 | 4.155 | 2591281 | 0.62 | 100 | 537.1 | 80 | 120 | |
| Ag | 107 | 1 | No Gas | 100.134 | 2.527 | 806121 | 0.73 | 100 | 100.1 | 80 | 120 | |
| Cd | 111 | 1 | No Gas | 100.656 | 2.976 | 162938 | 0.87 | 100 | 100.7 | 80 | 120 | |
| Sr | 88 | 1 | No Gas | 106.606 | 2.494 | 1836713 | 1.69 | 100 | 106.6 | 80 | 120 | |
| Mo | 95 | 1 | No Gas | 2067.873 | 2.392 | 6893651 | 0.89 | 100 | 2067.9 | 80 | 120 | ICSB Main CR1 Failed |
| Sn | 118 | 1 | No Gas | 103.164 | 2.051 | 514712 | 1.71 | 100 | 103.2 | 80 | 120 | |
| Sb | 121 | 1 | No Gas | 106.573 | 1.624 | 774839 | 1.54 | 100 | 106.6 | 80 | 120 | |
| Ba | 137 | 1 | No Gas | 102.683 | 2.624 | 304802 | 1.11 | 100 | 102.7 | 80 | 120 | |
| Tl | 205 | 1 | No Gas | 98.557 | 0.758 | 1109899 | 0.36 | 100 | 98.6 | 80 | 120 | |
| Tl | 203 | 1 | No Gas | 99.247 | 0.652 | 476401 | 0.76 | 100 | 99.2 | 80 | 120 | |
| Pb | 208 | 1 | No Gas | 101.392 | 1.064 | 1684367 | 1.29 | 100 | 101.4 | 80 | 120 | |
| U | 238 | 1 | No Gas | 104.080 | 0.925 | 1598434 | 1.09 | 100 | 104.1 | 80 | 120 | |
| Ca | 43 | 2 | He | 106336.030 | 1.189 | 165282 | 0.79 | 100 | 106336.0 | 80 | 120 | |
| Sb | 121 | 2 | He | 100.899 | 1.178 | 402472 | 1.16 | 100 | 100.9 | 80 | 120 | |
| Ti | 47 | 2 | He | 2173.743 | 0.663 | 295001 | 0.61 | 100 | 2173.7 | 80 | 120 | |
| Cu | 63 | 1 | No Gas | 104.238 | 2.415 | 583648 | 0.94 | 100 | 104.2 | 80 | 120 | |
| Se | 82 | 1 | No Gas | 104.007 | 3.099 | 12861 | 3.35 | 100 | 104.0 | 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 | 340045 | 2.13 | 382126 | 88.99 | 70 | 120 | |
| Ge | 72 | 2 | He | 408789 | 0.42 | 434354 | 94.11 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1270493 | 3.06 | 1368913 | 92.81 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1456784 | 3.27 | 1552261 | 93.85 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1054089 | 0.59 | 1083438 | 97.29 | 70 | 120 | |

# Calibration Blank Report

**Sample Table**

| | |
|---|---|
| Sample Name | CAL BLK |
| Data File Name | 085CALB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:20:35-05:00 |
| Sample Type | CalBlk |
| Level | 1 |
| Dilution | 1 |
| Comment | |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 31333 | 0.01 |
| Be | 9 | 1 | No Gas | 30 | 0.00 |
| V | 51 | 2 | He | 14271 | 0.01 |
| Cr | 52 | 2 | He | 14161 | 0.02 |
| Fe | 56 | 2 | He | 45346 | 0.00 |
| Se | 78 | 2 | He | 217 | 7.33 |
| As | 75 | 2 | He | 441 | 1.50 |
| Ca | 44 | 2 | He | 620 | 1.71 |
| Na | 23 | 2 | He | 35469 | 0.01 |
| Mg | 24 | 2 | He | 1974 | 0.47 |
| K | 39 | 2 | He | 266703 | 0.00 |
| Mn | 55 | 2 | He | 363 | 1.16 |
| Co | 59 | 2 | He | 53 | 88.47 |
| Ni | 60 | 2 | He | 340 | 5.19 |
| Cu | 63 | 2 | He | 223 | 14.08 |
| Zn | 66 | 2 | He | 303 | 7.24 |
| Al | 27 | 2 | He | 1123 | 0.76 |
| B | 11 | 1 | No Gas | 6970 | 0.03 |
| Al | 27 | 1 | No Gas | 37310 | 0.00 |
| Si | 28 | 1 | No Gas | 401994 | 0.00 |
| Ag | 107 | 1 | No Gas | 823 | 0.81 |
| Sr | 88 | 1 | No Gas | 1357 | 0.35 |
| Mo | 95 | 1 | No Gas | 680 | 0.22 |
| Sn | 118 | 1 | No Gas | 1183 | 0.66 |
| Sb | 121 | 1 | No Gas | 743 | 1.78 |
| Ba | 137 | 1 | No Gas | 203 | 11.43 |
| Tl | 205 | 1 | No Gas | 557 | 2.27 |
| Tl | 203 | 1 | No Gas | 207 | 16.61 |
| Pb | 208 | 1 | No Gas | 727 | 1.34 |
| U | 238 | 1 | No Gas | 377 | 1.08 |
| Ca | 43 | 2 | He | 63 | 80.14 |
| Sb | 121 | 2 | He | 357 | 1.98 |
| Ti | 47 | 2 | He | 20 | 0.00 |
| Cu | 63 | 1 | No Gas | 1103 | 1.96 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 471023 | 1.28 |

# Calibration Blank Report

| | | | | | |
|---|---|---|---|---|---|
| Ge | 72 | 2 | He | 472743 | 1.60 |
| Ge | 72 | 1 | No Gas | 1532243 | 3.04 |
| In | 115 | 1 | No Gas | 1782326 | 2.20 |
| Bi | 209 | 1 | No Gas | 1201520 | 2.10 |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 2/10/200 |
| Data File Name | 086CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:22:27-05:00 |
| Sample Type | CalStd |
| Level | 2 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 4052 | 0.04 |
| V | 51 | 2 | He | 21636 | 0.00 |
| Cr | 52 | 2 | He | 22295 | 0.01 |
| Fe | 56 | 2 | He | 758106 | 0.00 |
| Se | 78 | 2 | He | 385 | 2.03 |
| As | 75 | 2 | He | 1953 | 0.20 |
| Ca | 44 | 2 | He | 6805 | 0.04 |
| Na | 23 | 2 | He | 165303 | 0.00 |
| Mg | 24 | 2 | He | 82017 | 0.00 |
| K | 39 | 2 | He | 400911 | 0.00 |
| Mn | 55 | 2 | He | 7095 | 0.08 |
| Co | 59 | 2 | He | 10688 | 0.02 |
| Ni | 60 | 2 | He | 2640 | 0.50 |
| Cu | 63 | 2 | He | 6448 | 0.06 |
| Zn | 66 | 2 | He | 1693 | 0.65 |
| Al | 27 | 2 | He | 1804 | 0.31 |
| B | 11 | 1 | No Gas | 17608 | 0.01 |
| Al | 27 | 1 | No Gas | 54129 | 0.00 |
| Si | 28 | 1 | No Gas | 452497 | 0.00 |
| Ag | 107 | 1 | No Gas | 20456 | 0.01 |
| Cd | 111 | 1 | No Gas | 3744 | 0.17 |
| Sr | 88 | 1 | No Gas | 45407 | 0.00 |
| Mo | 95 | 1 | No Gas | 8723 | 0.01 |
| Sn | 118 | 1 | No Gas | 13444 | 0.02 |
| Sb | 121 | 1 | No Gas | 17595 | 0.01 |
| Ba | 137 | 1 | No Gas | 7399 | 0.08 |
| Tl | 205 | 1 | No Gas | 28874 | 0.00 |
| Tl | 203 | 1 | No Gas | 12049 | 0.02 |
| Pb | 208 | 1 | No Gas | 39829 | 0.00 |
| U | 238 | 1 | No Gas | 33944 | 0.01 |
| Ca | 43 | 2 | He | 350 | 5.71 |
| Sb | 121 | 2 | He | 8613 | 0.06 |
| Cu | 63 | 1 | No Gas | 16006 | 0.02 |

**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 | 475143 | 0.23 | 471023 | 100.87 | 70 | 120 | |
| Ge | 72 | 2 | He | 469146 | 0.79 | 472743 | 99.24 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1563880 | 1.69 | 1532243 | 102.06 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1805997 | 1.17 | 1782326 | 101.33 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1256841 | 1.23 | 1201520 | 104.60 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 5/25/500 |
| Data File Name | 087CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:24:19-05:00 |
| Sample Type | CalStd |
| Level | 3 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 10252 | 0.01 |
| V | 51 | 2 | He | 32491 | 0.00 |
| Cr | 52 | 2 | He | 34146 | 0.01 |
| Fe | 56 | 2 | He | 1831651 | 0.00 |
| Se | 78 | 2 | He | 602 | 0.55 |
| As | 75 | 2 | He | 4004 | 0.11 |
| Ca | 44 | 2 | He | 16010 | 0.02 |
| Na | 23 | 2 | He | 363672 | 0.00 |
| Mg | 24 | 2 | He | 199967 | 0.00 |
| K | 39 | 2 | He | 609025 | 0.00 |
| Mn | 55 | 2 | He | 17094 | 0.02 |
| Co | 59 | 2 | He | 26132 | 0.00 |
| Ni | 60 | 2 | He | 6462 | 0.06 |
| Cu | 63 | 2 | He | 15779 | 0.01 |
| Zn | 66 | 2 | He | 4057 | 0.17 |
| Al | 27 | 2 | He | 2474 | 0.42 |
| B | 11 | 1 | No Gas | 34165 | 0.01 |
| Al | 27 | 1 | No Gas | 77324 | 0.00 |
| Si | 28 | 1 | No Gas | 536806 | 0.00 |
| Ag | 107 | 1 | No Gas | 51393 | 0.00 |
| Cd | 111 | 1 | No Gas | 9604 | 0.00 |
| Sr | 88 | 1 | No Gas | 110839 | 0.00 |
| Mo | 95 | 1 | No Gas | 20379 | 0.02 |
| Sn | 118 | 1 | No Gas | 31695 | 0.01 |
| Sb | 121 | 1 | No Gas | 45034 | 0.00 |
| Ba | 137 | 1 | No Gas | 17632 | 0.01 |
| Tl | 205 | 1 | No Gas | 71813 | 0.00 |
| Tl | 203 | 1 | No Gas | 30130 | 0.00 |
| Pb | 208 | 1 | No Gas | 99225 | 0.00 |
| U | 238 | 1 | No Gas | 84698 | 0.00 |
| Ca | 43 | 2 | He | 1003 | 1.24 |
| Sb | 121 | 2 | He | 21775 | 0.01 |
| Cu | 63 | 1 | No Gas | 38107 | 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 | 474252 | 1.53 | 471023 | 100.69 | 70 | 120 | |
| Ge | 72 | 2 | He | 472591 | 0.99 | 472743 | 99.97 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1568018 | 1.73 | 1532243 | 102.33 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1819393 | 1.03 | 1782326 | 102.08 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1247793 | 1.11 | 1201520 | 103.85 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 10/50/100 |
| Data File Name | 088CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:26:11-05:00 |
| Sample Type | CalStd |
| Level | 4 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 20064 | 0.00 |
| V | 51 | 2 | He | 50078 | 0.00 |
| Cr | 52 | 2 | He | 54211 | 0.00 |
| Fe | 56 | 2 | He | 3515075 | 0.00 |
| Se | 78 | 2 | He | 1043 | 0.14 |
| As | 75 | 2 | He | 7836 | 0.03 |
| Ca | 44 | 2 | He | 30628 | 0.01 |
| Na | 23 | 2 | He | 682270 | 0.00 |
| Mg | 24 | 2 | He | 393465 | 0.00 |
| K | 39 | 2 | He | 916179 | 0.00 |
| Mn | 55 | 2 | He | 33625 | 0.01 |
| Co | 59 | 2 | He | 51842 | 0.00 |
| Ni | 60 | 2 | He | 12916 | 0.03 |
| Cu | 63 | 2 | He | 31096 | 0.01 |
| Zn | 66 | 2 | He | 7686 | 0.05 |
| Al | 27 | 2 | He | 3841 | 0.21 |
| B | 11 | 1 | No Gas | 61613 | 0.00 |
| Al | 27 | 1 | No Gas | 123928 | 0.00 |
| Si | 28 | 1 | No Gas | 677874 | 0.00 |
| Ag | 107 | 1 | No Gas | 100523 | 0.00 |
| Cd | 111 | 1 | No Gas | 19659 | 0.01 |
| Sr | 88 | 1 | No Gas | 221100 | 0.00 |
| Mo | 95 | 1 | No Gas | 39596 | 0.00 |
| Sn | 118 | 1 | No Gas | 61909 | 0.00 |
| Sb | 121 | 1 | No Gas | 90471 | 0.00 |
| Ba | 137 | 1 | No Gas | 35489 | 0.00 |
| Tl | 205 | 1 | No Gas | 138129 | 0.00 |
| Tl | 203 | 1 | No Gas | 57616 | 0.00 |
| Pb | 208 | 1 | No Gas | 195347 | 0.00 |
| U | 238 | 1 | No Gas | 171046 | 0.00 |
| Ca | 43 | 2 | He | 1697 | 0.12 |
| Sb | 121 | 2 | He | 43369 | 0.00 |
| Cu | 63 | 1 | No Gas | 74597 | 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 | 469600 | 1.28 | 471023 | 99.70 | 70 | 120 | |
| Ge | 72 | 2 | He | 467523 | 0.30 | 472743 | 98.90 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1559453 | 0.97 | 1532243 | 101.78 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1803042 | 2.00 | 1782326 | 101.16 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1229974 | 0.82 | 1201520 | 102.37 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 100/500/10K |
| Data File Name | 089CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:28:03-05:00 |
| Sample Type | CalStd |
| Level | 5 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 196430 | 0.00 |
| V | 51 | 2 | He | 369706 | 0.00 |
| Cr | 52 | 2 | He | 395608 | 0.00 |
| Fe | 56 | 2 | He | 33380628 | 0.00 |
| Se | 78 | 2 | He | 8031 | 0.03 |
| As | 75 | 2 | He | 72680 | 0.00 |
| Ca | 44 | 2 | He | 295536 | 0.00 |
| Na | 23 | 2 | He | 5782029 | 0.00 |
| Mg | 24 | 2 | He | 3446520 | 0.00 |
| K | 39 | 2 | He | 6508704 | 0.00 |
| Mn | 55 | 2 | He | 328075 | 0.00 |
| Co | 59 | 2 | He | 504037 | 0.00 |
| Ni | 60 | 2 | He | 124989 | 0.00 |
| Cu | 63 | 2 | He | 300731 | 0.00 |
| Zn | 66 | 2 | He | 72714 | 0.00 |
| Al | 27 | 2 | He | 28256 | 0.01 |
| B | 11 | 1 | No Gas | 539390 | 0.00 |
| Al | 27 | 1 | No Gas | 915609 | 0.00 |
| Si | 28 | 1 | No Gas | 3031821 | 0.00 |
| Ag | 107 | 1 | No Gas | 988446 | 0.00 |
| Cd | 111 | 1 | No Gas | 193582 | 0.00 |
| Sr | 88 | 1 | No Gas | 2112393 | 0.00 |
| Mo | 95 | 1 | No Gas | 398413 | 0.00 |
| Sn | 118 | 1 | No Gas | 608863 | 0.00 |
| Sb | 121 | 1 | No Gas | 893964 | 0.00 |
| Ba | 137 | 1 | No Gas | 355213 | 0.00 |
| Tl | 205 | 1 | No Gas | 1345678 | 0.00 |
| Tl | 203 | 1 | No Gas | 570289 | 0.00 |
| Pb | 208 | 1 | No Gas | 1939669 | 0.00 |
| U | 238 | 1 | No Gas | 1742029 | 0.00 |
| Ca | 43 | 2 | He | 17408 | 0.02 |
| Sb | 121 | 2 | He | 431110 | 0.00 |
| Cu | 63 | 1 | No Gas | 702892 | 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 | 447478 | 1.62 | 471023 | 95.00 | 70 | 120 | |
| Ge | 72 | 2 | He | 457699 | 0.84 | 472743 | 96.82 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1516058 | 2.35 | 1532243 | 98.94 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1716692 | 3.66 | 1782326 | 96.32 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1216568 | 1.36 | 1201520 | 101.25 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 200/1000/20K |
| Data File Name | 090CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:29:52-05:00 |
| Sample Type | CalStd |
| Level | 6 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 378842 | 0.00 |
| V | 51 | 2 | He | 702976 | 0.00 |
| Cr | 52 | 2 | He | 743697 | 0.00 |
| Fe | 56 | 2 | He | 64400254 | 0.00 |
| Se | 78 | 2 | He | 15363 | 0.01 |
| As | 75 | 2 | He | 139929 | 0.00 |
| Ca | 44 | 2 | He | 569717 | 0.00 |
| Na | 23 | 2 | He | 10975426 | 0.00 |
| Mg | 24 | 2 | He | 6500638 | 0.00 |
| K | 39 | 2 | He | 12029114 | 0.00 |
| Mn | 55 | 2 | He | 625804 | 0.00 |
| Co | 59 | 2 | He | 965109 | 0.00 |
| Ni | 60 | 2 | He | 235478 | 0.00 |
| Cu | 63 | 2 | He | 575913 | 0.00 |
| Zn | 66 | 2 | He | 138078 | 0.00 |
| Al | 27 | 2 | He | 52489 | 0.00 |
| B | 11 | 1 | No Gas | 892705 | 0.00 |
| Al | 27 | 1 | No Gas | 1721783 | 0.00 |
| Si | 28 | 1 | No Gas | 5284707 | 0.00 |
| Ag | 107 | 1 | No Gas | 1885122 | 0.00 |
| Cd | 111 | 1 | No Gas | 379398 | 0.00 |
| Sr | 88 | 1 | No Gas | 3980453 | 0.00 |
| Mo | 95 | 1 | No Gas | 785065 | 0.00 |
| Sn | 118 | 1 | No Gas | 1178736 | 0.00 |
| Sb | 121 | 1 | No Gas | 1730429 | 0.00 |
| Ba | 137 | 1 | No Gas | 692185 | 0.00 |
| Tl | 205 | 1 | No Gas | 2599721 | 0.00 |
| Tl | 203 | 1 | No Gas | 1069018 | 0.00 |
| Pb | 208 | 1 | No Gas | 3810794 | 0.00 |
| U | 238 | 1 | No Gas | 3494943 | 0.00 |
| Ca | 43 | 2 | He | 34209 | 0.01 |
| Sb | 121 | 2 | He | 853259 | 0.00 |
| Cu | 63 | 1 | No Gas | 1316742 | 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 | 431923 | 1.63 | 471023 | 91.70 | 70 | 120 | |
| Ge | 72 | 2 | He | 440981 | 1.38 | 472743 | 93.28 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1457867 | 4.04 | 1532243 | 95.15 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1680846 | 2.97 | 1782326 | 94.31 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1181656 | 1.10 | 1201520 | 98.35 | 70 | 120 | |

# Initial Calibration Blank (ICB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICCB |
| Data File Name | 095_ICB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:39:43-05:00 |
| Sample Type | ICB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.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 | 0.098 | 42.9 | 31600 | 0.6 | 0.5 | |
| Be | 9 | 1 | No Gas | 0.038 | 28.4 | 107 | 21.7 | 0.5 | |
| V | 51 | 2 | He | -1.081 | -4.4 | 10082 | 2.2 | 2.5 | |
| Cr | 52 | 2 | He | 0.292 | 11.8 | 15008 | 1.8 | 2.5 | |
| Fe | 56 | 2 | He | -6.648 | -2.6 | 21971 | 1.7 | 100 | |
| Se | 78 | 2 | He | -0.214 | -250.7 | 195 | 20.8 | 1 | |
| As | 75 | 2 | He | -0.068 | -69.0 | 382 | 8.1 | 2.5 | |
| Ca | 44 | 2 | He | 5.980 | 40.4 | 787 | 9.4 | 100 | |
| Na | 23 | 2 | He | 5.385 | 24.2 | 37878 | 2.1 | 100 | |
| Mg | 24 | 2 | He | 0.111 | 133.4 | 1974 | 1.8 | 100 | |
| K | 39 | 2 | He | -18.174 | -10.8 | 250159 | 0.7 | 100 | |
| Mn | 55 | 2 | He | 0.072 | 25.0 | 593 | 9.6 | 2.5 | |
| Co | 59 | 2 | He | 0.009 | 85.5 | 97 | 39.2 | 2.5 | |
| Ni | 60 | 2 | He | 0.062 | 57.4 | 410 | 10.6 | 2.5 | |
| Cu | 63 | 2 | He | 0.033 | 77.0 | 320 | 25.0 | 1 | |
| Zn | 66 | 2 | He | 0.316 | 8.4 | 527 | 2.9 | 2.5 | |
| Al | 27 | 2 | He | 0.570 | 98.9 | 1257 | 12.1 | 5 | |
| B | 11 | 1 | No Gas | 3.508 | 11.6 | 10789 | 3.5 | 0.5 | ICB Main CR1 Failed |
| Al | 27 | 1 | No Gas | 0.132 | 12.2 | 39135 | 1.7 | 5 | |
| Si | 28 | 1 | No Gas | -1.764 | -37.0 | 399348 | 0.7 | 10 | |
| Ag | 107 | 1 | No Gas | -0.065 | -2.5 | 170 | 11.8 | 2.5 | |
| Cd | 111 | 1 | No Gas | -0.009 | -217.5 | -29 | -136.5 | 1 | |
| Sr | 88 | 1 | No Gas | 0.009 | 60.8 | 1577 | 8.6 | 2.5 | |
| Mo | 95 | 1 | No Gas | -0.064 | -28.8 | 420 | 18.6 | 2.5 | |
| Sn | 118 | 1 | No Gas | 0.066 | 9.3 | 1620 | 2.5 | 5 | |
| Sb | 121 | 1 | No Gas | -0.037 | -5.4 | 413 | 5.0 | 2.5 | |
| Ba | 137 | 1 | No Gas | 0.096 | 15.6 | 567 | 10.6 | 2.5 | |
| Tl | 205 | 1 | No Gas | -0.001 | -124.9 | 577 | 2.0 | 1 | |
| Tl | 203 | 1 | No Gas | -0.004 | -185.3 | 200 | 18.0 | 1 | |
| Pb | 208 | 1 | No Gas | 0.000 | -2329.7 | 777 | 5.4 | 2.5 | |
| U | 238 | 1 | No Gas | -0.017 | -7.7 | 80 | 33.1 | 2.5 | |
| Ca | 43 | 2 | He | -6.521 | -151.8 | 50 | 34.6 | 100 | |
| Sb | 121 | 2 | He | -0.034 | -34.7 | 200 | 26.0 | 2.5 | |
| Ti | 47 | 2 | He | -0.063 | -102.7 | 10 | 100.0 | 2.5 | |
| Se | 82 | 1 | No Gas | -0.851 | -39.4 | 119 | 45.0 | 1 | |

**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 | 466101 | 1.35 | 471023 | 98.96 | 70 | 120 | |
| Ge | 72 | 2 | He | 463410 | 1.07 | 472743 | 98.03 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1557082 | 1.53 | 1532243 | 101.62 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1809790 | 1.89 | 1782326 | 101.54 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1284080 | 2.04 | 1201520 | 106.87 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LLCCV2 |
| Data File Name | 097LCV2.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:45:45-05:00 |
| Sample Type | LLCCV2 |
| Dilution | 1 |
| Comment | |
| ISTD Ref FileName | 085CALB.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 | 1.976 | 1.976 | 4.97 | 43193 | 0.00 | 2 | |
| Be | 9 | 1 | No Gas | 1.922 | 1.922 | 6.18 | 3974 | 0.05 | 2 | |
| V | 51 | 2 | He | 1.210 | 1.210 | 6.92 | 18765 | 0.01 | 2 | NewName Main CR1 Failed |
| Cr | 52 | 2 | He | 2.068 | 2.068 | 2.01 | 22302 | 0.01 | 2 | |
| Fe | 56 | 2 | He | 201.166 | 201.166 | 1.79 | 739914 | 0.03 | 200 | |
| Se | 78 | 2 | He | 1.644 | 1.644 | 7.82 | 351 | 0.47 | 2 | |
| As | 75 | 2 | He | 1.907 | 1.907 | 8.94 | 1869 | 0.10 | 2 | |
| Ca | 44 | 2 | He | 196.304 | 196.304 | 3.19 | 6615 | 2.97 | 200 | |
| Na | 23 | 2 | He | 213.966 | 213.966 | 2.35 | 161485 | 0.13 | 200 | |
| Mg | 24 | 2 | He | 217.247 | 217.247 | 2.68 | 78088 | 0.28 | 200 | |
| K | 39 | 2 | He | 184.748 | 184.748 | 5.54 | 384347 | 0.05 | 200 | |
| Mn | 55 | 2 | He | 1.988 | 1.988 | 5.50 | 7049 | 0.03 | 2 | |
| Co | 59 | 2 | He | 2.029 | 2.029 | 0.81 | 10574 | 0.02 | 2 | |
| Ni | 60 | 2 | He | 1.849 | 1.849 | 7.27 | 2684 | 0.07 | 2 | |
| Cu | 63 | 2 | He | 2.028 | 2.028 | 1.79 | 6495 | 0.03 | 2 | |
| Zn | 66 | 2 | He | 1.884 | 1.884 | 6.02 | 1700 | 0.11 | 2 | |
| Al | 27 | 2 | He | 1.124 | 1.124 | 47.93 | 1437 | 0.08 | 2 | NewName Main CR1 Failed |
| B | 11 | 1 | No Gas | 12.369 | 12.369 | 2.87 | 20709 | 0.06 | 10 | |
| Al | 27 | 1 | No Gas | 1.678 | 1.678 | 14.46 | 53234 | 0.00 | 2 | |
| Si | 28 | 1 | No Gas | 4.658 | 4.658 | 45.68 | 434696 | 0.00 | 10 | NewName Main CR1 Failed |
| Ag | 107 | 1 | No Gas | 1.886 | 1.886 | 2.03 | 20272 | 0.01 | 2 | |
| Cd | 111 | 1 | No Gas | 1.900 | 1.900 | 2.78 | 3908 | 0.05 | 2 | |
| Sr | 88 | 1 | No Gas | 1.983 | 1.983 | 2.41 | 44638 | 0.00 | 2 | |
| Mo | 95 | 1 | No Gas | 1.817 | 1.817 | 2.07 | 8436 | 0.02 | 2 | |
| Sn | 118 | 1 | No Gas | 1.875 | 1.875 | 4.76 | 13244 | 0.01 | 2 | |
| Sb | 121 | 1 | No Gas | 1.836 | 1.836 | 5.53 | 17766 | 0.01 | 2 | |
| Ba | 137 | 1 | No Gas | 1.833 | 1.833 | 5.21 | 7112 | 0.03 | 2 | |
| Tl | 205 | 1 | No Gas | 2.000 | 2.000 | 2.23 | 29184 | 0.01 | 2 | |
| Tl | 203 | 1 | No Gas | 2.062 | 2.062 | 3.65 | 12420 | 0.02 | 2 | |
| Pb | 208 | 1 | No Gas | 1.891 | 1.891 | 0.83 | 40266 | 0.00 | 2 | |
| U | 238 | 1 | No Gas | 1.817 | 1.817 | 2.91 | 35057 | 0.01 | 2 | |
| Ca | 43 | 2 | He | 155.403 | 155.403 | 6.95 | 347 | 44.83 | 200 | |
| Sb | 121 | 2 | He | 1.802 | 1.802 | 3.06 | 8563 | 0.02 | 2 | |
| Ti | 47 | 2 | He | 2.058 | 2.058 | 29.36 | 343 | 0.60 | 200 | |
| Cu | 63 | 1 | No Gas | 2.018 | 2.018 | 3.66 | 15439 | 0.01 | 2 | |
| Se | 82 | 1 | No Gas | 1.892 | 1.892 | 16.85 | 546 | 0.35 | 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 | 467992 | 0.48 | 471023 | 99.36 | 70 | 120 | |
| Ge | 72 | 2 | He | 473260 | 0.37 | 472743 | 100.11 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1562922 | 2.65 | 1532243 | 102.00 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1827326 | 0.89 | 1782326 | 102.52 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1298059 | 0.66 | 1201520 | 108.03 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LLCCV5 |
| Data File Name | 098LCV5.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:47:38-05:00 |
| Sample Type | LLCCV5 |
| Dilution | 1 |
| Comment | |
| ISTD Ref FileName | 085CALB.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 | 4.787 | 4.787 | 2.77 | 60558 | 0.01 | 5 | |
| Be | 9 | 1 | No Gas | 4.758 | 4.758 | 2.78 | 9828 | 0.05 | 5 | |
| V | 51 | 2 | He | 4.300 | 4.300 | 2.08 | 29846 | 0.01 | 5 | |
| Cr | 52 | 2 | He | 5.248 | 5.248 | 5.31 | 34387 | 0.02 | 5 | |
| Fe | 56 | 2 | He | 507.527 | 507.527 | 1.39 | 1777350 | 0.03 | 500 | |
| Se | 78 | 2 | He | 4.854 | 4.854 | 2.25 | 605 | 0.80 | 5 | |
| As | 75 | 2 | He | 4.823 | 4.823 | 2.52 | 4006 | 0.12 | 5 | |
| Ca | 44 | 2 | He | 492.602 | 492.602 | 3.92 | 15482 | 3.18 | 500 | |
| Na | 23 | 2 | He | 536.678 | 536.678 | 1.49 | 347527 | 0.15 | 500 | |
| Mg | 24 | 2 | He | 552.127 | 552.127 | 1.49 | 193201 | 0.29 | 500 | |
| K | 39 | 2 | He | 503.191 | 503.191 | 1.68 | 579971 | 0.09 | 500 | |
| Mn | 55 | 2 | He | 4.985 | 4.985 | 2.45 | 16934 | 0.03 | 5 | |
| Co | 59 | 2 | He | 4.986 | 4.986 | 0.85 | 25618 | 0.02 | 5 | |
| Ni | 60 | 2 | He | 4.970 | 4.970 | 6.84 | 6565 | 0.08 | 5 | |
| Cu | 63 | 2 | He | 5.078 | 5.078 | 4.57 | 15746 | 0.03 | 5 | |
| Zn | 66 | 2 | He | 4.486 | 4.486 | 10.80 | 3591 | 0.12 | 5 | |
| Al | 27 | 2 | He | 3.797 | 3.797 | 6.70 | 2154 | 0.18 | 5 | |
| B | 11 | 1 | No Gas | 26.142 | 26.142 | 1.13 | 36173 | 0.07 | 25 | |
| Al | 27 | 1 | No Gas | 4.075 | 4.075 | 8.89 | 75927 | 0.01 | 5 | |
| Si | 28 | 1 | No Gas | 21.091 | 21.091 | 12.77 | 528850 | 0.00 | 25 | |
| Ag | 107 | 1 | No Gas | 4.942 | 4.942 | 1.76 | 52022 | 0.01 | 5 | |
| Cd | 111 | 1 | No Gas | 4.695 | 4.695 | 3.33 | 9727 | 0.05 | 5 | |
| Sr | 88 | 1 | No Gas | 4.986 | 4.986 | 1.43 | 110701 | 0.00 | 5 | |
| Mo | 95 | 1 | No Gas | 4.579 | 4.579 | 1.26 | 20309 | 0.02 | 5 | |
| Sn | 118 | 1 | No Gas | 4.881 | 4.881 | 4.86 | 32716 | 0.01 | 5 | |
| Sb | 121 | 1 | No Gas | 4.764 | 4.764 | 3.36 | 45493 | 0.01 | 5 | |
| Ba | 137 | 1 | No Gas | 4.723 | 4.723 | 2.24 | 18086 | 0.03 | 5 | |
| Tl | 205 | 1 | No Gas | 5.169 | 5.169 | 1.31 | 73690 | 0.01 | 5 | |
| Tl | 203 | 1 | No Gas | 5.327 | 5.327 | 3.89 | 31380 | 0.02 | 5 | |
| Pb | 208 | 1 | No Gas | 4.834 | 4.834 | 2.24 | 100649 | 0.00 | 5 | |
| U | 238 | 1 | No Gas | 4.684 | 4.684 | 1.28 | 88797 | 0.01 | 5 | |
| Ca | 43 | 2 | He | 468.107 | 468.107 | 5.17 | 907 | 51.63 | 500 | |
| Sb | 121 | 2 | He | 4.647 | 4.647 | 3.62 | 21268 | 0.02 | 5 | |
| Ti | 47 | 2 | He | 4.719 | 4.719 | 11.48 | 753 | 0.63 | 5 | |
| Cu | 63 | 1 | No Gas | 4.966 | 4.966 | 4.08 | 36850 | 0.01 | 5 | |
| Se | 82 | 1 | No Gas | 4.479 | 4.479 | 10.24 | 962 | 0.47 | 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 | 469525 | 0.58 | 471023 | 99.68 | 70 | 120 | |
| Ge | 72 | 2 | He | 467930 | 0.81 | 472743 | 98.98 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1584530 | 3.10 | 1532243 | 103.41 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1836715 | 1.60 | 1782326 | 103.05 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1284637 | 1.88 | 1201520 | 106.92 | 70 | 120 | |

# Initial Calibration Verification (ICV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICCV |
| Data File Name | 099_ICV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:49:29-05:00 |
| Sample Type | ICV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| Sample QC Pass/Fail | Pass |
| 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 | 99.606 | 1.689 | 613334 | 0.55 | 100 | 99.6 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 100.371 | 2.053 | 197675 | 1.08 | 100 | 100.4 | 90 | 110 | |
| V | 51 | 2 | He | 100.189 | 1.581 | 374422 | 0.23 | 100 | 100.2 | 90 | 110 | |
| Cr | 52 | 2 | He | 101.420 | 0.754 | 401428 | 1.04 | 100 | 101.4 | 90 | 110 | |
| Fe | 56 | 2 | He | 10085.837 | 1.499 | 33940057 | 0.59 | 10000 | 100.9 | 90 | 110 | |
| Se | 78 | 2 | He | 104.246 | 2.111 | 8458 | 1.63 | 100 | 104.2 | 90 | 110 | |
| As | 75 | 2 | He | 102.072 | 1.867 | 74785 | 0.52 | 100 | 102.1 | 90 | 110 | |
| Ca | 44 | 2 | He | 10147.622 | 1.874 | 302186 | 0.51 | 10000 | 101.5 | 90 | 110 | |
| Na | 23 | 2 | He | 10257.804 | 0.322 | 5914181 | 1.51 | 10000 | 102.6 | 90 | 110 | |
| Mg | 24 | 2 | He | 10252.135 | 1.309 | 3498449 | 1.33 | 10000 | 102.5 | 90 | 110 | |
| K | 39 | 2 | He | 10235.046 | 2.746 | 6586608 | 1.39 | 10000 | 102.4 | 90 | 110 | |
| Mn | 55 | 2 | He | 101.911 | 0.588 | 333987 | 0.87 | 100 | 101.9 | 90 | 110 | |
| Co | 59 | 2 | He | 101.419 | 2.270 | 511946 | 1.21 | 100 | 101.4 | 90 | 110 | |
| Ni | 60 | 2 | He | 101.478 | 2.253 | 125507 | 0.79 | 100 | 101.5 | 90 | 110 | |
| Cu | 63 | 2 | He | 102.455 | 0.982 | 308705 | 0.48 | 100 | 102.5 | 90 | 110 | |
| Zn | 66 | 2 | He | 101.447 | 1.330 | 73508 | 0.89 | 100 | 101.4 | 90 | 110 | |
| Al | 27 | 2 | He | 103.230 | 2.398 | 28930 | 0.87 | 100 | 103.2 | 90 | 110 | |
| B | 11 | 1 | No Gas | 510.929 | 0.965 | 552792 | 1.29 | 500 | 102.2 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 99.103 | 1.708 | 928936 | 1.86 | 100 | 99.1 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 508.059 | 1.961 | 3081438 | 1.86 | 500 | 101.6 | 90 | 110 | |
| Ag | 107 | 1 | No Gas | 99.200 | 0.769 | 1004466 | 0.45 | 100 | 99.2 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 97.417 | 1.735 | 197334 | 1.05 | 100 | 97.4 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 98.796 | 1.696 | 2117513 | 1.05 | 100 | 98.8 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 96.406 | 1.746 | 403950 | 1.09 | 100 | 96.4 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 99.084 | 1.412 | 625646 | 0.69 | 100 | 99.1 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 99.479 | 1.172 | 916792 | 1.36 | 100 | 99.5 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 97.020 | 1.329 | 359013 | 0.66 | 100 | 97.0 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 98.986 | 0.686 | 1376601 | 0.33 | 100 | 99.0 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 101.548 | 2.177 | 584265 | 1.34 | 100 | 101.5 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 97.329 | 0.685 | 1977558 | 1.39 | 100 | 97.3 | 90 | 110 | |
| U | 238 | 1 | No Gas | 97.167 | 1.192 | 1802737 | 0.32 | 100 | 97.2 | 90 | 110 | |
| Ca | 43 | 2 | He | 10004.613 | 0.948 | 17832 | 0.68 | 10000 | 100.0 | 90 | 110 | |
| Sb | 121 | 2 | He | 99.210 | 1.608 | 439962 | 0.77 | 100 | 99.2 | 90 | 110 | |
| Ti | 47 | 2 | He | 104.899 | 1.902 | 16063 | 0.93 | 100 | 104.9 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 101.314 | 0.719 | 715707 | 0.86 | 100 | 101.3 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 98.747 | 4.015 | 15548 | 4.13 | 100 | 98.7 | 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 | 449000 | 1.26 | 471023 | 95.32 | 70 | 120 | |
| Ge | 72 | 2 | He | 460727 | 1.45 | 472743 | 97.46 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1553093 | 0.27 | 1532243 | 101.36 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1794489 | 0.74 | 1782326 | 100.68 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1262616 | 0.87 | 1201520 | 105.08 | 70 | 120 | |

# Continuing Calibration Verification (CCV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCV |
| Data File Name | 174_CCV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:34:12-05:00 |
| Sample Type | CCV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| n | 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 | 98.279 | 15.544 | 571177 | 1.71 | 100 | 98.3 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 100.141 | 17.481 | 185557 | 4.52 | 100 | 100.1 | 90 | 110 | |
| V | 51 | 2 | He | 95.368 | 1.415 | 352409 | 1.06 | 100 | 95.4 | 90 | 110 | |
| Cr | 52 | 2 | He | 102.965 | 0.769 | 401985 | 0.56 | 100 | 103.0 | 90 | 110 | |
| Fe | 56 | 2 | He | 9644.835 | 1.137 | 32035228 | 1.43 | 10000 | 96.4 | 90 | 110 | |
| Se | 78 | 2 | He | 97.518 | 2.110 | 7822 | 2.12 | 100 | 97.5 | 90 | 110 | |
| As | 75 | 2 | He | 96.010 | 1.154 | 69451 | 0.48 | 100 | 96.0 | 90 | 110 | |
| Ca | 44 | 2 | He | 9595.454 | 0.243 | 282061 | 0.49 | 10000 | 96.0 | 90 | 110 | |
| Na | 23 | 2 | He | 9830.511 | 1.345 | 5594544 | 1.36 | 10000 | 98.3 | 90 | 110 | |
| Mg | 24 | 2 | He | 9677.774 | 1.427 | 3259468 | 2.00 | 10000 | 96.8 | 90 | 110 | |
| K | 39 | 2 | He | 9488.853 | 1.718 | 6046373 | 2.08 | 10000 | 94.9 | 90 | 110 | |
| Mn | 55 | 2 | He | 97.313 | 1.455 | 314746 | 1.37 | 100 | 97.3 | 90 | 110 | |
| Co | 59 | 2 | He | 96.483 | 1.579 | 480689 | 1.19 | 100 | 96.5 | 90 | 110 | |
| Ni | 60 | 2 | He | 103.510 | 0.746 | 126355 | 0.93 | 100 | 103.5 | 90 | 110 | |
| Cu | 63 | 2 | He | 97.749 | 0.767 | 290690 | 1.20 | 100 | 97.7 | 90 | 110 | |
| Zn | 66 | 2 | He | 100.033 | 1.088 | 71538 | 0.53 | 100 | 100.0 | 90 | 110 | |
| Al | 27 | 2 | He | 103.087 | 1.594 | 28520 | 2.19 | 100 | 103.1 | 90 | 110 | |
| B | 11 | 1 | No Gas | 503.786 | 16.714 | 513275 | 3.73 | 500 | 100.8 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 104.802 | 17.466 | 942507 | 5.11 | 100 | 104.8 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 619.656 | 15.473 | 3537003 | 2.19 | 5000 | 12.4 | 90 | 110 | CCV Main CR1-2 Failed |
| Ag | 107 | 1 | No Gas | 98.377 | 18.238 | 961321 | 4.47 | 100 | 98.4 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 96.806 | 19.421 | 189014 | 5.27 | 100 | 96.8 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 98.566 | 16.985 | 2041400 | 3.29 | 100 | 98.6 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 94.881 | 19.422 | 383226 | 5.20 | 100 | 94.9 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 99.389 | 19.822 | 604713 | 6.13 | 100 | 99.4 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 101.162 | 17.711 | 895715 | 5.64 | 100 | 101.2 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 98.514 | 19.273 | 351441 | 5.55 | 100 | 98.5 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 93.588 | 19.913 | 1304516 | 6.98 | 100 | 93.6 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 96.367 | 19.105 | 556304 | 7.23 | 100 | 96.4 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 96.224 | 18.728 | 1961797 | 6.43 | 100 | 96.2 | 90 | 110 | |
| U | 238 | 1 | No Gas | 99.218 | 19.164 | 1846312 | 6.31 | 100 | 99.2 | 90 | 110 | |
| Ca | 43 | 2 | He | 9551.355 | 2.655 | 16804 | 2.65 | 10000 | 95.5 | 90 | 110 | |
| Sb | 121 | 2 | He | 97.054 | 0.475 | 424794 | 0.51 | 100 | 97.1 | 90 | 110 | |
| Ti | 47 | 2 | He | 96.250 | 0.935 | 14548 | 0.48 | 100 | 96.2 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 98.382 | 15.880 | 668854 | 4.08 | 100 | 98.4 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 95.953 | 18.133 | 14520 | 5.15 | 100 | 96.0 | 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 | 429272 | 13.85 | 471023 | 91.14 | 70 | 120 | |
| Ge | 72 | 2 | He | 454661 | 0.67 | 472743 | 96.18 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1515349 | 12.99 | 1532243 | 98.90 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1763830 | 15.03 | 1782326 | 98.96 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1288856 | 13.71 | 1201520 | 107.27 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCB |
| Data File Name | 175_CCB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:36:01-05:00 |
| Sample Type | CCB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.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 | 0.016 | 243.3 | 29107 | 0.0 | 0.5 | |
| Be | 9 | 1 | No Gas | 0.039 | 4.3 | 102 | 2.8 | 0.5 | |
| V | 51 | 2 | He | -0.645 | -7.5 | 11434 | 1.7 | 2.5 | |
| Cr | 52 | 2 | He | 0.150 | 153.7 | 14188 | 6.5 | 2.5 | |
| Fe | 56 | 2 | He | -6.666 | -4.4 | 21490 | 4.3 | 100 | |
| Se | 78 | 2 | He | -0.630 | -30.4 | 159 | 9.6 | 2 | |
| As | 75 | 2 | He | 0.019 | 366.5 | 438 | 11.3 | 2.5 | |
| Ca | 44 | 2 | He | -6.343 | -33.6 | 410 | 14.8 | 100 | |
| Na | 23 | 2 | He | 189.093 | 1.4 | 141014 | 0.7 | 100 | CCB Main CR1 Failed |
| Mg | 24 | 2 | He | -1.094 | -8.5 | 1530 | 2.4 | 100 | |
| K | 39 | 2 | He | -36.219 | -9.3 | 234331 | 0.5 | 100 | |
| Mn | 55 | 2 | He | 0.044 | 12.0 | 490 | 3.5 | 2.5 | |
| Co | 59 | 2 | He | 0.000 | -683.0 | 50 | 20.0 | 2.5 | |
| Ni | 60 | 2 | He | -0.055 | -104.6 | 260 | 26.6 | 2.5 | |
| Cu | 63 | 2 | He | 0.046 | 12.1 | 350 | 4.9 | 2 | |
| Zn | 66 | 2 | He | 0.166 | 86.8 | 410 | 25.3 | 2.5 | |
| Al | 27 | 2 | He | -1.096 | -99.4 | 790 | 37.0 | 5 | |
| B | 11 | 1 | No Gas | 3.926 | 13.4 | 10532 | 4.5 | 0.5 | CCB Main CR1 Failed |
| Al | 27 | 1 | No Gas | -2.123 | -2.9 | 18349 | 3.9 | 5 | |
| Si | 28 | 1 | No Gas | -12.831 | -8.6 | 332573 | 0.7 | 10 | |
| Ag | 107 | 1 | No Gas | -0.066 | -4.1 | 163 | 15.4 | 2.5 | |
| Cd | 111 | 1 | No Gas | 0.013 | 54.9 | 16 | 92.6 | 1 | |
| Sr | 88 | 1 | No Gas | -0.020 | -7.7 | 947 | 4.3 | 2.5 | |
| Mo | 95 | 1 | No Gas | 0.006 | 563.1 | 723 | 18.9 | 2.5 | |
| Sn | 118 | 1 | No Gas | 0.073 | 34.4 | 1687 | 10.4 | 5 | |
| Sb | 121 | 1 | No Gas | -0.017 | -10.9 | 580 | 3.4 | 2.5 | |
| Ba | 137 | 1 | No Gas | 0.020 | 46.1 | 283 | 13.4 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.644 | 43.1 | 10141 | 39.0 | 1 | |
| Tl | 203 | 1 | No Gas | 0.671 | 42.8 | 4338 | 39.1 | 1 | |
| Pb | 208 | 1 | No Gas | 0.015 | 18.4 | 1137 | 7.1 | 2.5 | |
| U | 238 | 1 | No Gas | -0.001 | -285.3 | 400 | 13.9 | 2.5 | |
| Ca | 43 | 2 | He | -17.435 | -33.0 | 30 | 33.3 | 100 | |
| Sb | 121 | 2 | He | -0.019 | -31.4 | 260 | 10.2 | 2.5 | |
| Ti | 47 | 2 | He | -0.039 | -99.1 | 13 | 43.3 | 2.5 | |
| Cu | 63 | 1 | No Gas | 0.329 | 7.4 | 3367 | 7.0 | 2.5 | |
| Se | 82 | 1 | No Gas | -0.920 | -37.7 | 105 | 52.2 | 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 | 436247 | 0.73 | 471023 | 92.62 | 70 | 120 | |
| Ge | 72 | 2 | He | 454471 | 0.36 | 472743 | 96.14 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1518981 | 2.01 | 1532243 | 99.13 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1830428 | 1.47 | 1782326 | 102.70 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1349044 | 2.21 | 1201520 | 112.28 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | MBLK-196608 |
| Data File Name | 176SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:37:59-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | -0.087 | -0.087 | -59.91 | 28706 | 0.00 | 2000 | |
| Be | 9 | 1 | No Gas | 0.011 | 0.011 | 62.66 | 50 | 0.02 | 2000 | |
| V | 51 | 2 | He | -0.447 | -0.447 | -12.13 | 12178 | 0.00 | 2000 | |
| Cr | 52 | 2 | He | 0.067 | 0.067 | 291.58 | 13914 | 0.00 | 2000 | |
| Fe | 56 | 2 | He | -7.262 | -7.262 | -2.05 | 19578 | -0.04 | 200000 | |
| Se | 78 | 2 | He | -0.245 | -0.245 | -51.92 | 190 | -0.13 | 2000 | |
| As | 75 | 2 | He | -0.043 | -0.043 | -52.57 | 394 | -0.01 | 2000 | |
| Ca | 44 | 2 | He | 5.181 | 5.181 | 48.85 | 750 | 0.69 | 200000 | |
| Na | 23 | 2 | He | 179.722 | 179.722 | 3.20 | 136163 | 0.13 | 200000 | |
| Mg | 24 | 2 | He | -0.713 | -0.713 | -32.75 | 1663 | -0.04 | 200000 | |
| K | 39 | 2 | He | -42.033 | -42.033 | -21.45 | 231543 | -0.02 | 200000 | |
| Mn | 55 | 2 | He | 0.007 | 0.007 | 119.63 | 373 | 0.00 | 2000 | |
| Co | 59 | 2 | He | 0.006 | 0.006 | 112.41 | 83 | 0.01 | 2000 | |
| Ni | 60 | 2 | He | -0.102 | -0.102 | -64.04 | 203 | -0.05 | 2000 | |
| Cu | 63 | 2 | He | -0.001 | -0.001 | -629.50 | 213 | 0.00 | 2000 | |
| Zn | 66 | 2 | He | 0.175 | 0.175 | 100.26 | 417 | 0.04 | 2000 | |
| Al | 27 | 2 | He | 0.155 | 0.155 | 316.36 | 1127 | 0.01 | 2000 | |
| B | 11 | 1 | No Gas | 1.883 | 1.883 | 16.79 | 8468 | 0.02 | 2000 | |
| Al | 27 | 1 | No Gas | -0.349 | -0.349 | -29.44 | 34817 | 0.00 | 2000 | |
| Si | 28 | 1 | No Gas | -13.633 | -13.633 | -5.67 | 336928 | 0.00 | 2000 | |
| Ag | 107 | 1 | No Gas | -0.068 | -0.068 | -4.23 | 147 | -0.05 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.008 | 0.008 | 66.32 | 6 | 0.14 | 2000 | |
| Sr | 88 | 1 | No Gas | 0.015 | 0.015 | 60.62 | 1750 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | -0.062 | -0.062 | -13.98 | 443 | -0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | -0.003 | -0.003 | -269.46 | 1220 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | -0.064 | -0.064 | -4.32 | 160 | -0.04 | 2000 | |
| Ba | 137 | 1 | No Gas | 0.028 | 0.028 | 45.64 | 320 | 0.01 | 2000 | |
| Tl | 205 | 1 | No Gas | 0.015 | 0.015 | 41.95 | 863 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 0.013 | 0.013 | 34.36 | 313 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | -0.005 | -0.005 | -17.60 | 717 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | -0.017 | -0.017 | -4.79 | 87 | -0.02 | 2000 | |
| Ca | 43 | 2 | He | 1.415 | 1.415 | 1228.65 | 63 | 2.23 | 200000 | |
| Sb | 121 | 2 | He | -0.056 | -0.056 | -7.62 | 100 | -0.06 | 2000 | |
| Ti | 47 | 2 | He | -0.084 | -0.084 | -45.49 | 7 | -1.25 | 2000 | |
| Cu | 63 | 1 | No Gas | 0.228 | 0.228 | 4.05 | 2737 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 0.187 | 0.187 | 31.92 | 1123 | 0.02 | 2000 | |
| Se | 82 | 1 | No Gas | 0.269 | 0.269 | 181.75 | 292 | 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 | 439054 | 1.16 | 471023 | 93.21 | 70 | 120 | |
| Ge | 72 | 2 | He | 456041 | 1.41 | 472743 | 96.47 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1557932 | 1.60 | 1532243 | 101.68 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1866676 | 2.77 | 1782326 | 104.73 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1362463 | 1.34 | 1201520 | 113.39 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LCS-196608 |
| Data File Name | 177SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:39:52-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 94.567 | 94.567 | 1.03 | 603564 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 47.485 | 47.485 | 0.74 | 96707 | 0.05 | 2000 | |
| V | 51 | 2 | He | 45.282 | 45.282 | 0.77 | 182681 | 0.02 | 2000 | |
| Cr | 52 | 2 | He | 46.516 | 46.516 | 1.55 | 197881 | 0.02 | 2000 | |
| Fe | 56 | 2 | He | 4746.351 | 4746.351 | 1.50 | 16521977 | 0.03 | 200000 | |
| Se | 78 | 2 | He | 47.316 | 47.316 | 1.38 | 4085 | 1.16 | 2000 | |
| As | 75 | 2 | He | 47.479 | 47.479 | 1.98 | 36169 | 0.13 | 2000 | |
| Ca | 44 | 2 | He | 4818.249 | 4818.249 | 3.11 | 148531 | 3.24 | 200000 | |
| Na | 23 | 2 | He | 5042.202 | 5042.202 | 2.08 | 3020495 | 0.17 | 200000 | |
| Mg | 24 | 2 | He | 4963.946 | 4963.946 | 2.00 | 1750572 | 0.28 | 200000 | |
| K | 39 | 2 | He | 4778.342 | 4778.342 | 1.90 | 3319739 | 0.14 | 200000 | |
| Mn | 55 | 2 | He | 46.645 | 46.645 | 2.16 | 158078 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 46.685 | 46.685 | 0.89 | 243463 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 47.499 | 47.499 | 2.46 | 60866 | 0.08 | 2000 | |
| Cu | 63 | 2 | He | 55.474 | 55.474 | 2.44 | 172743 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 54.191 | 54.191 | 1.92 | 40701 | 0.13 | 2000 | |
| Al | 27 | 2 | He | 102.466 | 102.466 | 2.01 | 29672 | 0.35 | 2000 | |
| B | 11 | 1 | No Gas | 474.483 | 474.483 | 0.49 | 531168 | 0.09 | 2000 | |
| Al | 27 | 1 | No Gas | 96.843 | 96.843 | 0.83 | 975235 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 480.877 | 480.877 | 2.24 | 3153541 | 0.02 | 2000 | |
| Ag | 107 | 1 | No Gas | 46.408 | 46.408 | 1.04 | 498155 | 0.01 | 2000 | |
| Cd | 111 | 1 | No Gas | 46.390 | 46.390 | 1.66 | 99528 | 0.05 | 2000 | |
| Sr | 88 | 1 | No Gas | 92.572 | 92.572 | 1.09 | 2101708 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 44.145 | 44.145 | 0.73 | 196318 | 0.02 | 2000 | |
| Sn | 118 | 1 | No Gas | 93.233 | 93.233 | 0.36 | 623611 | 0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | 46.765 | 46.765 | 1.07 | 462999 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 45.608 | 45.608 | 0.43 | 178865 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 40.688 | 40.688 | 1.14 | 630910 | 0.01 | 2000 | |
| Tl | 203 | 1 | No Gas | 40.605 | 40.605 | 1.50 | 260497 | 0.02 | 2000 | |
| Pb | 208 | 1 | No Gas | 46.289 | 46.289 | 1.50 | 1048356 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 94.211 | 94.211 | 1.96 | 1947619 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 4818.853 | 4818.853 | 4.05 | 8903 | 54.13 | 200000 | |
| Sb | 121 | 2 | He | 47.488 | 47.488 | 1.90 | 217713 | 0.02 | 2000 | |
| Ti | 47 | 2 | He | 141.219 | 141.219 | 0.17 | 22332 | 0.63 | 2000 | |
| Cu | 63 | 1 | No Gas | 54.407 | 54.407 | 1.15 | 413065 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 52.936 | 52.936 | 2.35 | 118907 | 0.04 | 2000 | |
| Se | 82 | 1 | No Gas | 46.322 | 46.322 | 5.73 | 7968 | 0.58 | 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 | 464144 | 0.76 | 471023 | 98.54 | 70 | 120 | |
| Ge | 72 | 2 | He | 475862 | 0.71 | 472743 | 100.66 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1667035 | 0.92 | 1532243 | 108.80 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1900552 | 0.43 | 1782326 | 106.63 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1406984 | 1.16 | 1201520 | 117.10 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060722-06SD |
| Data File Name | 179SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:43:42-05:00 |
| Sample Type | Sample |
| Dilution | 5 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 20.318 | 101.589 | 1.06 | 142875 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.015 | 0.073 | 108.67 | 55 | 0.03 | 2000 | |
| V | 51 | 2 | He | 3.670 | 18.350 | 2.29 | 27248 | 0.01 | 2000 | |
| Cr | 52 | 2 | He | 0.875 | 4.374 | 31.14 | 17234 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 19.660 | 98.301 | 1.64 | 110800 | 0.02 | 200000 | |
| Se | 78 | 2 | He | -0.097 | -0.487 | -97.93 | 205 | -0.05 | 2000 | |
| As | 75 | 2 | He | 0.123 | 0.615 | 10.25 | 522 | 0.02 | 2000 | |
| Ca | 44 | 2 | He | 23992.017 | 119960.084 | 1.32 | 717227 | 3.35 | 200000 | |
| Na | 23 | 2 | He | 64640.274 | 323201.372 | 0.53 | 37264194 | 0.17 | 200000 | |
| Mg | 24 | 2 | He | 11759.034 | 58795.169 | 1.98 | 4032323 | 0.29 | 200000 | |
| K | 39 | 2 | He | 115.615 | 578.073 | 5.23 | 333001 | 0.03 | 200000 | |
| Mn | 55 | 2 | He | 62.801 | 314.004 | 0.66 | 206955 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 0.391 | 1.953 | 2.16 | 2034 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 7.815 | 39.077 | 2.23 | 10020 | 0.08 | 2000 | |
| Cu | 63 | 2 | He | 0.253 | 1.267 | 31.82 | 983 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 1.609 | 8.047 | 9.52 | 1463 | 0.11 | 2000 | |
| Al | 27 | 2 | He | 5.845 | 29.227 | 15.47 | 2684 | 0.22 | 2000 | |
| B | 11 | 1 | No Gas | 6.827 | 34.137 | 1.63 | 13380 | 0.05 | 2000 | |
| Al | 27 | 1 | No Gas | 5.647 | 28.234 | 4.31 | 91425 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 2723.676 | 13618.380 | 3.20 | 15206148 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | -0.068 | -0.338 | -0.67 | 147 | -0.05 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.057 | 0.283 | 16.47 | 106 | 0.05 | 2000 | |
| Sr | 88 | 1 | No Gas | 540.660 | 2703.301 | 3.03 | 11803466 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.200 | 1.000 | 17.04 | 1550 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.009 | 0.047 | 248.88 | 1273 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | -0.050 | -0.251 | -6.21 | 300 | -0.02 | 2000 | |
| Ba | 137 | 1 | No Gas | 5.610 | 28.048 | 2.43 | 21355 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 0.028 | 0.139 | 24.49 | 1030 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 0.036 | 0.179 | 42.38 | 450 | 0.01 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.008 | 0.040 | 86.39 | 987 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.443 | 2.214 | 1.31 | 9130 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 24468.602 | 122343.012 | 3.69 | 43730 | 55.95 | 200000 | |
| Sb | 121 | 2 | He | -0.042 | -0.208 | -20.86 | 163 | -0.03 | 2000 | |
| Ti | 47 | 2 | He | 0.524 | 2.618 | 13.49 | 100 | 0.52 | 2000 | |
| Cu | 63 | 1 | No Gas | 1.230 | 6.149 | 5.29 | 10114 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 1.692 | 8.460 | 7.73 | 4381 | 0.04 | 2000 | |
| Se | 82 | 1 | No Gas | -0.724 | -3.621 | -100.87 | 142 | -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 | 430832 | 0.33 | 471023 | 91.47 | 70 | 120 | |
| Ge | 72 | 2 | He | 462934 | 0.99 | 472743 | 97.93 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1602839 | 2.41 | 1532243 | 104.61 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1829359 | 1.88 | 1782326 | 102.64 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1339223 | 1.54 | 1201520 | 111.46 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060722-06MS |
| Data File Name | 180SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:45:35-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 170.235 | 170.235 | 20.06 | 914223 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 50.860 | 50.860 | 20.87 | 89043 | 0.06 | 2000 | |
| V | 51 | 2 | He | 50.199 | 50.199 | 2.38 | 188425 | 0.03 | 2000 | |
| Cr | 52 | 2 | He | 51.108 | 51.108 | 2.24 | 202543 | 0.03 | 2000 | |
| Fe | 56 | 2 | He | 4978.517 | 4978.517 | 3.22 | 16245830 | 0.03 | 200000 | |
| Se | 78 | 2 | He | 49.880 | 49.880 | 3.19 | 4026 | 1.24 | 2000 | |
| As | 75 | 2 | He | 49.577 | 49.577 | 2.12 | 35396 | 0.14 | 2000 | |
| Ca | 44 | 2 | He | 133268.354 | 133268.354 | 3.48 | 3836380 | 3.47 | 200000 | |
| Na | 23 | 2 | He | 350971.103 | 350971.103 | 0.93 | 194874030 | 0.18 | 200000 | >LDR |
| Mg | 24 | 2 | He | 67945.167 | 67945.167 | 1.20 | 22446944 | 0.30 | 200000 | |
| K | 39 | 2 | He | 5514.132 | 5514.132 | 2.42 | 3553466 | 0.16 | 200000 | |
| Mn | 55 | 2 | He | 391.361 | 391.361 | 1.56 | 1241255 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 49.189 | 49.189 | 3.31 | 240497 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 85.915 | 85.915 | 1.75 | 102977 | 0.08 | 2000 | |
| Cu | 63 | 2 | He | 48.265 | 48.265 | 3.14 | 140941 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 51.832 | 51.832 | 2.55 | 36513 | 0.14 | 2000 | |
| Al | 27 | 2 | He | 130.391 | 130.391 | 2.76 | 35115 | 0.37 | 2000 | |
| B | 11 | 1 | No Gas | 528.318 | 528.318 | 19.80 | 508498 | 0.10 | 2000 | |
| Al | 27 | 1 | No Gas | 121.035 | 121.035 | 33.25 | 1098074 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 14676.239 | 14676.239 | 31.74 | 75800212 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | 43.647 | 43.647 | 34.01 | 418373 | 0.01 | 2000 | |
| Cd | 111 | 1 | No Gas | 45.307 | 45.307 | 35.04 | 86565 | 0.05 | 2000 | |
| Sr | 88 | 1 | No Gas | 2976.553 | 2976.553 | 34.52 | 60212437 | 0.00 | 2000 | >LDR |
| Mo | 95 | 1 | No Gas | 47.766 | 47.766 | 34.95 | 189209 | 0.03 | 2000 | |
| Sn | 118 | 1 | No Gas | 95.643 | 95.643 | 35.17 | 569600 | 0.02 | 2000 | |
| Sb | 121 | 1 | No Gas | 47.456 | 47.456 | 32.38 | 426650 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 75.563 | 75.563 | 34.73 | 264017 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 41.666 | 41.666 | 36.93 | 554062 | 0.01 | 2000 | |
| Tl | 203 | 1 | No Gas | 42.655 | 42.655 | 37.13 | 234549 | 0.02 | 2000 | |
| Pb | 208 | 1 | No Gas | 46.106 | 46.106 | 35.28 | 899121 | 0.01 | 2000 | |
| U | 238 | 1 | No Gas | 101.656 | 101.656 | 35.47 | 1808728 | 0.01 | 2000 | |
| Ca | 43 | 2 | He | 135595.659 | 135595.659 | 1.41 | 233337 | 58.11 | 200000 | |
| Sb | 121 | 2 | He | 48.620 | 48.620 | 2.85 | 208981 | 0.02 | 2000 | |
| Ti | 47 | 2 | He | 149.785 | 149.785 | 1.82 | 22208 | 0.67 | 2000 | |
| Cu | 63 | 1 | No Gas | 50.243 | 50.243 | 32.55 | 346405 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 49.373 | 49.373 | 32.02 | 100880 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | 50.254 | 50.254 | 35.46 | 7797 | 0.64 | 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 | 407983 | 15.80 | 471023 | 86.62 | 70 | 120 | |
| Ge | 72 | 2 | He | 446276 | 1.69 | 472743 | 94.40 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1619313 | 30.26 | 1532243 | 105.68 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1834032 | 33.04 | 1782326 | 102.90 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1315188 | 33.60 | 1201520 | 109.46 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060722-06MSD |
| Data File Name | 181SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:47:27-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 169.631 | 169.631 | 3.01 | 945054 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 49.907 | 49.907 | 2.44 | 90761 | 0.05 | 2000 | |
| V | 51 | 2 | He | 49.050 | 49.050 | 2.39 | 187871 | 0.03 | 2000 | |
| Cr | 52 | 2 | He | 50.081 | 50.081 | 1.98 | 202466 | 0.02 | 2000 | |
| Fe | 56 | 2 | He | 4836.505 | 4836.505 | 2.43 | 16080678 | 0.03 | 200000 | |
| Se | 78 | 2 | He | 47.925 | 47.925 | 0.37 | 3950 | 1.21 | 2000 | |
| As | 75 | 2 | He | 48.818 | 48.818 | 2.00 | 35514 | 0.14 | 2000 | |
| Ca | 44 | 2 | He | 132164.102 | 132164.102 | 2.51 | 3876127 | 3.41 | 200000 | |
| Na | 23 | 2 | He | 343905.413 | 343905.413 | 2.14 | 194501397 | 0.18 | 200000 | >LDR |
| Mg | 24 | 2 | He | 66942.702 | 66942.702 | 2.51 | 22526818 | 0.30 | 200000 | |
| K | 39 | 2 | He | 5401.670 | 5401.670 | 2.02 | 3551388 | 0.15 | 200000 | |
| Mn | 55 | 2 | He | 382.330 | 382.330 | 4.13 | 1234968 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 47.743 | 47.743 | 2.37 | 237820 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 84.827 | 84.827 | 1.07 | 103592 | 0.08 | 2000 | |
| Cu | 63 | 2 | He | 47.533 | 47.533 | 2.66 | 141412 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 50.085 | 50.085 | 3.97 | 35948 | 0.14 | 2000 | |
| Al | 27 | 2 | He | 126.434 | 126.434 | 4.33 | 34713 | 0.36 | 2000 | |
| B | 11 | 1 | No Gas | 528.844 | 528.844 | 2.11 | 528013 | 0.10 | 2000 | |
| Al | 27 | 1 | No Gas | 121.730 | 121.730 | 1.30 | 1124727 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 15060.299 | 15060.299 | 0.61 | 79129160 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | 44.253 | 44.253 | 2.11 | 442040 | 0.01 | 2000 | |
| Cd | 111 | 1 | No Gas | 47.750 | 47.750 | 3.16 | 95303 | 0.05 | 2000 | |
| Sr | 88 | 1 | No Gas | 2981.562 | 2981.562 | 2.38 | 62937052 | 0.00 | 2000 | >LDR |
| Mo | 95 | 1 | No Gas | 47.601 | 47.601 | 3.15 | 196873 | 0.02 | 2000 | |
| Sn | 118 | 1 | No Gas | 96.294 | 96.294 | 2.52 | 599224 | 0.02 | 2000 | |
| Sb | 121 | 1 | No Gas | 48.701 | 48.701 | 0.56 | 446184 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 76.882 | 76.882 | 3.14 | 280364 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 42.915 | 42.915 | 0.10 | 599202 | 0.01 | 2000 | |
| Tl | 203 | 1 | No Gas | 43.653 | 43.653 | 0.68 | 252170 | 0.02 | 2000 | |
| Pb | 208 | 1 | No Gas | 46.614 | 46.614 | 0.47 | 950724 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 102.977 | 102.977 | 0.61 | 1917126 | 0.01 | 2000 | |
| Ca | 43 | 2 | He | 132847.288 | 132847.288 | 2.90 | 232855 | 57.05 | 200000 | |
| Sb | 121 | 2 | He | 47.229 | 47.229 | 2.47 | 206827 | 0.02 | 2000 | |
| Ti | 47 | 2 | He | 146.441 | 146.441 | 2.37 | 22118 | 0.66 | 2000 | |
| Cu | 63 | 1 | No Gas | 51.292 | 51.292 | 1.84 | 360435 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 50.449 | 50.449 | 0.60 | 104906 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | 47.455 | 47.455 | 1.66 | 7551 | 0.63 | 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 | 414599 | 1.68 | 471023 | 88.02 | 70 | 120 | |
| Ge | 72 | 2 | He | 454624 | 1.56 | 472743 | 96.17 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1542667 | 0.42 | 1532243 | 100.68 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1768999 | 2.53 | 1782326 | 99.25 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1266909 | 0.22 | 1201520 | 105.44 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060722-06PDS |
| Data File Name | 182SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:49:18-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 109.420 | 109.420 | 1.08 | 604764 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 103.331 | 103.331 | 1.45 | 183471 | 0.06 | 2000 | |
| V | 51 | 2 | He | 97.864 | 97.864 | 1.21 | 355317 | 0.03 | 2000 | |
| Cr | 52 | 2 | He | 98.004 | 98.004 | 1.70 | 376939 | 0.03 | 2000 | |
| Fe | 56 | 2 | He | 9750.027 | 9750.027 | 1.72 | 31847960 | 0.03 | 200000 | |
| Se | 78 | 2 | He | 96.543 | 96.543 | 1.18 | 7618 | 1.27 | 2000 | |
| As | 75 | 2 | He | 97.544 | 97.544 | 1.58 | 69391 | 0.14 | 2000 | |
| Ca | 44 | 2 | He | 137785.033 | 137785.033 | 1.16 | 3975495 | 3.47 | 200000 | |
| Na | 23 | 2 | He | 351129.508 | 351129.508 | 1.14 | 195362664 | 0.18 | 200000 | >LDR |
| Mg | 24 | 2 | He | 71800.602 | 71800.602 | 1.10 | 23770043 | 0.30 | 200000 | |
| K | 39 | 2 | He | 10214.429 | 10214.429 | 2.26 | 6381347 | 0.16 | 200000 | |
| Mn | 55 | 2 | He | 430.734 | 430.734 | 1.05 | 1368980 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 94.936 | 94.936 | 1.71 | 465185 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 131.539 | 131.539 | 1.34 | 157832 | 0.08 | 2000 | |
| Cu | 63 | 2 | He | 93.935 | 93.935 | 0.94 | 274737 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 98.715 | 98.715 | 2.00 | 69434 | 0.14 | 2000 | |
| Al | 27 | 2 | He | 126.658 | 126.658 | 2.00 | 34216 | 0.37 | 2000 | |
| B | 11 | 1 | No Gas | 29.151 | 29.151 | 2.89 | 34080 | 0.09 | 2000 | |
| Al | 27 | 1 | No Gas | 122.036 | 122.036 | 3.26 | 1128198 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 14627.790 | 14627.790 | 1.80 | 76930546 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | 92.878 | 92.878 | 2.29 | 930716 | 0.01 | 2000 | |
| Cd | 111 | 1 | No Gas | 93.694 | 93.694 | 1.83 | 187834 | 0.05 | 2000 | |
| Sr | 88 | 1 | No Gas | 2867.685 | 2867.685 | 1.02 | 60797746 | 0.00 | 2000 | >LDR |
| Mo | 95 | 1 | No Gas | 95.335 | 95.335 | 1.21 | 395380 | 0.02 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.186 | 0.186 | 28.80 | 2337 | 0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | 98.751 | 98.751 | 1.84 | 904683 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 123.279 | 123.279 | 1.98 | 451402 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 88.239 | 88.239 | 0.66 | 1233933 | 0.01 | 2000 | |
| Tl | 203 | 1 | No Gas | 90.655 | 90.655 | 1.85 | 524425 | 0.02 | 2000 | |
| Pb | 208 | 1 | No Gas | 94.985 | 94.985 | 1.56 | 1940147 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 2.523 | 2.523 | 1.24 | 47456 | 0.01 | 2000 | |
| Ca | 43 | 2 | He | 139494.474 | 139494.474 | 2.08 | 240545 | 57.99 | 200000 | |
| Sb | 121 | 2 | He | 96.821 | 96.821 | 1.43 | 416771 | 0.02 | 2000 | |
| Ti | 47 | 2 | He | 102.737 | 102.737 | 0.59 | 15272 | 0.67 | 2000 | |
| Cu | 63 | 1 | No Gas | 100.841 | 100.841 | 2.29 | 708101 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 98.214 | 98.214 | 2.42 | 203694 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | 102.823 | 102.823 | 2.35 | 16083 | 0.64 | 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 | 404736 | 0.46 | 471023 | 85.93 | 70 | 120 | |
| Ge | 72 | 2 | He | 447167 | 0.59 | 472743 | 94.59 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1544262 | 2.03 | 1532243 | 100.78 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1776199 | 1.68 | 1782326 | 99.66 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1269605 | 2.18 | 1201520 | 105.67 | 70 | 120 | |

# Continuing Calibration Verification (CCV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCV |
| Data File Name | 185_CCV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:57:21-05:00 |
| Sample Type | CCV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| n | 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 | 99.956 | 0.875 | 580086 | 0.47 | 100 | 100.0 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 101.505 | 1.932 | 188433 | 1.01 | 100 | 101.5 | 90 | 110 | |
| V | 51 | 2 | He | 98.974 | 0.805 | 359585 | 0.37 | 100 | 99.0 | 90 | 110 | |
| Cr | 52 | 2 | He | 106.289 | 0.497 | 408132 | 0.65 | 100 | 106.3 | 90 | 110 | |
| Fe | 56 | 2 | He | 9972.041 | 1.567 | 32606911 | 0.89 | 10000 | 99.7 | 90 | 110 | |
| Se | 78 | 2 | He | 101.757 | 1.133 | 8027 | 0.19 | 100 | 101.8 | 90 | 110 | |
| As | 75 | 2 | He | 99.976 | 0.838 | 71189 | 0.75 | 100 | 100.0 | 90 | 110 | |
| Ca | 44 | 2 | He | 9943.093 | 1.066 | 287737 | 0.30 | 10000 | 99.4 | 90 | 110 | |
| Na | 23 | 2 | He | 10266.854 | 0.453 | 5751481 | 1.27 | 10000 | 102.7 | 90 | 110 | |
| Mg | 24 | 2 | He | 9967.416 | 1.861 | 3304674 | 0.98 | 10000 | 99.7 | 90 | 110 | |
| K | 39 | 2 | He | 9843.061 | 1.628 | 6165167 | 0.78 | 10000 | 98.4 | 90 | 110 | |
| Mn | 55 | 2 | He | 100.336 | 1.488 | 319488 | 0.70 | 100 | 100.3 | 90 | 110 | |
| Co | 59 | 2 | He | 100.344 | 1.488 | 492201 | 0.67 | 100 | 100.3 | 90 | 110 | |
| Ni | 60 | 2 | He | 107.869 | 2.038 | 129618 | 1.19 | 100 | 107.9 | 90 | 110 | |
| Cu | 63 | 2 | He | 102.291 | 1.755 | 299475 | 1.43 | 100 | 102.3 | 90 | 110 | |
| Zn | 66 | 2 | He | 103.712 | 2.408 | 73009 | 1.67 | 100 | 103.7 | 90 | 110 | |
| Al | 27 | 2 | He | 105.507 | 3.789 | 28707 | 2.88 | 100 | 105.5 | 90 | 110 | |
| B | 11 | 1 | No Gas | 519.673 | 0.514 | 529865 | 1.06 | 500 | 103.9 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 102.567 | 1.134 | 939997 | 1.61 | 100 | 102.6 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 624.568 | 2.756 | 3616742 | 1.59 | 5000 | 12.5 | 90 | 110 | CCV Main CR1-2 Failed |
| Ag | 107 | 1 | No Gas | 99.375 | 2.970 | 1002698 | 0.51 | 100 | 99.4 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 97.143 | 2.661 | 196113 | 1.12 | 100 | 97.1 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 99.325 | 2.595 | 2121653 | 0.96 | 100 | 99.3 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 94.823 | 3.759 | 395887 | 0.66 | 100 | 94.8 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 100.243 | 2.870 | 630783 | 1.20 | 100 | 100.2 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 102.343 | 0.950 | 923446 | 1.53 | 100 | 102.3 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 98.136 | 2.329 | 361924 | 1.06 | 100 | 98.1 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 95.803 | 1.380 | 1401307 | 1.38 | 100 | 95.8 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 98.000 | 1.646 | 593046 | 0.77 | 100 | 98.0 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 97.714 | 2.146 | 2087761 | 1.13 | 100 | 97.7 | 90 | 110 | |
| U | 238 | 1 | No Gas | 100.714 | 1.008 | 1965333 | 1.33 | 100 | 100.7 | 90 | 110 | |
| Ca | 43 | 2 | He | 9713.955 | 1.879 | 16824 | 1.06 | 10000 | 97.1 | 90 | 110 | |
| Sb | 121 | 2 | He | 101.084 | 0.714 | 435586 | 0.44 | 100 | 101.1 | 90 | 110 | |
| Ti | 47 | 2 | He | 99.474 | 1.751 | 14805 | 2.64 | 100 | 99.5 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 100.011 | 1.391 | 691677 | 0.53 | 100 | 100.0 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 97.647 | 3.990 | 15057 | 4.45 | 100 | 97.6 | 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 | 423219 | 1.22 | 471023 | 89.85 | 70 | 120 | |
| Ge | 72 | 2 | He | 447652 | 0.94 | 472743 | 94.69 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1520602 | 0.85 | 1532243 | 99.24 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1789302 | 3.34 | 1782326 | 100.39 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1328123 | 2.18 | 1201520 | 110.54 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCB |
| Data File Name | 186_CCB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:59:10-05:00 |
| Sample Type | CCB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.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 | 0.337 | 17.4 | 30959 | 1.4 | 0.5 | |
| Be | 9 | 1 | No Gas | 0.064 | 11.6 | 150 | 8.8 | 0.5 | |
| V | 51 | 2 | He | -0.130 | -23.5 | 13205 | 0.4 | 2.5 | |
| Cr | 52 | 2 | He | 0.183 | 83.0 | 14248 | 4.0 | 2.5 | |
| Fe | 56 | 2 | He | -6.323 | -7.9 | 22527 | 7.1 | 100 | |
| Se | 78 | 2 | He | -0.355 | -108.7 | 180 | 16.7 | 2 | |
| As | 75 | 2 | He | -0.022 | -240.9 | 407 | 8.9 | 2.5 | |
| Ca | 44 | 2 | He | -4.462 | -25.9 | 463 | 7.6 | 100 | |
| Na | 23 | 2 | He | 233.614 | 1.4 | 165465 | 0.8 | 100 | CCB Main CR1 Failed |
| Mg | 24 | 2 | He | 1.733 | 47.9 | 2470 | 11.0 | 100 | |
| K | 39 | 2 | He | -44.435 | -10.3 | 228326 | 0.9 | 100 | |
| Mn | 55 | 2 | He | 0.063 | 5.0 | 550 | 1.8 | 2.5 | |
| Co | 59 | 2 | He | 0.002 | 112.5 | 60 | 16.7 | 2.5 | |
| Ni | 60 | 2 | He | -0.048 | -70.5 | 267 | 15.2 | 2.5 | |
| Cu | 63 | 2 | He | 0.047 | 57.0 | 353 | 22.9 | 2 | |
| Zn | 66 | 2 | He | 0.150 | 103.1 | 397 | 27.8 | 2.5 | |
| Al | 27 | 2 | He | 1.839 | 362.0 | 1566 | 112.9 | 5 | |
| B | 11 | 1 | No Gas | 5.791 | 11.0 | 12481 | 5.2 | 0.5 | CCB Main CR1 Failed |
| Al | 27 | 1 | No Gas | -2.100 | -1.7 | 18773 | 0.8 | 5 | |
| Si | 28 | 1 | No Gas | -15.804 | -5.1 | 321058 | 1.0 | 10 | |
| Ag | 107 | 1 | No Gas | -0.058 | -9.5 | 243 | 24.8 | 2.5 | |
| Cd | 111 | 1 | No Gas | 0.018 | 41.4 | 26 | 59.6 | 1 | |
| Sr | 88 | 1 | No Gas | 0.030 | 36.2 | 2064 | 11.2 | 2.5 | |
| Mo | 95 | 1 | No Gas | 0.021 | 49.1 | 793 | 6.2 | 2.5 | |
| Sn | 118 | 1 | No Gas | 0.058 | 32.7 | 1597 | 6.0 | 5 | |
| Sb | 121 | 1 | No Gas | -0.002 | -355.8 | 730 | 5.5 | 2.5 | |
| Ba | 137 | 1 | No Gas | 0.012 | 147.0 | 257 | 25.0 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.687 | 36.3 | 11286 | 34.6 | 1 | |
| Tl | 203 | 1 | No Gas | 0.692 | 34.2 | 4678 | 32.8 | 1 | |
| Pb | 208 | 1 | No Gas | 0.017 | 37.9 | 1227 | 11.4 | 2.5 | |
| U | 238 | 1 | No Gas | 0.005 | 90.9 | 547 | 18.0 | 2.5 | |
| Ca | 43 | 2 | He | -13.569 | -87.6 | 37 | 56.8 | 100 | |
| Sb | 121 | 2 | He | -0.002 | -1544.8 | 333 | 37.0 | 2.5 | |
| Ti | 47 | 2 | He | -0.105 | -36.4 | 3 | 173.2 | 2.5 | |
| Cu | 63 | 1 | No Gas | 0.665 | 3.8 | 5748 | 1.8 | 2.5 | |
| Se | 82 | 1 | No Gas | -0.969 | -22.9 | 99 | 36.2 | 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 | 436562 | 0.67 | 471023 | 92.68 | 70 | 120 | |
| Ge | 72 | 2 | He | 452503 | 0.37 | 472743 | 95.72 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1536934 | 1.61 | 1532243 | 100.31 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1840354 | 1.67 | 1782326 | 103.26 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1405372 | 0.48 | 1201520 | 116.97 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060999-01 |
| Data File Name | 188SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:03:25-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 6.812 | 6.812 | 4.10 | 70380 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.279 | 0.279 | 7.11 | 583 | 0.05 | 2000 | |
| V | 51 | 2 | He | 9.511 | 9.511 | 1.17 | 48184 | 0.02 | 2000 | |
| Cr | 52 | 2 | He | 1.590 | 1.590 | 10.22 | 19898 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 1335.042 | 1335.042 | 2.21 | 4535319 | 0.03 | 200000 | |
| Se | 78 | 2 | He | 0.033 | 0.033 | 801.42 | 214 | 0.02 | 2000 | |
| As | 75 | 2 | He | 0.461 | 0.461 | 7.79 | 767 | 0.06 | 2000 | |
| Ca | 44 | 2 | He | 1065.561 | 1065.561 | 1.87 | 32308 | 3.30 | 200000 | |
| Na | 23 | 2 | He | 10884.386 | 10884.386 | 3.05 | 6277999 | 0.17 | 200000 | |
| Mg | 24 | 2 | He | 940.287 | 940.287 | 1.38 | 322922 | 0.29 | 200000 | |
| K | 39 | 2 | He | 420.358 | 420.358 | 5.56 | 520259 | 0.08 | 200000 | |
| Mn | 55 | 2 | He | 10.520 | 10.520 | 3.36 | 34825 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 1.305 | 1.305 | 0.60 | 6648 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 3.267 | 3.267 | 5.45 | 4364 | 0.07 | 2000 | |
| Cu | 63 | 2 | He | 2.158 | 2.158 | 1.97 | 6722 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 11.046 | 11.046 | 7.19 | 8276 | 0.13 | 2000 | |
| Al | 27 | 2 | He | 1217.240 | 1217.240 | 1.08 | 329697 | 0.37 | 2000 | |
| B | 11 | 1 | No Gas | 7.332 | 7.332 | 4.63 | 14609 | 0.05 | 2000 | |
| Al | 27 | 1 | No Gas | 1103.910 | 1103.910 | 1.40 | 10296971 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 16310.404 | 16310.404 | 0.64 | 89134325 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | -0.069 | -0.069 | -7.81 | 137 | -0.05 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.178 | 0.178 | 14.05 | 363 | 0.05 | 2000 | |
| Sr | 88 | 1 | No Gas | 24.270 | 24.270 | 1.61 | 539305 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.078 | 0.078 | 274.18 | 1048 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.081 | 0.081 | 2.41 | 1763 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.149 | 0.149 | 8.08 | 2194 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 50.141 | 50.141 | 0.39 | 192094 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 0.010 | 0.010 | 30.88 | 787 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 0.024 | 0.024 | 44.97 | 390 | 0.01 | 2000 | |
| Pb | 208 | 1 | No Gas | 1.205 | 1.205 | 1.52 | 27569 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.360 | 0.360 | 3.92 | 7723 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 998.272 | 998.272 | 2.68 | 1837 | 54.35 | 200000 | |
| Sb | 121 | 2 | He | 0.156 | 0.156 | 3.35 | 1040 | 0.02 | 2000 | |
| Ti | 47 | 2 | He | 16.371 | 16.371 | 3.11 | 2527 | 0.65 | 2000 | |
| Cu | 63 | 1 | No Gas | 2.967 | 2.967 | 0.70 | 22789 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 11.290 | 11.290 | 2.31 | 25013 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | -1.272 | -1.272 | -18.68 | 54 | -2.34 | 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 | 452974 | 1.24 | 471023 | 96.17 | 70 | 120 | |
| Ge | 72 | 2 | He | 461192 | 1.30 | 472743 | 97.56 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1605159 | 0.54 | 1532243 | 104.76 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1856792 | 0.80 | 1782326 | 104.18 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1378933 | 1.90 | 1201520 | 114.77 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060999-02 |
| Data File Name | 189SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:05:17-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 156.252 | 156.252 | 1.56 | 884687 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 0.010 | 0.010 | 98.36 | 45 | 0.02 | 2000 | |
| V | 51 | 2 | He | 0.203 | 0.203 | 52.46 | 13773 | 0.00 | 2000 | |
| Cr | 52 | 2 | He | 9.407 | 9.407 | 2.46 | 46797 | 0.02 | 2000 | |
| Fe | 56 | 2 | He | 9906.000 | 9906.000 | 0.91 | 31356508 | 0.03 | 200000 | |
| Se | 78 | 2 | He | -0.263 | -0.263 | -156.47 | 179 | -0.15 | 2000 | |
| As | 75 | 2 | He | 4.480 | 4.480 | 6.90 | 3474 | 0.13 | 2000 | |
| Ca | 44 | 2 | He | 106435.065 | 106435.065 | 1.27 | 2976046 | 3.58 | 200000 | |
| Na | 23 | 2 | He | 220298.929 | 220298.929 | 0.81 | 118787328 | 0.19 | 200000 | >LDR |
| Mg | 24 | 2 | He | 18990.478 | 18990.478 | 1.48 | 6093249 | 0.31 | 200000 | |
| K | 39 | 2 | He | 102477.350 | 102477.350 | 0.88 | 59835086 | 0.17 | 200000 | |
| Mn | 55 | 2 | He | 682.019 | 682.019 | 0.35 | 2100386 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 1.616 | 1.616 | 2.65 | 7722 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 4.032 | 4.032 | 5.22 | 4991 | 0.08 | 2000 | |
| Cu | 63 | 2 | He | 0.759 | 0.759 | 6.45 | 2354 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 5.646 | 5.646 | 2.70 | 4111 | 0.14 | 2000 | |
| Al | 27 | 2 | He | 46.350 | 46.350 | 2.64 | 12786 | 0.36 | 2000 | |
| B | 11 | 1 | No Gas | 112.889 | 112.889 | 1.31 | 119164 | 0.09 | 2000 | |
| Al | 27 | 1 | No Gas | 45.997 | 45.997 | 4.01 | 435251 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 11263.917 | 11263.917 | 3.35 | 57536952 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | -0.069 | -0.069 | -2.61 | 127 | -0.05 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.094 | 0.094 | 28.00 | 171 | 0.05 | 2000 | |
| Sr | 88 | 1 | No Gas | 1667.857 | 1667.857 | 2.87 | 34079260 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 1.395 | 1.395 | 7.58 | 6222 | 0.02 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.086 | 0.086 | 11.27 | 1653 | 0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.027 | 0.027 | 45.06 | 967 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 538.567 | 538.567 | 1.61 | 1900410 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | -0.029 | -0.029 | -11.06 | 190 | -0.02 | 2000 | |
| Tl | 203 | 1 | No Gas | -0.024 | -0.024 | -11.97 | 77 | -0.03 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.192 | 0.192 | 15.31 | 4678 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.054 | 0.054 | 5.52 | 1400 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 105301.922 | 105301.922 | 0.91 | 175993 | 59.83 | 200000 | |
| Sb | 121 | 2 | He | 0.030 | 0.030 | 41.56 | 453 | 0.01 | 2000 | |
| Ti | 47 | 2 | He | 1.635 | 1.635 | 18.03 | 253 | 0.65 | 2000 | |
| Cu | 63 | 1 | No Gas | 8.053 | 8.053 | 12.89 | 55964 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 5.768 | 5.768 | 1.01 | 12272 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | -1.054 | -1.054 | -38.15 | 84 | -1.26 | 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 | 420231 | 0.52 | 471023 | 89.22 | 70 | 120 | |
| Ge | 72 | 2 | He | 433317 | 0.74 | 472743 | 91.66 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1497956 | 2.35 | 1532243 | 97.76 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1712213 | 1.71 | 1782326 | 96.07 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1266302 | 2.23 | 1201520 | 105.39 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060999-04 |
| Data File Name | 190SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:07:10-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 165.558 | 165.558 | 9.30 | 847443 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 1.938 | 1.938 | 6.25 | 3267 | 0.06 | 2000 | |
| V | 51 | 2 | He | -1.312 | -1.312 | -3.54 | 8316 | -0.02 | 2000 | |
| Cr | 52 | 2 | He | 38.284 | 38.284 | 1.84 | 144826 | 0.03 | 2000 | |
| Fe | 56 | 2 | He | 107619.753 | 107619.753 | 1.15 | 327201688 | 0.03 | 200000 | |
| Se | 78 | 2 | He | 0.005 | 0.005 | 4879.19 | 191 | 0.00 | 2000 | |
| As | 75 | 2 | He | 1.783 | 1.783 | 4.63 | 1565 | 0.11 | 2000 | |
| Ca | 44 | 2 | He | 112077.220 | 112077.220 | 1.05 | 3013668 | 3.72 | 200000 | |
| Na | 23 | 2 | He | 482146.640 | 482146.640 | 0.66 | 249987523 | 0.19 | 200000 | >LDR |
| Mg | 24 | 2 | He | 70514.752 | 70514.752 | 0.58 | 21755031 | 0.32 | 200000 | |
| K | 39 | 2 | He | 11907.989 | 11907.989 | 0.85 | 6894158 | 0.17 | 200000 | |
| Mn | 55 | 2 | He | 4646.737 | 4646.737 | 1.89 | 13759541 | 0.03 | 2000 | >LDR |
| Co | 59 | 2 | He | 25.366 | 25.366 | 0.87 | 115873 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 90.088 | 90.088 | 0.70 | 100845 | 0.09 | 2000 | |
| Cu | 63 | 2 | He | 4.538 | 4.538 | 3.28 | 12553 | 0.04 | 2000 | |
| Zn | 66 | 2 | He | 378.460 | 378.460 | 1.50 | 247305 | 0.15 | 2000 | |
| Al | 27 | 2 | He | 148.423 | 148.423 | 3.45 | 37198 | 0.40 | 2000 | |
| B | 11 | 1 | No Gas | 39.627 | 39.627 | 8.53 | 41573 | 0.10 | 2000 | |
| Al | 27 | 1 | No Gas | 145.261 | 145.261 | 11.88 | 1204677 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 13716.304 | 13716.304 | 9.55 | 65145446 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | -0.056 | -0.056 | -13.22 | 233 | -0.02 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.805 | 0.805 | 14.90 | 1429 | 0.06 | 2000 | |
| Sr | 88 | 1 | No Gas | 2517.773 | 2517.773 | 9.77 | 47671986 | 0.01 | 2000 | >LDR |
| Mo | 95 | 1 | No Gas | 0.250 | 0.250 | 42.54 | 1520 | 0.02 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.038 | 0.038 | 50.37 | 1267 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | -0.008 | -0.008 | -108.54 | 613 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 238.276 | 238.276 | 9.02 | 779460 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | -0.022 | -0.022 | -19.17 | 257 | -0.01 | 2000 | |
| Tl | 203 | 1 | No Gas | -0.009 | -0.009 | -94.12 | 150 | -0.01 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.074 | 0.074 | 6.29 | 2063 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.001 | 0.001 | 265.91 | 387 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 113374.009 | 113374.009 | 0.51 | 182212 | 62.22 | 200000 | |
| Sb | 121 | 2 | He | -0.015 | -0.015 | -47.35 | 253 | -0.01 | 2000 | |
| Ti | 47 | 2 | He | 1.898 | 1.898 | 19.68 | 280 | 0.68 | 2000 | |
| Cu | 63 | 1 | No Gas | 46.049 | 46.049 | 3.04 | 293675 | 0.02 | 2000 | |
| Zn | 66 | 1 | No Gas | 385.861 | 385.861 | 8.59 | 720968 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | -2.728 | -2.728 | -20.36 | -154 | 1.77 | 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 | 382330 | 7.62 | 471023 | 81.17 | 70 | 120 | |
| Ge | 72 | 2 | He | 416738 | 1.67 | 472743 | 88.15 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1401196 | 8.37 | 1532243 | 91.45 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1595254 | 8.80 | 1782326 | 89.50 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1153163 | 8.39 | 1201520 | 95.98 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060999-05 |
| Data File Name | 191SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:09:04-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 52.631 | 52.631 | 2.80 | 295699 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 0.059 | 0.059 | 20.09 | 127 | 0.05 | 2000 | |
| V | 51 | 2 | He | -0.214 | -0.214 | -78.93 | 11745 | 0.00 | 2000 | |
| Cr | 52 | 2 | He | 1.188 | 1.188 | 8.18 | 16394 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 4735.080 | 4735.080 | 1.75 | 14259104 | 0.03 | 200000 | |
| Se | 78 | 2 | He | -0.189 | -0.189 | -197.66 | 175 | -0.11 | 2000 | |
| As | 75 | 2 | He | 7.650 | 7.650 | 2.55 | 5363 | 0.14 | 2000 | |
| Ca | 44 | 2 | He | 13904.223 | 13904.223 | 2.22 | 369802 | 3.76 | 200000 | |
| Na | 23 | 2 | He | 283738.958 | 283738.958 | 1.71 | 145334611 | 0.20 | 200000 | >LDR |
| Mg | 24 | 2 | He | 7110.329 | 7110.329 | 2.13 | 2168440 | 0.33 | 200000 | |
| K | 39 | 2 | He | 2855.383 | 2855.383 | 1.15 | 1809625 | 0.16 | 200000 | |
| Mn | 55 | 2 | He | 85.673 | 85.673 | 0.82 | 250938 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 0.413 | 0.413 | 6.07 | 1910 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 1.053 | 1.053 | 10.61 | 1457 | 0.07 | 2000 | |
| Cu | 63 | 2 | He | 0.571 | 0.571 | 13.28 | 1730 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 3.252 | 3.252 | 8.99 | 2360 | 0.14 | 2000 | |
| Al | 27 | 2 | He | 47.387 | 47.387 | 4.27 | 12396 | 0.38 | 2000 | |
| B | 11 | 1 | No Gas | 1227.509 | 1227.509 | 1.70 | 1153183 | 0.11 | 2000 | |
| Al | 27 | 1 | No Gas | 48.289 | 48.289 | 3.23 | 424408 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 11796.012 | 11796.012 | 2.77 | 56175486 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | -0.066 | -0.066 | -6.49 | 137 | -0.05 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.183 | 0.183 | 21.43 | 314 | 0.06 | 2000 | |
| Sr | 88 | 1 | No Gas | 610.753 | 610.753 | 3.59 | 11324204 | 0.01 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.731 | 0.731 | 5.26 | 3240 | 0.02 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.123 | 0.123 | 18.87 | 1703 | 0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.015 | 0.015 | 106.15 | 800 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 134.085 | 134.085 | 3.40 | 429400 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | -0.032 | -0.032 | -7.48 | 133 | -0.02 | 2000 | |
| Tl | 203 | 1 | No Gas | -0.030 | -0.030 | -16.43 | 43 | -0.07 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.156 | 0.156 | 7.07 | 3680 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.062 | 0.062 | 20.88 | 1450 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 13965.033 | 13965.033 | 2.78 | 22222 | 62.84 | 200000 | |
| Sb | 121 | 2 | He | 0.012 | 0.012 | 77.41 | 360 | 0.00 | 2000 | |
| Ti | 47 | 2 | He | 2.801 | 2.801 | 7.84 | 400 | 0.70 | 2000 | |
| Cu | 63 | 1 | No Gas | 23.126 | 23.126 | 4.71 | 147609 | 0.02 | 2000 | |
| Zn | 66 | 1 | No Gas | 3.410 | 3.410 | 6.76 | 7029 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | -1.099 | -1.099 | -43.15 | 71 | -1.54 | 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 | 392710 | 2.23 | 471023 | 83.37 | 70 | 120 | |
| Ge | 72 | 2 | He | 411669 | 0.96 | 472743 | 87.08 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1396830 | 2.30 | 1532243 | 91.16 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1554223 | 3.05 | 1782326 | 87.20 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1180293 | 2.08 | 1201520 | 98.23 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060999-06 |
| Data File Name | 192SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:10:57-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 7.128 | 7.128 | 1.97 | 73646 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.311 | 0.311 | 7.27 | 658 | 0.05 | 2000 | |
| V | 51 | 2 | He | 10.180 | 10.180 | 1.13 | 48559 | 0.02 | 2000 | |
| Cr | 52 | 2 | He | 2.313 | 2.313 | 8.61 | 21754 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 1831.536 | 1831.536 | 1.19 | 5956218 | 0.03 | 200000 | |
| Se | 78 | 2 | He | 0.074 | 0.074 | 528.32 | 209 | 0.04 | 2000 | |
| As | 75 | 2 | He | 0.831 | 0.831 | 12.02 | 994 | 0.08 | 2000 | |
| Ca | 44 | 2 | He | 678.755 | 678.755 | 2.63 | 19961 | 3.40 | 200000 | |
| Na | 23 | 2 | He | 18517.988 | 18517.988 | 1.49 | 10229303 | 0.18 | 200000 | |
| Mg | 24 | 2 | He | 796.267 | 796.267 | 1.28 | 262742 | 0.30 | 200000 | |
| K | 39 | 2 | He | 188.305 | 188.305 | 3.88 | 361557 | 0.05 | 200000 | |
| Mn | 55 | 2 | He | 32.070 | 32.070 | 0.85 | 101202 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 4.802 | 4.802 | 2.50 | 23337 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 2.508 | 2.508 | 6.38 | 3290 | 0.08 | 2000 | |
| Cu | 63 | 2 | He | 2.030 | 2.030 | 5.55 | 6081 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 8.670 | 8.670 | 4.70 | 6295 | 0.14 | 2000 | |
| Al | 27 | 2 | He | 1590.459 | 1590.459 | 1.44 | 413096 | 0.39 | 2000 | |
| B | 11 | 1 | No Gas | 16.595 | 16.595 | 4.65 | 25069 | 0.07 | 2000 | |
| Al | 27 | 1 | No Gas | 1510.955 | 1510.955 | 1.20 | 13201201 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 21727.255 | 21727.255 | 1.02 | 111195682 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | -0.068 | -0.068 | -3.98 | 140 | -0.05 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.180 | 0.180 | 10.15 | 351 | 0.05 | 2000 | |
| Sr | 88 | 1 | No Gas | 17.878 | 17.878 | 2.74 | 381855 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | -0.041 | -0.041 | -33.48 | 510 | -0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.202 | 0.202 | 14.25 | 2447 | 0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | -0.017 | -0.017 | -27.56 | 580 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 53.906 | 53.906 | 2.44 | 198302 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 0.001 | 0.001 | 659.97 | 627 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 0.004 | 0.004 | 163.92 | 253 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | 1.427 | 1.427 | 3.27 | 31096 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.483 | 0.483 | 2.57 | 9777 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 668.843 | 668.843 | 16.93 | 1200 | 55.73 | 200000 | |
| Sb | 121 | 2 | He | -0.007 | -0.007 | -100.00 | 303 | 0.00 | 2000 | |
| Ti | 47 | 2 | He | 15.278 | 15.278 | 15.15 | 2264 | 0.67 | 2000 | |
| Cu | 63 | 1 | No Gas | 3.940 | 3.940 | 4.49 | 28009 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 8.695 | 8.695 | 3.73 | 18226 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | -0.886 | -0.886 | -53.97 | 108 | -0.82 | 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 | 461657 | 0.78 | 471023 | 98.01 | 70 | 120 | |
| Ge | 72 | 2 | He | 442586 | 0.20 | 472743 | 93.62 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1505085 | 1.12 | 1532243 | 98.23 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1783748 | 2.50 | 1782326 | 100.08 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1320080 | 1.19 | 1201520 | 109.87 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060999-07 |
| Data File Name | 193SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:12:50-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 425.310 | 425.310 | 2.12 | 2295898 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 0.005 | 0.005 | 56.71 | 35 | 0.01 | 2000 | |
| V | 51 | 2 | He | 1.316 | 1.316 | 7.72 | 16896 | 0.01 | 2000 | |
| Cr | 52 | 2 | He | 57.659 | 57.659 | 1.13 | 212194 | 0.03 | 2000 | |
| Fe | 56 | 2 | He | 37.221 | 37.221 | 2.14 | 153400 | 0.02 | 200000 | |
| Se | 78 | 2 | He | 0.509 | 0.509 | 35.18 | 228 | 0.22 | 2000 | |
| As | 75 | 2 | He | 1.416 | 1.416 | 8.25 | 1325 | 0.11 | 2000 | |
| Ca | 44 | 2 | He | 31949.008 | 31949.008 | 0.99 | 861022 | 3.71 | 200000 | |
| Na | 23 | 2 | He | 298123.096 | 298123.096 | 0.95 | 154863248 | 0.19 | 200000 | >LDR |
| Mg | 24 | 2 | He | 463.468 | 463.468 | 1.32 | 144977 | 0.32 | 200000 | |
| K | 39 | 2 | He | 343014.063 | 343014.063 | 0.86 | 192394944 | 0.18 | 200000 | >LDR |
| Mn | 55 | 2 | He | 8.453 | 8.453 | 1.62 | 25397 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 0.149 | 0.149 | 13.22 | 730 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 0.864 | 0.864 | 14.83 | 1267 | 0.07 | 2000 | |
| Cu | 63 | 2 | He | 0.655 | 0.655 | 3.01 | 1984 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 3.345 | 3.345 | 9.40 | 2457 | 0.14 | 2000 | |
| Al | 27 | 2 | He | 121.522 | 121.522 | 0.70 | 30691 | 0.40 | 2000 | |
| B | 11 | 1 | No Gas | 77.579 | 77.579 | 1.24 | 81559 | 0.10 | 2000 | |
| Al | 27 | 1 | No Gas | 113.732 | 113.732 | 3.63 | 1000490 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 6435.461 | 6435.461 | 1.37 | 32339860 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | -0.066 | -0.066 | -5.96 | 150 | -0.04 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.055 | 0.055 | 16.19 | 92 | 0.06 | 2000 | |
| Sr | 88 | 1 | No Gas | 2832.474 | 2832.474 | 2.48 | 56079514 | 0.01 | 2000 | >LDR |
| Mo | 95 | 1 | No Gas | 3.563 | 3.563 | 6.33 | 14405 | 0.02 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.156 | 0.156 | 29.11 | 2010 | 0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.206 | 0.206 | 9.02 | 2500 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 222.477 | 222.477 | 2.14 | 760715 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | -0.035 | -0.035 | -9.38 | 93 | -0.04 | 2000 | |
| Tl | 203 | 1 | No Gas | -0.028 | -0.028 | -24.38 | 57 | -0.05 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.057 | 0.057 | 3.63 | 1837 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.001 | 0.001 | 711.70 | 390 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 34729.451 | 34729.451 | 1.97 | 55954 | 62.07 | 200000 | |
| Sb | 121 | 2 | He | 0.190 | 0.190 | 12.95 | 1080 | 0.02 | 2000 | |
| Ti | 47 | 2 | He | 1.193 | 1.193 | 23.37 | 183 | 0.65 | 2000 | |
| Cu | 63 | 1 | No Gas | 7.288 | 7.288 | 2.44 | 49554 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 3.291 | 3.291 | 2.15 | 7145 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | -0.095 | -0.095 | -878.79 | 222 | -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 | 408830 | 0.40 | 471023 | 86.80 | 70 | 120 | |
| Ge | 72 | 2 | He | 417467 | 1.03 | 472743 | 88.31 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1465424 | 0.44 | 1532243 | 95.64 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1658914 | 1.36 | 1782326 | 93.08 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1200649 | 1.54 | 1201520 | 99.93 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCB |
| Data File Name | 198_CCB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:22:11-05:00 |
| Sample Type | CCB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.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 | 1.471 | 4.6 | 33832 | 2.0 | 0.5 | CCB Main CR1 Failed |
| Be | 9 | 1 | No Gas | 0.062 | 9.2 | 133 | 7.8 | 0.5 | |
| V | 51 | 2 | He | 0.317 | 40.3 | 12666 | 1.8 | 2.5 | |
| Cr | 52 | 2 | He | 0.423 | 13.6 | 12980 | 1.2 | 2.5 | |
| Fe | 56 | 2 | He | -4.952 | -4.3 | 23184 | 2.9 | 100 | |
| Se | 78 | 2 | He | 0.041 | 220.1 | 181 | 4.5 | 2 | |
| As | 75 | 2 | He | 0.001 | 14606.1 | 362 | 15.7 | 2.5 | |
| Ca | 44 | 2 | He | -3.403 | -22.8 | 423 | 3.6 | 100 | |
| Na | 23 | 2 | He | 390.096 | 1.3 | 217268 | 1.4 | 100 | CCB Main CR1 Failed |
| Mg | 24 | 2 | He | 0.720 | 110.8 | 1827 | 13.0 | 100 | |
| K | 39 | 2 | He | -4.165 | -172.6 | 216585 | 1.1 | 100 | |
| Mn | 55 | 2 | He | 0.067 | 19.9 | 483 | 8.6 | 2.5 | |
| Co | 59 | 2 | He | 0.012 | 19.7 | 97 | 11.9 | 2.5 | |
| Ni | 60 | 2 | He | -0.031 | -73.1 | 247 | 10.2 | 2.5 | |
| Cu | 63 | 2 | He | 0.095 | 25.6 | 423 | 15.7 | 2 | |
| Zn | 66 | 2 | He | 0.218 | 71.2 | 380 | 23.4 | 2.5 | |
| Al | 27 | 2 | He | -1.566 | -6.4 | 567 | 2.7 | 5 | |
| B | 11 | 1 | No Gas | 8.980 | 7.7 | 14274 | 3.0 | 0.5 | CCB Main CR1 Failed |
| Al | 27 | 1 | No Gas | -2.063 | -2.2 | 16360 | 2.3 | 5 | |
| Si | 28 | 1 | No Gas | -7.738 | -30.1 | 311146 | 4.8 | 10 | |
| Ag | 107 | 1 | No Gas | -0.061 | -6.5 | 183 | 17.5 | 2.5 | |
| Cd | 111 | 1 | No Gas | 0.018 | 16.4 | 23 | 24.4 | 1 | |
| Sr | 88 | 1 | No Gas | 0.081 | 11.4 | 2670 | 5.1 | 2.5 | |
| Mo | 95 | 1 | No Gas | 0.000 | -5242.1 | 590 | 13.5 | 2.5 | |
| Sn | 118 | 1 | No Gas | 0.066 | 5.1 | 1387 | 1.1 | 5 | |
| Sb | 121 | 1 | No Gas | 0.004 | 49.0 | 667 | 2.3 | 2.5 | |
| Ba | 137 | 1 | No Gas | 0.047 | 35.4 | 327 | 15.4 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.659 | 38.0 | 9161 | 37.0 | 1 | |
| Tl | 203 | 1 | No Gas | 0.678 | 36.2 | 3871 | 35.3 | 1 | |
| Pb | 208 | 1 | No Gas | 0.023 | 9.7 | 1160 | 5.2 | 2.5 | |
| U | 238 | 1 | No Gas | 0.004 | 115.1 | 443 | 19.7 | 2.5 | |
| Ca | 43 | 2 | He | -23.505 | -43.0 | 17 | 91.7 | 100 | |
| Sb | 121 | 2 | He | -0.024 | -43.9 | 203 | 19.9 | 2.5 | |
| Ti | 47 | 2 | He | -0.102 | -44.2 | 3 | 173.2 | 2.5 | |
| Cu | 63 | 1 | No Gas | 1.124 | 10.4 | 7676 | 10.6 | 2.5 | |
| Se | 82 | 1 | No Gas | -1.041 | -47.0 | 75 | 86.2 | 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 | 394754 | 2.51 | 471023 | 83.81 | 70 | 120 | |
| Ge | 72 | 2 | He | 387748 | 1.32 | 472743 | 82.02 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1316908 | 3.11 | 1532243 | 85.95 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1548407 | 1.22 | 1782326 | 86.88 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1184232 | 1.46 | 1201520 | 98.56 | 70 | 120 | |

# Continuing Calibration Verification (CCV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCV |
| Data File Name | 201_CCV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:42:20-05:00 |
| Sample Type | CCV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| n | 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 | 96.443 | 1.620 | 503762 | 0.87 | 100 | 96.4 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 98.210 | 1.487 | 163818 | 0.72 | 100 | 98.2 | 90 | 110 | |
| V | 51 | 2 | He | 96.340 | 1.051 | 321371 | 0.53 | 100 | 96.3 | 90 | 110 | |
| Cr | 52 | 2 | He | 104.472 | 1.020 | 368155 | 0.73 | 100 | 104.5 | 90 | 110 | |
| Fe | 56 | 2 | He | 9884.113 | 1.887 | 29644327 | 1.17 | 10000 | 98.8 | 90 | 110 | |
| Se | 78 | 2 | He | 100.604 | 0.635 | 7282 | 1.19 | 100 | 100.6 | 90 | 110 | |
| As | 75 | 2 | He | 100.253 | 2.016 | 65472 | 1.33 | 100 | 100.3 | 90 | 110 | |
| Ca | 44 | 2 | He | 9773.072 | 1.547 | 259413 | 0.80 | 10000 | 97.7 | 90 | 110 | |
| Na | 23 | 2 | He | 9872.530 | 0.764 | 5073697 | 0.14 | 10000 | 98.7 | 90 | 110 | |
| Mg | 24 | 2 | He | 9770.101 | 2.697 | 2971097 | 1.96 | 10000 | 97.7 | 90 | 110 | |
| K | 39 | 2 | He | 9604.541 | 0.650 | 5523759 | 0.15 | 10000 | 96.0 | 90 | 110 | |
| Mn | 55 | 2 | He | 98.955 | 1.740 | 289014 | 0.98 | 100 | 99.0 | 90 | 110 | |
| Co | 59 | 2 | He | 97.560 | 0.676 | 438958 | 0.31 | 100 | 97.6 | 90 | 110 | |
| Ni | 60 | 2 | He | 105.299 | 0.674 | 116074 | 0.60 | 100 | 105.3 | 90 | 110 | |
| Cu | 63 | 2 | He | 99.606 | 1.960 | 267489 | 1.84 | 100 | 99.6 | 90 | 110 | |
| Zn | 66 | 2 | He | 102.425 | 1.817 | 66141 | 1.08 | 100 | 102.4 | 90 | 110 | |
| Al | 27 | 2 | He | 103.010 | 1.533 | 25734 | 1.11 | 100 | 103.0 | 90 | 110 | |
| B | 11 | 1 | No Gas | 502.614 | 0.681 | 460640 | 1.07 | 500 | 100.5 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 102.469 | 1.879 | 845338 | 0.58 | 100 | 102.5 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 622.028 | 5.067 | 3247137 | 6.67 | 5000 | 12.4 | 90 | 110 | CCV Main CR1-2 Failed |
| Ag | 107 | 1 | No Gas | 97.053 | 3.579 | 918642 | 1.26 | 100 | 97.1 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 96.120 | 2.564 | 182043 | 0.05 | 100 | 96.1 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 96.453 | 2.897 | 1932772 | 0.59 | 100 | 96.5 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 92.771 | 2.503 | 363476 | 0.87 | 100 | 92.8 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 98.217 | 2.310 | 579887 | 1.02 | 100 | 98.2 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 105.001 | 2.576 | 852703 | 0.92 | 100 | 105.0 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 97.058 | 2.799 | 335773 | 0.43 | 100 | 97.1 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 93.416 | 1.647 | 1294276 | 1.78 | 100 | 93.4 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 96.811 | 2.253 | 554871 | 0.61 | 100 | 96.8 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 97.208 | 1.543 | 1967513 | 1.57 | 100 | 97.2 | 90 | 110 | |
| U | 238 | 1 | No Gas | 101.122 | 2.379 | 1868900 | 1.74 | 100 | 101.1 | 90 | 110 | |
| Ca | 43 | 2 | He | 9504.727 | 0.283 | 15102 | 0.93 | 10000 | 95.0 | 90 | 110 | |
| Sb | 121 | 2 | He | 101.741 | 0.543 | 402144 | 0.96 | 100 | 101.7 | 90 | 110 | |
| Ti | 47 | 2 | He | 99.269 | 5.729 | 13550 | 5.80 | 100 | 99.3 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 99.117 | 2.272 | 617081 | 1.16 | 100 | 99.1 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 99.002 | 2.468 | 13743 | 4.01 | 100 | 99.0 | 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 | 380255 | 0.91 | 471023 | 80.73 | 70 | 120 | |
| Ge | 72 | 2 | He | 410599 | 0.77 | 472743 | 86.85 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1369135 | 2.30 | 1532243 | 89.35 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1678389 | 2.62 | 1782326 | 94.17 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1258076 | 2.60 | 1201520 | 104.71 | 70 | 120 | |

# Continuing Calibration Verification (CCV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCV |
| Data File Name | 202_CCV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:44:10-05:00 |
| Sample Type | CCV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| n | 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 | 96.599 | 0.643 | 502050 | 0.16 | 100 | 96.6 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 98.648 | 1.329 | 163740 | 1.27 | 100 | 98.6 | 90 | 110 | |
| V | 51 | 2 | He | 95.369 | 0.678 | 322629 | 0.48 | 100 | 95.4 | 90 | 110 | |
| Cr | 52 | 2 | He | 104.122 | 0.986 | 371989 | 0.21 | 100 | 104.1 | 90 | 110 | |
| Fe | 56 | 2 | He | 9999.339 | 0.768 | 30402910 | 0.87 | 10000 | 100.0 | 90 | 110 | |
| Se | 78 | 2 | He | 103.741 | 1.461 | 7605 | 1.04 | 100 | 103.7 | 90 | 110 | |
| As | 75 | 2 | He | 100.133 | 1.807 | 66293 | 1.41 | 100 | 100.1 | 90 | 110 | |
| Ca | 44 | 2 | He | 9725.017 | 0.830 | 261689 | 0.31 | 10000 | 97.3 | 90 | 110 | |
| Na | 23 | 2 | He | 9845.484 | 1.620 | 5128982 | 0.72 | 10000 | 98.5 | 90 | 110 | |
| Mg | 24 | 2 | He | 9705.663 | 1.073 | 2992205 | 0.16 | 10000 | 97.1 | 90 | 110 | |
| K | 39 | 2 | He | 9580.886 | 1.742 | 5585890 | 0.65 | 10000 | 95.8 | 90 | 110 | |
| Mn | 55 | 2 | He | 99.873 | 1.149 | 295704 | 0.78 | 100 | 99.9 | 90 | 110 | |
| Co | 59 | 2 | He | 98.815 | 0.640 | 450703 | 0.53 | 100 | 98.8 | 90 | 110 | |
| Ni | 60 | 2 | He | 106.309 | 2.092 | 118781 | 1.26 | 100 | 106.3 | 90 | 110 | |
| Cu | 63 | 2 | He | 100.005 | 0.532 | 272262 | 1.49 | 100 | 100.0 | 90 | 110 | |
| Zn | 66 | 2 | He | 101.183 | 0.238 | 66245 | 1.10 | 100 | 101.2 | 90 | 110 | |
| Al | 27 | 2 | He | 103.142 | 0.351 | 26121 | 1.46 | 100 | 103.1 | 90 | 110 | |
| B | 11 | 1 | No Gas | 508.064 | 0.376 | 463253 | 0.53 | 500 | 101.6 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 98.378 | 0.938 | 828613 | 1.80 | 100 | 98.4 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 583.249 | 0.939 | 3123307 | 0.86 | 5000 | 11.7 | 90 | 110 | CCV Main CR1-2 Failed |
| Ag | 107 | 1 | No Gas | 96.330 | 1.009 | 922015 | 0.87 | 100 | 96.3 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 95.142 | 1.562 | 182168 | 0.50 | 100 | 95.1 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 96.203 | 1.290 | 1949067 | 0.61 | 100 | 96.2 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 92.363 | 1.161 | 365855 | 0.75 | 100 | 92.4 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 98.882 | 0.557 | 590230 | 1.29 | 100 | 98.9 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 104.388 | 0.608 | 864118 | 0.91 | 100 | 104.4 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 96.992 | 0.947 | 339269 | 1.10 | 100 | 97.0 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 94.922 | 0.585 | 1331725 | 1.62 | 100 | 94.9 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 98.063 | 1.645 | 569151 | 0.61 | 100 | 98.1 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 98.298 | 0.792 | 2014671 | 1.53 | 100 | 98.3 | 90 | 110 | |
| U | 238 | 1 | No Gas | 100.003 | 1.452 | 1871560 | 1.22 | 100 | 100.0 | 90 | 110 | |
| Ca | 43 | 2 | He | 9574.721 | 1.449 | 15422 | 2.21 | 10000 | 95.7 | 90 | 110 | |
| Sb | 121 | 2 | He | 102.897 | 0.330 | 412283 | 0.90 | 100 | 102.9 | 90 | 110 | |
| Ti | 47 | 2 | He | 98.711 | 4.388 | 13657 | 4.02 | 100 | 98.7 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 98.549 | 1.032 | 625350 | 0.71 | 100 | 98.5 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 103.583 | 0.894 | 14640 | 2.21 | 100 | 103.6 | 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 | 378360 | 0.46 | 471023 | 80.33 | 70 | 120 | |
| Ge | 72 | 2 | He | 416236 | 1.13 | 472743 | 88.05 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1395155 | 1.36 | 1532243 | 91.05 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1696363 | 1.84 | 1782326 | 95.18 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1273797 | 2.20 | 1201520 | 106.02 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LCS-196608 |
| Data File Name | 208SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:56:50-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608Tl |
| ISTD Ref FileName | 085CALB.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 | 96.402 | 96.402 | 2.21 | 547361 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 49.021 | 49.021 | 2.07 | 88896 | 0.06 | 2000 | |
| V | 51 | 2 | He | 48.962 | 48.962 | 5.78 | 172130 | 0.03 | 2000 | |
| Cr | 52 | 2 | He | 49.911 | 49.911 | 5.08 | 185253 | 0.03 | 2000 | |
| Fe | 56 | 2 | He | 5140.871 | 5140.871 | 4.99 | 15686122 | 0.03 | 200000 | |
| Se | 78 | 2 | He | 52.103 | 52.103 | 5.31 | 3924 | 1.33 | 2000 | |
| As | 75 | 2 | He | 50.790 | 50.790 | 5.21 | 33895 | 0.15 | 2000 | |
| Ca | 44 | 2 | He | 5093.610 | 5093.610 | 4.80 | 137669 | 3.70 | 200000 | |
| Na | 23 | 2 | He | 5446.837 | 5446.837 | 5.14 | 2858214 | 0.19 | 200000 | |
| Mg | 24 | 2 | He | 5250.684 | 5250.684 | 5.83 | 1622904 | 0.32 | 200000 | |
| K | 39 | 2 | He | 5076.155 | 5076.155 | 5.55 | 3077160 | 0.16 | 200000 | |
| Mn | 55 | 2 | He | 50.650 | 50.650 | 3.77 | 150532 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 50.636 | 50.636 | 5.03 | 231510 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 51.391 | 51.391 | 3.76 | 57736 | 0.09 | 2000 | |
| Cu | 63 | 2 | He | 60.232 | 60.232 | 4.67 | 164444 | 0.04 | 2000 | |
| Zn | 66 | 2 | He | 58.100 | 58.100 | 5.35 | 38234 | 0.15 | 2000 | |
| Al | 27 | 2 | He | 108.092 | 108.092 | 5.38 | 27387 | 0.39 | 2000 | |
| B | 11 | 1 | No Gas | 483.122 | 483.122 | 2.08 | 481495 | 0.10 | 2000 | |
| Al | 27 | 1 | No Gas | 104.435 | 104.435 | 4.40 | 914241 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 506.639 | 506.639 | 2.50 | 2877660 | 0.02 | 2000 | |
| Ag | 107 | 1 | No Gas | 48.578 | 48.578 | 2.77 | 469094 | 0.01 | 2000 | |
| Cd | 111 | 1 | No Gas | 49.137 | 49.137 | 1.54 | 94861 | 0.05 | 2000 | |
| Sr | 88 | 1 | No Gas | 96.077 | 96.077 | 4.52 | 1961553 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 46.429 | 46.429 | 2.56 | 185716 | 0.03 | 2000 | |
| Sn | 118 | 1 | No Gas | 97.303 | 97.303 | 2.58 | 585470 | 0.02 | 2000 | |
| Sb | 121 | 1 | No Gas | 50.900 | 50.900 | 1.57 | 439491 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 48.816 | 48.816 | 3.05 | 172207 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 43.149 | 43.149 | 0.93 | 609341 | 0.01 | 2000 | |
| Tl | 203 | 1 | No Gas | 43.670 | 43.670 | 0.72 | 255150 | 0.02 | 2000 | |
| Pb | 208 | 1 | No Gas | 48.749 | 48.749 | 1.36 | 1005546 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 97.509 | 97.509 | 2.83 | 1835862 | 0.01 | 2000 | |
| Ca | 43 | 2 | He | 5172.120 | 5172.120 | 5.37 | 8383 | 61.70 | 200000 | |
| Sb | 121 | 2 | He | 50.849 | 50.849 | 4.94 | 204370 | 0.02 | 2000 | |
| Ti | 47 | 2 | He | 150.230 | 150.230 | 5.86 | 20823 | 0.72 | 2000 | |
| Cu | 63 | 1 | No Gas | 58.370 | 58.370 | 2.09 | 386445 | 0.02 | 2000 | |
| Zn | 66 | 1 | No Gas | 56.177 | 56.177 | 1.49 | 110026 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | 48.260 | 48.260 | 6.16 | 7231 | 0.67 | 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 | 413419 | 2.08 | 471023 | 87.77 | 70 | 120 | |
| Ge | 72 | 2 | He | 417852 | 4.87 | 472743 | 88.39 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1454202 | 1.60 | 1532243 | 94.91 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1710586 | 2.70 | 1782326 | 95.97 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1281436 | 0.87 | 1201520 | 106.65 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060722-06SD |
| Data File Name | 210SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T18:00:33-05:00 |
| Sample Type | Sample |
| Dilution | 25 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 4.695 | 117.378 | 2.18 | 50636 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.018 | 0.453 | 26.75 | 57 | 0.03 | 2000 | |
| V | 51 | 2 | He | 2.877 | 71.933 | 2.60 | 22002 | 0.01 | 2000 | |
| Cr | 52 | 2 | He | 0.318 | 7.947 | 39.65 | 13617 | 0.00 | 2000 | |
| Fe | 56 | 2 | He | -0.349 | -8.730 | -113.15 | 39009 | 0.00 | 200000 | |
| Se | 78 | 2 | He | -0.330 | -8.244 | -42.12 | 168 | -0.20 | 2000 | |
| As | 75 | 2 | He | -0.023 | -0.574 | -260.53 | 374 | -0.01 | 2000 | |
| Ca | 44 | 2 | He | 5229.630 | 130740.758 | 2.20 | 141478 | 3.70 | 200000 | |
| Na | 23 | 2 | He | 14151.974 | 353799.358 | 1.67 | 7385545 | 0.19 | 200000 | |
| Mg | 24 | 2 | He | 2612.986 | 65324.638 | 2.86 | 809656 | 0.32 | 200000 | |
| K | 39 | 2 | He | 10.314 | 257.862 | 46.87 | 241463 | 0.00 | 200000 | |
| Mn | 55 | 2 | He | 13.968 | 349.204 | 0.57 | 41784 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 0.091 | 2.270 | 18.75 | 463 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 1.496 | 37.400 | 6.41 | 1974 | 0.08 | 2000 | |
| Cu | 63 | 2 | He | 0.082 | 2.039 | 30.35 | 420 | 0.02 | 2000 | |
| Zn | 66 | 2 | He | 0.916 | 22.907 | 20.58 | 867 | 0.11 | 2000 | |
| Al | 27 | 2 | He | 0.501 | 12.517 | 87.15 | 1117 | 0.04 | 2000 | |
| B | 11 | 1 | No Gas | 4.027 | 100.665 | 9.45 | 9662 | 0.04 | 2000 | |
| Al | 27 | 1 | No Gas | 0.349 | 8.721 | 35.44 | 37782 | 0.00 | 2000 | |
| Si | 28 | 1 | No Gas | 568.017 | 14200.420 | 4.28 | 3130527 | 0.02 | 2000 | |
| Ag | 107 | 1 | No Gas | -0.071 | -1.778 | -2.45 | 103 | -0.07 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.009 | 0.215 | 93.33 | 6 | 0.14 | 2000 | |
| Sr | 88 | 1 | No Gas | 119.541 | 2988.520 | 3.20 | 2434988 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.083 | 2.086 | 110.68 | 984 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | -0.013 | -0.314 | -56.32 | 1057 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | -0.057 | -1.419 | -9.30 | 213 | -0.03 | 2000 | |
| Ba | 137 | 1 | No Gas | 1.198 | 29.958 | 5.42 | 4411 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 0.007 | 0.182 | 86.18 | 680 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | -0.004 | -0.099 | -154.45 | 193 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.002 | 0.062 | 284.21 | 810 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.089 | 2.226 | 10.92 | 2034 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 5254.832 | 131370.808 | 7.89 | 8516 | 61.70 | 200000 | |
| Sb | 121 | 2 | He | -0.054 | -1.339 | -13.47 | 100 | -0.05 | 2000 | |
| Ti | 47 | 2 | He | 0.041 | 1.030 | 268.92 | 23 | 0.18 | 2000 | |
| Cu | 63 | 1 | No Gas | 0.930 | 23.249 | 3.23 | 7079 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 0.895 | 22.367 | 7.97 | 2387 | 0.04 | 2000 | |
| Se | 82 | 1 | No Gas | -1.555 | -38.866 | -37.33 | 8 | -18.34 | 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 | 396294 | 1.37 | 471023 | 84.13 | 70 | 120 | |
| Ge | 72 | 2 | He | 417736 | 1.02 | 472743 | 88.36 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1432331 | 2.90 | 1532243 | 93.48 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1706349 | 2.72 | 1782326 | 95.74 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1252298 | 2.75 | 1201520 | 104.23 | 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\062823A.b |
| Acq Date Time | 2023-06-28T18:02:25-05:00 |
| Sample Type | CCV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| n | 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 | 97.557 | 1.557 | 533594 | 0.58 | 100 | 97.6 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 98.998 | 1.092 | 173019 | 0.37 | 100 | 99.0 | 90 | 110 | |
| V | 51 | 2 | He | 98.183 | 2.954 | 325619 | 1.14 | 100 | 98.2 | 90 | 110 | |
| Cr | 52 | 2 | He | 106.510 | 2.516 | 373203 | 0.72 | 100 | 106.5 | 90 | 110 | |
| Fe | 56 | 2 | He | 10068.033 | 2.975 | 30042527 | 1.15 | 10000 | 100.7 | 90 | 110 | |
| Se | 78 | 2 | He | 98.965 | 4.059 | 7129 | 2.17 | 100 | 99.0 | 90 | 110 | |
| As | 75 | 2 | He | 99.548 | 2.415 | 64691 | 0.65 | 100 | 99.5 | 90 | 110 | |
| Ca | 44 | 2 | He | 9917.441 | 1.666 | 261944 | 0.22 | 10000 | 99.2 | 90 | 110 | |
| Na | 23 | 2 | He | 10219.319 | 1.839 | 5224726 | 0.14 | 10000 | 102.2 | 90 | 110 | |
| Mg | 24 | 2 | He | 10091.116 | 2.749 | 3053373 | 0.99 | 10000 | 100.9 | 90 | 110 | |
| K | 39 | 2 | He | 9863.557 | 3.241 | 5637396 | 1.31 | 10000 | 98.6 | 90 | 110 | |
| Mn | 55 | 2 | He | 100.347 | 3.349 | 291578 | 1.53 | 100 | 100.3 | 90 | 110 | |
| Co | 59 | 2 | He | 100.134 | 2.130 | 448277 | 0.31 | 100 | 100.1 | 90 | 110 | |
| Ni | 60 | 2 | He | 106.465 | 2.660 | 116760 | 0.83 | 100 | 106.5 | 90 | 110 | |
| Cu | 63 | 2 | He | 100.599 | 2.439 | 268791 | 0.73 | 100 | 100.6 | 90 | 110 | |
| Zn | 66 | 2 | He | 102.647 | 1.525 | 65960 | 0.63 | 100 | 102.6 | 90 | 110 | |
| Al | 27 | 2 | He | 109.240 | 7.942 | 27078 | 5.83 | 100 | 109.2 | 90 | 110 | |
| B | 11 | 1 | No Gas | 511.057 | 1.013 | 490613 | 0.51 | 500 | 102.2 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 104.482 | 3.308 | 885489 | 0.51 | 100 | 104.5 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 614.263 | 1.325 | 3299657 | 1.68 | 5000 | 12.3 | 90 | 110 | CCV Main CR1-2 Failed |
| Ag | 107 | 1 | No Gas | 100.689 | 0.492 | 921211 | 1.34 | 100 | 100.7 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 99.142 | 0.759 | 181462 | 1.01 | 100 | 99.1 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 102.164 | 0.451 | 1978556 | 1.28 | 100 | 102.2 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 96.666 | 0.909 | 366013 | 2.01 | 100 | 96.7 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 101.425 | 0.269 | 578643 | 0.85 | 100 | 101.4 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 102.069 | 2.357 | 852427 | 0.64 | 100 | 102.1 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 100.595 | 0.835 | 336321 | 0.26 | 100 | 100.6 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 97.154 | 3.535 | 1270165 | 2.22 | 100 | 97.2 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 98.691 | 2.377 | 533912 | 1.26 | 100 | 98.7 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 99.818 | 1.429 | 1906903 | 1.31 | 100 | 99.8 | 90 | 110 | |
| U | 238 | 1 | No Gas | 101.420 | 2.504 | 1769013 | 0.53 | 100 | 101.4 | 90 | 110 | |
| Ca | 43 | 2 | He | 9747.919 | 5.610 | 15402 | 3.77 | 10000 | 97.5 | 90 | 110 | |
| Sb | 121 | 2 | He | 99.796 | 2.054 | 392474 | 0.24 | 100 | 99.8 | 90 | 110 | |
| Ti | 47 | 2 | He | 100.312 | 3.936 | 13620 | 2.13 | 100 | 100.3 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 100.983 | 1.735 | 646542 | 1.15 | 100 | 101.0 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 98.433 | 3.350 | 14046 | 2.73 | 100 | 98.4 | 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 | 398423 | 1.44 | 471023 | 84.59 | 70 | 120 | |
| Ge | 72 | 2 | He | 408631 | 1.81 | 472743 | 86.44 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1408076 | 2.87 | 1532243 | 91.90 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1621354 | 1.10 | 1782326 | 90.97 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1187488 | 2.69 | 1201520 | 98.83 | 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\062823A.b |
| Acq Date Time | 2023-06-28T18:04:14-05:00 |
| Sample Type | CCB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.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 | 0.495 | 4.5 | 30568 | 1.6 | 0.5 | |
| Be | 9 | 1 | No Gas | 0.063 | 11.8 | 142 | 10.8 | 0.5 | |
| V | 51 | 2 | He | -0.729 | -8.6 | 10248 | 0.8 | 2.5 | |
| Cr | 52 | 2 | He | 0.348 | 28.5 | 13740 | 2.1 | 2.5 | |
| Fe | 56 | 2 | He | -6.196 | -6.0 | 21208 | 4.7 | 100 | |
| Se | 78 | 2 | He | -0.155 | -198.4 | 181 | 11.7 | 2 | |
| As | 75 | 2 | He | -0.058 | -51.8 | 352 | 6.2 | 2.5 | |
| Ca | 44 | 2 | He | -1.186 | -64.2 | 517 | 4.0 | 100 | |
| Na | 23 | 2 | He | 220.007 | 1.6 | 145883 | 1.6 | 100 | CCB Main CR1 Failed |
| Mg | 24 | 2 | He | 1.335 | 27.6 | 2160 | 4.9 | 100 | |
| K | 39 | 2 | He | 6.004 | 124.3 | 239361 | 0.8 | 100 | |
| Mn | 55 | 2 | He | 0.068 | 37.3 | 523 | 14.1 | 2.5 | |
| Co | 59 | 2 | He | 0.011 | 52.1 | 97 | 26.0 | 2.5 | |
| Ni | 60 | 2 | He | -0.048 | -71.0 | 247 | 15.3 | 2.5 | |
| Cu | 63 | 2 | He | 0.084 | 14.5 | 427 | 7.5 | 2 | |
| Zn | 66 | 2 | He | 0.262 | 76.5 | 440 | 29.7 | 2.5 | |
| Al | 27 | 2 | He | -0.793 | -207.4 | 804 | 51.5 | 5 | |
| B | 11 | 1 | No Gas | 5.992 | 8.6 | 12170 | 3.1 | 0.5 | CCB Main CR1 Failed |
| Al | 27 | 1 | No Gas | -2.023 | -3.8 | 18009 | 5.0 | 5 | |
| Si | 28 | 1 | No Gas | -8.948 | -11.9 | 330085 | 1.7 | 10 | |
| Ag | 107 | 1 | No Gas | -0.057 | -7.1 | 230 | 15.7 | 2.5 | |
| Cd | 111 | 1 | No Gas | 0.012 | 71.1 | 12 | 127.7 | 1 | |
| Sr | 88 | 1 | No Gas | 0.000 | 1613.6 | 1270 | 6.4 | 2.5 | |
| Mo | 95 | 1 | No Gas | 0.074 | 124.2 | 920 | 38.7 | 2.5 | |
| Sn | 118 | 1 | No Gas | 0.095 | 45.8 | 1653 | 12.5 | 5 | |
| Sb | 121 | 1 | No Gas | -0.019 | -42.6 | 533 | 13.3 | 2.5 | |
| Ba | 137 | 1 | No Gas | 0.034 | 73.5 | 303 | 25.2 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.633 | 35.7 | 9137 | 32.3 | 1 | |
| Tl | 203 | 1 | No Gas | 0.619 | 33.9 | 3674 | 30.6 | 1 | |
| Pb | 208 | 1 | No Gas | 0.018 | 34.7 | 1107 | 10.0 | 2.5 | |
| U | 238 | 1 | No Gas | 0.004 | 92.1 | 460 | 15.2 | 2.5 | |
| Ca | 43 | 2 | He | -5.315 | -854.1 | 47 | 155.0 | 100 | |
| Sb | 121 | 2 | He | -0.008 | -216.8 | 283 | 23.0 | 2.5 | |
| Ti | 47 | 2 | He | -0.055 | -130.7 | 10 | 100.0 | 2.5 | |
| Cu | 63 | 1 | No Gas | 1.115 | 3.4 | 8226 | 0.5 | 2.5 | |
| Se | 82 | 1 | No Gas | -0.728 | -47.4 | 126 | 40.3 | 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 | 418851 | 1.28 | 471023 | 88.92 | 70 | 120 | |
| Ge | 72 | 2 | He | 418310 | 1.20 | 472743 | 88.49 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1422163 | 2.61 | 1532243 | 92.82 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1661472 | 2.86 | 1782326 | 93.22 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1232041 | 1.48 | 1201520 | 102.54 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060722-06PDS |
| Data File Name | 213SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T18:06:07-05:00 |
| Sample Type | Sample |
| Dilution | 5 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 21.080 | 105.400 | 1.73 | 137726 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 98.474 | 492.371 | 2.59 | 174170 | 0.06 | 2000 | |
| V | 51 | 2 | He | 97.846 | 489.232 | 1.34 | 332513 | 0.03 | 2000 | |
| Cr | 52 | 2 | He | 97.618 | 488.091 | 0.34 | 351492 | 0.03 | 2000 | |
| Fe | 56 | 2 | He | 9997.528 | 49987.639 | 0.82 | 30566154 | 0.03 | 200000 | |
| Se | 78 | 2 | He | 98.080 | 490.398 | 1.59 | 7241 | 1.35 | 2000 | |
| As | 75 | 2 | He | 100.209 | 501.045 | 0.73 | 66716 | 0.15 | 2000 | |
| Ca | 44 | 2 | He | 35937.282 | 179686.408 | 2.35 | 970841 | 3.70 | 200000 | |
| Na | 23 | 2 | He | 78908.508 | 394542.538 | 0.92 | 41118874 | 0.19 | 200000 | |
| Mg | 24 | 2 | He | 22229.790 | 111148.952 | 1.32 | 6889528 | 0.32 | 200000 | |
| K | 39 | 2 | He | 10025.566 | 50127.831 | 0.74 | 5867083 | 0.17 | 200000 | |
| Mn | 55 | 2 | He | 165.770 | 828.848 | 1.15 | 493341 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 98.053 | 490.263 | 1.60 | 449689 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 104.397 | 521.986 | 0.30 | 117315 | 0.09 | 2000 | |
| Cu | 63 | 2 | He | 97.571 | 487.855 | 1.26 | 267088 | 0.04 | 2000 | |
| Zn | 66 | 2 | He | 100.872 | 504.362 | 0.95 | 66409 | 0.15 | 2000 | |
| Al | 27 | 2 | He | 102.177 | 510.885 | 1.27 | 26028 | 0.39 | 2000 | |
| B | 11 | 1 | No Gas | 8.476 | 42.380 | 1.76 | 14106 | 0.06 | 2000 | |
| Al | 27 | 1 | No Gas | 102.023 | 510.117 | 2.34 | 873452 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 2983.358 | 14916.791 | 1.96 | 14730552 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | 99.511 | 497.554 | 2.26 | 915222 | 0.01 | 2000 | |
| Cd | 111 | 1 | No Gas | 99.104 | 495.521 | 2.10 | 182359 | 0.05 | 2000 | |
| Sr | 88 | 1 | No Gas | 589.903 | 2949.516 | 2.60 | 11477844 | 0.01 | 2000 | |
| Mo | 95 | 1 | No Gas | 97.973 | 489.866 | 2.20 | 372891 | 0.03 | 2000 | |
| Sn | 118 | 1 | No Gas | -0.002 | -0.008 | -841.84 | 1073 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | 99.117 | 495.587 | 1.71 | 835376 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 106.357 | 531.787 | 2.32 | 357465 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 106.680 | 533.401 | 1.41 | 1389707 | 0.01 | 2000 | |
| Tl | 203 | 1 | No Gas | 109.795 | 548.974 | 0.30 | 591794 | 0.02 | 2000 | |
| Pb | 208 | 1 | No Gas | 99.247 | 496.233 | 0.21 | 1888873 | 0.01 | 2000 | |
| U | 238 | 1 | No Gas | 0.470 | 2.352 | 2.96 | 8543 | 0.01 | 2000 | |
| Ca | 43 | 2 | He | 35238.496 | 176192.479 | 0.84 | 56925 | 61.90 | 200000 | |
| Sb | 121 | 2 | He | 96.707 | 483.534 | 1.69 | 389638 | 0.02 | 2000 | |
| Ti | 47 | 2 | He | 101.886 | 509.431 | 2.78 | 14174 | 0.72 | 2000 | |
| Cu | 63 | 1 | No Gas | 101.477 | 507.383 | 1.87 | 655548 | 0.02 | 2000 | |
| Zn | 66 | 1 | No Gas | 100.180 | 500.898 | 1.11 | 191160 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | 95.225 | 476.124 | 4.24 | 13715 | 0.69 | 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 | 403255 | 1.40 | 471023 | 85.61 | 70 | 120 | |
| Ge | 72 | 2 | He | 418548 | 1.02 | 472743 | 88.54 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1420593 | 1.85 | 1532243 | 92.71 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1630607 | 2.90 | 1782326 | 91.49 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1182727 | 0.35 | 1201520 | 98.44 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060999-02 |
| Data File Name | 214SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T18:15:50-05:00 |
| Sample Type | Sample |
| Dilution | 20 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 9.334 | 186.685 | 1.79 | 77984 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.011 | 0.224 | 38.41 | 47 | 0.02 | 2000 | |
| V | 51 | 2 | He | -0.162 | -3.249 | -1.00 | 12014 | 0.00 | 2000 | |
| Cr | 52 | 2 | He | 0.602 | 12.031 | 36.23 | 14521 | 0.00 | 2000 | |
| Fe | 56 | 2 | He | 480.605 | 9612.106 | 3.33 | 1495798 | 0.03 | 200000 | |
| Se | 78 | 2 | He | -0.100 | -2.008 | -129.00 | 183 | -0.05 | 2000 | |
| As | 75 | 2 | He | 0.213 | 4.268 | 30.05 | 528 | 0.04 | 2000 | |
| Ca | 44 | 2 | He | 4914.689 | 98293.781 | 2.61 | 132220 | 3.72 | 200000 | |
| Na | 23 | 2 | He | 10694.726 | 213894.527 | 2.49 | 5556481 | 0.19 | 200000 | |
| Mg | 24 | 2 | He | 983.525 | 19670.499 | 2.74 | 304091 | 0.32 | 200000 | |
| K | 39 | 2 | He | 4957.081 | 99141.626 | 2.12 | 2996933 | 0.17 | 200000 | |
| Mn | 55 | 2 | He | 32.328 | 646.558 | 1.88 | 95720 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 0.094 | 1.888 | 9.52 | 477 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 0.202 | 4.041 | 23.18 | 523 | 0.04 | 2000 | |
| Cu | 63 | 2 | He | 0.100 | 1.998 | 48.89 | 467 | 0.02 | 2000 | |
| Zn | 66 | 2 | He | 0.415 | 8.300 | 25.89 | 537 | 0.08 | 2000 | |
| Al | 27 | 2 | He | 1.039 | 20.771 | 49.94 | 1240 | 0.08 | 2000 | |
| B | 11 | 1 | No Gas | 8.610 | 172.194 | 6.02 | 14618 | 0.06 | 2000 | |
| Al | 27 | 1 | No Gas | 0.905 | 18.110 | 18.69 | 42030 | 0.00 | 2000 | |
| Si | 28 | 1 | No Gas | 531.149 | 10622.987 | 2.38 | 2926502 | 0.02 | 2000 | |
| Ag | 107 | 1 | No Gas | -0.064 | -1.288 | -8.13 | 167 | -0.04 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.001 | 0.023 | 985.10 | -8 | -0.01 | 2000 | |
| Sr | 88 | 1 | No Gas | 80.114 | 1602.284 | 2.55 | 1617761 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.107 | 2.140 | 8.72 | 1067 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | -0.030 | -0.593 | -40.00 | 947 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.247 | 4.934 | 14.68 | 2760 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 24.820 | 496.407 | 1.54 | 86671 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 0.008 | 0.167 | 74.24 | 730 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 0.016 | 0.323 | 26.88 | 323 | 0.01 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.012 | 0.249 | 42.05 | 1060 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | -0.015 | -0.309 | -8.52 | 113 | -0.01 | 2000 | |
| Ca | 43 | 2 | He | 4854.172 | 97083.435 | 1.80 | 7829 | 62.00 | 200000 | |
| Sb | 121 | 2 | He | 0.168 | 3.355 | 13.49 | 983 | 0.02 | 2000 | |
| Ti | 47 | 2 | He | 0.042 | 0.835 | 99.98 | 23 | 0.18 | 2000 | |
| Cu | 63 | 1 | No Gas | 0.776 | 15.526 | 3.77 | 6028 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 0.411 | 8.214 | 14.35 | 1447 | 0.03 | 2000 | |
| Se | 82 | 1 | No Gas | -0.816 | -16.319 | -36.91 | 112 | -0.73 | 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 | 414139 | 0.60 | 471023 | 87.92 | 70 | 120 | |
| Ge | 72 | 2 | He | 415321 | 0.74 | 472743 | 87.85 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1419449 | 2.02 | 1532243 | 92.64 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1690656 | 1.36 | 1782326 | 94.86 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1318281 | 4.71 | 1201520 | 109.72 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060999-04 |
| Data File Name | 215SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T18:17:44-05:00 |
| Sample Type | Sample |
| Dilution | 20 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 9.460 | 189.196 | 2.10 | 78526 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.100 | 2.009 | 14.34 | 208 | 0.05 | 2000 | |
| V | 51 | 2 | He | -1.157 | -23.148 | -5.06 | 8832 | -0.01 | 2000 | |
| Cr | 52 | 2 | He | 1.989 | 39.788 | 5.88 | 19397 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 5312.402 | 106248.036 | 0.34 | 16218612 | 0.03 | 200000 | |
| Se | 78 | 2 | He | -0.346 | -6.926 | -49.42 | 167 | -0.21 | 2000 | |
| As | 75 | 2 | He | 0.032 | 0.649 | 273.76 | 411 | 0.01 | 2000 | |
| Ca | 44 | 2 | He | 5504.627 | 110092.537 | 1.42 | 148804 | 3.70 | 200000 | |
| Na | 23 | 2 | He | 24113.923 | 482278.458 | 0.70 | 12554658 | 0.19 | 200000 | |
| Mg | 24 | 2 | He | 3630.492 | 72609.837 | 1.49 | 1123697 | 0.32 | 200000 | |
| K | 39 | 2 | He | 612.644 | 12252.871 | 1.12 | 578729 | 0.11 | 200000 | |
| Mn | 55 | 2 | He | 236.909 | 4738.182 | 0.75 | 703088 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 1.279 | 25.584 | 7.91 | 5898 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 4.396 | 87.920 | 0.40 | 5214 | 0.08 | 2000 | |
| Cu | 63 | 2 | He | 0.260 | 5.203 | 11.52 | 907 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 18.985 | 379.700 | 2.36 | 12683 | 0.15 | 2000 | |
| Al | 27 | 2 | He | 5.677 | 113.536 | 3.97 | 2380 | 0.24 | 2000 | |
| B | 11 | 1 | No Gas | 5.333 | 106.656 | 7.01 | 11371 | 0.05 | 2000 | |
| Al | 27 | 1 | No Gas | 5.680 | 113.596 | 5.83 | 81774 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 628.933 | 12578.651 | 1.55 | 3419394 | 0.02 | 2000 | |
| Ag | 107 | 1 | No Gas | -0.067 | -1.334 | -8.37 | 143 | -0.05 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.047 | 0.940 | 23.75 | 79 | 0.06 | 2000 | |
| Sr | 88 | 1 | No Gas | 117.636 | 2352.729 | 3.14 | 2355857 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | -0.005 | -0.095 | -485.19 | 620 | 0.00 | 2000 | |
| Sn | 118 | 1 | No Gas | -0.054 | -1.087 | -5.93 | 793 | -0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.021 | 0.427 | 32.37 | 873 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 10.958 | 219.151 | 1.83 | 38069 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | -0.032 | -0.638 | -8.06 | 140 | -0.02 | 2000 | |
| Tl | 203 | 1 | No Gas | -0.021 | -0.426 | -20.55 | 93 | -0.02 | 2000 | |
| Pb | 208 | 1 | No Gas | -0.005 | -0.102 | -90.30 | 650 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | -0.019 | -0.372 | -2.67 | 50 | -0.04 | 2000 | |
| Ca | 43 | 2 | He | 5333.186 | 106663.716 | 1.48 | 8640 | 61.73 | 200000 | |
| Sb | 121 | 2 | He | 0.017 | 0.341 | 53.78 | 383 | 0.00 | 2000 | |
| Ti | 47 | 2 | He | 0.209 | 4.187 | 71.85 | 47 | 0.45 | 2000 | |
| Cu | 63 | 1 | No Gas | 1.671 | 33.428 | 6.07 | 11882 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 18.780 | 375.603 | 1.00 | 36586 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | -0.777 | -15.536 | -48.15 | 119 | -0.65 | 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 | 413452 | 1.38 | 471023 | 87.78 | 70 | 120 | |
| Ge | 72 | 2 | He | 417443 | 0.32 | 472743 | 88.30 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1428691 | 1.59 | 1532243 | 93.24 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1677688 | 2.83 | 1782326 | 94.13 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1241703 | 1.90 | 1201520 | 103.34 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060999-05 |
| Data File Name | 216SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T18:19:36-05:00 |
| Sample Type | Sample |
| Dilution | 20 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 2.870 | 57.402 | 2.86 | 43870 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.013 | 0.250 | 94.40 | 50 | 0.03 | 2000 | |
| V | 51 | 2 | He | -0.845 | -16.898 | -10.15 | 9919 | -0.01 | 2000 | |
| Cr | 52 | 2 | He | 0.233 | 4.655 | 13.88 | 13410 | 0.00 | 2000 | |
| Fe | 56 | 2 | He | 244.102 | 4882.044 | 1.24 | 788968 | 0.03 | 200000 | |
| Se | 78 | 2 | He | -0.464 | -9.272 | -36.47 | 159 | -0.29 | 2000 | |
| As | 75 | 2 | He | 0.257 | 5.139 | 34.57 | 563 | 0.05 | 2000 | |
| Ca | 44 | 2 | He | 692.412 | 13848.238 | 2.66 | 19334 | 3.58 | 200000 | |
| Na | 23 | 2 | He | 14624.436 | 292488.727 | 1.42 | 7680249 | 0.19 | 200000 | |
| Mg | 24 | 2 | He | 395.176 | 7903.515 | 1.22 | 124744 | 0.32 | 200000 | |
| K | 39 | 2 | He | 144.333 | 2886.662 | 4.15 | 318633 | 0.05 | 200000 | |
| Mn | 55 | 2 | He | 4.321 | 86.424 | 1.81 | 13233 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 0.032 | 0.633 | 31.03 | 193 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 0.006 | 0.128 | 1385.36 | 310 | 0.00 | 2000 | |
| Cu | 63 | 2 | He | 0.050 | 1.010 | 50.03 | 337 | 0.01 | 2000 | |
| Zn | 66 | 2 | He | 0.269 | 5.377 | 6.29 | 447 | 0.06 | 2000 | |
| Al | 27 | 2 | He | 1.217 | 24.343 | 35.36 | 1300 | 0.09 | 2000 | |
| B | 11 | 1 | No Gas | 71.000 | 1419.997 | 0.79 | 77565 | 0.09 | 2000 | |
| Al | 27 | 1 | No Gas | 0.995 | 19.905 | 22.81 | 43266 | 0.00 | 2000 | |
| Si | 28 | 1 | No Gas | 566.783 | 11335.657 | 2.86 | 3133318 | 0.02 | 2000 | |
| Ag | 107 | 1 | No Gas | -0.065 | -1.297 | -6.18 | 160 | -0.04 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.035 | 0.710 | 47.90 | 56 | 0.06 | 2000 | |
| Sr | 88 | 1 | No Gas | 30.018 | 600.366 | 1.87 | 600179 | 0.01 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.027 | 0.543 | 302.56 | 747 | 0.00 | 2000 | |
| Sn | 118 | 1 | No Gas | -0.050 | -0.999 | -33.84 | 817 | -0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | -0.023 | -0.454 | -21.37 | 503 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 6.141 | 122.823 | 3.82 | 21341 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | -0.033 | -0.668 | -7.13 | 120 | -0.03 | 2000 | |
| Tl | 203 | 1 | No Gas | -0.028 | -0.555 | -14.02 | 57 | -0.05 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.001 | 0.010 | 513.11 | 763 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | -0.015 | -0.292 | -16.08 | 123 | -0.01 | 2000 | |
| Ca | 43 | 2 | He | 644.285 | 12885.706 | 6.16 | 1100 | 58.57 | 200000 | |
| Sb | 121 | 2 | He | -0.018 | -0.365 | -60.09 | 243 | -0.01 | 2000 | |
| Ti | 47 | 2 | He | 0.159 | 3.181 | 44.52 | 40 | 0.40 | 2000 | |
| Cu | 63 | 1 | No Gas | 1.350 | 26.992 | 1.78 | 9837 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 0.521 | 10.415 | 3.62 | 1677 | 0.03 | 2000 | |
| Se | 82 | 1 | No Gas | -0.718 | -14.363 | -72.39 | 129 | -0.56 | 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 | 421945 | 1.02 | 471023 | 89.58 | 70 | 120 | |
| Ge | 72 | 2 | He | 420418 | 0.77 | 472743 | 88.93 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1435725 | 1.88 | 1532243 | 93.70 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1671753 | 1.82 | 1782326 | 93.80 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1243516 | 2.64 | 1201520 | 103.50 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060999-07 |
| Data File Name | 217SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T18:21:29-05:00 |
| Sample Type | Sample |
| Dilution | 20 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 25.609 | 512.174 | 2.49 | 167064 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 0.000 | 0.001 | 2774.28 | 27 | 0.00 | 2000 | |
| V | 51 | 2 | He | -0.649 | -12.988 | -11.21 | 10609 | -0.01 | 2000 | |
| Cr | 52 | 2 | He | 3.353 | 67.052 | 2.29 | 24399 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | -2.978 | -59.564 | -8.21 | 31327 | -0.01 | 200000 | |
| Se | 78 | 2 | He | -0.300 | -5.992 | -5.47 | 172 | -0.17 | 2000 | |
| As | 75 | 2 | He | -0.003 | -0.062 | -2405.29 | 392 | 0.00 | 2000 | |
| Ca | 44 | 2 | He | 1553.726 | 31074.511 | 1.30 | 42887 | 3.62 | 200000 | |
| Na | 23 | 2 | He | 14924.178 | 298483.557 | 0.65 | 7872421 | 0.19 | 200000 | |
| Mg | 24 | 2 | He | 25.252 | 505.031 | 3.96 | 9657 | 0.26 | 200000 | |
| K | 39 | 2 | He | 16810.774 | 336215.480 | 0.57 | 9765007 | 0.17 | 200000 | |
| Mn | 55 | 2 | He | 0.458 | 9.169 | 17.60 | 1700 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 0.016 | 0.326 | 27.39 | 123 | 0.01 | 2000 | |
| Ni | 60 | 2 | He | 0.003 | 0.055 | 1568.27 | 307 | 0.00 | 2000 | |
| Cu | 63 | 2 | He | 0.072 | 1.433 | 34.08 | 397 | 0.02 | 2000 | |
| Zn | 66 | 2 | He | 0.371 | 7.426 | 33.80 | 517 | 0.07 | 2000 | |
| Al | 27 | 2 | He | 4.957 | 99.150 | 10.75 | 2230 | 0.22 | 2000 | |
| B | 11 | 1 | No Gas | 6.858 | 137.160 | 1.79 | 12983 | 0.05 | 2000 | |
| Al | 27 | 1 | No Gas | 4.487 | 89.739 | 3.59 | 72683 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 319.359 | 6387.177 | 3.05 | 1940854 | 0.02 | 2000 | |
| Ag | 107 | 1 | No Gas | -0.070 | -1.407 | -5.21 | 110 | -0.06 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.012 | 0.243 | 53.55 | 13 | 0.09 | 2000 | |
| Sr | 88 | 1 | No Gas | 139.649 | 2792.988 | 1.23 | 2826991 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.172 | 3.432 | 77.01 | 1324 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | -0.052 | -1.050 | -38.06 | 813 | -0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | -0.031 | -0.624 | -9.06 | 433 | -0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 10.605 | 212.096 | 1.66 | 37244 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | -0.037 | -0.740 | -6.82 | 70 | -0.05 | 2000 | |
| Tl | 203 | 1 | No Gas | -0.031 | -0.614 | -9.91 | 40 | -0.08 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.003 | 0.062 | 268.46 | 807 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | -0.020 | -0.390 | -1.49 | 33 | -0.06 | 2000 | |
| Ca | 43 | 2 | He | 1626.486 | 32529.710 | 7.28 | 2704 | 60.16 | 200000 | |
| Sb | 121 | 2 | He | -0.006 | -0.124 | -27.55 | 293 | 0.00 | 2000 | |
| Ti | 47 | 2 | He | 0.205 | 4.096 | 71.27 | 47 | 0.44 | 2000 | |
| Cu | 63 | 1 | No Gas | 1.343 | 26.854 | 2.57 | 9850 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 0.429 | 8.581 | 14.93 | 1507 | 0.03 | 2000 | |
| Se | 82 | 1 | No Gas | -0.994 | -19.887 | -11.79 | 89 | -1.12 | 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 | 417115 | 2.55 | 471023 | 88.56 | 70 | 120 | |
| Ge | 72 | 2 | He | 422288 | 0.64 | 472743 | 89.33 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1444275 | 3.97 | 1532243 | 94.26 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1695034 | 1.21 | 1782326 | 95.10 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1232131 | 1.46 | 1201520 | 102.55 | 70 | 120 | |

# Continuing Calibration Verification (CCV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCV |
| Data File Name | 222_CCV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T18:33:00-05:00 |
| Sample Type | CCV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| n | 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 | 99.646 | 1.919 | 568274 | 1.07 | 100 | 99.6 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 100.640 | 1.318 | 183583 | 0.60 | 100 | 100.6 | 90 | 110 | |
| V | 51 | 2 | He | 101.099 | 2.386 | 343240 | 0.86 | 100 | 101.1 | 90 | 110 | |
| Cr | 52 | 2 | He | 103.423 | 1.868 | 371755 | 0.65 | 100 | 103.4 | 90 | 110 | |
| Fe | 56 | 2 | He | 10287.494 | 1.744 | 31461726 | 0.79 | 10000 | 102.9 | 90 | 110 | |
| Se | 78 | 2 | He | 101.701 | 3.998 | 7502 | 2.41 | 100 | 101.7 | 90 | 110 | |
| As | 75 | 2 | He | 100.388 | 2.173 | 66851 | 0.84 | 100 | 100.4 | 90 | 110 | |
| Ca | 44 | 2 | He | 10104.786 | 3.570 | 273442 | 2.18 | 10000 | 101.0 | 90 | 110 | |
| Na | 23 | 2 | He | 10363.568 | 2.334 | 5429309 | 1.63 | 10000 | 103.6 | 90 | 110 | |
| Mg | 24 | 2 | He | 10252.301 | 0.874 | 3179629 | 1.02 | 10000 | 102.5 | 90 | 110 | |
| K | 39 | 2 | He | 9984.860 | 2.390 | 5845694 | 0.67 | 10000 | 99.8 | 90 | 110 | |
| Mn | 55 | 2 | He | 101.900 | 1.024 | 303507 | 1.14 | 100 | 101.9 | 90 | 110 | |
| Co | 59 | 2 | He | 102.949 | 2.352 | 472281 | 0.75 | 100 | 102.9 | 90 | 110 | |
| Ni | 60 | 2 | He | 102.311 | 1.673 | 115009 | 0.73 | 100 | 102.3 | 90 | 110 | |
| Cu | 63 | 2 | He | 103.846 | 1.220 | 284380 | 1.27 | 100 | 103.8 | 90 | 110 | |
| Zn | 66 | 2 | He | 102.453 | 1.429 | 67474 | 1.94 | 100 | 102.5 | 90 | 110 | |
| Al | 27 | 2 | He | 101.312 | 3.540 | 25824 | 2.89 | 100 | 101.3 | 90 | 110 | |
| B | 11 | 1 | No Gas | 506.052 | 0.445 | 507141 | 0.32 | 500 | 101.2 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 102.980 | 0.671 | 902515 | 1.68 | 100 | 103.0 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 490.677 | 2.443 | 2799353 | 1.17 | 5000 | 9.8 | 90 | 110 | CCV Main CR1-2 Failed |
| Ag | 107 | 1 | No Gas | 99.029 | 2.049 | 962255 | 0.35 | 100 | 99.0 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 99.882 | 2.296 | 194161 | 0.15 | 100 | 99.9 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 98.713 | 1.416 | 2030621 | 1.02 | 100 | 98.7 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 95.582 | 1.961 | 384361 | 0.60 | 100 | 95.6 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 100.080 | 2.241 | 606415 | 0.24 | 100 | 100.1 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 99.219 | 0.891 | 856185 | 0.58 | 100 | 99.2 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 98.790 | 1.685 | 350832 | 0.82 | 100 | 98.8 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 106.806 | 1.060 | 1453445 | 1.63 | 100 | 106.8 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 109.281 | 0.306 | 615279 | 0.66 | 100 | 109.3 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 99.554 | 1.034 | 1979221 | 1.54 | 100 | 99.6 | 90 | 110 | |
| U | 238 | 1 | No Gas | 100.425 | 1.035 | 1823152 | 0.91 | 100 | 100.4 | 90 | 110 | |
| Ca | 43 | 2 | He | 10079.227 | 3.350 | 16330 | 4.04 | 10000 | 100.8 | 90 | 110 | |
| Sb | 121 | 2 | He | 98.264 | 1.822 | 396029 | 0.23 | 100 | 98.3 | 90 | 110 | |
| Ti | 47 | 2 | He | 102.297 | 3.572 | 14234 | 2.03 | 100 | 102.3 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 102.217 | 0.730 | 676108 | 0.31 | 100 | 102.2 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 94.700 | 2.735 | 13969 | 1.94 | 100 | 94.7 | 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 | 415839 | 0.75 | 471023 | 88.28 | 70 | 120 | |
| Ge | 72 | 2 | He | 418748 | 1.85 | 472743 | 88.58 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1454310 | 1.03 | 1532243 | 94.91 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1722554 | 2.42 | 1782326 | 96.65 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1235439 | 0.65 | 1201520 | 102.82 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCB |
| Data File Name | 223_CCB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T18:34:50-05:00 |
| Sample Type | CCB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.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 | 0.408 | 30.5 | 30922 | 3.4 | 0.5 | |
| Be | 9 | 1 | No Gas | 0.052 | 25.3 | 125 | 18.3 | 0.5 | |
| V | 51 | 2 | He | -1.085 | -5.9 | 9236 | 1.1 | 2.5 | |
| Cr | 52 | 2 | He | 0.311 | 7.3 | 13841 | 0.9 | 2.5 | |
| Fe | 56 | 2 | He | -5.085 | -12.7 | 25019 | 8.2 | 100 | |
| Se | 78 | 2 | He | -0.082 | -456.3 | 189 | 15.7 | 2 | |
| As | 75 | 2 | He | -0.023 | -109.9 | 381 | 3.6 | 2.5 | |
| Ca | 44 | 2 | He | -3.680 | -40.9 | 457 | 8.3 | 100 | |
| Na | 23 | 2 | He | 136.070 | 3.6 | 103895 | 1.4 | 100 | CCB Main CR1 Failed |
| Mg | 24 | 2 | He | 0.583 | 59.9 | 1960 | 5.9 | 100 | |
| K | 39 | 2 | He | -1.011 | -442.4 | 239379 | 0.2 | 100 | |
| Mn | 55 | 2 | He | 0.044 | 26.4 | 460 | 7.8 | 2.5 | |
| Co | 59 | 2 | He | 0.016 | 31.6 | 123 | 20.4 | 2.5 | |
| Ni | 60 | 2 | He | 0.000 | 10897.4 | 307 | 19.1 | 2.5 | |
| Cu | 63 | 2 | He | 0.037 | 69.4 | 303 | 23.8 | 2 | |
| Zn | 66 | 2 | He | 0.256 | 23.4 | 443 | 9.1 | 2.5 | |
| Al | 27 | 2 | He | -1.532 | -40.0 | 630 | 24.0 | 5 | |
| B | 11 | 1 | No Gas | 4.334 | 5.7 | 10809 | 1.8 | 0.5 | CCB Main CR1 Failed |
| Al | 27 | 1 | No Gas | -1.984 | -4.0 | 19140 | 1.3 | 5 | |
| Si | 28 | 1 | No Gas | -10.920 | -6.8 | 335029 | 1.9 | 10 | |
| Ag | 107 | 1 | No Gas | -0.053 | -9.8 | 277 | 18.2 | 2.5 | |
| Cd | 111 | 1 | No Gas | 0.010 | 149.2 | 9 | 322.9 | 1 | |
| Sr | 88 | 1 | No Gas | -0.008 | -91.9 | 1140 | 12.3 | 2.5 | |
| Mo | 95 | 1 | No Gas | -0.008 | -36.8 | 627 | 1.8 | 2.5 | |
| Sn | 118 | 1 | No Gas | 0.042 | 28.2 | 1397 | 6.4 | 5 | |
| Sb | 121 | 1 | No Gas | 0.432 | 16.0 | 4521 | 12.1 | 2.5 | |
| Ba | 137 | 1 | No Gas | 0.055 | 28.9 | 393 | 14.0 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.046 | 58.5 | 1210 | 28.7 | 1 | |
| Tl | 203 | 1 | No Gas | 0.065 | 14.3 | 583 | 7.1 | 1 | |
| Pb | 208 | 1 | No Gas | 0.018 | 19.7 | 1110 | 6.8 | 2.5 | |
| U | 238 | 1 | No Gas | 0.004 | 176.2 | 460 | 24.5 | 2.5 | |
| Ca | 43 | 2 | He | -14.182 | -66.9 | 33 | 45.8 | 100 | |
| Sb | 121 | 2 | He | 0.350 | 5.8 | 1753 | 3.7 | 2.5 | |
| Ti | 47 | 2 | He | -0.104 | -38.7 | 3 | 173.2 | 2.5 | |
| Cu | 63 | 1 | No Gas | 1.263 | 5.6 | 9590 | 2.6 | 2.5 | |
| Se | 82 | 1 | No Gas | -1.308 | -5.3 | 45 | 25.8 | 2 | |

**QC ISTD Table**

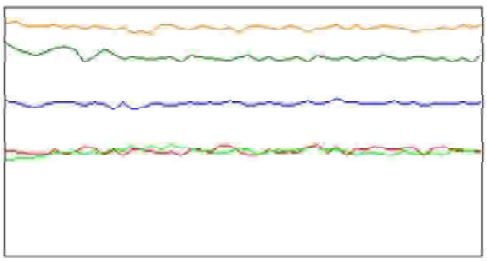
| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 430378 | 1.39 | 471023 | 91.37 | 70 | 120 | |
| Ge | 72 | 2 | He | 425320 | 1.25 | 472743 | 89.97 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1486137 | 2.63 | 1532243 | 96.99 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1723412 | 2.47 | 1782326 | 96.69 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1250925 | 1.91 | 1201520 | 104.11 | 70 | 120 | |

# Tune Check Report

| | |
|---|---|
| **Operator Name** | ALSHS NoUser |
| **Acq/Data Batch** | C:\Agilent\ICPMH\1\DATA\062823A.b |
| **Acq. Date-Time** | 6/28/2023 9:49:00 AM |
| **Report Comment** | --- |
| **Instrument Name** | G8421A SG18523544 |

**[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 | 2131 | 21308.80 | | |
| 24 | 50000 | 21109 | 211089.46 | | |
| 59 | 20000 | 12327 | 123274.98 | | |
| 115 | 20000 | 18500 | 185000.79 | | |
| 208 | 10000 | 8080 | 80799.07 | | |

| Mass | Resp Ratio | Resp Ratio (Required) | Resp Ratio (Flag) |
|---|---|---|---|
| 9 | | - | |
| 24 | | - | |
| 59 | | - | |
| 115 | | - | |
| 208 | | - | |

| Mass | RSD% | RSD% (Required) | RSD% (Flag) |
|---|---|---|---|
| 9 | 2.651 | 5.000 | |
| 24 | 2.972 | 5.000 | |
| 59 | 1.315 | 5.000 | |
| 115 | 1.139 | 5.000 | |
| 208 | 2.111 | 5.000 | |

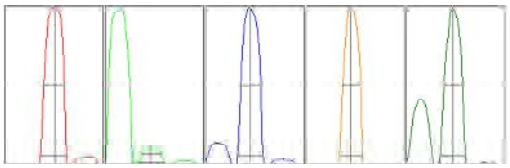
| Mass | Background | Background (Required) | Background (Flag) |
|---|---|---|---|
| 9 | 1.800 | | |
| 24 | 1.600 | | |
| 59 | 1.500 | | |
| 115 | 1.900 | | |
| 208 | 5.000 | | |

**Oxide/Doubly Charged Ratio**

| | |
|---|---|
| Oxide | 156 / 140 1.735 % |
| Doubly Charged | 70 / 140 0.883 % |

# 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 | 2139.95 | 9.05 | 8.90 - 9.10 | |
| 24 | 20388.59 | 23.90 | 23.90 - 24.10 | |
| 59 | 12575.07 | 58.90 | 58.90 - 59.10 | |
| 115 | 19196.56 | 114.90 | 114.90 - 115.10 | |
| 208 | 7991.45 | 207.95 | 207.90 - 208.10 | |

| Mass | W-50% | W-5% | W-5% (Required) | W-5% (Flag) |
|---|---|---|---|---|
| 9 | 0.64 | 0.785 | | |
| 24 | 0.63 | 0.777 | | |
| 59 | 0.59 | 0.772 | | |
| 115 | 0.54 | 0.689 | | |
| 208 | 0.57 | 0.773 | | |

## Tune Parameters

### Plasma Parameters

| | | | | | |
|---|---|---|---|---|---|
| Plasma Mode | --- | Nebulizer Gas | 0.60 L/min | Dilution Gas | 0.40 L/min |
| RF Power | 1600 W | Option Gas | --- | Auxiliary Gas | 0.90 L/min |
| RF Matching | 1.80 V | Nebulizer Pump | 0.10 rps | Plasma Gas | 15.0 L/min |
| Sample Depth | 8.0 mm | S/C Temp | 2 °C | | |

### Lens Parameters

| | | | | | |
|---|---|---|---|---|---|
| Extract 1 | 0.0 V | Omega Lens | 10.8 V | Deflect | 15.8 V |
| Extract 2 | -200.0 V | Cell Entrance | -30 V | Plate Bias | -50 V |
| Omega Bias | -90 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 | 134 | Axis Gain | 1.0003 | QP Bias | -3.0 V |
| Mass Offset | 125 | Axis Offset | 0.07 | | |

## Hardware Settings

### Torch

| | | | |
|---|---|---|---|
| Torch H | 0.7 mm | Torch V | -0.7 mm |

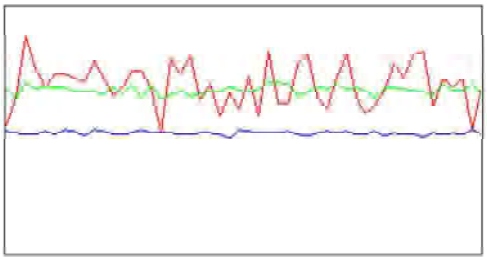
### EM

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 4.7 mV | Analog HV | 3003 V | Pulse HV | 1644 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 | 100 | 69 | 686.62 | | |
| 24 | 2000 | 1326 | 13263.06 | | |
| 59 | 10000 | 4905 | 49047.40 | | |

| Mass | Resp Ratio | Resp Ratio (Required) | Resp Ratio (Flag) |
|---|---|---|---|
| 9 | | - | |
| 24 | | - | |
| 59 | | - | |

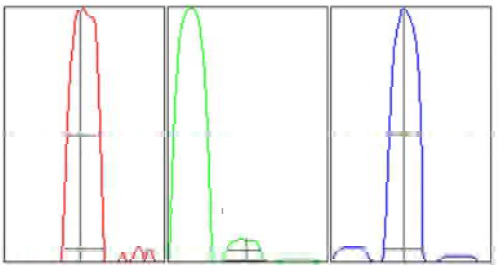
| Mass | RSD% | RSD% (Required) | RSD% (Flag) |
|---|---|---|---|
| 9 | 13.109 | 5.000 | Fail |
| 24 | 2.667 | 5.000 | |
| 59 | 1.513 | 5.000 | |

| Mass | Background | Background (Required) | Background (Flag) |
|---|---|---|---|
| 9 | 0.100 | | |
| 24 | 0.300 | | |
| 59 | 0.100 | | |

## Oxide/Doubly Charged Ratio

| | |
|---|---|
| Oxide | 156 / 140 3.009 % |
| Doubly Charged | 70 / 140 0.828 % |

## Resolution/Axis



| | |
|---|---|
| Integration Time [sec] | 0.1 |
| Acquisition Time [sec] | 22.24 |
| Y Axis | Linear |

| Mass | Peak Height | Axis | Axis (Required) | Axis (Flag) |
|---|---|---|---|---|
| 9 | 67.00 | 8.95 | 8.90 - 9.10 | |
| 24 | 1293.15 | 24.00 | 23.90 - 24.10 | |
| 59 | 4992.28 | 58.90 | 58.90 - 59.10 | |

| Mass | W-50% | W-5% | W-5% (Required) | W-5% (Flag) |
|---|---|---|---|---|
| 9 | 0.64 | 0.783 | | |
| 24 | 0.62 | 0.778 | | |

# Tune Check Report

| Mass | W-50% | W-5% | W-5% (Required) | W-5% (Flag) |
|---|---|---|---|---|
| 59 | 0.59 | 0.731 | | |

## Tune Parameters

### Plasma Parameters

| | | | | | |
|---|---|---|---|---|---|
| Plasma Mode | --- | Nebulizer Gas | 0.60 L/min | Dilution Gas | 0.40 L/min |
| RF Power | 1600 W | Option Gas | --- | Auxiliary Gas | 0.90 L/min |
| RF Matching | 1.80 V | Nebulizer Pump | 0.10 rps | Plasma Gas | 15.0 L/min |
| Sample Depth | 8.0 mm | S/C Temp | 2 °C | | |

### Lens Parameters

| | | | | | |
|---|---|---|---|---|---|
| Extract 1 | 0.0 V | Omega Lens | 10.4 V | Deflect | 0.9 V |
| Extract 2 | -200.0 V | Cell Entrance | -40 V | Plate Bias | -60 V |
| Omega Bias | -90 V | Cell Exit | -60 V | | |

### Cell Parameters

| | | | | | |
|---|---|---|---|---|---|
| Use Gas | Yes | 3rd Gas Flow | --- | Energy Discrimination | 3.0 V |
| He Flow | 3.8 mL/min | OctP Bias | -18.0 V | | |
| H2 Flow | 0.0 mL/min | OctP RF | 200 V | | |

### QP Parameters

| | | | | | |
|---|---|---|---|---|---|
| Mass Gain | 134 | Axis Gain | 1.0003 | QP Bias | -15.0 V |
| Mass Offset | 125 | Axis Offset | 0.07 | | |

## Hardware Settings

### Torch

| | | | |
|---|---|---|---|
| Torch H | 0.7 mm | Torch V | -0.7 mm |

### EM

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 4.7 mV | Analog HV | 3003 V | Pulse HV | 1644 V |

# HS23060999-E2300570 Perchlorate Final Report Level IV

ALS WO# HS23060999

June 27, 2023 Service Request No:E2300570

James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099

**Laboratory Results for: HS23060999**

Dear James,

Enclosed are the results of the sample(s) submitted to our laboratory June 19, 2023
For your reference, these analyses have been assigned our service request number **E2300570.**

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 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

James Guin

# 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

**ALS Environmental**

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request No.:** | E2300570 |
| **Project:** | HS23060999 | **Date Received:** | 06/19/23 |
| **Sample Matrix:** | Ground 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

Seven samples were received for analysis at ALS Environmental in Houston on 06/19/23.

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:**

EQ2300303: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

*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:**E2300570
**Project:** HS23060999

## SAMPLE CROSS-REFERENCE

| SAMPLE # | CLIENT SAMPLE ID | DATE | TIME |
|---|---|---|---|
| E2300570-001 | 102_061323 | 6/13/2023 | 0650 |
| E2300570-002 | 18CPTMW03SW_061323 | 6/13/2023 | 0735 |
| E2300570-003 | 120_061323 | 6/13/2023 | 0930 |
| E2300570-004 | MW14_061323 | 6/13/2023 | 1020 |
| E2300570-005 | 18CPTMW22DW_061323 | 6/13/2023 | 1110 |
| E2300570-006 | 18CPTMW22R_061323 | 6/13/2023 | 1150 |
| E2300570-007 | 18CPTMW22SW_061323 | 6/13/2023 | 1230 |

# Service Request Summary

**Folder #:** **E2300570**
Client Name: ALS Environmental - US
Project Name: HS23060999
Project Number:

**Report To:** James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/19/23
Internal Due Date: 6/28/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23060999
EDD: BASIC_WQC_CASNo_LOD

7 120 mL-Plastic Bottle Natural WM Unpreserved
**Location:** EHRMS-AirArch 1
**Pressure Gas:**

| Lab Samp No. | Client Samp No | Matrix | Collected | Semivoa GCMS<br>ClO4 DOD/6850 |
|---|---|---|---|---|
| E2300570-001 | 102_061323 | Ground Water | 06/13/23 0650 | **IV** |
| E2300570-002 | 18CPTMW03SW_061323 | Ground Water | 06/13/23 0735 | **IV** |
| E2300570-003 | 120_061323 | Ground Water | 06/13/23 0930 | **IV** |
| E2300570-004 | MW14_061323 | Ground Water | 06/13/23 1020 | **IV** |
| E2300570-005 | 18CPTMW22DW_061323 | Ground Water | 06/13/23 1110 | **IV** |
| E2300570-006 | 18CPTMW22R_061323 | Ground Water | 06/13/23 1150 | **IV** |
| E2300570-007 | 18CPTMW22SW_061323 | Ground Water | 06/13/23 1230 | **IV** |

# Service Request Summary

**Folder #:** **E2300570**
Client Name: ALS Environmental - US
Project Name: HS23060999
Project Number:

**Report To:** James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/19/23
Internal Due Date: 6/28/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23060999
EDD: BASIC_WQC_CASNo_LOD

7 120 mL-Plastic Bottle Natural WM Unpreserved
**Location:** EHRMS-AirArch 1
**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 |

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

ALS Environmental

## State Certifications, Accreditations, and Licenses

| Agency | Number | Expire Date |
|---|---|---|
| Arizona Department of Health Services | AZ0793_2024 | 5/27/2024 |
| Arkansas Department of Environmental Quality | 88-00356 | 3/27/2024 |
| Department of Defense | L22-90 | 3/31/2024 |
| Department of Defense | L23-358 | 5/31/2025 |
| Florida Department of Health | E87611-36 | 6/30/2023 |
| Florida Department of Health | E87611-36 | 6/30/2023 |
| Florida Department of Health | E87611-36 | 6/30/2023 |
| Florida Department of Health | E87611-36 | 6/30/2023 |
| Illinois Environmental Protection Agency | 2000322023-11 | 6/30/2024 |
| Kansas Department of Health and Environment | E-10352 2022-2023 | 7/31/2023 |
| Louisiana Department of Environmental Quality | 03087-2022 | 6/30/2023 |
| Louisiana Department of Health and Hospitals | LA028-2023 | 12/31/2023 |
| Maine Department of Health and Human Services | 2022017 | 6/5/2024 |
| Maryland Department of the Environment | 343 | 6/30/2023 |
| Minnesota Department of Health | 2368363 | 12/31/2023 |
| Nebraska Department of Health and Human Services | NE-OS-25-13 | 4/30/2024 |
| Nevada Department of Conservation and Natural Resources | TX026932023-1 | 7/31/2023 |
| New Hampshire Environmental Laboratory Accreditation Program | 209423 | 4/24/2024 |
| New Jersey Department of Environmental Protection | TX008-2023 | 6/30/2023 |
| New York Department of Health | 11707 | 3/31/2024 |
| Oklahoma Department of Environmental Quality | 2022-141 | 8/31/2023 |
| Pennsylvania Department of Environmental Protection | 68-03441-016 | 6/30/2023 |
| Perry Johnson Laboratory Accreditation | L22-91 | 3/31/2024 |
| Tennessee Department of Environment and Concervation | TN04016-2023 | 4/30/2024 |
| Texas Commision on Environmental Quality | T104704231-23-30 | 4/30/2024 |
| Utah Department of Health Environmental Laboratory Certification | TX026932022-13 | 7/31/2023 |
| Washington Department of Ecology | C819-22 | 11/14/2023 |



ALS

# 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

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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:** 22055

**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:** 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:** HS23060999
**TSR:** Holly Tignac

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|---|---|---|---|---|
| | ANALYSIS REQUESTED | | | DUE DATE |
| 1. | **HS23060999-01** | **102_061323** | **Groundwater** | **13 Jun 2023 06:50** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 28 Jun 2023 |
| 2. | **HS23060999-02** | **18CPTMW03SW_061323** | **Groundwater** | **13 Jun 2023 07:35** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 28 Jun 2023 |
| 3. | **HS23060999-03** | **120_061323** | **Groundwater** | **13 Jun 2023 09:30** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 28 Jun 2023 |
| 4. | **HS23060999-04** | **MW14_061323** | **Groundwater** | **13 Jun 2023 10:20** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 28 Jun 2023 |
| 5. | **HS23060999-05** | **18CPTMW22DW_061323** | **Groundwater** | **13 Jun 2023 11:10** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 28 Jun 2023 |
| 6. | **HS23060999-06** | **18CPTMW22R_061323** | **Groundwater** | **13 Jun 2023 11:50** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 28 Jun 2023 |
| 7. | **HS23060999-07** | **18CPTMW22SW_061323** | **Groundwater** | **13 Jun 2023 12:30** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 28 Jun 2023 |

# Subcontract Chain of Custody

**SAMPLING STATE:** **Texas** **COC ID:** **22055**

**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: | |
| Received By: | | Date/Time: | 6-14-23 0802 |
| Cooler ID(s): | | Temperature(s): | |

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Client: ALS Inv Date: 6/19/23 WO#:

Time Received: 0900 Received by: CS BO#: NA

Matrices: Solid/Sludge (Water) Oil Wipes Hydrocarbon Liquid Other

| Kit ID/Cooler ID | Trip Blank ID | Cooler Temp (C) Observed/Corrected | IR # | Temp BLK Present? |
|---|---|---|---|---|
| Blue | - | 3.1 / 3.0 | 31 | (Y) N |
| | | / | | Y N |
| | | / | | Y N |
| | | / | | Y N |
| | | / | | Y N |

Delivery Method: FedEx UPS Greyhound (ALS) Client Other

Date/Time of Unpacking: 6/19/23 Unpacked by:

| | | | |
|---|---|---|---|
| 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) |
| Chain of Custody present? | (Yes) | No | |
| Chain of Custody signed when relinquished and received? | (Yes) | No | |
| Chain of Custody - Sampler's name present? | (Yes) | No | |
| Chain of Custody agrees with sample labels? | (Yes) | No | |
| Samples in proper container/bottle? | (Yes) | No | |
| VOA/TX1005/1006 Solids in hermetically Sealed Vials: | Yes | No | (No VOA/TX1005/1006 Solid) |
| 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 | |
| Water - VOA vials have zero headspace? | Yes | No | (N/A) No VOA submitted |
| Non-VOA waters preserved with HCl, H2SO4, HNO3 are pH <2? | | | Yes No (N/A) |
| Waters preserved with NaOH/Ascorbic acid are pH>12? | Yes | No | (N/A) |
| pH adjusted? | Yes* | No | (N/A) *See Preservation Logbook |

pH adjusted by: _____ pH Paper Lot: _____

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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**
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

# *Preparation Information Benchsheet*

**Prep Run#:** 421764 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
**Team:** Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 6/21/23 08:37

| # | Lab Code | Client ID | B# | Method /Test | pH | Cl | Matrix | Amt. Ext. | Sample Description |
|---|---|---|---|---|---|---|---|---|---|
| 1 | E2300570-001 | 102_061323 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 2 | E2300570-002 | 18CPTMW03SW_061323 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 3 | E2300570-003 | 120_061323 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 4 | E2300570-004 | MW14_061323 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 5 | E2300570-005 | 18CPTMW22DW_061323 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 6 | E2300570-006 | 18CPTMW22R_061323 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 7 | E2300570-007 | 18CPTMW22SW_061323 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 8 | E2300571-001 | AWD3_061423 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 9 | E2300571-002 | 18CPTMW12SW_061423 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 10 | E2300571-003 | 18CPTMW12DW_061423 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 11 | E2300571-004 | MW7_061423 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 12 | E2300571-005 | 130_061423 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 13 | E2300571-006 | 130_061423_a | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 14 | E2300571-007 | MW8_061423 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 15 | E2300571-008 | 18WW06_061423 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 16 | E2300571-009 | 18WW02_061423 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 17 | E2300589-001 | LM-23-06-DTW-02(I) | .01 | 6850/ClO4 | | | Water | 10mL | |
| 18 | EQ2300303-01 | MB | | 6850/ClO4 DOD | | | Liquid | 10mL | |
| 19 | EQ2300303-02 | LCS | | 6850/ClO4 DOD | | | Liquid | 10mL | |
| 20 | EQ2300303-03 | DLCS | | 6850/ClO4 DOD | | | Liquid | 10mL | |
| 21 | R2305214-008 | 2306091036C ST-3-486 | .01 | 6850/ClO4 | | | Water | 10mL | |
| 22 | R2305402-005 | 2306121431C ST-3-666 | .01 | 6850/ClO4 | | | Water | 10mL | |
| 23 | R2305457-006 | 2306141413C BW-7-211 | .01 | 6850/ClO4 | | | Water | 10mL | |

## Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300303-02 1.00µL EQ2300303-03 1.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 227244 Logbook Ref: Perchlorate Internal Standard Expires On: 07/31/2023

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| E2300570-001 | 100.00µL | E2300570-002 | 100.00µL | E2300570-003 | 100.00µL | E2300570-004 | 100.00µL | E2300570-005 | 100.00µL | E2300570-006 | 100.00µL |
| E2300570-007 | 100.00µL | E2300571-001 | 100.00µL | E2300571-002 | 100.00µL | E2300571-003 | 100.00µL | E2300571-004 | 100.00µL | E2300571-005 | 100.00µL |
| E2300571-006 | 100.00µL | E2300571-007 | 100.00µL | E2300571-008 | 100.00µL | E2300571-009 | 100.00µL | E2300589-001 | 100.00µL | EQ2300303-01 | 100.00µL |
| EQ2300303-02 | 100.00µL | EQ2300303-03 | 100.00µL | R2305214-008 | 100.00µL | R2305402-005 | 100.00µL | R2305457-006 | 100.00µL | | |

# *Preparation Information Benchsheet*

**Prep Run#:** 421764 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
**Team:** Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 6/21/23 08:37

## Preparation Materials

| | | | | | |
|---|---|---|---|---|---|
| Water HPLC Grade | HPLC water 5/18/23CG (229314) | 6850 Amber Glass screw vial | 2mL Screw Top Vial (221894) | 6850 0.45um syringe filters | 6850 0.45um syringe (229005) |
| 6850 Luer-Lok Syringes | luer-lock syringes (228116) | | | | |

## Preparation Steps

Step: Preparation
Started: 6/21/23 08:37
Finished: 6/23/23 13:26
By: XMI
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**
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
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**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300570 |
| **Project:** | HS23060999 | **Date Collected:** | 6/13/23 0650 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 6/19/23 |
| **Sample Name:** | 102_061323 | **Units:** | µg/L |
| **Lab Code:** | E2300570-001 | **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 | **57.3** | | 0.500 | 0.250 | 0.125 | 5 | 6/21/23 | 6/26/23 10:45 | 421764 | 808705 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300570 |
| **Project:** | HS23060999 | **Date Collected:** | 6/13/23 0735 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 6/19/23 |
| **Sample Name:** | 18CPTMW03SW_061323 | **Units:** | µg/L |
| **Lab Code:** | E2300570-002 | **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 | **0.688** | | 0.100 | 0.0500 | 0.0250 | 1 | 6/21/23 | 6/26/23 10:50 | 421764 | 808705 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300570 |
| **Project:** | HS23060999 | **Date Collected:** | 6/13/23 0930 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 6/19/23 |
| **Sample Name:** | 120_061323 | **Units:** | µg/L |
| **Lab Code:** | E2300570-003 | **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 | **11900** | | 500 | 250 | 125 | 5000 | 6/21/23 | 6/26/23 11:01 | 421764 | 808705 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300570 |
| **Project:** | HS23060999 | **Date Collected:** | 6/13/23 1020 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 6/19/23 |
| **Sample Name:** | MW14_061323 | **Units:** | µg/L |
| **Lab Code:** | E2300570-004 | **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 | **241000** | | 500 | 250 | 125 | 5000 | 6/21/23 | 6/26/23 11:07 | 421764 | 808705 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300570 |
| **Project:** | HS23060999 | **Date Collected:** | 6/13/23 1110 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 6/19/23 |
| **Sample Name:** | 18CPTMW22DW_061323 | **Units:** | µg/L |
| **Lab Code:** | E2300570-005 | **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 | **0.568** | | 0.100 | 0.0500 | 0.0250 | 1 | 6/21/23 | 6/26/23 11:12 | 421764 | 808705 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300570 |
| **Project:** | HS23060999 | **Date Collected:** | 6/13/23 1150 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 6/19/23 |
| **Sample Name:** | 18CPTMW22R_061323 | **Units:** | µg/L |
| **Lab Code:** | E2300570-006 | **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 | **0.147** | | 0.100 | 0.0500 | 0.0250 | 1 | 6/21/23 | 6/26/23 11:18 | 421764 | 808705 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300570 |
| **Project:** | HS23060999 | **Date Collected:** | 6/13/23 1230 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 6/19/23 |
| **Sample Name:** | 18CPTMW22SW_061323 | **Units:** | µg/L |
| **Lab Code:** | E2300570-007 | **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 | **12200** | | 100 | 50.0 | 25.0 | 1000 | 6/21/23 | 6/26/23 11:23 | 421764 | 808705 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300570 |
| **Project:** | HS23060999 | **Date Collected:** | NA |
| **Sample Matrix:** | Ground Water | **Date Received:** | NA |
| **Sample Name:** | Method Blank | **Units:** | µg/L |
| **Lab Code:** | EQ2300303-01 | **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 | 6/21/23 | 6/26/23 09:50 | 421764 | 808705 | |

# 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
**Project:** HS23060999
**Sample Matrix:** Ground Water

**Service Request:** E2300570
**Date Analyzed:** 6/26/23

## Lab Control Sample Summary
## Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

**Analytical Method:** 6850
**Prep Method:** Method

**Units:** µg/L
**Basis:** NA

**Extraction Lot:** 421764

| | Lab Control Sample EQ2300303-02 | | | Duplicate Lab Control Sample EQ2300303-03 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Analyte Name** | **Result** | **Spike Amount** | **% Rec** | **Result** | **Spike Amount** | **% Rec** | **% Rec Limits** | **RPD** | **RPD Limit** |
| Perchlorate | 0.0934 | 0.100 | 93 | 0.0922 | 0.100 | 92 | 84 - 119 | 1 | 15 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300570 |
| **Project:** | HS23060999 | **Date Collected:** | NA |
| **Sample Matrix:** | Ground Water | **Date Received:** | NA |
| **Sample Name:** | Lab Control Sample | **Units:** | µg/L |
| **Lab Code:** | EQ2300303-02 | **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 | **0.0934** | J | 0.100 | 0.0500 | 0.0250 | 1 | 6/21/23 | 6/26/23 15:09 | 421764 | 808705 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300570 |
| **Project:** | HS23060999 | **Date Collected:** | NA |
| **Sample Matrix:** | Ground Water | **Date Received:** | NA |
| **Sample Name:** | Duplicate Lab Control Sample | **Units:** | µg/L |
| **Lab Code:** | EQ2300303-03 | **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 | **0.0922** | J | 0.100 | 0.0500 | 0.0250 | 1 | 6/21/23 | 6/26/23 10:01 | 421764 | 808705 | |

# Initial Calibration

**ALS Environmental - Houston HRMS**
10450 Stancliff Rd., Suite 210, Houston, TX 77099
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www.alsglobal.com

**20230623-808638**

# Injection Log

LCMS01 -Shimadzu 8050

**1st Review: XM**
**2nd Review: GC**

**ICAL Date:** 6/23/2023
**Cal. Std. xp:** 07/31/2023
**ICAL ID:** EC2300010

**Mobile Phases : A:**20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

| | Sample Name | | File Name | Acquisition Method | Dilution | Comments | Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | PERCHLORATE1 | | 20230623-002 | Perchlorate6850c.lcm | 1x | 227245 | 6/23/2023 14:23 |
| 2 | PERCHLORATE2 | | 20230623-003 | Perchlorate6850c.lcm | 1x | 227246 | 6/23/2023 14:28 |
| 3 | PERCHLORATE3 | | 20230623-004 | Perchlorate6850c.lcm | 1x | 227247 | 6/23/2023 14:34 |
| 4 | PERCHLORATE4 | | 20230623-005 | Perchlorate6850c.lcm | 1x | 227248 | 6/23/2023 14:39 |
| 5 | PERCHLORATE5 | | 20230623-006 | Perchlorate6850c.lcm | 1x | 227249 | 6/23/2023 14:45 |
| 6 | PERCHLORATE6 | | 20230623-007 | Perchlorate6850c.lcm | 1x | 227250 | 6/23/2023 14:50 |
| 7 | PERCHLORATE7 | | 20230623-008 | Perchlorate6850c.lcm | 1x | 227251 | 6/23/2023 14:56 |
| 8 | PERCHLORATE8 | | 20230623-009 | Perchlorate6850c.lcm | 1x | 227252 | 6/23/2023 15:01 |
| 9 | PERCHLORATE9 | | 20230623-010 | Perchlorate6850c.lcm | 1x | 227253 | 6/23/2023 15:07 |
| 10 | PERCHLORATE10 | | 20230623-011 | Perchlorate6850c.lcm | 1x | 227254 | 6/23/2023 15:13 |
| 11 | PERCHLORATEICV | | 20230623-012 | Perchlorate6850c.lcm | 1x | 227256 | 6/23/2023 15:18 |
| 12 | LODV | | 20230623-013 | Perchlorate6850c.lcm | 1x | 227501 | 6/23/2023 15:24 |
| 13 | IB | | 20230623-014 | Perchlorate6850c.lcm | 1x | | 6/23/2023 15:29 |
| 14 | ICS | | 20230623-015 | Perchlorate6850c.lcm | 1x | 32103024 | 6/23/2023 15:35 |
| 15 | CCV | | 20230623-016 | Perchlorate6850c.lcm | 1x | 227251 | 6/23/2023 15:41 |
| 16 | EQ2300301-01 | | 20230623-017 | Perchlorate6850c.lcm | 1x | | 6/23/2023 15:46 |
| 17 | EQ2300301-02 | | 20230623-018 | Perchlorate6850c.lcm | 1x | DNU-RR | 6/23/2023 15:52 |
| 18 | EQ2300301-03 | | 20230623-019 | Perchlorate6850c.lcm | 1x | | 6/23/2023 16:09 |
| 19 | E2300548-001 | | 20230623-020 | Perchlorate6850c.lcm | 1x | | 6/23/2023 16:03 |
| 20 | E2300548-002 | | 20230623-021 | Perchlorate6850c.lcm | 1x | | 6/23/2023 16:14 |
| 21 | E2300548-003 | | 20230623-022 | Perchlorate6850c.lcm | 1x | DNU-IS | 6/23/2023 16:20 |
| 22 | EQ2300301-04 | | 20230623-023 | Perchlorate6850c.lcm | 1x | DNU-RR | 6/23/2023 16:25 |
| 23 | EQ2300301-05 | | 20230623-024 | Perchlorate6850c.lcm | 1x | DNU-RR | 6/23/2023 16:31 |
| 24 | E2300549-001 | | 20230623-025 | Perchlorate6850c.lcm | 1x | 227251 | 6/23/2023 16:36 |
| 25 | E2300549-002 | | 20230623-026 | Perchlorate6850c.lcm | 1x | DNU-RR | 6/23/2023 16:42 |
| 26 | CCV | | 20230623-027 | Perchlorate6850c.lcm | 1x | 227251 | 6/23/2023 16:47 |
| 27 | E2300549-003 | | 20230623-028 | Perchlorate6850c.lcm | 1x | | 6/23/2023 16:53 |
| 28 | E2300549-004 | | 20230623-029 | Perchlorate6850c.lcm | 1x | | 6/23/2023 16:58 |
| 29 | E2300557-001 | | 20230623-030 | Perchlorate6850c.lcm | 1x | | 6/23/2023 17:04 |
| 30 | E2300559-001 | | 20230623-031 | Perchlorate6850c.lcm | 1000x | | 6/23/2023 17:10 |
| 31 | E2300559-002 | | 20230623-032 | Perchlorate6850c.lcm | 500x | | 6/23/2023 17:15 |
| 32 | E2300559-003 | | 20230623-033 | Perchlorate6850c.lcm | 1000x | | 6/23/2023 17:21 |
| 33 | E2300559-004 | | 20230623-034 | Perchlorate6850c.lcm | 1x | | 6/23/2023 17:26 |
| 34 | E2300559-005 | | 20230623-035 | Perchlorate6850c.lcm | 10x | | 6/23/2023 17:32 |
| 35 | E2300559-006 | | 20230623-036 | Perchlorate6850c.lcm | 10x | | 6/23/2023 17:37 |
| 36 | K2306641-001 | | 20230623-037 | Perchlorate6850c.lcm | 1x | | 6/23/2023 17:43 |
| 37 | CCV | | 20230623-038 | Perchlorate6850c.lcm | 1x | 227251 | 6/23/2023 17:48 |

**20230623-808638**

# Injection Log

LCMS01 -Shimadzu 8050

**1st Review: XM**
**2nd Review: GC**

**ICAL Date:** 6/23/2023
**Cal. Std. xp:** 07/31/2023
**ICAL ID:** EC2300010

**Mobile Phases :** **A:**20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

| | Sample Name | | File Name | Acquisition Method | Dilution | Comments | Date/Time |
|---|---|---|---|---|---|---|---|
| 38 | K2306641-002 | | 20230623-039 | Perchlorate6850c.lcm | 1x | | 6/23/2023 17:54 |
| 39 | K2306641-003 | | 20230623-040 | Perchlorate6850c.lcm | 1x | | 6/23/2023 17:59 |
| 40 | K2306921-001 | | 20230623-041 | Perchlorate6850c.lcm | 1x | DNU-IS | 6/23/2023 18:05 |
| 41 | K2306921-002 | | 20230623-042 | Perchlorate6850c.lcm | 1x | | 6/23/2023 18:11 |
| 42 | K2306921-003 | | 20230623-043 | Perchlorate6850c.lcm | 1x | DNU-IS | 6/23/2023 18:16 |
| 43 | E2300548-003 | | 20230623-044 | Perchlorate6850c.lcm | 1x | | 6/23/2023 18:22 |
| 44 | EQ2300301-02 | | 20230623-045 | Perchlorate6850c.lcm | 1x | | 6/23/2023 18:27 |
| 45 | CCV | | 20230623-049 | Perchlorate6850c.lcm | 1x | 227251 | 6/23/2023 18:49 |

# *Initial Calibration - Detailed Report*

**Calibration ID:** EC2300010 **Instrument ID:** E-LCMS-01
**Column Name:** 1

| # | Lab Code | Sample Name | File Location | Aquisition Date |
|---|---|---|---|---|
| 01 | EC2300010-01 | PERCHLORATE1 | 20230623-002 | 06/23/2023 14:23 |
| 02 | EC2300010-02 | PERCHLORATE2 | 20230623-003 | 06/23/2023 14:28 |
| 03 | EC2300010-03 | PERCHLORATE3 | 20230623-004 | 06/23/2023 14:34 |
| 04 | EC2300010-04 | PERCHLORATE4 | 20230623-005 | 06/23/2023 14:39 |
| 05 | EC2300010-05 | PERCHLORATE5 | 20230623-006 | 06/23/2023 14:45 |
| 06 | EC2300010-06 | PERCHLORATE6 | 20230623-007 | 06/23/2023 14:50 |
| 07 | EC2300010-07 | PERCHLORATE7 | 20230623-008 | 06/23/2023 14:56 |
| 08 | EC2300010-08 | PERCHLORATE8 | 20230623-009 | 06/23/2023 15:01 |
| 09 | EC2300010-09 | PERCHLORATE9 | 20230623-010 | 06/23/2023 15:07 |
| 10 | EC2300010-10 | PERCHLORATE10 | 20230623-011 | 06/23/2023 15:13 |

**Analyte** **Curve Fit** **Weighting**

**Perchlorate** **Average RF** **RSD = 8.061** **Average RF = 0.1579**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.1000 | 0.1838 | 02 | 0.5000 | 0.1777 | 03 | 0.7000 | 0.1443 | 04 | 1.0000 | 0.1544 |
| 05 | 2.0000 | 0.1586 | 06 | 5.0000 | 0.1522 | 07 | 10.0000 | 0.1523 | 08 | 20.0000 | 0.154 |
| 09 | 30.0000 | 0.1479 | 10 | 50.0000 | 0.1539 | | | | | | |

**Analyte**

**Perchlorate** RSE = 8.06

| # | Amount | Calculated Conc | %D | # | Amount | Calculated Conc | %D | # | Amount | Calculated Conc | %D |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.1000 | 0.116 | 16.4 | 02 | 0.5000 | 0.563 | 12.6 | 03 | 0.7000 | 0.640 | -8.6 |
| 04 | 1.0000 | 0.978 | -2.2 | 05 | 2.0000 | 2.01 | 0.4 | 06 | 5.0000 | 4.82 | -3.6 |
| 07 | 10.0000 | 9.64 | -3.6 | 08 | 20.0000 | 19.5 | -2.5 | 09 | 30.0000 | 28.1 | -6.3 |
| 10 | 50.0000 | 48.7 | -2.6 | | | | | | | | |

# *Initial Calibration Verification Summary Report*

| | | | |
|---|---|---|---|
| **Calibration ID:** | EC2300010 | **Instrument ID:** | E-LCMS-01 |
| **Datafile ID:** | 20230623-012 | **Column Name:** | 1 |

| Analyte | Lab Code | Type | Curve Fit | True Value | Calc Conc | Units | Result | Criteria |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | EC2300010-11 | T | Average RF | 10 | 9.670 | ng/mL | -3.3 | <= 15 |

# Insight Report

Printed at 6/26/2023 9:45:37 AM

Method File: I:\LCMS01\DATA\20230623\20230623.lcm
Project File: I:\LCMS01\DATA\20230623\20230623.damlp

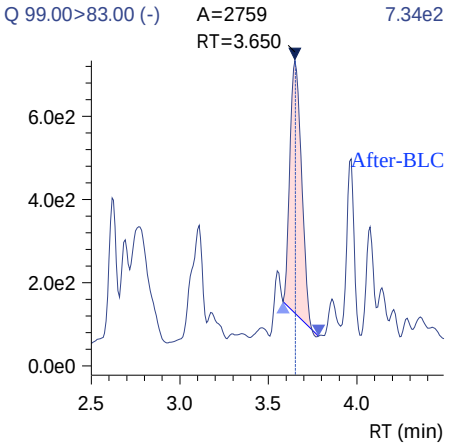
## PERCHLORATE1

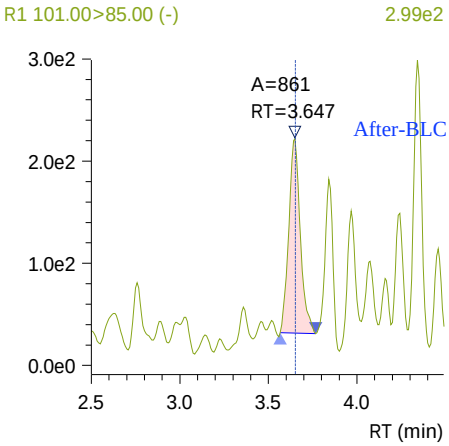
Sample ID: PERCHLORATE1
Date Acquired: 6/23/2023 2:23:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 2

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | M | 3.650 | 2759 | 150098 | 0.1164 | ng/mL | 101.00 >85.00 | 31.22 | 25.05-46.52 |
| Sodium Perchlorate-18O4 _IS | Auto | 3.649 | 1500 98 | 150098 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

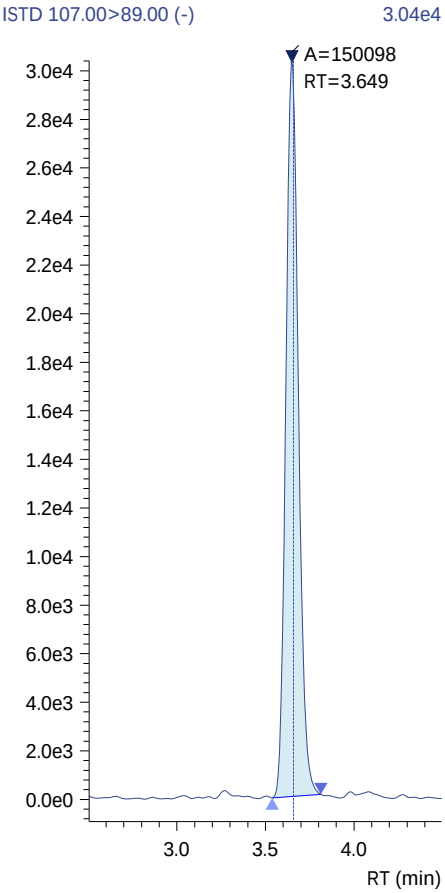
Conc 0.1164
R#1 31.22 (35.79)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report



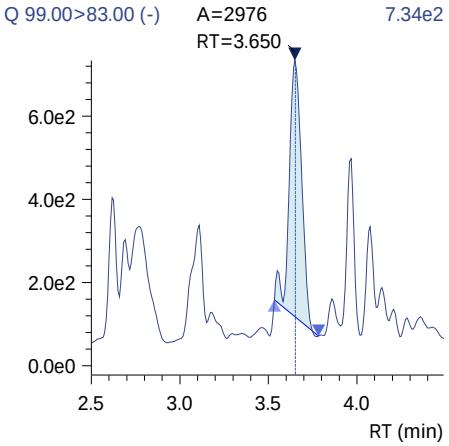
Method File: I:\LCMS01\DATA\20230623\20230623.lcm
Project File: I:\LCMS01\DATA\20230623\20230623.damlp

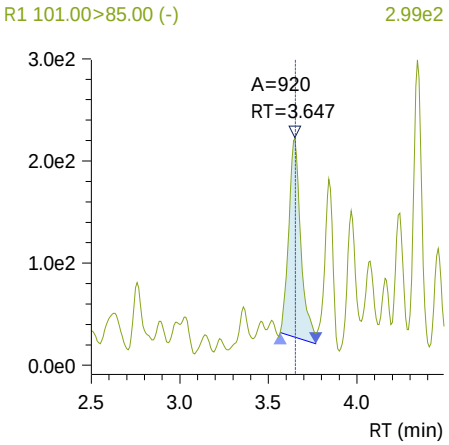
## PERCHLORATE1

Sample ID: PERCHLORATE1
Date Acquired: 6/23/2023 2:23:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 2

### Perchlorate

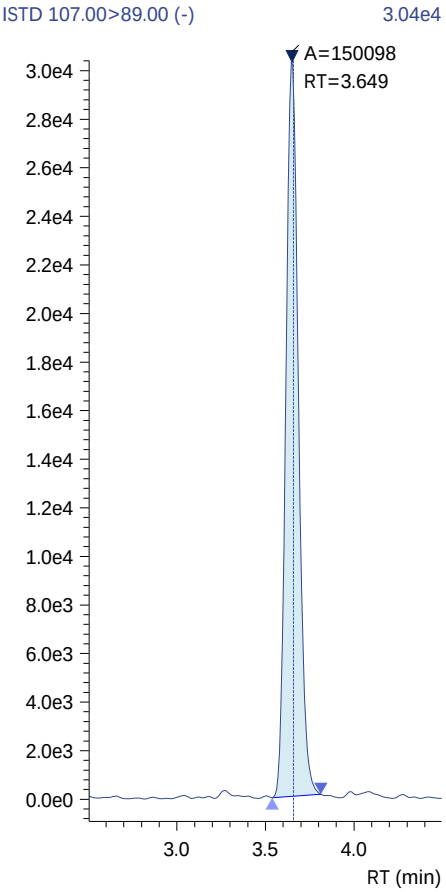
Conc 0.1244
R#1 30.91 (35.79)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 9:45:37 AM

## PERCHLORATE2

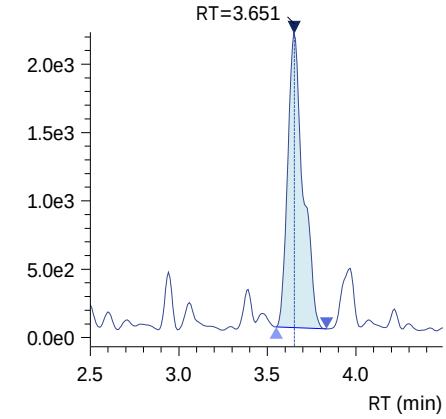
Sample ID: PERCHLORATE2
Date Acquired: 6/23/2023 2:28:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 2

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.651 | 12988 | 146157 | 0.5627 | ng/mL | 101.00 >85.00 | 36.23 | 25.05-46.52 |
| Sodium Perchlorate-18O4 _IS | Auto | 3.648 | 1461 57 | 146157 | 1.0000 | ng/mL | ---- | ---- | |

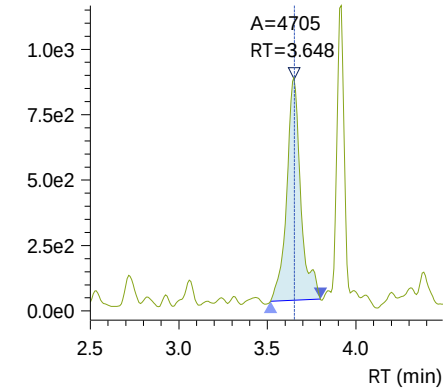
### Perchlorate

Conc 0.5627
R#1 36.23 (35.79)

Q 99.00>83.00 (-) A=12988 2.23e3



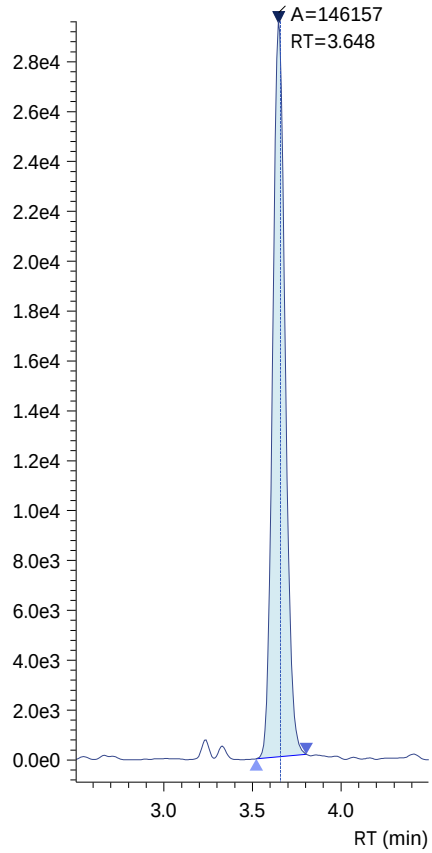

R1 101.00>85.00 (-) 1.17e3




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.96e4



# Insight Report

Printed at 6/26/2023 9:45:37 AM

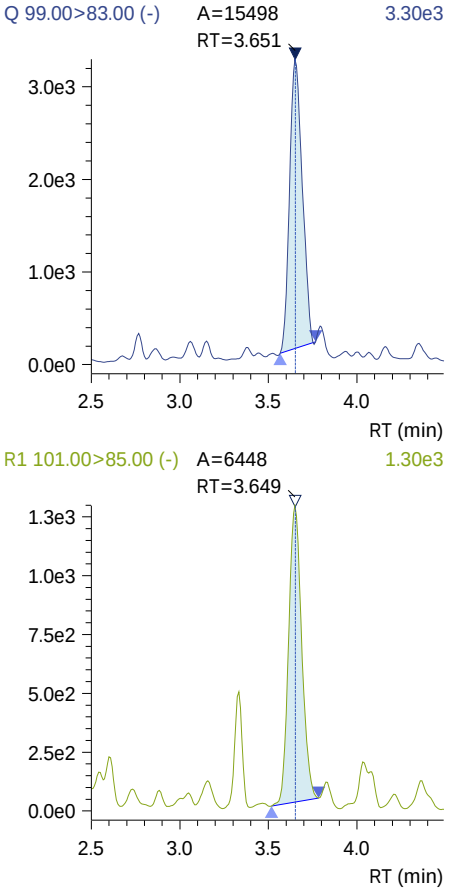
## PERCHLORATE3

Sample ID: PERCHLORATE3
Date Acquired: 6/23/2023 2:34:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 2

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.651 | 15498 | 153437 | 0.6397 | ng/mL | 101.00 >85.00 | 41.61 | 25.05-46.52 |
| Sodium Perchlorate-18O4 _IS | Auto | 3.648 | 1534 37 | 153437 | 1.0000 | ng/mL | ---- | ---- | |

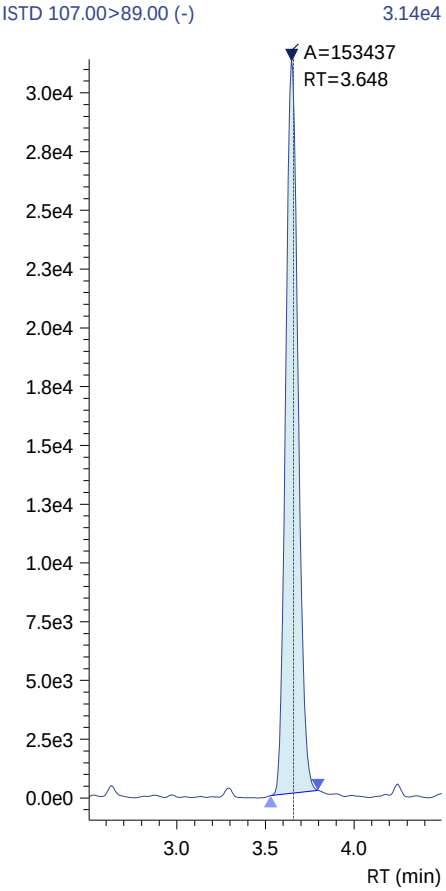
### Perchlorate

Conc 0.6397
R#1 41.61 (35.79)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 9:45:37 AM

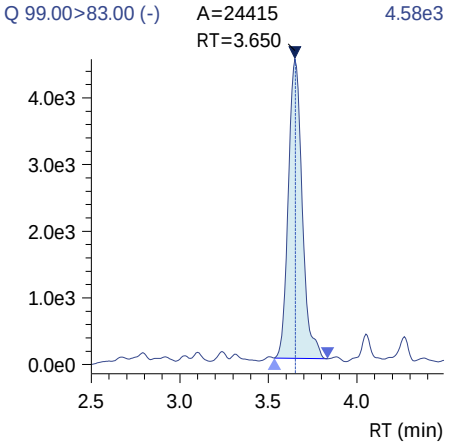
## PERCHLORATE4

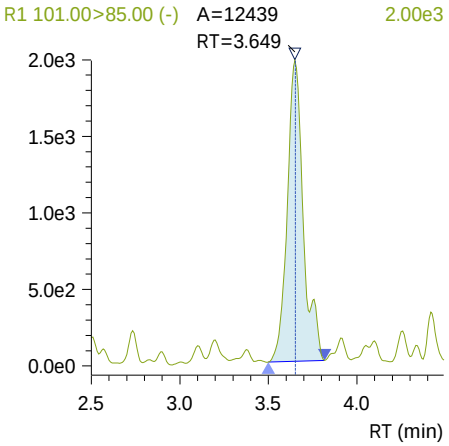
Sample ID: PERCHLORATE4
Date Acquired: 6/23/2023 2:39:41 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 2

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.650 | 24415 | 158135 | 0.9778 | ng/mL | 101.00 >85.00 | 50.95 | 25.05-46.52 |
| Sodium Perchlorate-18O4 _IS | Auto | 3.647 | 158135 | 158135 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

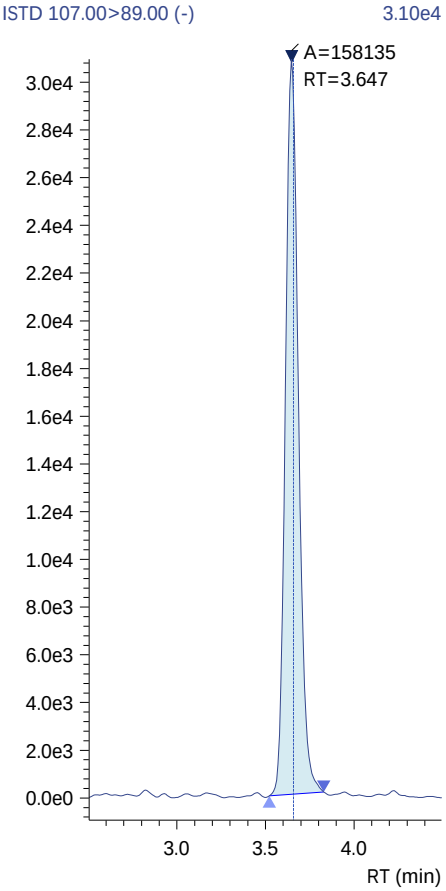
Conc 0.9778
R#1 50.95 (35.79)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 9:45:37 AM

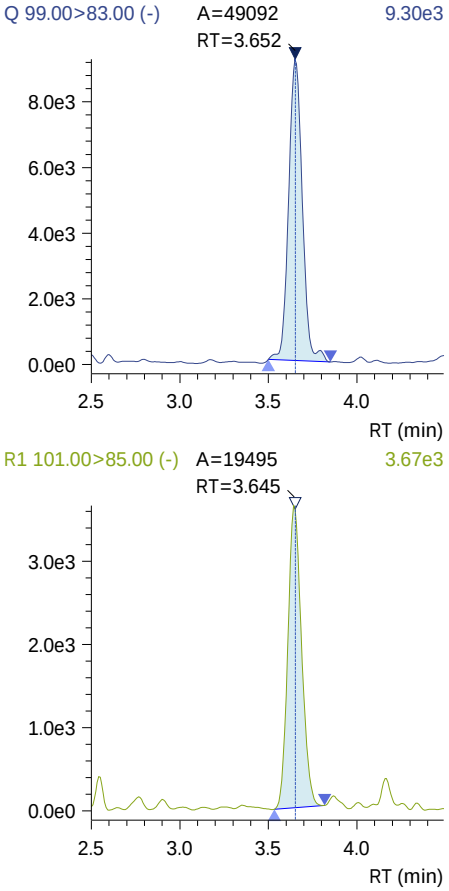
## PERCHLORATE5

Sample ID: PERCHLORATE5
Date Acquired: 6/23/2023 2:45:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 2

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.652 | 49092 | 154771 | 2.0088 | ng/mL | 101.00 >85.00 | 39.71 | 25.05-46.52 |
| Sodium Perchlorate-18O4 _IS | Auto | 3.647 | 1547 71 | 154771 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

Conc 2.0088
R#1 39.71 (35.79)

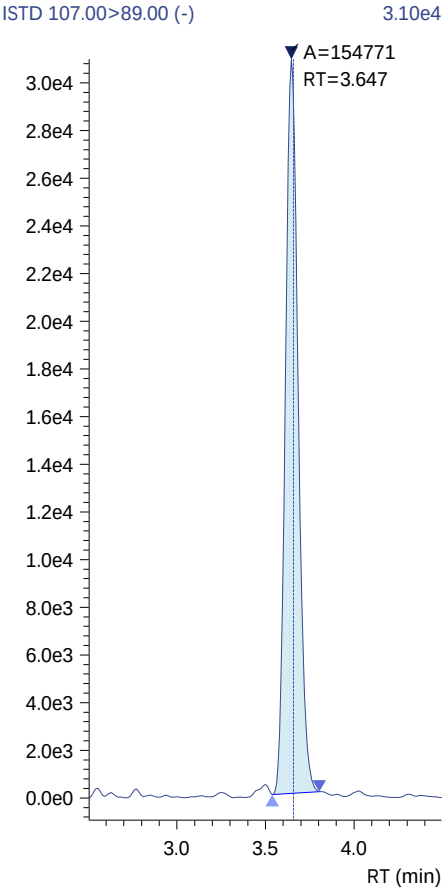






### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 9:45:37 AM

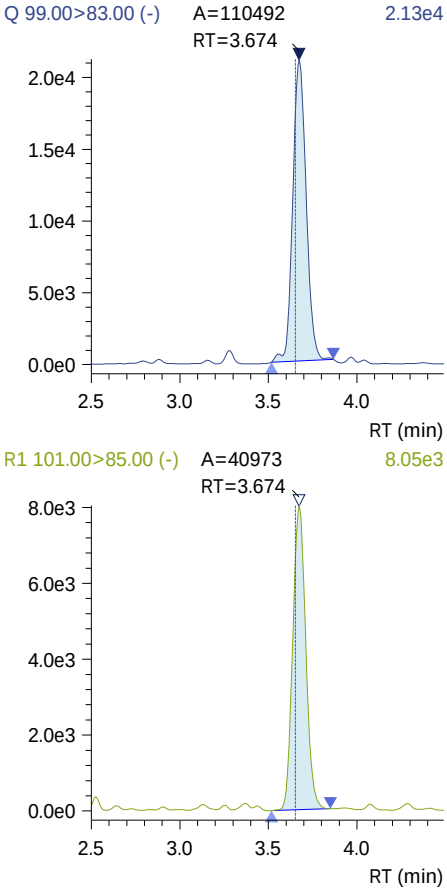
## PERCHLORATE6

Sample ID: PERCHLORATE6
Date Acquired: 6/23/2023 2:50:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 2

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.674 | 110492 | 145205 | 4.8190 | ng/mL | 101.00 >85.00 | 37.08 | 25.05-46.52 |
| Sodium Perchlorate-18O4_IS | Auto | 3.670 | 145205 | 145205 | 1.0000 | ng/mL | ---- | ---- | |

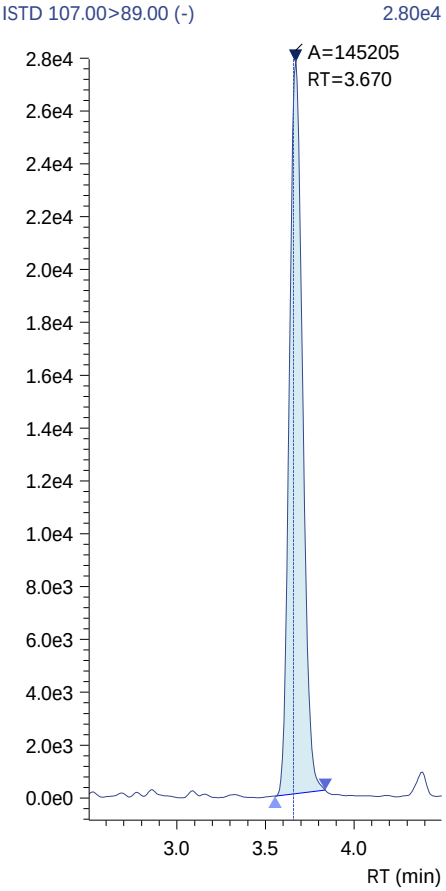
### Perchlorate

Conc 4.8190
R#1 37.08 (35.79)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 9:45:37 AM

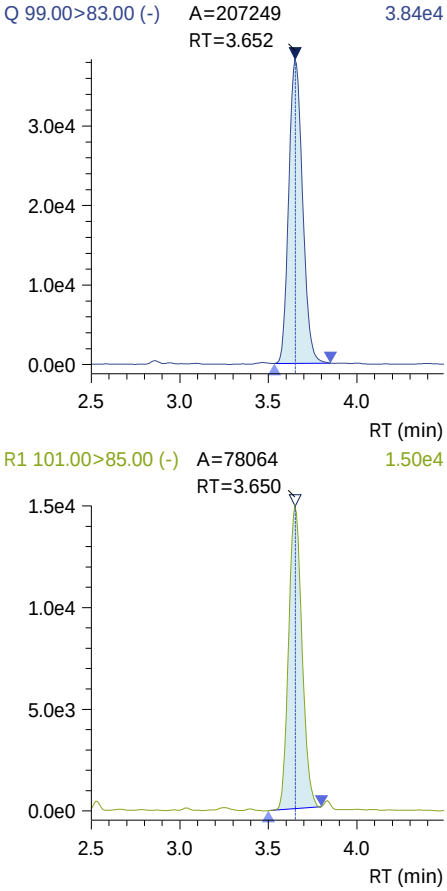
## PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 6/23/2023 2:56:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 2

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.652 | 207249 | 136114 | 9.6427 | ng/mL | 101.00 >85.00 | 37.67 | 25.05-46.52 |
| Sodium Perchlorate-18O4_IS | Auto | 3.648 | 136114 | 136114 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

Conc 9.6427
R#1 37.67 (35.79)

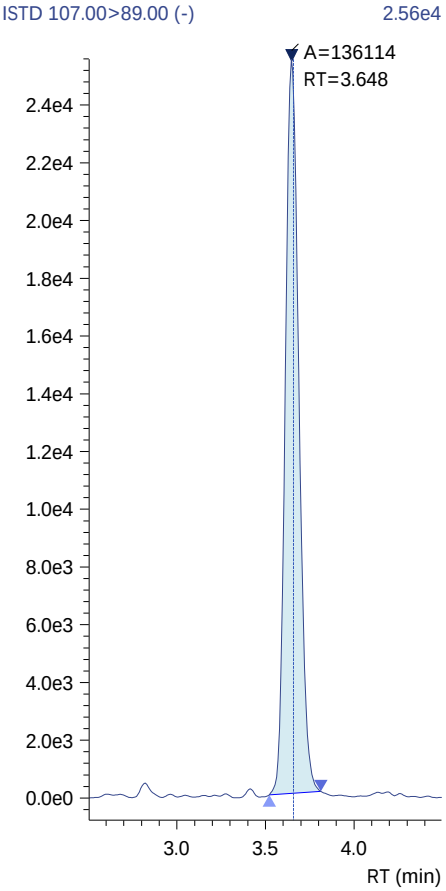






### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 9:45:37 AM

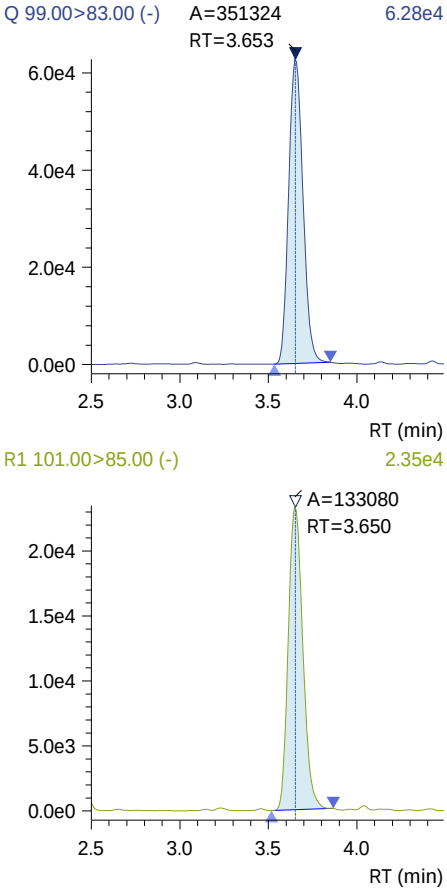
## PERCHLORATE8

Sample ID: PERCHLORATE8
Date Acquired: 6/23/2023 3:01:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 2

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.653 | 3513<br>24 | 114068 | 19.50<br>54 | ng/mL | 101.00<br>>85.00 | 37.88 | 25.05-46.52 |
| Sodium Perchlorate-18O4 _IS | Auto | 3.647 | 1140<br>68 | 114068 | 1.0000 | ng/mL | ---- | ---- | |

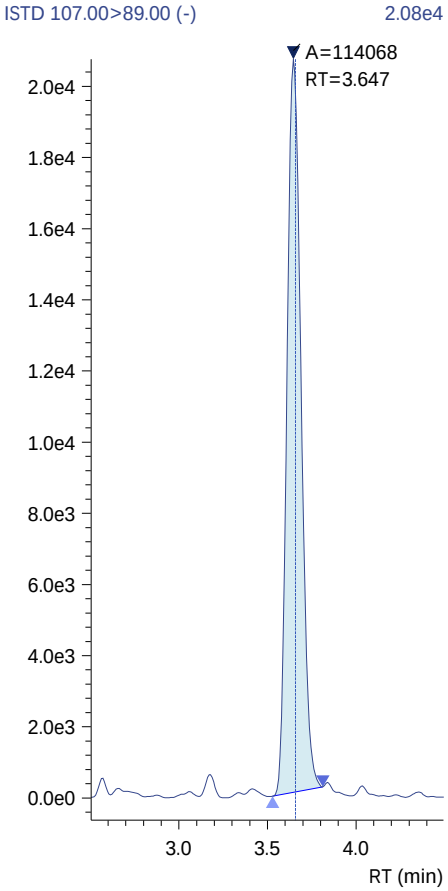
### Perchlorate

Conc 19.5054
R#1 37.88 (35.79)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 9:45:37 AM

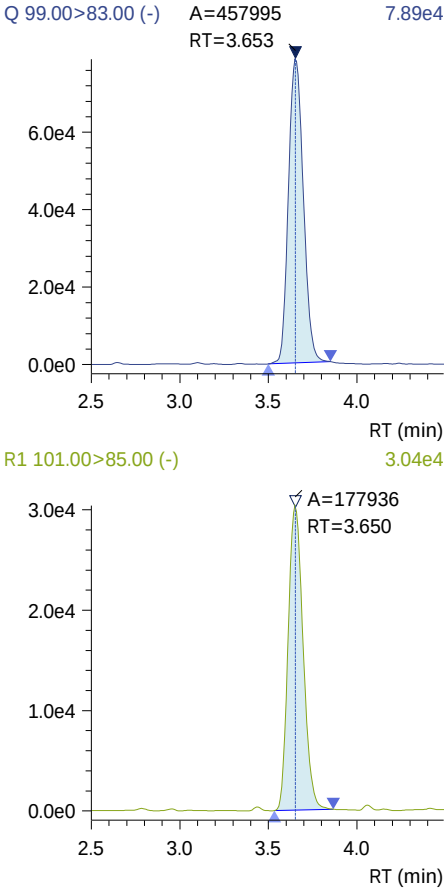
## PERCHLORATE9

Sample ID: PERCHLORATE9
Date Acquired: 6/23/2023 3:07:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 2

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.653 | 457995 | 103207 | 28.1035 | ng/mL | 101.00 >85.00 | 38.85 | 25.05-46.52 |
| Sodium Perchlorate-18O4_IS | Auto | 3.650 | 103207 | 103207 | 1.0000 | ng/mL | ---- | ---- | |

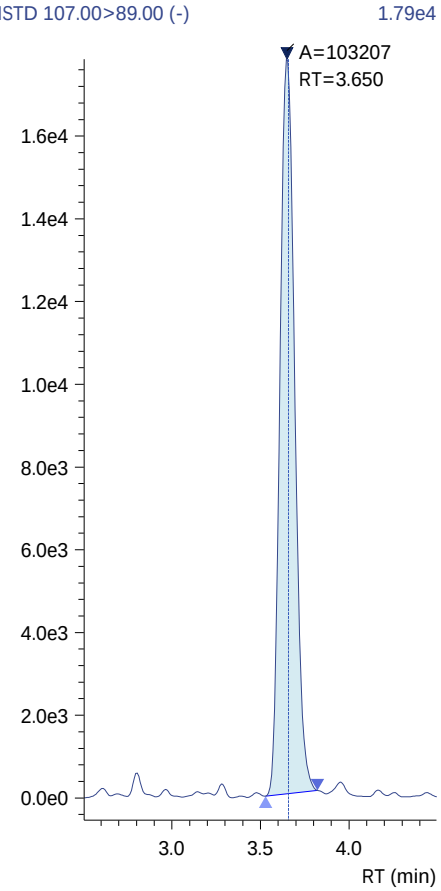
### Perchlorate

Conc 28.1035
R#1 38.85 (35.79)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 9:45:37 AM

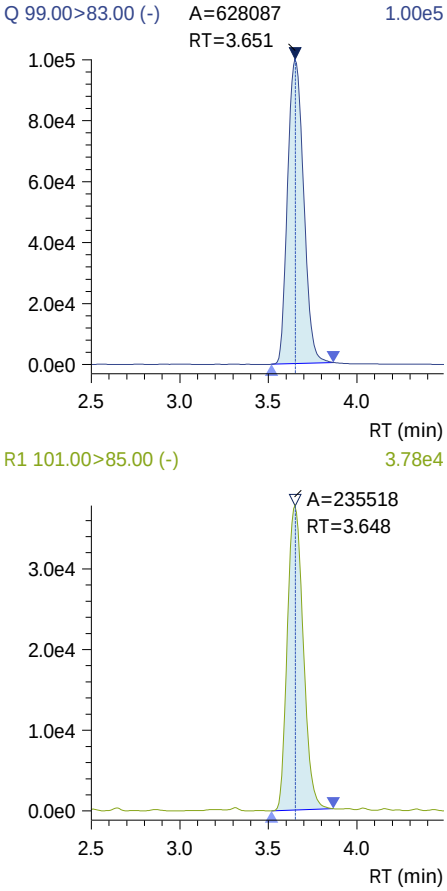
## PERCHLORATE10

Sample ID: PERCHLORATE10
Date Acquired: 6/23/2023 3:13:04 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 2

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.651 | 6280<br>87 | 81644 | 48.71<br>99 | ng/mL | 101.00<br>>85.00 | 37.50 | 25.05-46.52 |
| Sodium Perchlorate-18O4_IS | Auto | 3.645 | 81644 | 81644 | 1.0000 | ng/mL | ---- | ---- | |

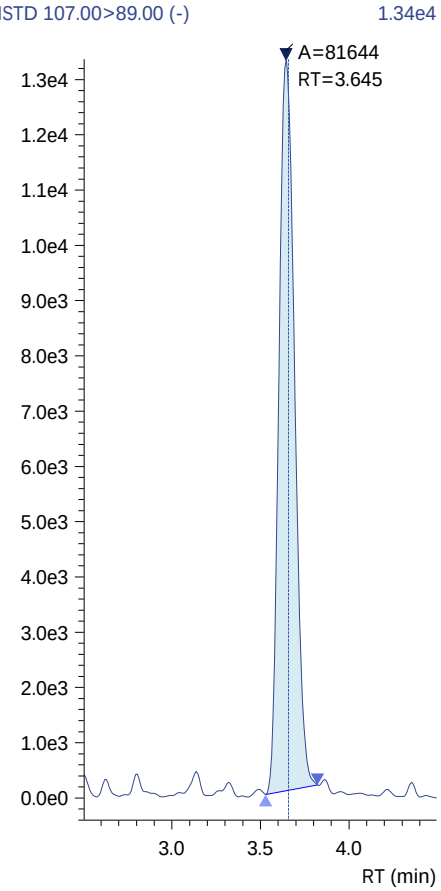
### Perchlorate

Conc 48.7199
R#1 37.50 (35.79)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 9:45:37 AM

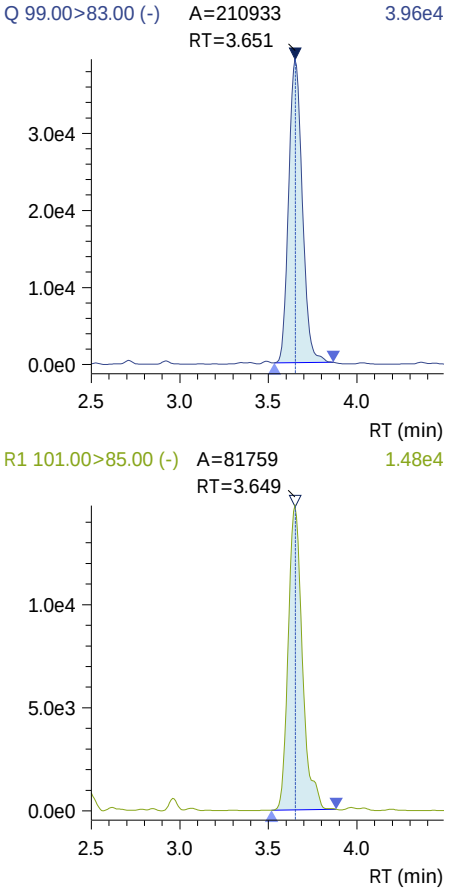
## PERCHLORATEICV

Sample ID: PERCHLORATEICV
Date Acquired: 6/23/2023 3:18:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 2

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.651 | 210933 | 138145 | 9.6698 | ng/mL | 101.00 >85.00 | 38.76 | 25.05-46.52 |
| Sodium Perchlorate-18O4_IS | Auto | 3.646 | 138145 | 138145 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

Conc 9.6698
R#1 38.76 (35.79)

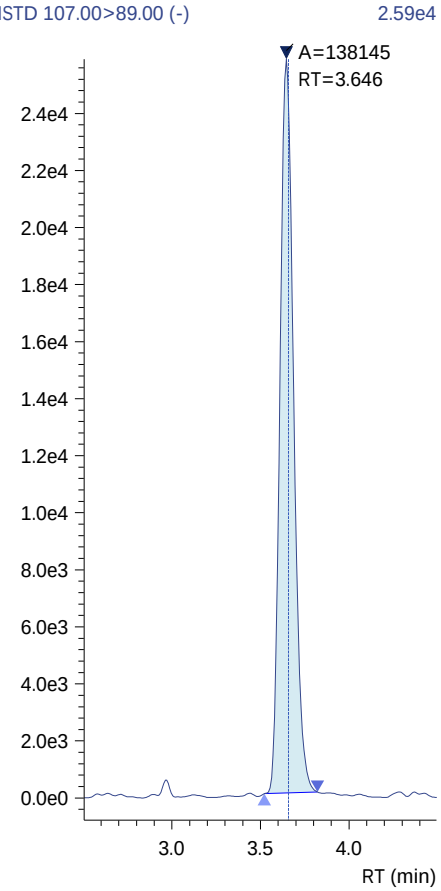






### Sodium Perchlorate-18O4_IS

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

**20230626-808705**

# Injection Log

LCMS01 -Shimadzu 8050

**1st Review: XM**
**2nd Review: GC**

**ICAL Date:** 6/23/2023
**Cal. Std. xp:** 07/31/2023
**ICAL ID:** EC2300010

**Mobile Phases : A:**20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

| | Sample Name | | File Name | Acquisition Method | Dilution | Comments | Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | LODV | | 20230626-001 | Perchlorate6850c.lcm | 1x | DNU-RR | 6/26/2023 8:48 |
| 2 | LODV | | 20230626-002 | Perchlorate6850c.lcm | 1x | 227501 | 6/26/2023 9:03 |
| 3 | ICS | | 20230626-003 | Perchlorate6850c.lcm | 1x | 32103024 | 6/26/2023 9:11 |
| 4 | CCV | | 20230626-004 | Perchlorate6850c.lcm | 1x | 227251 | 6/26/2023 9:16 |
| 5 | E2300549-002 | | 20230626-005 | Perchlorate6850c.lcm | 1x | | 6/26/2023 9:33 |
| 6 | K2306921-001 | | 20230626-006 | Perchlorate6850c.lcm | 1x | | 6/26/2023 9:38 |
| 7 | K2306921-003 | | 20230626-007 | Perchlorate6850c.lcm | 1x | | 6/26/2023 9:44 |
| 8 | EQ2300303-01 | | 20230626-008 | Perchlorate6850c.lcm | 1x | | 6/26/2023 9:50 |
| 9 | EQ2300303-02 | | 20230626-009 | Perchlorate6850c.lcm | 1x | DNU-RR | 6/26/2023 9:55 |
| 10 | EQ2300303-03 | | 20230626-010 | Perchlorate6850c.lcm | 1x | | 6/26/2023 10:01 |
| 11 | EQ2300301-04 | | 20230626-011 | Perchlorate6850c.lcm | 1x | | 6/26/2023 10:06 |
| 12 | EQ2300301-05 | | 20230626-012 | Perchlorate6850c.lcm | 1x | | 6/26/2023 10:39 |
| 13 | E2300570-001 | | 20230626-013 | Perchlorate6850c.lcm | 5x | | 6/26/2023 10:45 |
| 14 | E2300570-002 | | 20230626-014 | Perchlorate6850c.lcm | 1x | 32103024 | 6/26/2023 10:50 |
| 15 | CCV | | 20230626-015 | Perchlorate6850c.lcm | 1x | 227251 | 6/26/2023 10:56 |
| 16 | E2300570-003 | | 20230626-016 | Perchlorate6850c.lcm | 5000x | | 6/26/2023 11:01 |
| 17 | E2300570-004 | | 20230626-017 | Perchlorate6850c.lcm | 5000x | | 6/26/2023 11:07 |
| 18 | E2300570-005 | | 20230626-018 | Perchlorate6850c.lcm | 1x | | 6/26/2023 11:12 |
| 19 | E2300570-006 | | 20230626-019 | Perchlorate6850c.lcm | 1x | | 6/26/2023 11:18 |
| 20 | E2300570-007 | | 20230626-020 | Perchlorate6850c.lcm | 1000x | | 6/26/2023 11:23 |
| 21 | E2300571-001 | | 20230626-021 | Perchlorate6850c.lcm | 1x | | 6/26/2023 11:29 |
| 22 | E2300571-002 | | 20230626-022 | Perchlorate6850c.lcm | 1x | | 6/26/2023 11:35 |
| 23 | E2300571-003 | | 20230626-023 | Perchlorate6850c.lcm | 1x | | 6/26/2023 11:40 |
| 24 | E2300571-004 | | 20230626-024 | Perchlorate6850c.lcm | 1000x | | 6/26/2023 11:46 |
| 25 | E2300571-005 | | 20230626-025 | Perchlorate6850c.lcm | 1x | | 6/26/2023 11:51 |
| 26 | CCV | | 20230626-026 | Perchlorate6850c.lcm | 1x | 227251 | 6/26/2023 11:57 |
| 27 | E2300571-006 | | 20230626-027 | Perchlorate6850c.lcm | 1x | | 6/26/2023 12:02 |
| 28 | E2300571-007 | | 20230626-028 | Perchlorate6850c.lcm | 500x | | 6/26/2023 12:08 |
| 29 | E2300571-008 | | 20230626-029 | Perchlorate6850c.lcm | 1x | DNU-RR | 6/26/2023 12:13 |
| 30 | E2300571-009 | | 20230626-030 | Perchlorate6850c.lcm | 1x | DNU-RR | 6/26/2023 12:19 |
| 31 | R2305214-008 | | 20230626-031 | Perchlorate6850c.lcm | 1x | | 6/26/2023 12:24 |
| 32 | R2305402-005 | | 20230626-032 | Perchlorate6850c.lcm | 1x | | 6/26/2023 12:30 |
| 33 | R2305457-006 | | 20230626-033 | Perchlorate6850c.lcm | 1x | | 6/26/2023 12:35 |
| 34 | E2300589-001 | | 20230626-034 | Perchlorate6850c.lcm | 1x | | 6/26/2023 12:41 |
| 35 | EQ2300307-01 | | 20230626-035 | Perchlorate6850c.lcm | 1x | | 6/26/2023 12:52 |
| 36 | CCV | | 20230626-036 | Perchlorate6850c.lcm | 1x | 227251 | 6/26/2023 12:58 |
| 37 | EQ2300307-02 | | 20230626-037 | Perchlorate6850c.lcm | 1x | | 6/26/2023 13:07 |

**20230626-808705**

# Injection Log

LCMS01 -Shimadzu 8050

**1st Review: XM**
**2nd Review: GC**

**ICAL Date:** 6/23/2023
**Cal. Std. xp:** 07/31/2023
**ICAL ID:** EC2300010

**Mobile Phases :** **A:**20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

| | Sample Name | | File Name | Acquisition Method | Dilution | Comments | Date/Time |
|---|---|---|---|---|---|---|---|
| 38 | EQ2300307-03 | | 20230626-038 | Perchlorate6850c.lcm | 1x | | 6/26/2023 13:12 |
| 39 | E2300575-001 | | 20230626-039 | Perchlorate6850c.lcm | 1x | | 6/26/2023 13:18 |
| 40 | E2300575-002 | | 20230626-040 | Perchlorate6850c.lcm | 1x | | 6/26/2023 13:24 |
| 41 | E2300575-003 | | 20230626-041 | Perchlorate6850c.lcm | 1x | | 6/26/2023 13:29 |
| 42 | E2300575-004 | | 20230626-042 | Perchlorate6850c.lcm | 1x | | 6/26/2023 13:35 |
| 43 | E2300575-005 | | 20230626-043 | Perchlorate6850c.lcm | 1x | | 6/26/2023 13:40 |
| 44 | E2300575-006 | | 20230626-044 | Perchlorate6850c.lcm | 1x | | 6/26/2023 13:46 |
| 45 | E2300587-001 | | 20230626-045 | Perchlorate6850c.lcm | 1x | | 6/26/2023 13:51 |
| 46 | E2300587-002 | | 20230626-046 | Perchlorate6850c.lcm | 1x | | 6/26/2023 13:57 |
| 47 | CCV | | 20230626-047 | Perchlorate6850c.lcm | 1x | 227251 | 6/26/2023 14:02 |
| 48 | E2300587-003 | | 20230626-048 | Perchlorate6850c.lcm | 1x | | 6/26/2023 14:08 |
| 49 | E2300587-004 | | 20230626-049 | Perchlorate6850c.lcm | 1x | | 6/26/2023 14:13 |
| 50 | E2300587-005 | | 20230626-050 | Perchlorate6850c.lcm | 5000x | | 6/26/2023 14:19 |
| 51 | E2300587-006 | | 20230626-051 | Perchlorate6850c.lcm | 1x | | 6/26/2023 14:25 |
| 52 | E2300587-007 | | 20230626-052 | Perchlorate6850c.lcm | 1x | | 6/26/2023 14:30 |
| 53 | E2300587-008 | | 20230626-053 | Perchlorate6850c.lcm | 1x | | 6/26/2023 14:36 |
| 54 | E2300587-009 | | 20230626-054 | Perchlorate6850c.lcm | 1x | | 6/26/2023 14:41 |
| 55 | E2300587-010 | | 20230626-055 | Perchlorate6850c.lcm | 1x | | 6/26/2023 14:47 |
| 56 | E2300571-008 | | 20230626-056 | Perchlorate6850c.lcm | 1x | | 6/26/2023 14:52 |
| 57 | E2300571-009 | | 20230626-057 | Perchlorate6850c.lcm | 1x | | 6/26/2023 14:58 |
| 58 | CCV | | 20230626-058 | Perchlorate6850c.lcm | 1x | 227251 | 6/26/2023 15:03 |
| 59 | EQ2300303-02 | | 20230626-059 | Perchlorate6850c.lcm | 1x | | 6/26/2023 15:09 |
| 60 | CCV | | 20230626-060 | Perchlorate6850c.lcm | 1x | 227251 | 6/26/2023 15:16 |

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300570 |
| **Project:** | HS23060999 | **Date Analyzed:** | 6/26/23 09:16 |

**Internal Standard Area and RT Summary**

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

| | | | |
|---|---|---|---|
| **File ID:** | I:\LCMS01\DATA\20230626\20230626-004 | **Lab Code:** | EQ2300311-01 |
| **Instrument ID:** | E-LCMS-01 | **Analysis Lot:** | 808705 |
| **Analytical Method:** | 6850 | **Signal ID:** | 1 |

| | | Sodium Perchlorate-18O4 | |
|---|---|---|---|
| | | **Area** | **RT** |
| | **ICAL Average ==>** | 134,284 | 3.65 |
| | **Upper Limit ==>** | 201,426 | 5.65 |
| | **Lower Limit ==>** | 67,142 | 1.65 |
| ***Associated Analyses*** | | | |
| Continuing Calibration Verification | EQ2300311-01 | 146,249 | 3.62 |
| Method Blank | EQ2300303-01 | 174,930 | 3.63 |
| Duplicate Lab Control Sample | EQ2300303-03 | 173,140 | 3.62 |
| 102_061323 | E2300570-001 | 136,170 | 3.63 |
| 18CPTMW03SW_061323 | E2300570-002 | 155,757 | 3.63 |

**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:** HS23060999

**Service Request:** E2300570
**Date Analyzed:** 6/26/23 10:56

## Internal Standard Area and RT Summary
## Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

**File ID:** I:\LCMS01\DATA\20230626\20230626-015
**Instrument ID:** E-LCMS-01
**Analytical Method:** 6850

**Lab Code:** EQ2300311-02
**Analysis Lot:** 808705
**Signal ID:** 1

| | | Sodium Perchlorate-18O4 | |
|---|---|---|---|
| | | **Area** | **RT** |
| | **ICAL Average ==>** | 134,284 | 3.65 |
| | **Upper Limit ==>** | 201,426 | 5.65 |
| | **Lower Limit ==>** | 67,142 | 1.65 |
| ***Associated Analyses*** | | | |
| Continuing Calibration Verification | EQ2300311-02 | 148,479 | 3.62 |
| 120_061323 | E2300570-003 | 169,240 | 3.62 |
| MW14_061323 | E2300570-004 | 89,131 | 3.62 |
| 18CPTMW22DW_061323 | E2300570-005 | 186,365 | 3.62 |
| 18CPTMW22R_061323 | E2300570-006 | 174,660 | 3.62 |
| 18CPTMW22SW_061323 | E2300570-007 | 143,957 | 3.62 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300570 |
| **Project:** | HS23060999 | **Date Analyzed:** | 6/26/23 11:57 |

**Internal Standard Area and RT Summary**

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

| | | | |
|---|---|---|---|
| **File ID:** | I:\LCMS01\DATA\20230626\20230626-026 | **Lab Code:** | EQ2300311-03 |
| **Instrument ID:** | E-LCMS-01 | **Analysis Lot:** | 808705 |
| **Analytical Method:** | 6850 | **Signal ID:** | 1 |

| | | Sodium Perchlorate-18O4 | |
|---|---|---|---|
| | | **Area** | **RT** |
| | **ICAL Average ==>** | 134,284 | 3.65 |
| | **Upper Limit ==>** | 201,426 | 5.65 |
| | **Lower Limit ==>** | 67,142 | 1.65 |
| ***Associated Analyses*** | | | |
| Continuing Calibration Verification | EQ2300311-03 | 153,571 | 3.62 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300570 |
| **Project:** | HS23060999 | **Date Analyzed:** | 6/26/23 12:58 |

**Internal Standard Area and RT Summary**

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

| | | | |
|---|---|---|---|
| **File ID:** | I:\LCMS01\DATA\20230626\20230626-036 | **Lab Code:** | EQ2300311-04 |
| **Instrument ID:** | E-LCMS-01 | **Analysis Lot:** | 808705 |
| **Analytical Method:** | 6850 | **Signal ID:** | 1 |

| | | Sodium Perchlorate-18O4 | |
|---|---|---|---|
| | | **Area** | **RT** |
| | **ICAL Average ==>** | 134,284 | 3.65 |
| | **Upper Limit ==>** | 201,426 | 5.65 |
| | **Lower Limit ==>** | 67,142 | 1.65 |
| ***Associated Analyses*** | | | |
| Continuing Calibration Verification | EQ2300311-04 | 154,111 | 3.62 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300570 |
| **Project:** | HS23060999 | **Date Analyzed:** | 6/26/23 14:02 |

**Internal Standard Area and RT Summary**

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

| | | | |
|---|---|---|---|
| **File ID:** | I:\LCMS01\DATA\20230626\20230626-047 | **Lab Code:** | EQ2300311-05 |
| **Instrument ID:** | E-LCMS-01 | **Analysis Lot:** | 808705 |
| **Analytical Method:** | 6850 | **Signal ID:** | 1 |

| | | Sodium Perchlorate-18O4 | |
|---|---|---|---|
| | | **Area** | **RT** |
| | **ICAL Average ==>** | 134,284 | 3.65 |
| | **Upper Limit ==>** | 201,426 | 5.65 |
| | **Lower Limit ==>** | 67,142 | 1.65 |
| ***Associated Analyses*** | | | |
| Continuing Calibration Verification | EQ2300311-05 | 158,132 | 3.62 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300570 |
| **Project:** | HS23060999 | **Date Analyzed:** | 6/26/23 15:03 |

**Internal Standard Area and RT Summary**

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

| | | | |
|---|---|---|---|
| **File ID:** | I:\LCMS01\DATA\20230626\20230626-058 | **Lab Code:** | EQ2300311-06 |
| **Instrument ID:** | E-LCMS-01 | **Analysis Lot:** | 808705 |
| **Analytical Method:** | 6850 | **Signal ID:** | 1 |

| | | Sodium Perchlorate-18O4 | |
|---|---|---|---|
| | | **Area** | **RT** |
| | **ICAL Average ==>** | 134,284 | 3.65 |
| | **Upper Limit ==>** | 201,426 | 5.65 |
| | **Lower Limit ==>** | 67,142 | 1.65 |
| ***Associated Analyses*** | | | |
| Continuing Calibration Verification | EQ2300311-06 | 157,388 | 3.62 |
| Lab Control Sample | EQ2300303-02 | 185,702 | 3.62 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300570 |
| **Project:** | HS23060999 | **Date Analyzed:** | 6/26/23 15:16 |

**Internal Standard Area and RT Summary**

**Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry**

| | | | |
|---|---|---|---|
| **File ID:** | I:\LCMS01\DATA\20230626\20230626-060 | **Lab Code:** | EQ2300311-07 |
| **Instrument ID:** | E-LCMS-01 | **Analysis Lot:** | 808705 |
| **Analytical Method:** | 6850 | **Signal ID:** | 1 |

| | | Sodium Perchlorate-18O4 | |
|---|---|---|---|
| | | **Area** | **RT** |
| | **ICAL Average ==>** | 134,284 | 3.65 |
| | **Upper Limit ==>** | 201,426 | 5.65 |
| | **Lower Limit ==>** | 67,142 | 1.65 |
| ***Associated Analyses*** | | | |
| Continuing Calibration Verification | EQ2300311-07 | 154,611 | 3.62 |

**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:** HS23060999

**Service Request:** E2300570
**Date Analyzed:** 6/26/23

## 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\20230626\20230626-004

**Calibration Date:** 6/23/23
**Calibration ID:** EC2300010
**Analysis Lot:** 808705
**Units:** ng/mL

| Analyte Name | Expected | Result | Average RF | CCV RF | %D | %Drift | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | 10.0 | 9.89 | 0.1579 | 0.1561 | -1.1 | NA | ± 15 % | Average RF |

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS23060999

**Service Request:** E2300570
**Date Analyzed:** 6/26/23

## 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\20230626\20230626-015

**Calibration Date:** 6/23/23
**Calibration ID:** EC2300010
**Analysis Lot:** 808705
**Units:** ng/mL

| Analyte Name | Expected | Result | Average RF | CCV RF | %D | %Drift | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | 10.0 | 10.2 | 0.1579 | 0.1605 | 1.6 | NA | ± 15 % | Average RF |

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS23060999

**Service Request:** E2300570
**Date Analyzed:** 6/26/23

## 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\20230626\20230626-026

**Calibration Date:** 6/23/23
**Calibration ID:** EC2300010
**Analysis Lot:** 808705
**Units:** ng/mL

| Analyte Name | Expected | Result | Average RF | CCV RF | %D | %Drift | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | 10.0 | 10.1 | 0.1579 | 0.1598 | 1.2 | NA | ± 15 % | Average RF |

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS23060999

**Service Request:** E2300570
**Date Analyzed:** 6/26/23

## 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\20230626\20230626-036

**Calibration Date:** 6/23/23
**Calibration ID:** EC2300010
**Analysis Lot:** 808705
**Units:** ng/mL

| Analyte Name | Expected | Result | Average RF | CCV RF | %D | %Drift | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | 10.0 | 10.1 | 0.1579 | 0.1602 | 1.5 | NA | ± 15 % | Average RF |

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS23060999

**Service Request:** E2300570
**Date Analyzed:** 6/26/23

## 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\20230626\20230626-047

**Calibration Date:** 6/23/23
**Calibration ID:** EC2300010
**Analysis Lot:** 808705
**Units:** ng/mL

| Analyte Name | Expected | Result | Average RF | CCV RF | %D | %Drift | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | 10.0 | 9.91 | 0.1579 | 0.1565 | -0.9 | NA | ± 15 % | Average RF |

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS23060999

**Service Request:** E2300570
**Date Analyzed:** 6/26/23

## 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\20230626\20230626-058

**Calibration Date:** 6/23/23
**Calibration ID:** EC2300010
**Analysis Lot:** 808705
**Units:** ng/mL

| Analyte Name | Expected | Result | Average RF | CCV RF | %D | %Drift | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | 10.0 | 9.85 | 0.1579 | 0.1555 | -1.5 | NA | ± 15 % | Average RF |

**ALS Group USA, Corp. dba ALS Environmental**

QA/QC Report

**Client:** ALS Environmental - US
**Project:** HS23060999

**Service Request:** E2300570
**Date Analyzed:** 6/26/23

## 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\20230626\20230626-060

**Calibration Date:** 6/23/23
**Calibration ID:** EC2300010
**Analysis Lot:** 808705
**Units:** ng/mL

| Analyte Name | Expected | Result | Average RF | CCV RF | %D | %Drift | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | 10.0 | 10.2 | 0.1579 | 0.1614 | 2.2 | NA | ± 15 % | Average RF |

# Insight Report

Printed at 6/26/2023 3:31:35 PM

Method File: I:\LCMS01\DATA\20230626\20230626.lcm
Project File: I:\LCMS01\DATA\20230626\20230626.damlp

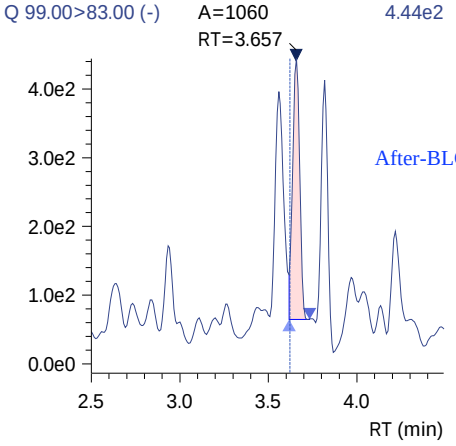
## LODV

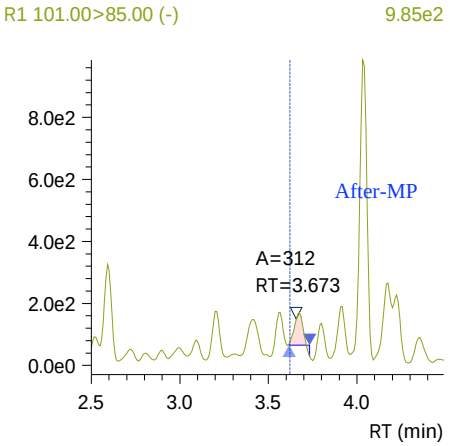
Sample ID: LODV
Date Acquired: 6/26/2023 9:03:42 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-002.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | M | 3.657 | 1060 | 153861 | 0.0436 | ng/mL | 101.00 >85.00 | 29.45 | 22.93-42.59 |
| Sodium Perchlorate-18O4 _IS | Auto | 3.636 | 1538 61 | 153861 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

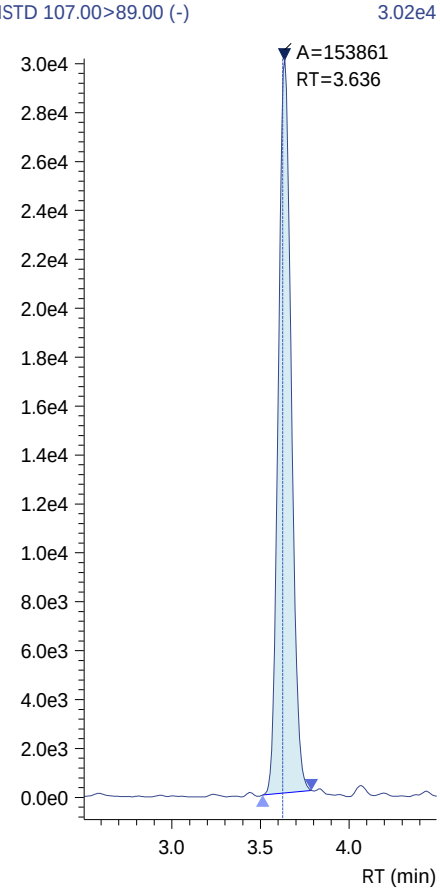
Conc 0.0436
R#1 29.45 (32.76)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 3:35:16 PM

Method File: I:\LCMS01\DATA\20230626\20230626.lcm
Project File: I:\LCMS01\DATA\20230626\20230626.damlp

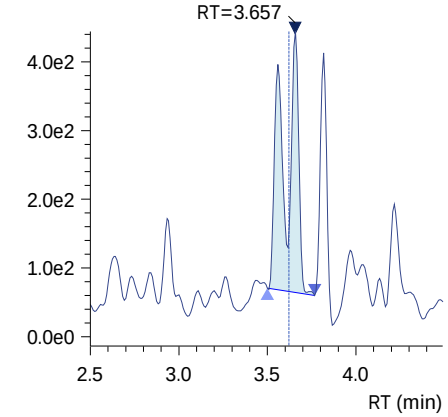
## LODV

Sample ID: LODV
Date Acquired: 6/26/2023 9:03:42 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-002.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

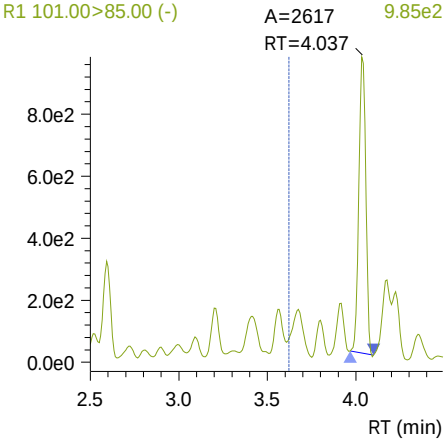
### Perchlorate

Conc 0.0879
R#1 0.00 (32.76)

Q 99.00>83.00 (-) A=2155 4.44e2



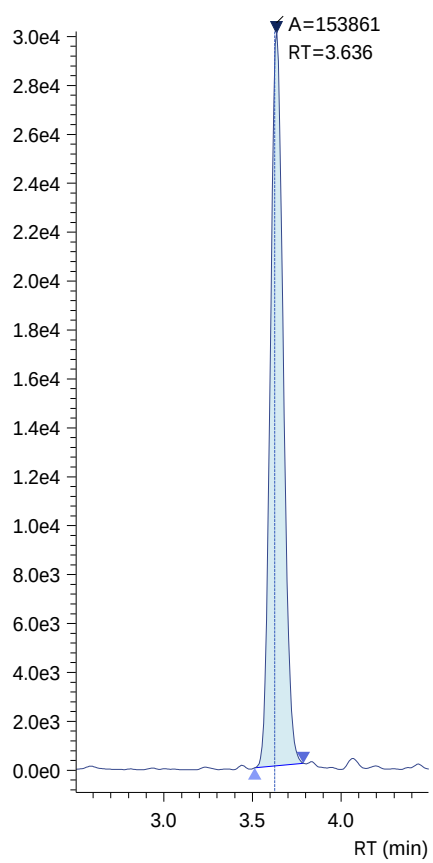

R1 101.00>85.00 (-) A=2617 9.85e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.02e4



# Insight Report

Printed at 6/26/2023 3:31:35 PM

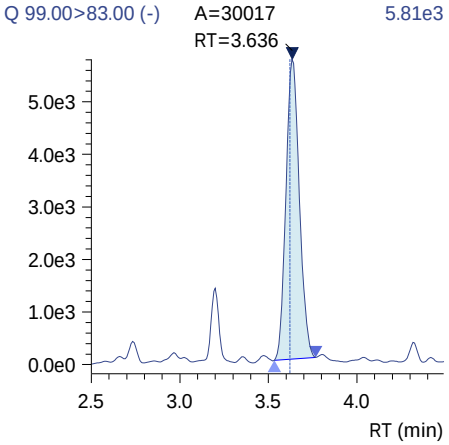
## ICS

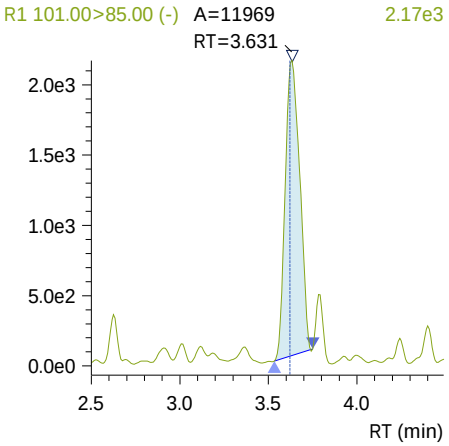
Sample ID: ICS
Date Acquired: 6/26/2023 9:11:15 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 0

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.636 | 30017 | 177905 | 1.0685 | ng/mL | 101.00 >85.00 | 39.88 | 22.93-42.59 |
| Sodium Perchlorate-18O4 _IS | Auto | 3.632 | 177905 | 177905 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

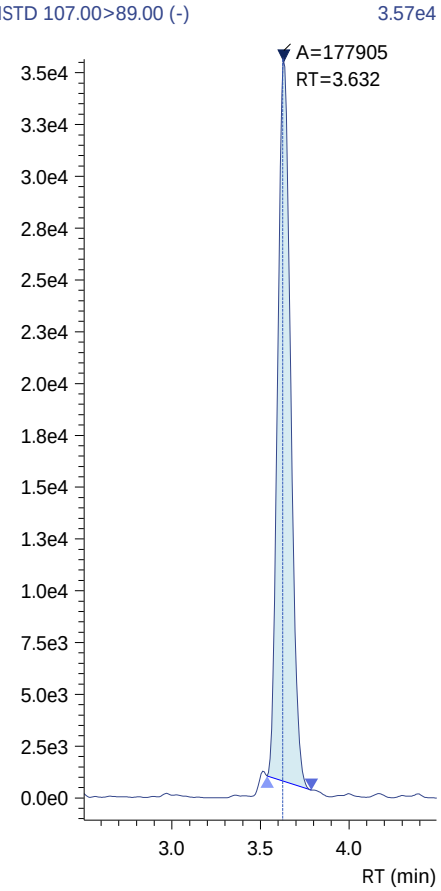
Conc 1.0685
R#1 39.88 (32.76)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 3:31:35 PM

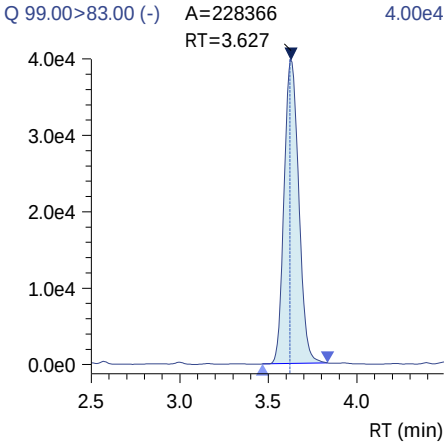
## CCV

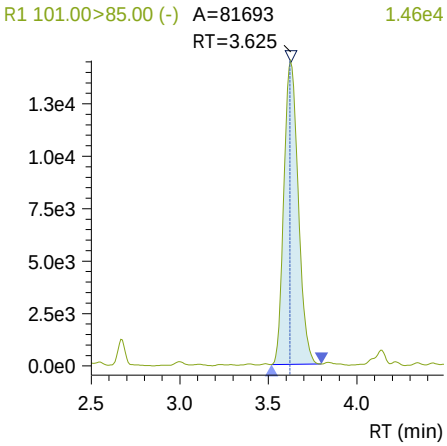
Sample ID: CCV
Date Acquired: 6/26/2023 9:16:46 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-004.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 2

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.627 | 228366 | 146249 | 9.8889 | ng/mL | 101.00 >85.00 | 35.77 | 22.93-42.59 |
| Sodium Perchlorate-18O4_IS | Auto | 3.624 | 146249 | 146249 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

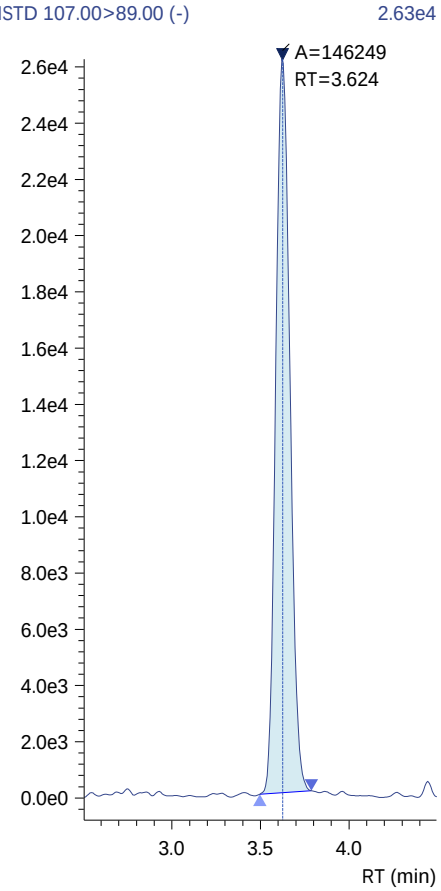
Conc 9.8889
R#1 35.77 (32.76)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 3:31:35 PM

## EQ2300303-01

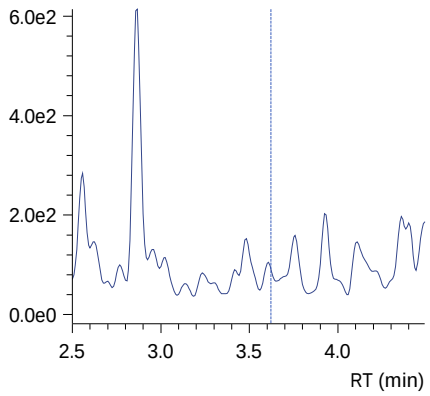
Sample ID: EQ2300303-01
Date Acquired: 6/26/2023 9:50:03 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-008.lcd
Vial: 24 | Inj. Volume: 10.0000uL | Tray: 3

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND(W/B) | ---- | ---- | 174930 | ---- | ng/mL | 101.00 >85.00 | 0.00 | 22.93-42.59 |
| Sodium Perchlorate-18O4_IS | Auto | 3.626 | 174930 | 174930 | 1.0000 | ng/mL | ---- | ---- | |

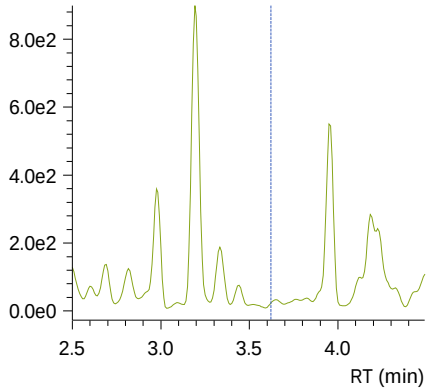
### Perchlorate

Conc ----
R#1 0.00 (32.76)

Q 99.00>83.00 (-) 6.14e2



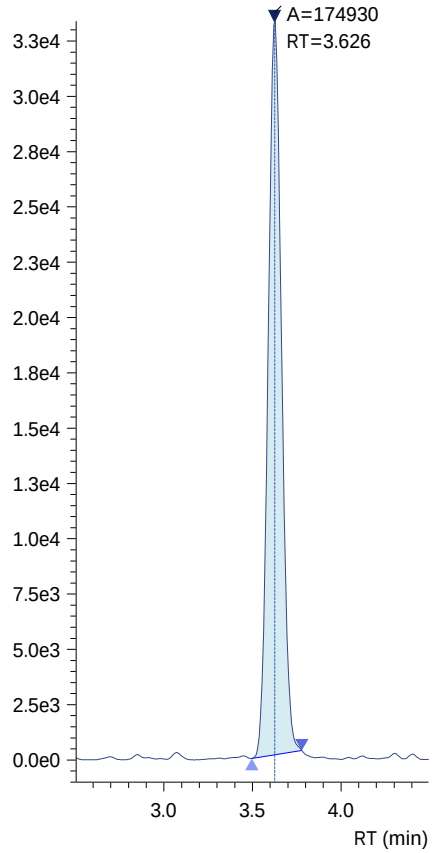

R1 101.00>85.00 (-) 8.99e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.34e4



# Insight Report

Printed at 6/26/2023 3:31:35 PM

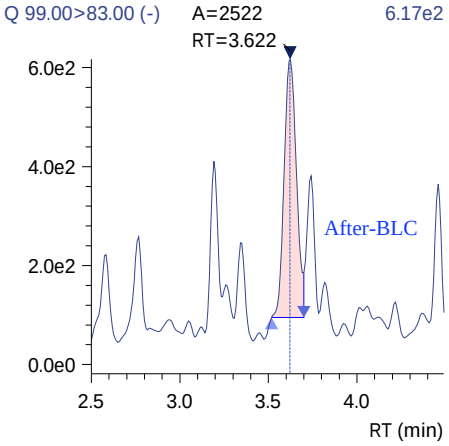
## EQ2300303-03

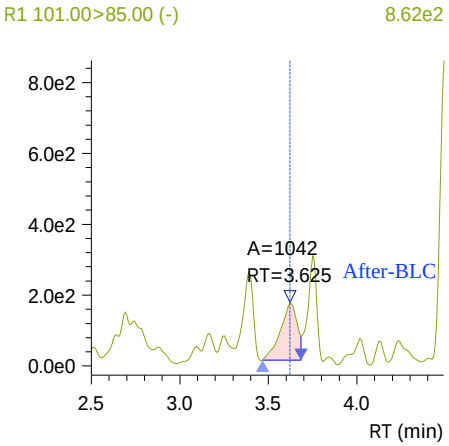
Sample ID: EQ2300303-03
Date Acquired: 6/26/2023 10:01:11 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-010.lcd
Vial: 26 | Inj. Volume: 10.0000uL | Tray: 3

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | M | 3.622 | 2522 | 173140 | 0.0922 | ng/mL | 101.00 >85.00 | 41.34 | 22.93-42.59 |
| Sodium Perchlorate-18O4 _IS | Auto | 3.623 | 1731 40 | 173140 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

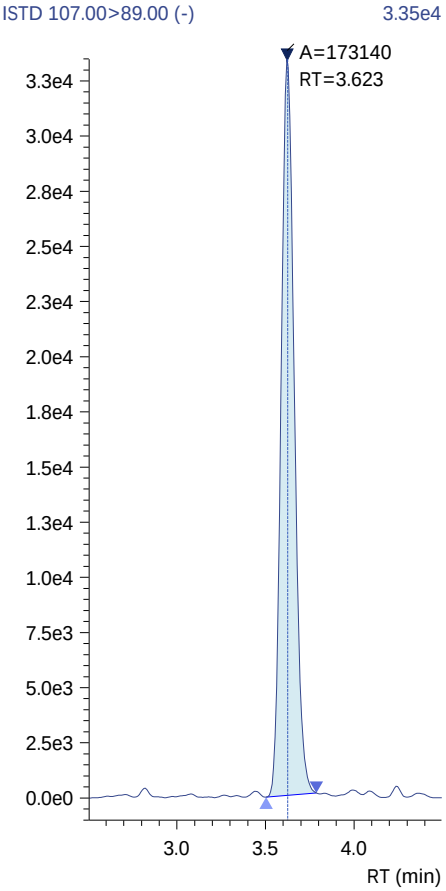
Conc 0.0922
R#1 41.34 (32.76)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

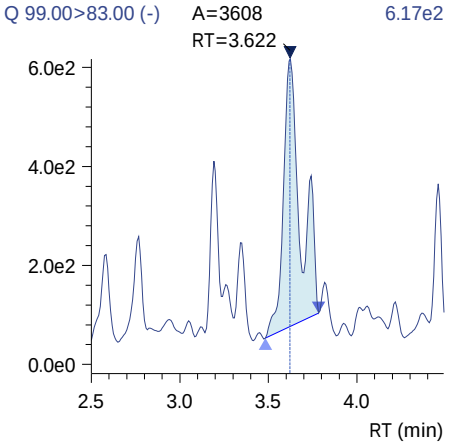
Printed at 6/26/2023 3:35:16 PM

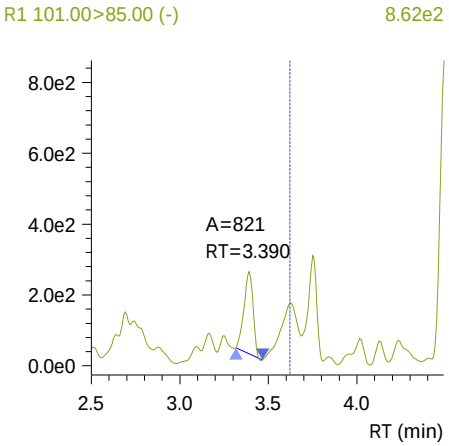
## EQ2300303-03

Sample ID: EQ2300303-03
Date Acquired: 6/26/2023 10:01:11 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-010.lcd
Vial: 26 | Inj. Volume: 10.0000uL | Tray: 3

### Perchlorate

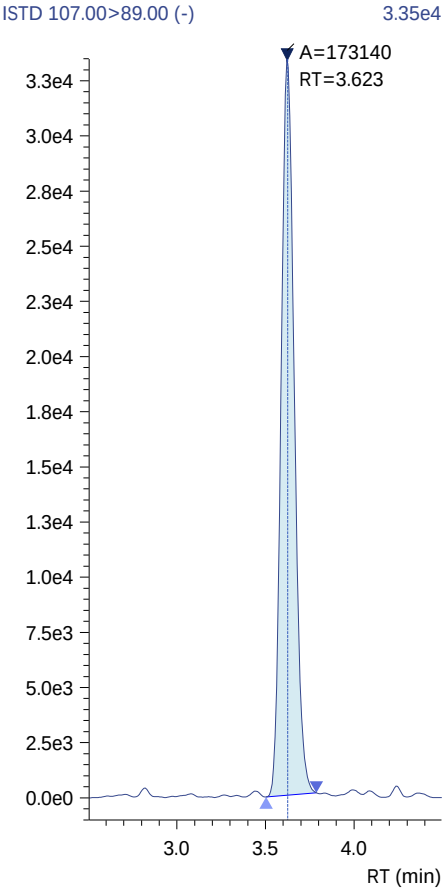
Conc 0.1308
R#1 0.00 (32.76)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 3:31:35 PM

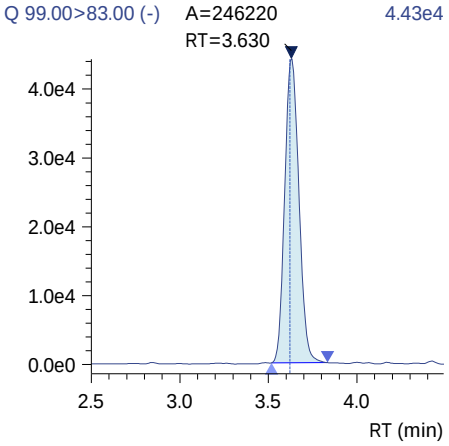
## E2300570-001x5

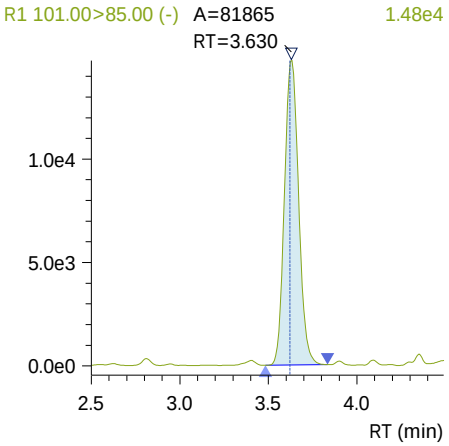
Sample ID: E2300570-001
Date Acquired: 6/26/2023 10:45:08 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-013.lcd
Vial: 27 | Inj. Volume: 10.0000uL | Tray: 3

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.630 | 246220 | 136170 | 11.4512 | ng/mL | 101.00 >85.00 | 33.25 | 22.93-42.59 |
| Sodium Perchlorate-18O4_IS | Auto | 3.627 | 136170 | 136170 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

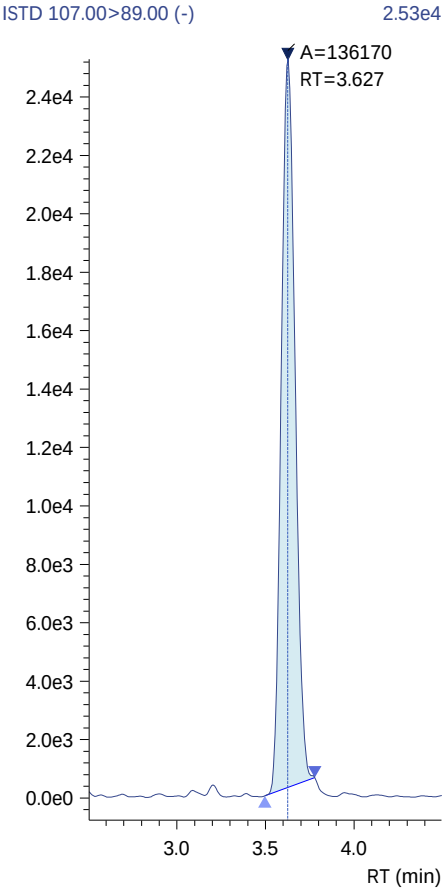
Conc 11.4512
R#1 33.25 (32.76)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 3:31:35 PM

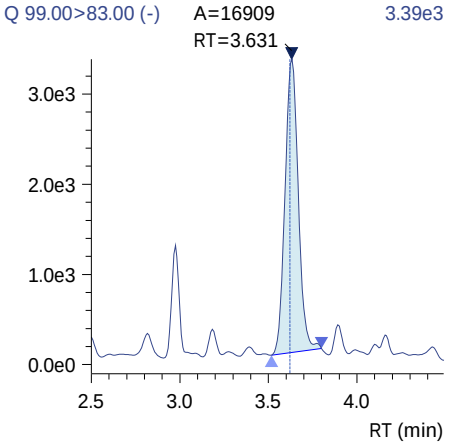
## E2300570-002

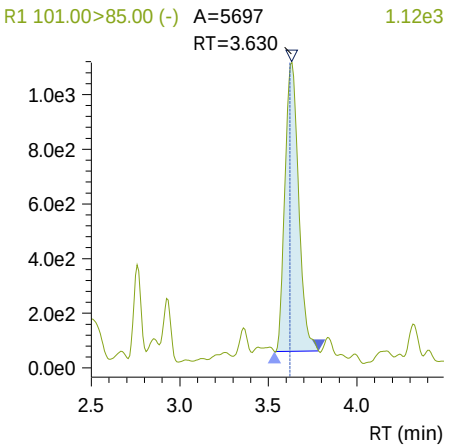
Sample ID: E2300570-002
Date Acquired: 6/26/2023 10:50:43 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-014.lcd
Vial: 28 | Inj. Volume: 10.0000uL | Tray: 3

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.631 | 16909 | 155757 | 0.6875 | ng/mL | 101.00 >85.00 | 33.69 | 22.93-42.59 |
| Sodium Perchlorate-18O4 _IS | Auto | 3.626 | 1557 57 | 155757 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

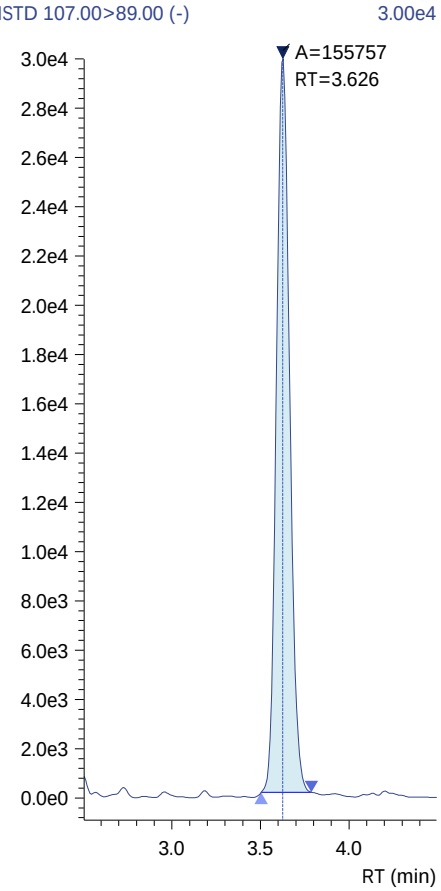
Conc 0.6875
R#1 33.69 (32.76)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 3:31:35 PM

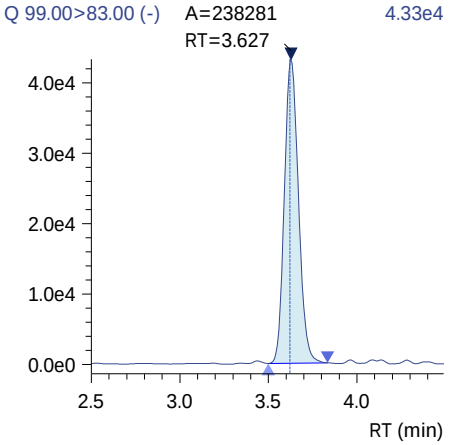
## CCV

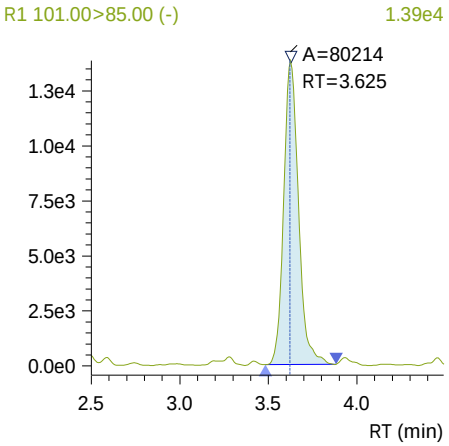
Sample ID: CCV
Date Acquired: 6/26/2023 10:56:15 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-015.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 2

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.627 | 238281 | 148479 | 10.1633 | ng/mL | 101.00 >85.00 | 33.66 | 22.93-42.59 |
| Sodium Perchlorate-18O4_IS | Auto | 3.624 | 148479 | 148479 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

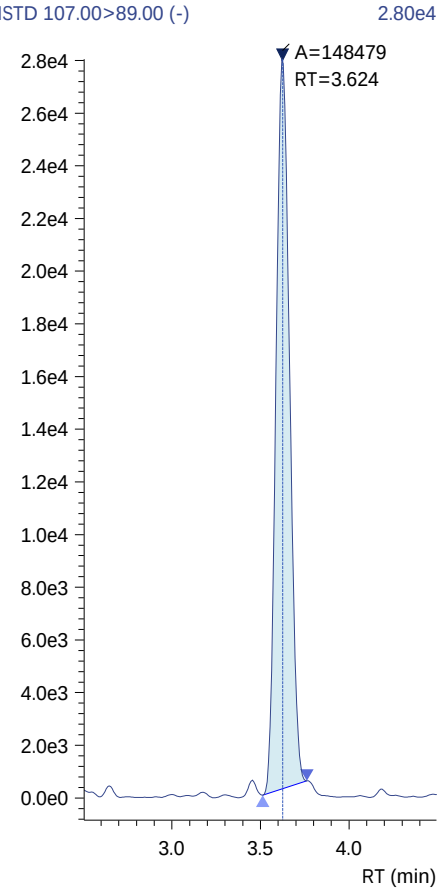
Conc 10.1633
R#1 33.66 (32.76)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 3:31:35 PM

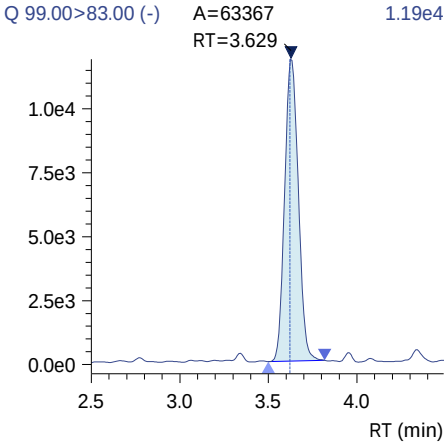
## E2300570-003x5k

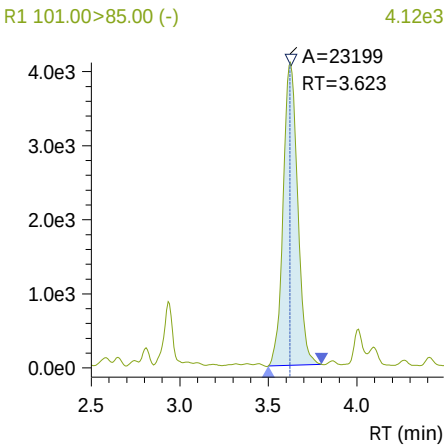
Sample ID: E2300570-003
Date Acquired: 6/26/2023 11:01:47 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-016.lcd
Vial: 29 | Inj. Volume: 10.0000uL | Tray: 3

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.629 | 63367 | 169240 | 2.3712 | ng/mL | 101.00 >85.00 | 36.61 | 22.93-42.59 |
| Sodium Perchlorate-18O4 _IS | Auto | 3.623 | 1692 40 | 169240 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

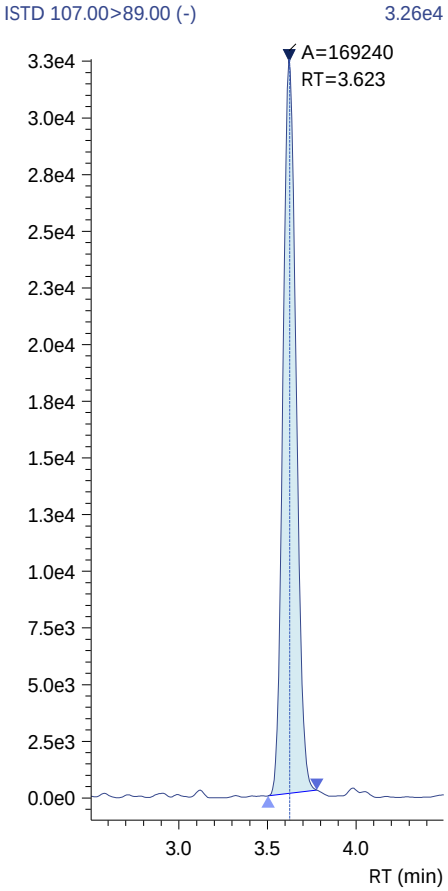
Conc 2.3712
R#1 36.61 (32.76)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 3:31:35 PM

## E2300570-004x5k

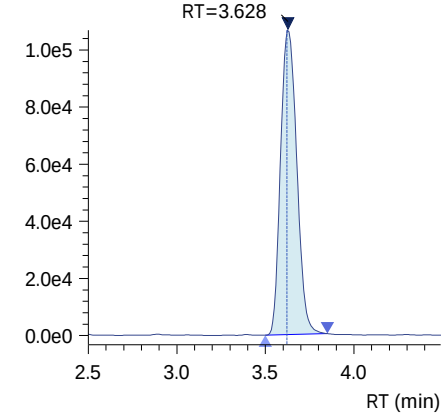
Sample ID: E2300570-004
Date Acquired: 6/26/2023 11:07:19 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-017.lcd
Vial: 30 | Inj. Volume: 10.0000uL | Tray: 3

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.628 | 6796<br>52 | 89131 | 48.29<br>10 | ng/mL | 101.00<br>>85.00 | 32.36 | 22.93-42.59 |
| Sodium Perchlorate-18O4_IS | Auto | 3.622 | 89131 | 89131 | 1.0000 | ng/mL | ---- | ---- | |

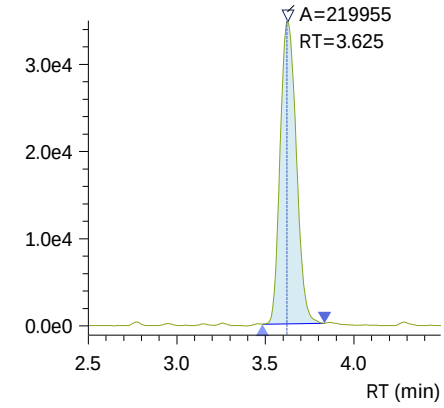
### Perchlorate

Conc 48.2910
R#1 32.36 (32.76)

Q 99.00>83.00 (-) A=679652 RT=3.628 1.07e5



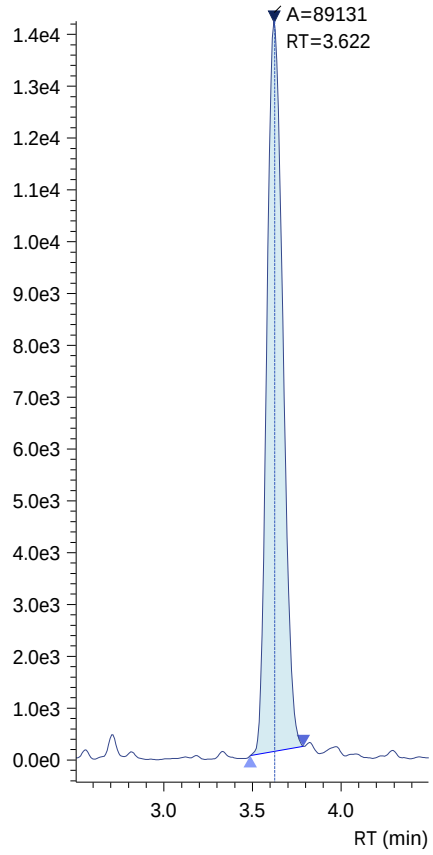

R1 101.00>85.00 (-) 3.50e4




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.43e4



# Insight Report

Printed at 6/26/2023 3:31:35 PM

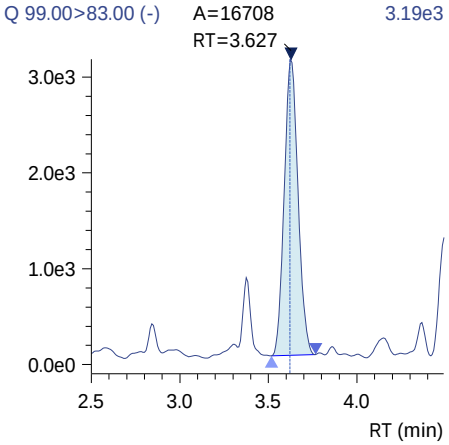
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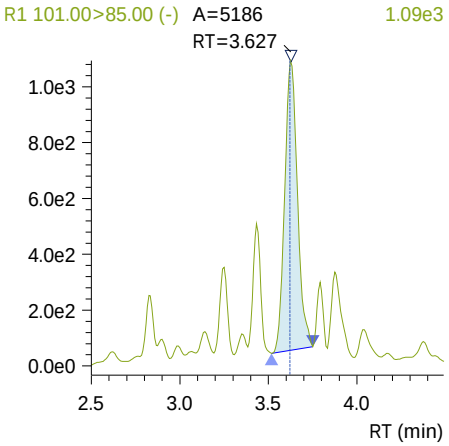
Sample ID: E2300570-005
Date Acquired: 6/26/2023 11:12:54 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-018.lcd
Vial: 31 | Inj. Volume: 10.0000uL | Tray: 3

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.627 | 16708 | 186365 | 0.5678 | ng/mL | 101.00 >85.00 | 31.04 | 22.93-42.59 |
| Sodium Perchlorate-18O4 _IS | Auto | 3.624 | 1863 65 | 186365 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

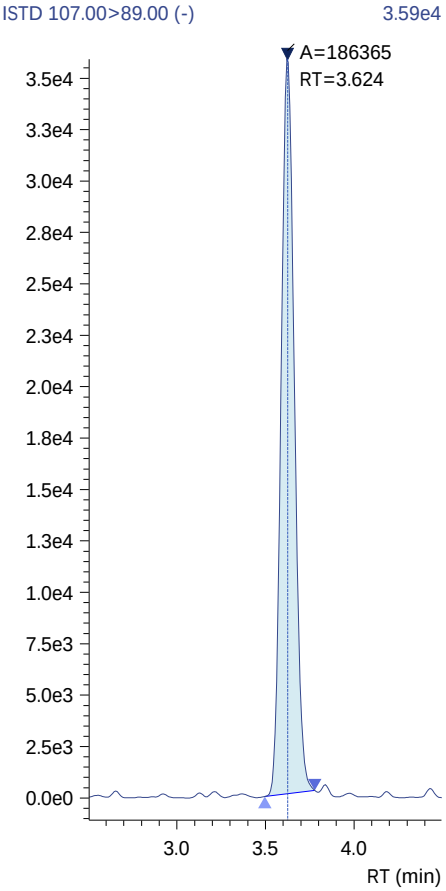
Conc 0.5678
R#1 31.04 (32.76)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 3:31:35 PM

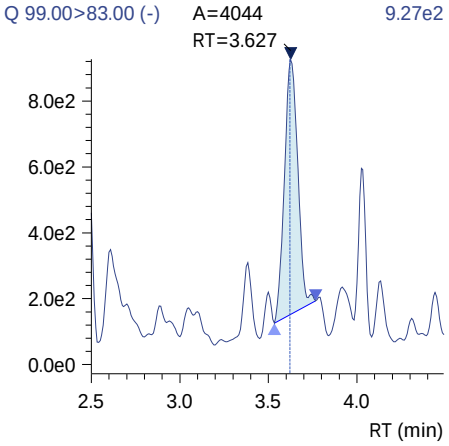
## E2300570-006

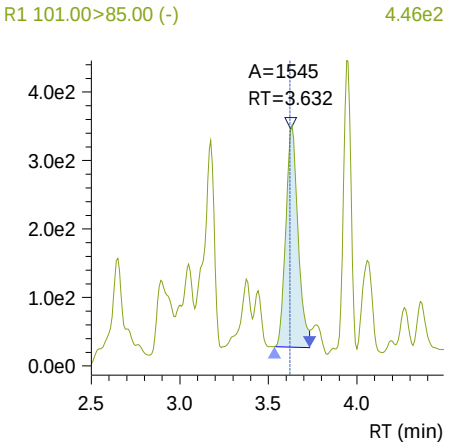
Sample ID: E2300570-006
Date Acquired: 6/26/2023 11:18:27 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-019.lcd
Vial: 32 | Inj. Volume: 10.0000uL | Tray: 3

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.627 | 4044 | 174660 | 0.1466 | ng/mL | 101.00 >85.00 | 38.20 | 22.93-42.59 |
| Sodium Perchlorate-18O4 _IS | Auto | 3.624 | 1746 60 | 174660 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

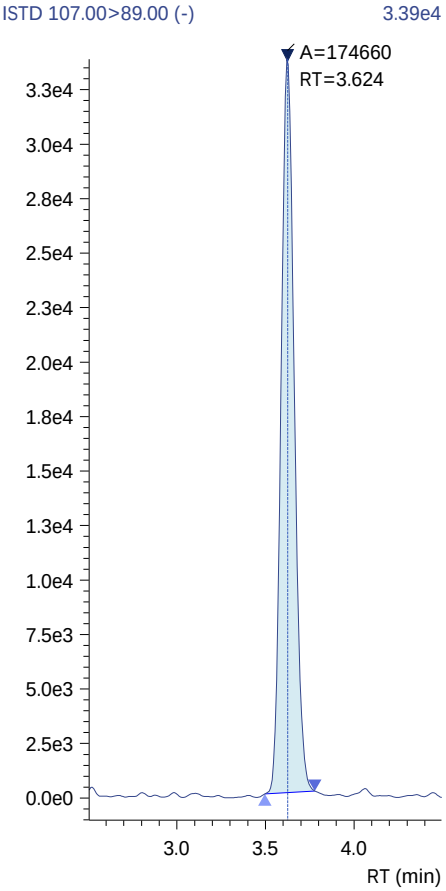
Conc 0.1466
R#1 38.20 (32.76)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 3:31:35 PM

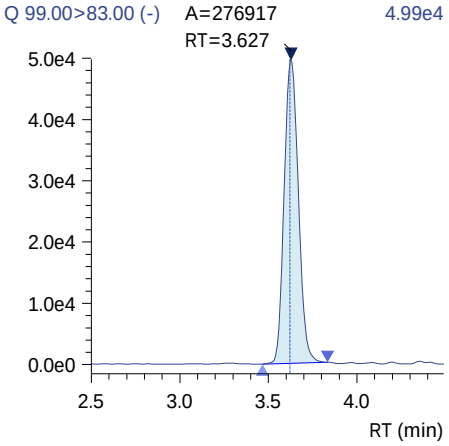
## E2300570-007x1k

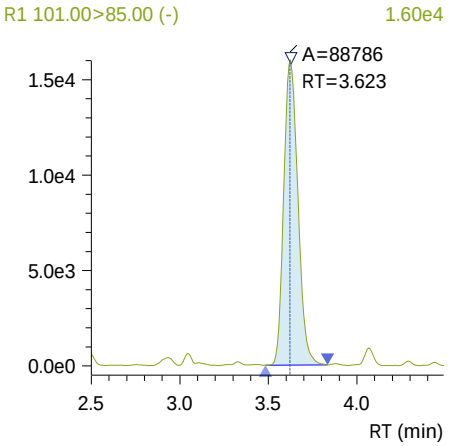
Sample ID: E2300570-007
Date Acquired: 6/26/2023 11:23:57 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-020.lcd
Vial: 33 | Inj. Volume: 10.0000uL | Tray: 3

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.627 | 276917 | 143957 | 12.1822 | ng/mL | 101.00 >85.00 | 32.06 | 22.93-42.59 |
| Sodium Perchlorate-18O4_IS | Auto | 3.623 | 143957 | 143957 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

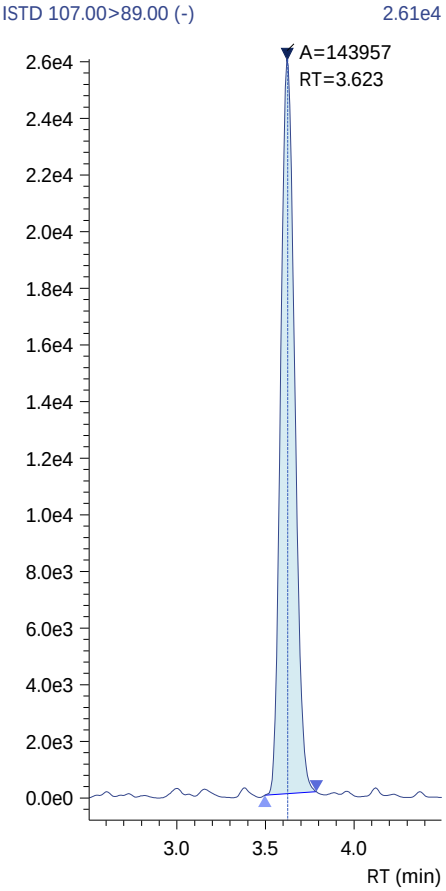
Conc 12.1822
R#1 32.06 (32.76)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 3:31:35 PM

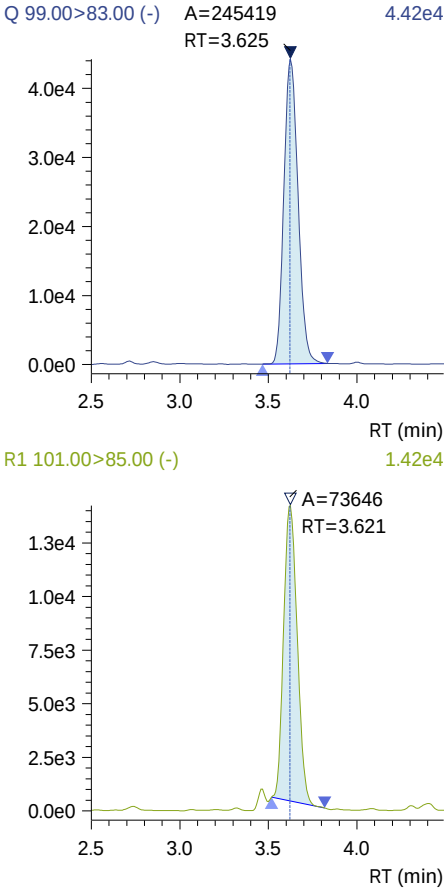
## CCV

Sample ID: CCV
Date Acquired: 6/26/2023 11:57:12 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-026.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 2

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.625 | 245419 | 153571 | 10.1207 | ng/mL | 101.00 >85.00 | 30.01 | 22.93-42.59 |
| Sodium Perchlorate-18O4_IS | Auto | 3.621 | 153571 | 153571 | 1.0000 | ng/mL | ---- | ---- | |

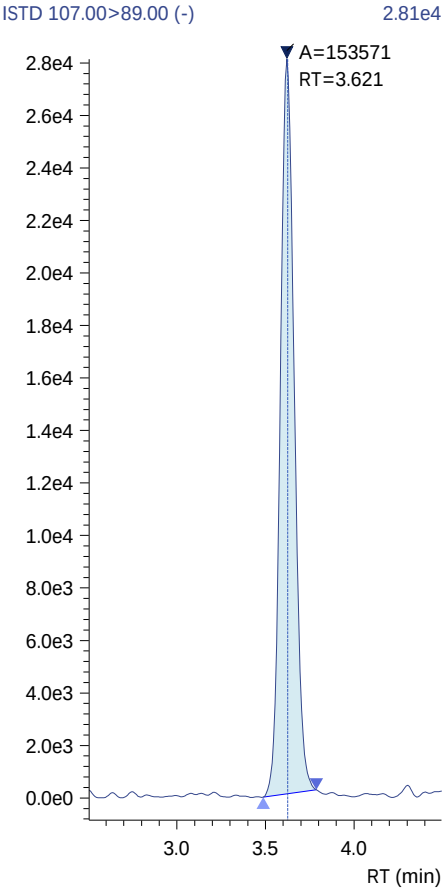
### Perchlorate

Conc 10.1207
R#1 30.01 (32.76)




### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 3:31:35 PM

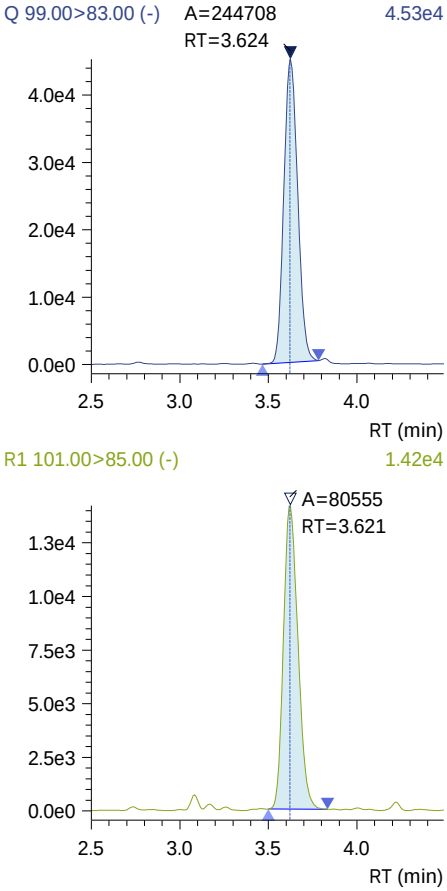
## CCV

Sample ID: CCV
Date Acquired: 6/26/2023 3:03:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-058.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 2

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.624 | 244708 | 157388 | 9.8466 | ng/mL | 101.00 >85.00 | 32.92 | 22.93-42.59 |
| Sodium Perchlorate-18O4_IS | Auto | 3.620 | 157388 | 157388 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

Conc 9.8466
R#1 32.92 (32.76)

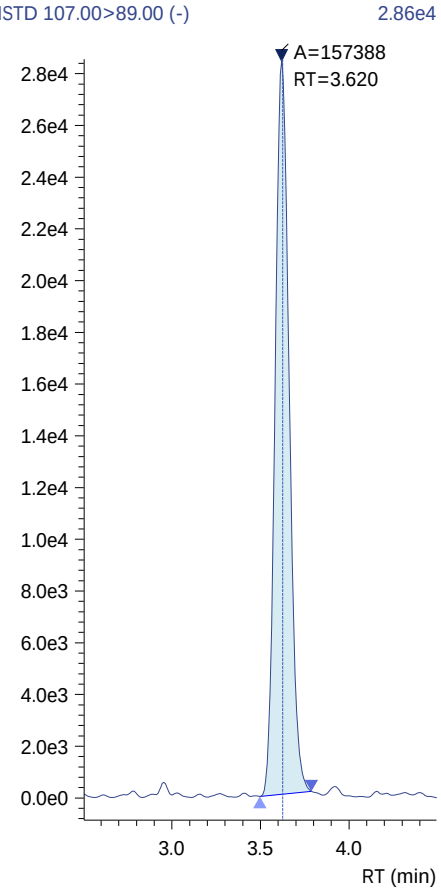






### Sodium Perchlorate-18O4_IS

Conc 1.0000



# Insight Report

Printed at 6/26/2023 3:31:35 PM

## EQ2300303-02

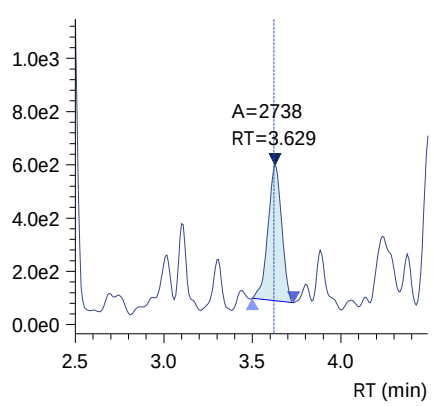
Sample ID: EQ2300303-02
Date Acquired: 6/26/2023 3:09:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-059.lcd
Vial: 25 | Inj. Volume: 10.0000uL | Tray: 3

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | MI R1 | 3.629 | 2738 | 185702 | 0.0934 | ng/mL | 101.00 >85.00 | 27.08 | 22.93-42.59 |
| Sodium Perchlorate-18O4 _IS | Auto | 3.621 | 185702 | 185702 | 1.0000 | ng/mL | ---- | ---- | |

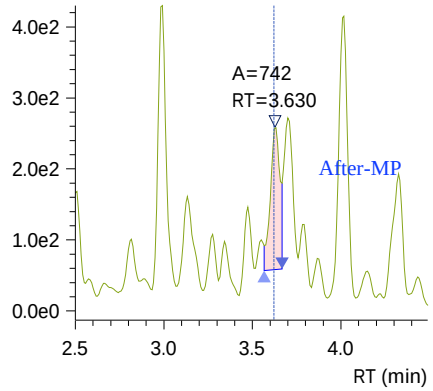
### Perchlorate

Conc 0.0934
R#1 27.08 (32.76)

Q 99.00>83.00 (-) 1.15e3



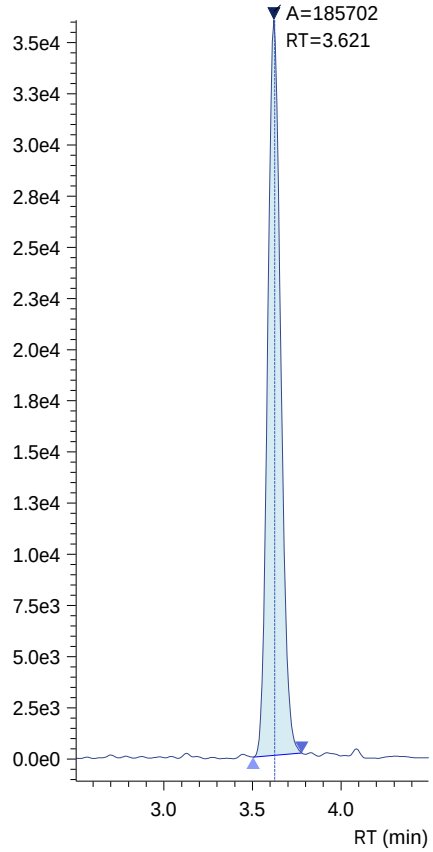

R1 101.00>85.00 (-) 4.30e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.61e4



# Insight Report

Printed at 6/26/2023 3:35:16 PM

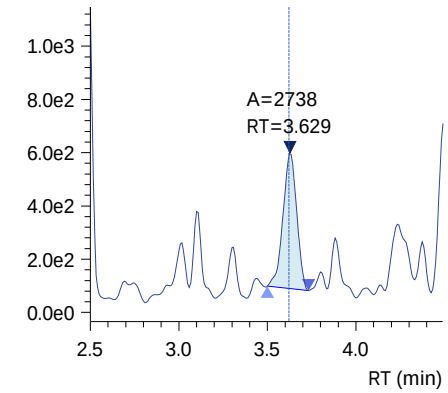
## EQ2300303-02

Sample ID: EQ2300303-02
Date Acquired: 6/26/2023 3:09:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-059.lcd
Vial: 25 | Inj. Volume: 10.0000uL | Tray: 3

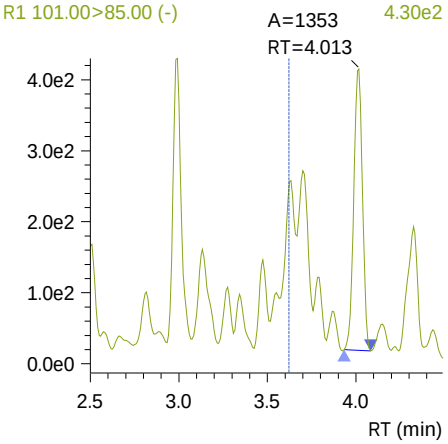
### Perchlorate

Conc 0.0925
R#1 0.00 (32.76)

Q 99.00>83.00 (-) 1.15e3



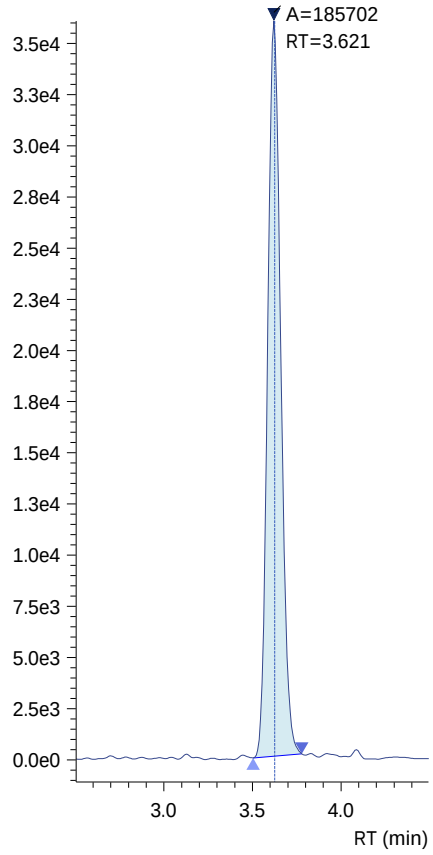

R1 101.00>85.00 (-) 4.30e2




### Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.61e4



# Insight Report

Printed at 6/26/2023 3:31:35 PM

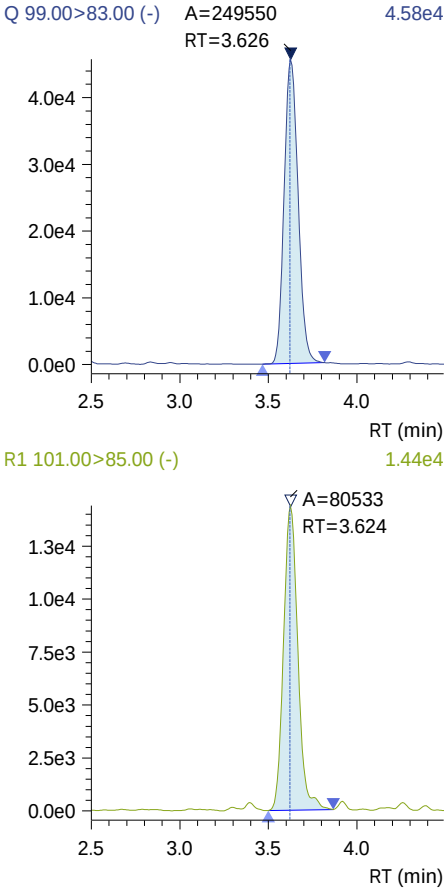
## CCV

Sample ID: CCV
Date Acquired: 6/26/2023 3:16:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-060.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 2

| Name | Mode ID | Found RT | Area | ISTD Area | Conc. | Unit | Ref 1 m/z | Ref 1 Actual Ratio | Comment 1 |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | Auto | 3.626 | 249550 | 154611 | 10.2218 | ng/mL | 101.00 >85.00 | 32.27 | 22.93-42.59 |
| Sodium Perchlorate-18O4_IS | Auto | 3.623 | 154611 | 154611 | 1.0000 | ng/mL | ---- | ---- | |

### Perchlorate

Conc 10.2218
R#1 32.27 (32.76)

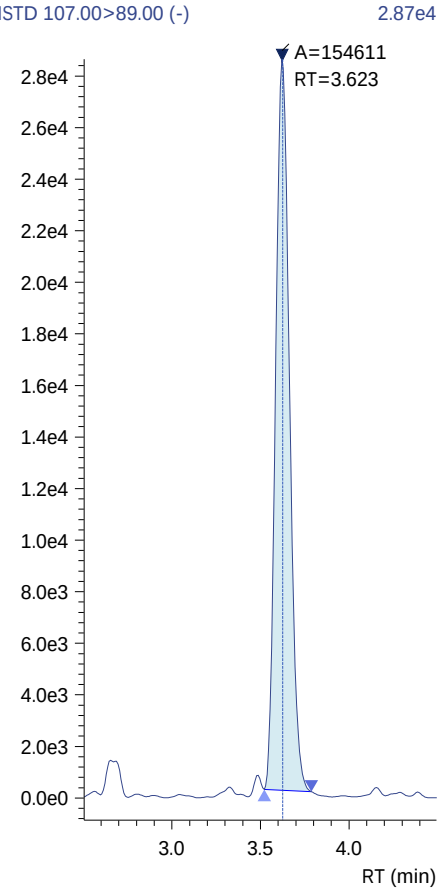






### Sodium Perchlorate-18O4_IS

Conc 1.0000



# HS23061096 LHAAP Site1824 Cover Page

ALS WO# HS23061096

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**www.alsglobal.com**

# Table of Contents

HS23061096 LHAAP Site1824 Cover Page
- CoverPage
- HS23061096 LHAAP Site1824 Final
  - CoverLetter
  - Sample Summary
  - CaseNarrative
  - AWD3_061423
  - 18CPTMW12SW_061423
  - 18CPTMW12DW_061423
  - MW7_061423
  - 130_061423
  - 130_061423_a
  - MW8_061423
  - 18WW06_061423
  - 18WW02_061423
  - TRIP BLANK
  - Weight/Volume Log
  - Dates Report
  - QC
  - Acronyms
  - Certifications
  - SampleReceiptCheckList

# Table of Contents (continued)

COC
HS23061096-E2300571 Perchlorate Final Report Level II
HS23061096-MSVOA-SW8260
Form 1 - Sample Results
Form 2 - Surrogates
Form 3A - MS/MSD
Form 3B - LCS/LCSD
Form 4 - MB Assoc
Form 5 - Tune
Form 6 - ICAL
Form 6I - ICV
Form 7 - CCV
Form 8 - ISTD
Run Log
Raw Data VOA9 437296
Raw Data VOA9 439181
Raw Data VOA9 439270
HS23061096-MSSEMI-SW8270SIM
Form 1 - Sample Results
Form 2 - Surrogates
Form 3B - LCS/LCSD
Form 4 - MB Assoc
Form 5 - Tune
Form 6 - ICAL
Form 6I - ICV
Form 7 - CCV
Prep Log
Run Log
Raw Data SV 6 439923
Raw Data SV 6 439713
HS23061096 - ME - HG_W_DODICP_W_DOD
Form 11 - ICPMS06 Internal Standard Association
Form 13 - HG04_440017 Run Log
Form 13 - ICPMS06_440069 Run Log
Form 2 - HG04_440017 CCV

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alsglobal.com

# WorkOrder: HS23061096

**LHAAP /Site18/24**

**Bhate Environmental Associates, Inc.**

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

**21-Jun-2023**

# HS23061096 LHAAP Site1824 Final

ALS WO# HS23061096

10450 Stancliff Rd. Suite 210
Houston, TX 77099
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F: +1 281 530 5887

June 28, 2023

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS23061096**

Laboratory Results for: **LHAAP /Site18/24**

Dear Marcia Olive,

ALS Environmental received 10 sample(s) on Jun 15, 2023 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: DAYNA.FISHER**
James Guin

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**Work Order:** HS23061096

## SAMPLE SUMMARY

| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
|---|---|---|---|---|---|---|
| HS23061096-01 | AWD3_061423 | Groundwater | | 14-Jun-2023 06:55 | 15-Jun-2023 09:40 | ☐ |
| HS23061096-02 | 18CPTMW12SW_061423 | Groundwater | | 14-Jun-2023 07:40 | 15-Jun-2023 09:40 | ☐ |
| HS23061096-03 | 18CPTMW12DW_061423 | Groundwater | | 14-Jun-2023 08:25 | 15-Jun-2023 09:40 | ☐ |
| HS23061096-04 | MW7_061423 | Groundwater | | 14-Jun-2023 09:10 | 15-Jun-2023 09:40 | ☐ |
| HS23061096-05 | 130_061423 | Groundwater | | 14-Jun-2023 09:55 | 15-Jun-2023 09:40 | ☐ |
| HS23061096-06 | 130_061423_a | Groundwater | | 14-Jun-2023 09:55 | 15-Jun-2023 09:40 | ☐ |
| HS23061096-07 | MW8_061423 | Groundwater | | 14-Jun-2023 10:40 | 15-Jun-2023 09:40 | ☐ |
| HS23061096-08 | 18WW06_061423 | Groundwater | | 14-Jun-2023 11:30 | 15-Jun-2023 09:40 | ☐ |
| HS23061096-09 | 18WW02_061423 | Groundwater | | 14-Jun-2023 12:15 | 15-Jun-2023 09:40 | ☐ |
| HS23061096-10 | TRIP BLANK | Water | CG-041923-816 | 14-Jun-2023 00:00 | 15-Jun-2023 09:40 | ☐ |

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**Work Order:** HS23061096

**CASE NARRATIVE**

## Work Order Comments

- The analysis for Perchlorate was subcontracted to our ALS Houston TX, High Resolution Lab. Final report attached.

## GCMS Semivolatiles by Method SW8270SIM

### Batch ID: 195363

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## GCMS Volatiles by Method SW8260

### Batch ID: R439270

**Sample ID: HS23061152-01MS**

- MS is for an unrelated sample

### Batch ID: R439181

**Sample ID: HS23060983-01MS**

- MS and MSD are for an unrelated sample

## Metals by Method SW7470A

### Batch ID: 196820

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## Metals by Method SW6020A

### Batch ID: 196608

**Sample ID: HS23060722-06MS**

- MS and MSD are for an unrelated sample

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: AWD3_061423
Collection Date: 14-Jun-2023 06:55

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-01
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | **Method:SW8260** | | | | | | | Analyst: PC |
| 1,1,1,2-Tetrachloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 1,1,1-Trichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 1,1,2,2-Tetrachloroethane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 1,1,2-Trichloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 1,1-Dichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 1,1-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 1,1-Dichloropropene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 1,2,3-Trichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 1,2,3-Trichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 1,2,4-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 1,2-Dibromo-3-chloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 1,2-Dibromoethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 1,2-Dichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| **1,2-Dichloroethane** | **2.5** | | **0.20** | **0.50** | **1.0** | **ug/L** | 1 | 17-Jun-2023 21:03 |
| 1,2-Dichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 1,3,5-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 1,3-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 1,3-Dichloropropane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 1,4-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 2,2-Dichloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 2-Butanone | 0.50 | U | 0.50 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 2-Chlorotoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 2-Hexanone | 0.50 | U | 1.0 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 4-Chlorotoluene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 4-Isopropyltoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| 4-Methyl-2-pentanone | 0.50 | U | 0.70 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| Acetone | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| Benzene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| Bromobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| Bromochloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| Bromodichloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| Bromoform | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| Bromomethane | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| Carbon disulfide | 0.50 | U | 0.60 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| **Carbon tetrachloride** | **16** | | **0.50** | **0.50** | **1.0** | **ug/L** | 1 | 17-Jun-2023 21:03 |
| Chlorobenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| Chloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| **Chloroform** | **0.95** | J | **0.20** | **0.50** | **1.0** | **ug/L** | 1 | 17-Jun-2023 21:03 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: AWD3_061423
Collection Date: 14-Jun-2023 06:55

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-01
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | **Method:SW8260** | | | | | | | Analyst: PC |
| Chloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| **cis-1,2-Dichloroethene** | **47** | | **0.20** | **0.50** | **1.0** | **ug/L** | 1 | 17-Jun-2023 21:03 |
| cis-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| Dibromochloromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| Dibromomethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| Dichlorodifluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| Ethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| Hexachlorobutadiene | 0.50 | U | 1.0 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| Isopropylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| m,p-Xylene | 1.0 | U | 0.50 | 1.0 | 2.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| Methylene chloride | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| n-Butylbenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| n-Propylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| Naphthalene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| o-Xylene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| sec-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| Styrene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| tert-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| **Tetrachloroethene** | **1.6** | | **0.30** | **0.50** | **1.0** | **ug/L** | 1 | 17-Jun-2023 21:03 |
| Toluene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| trans-1,2-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| trans-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| **Trichloroethene** | **360** | | **2.0** | **5.0** | **10** | **ug/L** | 10 | 19-Jun-2023 16:14 |
| Trichlorofluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:03 |
| **Vinyl chloride** | **0.66** | J | **0.20** | **0.50** | **1.0** | **ug/L** | 1 | 17-Jun-2023 21:03 |
| *Surr: 1,2-Dichloroethane-d4* | *117* | | | **0** | *81-118* | *%REC* | *1* | *17-Jun-2023 21:03* |
| *Surr: 1,2-Dichloroethane-d4* | *113* | | | **0** | *81-118* | *%REC* | *10* | *19-Jun-2023 16:14* |
| *Surr: 4-Bromofluorobenzene* | *95.5* | | | **0** | *85-114* | *%REC* | *1* | *17-Jun-2023 21:03* |
| *Surr: 4-Bromofluorobenzene* | *98.1* | | | **0** | *85-114* | *%REC* | *10* | *19-Jun-2023 16:14* |
| *Surr: Dibromofluoromethane* | *105* | | | **0** | *80-119* | *%REC* | *1* | *17-Jun-2023 21:03* |
| *Surr: Dibromofluoromethane* | *102* | | | **0** | *80-119* | *%REC* | *10* | *19-Jun-2023 16:14* |
| *Surr: Toluene-d8* | *108* | | | **0** | *89-112* | *%REC* | *1* | *17-Jun-2023 21:03* |
| *Surr: Toluene-d8* | *111* | | | **0** | *89-112* | *%REC* | *10* | *19-Jun-2023 16:14* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: AWD3_061423
Collection Date: 14-Jun-2023 06:55

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-01
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **METALS BY ICPMS BY SW6020A** | | **Method:SW6020A** | | | | Prep:SW3010A / 22-Jun-2023 | | Analyst: JC |
| **Aluminum** | **0.0717** | | **0.00180** | **0.00500** | **0.0100** | **mg/L** | 1 | 28-Jun-2023 17:14 |
| Antimony | 0.00125 | U | 0.000400 | 0.00125 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:14 |
| Arsenic | 0.00125 | U | 0.000400 | 0.00125 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:14 |
| **Barium** | **0.0358** | | **0.00190** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:14 |
| Beryllium | 0.000500 | U | 0.000200 | 0.000500 | 0.00200 | mg/L | 1 | 28-Jun-2023 17:14 |
| Cadmium | 0.000500 | U | 0.000200 | 0.000500 | 0.00200 | mg/L | 1 | 28-Jun-2023 17:14 |
| **Calcium** | **1.05** | | **0.0340** | **0.0500** | **0.500** | **mg/L** | 1 | 28-Jun-2023 17:14 |
| **Chromium** | **0.0716** | | **0.000400** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:14 |
| **Cobalt** | **0.000810** | J | **0.000100** | **0.000500** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:14 |
| **Copper** | **0.00134** | J | **0.00100** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:14 |
| **Iron** | **0.382** | | **0.0120** | **0.0500** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:14 |
| Lead | 0.00125 | U | 0.000600 | 0.00125 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:14 |
| **Magnesium** | **0.540** | | **0.0100** | **0.0500** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:14 |
| **Manganese** | **0.00963** | | **0.000700** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:14 |
| **Nickel** | **0.0157** | | **0.000600** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:14 |
| **Potassium** | **0.682** | | **0.0180** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:14 |
| **Selenium** | **0.00410** | J | **0.00110** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:14 |
| Silver | 0.000500 | U | 0.000200 | 0.000500 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:14 |
| **Sodium** | **26.3** | | **0.0140** | **0.0500** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:14 |
| Thallium | 0.000500 | U | 0.000200 | 0.000500 | 0.00200 | mg/L | 1 | 28-Jun-2023 17:14 |
| **Vanadium** | **0.00600** | | **0.000600** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:14 |
| **Zinc** | **0.00352** | J | **0.00200** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:14 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | | Prep:SW7470A / 27-Jun-2023 | | Analyst: JS |
| Mercury | 0.000100 | U | 0.0000300 | 0.000100 | 0.000200 | mg/L | 1 | 27-Jun-2023 20:23 |
| **SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)** | | **Method:NA** | | | | | | Analyst: KR |
| Subcontract Analysis | See Attached | | 0 | 0 | | NA | 1 | 28-Jun-2023 13:16 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: 18CPTMW12SW_061423
Collection Date: 14-Jun-2023 07:40

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-02
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | **Method:SW8260** | | | | | | | Analyst: PC |
| 1,1,1,2-Tetrachloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 1,1,1-Trichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 1,1,2,2-Tetrachloroethane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 1,1,2-Trichloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 1,1-Dichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 1,1-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 1,1-Dichloropropene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 1,2,3-Trichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 1,2,3-Trichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 1,2,4-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 1,2-Dibromo-3-chloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 1,2-Dibromoethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 1,2-Dichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 1,2-Dichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 1,2-Dichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 1,3,5-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 1,3-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 1,3-Dichloropropane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 1,4-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 2,2-Dichloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 2-Butanone | 0.50 | U | 0.50 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 2-Chlorotoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 2-Hexanone | 0.50 | U | 1.0 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 4-Chlorotoluene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 4-Isopropyltoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| 4-Methyl-2-pentanone | 0.50 | U | 0.70 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Acetone | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Benzene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Bromobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Bromochloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Bromodichloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Bromoform | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Bromomethane | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Carbon disulfide | 0.50 | U | 0.60 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Carbon tetrachloride | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Chlorobenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Chloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Chloroform | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: 18CPTMW12SW_061423
Collection Date: 14-Jun-2023 07:40

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-02
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | | **Method:SW8260** | | | | | | Analyst: PC |
| Chloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| cis-1,2-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| cis-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Dibromochloromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Dibromomethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Dichlorodifluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Ethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Hexachlorobutadiene | 0.50 | U | 1.0 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Isopropylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| m,p-Xylene | 1.0 | U | 0.50 | 1.0 | 2.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Methylene chloride | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| n-Butylbenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| n-Propylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Naphthalene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| o-Xylene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| sec-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Styrene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| tert-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Tetrachloroethene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Toluene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| trans-1,2-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| trans-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| **Trichloroethene** | **2.2** | | **0.20** | **0.50** | **1.0** | **ug/L** | 1 | 17-Jun-2023 16:56 |
| Trichlorofluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| Vinyl chloride | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:56 |
| *Surr: 1,2-Dichloroethane-d4* | *114* | | | **0** | *81-118* | *%REC* | *1* | *17-Jun-2023 16:56* |
| *Surr: 4-Bromofluorobenzene* | *95.4* | | | **0** | *85-114* | *%REC* | *1* | *17-Jun-2023 16:56* |
| *Surr: Dibromofluoromethane* | *101* | | | **0** | *80-119* | *%REC* | *1* | *17-Jun-2023 16:56* |
| *Surr: Toluene-d8* | *111* | | | **0** | *89-112* | *%REC* | *1* | *17-Jun-2023 16:56* |
| **SEMIVOLATILES SIM** | | **Method:SW8270SIM** | | | | Prep:SW3510 / 18-Jun-2023 | | Analyst: JL |
| **1,4-Dioxane** | **0.016** | | **0.010** | **0.0050** | **0.010** | **ug/L** | 1 | 26-Jun-2023 13:52 |
| *Surr: 2-Fluorobiphenyl* | *93.3* | | | **0** | *40-140* | *%REC* | *1* | *26-Jun-2023 13:52* |
| *Surr: 4-Terphenyl-d14* | *109* | | | **0** | *40-140* | *%REC* | *1* | *26-Jun-2023 13:52* |
| *Surr: Nitrobenzene-d5* | *86.0* | | | **0** | *40-140* | *%REC* | *1* | *26-Jun-2023 13:52* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: 18CPTMW12SW_061423
Collection Date: 14-Jun-2023 07:40

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-02
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **METALS BY ICPMS BY SW6020A** | | **Method:SW6020A** | | | | Prep:SW3010A / 22-Jun-2023 | | Analyst: JC |
| **Aluminum** | **0.0221** | | **0.00180** | **0.00500** | **0.0100** | **mg/L** | 1 | 28-Jun-2023 17:16 |
| Antimony | 0.00125 | U | 0.000400 | 0.00125 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:16 |
| **Arsenic** | **0.000625** | J | **0.000400** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:16 |
| **Barium** | **0.837** | | **0.00190** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:16 |
| Beryllium | 0.000500 | U | 0.000200 | 0.000500 | 0.00200 | mg/L | 1 | 28-Jun-2023 17:16 |
| Cadmium | 0.000500 | U | 0.000200 | 0.000500 | 0.00200 | mg/L | 1 | 28-Jun-2023 17:16 |
| **Calcium** | **78.0** | | **0.0340** | **0.0500** | **0.500** | **mg/L** | 1 | 28-Jun-2023 17:16 |
| **Chromium** | **0.00759** | | **0.000400** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:16 |
| **Cobalt** | **0.00156** | J | **0.000100** | **0.000500** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:16 |
| **Copper** | **0.00190** | J | **0.00100** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:16 |
| **Iron** | **1.20** | | **0.0120** | **0.0500** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:16 |
| Lead | 0.00125 | U | 0.000600 | 0.00125 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:16 |
| **Magnesium** | **40.7** | | **0.0100** | **0.0500** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:16 |
| **Manganese** | **0.131** | | **0.000700** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:16 |
| **Nickel** | **0.00172** | J | **0.000600** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:16 |
| **Potassium** | **25.1** | | **0.0180** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:16 |
| Selenium | 0.00250 | U | 0.00110 | 0.00250 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:16 |
| Silver | 0.000500 | U | 0.000200 | 0.000500 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:16 |
| **Sodium** | **251** | | **0.280** | **1.00** | **4.00** | **mg/L** | 20 | 28-Jun-2023 18:23 |
| Thallium | 0.000500 | U | 0.000200 | 0.000500 | 0.00200 | mg/L | 1 | 28-Jun-2023 17:16 |
| **Vanadium** | **0.00258** | J | **0.000600** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:16 |
| **Zinc** | **0.00554** | | **0.00200** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:16 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | | Prep:SW7470A / 27-Jun-2023 | | Analyst: JS |
| Mercury | 0.000100 | U | 0.0000300 | 0.000100 | 0.000200 | mg/L | 1 | 27-Jun-2023 20:25 |
| **SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)** | | **Method:NA** | | | | | | Analyst: KR |
| Subcontract Analysis | See Attached | | 0 | 0 | | NA | 1 | 28-Jun-2023 13:16 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: 18CPTMW12DW_061423
Collection Date: 14-Jun-2023 08:25

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-03
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | **Method:SW8260** | | | | | | | Analyst: PC |
| 1,1,1,2-Tetrachloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 1,1,1-Trichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 1,1,2,2-Tetrachloroethane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 1,1,2-Trichloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 1,1-Dichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 1,1-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 1,1-Dichloropropene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 1,2,3-Trichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 1,2,3-Trichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 1,2,4-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 1,2-Dibromo-3-chloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 1,2-Dibromoethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 1,2-Dichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 1,2-Dichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 1,2-Dichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 1,3,5-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 1,3-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 1,3-Dichloropropane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 1,4-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 2,2-Dichloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 2-Butanone | 0.50 | U | 0.50 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 2-Chlorotoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 2-Hexanone | 0.50 | U | 1.0 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 4-Chlorotoluene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 4-Isopropyltoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| 4-Methyl-2-pentanone | 0.50 | U | 0.70 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Acetone | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Benzene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Bromobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Bromochloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Bromodichloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Bromoform | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Bromomethane | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Carbon disulfide | 0.50 | U | 0.60 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Carbon tetrachloride | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Chlorobenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Chloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Chloroform | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: 18CPTMW12DW_061423
Collection Date: 14-Jun-2023 08:25

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-03
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | | **Method:SW8260** | | | | | | Analyst: PC |
| Chloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| cis-1,2-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| cis-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Dibromochloromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Dibromomethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Dichlorodifluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Ethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Hexachlorobutadiene | 0.50 | U | 1.0 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Isopropylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| m,p-Xylene | 1.0 | U | 0.50 | 1.0 | 2.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Methylene chloride | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| n-Butylbenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| n-Propylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Naphthalene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| o-Xylene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| sec-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Styrene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| tert-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Tetrachloroethene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Toluene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| trans-1,2-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| trans-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| **Trichloroethene** | **1.6** | | **0.20** | **0.50** | **1.0** | **ug/L** | 1 | 17-Jun-2023 17:19 |
| Trichlorofluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| Vinyl chloride | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:19 |
| *Surr: 1,2-Dichloroethane-d4* | *113* | | | **0** | *81-118* | *%REC* | *1* | *17-Jun-2023 17:19* |
| *Surr: 4-Bromofluorobenzene* | *95.8* | | | **0** | *85-114* | *%REC* | *1* | *17-Jun-2023 17:19* |
| *Surr: Dibromofluoromethane* | *103* | | | **0** | *80-119* | *%REC* | *1* | *17-Jun-2023 17:19* |
| *Surr: Toluene-d8* | *109* | | | **0** | *89-112* | *%REC* | *1* | *17-Jun-2023 17:19* |
| **SEMIVOLATILES SIM** | | **Method:SW8270SIM** | | | | Prep:SW3510 / 18-Jun-2023 | | Analyst: JL |
| **1,4-Dioxane** | **0.020** | | **0.010** | **0.0050** | **0.010** | **ug/L** | 1 | 26-Jun-2023 14:10 |
| *Surr: 2-Fluorobiphenyl* | *104* | | | **0** | *40-140* | *%REC* | *1* | *26-Jun-2023 14:10* |
| *Surr: 4-Terphenyl-d14* | *111* | | | **0** | *40-140* | *%REC* | *1* | *26-Jun-2023 14:10* |
| *Surr: Nitrobenzene-d5* | *89.4* | | | **0** | *40-140* | *%REC* | *1* | *26-Jun-2023 14:10* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: 18CPTMW12DW_061423
Collection Date: 14-Jun-2023 08:25

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-03
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **METALS BY ICPMS BY SW6020A** | | **Method:SW6020A** | | | | Prep:SW3010A / 22-Jun-2023 | | Analyst: JC |
| **Aluminum** | **0.0244** | | **0.00180** | **0.00500** | **0.0100** | **mg/L** | 1 | 28-Jun-2023 17:18 |
| Antimony | 0.00125 | U | 0.000400 | 0.00125 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:18 |
| **Arsenic** | **0.00211** | J | **0.000400** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:18 |
| **Barium** | **0.289** | | **0.00190** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:18 |
| Beryllium | 0.000500 | U | 0.000200 | 0.000500 | 0.00200 | mg/L | 1 | 28-Jun-2023 17:18 |
| Cadmium | 0.000500 | U | 0.000200 | 0.000500 | 0.00200 | mg/L | 1 | 28-Jun-2023 17:18 |
| **Calcium** | **27.2** | | **0.0340** | **0.0500** | **0.500** | **mg/L** | 1 | 28-Jun-2023 17:18 |
| **Chromium** | **0.0143** | | **0.000400** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:18 |
| **Cobalt** | **0.000402** | J | **0.000100** | **0.000500** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:18 |
| Copper | 0.00250 | U | 0.00100 | 0.00250 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:18 |
| **Iron** | **7.26** | | **0.0120** | **0.0500** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:18 |
| Lead | 0.00125 | U | 0.000600 | 0.00125 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:18 |
| **Magnesium** | **12.3** | | **0.0100** | **0.0500** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:18 |
| **Manganese** | **0.244** | | **0.000700** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:18 |
| **Nickel** | **0.00108** | J | **0.000600** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:18 |
| **Potassium** | **53.8** | | **0.0180** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:18 |
| Selenium | 0.00250 | U | 0.00110 | 0.00250 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:18 |
| Silver | 0.000500 | U | 0.000200 | 0.000500 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:18 |
| **Sodium** | **164** | | **0.0140** | **0.0500** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:18 |
| Thallium | 0.000500 | U | 0.000200 | 0.000500 | 0.00200 | mg/L | 1 | 28-Jun-2023 17:18 |
| **Vanadium** | **0.00284** | J | **0.000600** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:18 |
| **Zinc** | **0.00478** | J | **0.00200** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:18 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | | Prep:SW7470A / 27-Jun-2023 | | Analyst: JS |
| Mercury | 0.000100 | U | 0.0000300 | 0.000100 | 0.000200 | mg/L | 1 | 27-Jun-2023 20:27 |
| **SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)** | | **Method:NA** | | | | | | Analyst: KR |
| Subcontract Analysis | See Attached | | 0 | 0 | | NA | 1 | 28-Jun-2023 13:16 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: MW7_061423
Collection Date: 14-Jun-2023 09:10

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-04
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | **Method:SW8260** | | | | | | | Analyst: PC |
| 1,1,1,2-Tetrachloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 1,1,1-Trichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 1,1,2,2-Tetrachloroethane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 1,1,2-Trichloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 1,1-Dichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 1,1-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 1,1-Dichloropropene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 1,2,3-Trichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 1,2,3-Trichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 1,2,4-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 1,2-Dibromo-3-chloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 1,2-Dibromoethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 1,2-Dichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| **1,2-Dichloroethane** | **19** | | **0.20** | **0.50** | **1.0** | **ug/L** | 1 | 17-Jun-2023 21:48 |
| 1,2-Dichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 1,3,5-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 1,3-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 1,3-Dichloropropane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 1,4-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 2,2-Dichloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 2-Butanone | 0.50 | U | 0.50 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 2-Chlorotoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 2-Hexanone | 0.50 | U | 1.0 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 4-Chlorotoluene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 4-Isopropyltoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| 4-Methyl-2-pentanone | 0.50 | U | 0.70 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Acetone | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Benzene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Bromobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Bromochloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Bromodichloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Bromoform | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Bromomethane | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Carbon disulfide | 0.50 | U | 0.60 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Carbon tetrachloride | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Chlorobenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Chloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| **Chloroform** | **7.7** | | **0.20** | **0.50** | **1.0** | **ug/L** | 1 | 17-Jun-2023 21:48 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: MW7_061423
Collection Date: 14-Jun-2023 09:10

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-04
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | | **Method:SW8260** | | | | | | Analyst: PC |
| Chloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| **cis-1,2-Dichloroethene** | **9.5** | | **0.20** | **0.50** | **1.0** | **ug/L** | 1 | 17-Jun-2023 21:48 |
| cis-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Dibromochloromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Dibromomethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Dichlorodifluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Ethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Hexachlorobutadiene | 0.50 | U | 1.0 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Isopropylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| m,p-Xylene | 1.0 | U | 0.50 | 1.0 | 2.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Methylene chloride | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| n-Butylbenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| n-Propylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Naphthalene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| o-Xylene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| sec-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Styrene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| tert-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Tetrachloroethene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| Toluene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| trans-1,2-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| trans-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| **Trichloroethene** | **860** | | **5.0** | **12** | **25** | **ug/L** | 25 | 19-Jun-2023 16:36 |
| Trichlorofluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 21:48 |
| **Vinyl chloride** | **0.41** | J | **0.20** | **0.50** | **1.0** | **ug/L** | 1 | 17-Jun-2023 21:48 |
| *Surr: 1,2-Dichloroethane-d4* | *115* | | | **0** | *81-118* | *%REC* | *1* | *17-Jun-2023 21:48* |
| *Surr: 1,2-Dichloroethane-d4* | *113* | | | **0** | *81-118* | *%REC* | *25* | *19-Jun-2023 16:36* |
| *Surr: 4-Bromofluorobenzene* | *95.4* | | | **0** | *85-114* | *%REC* | *1* | *17-Jun-2023 21:48* |
| *Surr: 4-Bromofluorobenzene* | *97.7* | | | **0** | *85-114* | *%REC* | *25* | *19-Jun-2023 16:36* |
| *Surr: Dibromofluoromethane* | *104* | | | **0** | *80-119* | *%REC* | *1* | *17-Jun-2023 21:48* |
| *Surr: Dibromofluoromethane* | *102* | | | **0** | *80-119* | *%REC* | *25* | *19-Jun-2023 16:36* |
| *Surr: Toluene-d8* | *109* | | | **0** | *89-112* | *%REC* | *1* | *17-Jun-2023 21:48* |
| *Surr: Toluene-d8* | *108* | | | **0** | *89-112* | *%REC* | *25* | *19-Jun-2023 16:36* |
| **SEMIVOLATILES SIM** | | **Method:SW8270SIM** | | | | Prep:SW3510 / 18-Jun-2023 | | Analyst: JL |
| **1,4-Dioxane** | **0.86** | | **0.10** | **0.050** | **0.10** | **ug/L** | 10 | 26-Jun-2023 15:40 |
| *Surr: 2-Fluorobiphenyl* | *112* | | | **0** | *40-140* | *%REC* | *10* | *26-Jun-2023 15:40* |
| *Surr: 4-Terphenyl-d14* | *110* | | | **0** | *40-140* | *%REC* | *10* | *26-Jun-2023 15:40* |
| *Surr: Nitrobenzene-d5* | *100.0* | | | **0** | *40-140* | *%REC* | *10* | *26-Jun-2023 15:40* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US**

Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.

**ANALYTICAL REPORT**

Project: LHAAP /Site18/24

WorkOrder:HS23061096

Sample ID: MW7_061423

Lab ID:HS23061096-04

Collection Date: 14-Jun-2023 09:10

Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)** | | **Method:NA** | | | | | | Analyst: KR |
| Subcontract Analysis | See Attached | | 0 | 0 | | NA | 1 | 28-Jun-2023 13:16 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: 130_061423
Collection Date: 14-Jun-2023 09:55

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-05
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | **Method:SW8260** | | | | | | | Analyst: PC |
| 1,1,1,2-Tetrachloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 1,1,1-Trichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 1,1,2,2-Tetrachloroethane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 1,1,2-Trichloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 1,1-Dichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 1,1-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 1,1-Dichloropropene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 1,2,3-Trichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 1,2,3-Trichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 1,2,4-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 1,2-Dibromo-3-chloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 1,2-Dibromoethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 1,2-Dichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 1,2-Dichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 1,2-Dichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 1,3,5-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 1,3-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 1,3-Dichloropropane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 1,4-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 2,2-Dichloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 2-Butanone | 0.50 | U | 0.50 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 2-Chlorotoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 2-Hexanone | 0.50 | U | 1.0 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 4-Chlorotoluene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 4-Isopropyltoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| 4-Methyl-2-pentanone | 0.50 | U | 0.70 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Acetone | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Benzene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Bromobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Bromochloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Bromodichloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Bromoform | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Bromomethane | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Carbon disulfide | 0.50 | U | 0.60 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Carbon tetrachloride | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Chlorobenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Chloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Chloroform | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: 130_061423
Collection Date: 14-Jun-2023 09:55

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-05
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | **Method:SW8260** | | | | | | | Analyst: PC |
| Chloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| cis-1,2-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| cis-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Dibromochloromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Dibromomethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Dichlorodifluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Ethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Hexachlorobutadiene | 0.50 | U | 1.0 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Isopropylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| m,p-Xylene | 1.0 | U | 0.50 | 1.0 | 2.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Methylene chloride | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| n-Butylbenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| n-Propylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Naphthalene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| o-Xylene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| sec-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Styrene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| tert-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Tetrachloroethene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Toluene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| trans-1,2-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| trans-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| **Trichloroethene** | **1.1** | | **0.20** | **0.50** | **1.0** | **ug/L** | 1 | 17-Jun-2023 17:41 |
| Trichlorofluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| Vinyl chloride | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 17:41 |
| *Surr: 1,2-Dichloroethane-d4* | *116* | | | **0** | *81-118* | *%REC* | *1* | *17-Jun-2023 17:41* |
| *Surr: 4-Bromofluorobenzene* | *95.2* | | | **0** | *85-114* | *%REC* | *1* | *17-Jun-2023 17:41* |
| *Surr: Dibromofluoromethane* | *104* | | | **0** | *80-119* | *%REC* | *1* | *17-Jun-2023 17:41* |
| *Surr: Toluene-d8* | *108* | | | **0** | *89-112* | *%REC* | *1* | *17-Jun-2023 17:41* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: 130_061423
Collection Date: 14-Jun-2023 09:55

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-05
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **METALS BY ICPMS BY SW6020A** | | **Method:SW6020A** | | | | Prep:SW3010A / 22-Jun-2023 | | Analyst: JC |
| **Aluminum** | **0.159** | | **0.00180** | **0.00500** | **0.0100** | **mg/L** | 1 | 28-Jun-2023 17:46 |
| Antimony | 0.00125 | U | 0.000400 | 0.00125 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:46 |
| **Arsenic** | **0.00238** | J | **0.000400** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:46 |
| **Barium** | **0.162** | | **0.00190** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:46 |
| Beryllium | 0.000500 | U | 0.000200 | 0.000500 | 0.00200 | mg/L | 1 | 28-Jun-2023 17:46 |
| Cadmium | 0.000500 | U | 0.000200 | 0.000500 | 0.00200 | mg/L | 1 | 28-Jun-2023 17:46 |
| **Calcium** | **36.2** | | **0.0340** | **0.0500** | **0.500** | **mg/L** | 1 | 28-Jun-2023 17:46 |
| **Chromium** | **0.00210** | J | **0.000400** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:46 |
| **Cobalt** | **0.0196** | | **0.000100** | **0.000500** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:46 |
| **Copper** | **0.00355** | J | **0.00100** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:46 |
| **Iron** | **3.18** | | **0.0120** | **0.0500** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:46 |
| Lead | 0.00125 | U | 0.000600 | 0.00125 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:46 |
| **Magnesium** | **24.1** | | **0.0100** | **0.0500** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:46 |
| **Manganese** | **1.03** | | **0.000700** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:46 |
| **Nickel** | **0.00795** | | **0.000600** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:46 |
| **Potassium** | **0.810** | | **0.0180** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:46 |
| Selenium | 0.00250 | U | 0.00110 | 0.00250 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:46 |
| Silver | 0.000500 | U | 0.000200 | 0.000500 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:46 |
| **Sodium** | **518** | | **0.280** | **1.00** | **4.00** | **mg/L** | 20 | 28-Jun-2023 18:25 |
| **Thallium** | **0.000798** | J | **0.000200** | **0.000500** | **0.00200** | **mg/L** | 1 | 28-Jun-2023 17:46 |
| **Vanadium** | **0.000729** | J | **0.000600** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:46 |
| **Zinc** | **0.0102** | | **0.00200** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:46 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | | Prep:SW7470A / 27-Jun-2023 | | Analyst: JS |
| Mercury | 0.000100 | U | 0.0000300 | 0.000100 | 0.000200 | mg/L | 1 | 27-Jun-2023 20:28 |
| **SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)** | | **Method:NA** | | | | | | Analyst: KR |
| Subcontract Analysis | See Attached | | 0 | 0 | | NA | 1 | 28-Jun-2023 13:16 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: 130_061423_a
Collection Date: 14-Jun-2023 09:55

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-06
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | **Method:SW8260** | | | | | | | Analyst: PC |
| 1,1,1,2-Tetrachloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 1,1,1-Trichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 1,1,2,2-Tetrachloroethane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 1,1,2-Trichloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 1,1-Dichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 1,1-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 1,1-Dichloropropene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 1,2,3-Trichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 1,2,3-Trichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 1,2,4-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 1,2-Dibromo-3-chloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 1,2-Dibromoethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 1,2-Dichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 1,2-Dichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 1,2-Dichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 1,3,5-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 1,3-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 1,3-Dichloropropane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 1,4-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 2,2-Dichloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 2-Butanone | 0.50 | U | 0.50 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 2-Chlorotoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 2-Hexanone | 0.50 | U | 1.0 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 4-Chlorotoluene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 4-Isopropyltoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| 4-Methyl-2-pentanone | 0.50 | U | 0.70 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Acetone | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Benzene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Bromobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Bromochloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Bromodichloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Bromoform | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Bromomethane | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Carbon disulfide | 0.50 | U | 0.60 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Carbon tetrachloride | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Chlorobenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Chloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Chloroform | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: 130_061423_a
Collection Date: 14-Jun-2023 09:55

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-06
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | **Method:SW8260** | | | | | | | Analyst: PC |
| Chloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| cis-1,2-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| cis-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Dibromochloromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Dibromomethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Dichlorodifluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Ethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Hexachlorobutadiene | 0.50 | U | 1.0 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Isopropylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| m,p-Xylene | 1.0 | U | 0.50 | 1.0 | 2.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Methylene chloride | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| n-Butylbenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| n-Propylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Naphthalene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| o-Xylene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| sec-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Styrene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| tert-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Tetrachloroethene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Toluene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| trans-1,2-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| trans-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| **Trichloroethene** | **1.1** | | **0.20** | **0.50** | **1.0** | **ug/L** | 1 | 17-Jun-2023 18:03 |
| Trichlorofluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| Vinyl chloride | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:03 |
| *Surr: 1,2-Dichloroethane-d4* | *117* | | | **0** | *81-118* | *%REC* | *1* | *17-Jun-2023 18:03* |
| *Surr: 4-Bromofluorobenzene* | *98.0* | | | **0** | *85-114* | *%REC* | *1* | *17-Jun-2023 18:03* |
| *Surr: Dibromofluoromethane* | *103* | | | **0** | *80-119* | *%REC* | *1* | *17-Jun-2023 18:03* |
| *Surr: Toluene-d8* | *110* | | | **0** | *89-112* | *%REC* | *1* | *17-Jun-2023 18:03* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: 130_061423_a
Collection Date: 14-Jun-2023 09:55

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-06
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **METALS BY ICPMS BY SW6020A** | | **Method:SW6020A** | | | | Prep:SW3010A / 22-Jun-2023 | | Analyst: JC |
| **Aluminum** | **0.544** | | **0.00180** | **0.00500** | **0.0100** | **mg/L** | 1 | 28-Jun-2023 17:48 |
| Antimony | 0.00125 | U | 0.000400 | 0.00125 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:48 |
| **Arsenic** | **0.00311** | J | **0.000400** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:48 |
| **Barium** | **0.193** | | **0.00190** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:48 |
| Beryllium | 0.000500 | U | 0.000200 | 0.000500 | 0.00200 | mg/L | 1 | 28-Jun-2023 17:48 |
| **Cadmium** | **0.000213** | J | **0.000200** | **0.000500** | **0.00200** | **mg/L** | 1 | 28-Jun-2023 17:48 |
| **Calcium** | **44.0** | | **0.0340** | **0.0500** | **0.500** | **mg/L** | 1 | 28-Jun-2023 17:48 |
| **Chromium** | **0.00254** | J | **0.000400** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:48 |
| **Cobalt** | **0.0234** | | **0.000100** | **0.000500** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:48 |
| **Copper** | **0.00143** | J | **0.00100** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:48 |
| **Iron** | **3.94** | | **0.0120** | **0.0500** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:48 |
| **Lead** | **0.000749** | J | **0.000600** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:48 |
| **Magnesium** | **28.9** | | **0.0100** | **0.0500** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:48 |
| **Manganese** | **1.23** | | **0.000700** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:48 |
| **Nickel** | **0.00909** | | **0.000600** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:48 |
| **Potassium** | **0.976** | | **0.0180** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:48 |
| Selenium | 0.00250 | U | 0.00110 | 0.00250 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:48 |
| Silver | 0.000500 | U | 0.000200 | 0.000500 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:48 |
| **Sodium** | **551** | | **0.280** | **1.00** | **4.00** | **mg/L** | 20 | 28-Jun-2023 18:27 |
| Thallium | 0.000500 | U | 0.000200 | 0.000500 | 0.00200 | mg/L | 1 | 28-Jun-2023 17:48 |
| **Vanadium** | **0.00189** | J | **0.000600** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:48 |
| **Zinc** | **0.00950** | | **0.00200** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:48 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | | Prep:SW7470A / 27-Jun-2023 | | Analyst: JS |
| Mercury | 0.000100 | U | 0.0000300 | 0.000100 | 0.000200 | mg/L | 1 | 27-Jun-2023 20:30 |
| **SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)** | | **Method:NA** | | | | | | Analyst: KR |
| Subcontract Analysis | See Attached | | 0 | 0 | | NA | 1 | 28-Jun-2023 13:16 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: MW8_061423
Collection Date: 14-Jun-2023 10:40

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-07
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | | **Method:SW8260** | | | | | | Analyst: PC |
| 1,1,1,2-Tetrachloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 1,1,1-Trichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 1,1,2,2-Tetrachloroethane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 1,1,2-Trichloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 1,1-Dichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 1,1-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 1,1-Dichloropropene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 1,2,3-Trichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 1,2,3-Trichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 1,2,4-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 1,2-Dibromo-3-chloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 1,2-Dibromoethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 1,2-Dichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| **1,2-Dichloroethane** | **5.9** | | **0.20** | **0.50** | **1.0** | **ug/L** | 1 | 17-Jun-2023 20:18 |
| 1,2-Dichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 1,3,5-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 1,3-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 1,3-Dichloropropane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 1,4-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 2,2-Dichloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 2-Butanone | 0.50 | U | 0.50 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 2-Chlorotoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 2-Hexanone | 0.50 | U | 1.0 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 4-Chlorotoluene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 4-Isopropyltoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| 4-Methyl-2-pentanone | 0.50 | U | 0.70 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Acetone | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| **Benzene** | **0.87** | J | **0.20** | **0.50** | **1.0** | **ug/L** | 1 | 17-Jun-2023 20:18 |
| Bromobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Bromochloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Bromodichloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Bromoform | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Bromomethane | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Carbon disulfide | 0.50 | U | 0.60 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Carbon tetrachloride | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Chlorobenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Chloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Chloroform | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: MW8_061423
Collection Date: 14-Jun-2023 10:40

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-07
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | | **Method:SW8260** | | | | | | Analyst: PC |
| Chloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| **cis-1,2-Dichloroethene** | **14** | | **0.20** | **0.50** | **1.0** | **ug/L** | 1 | 17-Jun-2023 20:18 |
| cis-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Dibromochloromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Dibromomethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Dichlorodifluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Ethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Hexachlorobutadiene | 0.50 | U | 1.0 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Isopropylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| m,p-Xylene | 1.0 | U | 0.50 | 1.0 | 2.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Methylene chloride | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| n-Butylbenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| n-Propylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Naphthalene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| o-Xylene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| sec-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Styrene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| tert-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Tetrachloroethene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Toluene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| trans-1,2-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| trans-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| **Trichloroethene** | **360** | | **1.0** | **2.5** | **5.0** | **ug/L** | 5 | 19-Jun-2023 16:58 |
| Trichlorofluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| Vinyl chloride | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 20:18 |
| *Surr: 1,2-Dichloroethane-d4* | *113* | | | **0** | *81-118* | *%REC* | *1* | *17-Jun-2023 20:18* |
| *Surr: 1,2-Dichloroethane-d4* | *114* | | | **0** | *81-118* | *%REC* | *5* | *19-Jun-2023 16:58* |
| *Surr: 4-Bromofluorobenzene* | *93.3* | | | **0** | *85-114* | *%REC* | *1* | *17-Jun-2023 20:18* |
| *Surr: 4-Bromofluorobenzene* | *93.8* | | | **0** | *85-114* | *%REC* | *5* | *19-Jun-2023 16:58* |
| *Surr: Dibromofluoromethane* | *104* | | | **0** | *80-119* | *%REC* | *1* | *17-Jun-2023 20:18* |
| *Surr: Dibromofluoromethane* | *101* | | | **0** | *80-119* | *%REC* | *5* | *19-Jun-2023 16:58* |
| *Surr: Toluene-d8* | *110* | | | **0** | *89-112* | *%REC* | *1* | *17-Jun-2023 20:18* |
| *Surr: Toluene-d8* | *111* | | | **0** | *89-112* | *%REC* | *5* | *19-Jun-2023 16:58* |
| **SEMIVOLATILES SIM** | | **Method:SW8270SIM** | | | | Prep:SW3510 / 18-Jun-2023 | | Analyst: JL |
| **1,4-Dioxane** | **0.34** | | **0.010** | **0.0050** | **0.010** | **ug/L** | 1 | 26-Jun-2023 14:46 |
| *Surr: 2-Fluorobiphenyl* | *112* | | | **0** | *40-140* | *%REC* | *1* | *26-Jun-2023 14:46* |
| *Surr: 4-Terphenyl-d14* | *111* | | | **0** | *40-140* | *%REC* | *1* | *26-Jun-2023 14:46* |
| *Surr: Nitrobenzene-d5* | *91.7* | | | **0** | *40-140* | *%REC* | *1* | *26-Jun-2023 14:46* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US**

Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.

**ANALYTICAL REPORT**

Project: LHAAP /Site18/24

WorkOrder:HS23061096

Sample ID: MW8_061423

Lab ID:HS23061096-07

Collection Date: 14-Jun-2023 10:40

Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)** | | **Method:NA** | | | | | | Analyst: KR |
| Subcontract Analysis | See Attached | | 0 | 0 | | NA | 1 | 28-Jun-2023 13:16 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: 18WW06_061423
Collection Date: 14-Jun-2023 11:30

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-08
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | **Method:SW8260** | | | | | | | Analyst: PC |
| 1,1,1,2-Tetrachloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 1,1,1-Trichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 1,1,2,2-Tetrachloroethane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 1,1,2-Trichloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 1,1-Dichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 1,1-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 1,1-Dichloropropene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 1,2,3-Trichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 1,2,3-Trichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 1,2,4-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 1,2-Dibromo-3-chloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 1,2-Dibromoethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 1,2-Dichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 1,2-Dichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 1,2-Dichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 1,3,5-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 1,3-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 1,3-Dichloropropane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 1,4-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 2,2-Dichloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 2-Butanone | 0.50 | U | 0.50 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 2-Chlorotoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 2-Hexanone | 0.50 | U | 1.0 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 4-Chlorotoluene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 4-Isopropyltoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| 4-Methyl-2-pentanone | 0.50 | U | 0.70 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Acetone | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Benzene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Bromobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Bromochloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Bromodichloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Bromoform | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Bromomethane | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Carbon disulfide | 0.50 | U | 0.60 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Carbon tetrachloride | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Chlorobenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Chloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Chloroform | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: 18WW06_061423
Collection Date: 14-Jun-2023 11:30

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-08
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | | **Method:SW8260** | | | | | | Analyst: PC |
| Chloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| cis-1,2-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| cis-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Dibromochloromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Dibromomethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Dichlorodifluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Ethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Hexachlorobutadiene | 0.50 | U | 1.0 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Isopropylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| m,p-Xylene | 1.0 | U | 0.50 | 1.0 | 2.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Methylene chloride | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| n-Butylbenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| n-Propylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Naphthalene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| o-Xylene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| sec-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Styrene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| tert-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Tetrachloroethene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Toluene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| trans-1,2-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| trans-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Trichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Trichlorofluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| Vinyl chloride | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:26 |
| *Surr: 1,2-Dichloroethane-d4* | *114* | | | **0** | *81-118* | *%REC* | *1* | *17-Jun-2023 18:26* |
| *Surr: 4-Bromofluorobenzene* | *94.5* | | | **0** | *85-114* | *%REC* | *1* | *17-Jun-2023 18:26* |
| *Surr: Dibromofluoromethane* | *103* | | | **0** | *80-119* | *%REC* | *1* | *17-Jun-2023 18:26* |
| *Surr: Toluene-d8* | *111* | | | **0** | *89-112* | *%REC* | *1* | *17-Jun-2023 18:26* |
| **SEMIVOLATILES SIM** | | **Method:SW8270SIM** | | | | Prep:SW3510 / 18-Jun-2023 | | Analyst: JL |
| **1,4-Dioxane** | **0.038** | | **0.010** | **0.0050** | **0.010** | **ug/L** | 1 | 26-Jun-2023 15:04 |
| *Surr: 2-Fluorobiphenyl* | *109* | | | **0** | *40-140* | *%REC* | *1* | *26-Jun-2023 15:04* |
| *Surr: 4-Terphenyl-d14* | *102* | | | **0** | *40-140* | *%REC* | *1* | *26-Jun-2023 15:04* |
| *Surr: Nitrobenzene-d5* | *89.8* | | | **0** | *40-140* | *%REC* | *1* | *26-Jun-2023 15:04* |
| **SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)** | | **Method:NA** | | | | | | Analyst: KR |
| Subcontract Analysis | See Attached | | 0 | 0 | | NA | 1 | 28-Jun-2023 13:16 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: 18WW02_061423
Collection Date: 14-Jun-2023 12:15

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-09
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | **Method:SW8260** | | | | | | | Analyst: PC |
| 1,1,1,2-Tetrachloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 1,1,1-Trichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 1,1,2,2-Tetrachloroethane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 1,1,2-Trichloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 1,1-Dichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 1,1-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 1,1-Dichloropropene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 1,2,3-Trichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 1,2,3-Trichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 1,2,4-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 1,2-Dibromo-3-chloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 1,2-Dibromoethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 1,2-Dichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 1,2-Dichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 1,2-Dichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 1,3,5-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 1,3-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 1,3-Dichloropropane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 1,4-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 2,2-Dichloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 2-Butanone | 0.50 | U | 0.50 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 2-Chlorotoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 2-Hexanone | 0.50 | U | 1.0 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 4-Chlorotoluene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 4-Isopropyltoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| 4-Methyl-2-pentanone | 0.50 | U | 0.70 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Acetone | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Benzene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Bromobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Bromochloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Bromodichloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Bromoform | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Bromomethane | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Carbon disulfide | 0.50 | U | 0.60 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Carbon tetrachloride | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Chlorobenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Chloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Chloroform | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: 18WW02_061423
Collection Date: 14-Jun-2023 12:15

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-09
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | | **Method:SW8260** | | | | | | Analyst: PC |
| Chloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| cis-1,2-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| cis-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Dibromochloromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Dibromomethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Dichlorodifluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Ethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Hexachlorobutadiene | 0.50 | U | 1.0 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Isopropylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| m,p-Xylene | 1.0 | U | 0.50 | 1.0 | 2.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Methylene chloride | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| n-Butylbenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| n-Propylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Naphthalene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| o-Xylene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| sec-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Styrene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| tert-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Tetrachloroethene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Toluene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| trans-1,2-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| trans-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Trichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Trichlorofluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| Vinyl chloride | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 18:48 |
| *Surr: 1,2-Dichloroethane-d4* | *116* | | | **0** | *81-118* | *%REC* | *1* | *17-Jun-2023 18:48* |
| *Surr: 4-Bromofluorobenzene* | *97.6* | | | **0** | *85-114* | *%REC* | *1* | *17-Jun-2023 18:48* |
| *Surr: Dibromofluoromethane* | *105* | | | **0** | *80-119* | *%REC* | *1* | *17-Jun-2023 18:48* |
| *Surr: Toluene-d8* | *108* | | | **0** | *89-112* | *%REC* | *1* | *17-Jun-2023 18:48* |
| **SEMIVOLATILES SIM** | | **Method:SW8270SIM** | | | | Prep:SW3510 / 18-Jun-2023 | | Analyst: JL |
| 1,4-Dioxane | 0.0050 | U | 0.010 | 0.0050 | 0.010 | ug/L | 1 | 26-Jun-2023 15:22 |
| *Surr: 2-Fluorobiphenyl* | *108* | | | **0** | *40-140* | *%REC* | *1* | *26-Jun-2023 15:22* |
| *Surr: 4-Terphenyl-d14* | *106* | | | **0** | *40-140* | *%REC* | *1* | *26-Jun-2023 15:22* |
| *Surr: Nitrobenzene-d5* | *88.6* | | | **0** | *40-140* | *%REC* | *1* | *26-Jun-2023 15:22* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: 18WW02_061423
Collection Date: 14-Jun-2023 12:15

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-09
Matrix:Groundwater

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **METALS BY ICPMS BY SW6020A** | | **Method:SW6020A** | | | | Prep:SW3010A / 22-Jun-2023 | | Analyst: JC |
| **Aluminum** | **0.0775** | | **0.00180** | **0.00500** | **0.0100** | **mg/L** | 1 | 28-Jun-2023 17:49 |
| Antimony | 0.00125 | U | 0.000400 | 0.00125 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:49 |
| **Arsenic** | **0.000493** | J | **0.000400** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:49 |
| **Barium** | **0.0409** | | **0.00190** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:49 |
| Beryllium | 0.000500 | U | 0.000200 | 0.000500 | 0.00200 | mg/L | 1 | 28-Jun-2023 17:49 |
| Cadmium | 0.000500 | U | 0.000200 | 0.000500 | 0.00200 | mg/L | 1 | 28-Jun-2023 17:49 |
| **Calcium** | **6.97** | | **0.0340** | **0.0500** | **0.500** | **mg/L** | 1 | 28-Jun-2023 17:49 |
| **Chromium** | **0.0132** | | **0.000400** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:49 |
| **Cobalt** | **0.000176** | J | **0.000100** | **0.000500** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:49 |
| **Copper** | **0.00150** | J | **0.00100** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:49 |
| **Iron** | **0.561** | | **0.0120** | **0.0500** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:49 |
| **Lead** | **0.00124** | J | **0.000600** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:49 |
| **Magnesium** | **1.34** | | **0.0100** | **0.0500** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:49 |
| **Manganese** | **0.0730** | | **0.000700** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:49 |
| **Nickel** | **0.0127** | | **0.000600** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:49 |
| **Potassium** | **1.85** | | **0.0180** | **1.00** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:49 |
| Selenium | 0.00250 | U | 0.00110 | 0.00250 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:49 |
| Silver | 0.000500 | U | 0.000200 | 0.000500 | 0.00500 | mg/L | 1 | 28-Jun-2023 17:49 |
| **Sodium** | **34.0** | | **0.0140** | **0.0500** | **0.200** | **mg/L** | 1 | 28-Jun-2023 17:49 |
| Thallium | 0.000500 | U | 0.000200 | 0.000500 | 0.00200 | mg/L | 1 | 28-Jun-2023 17:49 |
| **Vanadium** | **0.00324** | J | **0.000600** | **0.00125** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:49 |
| **Zinc** | **0.00498** | J | **0.00200** | **0.00250** | **0.00500** | **mg/L** | 1 | 28-Jun-2023 17:49 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | | Prep:SW7470A / 27-Jun-2023 | | Analyst: JS |
| Mercury | 0.000100 | U | 0.0000300 | 0.000100 | 0.000200 | mg/L | 1 | 27-Jun-2023 20:32 |
| **SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)** | | **Method:NA** | | | | | | Analyst: KR |
| Subcontract Analysis | See Attached | | 0 | 0 | | NA | 1 | 28-Jun-2023 13:16 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: TRIP BLANK
Collection Date: 14-Jun-2023 00:00

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-10
Matrix:Water

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | **Method:SW8260** | | | | | | | Analyst: PC |
| 1,1,1,2-Tetrachloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 1,1,1-Trichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 1,1,2,2-Tetrachloroethane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 1,1,2-Trichloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 1,1-Dichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 1,1-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 1,1-Dichloropropene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 1,2,3-Trichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 1,2,3-Trichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 1,2,4-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 1,2-Dibromo-3-chloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 1,2-Dibromoethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 1,2-Dichlorobenzene | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 1,2-Dichloroethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 1,2-Dichloropropane | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 1,3,5-Trimethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 1,3-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 1,3-Dichloropropane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 1,4-Dichlorobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 2,2-Dichloropropane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 2-Butanone | 0.50 | U | 0.50 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 2-Chlorotoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 2-Hexanone | 0.50 | U | 1.0 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 4-Chlorotoluene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 4-Isopropyltoluene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| 4-Methyl-2-pentanone | 0.50 | U | 0.70 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Acetone | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Benzene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Bromobenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Bromochloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Bromodichloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Bromoform | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Bromomethane | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Carbon disulfide | 0.50 | U | 0.60 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Carbon tetrachloride | 0.50 | U | 0.50 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Chlorobenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Chloroethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Chloroform | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US** Date: 28-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP /Site18/24
Sample ID: TRIP BLANK
Collection Date: 14-Jun-2023 00:00

**ANALYTICAL REPORT**
WorkOrder:HS23061096
Lab ID:HS23061096-10
Matrix:Water

| ANALYSES | RESULT | QUAL | DL | LOD | LOQ | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES ORGANICS BY METHOD 8260C** | **Method:SW8260** | | | | | | | Analyst: PC |
| Chloromethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| cis-1,2-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| cis-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Dibromochloromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Dibromomethane | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Dichlorodifluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Ethylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Hexachlorobutadiene | 0.50 | U | 1.0 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Isopropylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| m,p-Xylene | 1.0 | U | 0.50 | 1.0 | 2.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Methylene chloride | 0.50 | U | 0.40 | 0.50 | 2.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| n-Butylbenzene | 0.50 | U | 0.40 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| n-Propylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Naphthalene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| o-Xylene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| sec-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Styrene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| tert-Butylbenzene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Tetrachloroethene | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Toluene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| trans-1,2-Dichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| trans-1,3-Dichloropropene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Trichloroethene | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Trichlorofluoromethane | 0.50 | U | 0.30 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| Vinyl chloride | 0.50 | U | 0.20 | 0.50 | 1.0 | ug/L | 1 | 17-Jun-2023 16:34 |
| *Surr: 1,2-Dichloroethane-d4* | *116* | | | **0** | *81-118* | *%REC* | *1* | *17-Jun-2023 16:34* |
| *Surr: 4-Bromofluorobenzene* | *95.4* | | | **0** | *85-114* | *%REC* | *1* | *17-Jun-2023 16:34* |
| *Surr: Dibromofluoromethane* | *104* | | | **0** | *80-119* | *%REC* | *1* | *17-Jun-2023 16:34* |
| *Surr: Toluene-d8* | *110* | | | **0** | *89-112* | *%REC* | *1* | *17-Jun-2023 16:34* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Houston, US**

Date: 28-Jun-23

**Weight / Prep Log**

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**Batch ID:** 195363 **Start Date:** 18 Jun 2023 09:53 **End Date:** 18 Jun 2023 09:53
**Method:** SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS23061096-02 | 1 | 1000 (mL) | 1 (mL) | 0.001 | 1-liter amber glass, Neat |
| HS23061096-03 | 1 | 1000 (mL) | 1 (mL) | 0.001 | 1-liter amber glass, Neat |
| HS23061096-04 | 1 | 1000 (mL) | 1 (mL) | 0.001 | 1-liter amber glass, Neat |
| HS23061096-07 | 1 | 1000 (mL) | 1 (mL) | 0.001 | 1-liter amber glass, Neat |
| HS23061096-08 | 1 | 1000 (mL) | 1 (mL) | 0.001 | 1-liter amber glass, Neat |
| HS23061096-09 | 1 | 1000 (mL) | 1 (mL) | 0.001 | 1-liter amber glass, Neat |

**Batch ID:** 196608 **Start Date:** 22 Jun 2023 14:30 **End Date:** 22 Jun 2023 14:30
**Method:** WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS23061096-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS23061096-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS23061096-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS23061096-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS23061096-06 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS23061096-09 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

**Batch ID:** 196820 **Start Date:** 27 Jun 2023 11:00 **End Date:** 27 Jun 2023 11:00
**Method:** MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS23061096-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS23061096-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS23061096-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS23061096-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS23061096-06 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS23061096-09 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** 195363 ( 1 ) | **Test Name :** SEMIVOLATILES SIM | | | | **Matrix:** Groundwater | |
| HS23061096-02 | 18CPTMW12SW_061423 | 14 Jun 2023 07:40 | | 18 Jun 2023 09:53 | 26 Jun 2023 13:52 | 1 |
| HS23061096-03 | 18CPTMW12DW_061423 | 14 Jun 2023 08:25 | | 18 Jun 2023 09:53 | 26 Jun 2023 14:10 | 1 |
| HS23061096-04 | MW7_061423 | 14 Jun 2023 09:10 | | 18 Jun 2023 09:53 | 26 Jun 2023 15:40 | 10 |
| HS23061096-07 | MW8_061423 | 14 Jun 2023 10:40 | | 18 Jun 2023 09:53 | 26 Jun 2023 14:46 | 1 |
| HS23061096-08 | 18WW06_061423 | 14 Jun 2023 11:30 | | 18 Jun 2023 09:53 | 26 Jun 2023 15:04 | 1 |
| HS23061096-09 | 18WW02_061423 | 14 Jun 2023 12:15 | | 18 Jun 2023 09:53 | 26 Jun 2023 15:22 | 1 |
| **Batch ID:** 196608 ( 0 ) | **Test Name :** METALS BY ICPMS BY SW6020A | | | | **Matrix:** Groundwater | |
| HS23061096-01 | AWD3_061423 | 14 Jun 2023 06:55 | | 22 Jun 2023 14:30 | 28 Jun 2023 17:14 | 1 |
| HS23061096-02 | 18CPTMW12SW_061423 | 14 Jun 2023 07:40 | | 22 Jun 2023 14:30 | 28 Jun 2023 18:23 | 20 |
| HS23061096-02 | 18CPTMW12SW_061423 | 14 Jun 2023 07:40 | | 22 Jun 2023 14:30 | 28 Jun 2023 17:16 | 1 |
| HS23061096-03 | 18CPTMW12DW_061423 | 14 Jun 2023 08:25 | | 22 Jun 2023 14:30 | 28 Jun 2023 17:18 | 1 |
| HS23061096-05 | 130_061423 | 14 Jun 2023 09:55 | | 22 Jun 2023 14:30 | 28 Jun 2023 18:25 | 20 |
| HS23061096-05 | 130_061423 | 14 Jun 2023 09:55 | | 22 Jun 2023 14:30 | 28 Jun 2023 17:46 | 1 |
| HS23061096-06 | 130_061423_a | 14 Jun 2023 09:55 | | 22 Jun 2023 14:30 | 28 Jun 2023 18:27 | 20 |
| HS23061096-06 | 130_061423_a | 14 Jun 2023 09:55 | | 22 Jun 2023 14:30 | 28 Jun 2023 17:48 | 1 |
| HS23061096-09 | 18WW02_061423 | 14 Jun 2023 12:15 | | 22 Jun 2023 14:30 | 28 Jun 2023 17:49 | 1 |
| **Batch ID:** 196820 ( 0 ) | **Test Name :** MERCURY BY SW7470A | | | | **Matrix:** Groundwater | |
| HS23061096-01 | AWD3_061423 | 14 Jun 2023 06:55 | | 27 Jun 2023 11:00 | 27 Jun 2023 20:23 | 1 |
| HS23061096-02 | 18CPTMW12SW_061423 | 14 Jun 2023 07:40 | | 27 Jun 2023 11:00 | 27 Jun 2023 20:25 | 1 |
| HS23061096-03 | 18CPTMW12DW_061423 | 14 Jun 2023 08:25 | | 27 Jun 2023 11:00 | 27 Jun 2023 20:27 | 1 |
| HS23061096-05 | 130_061423 | 14 Jun 2023 09:55 | | 27 Jun 2023 11:00 | 27 Jun 2023 20:28 | 1 |
| HS23061096-06 | 130_061423_a | 14 Jun 2023 09:55 | | 27 Jun 2023 11:00 | 27 Jun 2023 20:30 | 1 |
| HS23061096-09 | 18WW02_061423 | 14 Jun 2023 12:15 | | 27 Jun 2023 11:00 | 27 Jun 2023 20:32 | 1 |
| **Batch ID:** R439181 ( 0 ) | **Test Name :** VOLATILES ORGANICS BY METHOD 8260C | | | | **Matrix:** Water | |
| HS23061096-10 | TRIP BLANK | 14 Jun 2023 00:00 | | | 17 Jun 2023 16:34 | 1 |
| **Batch ID:** R439181 ( 0 ) | **Test Name :** VOLATILES ORGANICS BY METHOD 8260C | | | | **Matrix:** Groundwater | |
| HS23061096-01 | AWD3_061423 | 14 Jun 2023 06:55 | | | 17 Jun 2023 21:03 | 1 |
| HS23061096-02 | 18CPTMW12SW_061423 | 14 Jun 2023 07:40 | | | 17 Jun 2023 16:56 | 1 |
| HS23061096-03 | 18CPTMW12DW_061423 | 14 Jun 2023 08:25 | | | 17 Jun 2023 17:19 | 1 |
| HS23061096-04 | MW7_061423 | 14 Jun 2023 09:10 | | | 17 Jun 2023 21:48 | 1 |
| HS23061096-05 | 130_061423 | 14 Jun 2023 09:55 | | | 17 Jun 2023 17:41 | 1 |
| HS23061096-06 | 130_061423_a | 14 Jun 2023 09:55 | | | 17 Jun 2023 18:03 | 1 |
| HS23061096-07 | MW8_061423 | 14 Jun 2023 10:40 | | | 17 Jun 2023 20:18 | 1 |
| HS23061096-08 | 18WW06_061423 | 14 Jun 2023 11:30 | | | 17 Jun 2023 18:26 | 1 |
| HS23061096-09 | 18WW02_061423 | 14 Jun 2023 12:15 | | | 17 Jun 2023 18:48 | 1 |

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R439270 ( 0 ) | **Test Name :** VOLATILES ORGANICS BY METHOD 8260C | | | | **Matrix:** Groundwater | |
| HS23061096-01 | AWD3_061423 | 14 Jun 2023 06:55 | | | 19 Jun 2023 16:14 | 10 |
| HS23061096-04 | MW7_061423 | 14 Jun 2023 09:10 | | | 19 Jun 2023 16:36 | 25 |
| HS23061096-07 | MW8_061423 | 14 Jun 2023 10:40 | | | 19 Jun 2023 16:58 | 5 |
| **Batch ID:** R440098 ( 0 ) | **Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850) | | | | **Matrix:** Groundwater | |
| HS23061096-01 | AWD3_061423 | 14 Jun 2023 06:55 | | | 28 Jun 2023 13:16 | 1 |
| HS23061096-02 | 18CPTMW12SW_061423 | 14 Jun 2023 07:40 | | | 28 Jun 2023 13:16 | 1 |
| HS23061096-03 | 18CPTMW12DW_061423 | 14 Jun 2023 08:25 | | | 28 Jun 2023 13:16 | 1 |
| HS23061096-04 | MW7_061423 | 14 Jun 2023 09:10 | | | 28 Jun 2023 13:16 | 1 |
| HS23061096-05 | 130_061423 | 14 Jun 2023 09:55 | | | 28 Jun 2023 13:16 | 1 |
| HS23061096-06 | 130_061423_a | 14 Jun 2023 09:55 | | | 28 Jun 2023 13:16 | 1 |
| HS23061096-07 | MW8_061423 | 14 Jun 2023 10:40 | | | 28 Jun 2023 13:16 | 1 |
| HS23061096-08 | 18WW06_061423 | 14 Jun 2023 11:30 | | | 28 Jun 2023 13:16 | 1 |
| HS23061096-09 | 18WW02_061423 | 14 Jun 2023 12:15 | | | 28 Jun 2023 13:16 | 1 |

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**QC BATCH REPORT**

**Batch ID:** 196608 ( 0 ) **Instrument:** ICPMS06 **Method:** METALS BY ICPMS BY SW6020A

**MBLK** Sample ID: **MBLK-196608** Units: **mg/L** Analysis Date: **28-Jun-2023 16:37**
Client ID: Run ID: **ICPMS06_440069** SeqNo: **7391179** PrepDate: **22-Jun-2023** 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 | 0.00125 | 0.00500 | | | | | | | | U |
| Arsenic | 0.00125 | 0.00500 | | | | | | | | U |
| Barium | 0.00250 | 0.00500 | | | | | | | | U |
| Beryllium | 0.000500 | 0.00200 | | | | | | | | U |
| Cadmium | 0.000500 | 0.00200 | | | | | | | | U |
| Calcium | 0.0500 | 0.500 | | | | | | | | U |
| Chromium | 0.00125 | 0.00500 | | | | | | | | U |
| Cobalt | 0.000500 | 0.00500 | | | | | | | | U |
| Copper | 0.00250 | 0.00500 | | | | | | | | U |
| Iron | 0.0500 | 0.200 | | | | | | | | U |
| Lead | 0.00125 | 0.00500 | | | | | | | | U |
| Magnesium | 0.0500 | 0.200 | | | | | | | | U |
| Manganese | 0.00250 | 0.00500 | | | | | | | | U |
| Nickel | 0.00125 | 0.00500 | | | | | | | | U |
| Potassium | 1.00 | 0.200 | | | | | | | | U |
| Selenium | 0.00250 | 0.00500 | | | | | | | | U |
| Silver | 0.000500 | 0.00500 | | | | | | | | U |
| Sodium | 0.1797 | 0.200 | | | | | | | | J |
| Thallium | 0.000500 | 0.00200 | | | | | | | | U |
| Vanadium | 0.00125 | 0.00500 | | | | | | | | U |
| Zinc | 0.00250 | 0.00500 | | | | | | | | U |

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**QC BATCH REPORT**

**Batch ID: 196608 ( 0 )** **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

**LCS** Sample ID: **LCS-196608** Units: **mg/L** Analysis Date: **28-Jun-2023 16:39**
Client ID: Run ID: **ICPMS06_440069** SeqNo: **7391180** PrepDate: **22-Jun-2023** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 0.1025 | 0.0100 | 0.1 | 0 | 102 | 84 - 117 | | | | |
| Antimony | 0.04749 | 0.00500 | 0.05 | 0 | 95.0 | 85 - 117 | | | | |
| Arsenic | 0.04748 | 0.00500 | 0.05 | 0 | 95.0 | 84 - 116 | | | | |
| Barium | 0.04561 | 0.00500 | 0.05 | 0 | 91.2 | 86 - 114 | | | | |
| Beryllium | 0.04748 | 0.00200 | 0.05 | 0 | 95.0 | 83 - 121 | | | | |
| Cadmium | 0.04639 | 0.00200 | 0.05 | 0 | 92.8 | 87 - 115 | | | | |
| Calcium | 4.818 | 0.500 | 5 | 0 | 96.4 | 87 - 118 | | | | |
| Chromium | 0.04652 | 0.00500 | 0.05 | 0 | 93.0 | 85 - 116 | | | | |
| Cobalt | 0.04668 | 0.00500 | 0.05 | 0 | 93.4 | 86 - 115 | | | | |
| Copper | 0.05547 | 0.00500 | 0.05 | 0 | 111 | 85 - 118 | | | | |
| Iron | 4.746 | 0.200 | 5 | 0 | 94.9 | 87 - 118 | | | | |
| Lead | 0.04629 | 0.00500 | 0.05 | 0 | 92.6 | 88 - 115 | | | | |
| Magnesium | 4.964 | 0.200 | 5 | 0 | 99.3 | 83 - 118 | | | | |
| Manganese | 0.04664 | 0.00500 | 0.05 | 0 | 93.3 | 87 - 115 | | | | |
| Nickel | 0.0475 | 0.00500 | 0.05 | 0 | 95.0 | 85 - 117 | | | | |
| Potassium | 4.778 | 0.200 | 5 | 0 | 95.6 | 87 - 115 | | | | |
| Selenium | 0.04732 | 0.00500 | 0.05 | 0 | 94.6 | 80 - 120 | | | | |
| Silver | 0.04641 | 0.00500 | 0.05 | 0 | 92.8 | 85 - 116 | | | | |
| Sodium | 5.042 | 0.200 | 5 | 0 | 101 | 85 - 117 | | | | |
| Vanadium | 0.04528 | 0.00500 | 0.05 | 0 | 90.6 | 86 - 115 | | | | |
| Zinc | 0.05419 | 0.00500 | 0.05 | 0 | 108 | 83 - 119 | | | | |

**LCS** Sample ID: **LCS-196608** Units: **mg/L** Analysis Date: **28-Jun-2023 17:56**
Client ID: Run ID: **ICPMS06_440069** SeqNo: **7391298** PrepDate: **22-Jun-2023** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Thallium | 0.04315 | 0.00200 | 0.05 | 0 | 86.3 | 82 - 116 | | | | |

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**QC BATCH REPORT**

**Batch ID: 196608 ( 0 )** **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

**MS** Sample ID: **HS23060722-06MS** Units: **mg/L** Analysis Date: **28-Jun-2023 16:45**
Client ID: Run ID: **ICPMS06_440069** SeqNo: **7391183** PrepDate: **22-Jun-2023** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 0.1304 | 0.0100 | 0.1 | 0.03528 | 95.1 | 84 - 117 | | | | |
| Antimony | 0.04862 | 0.00500 | 0.05 | 0.000022 | 97.2 | 85 - 117 | | | | |
| Arsenic | 0.04958 | 0.00500 | 0.05 | 0.000466 | 98.2 | 84 - 116 | | | | |
| Barium | 0.07556 | 0.00500 | 0.05 | 0.0284 | 94.3 | 86 - 114 | | | | |
| Beryllium | 0.05086 | 0.00200 | 0.05 | 0.000059 | 102 | 83 - 121 | | | | |
| Cadmium | 0.04531 | 0.00200 | 0.05 | 0.000128 | 90.4 | 87 - 115 | | | | |
| Calcium | 133.3 | 0.500 | 5 | 139.1 | -117 | 87 - 118 | | | | SO |
| Chromium | 0.05111 | 0.00500 | 0.05 | 0.005369 | 91.5 | 85 - 116 | | | | |
| Cobalt | 0.04919 | 0.00500 | 0.05 | 0.002226 | 93.9 | 86 - 115 | | | | |
| Copper | 0.04826 | 0.00500 | 0.05 | 0.001363 | 93.8 | 85 - 118 | | | | |
| Iron | 4.979 | 0.200 | 5 | 0.1498 | 96.6 | 87 - 118 | | | | |
| Lead | 0.04611 | 0.00500 | 0.05 | 0.000089 | 92.0 | 88 - 115 | | | | |
| Magnesium | 67.95 | 0.200 | 5 | 68.53 | -11.7 | 83 - 118 | | | | SO |
| Manganese | 0.3914 | 0.00500 | 0.05 | 0.369 | 44.7 | 87 - 115 | | | | SO |
| Nickel | 0.08592 | 0.00500 | 0.05 | 0.04403 | 83.8 | 85 - 117 | | | | S |
| Potassium | 5.514 | 0.200 | 5 | 0.8914 | 92.5 | 87 - 115 | | | | |
| Selenium | 0.04988 | 0.00500 | 0.05 | -0.000259 | 100 | 80 - 120 | | | | |
| Silver | 0.04365 | 0.00500 | 0.05 | -0.000053 | 87.4 | 85 - 116 | | | | |
| Sodium | 351 | 0.200 | 5 | 371.8 | -417 | 85 - 117 | | | | SEO |
| Thallium | 0.04167 | 0.00200 | 0.05 | 0.000629 | 82.1 | 82 - 116 | | | | |
| Vanadium | 0.0502 | 0.00500 | 0.05 | 0.00278 | 94.8 | 86 - 115 | | | | |
| Zinc | 0.05183 | 0.00500 | 0.05 | 0.00379 | 96.1 | 83 - 119 | | | | |

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**QC BATCH REPORT**

**Batch ID: 196608 ( 0 )** **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

**MSD** Sample ID: **HS23060722-06MSD** Units: **mg/L** Analysis Date: **28-Jun-2023 16:47**
Client ID: Run ID: **ICPMS06_440069** SeqNo: **7391184** PrepDate: **22-Jun-2023** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 0.1264 | 0.0100 | 0.1 | 0.03528 | 91.2 | 84 - 117 | 0.1304 | 3.08 | 20 | |
| Antimony | 0.04723 | 0.00500 | 0.05 | 0.000022 | 94.4 | 85 - 117 | 0.04862 | 2.9 | 20 | |
| Arsenic | 0.04882 | 0.00500 | 0.05 | 0.000466 | 96.7 | 84 - 116 | 0.04958 | 1.54 | 20 | |
| Barium | 0.07688 | 0.00500 | 0.05 | 0.0284 | 97.0 | 86 - 114 | 0.07556 | 1.73 | 20 | |
| Beryllium | 0.04991 | 0.00200 | 0.05 | 0.000059 | 99.7 | 83 - 121 | 0.05086 | 1.89 | 20 | |
| Cadmium | 0.04775 | 0.00200 | 0.05 | 0.000128 | 95.2 | 87 - 115 | 0.04531 | 5.25 | 20 | |
| Calcium | 132.2 | 0.500 | 5 | 139.1 | -139 | 87 - 118 | 133.3 | 0.832 | 20 | SO |
| Chromium | 0.05008 | 0.00500 | 0.05 | 0.005369 | 89.4 | 85 - 116 | 0.05111 | 2.03 | 20 | |
| Cobalt | 0.04774 | 0.00500 | 0.05 | 0.002226 | 91.0 | 86 - 115 | 0.04919 | 2.98 | 20 | |
| Copper | 0.04753 | 0.00500 | 0.05 | 0.001363 | 92.3 | 85 - 118 | 0.04826 | 1.53 | 20 | |
| Iron | 4.837 | 0.200 | 5 | 0.1498 | 93.7 | 87 - 118 | 4.979 | 2.89 | 20 | |
| Lead | 0.04661 | 0.00500 | 0.05 | 0.000089 | 93.0 | 88 - 115 | 0.04611 | 1.1 | 20 | |
| Magnesium | 66.94 | 0.200 | 5 | 68.53 | -31.8 | 83 - 118 | 67.95 | 1.49 | 20 | SO |
| Manganese | 0.3823 | 0.00500 | 0.05 | 0.369 | 26.6 | 87 - 115 | 0.3914 | 2.33 | 20 | SO |
| Nickel | 0.08483 | 0.00500 | 0.05 | 0.04403 | 81.6 | 85 - 117 | 0.08592 | 1.27 | 20 | S |
| Potassium | 5.402 | 0.200 | 5 | 0.8914 | 90.2 | 87 - 115 | 5.514 | 2.06 | 20 | |
| Selenium | 0.04792 | 0.00500 | 0.05 | -0.000259 | 96.4 | 80 - 120 | 0.04988 | 4 | 20 | |
| Silver | 0.04425 | 0.00500 | 0.05 | -0.000053 | 88.6 | 85 - 116 | 0.04365 | 1.38 | 20 | |
| Sodium | 343.9 | 0.200 | 5 | 371.8 | -558 | 85 - 117 | 351 | 2.03 | 20 | SEO |
| Thallium | 0.04292 | 0.00200 | 0.05 | 0.000629 | 84.6 | 82 - 116 | 0.04167 | 2.95 | 20 | |
| Vanadium | 0.04905 | 0.00500 | 0.05 | 0.00278 | 92.5 | 86 - 115 | 0.0502 | 2.32 | 20 | |
| Zinc | 0.05008 | 0.00500 | 0.05 | 0.00379 | 92.6 | 83 - 119 | 0.05183 | 3.43 | 20 | |

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**QC BATCH REPORT**

**Batch ID: 196608 ( 0 )** **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

**PDS** Sample ID: **HS23060722-06PDS** Units: **mg/L** Analysis Date: **28-Jun-2023 16:49**
Client ID: Run ID: **ICPMS06_440069** SeqNo: **7391185** PrepDate: **22-Jun-2023** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 0.1267 | 0.0100 | 0.1 | 0.03528 | 91.4 | 80 - 120 | | | | |
| Antimony | 0.09682 | 0.00500 | 0.1 | 0.000022 | 96.8 | 80 - 120 | | | | |
| Arsenic | 0.09754 | 0.00500 | 0.1 | 0.000466 | 97.1 | 80 - 120 | | | | |
| Barium | 0.1233 | 0.00500 | 0.1 | 0.0284 | 94.9 | 80 - 120 | | | | |
| Beryllium | 0.1033 | 0.00200 | 0.1 | 0.000059 | 103 | 80 - 120 | | | | |
| Cadmium | 0.09369 | 0.00200 | 0.1 | 0.000128 | 93.6 | 80 - 120 | | | | |
| Chromium | 0.098 | 0.00500 | 0.1 | 0.005369 | 92.6 | 80 - 120 | | | | |
| Cobalt | 0.09494 | 0.00500 | 0.1 | 0.002226 | 92.7 | 80 - 120 | | | | |
| Copper | 0.09394 | 0.00500 | 0.1 | 0.001363 | 92.6 | 80 - 120 | | | | |
| Iron | 9.75 | 0.200 | 10 | 0.1498 | 96.0 | 80 - 120 | | | | |
| Lead | 0.09498 | 0.00500 | 0.1 | 0.000089 | 94.9 | 80 - 120 | | | | |
| Potassium | 10.21 | 0.200 | 10 | 0.8914 | 93.2 | 80 - 120 | | | | |
| Selenium | 0.09654 | 0.00500 | 0.1 | -0.000259 | 96.8 | 80 - 120 | | | | |
| Silver | 0.09288 | 0.00500 | 0.1 | -0.000053 | 92.9 | 80 - 120 | | | | |
| Thallium | 0.08824 | 0.00200 | 0.1 | 0.000629 | 87.6 | 80 - 120 | | | | |
| Vanadium | 0.09786 | 0.00500 | 0.1 | 0.00278 | 95.1 | 80 - 120 | | | | |
| Zinc | 0.09871 | 0.00500 | 0.1 | 0.00379 | 94.9 | 80 - 120 | | | | |

**PDS** Sample ID: **HS23060722-06PDS** Units: **mg/L** Analysis Date: **28-Jun-2023 18:06**
Client ID: Run ID: **ICPMS06_440069** SeqNo: **7391303** PrepDate: **22-Jun-2023** DF: **5**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | 179.7 | 2.50 | 50 | 129.1 | 101 | 80 - 120 | | | | |
| Magnesium | 111.1 | 1.00 | 50 | 63.39 | 95.5 | 80 - 120 | | | | |
| Manganese | 0.8288 | 0.0250 | 0.5 | 0.3473 | 96.3 | 80 - 120 | | | | |
| Nickel | 0.522 | 0.0250 | 0.5 | 0.03966 | 96.5 | 80 - 120 | | | | |
| Sodium | 394.5 | 1.00 | 50 | 342.4 | 104 | 80 - 120 | | | | O |

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**QC BATCH REPORT**

**Batch ID: 196608 ( 0 )** **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

**SD** Sample ID: **HS23060722-06SD** Units: **mg/L** Analysis Date: **28-Jun-2023 16:43**
Client ID: Run ID: **ICPMS06_440069** SeqNo: **7391182** PrepDate: **22-Jun-2023** DF: **5**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 0.02923 | 0.0500 | | | | | 0.03528 | 0 | 10 | J |
| Antimony | 0.00625 | 0.0250 | | | | | 0.000022 | 0 | 10 | U |
| Arsenic | 0.00625 | 0.0250 | | | | | 0.000466 | 0 | 10 | U |
| Barium | 0.02805 | 0.0250 | | | | | 0.0284 | 1.25 | 10 | |
| Beryllium | 0.00250 | 0.0100 | | | | | 0.000059 | 0 | 10 | U |
| Cadmium | 0.00250 | 0.0100 | | | | | 0.000128 | 0 | 10 | U |
| Chromium | 0.004374 | 0.0250 | | | | | 0.005369 | 0 | 10 | J |
| Cobalt | 0.001953 | 0.0250 | | | | | 0.002226 | 0 | 10 | J |
| Copper | 0.0125 | 0.0250 | | | | | 0.001363 | 0 | 10 | U |
| Iron | 0.0983 | 1.00 | | | | | 0.1498 | 0 | 10 | J |
| Lead | 0.00625 | 0.0250 | | | | | 0.000089 | 0 | 10 | U |
| Potassium | 0.5781 | 1.00 | | | | | 0.8914 | 0 | 10 | J |
| Selenium | 0.0125 | 0.0250 | | | | | -0.000259 | 0 | 10 | U |
| Silver | 0.00250 | 0.0250 | | | | | -0.000053 | 0 | 10 | U |
| Thallium | 0.00250 | 0.0100 | | | | | 0.000629 | 0 | 10 | U |
| Vanadium | 0.01835 | 0.0250 | | | | | 0.00278 | 0 | 10 | J |
| Zinc | 0.0125 | 0.0250 | | | | | 0.00379 | 0 | 10 | U |

**SD** Sample ID: **HS23060722-06SD** Units: **mg/L** Analysis Date: **28-Jun-2023 18:00**
Client ID: Run ID: **ICPMS06_440069** SeqNo: **7391300** PrepDate: **22-Jun-2023** DF: **25**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | 130.7 | 12.5 | | | | | 129.1 | 1.25 | 10 | |
| Magnesium | 65.32 | 5.00 | | | | | 63.39 | 3.06 | 10 | |
| Manganese | 0.3492 | 0.125 | | | | | 0.3473 | 0.555 | 10 | |
| Nickel | 0.0374 | 0.125 | | | | | 0.03966 | 0 | 10 | J |
| Sodium | 353.8 | 5.00 | | | | | 342.4 | 3.33 | 10 | |

**The following samples were analyzed in this batch:** HS23061096-01 HS23061096-02 HS23061096-03 HS23061096-05 HS23061096-06 HS23061096-09

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**QC BATCH REPORT**

**Batch ID: 196820 ( 0 )** **Instrument: HG04** **Method: MERCURY BY SW7470A**

**MBLK** Sample ID: **MBLK-196820** Units: **mg/L** Analysis Date: **27-Jun-2023 19:35**
Client ID: Run ID: **HG04_440017** SeqNo: **7388460** PrepDate: **27-Jun-2023** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.000100 | 0.000200 | | | | | | | | U |

**LCS** Sample ID: **LCS-196820** Units: **mg/L** Analysis Date: **27-Jun-2023 19:56**
Client ID: Run ID: **HG04_440017** SeqNo: **7388461** PrepDate: **27-Jun-2023** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00503 | 0.000200 | 0.005 | 0 | 101 | 82 - 119 | | | | |

**MS** Sample ID: **HS23060999-02MS** Units: **mg/L** Analysis Date: **27-Jun-2023 20:03**
Client ID: Run ID: **HG04_440017** SeqNo: **7388464** PrepDate: **27-Jun-2023** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00497 | 0.000200 | 0.005 | -0.00001100 | 99.6 | 82 - 119 | | | | |

**MSD** Sample ID: **HS23060999-02MSD** Units: **mg/L** Analysis Date: **27-Jun-2023 20:07**
Client ID: Run ID: **HG04_440017** SeqNo: **7388465** PrepDate: **27-Jun-2023** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00499 | 0.000200 | 0.005 | -0.00001100 | 100 | 82 - 119 | 0.004970 | 0.402 | 20 | |

**The following samples were analyzed in this batch:** HS23061096-01 HS23061096-02 HS23061096-03 HS23061096-05 HS23061096-06 HS23061096-09

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**QC BATCH REPORT**

**Batch ID: 195363 ( 1 )** **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

**MBLK** Sample ID: **MBLK-195363** Units: **ug/L** Analysis Date: **26-Jun-2023 12:04**
Client ID: Run ID: **SV-6_439713** SeqNo: **7386221** PrepDate: **18-Jun-2023** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.0050 | 0.030 | | | | | | | | U |
| *Surr: 2-Fluorobiphenyl* | *0.08907* | *0* | *0.08* | *0* | *111* | *40 - 140* | | | | |
| *Surr: 4-Terphenyl-d14* | *0.08314* | *0* | *0.08* | *0* | *104* | *40 - 140* | | | | |
| *Surr: Nitrobenzene-d5* | *0.07801* | *0* | *0.08* | *0* | *97.5* | *40 - 140* | | | | |

**LCS** Sample ID: **LCS-195363** Units: **ug/L** Analysis Date: **26-Jun-2023 12:22**
Client ID: Run ID: **SV-6_439713** SeqNo: **7386222** PrepDate: **18-Jun-2023** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.0707 | 0.030 | 0.08 | 0 | 88.4 | 40 - 140 | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.08973* | *0* | *0.08* | *0* | *112* | *40 - 140* | | | | |
| *Surr: 4-Terphenyl-d14* | *0.1113* | *0* | *0.08* | *0* | *139* | *40 - 140* | | | | |
| *Surr: Nitrobenzene-d5* | *0.0747* | *0* | *0.08* | *0* | *93.4* | *40 - 140* | | | | |

**LCSD** Sample ID: **LCSD-195363** Units: **ug/L** Analysis Date: **26-Jun-2023 13:34**
Client ID: Run ID: **SV-6_439713** SeqNo: **7386223** PrepDate: **18-Jun-2023** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.06908 | 0.030 | 0.08 | 0 | 86.3 | 40 - 140 | 0.0707 | 2.33 | 20 | |
| *Surr: 2-Fluorobiphenyl* | *0.09272* | *0* | *0.08* | *0* | *116* | *40 - 140* | *0.08973* | *3.28* | *20* | |
| *Surr: 4-Terphenyl-d14* | *0.11* | *0* | *0.08* | *0* | *137* | *40 - 140* | *0.1113* | *1.17* | *20* | |
| *Surr: Nitrobenzene-d5* | *0.07877* | *0* | *0.08* | *0* | *98.5* | *40 - 140* | *0.0747* | *5.3* | *20* | |

**The following samples were analyzed in this batch:** HS23061096-02 HS23061096-03 HS23061096-04 HS23061096-07 HS23061096-08 HS23061096-09

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**QC BATCH REPORT**

**Batch ID:** R439181 ( 0 ) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

**MBLK** Sample ID: **VBLKW-230617** Units: **ug/L** Analysis Date: **17-Jun-2023 13:35**
Client ID: Run ID: **VOA9_439181** SeqNo: **7369116** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.50 | 1.0 | | | | | | | | U |
| 1,1,1-Trichloroethane | 0.50 | 1.0 | | | | | | | | U |
| 1,1,2,2-Tetrachloroethane | 0.50 | 1.0 | | | | | | | | U |
| 1,1,2-Trichloroethane | 0.50 | 1.0 | | | | | | | | U |
| 1,1-Dichloroethane | 0.50 | 1.0 | | | | | | | | U |
| 1,1-Dichloroethene | 0.50 | 1.0 | | | | | | | | U |
| 1,1-Dichloropropene | 0.50 | 1.0 | | | | | | | | U |
| 1,2,3-Trichlorobenzene | 0.50 | 1.0 | | | | | | | | U |
| 1,2,3-Trichloropropane | 0.50 | 1.0 | | | | | | | | U |
| 1,2,4-Trichlorobenzene | 0.50 | 1.0 | | | | | | | | U |
| 1,2,4-Trimethylbenzene | 0.50 | 1.0 | | | | | | | | U |
| 1,2-Dibromo-3-chloropropane | 0.50 | 1.0 | | | | | | | | U |
| 1,2-Dibromoethane | 0.50 | 1.0 | | | | | | | | U |
| 1,2-Dichlorobenzene | 0.50 | 1.0 | | | | | | | | U |
| 1,2-Dichloroethane | 0.50 | 1.0 | | | | | | | | U |
| 1,2-Dichloropropane | 0.50 | 1.0 | | | | | | | | U |
| 1,3,5-Trimethylbenzene | 0.50 | 1.0 | | | | | | | | U |
| 1,3-Dichlorobenzene | 0.50 | 1.0 | | | | | | | | U |
| 1,3-Dichloropropane | 0.50 | 1.0 | | | | | | | | U |
| 1,4-Dichlorobenzene | 0.50 | 1.0 | | | | | | | | U |
| 2,2-Dichloropropane | 0.50 | 1.0 | | | | | | | | U |
| 2-Butanone | 0.50 | 2.0 | | | | | | | | U |
| 2-Chlorotoluene | 0.50 | 1.0 | | | | | | | | U |
| 2-Hexanone | 0.50 | 2.0 | | | | | | | | U |
| 4-Chlorotoluene | 0.50 | 1.0 | | | | | | | | U |
| 4-Isopropyltoluene | 0.50 | 1.0 | | | | | | | | U |
| 4-Methyl-2-pentanone | 0.50 | 2.0 | | | | | | | | U |
| Acetone | 0.50 | 2.0 | | | | | | | | U |
| Benzene | 0.50 | 1.0 | | | | | | | | U |
| Bromobenzene | 0.50 | 1.0 | | | | | | | | U |
| Bromochloromethane | 0.50 | 1.0 | | | | | | | | U |
| Bromodichloromethane | 0.50 | 1.0 | | | | | | | | U |
| Bromoform | 0.50 | 1.0 | | | | | | | | U |
| Bromomethane | 0.50 | 1.0 | | | | | | | | U |

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**QC BATCH REPORT**

**Batch ID:** R439181 ( 0 ) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

**MBLK** Sample ID: **VBLKW-230617** Units: **ug/L** Analysis Date: **17-Jun-2023 13:35**
Client ID: Run ID: **VOA9_439181** SeqNo: **7369116** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon disulfide | 0.50 | 2.0 | | | | | | | | U |
| Carbon tetrachloride | 0.50 | 1.0 | | | | | | | | U |
| Chlorobenzene | 0.50 | 1.0 | | | | | | | | U |
| Chloroethane | 0.50 | 1.0 | | | | | | | | U |
| Chloroform | 0.50 | 1.0 | | | | | | | | U |
| Chloromethane | 0.50 | 1.0 | | | | | | | | U |
| cis-1,2-Dichloroethene | 0.50 | 1.0 | | | | | | | | U |
| cis-1,3-Dichloropropene | 0.50 | 1.0 | | | | | | | | U |
| Dibromochloromethane | 0.50 | 1.0 | | | | | | | | U |
| Dibromomethane | 0.50 | 1.0 | | | | | | | | U |
| Dichlorodifluoromethane | 0.50 | 1.0 | | | | | | | | U |
| Ethylbenzene | 0.50 | 1.0 | | | | | | | | U |
| Hexachlorobutadiene | 0.50 | 1.0 | | | | | | | | U |
| Isopropylbenzene | 0.50 | 1.0 | | | | | | | | U |
| m,p-Xylene | 1.0 | 2.0 | | | | | | | | U |
| Methylene chloride | 0.50 | 2.0 | | | | | | | | U |
| Naphthalene | 0.50 | 1.0 | | | | | | | | U |
| n-Butylbenzene | 0.50 | 1.0 | | | | | | | | U |
| n-Propylbenzene | 0.50 | 1.0 | | | | | | | | U |
| o-Xylene | 0.50 | 1.0 | | | | | | | | U |
| sec-Butylbenzene | 0.50 | 1.0 | | | | | | | | U |
| Styrene | 0.50 | 1.0 | | | | | | | | U |
| tert-Butylbenzene | 0.50 | 1.0 | | | | | | | | U |
| Tetrachloroethene | 0.50 | 1.0 | | | | | | | | U |
| Toluene | 0.50 | 1.0 | | | | | | | | U |
| trans-1,2-Dichloroethene | 0.50 | 1.0 | | | | | | | | U |
| trans-1,3-Dichloropropene | 0.50 | 1.0 | | | | | | | | U |
| Trichloroethene | 0.50 | 1.0 | | | | | | | | U |
| Trichlorofluoromethane | 0.50 | 1.0 | | | | | | | | U |
| Vinyl chloride | 0.50 | 1.0 | | | | | | | | U |
| *Surr: 1,2-Dichloroethane-d4* | *56.43* | *1.0* | *50* | *0* | *113* | *81 - 118* | | | | |
| *Surr: 4-Bromofluorobenzene* | *48.33* | *1.0* | *50* | *0* | *96.7* | *85 - 114* | | | | |
| *Surr: Dibromofluoromethane* | *49.13* | *1.0* | *50* | *0* | *98.3* | *80 - 119* | | | | |
| *Surr: Toluene-d8* | *54.66* | *1.0* | *50* | *0* | *109* | *89 - 112* | | | | |

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**QC BATCH REPORT**

**Batch ID:** R439181 ( 0 ) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

**LCS** Sample ID: **VLCSW-230617** Units: **ug/L** Analysis Date: **17-Jun-2023 12:50**
Client ID: Run ID: **VOA9_439181** SeqNo: **7369115** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 20.47 | 1.0 | 20 | 0 | 102 | 78 - 124 | | | | |
| 1,1,1-Trichloroethane | 21.62 | 1.0 | 20 | 0 | 108 | 74 - 131 | | | | |
| 1,1,2,2-Tetrachloroethane | 18.93 | 1.0 | 20 | 0 | 94.7 | 71 - 121 | | | | |
| 1,1,2-Trichloroethane | 19.18 | 1.0 | 20 | 0 | 95.9 | 80 - 119 | | | | |
| 1,1-Dichloroethane | 19.76 | 1.0 | 20 | 0 | 98.8 | 77 - 125 | | | | |
| 1,1-Dichloroethene | 20.25 | 1.0 | 20 | 0 | 101 | 71 - 131 | | | | |
| 1,1-Dichloropropene | 21.69 | 1.0 | 20 | 0 | 108 | 78 - 125 | | | | |
| 1,2,3-Trichlorobenzene | 19.02 | 1.0 | 20 | 0 | 95.1 | 69 - 129 | | | | |
| 1,2,3-Trichloropropane | 18.6 | 1.0 | 20 | 0 | 93.0 | 73 - 122 | | | | |
| 1,2,4-Trichlorobenzene | 19.57 | 1.0 | 20 | 0 | 97.8 | 69 - 130 | | | | |
| 1,2,4-Trimethylbenzene | 21.35 | 1.0 | 20 | 0 | 107 | 76 - 124 | | | | |
| 1,2-Dibromo-3-chloropropane | 17.6 | 1.0 | 20 | 0 | 88.0 | 62 - 128 | | | | |
| 1,2-Dibromoethane | 19.52 | 1.0 | 20 | 0 | 97.6 | 77 - 121 | | | | |
| 1,2-Dichlorobenzene | 20.22 | 1.0 | 20 | 0 | 101 | 80 - 119 | | | | |
| 1,2-Dichloroethane | 22.51 | 1.0 | 20 | 0 | 113 | 73 - 128 | | | | |
| 1,2-Dichloropropane | 20.03 | 1.0 | 20 | 0 | 100 | 78 - 122 | | | | |
| 1,3,5-Trimethylbenzene | 21.26 | 1.0 | 20 | 0 | 106 | 75 - 124 | | | | |
| 1,3-Dichlorobenzene | 20.43 | 1.0 | 20 | 0 | 102 | 80 - 119 | | | | |
| 1,3-Dichloropropane | 19.75 | 1.0 | 20 | 0 | 98.8 | 80 - 119 | | | | |
| 1,4-Dichlorobenzene | 20.47 | 1.0 | 20 | 0 | 102 | 79 - 118 | | | | |
| 2,2-Dichloropropane | 23.21 | 1.0 | 20 | 0 | 116 | 60 - 139 | | | | |
| 2-Butanone | 37.17 | 2.0 | 40 | 0 | 92.9 | 56 - 143 | | | | |
| 2-Chlorotoluene | 21.18 | 1.0 | 20 | 0 | 106 | 79 - 122 | | | | |
| 2-Hexanone | 35.92 | 2.0 | 40 | 0 | 89.8 | 57 - 139 | | | | |
| 4-Chlorotoluene | 22.17 | 1.0 | 20 | 0 | 111 | 78 - 122 | | | | |
| 4-Isopropyltoluene | 21.91 | 1.0 | 20 | 0 | 110 | 77 - 127 | | | | |
| 4-Methyl-2-pentanone | 37.2 | 2.0 | 40 | 0 | 93.0 | 67 - 130 | | | | |
| Acetone | 42.09 | 2.0 | 40 | 0 | 105 | 39 - 160 | | | | |
| Benzene | 20.18 | 1.0 | 20 | 0 | 101 | 79 - 120 | | | | |
| Bromobenzene | 19.9 | 1.0 | 20 | 0 | 99.5 | 80 - 120 | | | | |
| Bromochloromethane | 18.68 | 1.0 | 20 | 0 | 93.4 | 78 - 123 | | | | |
| Bromodichloromethane | 21.11 | 1.0 | 20 | 0 | 106 | 79 - 125 | | | | |
| Bromoform | 20.14 | 1.0 | 20 | 0 | 101 | 66 - 130 | | | | |
| Bromomethane | 25.47 | 1.0 | 20 | 0 | 127 | 53 - 141 | | | | |

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**QC BATCH REPORT**

**Batch ID:** R439181 ( 0 ) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

**LCS** Sample ID: **VLCSW-230617** Units: **ug/L** Analysis Date: **17-Jun-2023 12:50**
Client ID: Run ID: **VOA9_439181** SeqNo: **7369115** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon disulfide | 47.41 | 2.0 | 40 | 0 | 119 | 64 - 133 | | | | |
| Carbon tetrachloride | 22.81 | 1.0 | 20 | 0 | 114 | 72 - 136 | | | | |
| Chlorobenzene | 20.19 | 1.0 | 20 | 0 | 101 | 82 - 118 | | | | |
| Chloroethane | 20.27 | 1.0 | 20 | 0 | 101 | 60 - 138 | | | | |
| Chloroform | 20.49 | 1.0 | 20 | 0 | 102 | 79 - 124 | | | | |
| Chloromethane | 18.09 | 1.0 | 20 | 0 | 90.4 | 50 - 139 | | | | |
| cis-1,2-Dichloroethene | 20.31 | 1.0 | 20 | 0 | 102 | 78 - 123 | | | | |
| cis-1,3-Dichloropropene | 18.69 | 1.0 | 20 | 0 | 93.4 | 75 - 124 | | | | |
| Dibromochloromethane | 20.91 | 1.0 | 20 | 0 | 105 | 74 - 126 | | | | |
| Dibromomethane | 21.59 | 1.0 | 20 | 0 | 108 | 79 - 123 | | | | |
| Dichlorodifluoromethane | 20.34 | 1.0 | 20 | 0 | 102 | 32 - 152 | | | | |
| Ethylbenzene | 20.8 | 1.0 | 20 | 0 | 104 | 79 - 121 | | | | |
| Hexachlorobutadiene | 22.81 | 1.0 | 20 | 0 | 114 | 66 - 134 | | | | |
| Isopropylbenzene | 22.8 | 1.0 | 20 | 0 | 114 | 72 - 131 | | | | |
| m,p-Xylene | 43.31 | 2.0 | 40 | 0 | 108 | 80 - 121 | | | | |
| Methylene chloride | 21.53 | 2.0 | 20 | 0 | 108 | 74 - 124 | | | | |
| Naphthalene | 18.64 | 1.0 | 20 | 0 | 93.2 | 61 - 128 | | | | |
| n-Butylbenzene | 22.75 | 1.0 | 20 | 0 | 114 | 75 - 128 | | | | |
| n-Propylbenzene | 22.04 | 1.0 | 20 | 0 | 110 | 76 - 126 | | | | |
| o-Xylene | 20.74 | 1.0 | 20 | 0 | 104 | 78 - 122 | | | | |
| sec-Butylbenzene | 22.19 | 1.0 | 20 | 0 | 111 | 77 - 126 | | | | |
| Styrene | 21.45 | 1.0 | 20 | 0 | 107 | 78 - 123 | | | | |
| tert-Butylbenzene | 21.44 | 1.0 | 20 | 0 | 107 | 78 - 124 | | | | |
| Tetrachloroethene | 21.4 | 1.0 | 20 | 0 | 107 | 74 - 129 | | | | |
| Toluene | 20.73 | 1.0 | 20 | 0 | 104 | 80 - 121 | | | | |
| trans-1,2-Dichloroethene | 20.72 | 1.0 | 20 | 0 | 104 | 75 - 124 | | | | |
| trans-1,3-Dichloropropene | 18.67 | 1.0 | 20 | 0 | 93.3 | 73 - 127 | | | | |
| Trichloroethene | 20.25 | 1.0 | 20 | 0 | 101 | 79 - 123 | | | | |
| Trichlorofluoromethane | 24.56 | 1.0 | 20 | 0 | 123 | 65 - 141 | | | | |
| Vinyl chloride | 19.33 | 1.0 | 20 | 0 | 96.7 | 58 - 137 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *52.21* | *1.0* | *50* | *0* | *104* | *81 - 118* | | | | |
| *Surr: 4-Bromofluorobenzene* | *50.94* | *1.0* | *50* | *0* | *102* | *85 - 114* | | | | |
| *Surr: Dibromofluoromethane* | *48.68* | *1.0* | *50* | *0* | *97.4* | *80 - 119* | | | | |
| *Surr: Toluene-d8* | *46.74* | *1.0* | *50* | *0* | *93.5* | *89 - 112* | | | | |

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**QC BATCH REPORT**

**Batch ID:** R439181 ( 0 ) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

**MS** Sample ID: **HS23060983-01MS** Units: **ug/L** Analysis Date: **17-Jun-2023 14:42**
Client ID: Run ID: **VOA9_439181** SeqNo: **7369119** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 21.93 | 1.0 | 20 | 0 | 110 | 78 - 124 | | | | |
| 1,1,1-Trichloroethane | 22.73 | 1.0 | 20 | 0 | 114 | 74 - 131 | | | | |
| 1,1,2,2-Tetrachloroethane | 18.61 | 1.0 | 20 | 0 | 93.1 | 71 - 121 | | | | |
| 1,1,2-Trichloroethane | 19.59 | 1.0 | 20 | 0 | 97.9 | 80 - 119 | | | | |
| 1,1-Dichloroethane | 20.49 | 1.0 | 20 | 0 | 102 | 77 - 125 | | | | |
| 1,1-Dichloroethene | 21.77 | 1.0 | 20 | 0 | 109 | 71 - 131 | | | | |
| 1,1-Dichloropropene | 24.67 | 1.0 | 20 | 0 | 123 | 78 - 125 | | | | |
| 1,2,3-Trichlorobenzene | 20.03 | 1.0 | 20 | 0 | 100 | 69 - 129 | | | | |
| 1,2,3-Trichloropropane | 18.48 | 1.0 | 20 | 0 | 92.4 | 73 - 122 | | | | |
| 1,2,4-Trichlorobenzene | 19.93 | 1.0 | 20 | 0 | 99.6 | 69 - 130 | | | | |
| 1,2,4-Trimethylbenzene | 23.61 | 1.0 | 20 | 0 | 118 | 76 - 124 | | | | |
| 1,2-Dibromo-3-chloropropane | 17.43 | 1.0 | 20 | 0 | 87.1 | 62 - 128 | | | | |
| 1,2-Dibromoethane | 20.69 | 1.0 | 20 | 0 | 103 | 77 - 121 | | | | |
| 1,2-Dichlorobenzene | 20.82 | 1.0 | 20 | 0 | 104 | 80 - 119 | | | | |
| 1,2-Dichloroethane | 23.32 | 1.0 | 20 | 0 | 117 | 73 - 128 | | | | |
| 1,2-Dichloropropane | 20.53 | 1.0 | 20 | 0 | 103 | 78 - 122 | | | | |
| 1,3,5-Trimethylbenzene | 23.6 | 1.0 | 20 | 0 | 118 | 75 - 124 | | | | |
| 1,3-Dichlorobenzene | 21.34 | 1.0 | 20 | 0 | 107 | 80 - 119 | | | | |
| 1,3-Dichloropropane | 20.49 | 1.0 | 20 | 0 | 102 | 80 - 119 | | | | |
| 1,4-Dichlorobenzene | 21.21 | 1.0 | 20 | 0 | 106 | 79 - 118 | | | | |
| 2,2-Dichloropropane | 23.76 | 1.0 | 20 | 0 | 119 | 60 - 139 | | | | |
| 2-Butanone | 35.51 | 2.0 | 40 | 0 | 88.8 | 56 - 143 | | | | |
| 2-Chlorotoluene | 22.88 | 1.0 | 20 | 0 | 114 | 79 - 122 | | | | |
| 2-Hexanone | 37.56 | 2.0 | 40 | 0 | 93.9 | 57 - 139 | | | | |
| 4-Chlorotoluene | 23.63 | 1.0 | 20 | 0 | 118 | 78 - 122 | | | | |
| 4-Isopropyltoluene | 25.62 | 1.0 | 20 | 0 | 128 | 77 - 127 | | | | S |
| 4-Methyl-2-pentanone | 38.28 | 2.0 | 40 | 0 | 95.7 | 67 - 130 | | | | |
| Acetone | 36.76 | 2.0 | 40 | 0 | 91.9 | 39 - 160 | | | | |
| Benzene | 21.51 | 1.0 | 20 | 0 | 108 | 79 - 120 | | | | |
| Bromobenzene | 20.49 | 1.0 | 20 | 0 | 102 | 80 - 120 | | | | |
| Bromochloromethane | 19.97 | 1.0 | 20 | 0 | 99.8 | 78 - 123 | | | | |
| Bromodichloromethane | 22.21 | 1.0 | 20 | 0 | 111 | 79 - 125 | | | | |
| Bromoform | 19.95 | 1.0 | 20 | 0 | 99.8 | 66 - 130 | | | | |
| Bromomethane | 18.74 | 1.0 | 20 | 0 | 93.7 | 53 - 141 | | | | |

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**QC BATCH REPORT**

**Batch ID:** R439181 ( 0 ) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

**MS** Sample ID: **HS23060983-01MS** Units: **ug/L** Analysis Date: **17-Jun-2023 14:42**
Client ID: Run ID: **VOA9_439181** SeqNo: **7369119** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon disulfide | 48.68 | 2.0 | 40 | 0 | 122 | 64 - 133 | | | | |
| Carbon tetrachloride | 25.42 | 1.0 | 20 | 0 | 127 | 72 - 136 | | | | |
| Chlorobenzene | 21.87 | 1.0 | 20 | 0 | 109 | 82 - 118 | | | | |
| Chloroethane | 21.07 | 1.0 | 20 | 0 | 105 | 60 - 138 | | | | |
| Chloroform | 21.06 | 1.0 | 20 | 0 | 105 | 79 - 124 | | | | |
| Chloromethane | 14.84 | 1.0 | 20 | 0 | 74.2 | 50 - 139 | | | | |
| cis-1,2-Dichloroethene | 21.18 | 1.0 | 20 | 1.123 | 100 | 78 - 123 | | | | |
| cis-1,3-Dichloropropene | 18.94 | 1.0 | 20 | 0 | 94.7 | 75 - 124 | | | | |
| Dibromochloromethane | 21.76 | 1.0 | 20 | 0 | 109 | 74 - 126 | | | | |
| Dibromomethane | 22.28 | 1.0 | 20 | 0 | 111 | 79 - 123 | | | | |
| Dichlorodifluoromethane | 20.65 | 1.0 | 20 | 0 | 103 | 32 - 152 | | | | |
| Ethylbenzene | 23.59 | 1.0 | 20 | 0 | 118 | 79 - 121 | | | | |
| Hexachlorobutadiene | 24.29 | 1.0 | 20 | 0 | 121 | 66 - 134 | | | | |
| Isopropylbenzene | 25.97 | 1.0 | 20 | 0 | 130 | 72 - 131 | | | | |
| m,p-Xylene | 49.18 | 2.0 | 40 | 0 | 123 | 80 - 121 | | | | S |
| Methylene chloride | 19.97 | 2.0 | 20 | 0 | 99.8 | 74 - 124 | | | | |
| Naphthalene | 19.16 | 1.0 | 20 | 0 | 95.8 | 61 - 128 | | | | |
| n-Butylbenzene | 25.58 | 1.0 | 20 | 0 | 128 | 75 - 128 | | | | |
| n-Propylbenzene | 24.84 | 1.0 | 20 | 0 | 124 | 76 - 126 | | | | |
| o-Xylene | 23.62 | 1.0 | 20 | 0 | 118 | 78 - 122 | | | | |
| sec-Butylbenzene | 25.18 | 1.0 | 20 | 0 | 126 | 77 - 126 | | | | |
| Styrene | 22.81 | 1.0 | 20 | 0 | 114 | 78 - 123 | | | | |
| tert-Butylbenzene | 24.57 | 1.0 | 20 | 0 | 123 | 78 - 124 | | | | |
| Tetrachloroethene | 24.87 | 1.0 | 20 | 0 | 124 | 74 - 129 | | | | |
| Toluene | 22.56 | 1.0 | 20 | 0 | 113 | 80 - 121 | | | | |
| trans-1,2-Dichloroethene | 22.45 | 1.0 | 20 | 0 | 112 | 75 - 124 | | | | |
| trans-1,3-Dichloropropene | 18.54 | 1.0 | 20 | 0 | 92.7 | 73 - 127 | | | | |
| Trichloroethene | 22 | 1.0 | 20 | 0 | 110 | 79 - 123 | | | | |
| Trichlorofluoromethane | 26.34 | 1.0 | 20 | 0 | 132 | 65 - 141 | | | | |
| Vinyl chloride | 22.47 | 1.0 | 20 | 0 | 112 | 58 - 137 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *56.3* | *1.0* | *50* | *0* | *113* | *81 - 118* | | | | |
| *Surr: 4-Bromofluorobenzene* | *51.92* | *1.0* | *50* | *0* | *104* | *85 - 114* | | | | |
| *Surr: Dibromofluoromethane* | *52.8* | *1.0* | *50* | *0* | *106* | *80 - 119* | | | | |
| *Surr: Toluene-d8* | *53.99* | *1.0* | *50* | *0* | *108* | *89 - 112* | | | | |

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**QC BATCH REPORT**

**Batch ID:** R439181 ( 0 ) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

**MSD** Sample ID: **HS23060983-01MSD** Units: **ug/L** Analysis Date: **17-Jun-2023 15:04**
Client ID: Run ID: **VOA9_439181** SeqNo: **7369120** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 21.83 | 1.0 | 20 | 0 | 109 | 78 - 124 | 21.93 | 0.487 | 20 | |
| 1,1,1-Trichloroethane | 22.16 | 1.0 | 20 | 0 | 111 | 74 - 131 | 22.73 | 2.54 | 20 | |
| 1,1,2,2-Tetrachloroethane | 18.03 | 1.0 | 20 | 0 | 90.1 | 71 - 121 | 18.61 | 3.21 | 20 | |
| 1,1,2-Trichloroethane | 20.27 | 1.0 | 20 | 0 | 101 | 80 - 119 | 19.59 | 3.44 | 20 | |
| 1,1-Dichloroethane | 19.55 | 1.0 | 20 | 0 | 97.8 | 77 - 125 | 20.49 | 4.68 | 20 | |
| 1,1-Dichloroethene | 21.39 | 1.0 | 20 | 0 | 107 | 71 - 131 | 21.77 | 1.79 | 20 | |
| 1,1-Dichloropropene | 23.79 | 1.0 | 20 | 0 | 119 | 78 - 125 | 24.67 | 3.66 | 20 | |
| 1,2,3-Trichlorobenzene | 20.26 | 1.0 | 20 | 0 | 101 | 69 - 129 | 20.03 | 1.14 | 20 | |
| 1,2,3-Trichloropropane | 17.84 | 1.0 | 20 | 0 | 89.2 | 73 - 122 | 18.48 | 3.52 | 20 | |
| 1,2,4-Trichlorobenzene | 20.25 | 1.0 | 20 | 0 | 101 | 69 - 130 | 19.93 | 1.58 | 20 | |
| 1,2,4-Trimethylbenzene | 24.23 | 1.0 | 20 | 0 | 121 | 76 - 124 | 23.61 | 2.59 | 20 | |
| 1,2-Dibromo-3-chloropropane | 17.07 | 1.0 | 20 | 0 | 85.3 | 62 - 128 | 17.43 | 2.09 | 20 | |
| 1,2-Dibromoethane | 20.44 | 1.0 | 20 | 0 | 102 | 77 - 121 | 20.69 | 1.19 | 20 | |
| 1,2-Dichlorobenzene | 20.83 | 1.0 | 20 | 0 | 104 | 80 - 119 | 20.82 | 0.0611 | 20 | |
| 1,2-Dichloroethane | 22.71 | 1.0 | 20 | 0 | 114 | 73 - 128 | 23.32 | 2.64 | 20 | |
| 1,2-Dichloropropane | 20.24 | 1.0 | 20 | 0 | 101 | 78 - 122 | 20.53 | 1.43 | 20 | |
| 1,3,5-Trimethylbenzene | 23.87 | 1.0 | 20 | 0 | 119 | 75 - 124 | 23.6 | 1.13 | 20 | |
| 1,3-Dichlorobenzene | 21.04 | 1.0 | 20 | 0 | 105 | 80 - 119 | 21.34 | 1.4 | 20 | |
| 1,3-Dichloropropane | 20.24 | 1.0 | 20 | 0 | 101 | 80 - 119 | 20.49 | 1.21 | 20 | |
| 1,4-Dichlorobenzene | 21.04 | 1.0 | 20 | 0 | 105 | 79 - 118 | 21.21 | 0.8 | 20 | |
| 2,2-Dichloropropane | 23.48 | 1.0 | 20 | 0 | 117 | 60 - 139 | 23.76 | 1.17 | 20 | |
| 2-Butanone | 34.66 | 2.0 | 40 | 0 | 86.6 | 56 - 143 | 35.51 | 2.44 | 20 | |
| 2-Chlorotoluene | 22.51 | 1.0 | 20 | 0 | 113 | 79 - 122 | 22.88 | 1.62 | 20 | |
| 2-Hexanone | 38.75 | 2.0 | 40 | 0 | 96.9 | 57 - 139 | 37.56 | 3.11 | 20 | |
| 4-Chlorotoluene | 23.29 | 1.0 | 20 | 0 | 116 | 78 - 122 | 23.63 | 1.46 | 20 | |
| 4-Isopropyltoluene | 25.45 | 1.0 | 20 | 0 | 127 | 77 - 127 | 25.62 | 0.651 | 20 | S |
| 4-Methyl-2-pentanone | 40.02 | 2.0 | 40 | 0 | 100 | 67 - 130 | 38.28 | 4.45 | 20 | |
| Acetone | 37.11 | 2.0 | 40 | 0 | 92.8 | 39 - 160 | 36.76 | 0.954 | 20 | |
| Benzene | 20.82 | 1.0 | 20 | 0 | 104 | 79 - 120 | 21.51 | 3.24 | 20 | |
| Bromobenzene | 20.21 | 1.0 | 20 | 0 | 101 | 80 - 120 | 20.49 | 1.38 | 20 | |
| Bromochloromethane | 18.81 | 1.0 | 20 | 0 | 94.0 | 78 - 123 | 19.97 | 5.97 | 20 | |
| Bromodichloromethane | 21.58 | 1.0 | 20 | 0 | 108 | 79 - 125 | 22.21 | 2.91 | 20 | |
| Bromoform | 19.44 | 1.0 | 20 | 0 | 97.2 | 66 - 130 | 19.95 | 2.59 | 20 | |
| Bromomethane | 16.27 | 1.0 | 20 | 0 | 81.4 | 53 - 141 | 18.74 | 14.1 | 20 | |

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**QC BATCH REPORT**

**Batch ID:** R439181 ( 0 ) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

**MSD** Sample ID: **HS23060983-01MSD** Units: **ug/L** Analysis Date: **17-Jun-2023 15:04**
Client ID: Run ID: **VOA9_439181** SeqNo: **7369120** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon disulfide | 47.37 | 2.0 | 40 | 0 | 118 | 64 - 133 | 48.68 | 2.72 | 20 | |
| Carbon tetrachloride | 24.58 | 1.0 | 20 | 0 | 123 | 72 - 136 | 25.42 | 3.38 | 20 | |
| Chlorobenzene | 21.77 | 1.0 | 20 | 0 | 109 | 82 - 118 | 21.87 | 0.468 | 20 | |
| Chloroethane | 17.05 | 1.0 | 20 | 0 | 85.2 | 60 - 138 | 21.07 | 21.1 | 20 | R |
| Chloroform | 20.08 | 1.0 | 20 | 0 | 100 | 79 - 124 | 21.06 | 4.76 | 20 | |
| Chloromethane | 14.36 | 1.0 | 20 | 0 | 71.8 | 50 - 139 | 14.84 | 3.31 | 20 | |
| cis-1,2-Dichloroethene | 20.58 | 1.0 | 20 | 1.123 | 97.3 | 78 - 123 | 21.18 | 2.87 | 20 | |
| cis-1,3-Dichloropropene | 18.64 | 1.0 | 20 | 0 | 93.2 | 75 - 124 | 18.94 | 1.59 | 20 | |
| Dibromochloromethane | 21.56 | 1.0 | 20 | 0 | 108 | 74 - 126 | 21.76 | 0.942 | 20 | |
| Dibromomethane | 21.15 | 1.0 | 20 | 0 | 106 | 79 - 123 | 22.28 | 5.2 | 20 | |
| Dichlorodifluoromethane | 20.01 | 1.0 | 20 | 0 | 100 | 32 - 152 | 20.65 | 3.12 | 20 | |
| Ethylbenzene | 23.2 | 1.0 | 20 | 0 | 116 | 79 - 121 | 23.59 | 1.66 | 20 | |
| Hexachlorobutadiene | 23.66 | 1.0 | 20 | 0 | 118 | 66 - 134 | 24.29 | 2.62 | 20 | |
| Isopropylbenzene | 25.34 | 1.0 | 20 | 0 | 127 | 72 - 131 | 25.97 | 2.42 | 20 | |
| m,p-Xylene | 48.44 | 2.0 | 40 | 0 | 121 | 80 - 121 | 49.18 | 1.52 | 20 | S |
| Methylene chloride | 19.8 | 2.0 | 20 | 0 | 99.0 | 74 - 124 | 19.97 | 0.818 | 20 | |
| Naphthalene | 20.52 | 1.0 | 20 | 0 | 103 | 61 - 128 | 19.16 | 6.84 | 20 | |
| n-Butylbenzene | 25.8 | 1.0 | 20 | 0 | 129 | 75 - 128 | 25.58 | 0.876 | 20 | S |
| n-Propylbenzene | 24.67 | 1.0 | 20 | 0 | 123 | 76 - 126 | 24.84 | 0.659 | 20 | |
| o-Xylene | 23.72 | 1.0 | 20 | 0 | 119 | 78 - 122 | 23.62 | 0.39 | 20 | |
| sec-Butylbenzene | 25.45 | 1.0 | 20 | 0 | 127 | 77 - 126 | 25.18 | 1.04 | 20 | S |
| Styrene | 22.89 | 1.0 | 20 | 0 | 114 | 78 - 123 | 22.81 | 0.36 | 20 | |
| tert-Butylbenzene | 24.1 | 1.0 | 20 | 0 | 120 | 78 - 124 | 24.57 | 1.94 | 20 | |
| Tetrachloroethene | 24.79 | 1.0 | 20 | 0 | 124 | 74 - 129 | 24.87 | 0.32 | 20 | |
| Toluene | 22.74 | 1.0 | 20 | 0 | 114 | 80 - 121 | 22.56 | 0.825 | 20 | |
| trans-1,2-Dichloroethene | 21.12 | 1.0 | 20 | 0 | 106 | 75 - 124 | 22.45 | 6.12 | 20 | |
| trans-1,3-Dichloropropene | 18.38 | 1.0 | 20 | 0 | 91.9 | 73 - 127 | 18.54 | 0.899 | 20 | |
| Trichloroethene | 20.37 | 1.0 | 20 | 0 | 102 | 79 - 123 | 22 | 7.7 | 20 | |
| Trichlorofluoromethane | 25.56 | 1.0 | 20 | 0 | 128 | 65 - 141 | 26.34 | 3 | 20 | |
| Vinyl chloride | 21.99 | 1.0 | 20 | 0 | 110 | 58 - 137 | 22.47 | 2.19 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *55.04* | *1.0* | *50* | *0* | *110* | *81 - 118* | *56.3* | *2.26* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *52.07* | *1.0* | *50* | *0* | *104* | *85 - 114* | *51.92* | *0.304* | *20* | |
| *Surr: Dibromofluoromethane* | *51.13* | *1.0* | *50* | *0* | *102* | *80 - 119* | *52.8* | *3.21* | *20* | |
| *Surr: Toluene-d8* | *55.2* | *1.0* | *50* | *0* | *110* | *89 - 112* | *53.99* | *2.21* | *20* | |

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**QC BATCH REPORT**

| Batch ID: R439181 ( 0 ) | Instrument: VOA9 | Method: VOLATILES ORGANICS BY METHOD 8260C |
|---|---|---|

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS23061096-01 | HS23061096-02 | HS23061096-03 | HS23061096-04 |
| HS23061096-05 | HS23061096-06 | HS23061096-07 | HS23061096-08 |
| HS23061096-09 | HS23061096-10 | | |

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**QC BATCH REPORT**

**Batch ID: R439270 ( 0 )** **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

**MBLK** Sample ID: **VBLKW-230619** Units: **ug/L** Analysis Date: **19-Jun-2023 12:52**
Client ID: Run ID: **VOA9_439270** SeqNo: **7370929** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 0.50 | 1.0 | | | | | | | | U |
| *Surr: 1,2-Dichloroethane-d4* | *56.37* | *1.0* | *50* | *0* | *113* | *81 - 118* | | | | |
| *Surr: 4-Bromofluorobenzene* | *47.64* | *1.0* | *50* | *0* | *95.3* | *85 - 114* | | | | |
| *Surr: Dibromofluoromethane* | *50.42* | *1.0* | *50* | *0* | *101* | *80 - 119* | | | | |
| *Surr: Toluene-d8* | *55.84* | *1.0* | *50* | *0* | *112* | *89 - 112* | | | | |

**LCS** Sample ID: **VLCSW-230619** Units: **ug/L** Analysis Date: **19-Jun-2023 12:07**
Client ID: Run ID: **VOA9_439270** SeqNo: **7370928** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 20.05 | 1.0 | 20 | 0 | 100 | 79 - 123 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *53.39* | *1.0* | *50* | *0* | *107* | *81 - 118* | | | | |
| *Surr: 4-Bromofluorobenzene* | *51.34* | *1.0* | *50* | *0* | *103* | *85 - 114* | | | | |
| *Surr: Dibromofluoromethane* | *49.94* | *1.0* | *50* | *0* | *99.9* | *80 - 119* | | | | |
| *Surr: Toluene-d8* | *48.93* | *1.0* | *50* | *0* | *97.9* | *89 - 112* | | | | |

**MS** Sample ID: **HS23061152-01MS** Units: **ug/L** Analysis Date: **19-Jun-2023 14:44**
Client ID: Run ID: **VOA9_439270** SeqNo: **7370932** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 21.35 | 1.0 | 20 | 0 | 107 | 79 - 123 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *54.02* | *1.0* | *50* | *0* | *108* | *81 - 118* | | | | |
| *Surr: 4-Bromofluorobenzene* | *50.76* | *1.0* | *50* | *0* | *102* | *85 - 114* | | | | |
| *Surr: Dibromofluoromethane* | *50.87* | *1.0* | *50* | *0* | *102* | *80 - 119* | | | | |
| *Surr: Toluene-d8* | *56.05* | *1.0* | *50* | *0* | *112* | *89 - 112* | | | | S |

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

**QC BATCH REPORT**

**Batch ID:** R439270 ( 0 ) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

**MSD** Sample ID: **HS23061152-01MSD** Units: **ug/L** Analysis Date: **19-Jun-2023 15:07**
Client ID: Run ID: **VOA9_439270** SeqNo: **7370933** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 20.7 | 1.0 | 20 | 0 | 103 | 79 - 123 | 21.35 | 3.12 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *54.67* | *1.0* | *50* | *0* | *109* | *81 - 118* | *54.02* | *1.2* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *51.1* | *1.0* | *50* | *0* | *102* | *85 - 114* | *50.76* | *0.67* | *20* | |
| *Surr: Dibromofluoromethane* | *51.09* | *1.0* | *50* | *0* | *102* | *80 - 119* | *50.87* | *0.441* | *20* | |
| *Surr: Toluene-d8* | *55.87* | *1.0* | *50* | *0* | *112* | *89 - 112* | *56.05* | *0.319* | *20* | |

**The following samples were analyzed in this batch:** HS23061096-01 HS23061096-04 HS23061096-07

**ALS Houston, US** Date: 28-Jun-23

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** **HS23061096**

**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 |

**ALS Houston, US** Date: 28-Jun-23

## CERTIFICATIONS,ACCREDITATIONS & LICENSES

| Agency | Number | Expire Date |
|---|---|---|
| Arkansas | 88-00356 | 27-Mar-2024 |
| California | 2919; 2024 | 30-Apr-2024 |
| Dept of Defense | L23-358 | 31-May-2025 |
| Florida | E87611-37 | 30-Jun-2023 |
| Illinois | 2000322023-11 | 30-Jun-2024 |
| Kansas | E-10352; 2022-2023 | 31-Jul-2023 |
| Louisiana | 03087, 2022-2023 | 30-Jun-2023 |
| Maryland | 343, 2022-2023 | 30-Jun-2023 |
| North Carolina | 624-2023 | 31-Dec-2023 |
| Oklahoma | 2022-141 | 31-Aug-2023 |
| Texas | T104704231-23-31 | 30-Apr-2024 |
| Utah | TX026932022-13 | 31-Jul-2023 |

**ALS Houston, US** Date: 28-Jun-23

## Sample Receipt Checklist

**Work Order ID:** HS23061096 **Date/Time Received:** 15-Jun-2023 09:40

**Client Name:** Bhate Environmental **Received by:** Corey Grandits

**Completed By:** /S/ Pablo Marinez (eSignature) 16-Jun-2023 15:40 (Date/Time) **Reviewed by:** (eSignature) (Date/Time)

Matrices: **WATER** Carrier name: **FedEx Priority Overnight**

| | | | |
|---|---|---|---|
| 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 IDs:CLIENT |
| 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): | 1.2°C/1.1°C UC/C | IR 31 |
| Cooler(s)/Kit(s): | 45534 | |
| Date/Time sample(s) sent to storage: | 6/16/23 15:45 | |

| | | | |
|---|---|---|---|
| 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:

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

Page: ____ of ____

Project/Phase No: JVPCIBH.0001

COC Number(1): ____

LIMS Number: ____

Facility/Base I.D.: LHAAP

Project/Site Name: LHAAP / Site 18/24

Client Name:

Collected by: Scott Beesinger

| Field Sample ID (30 Characters Max) | Date Collected (dd-mmm-yyyy) | Time Collected (Military) (hhmm) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AWD3_061423 | 14 JUN 2023 | 0655 | - | N | | WG | 5 | X | X | X | | | | | | | |
| 18CPTMW12SW_061423 | 14 JUN 2023 | 0740 | - | N | | WG | 6 | X | X | X | X | | | | | | |
| 18CPTMW12DW_061423 | 14 JUN 2023 | 0825 | - | N | | WG | 6 | X | X | X | X | | | | | | |
| MW7_061423 | 14 JUN 2023 | 0910 | | N | | WG | 5 | X | X | | X | | | | | | |
| 130_061423 | 14 JUN 2023 | 0955 | | N | | WG | 5 | X | X | X | | | | | | | |
| 130_061423_A | 14 JUN 2023 | 0955 | - | FD | | WG | 5 | X | X | X | | | | | | | |
| MW8_061423 | 14 JUN 2023 | 1040 | - | N | | WG | 5 | X | X | | X | | | | | | |
| 18WW06_061423 | 14 JUN 2023 | 1130 | - | N | | WG | 5 | X | X | | X | | | | | | |
| 18WW02_061423 | 14 JUN 2023 | 1215 | - | N | | WG | 6 | X | X | X | X | | | | | | |
| TRIP BLANK | 14 JUN 2023 | | - | TB | | W | 2 | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

Sample Analysis Requested (5) | Quality Assurance Samples (6)

HS23061096

Bhate Environmental Associates, Inc.
LHAAP /Site18/24

COMMENTS: STANDARD TAT

4/5939 IR31 1.2°

Custody Transfers Prior to Receipt by Laboratory

| | Relinquished by (Signed) | Date | Time | Received by (signed) | Date | Time |
|---|---|---|---|---|---|---|
| 1. | Scott Beesinger | 6/14/23 | 1330 | [signature] | 6.14.23 | 0946 |
| 2. | | | | | | |
| 3. | | | | | | |

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: Dane Wacasey Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

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

pie Analysis Requested: Analytical method requested and number of containers provided for each.

ality 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

June 27, 2023 Service Request No:E2300571

James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099

**Laboratory Results for: HS23061096**

Dear James,

Enclosed are the results of the sample(s) submitted to our laboratory June 19, 2023
For your reference, these analyses have been assigned our service request number **E2300571.**

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 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

James Guin

# 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

**ALS Environmental**

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request No.:** | E2300571 |
| **Project:** | HS23061096 | **Date Received:** | 06/19/23 |
| **Sample Matrix:** | Ground 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 II. When appropriate to the method, method blank results have been reported with each analytical test.

### Sample Receipt

Nine samples were received for analysis at ALS Environmental in Houston on 06/19/23.

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:**

EQ2300303: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

*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:**E2300571
**Project:** HS23061096

## SAMPLE CROSS-REFERENCE

| SAMPLE # | CLIENT SAMPLE ID | DATE | TIME |
|---|---|---|---|
| E2300571-001 | AWD3_061423 | 6/14/2023 | 0655 |
| E2300571-002 | 18CPTMW12SW_061423 | 6/14/2023 | 0740 |
| E2300571-003 | 18CPTMW12DW_061423 | 6/14/2023 | 0825 |
| E2300571-004 | MW7_061423 | 6/14/2023 | 0910 |
| E2300571-005 | 130_061423 | 6/14/2023 | 0955 |
| E2300571-006 | 130_061423_a | 6/14/2023 | 0955 |
| E2300571-007 | MW8_061423 | 6/14/2023 | 1040 |
| E2300571-008 | 18WW06_061423 | 6/14/2023 | 1130 |
| E2300571-009 | 18WW02_061423 | 6/14/2023 | 1215 |

# Service Request Summary

**Folder #:** **E2300571**
Client Name: ALS Environmental - US
Project Name: HS23061096
Project Number:

**Report To:** James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/19/23
Internal Due Date: 6/29/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23061096
EDD: BASIC_WQC_CASNo_LOD

9 120 mL-Plastic Bottle Natural WM Unpreserved
**Location:** EHRMS-AirArch 1
**Pressure Gas:**

| Lab Samp No. | Client Samp No | Matrix | Collected | Semivoa GCMS: ClO4 DOD/6850 |
|---|---|---|---|---|
| E2300571-001 | AWD3_061423 | Ground Water | 06/14/23 0655 | **IV** |
| E2300571-002 | 18CPTMW12SW_061423 | Ground Water | 06/14/23 0740 | **IV** |
| E2300571-003 | 18CPTMW12DW_061423 | Ground Water | 06/14/23 0825 | **IV** |
| E2300571-004 | MW7_061423 | Ground Water | 06/14/23 0910 | **IV** |
| E2300571-005 | 130_061423 | Ground Water | 06/14/23 0955 | **IV** |
| E2300571-006 | 130_061423_a | Ground Water | 06/14/23 0955 | **IV** |
| E2300571-007 | MW8_061423 | Ground Water | 06/14/23 1040 | **IV** |
| E2300571-008 | 18WW06_061423 | Ground Water | 06/14/23 1130 | **IV** |
| E2300571-009 | 18WW02_061423 | Ground Water | 06/14/23 1215 | **IV** |

# Service Request Summary

**Folder #:** **E2300571**
Client Name: ALS Environmental - US
Project Name: HS23061096
Project Number:

**Report To:** James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/19/23
Internal Due Date: 6/29/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23061096
EDD: BASIC_WQC_CASNo_LOD

9 120 mL-Plastic Bottle Natural WM Unpreserved
**Location:** EHRMS-AirArch 1
**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 |

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

## State Certifications, Accreditations, and Licenses

| Agency | Number | Expire Date |
|---|---|---|
| Arizona Department of Health Services | AZ0793_2024 | 5/27/2024 |
| Arkansas Department of Environmental Quality | 88-00356 | 3/27/2024 |
| Department of Defense | L22-90 | 3/31/2024 |
| Department of Defense | L23-358 | 5/31/2025 |
| Florida Department of Health | E87611-36 | 6/30/2023 |
| Florida Department of Health | E87611-36 | 6/30/2023 |
| Florida Department of Health | E87611-36 | 6/30/2023 |
| Florida Department of Health | E87611-36 | 6/30/2023 |
| Illinois Environmental Protection Agency | 2000322023-11 | 6/30/2024 |
| Kansas Department of Health and Environment | E-10352 2022-2023 | 7/31/2023 |
| Louisiana Department of Environmental Quality | 03087-2022 | 6/30/2023 |
| Louisiana Department of Health and Hospitals | LA028-2023 | 12/31/2023 |
| Maine Department of Health and Human Services | 2022017 | 6/5/2024 |
| Maryland Department of the Environment | 343 | 6/30/2023 |
| Minnesota Department of Health | 2368363 | 12/31/2023 |
| Nebraska Department of Health and Human Services | NE-OS-25-13 | 4/30/2024 |
| Nevada Department of Conservation and Natural Resources | TX026932023-1 | 7/31/2023 |
| New Hampshire Environmental Laboratory Accreditation Program | 209423 | 4/24/2024 |
| New Jersey Department of Environmental Protection | TX008-2023 | 6/30/2023 |
| New York Department of Health | 11707 | 3/31/2024 |
| Oklahoma Department of Environmental Quality | 2022-141 | 8/31/2023 |
| Pennsylvania Department of Environmental Protection | 68-03441-016 | 6/30/2023 |
| Perry Johnson Laboratory Accreditation | L22-91 | 3/31/2024 |
| Tennessee Department of Environment and Concervation | TN04016-2023 | 4/30/2024 |
| Texas Commision on Environmental Quality | T104704231-23-30 | 4/30/2024 |
| Utah Department of Health Environmental Laboratory Certification | TX026932022-13 | 7/31/2023 |
| Washington Department of Ecology | C819-22 | 11/14/2023 |

# 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

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
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# Subcontract Chain of Custody

**SAMPLING STATE:** Texas **COC ID:** 22065

**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:** HS23061096
**TSR:** Holly Tignac

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|---|---|---|---|---|
| | ANALYSIS REQUESTED | | | DUE DATE |
| 1. | **HS23061096-01** | **AWD3_061423** | **Groundwater** | **14 Jun 2023 06:55** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 29 Jun 2023 |
| 2. | **HS23061096-02** | **18CPTMW12SW_061423** | **Groundwater** | **14 Jun 2023 07:40** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 29 Jun 2023 |
| 3. | **HS23061096-03** | **18CPTMW12DW_061423** | **Groundwater** | **14 Jun 2023 08:25** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 29 Jun 2023 |
| 4. | **HS23061096-04** | **MW7_061423** | **Groundwater** | **14 Jun 2023 09:10** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 29 Jun 2023 |
| 5. | **HS23061096-05** | **130_061423** | **Groundwater** | **14 Jun 2023 09:55** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 29 Jun 2023 |
| 6. | **HS23061096-06** | **130_061423_a** | **Groundwater** | **14 Jun 2023 09:55** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 29 Jun 2023 |
| 7. | **HS23061096-07** | **MW8_061423** | **Groundwater** | **14 Jun 2023 10:40** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 29 Jun 2023 |
| 8. | **HS23061096-08** | **18WW06_061423** | **Groundwater** | **14 Jun 2023 11:30** |

# Subcontract Chain of Custody

**SAMPLING STATE:** Texas **COC ID:** 22065

| | 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 | | | 29 Jun 2023 |
| **9.** | **HS23061096-09** | **18WW02_061423** | **Groundwater** | **14 Jun 2023 12:15** |
| | 6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD | | | 29 Jun 2023 |

**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: _____

Received By: _____ Date/Time: 6-19-23 1202

Cooler ID(s): _____ Temperature(s): _____

ALS Environmental

# Cooler Receipt Form

Project Chemist: JS

Client/Project: ALS

Thermometer ID: IR31

Date/Time Received: 6.14.23 Initials: IG

Date/Time Logged in: 6.14.23 Initials: JG

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ☒ Courier (ALS) ○ Client

2. Samples received in: ☒ Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ○ Yes ☒ No
   Were they intact? ○ Yes ○ No ☒ N/A
   Were they signed and dated? ○ Yes ○ No ☒ N/A
   If yes, how many and where?

4. Packing Material: ○ Inserts ☑ Baggies ○ Bubble Wrap ○ Gel Packs ☑ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ○ No Location of Sampling:

| Cooler Tracking Number | COC ID | Date Opened | Time Opened | Opened By | Temp. °C | Temp Blank? |
|---|---|---|---|---|---|---|
| NA | | 6.14.23 | 1200 | IG | 4.8 | ☑ |
| | | | | | | ☐ |
| | | | | | | ☐ |
| | | | | | | ☐ |

6. Were custody papers properly filled out (ink, signed, dated, etc)? ☒ Yes ○ No
7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ☒ Yes ○ No
8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ☒ Yes ○ No
9. Were appropriate bottles/containers and volumes received for the requested tests? ☒ Yes ○ No
10. Did sample labels and tags agree with custody documents? ☒ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label:

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#:** 421764 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
**Team:** Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 6/21/23 08:37

| # | Lab Code | Client ID | B# | Method /Test | pH | Cl | Matrix | Amt. Ext. | Sample Description |
|---|---|---|---|---|---|---|---|---|---|
| 1 | E2300570-001 | 102_061323 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 2 | E2300570-002 | 18CPTMW03SW_061323 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 3 | E2300570-003 | 120_061323 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 4 | E2300570-004 | MW14_061323 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 5 | E2300570-005 | 18CPTMW22DW_061323 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 6 | E2300570-006 | 18CPTMW22R_061323 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 7 | E2300570-007 | 18CPTMW22SW_061323 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 8 | E2300571-001 | AWD3_061423 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 9 | E2300571-002 | 18CPTMW12SW_061423 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 10 | E2300571-003 | 18CPTMW12DW_061423 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 11 | E2300571-004 | MW7_061423 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 12 | E2300571-005 | 130_061423 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 13 | E2300571-006 | 130_061423_a | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 14 | E2300571-007 | MW8_061423 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 15 | E2300571-008 | 18WW06_061423 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 16 | E2300571-009 | 18WW02_061423 | .01 | 6850/ClO4 DOD | | | Ground Water | 10mL | |
| 17 | E2300589-001 | LM-23-06-DTW-02(I) | .01 | 6850/ClO4 | | | Water | 10mL | |
| 18 | EQ2300303-01 | MB | | 6850/ClO4 DOD | | | Liquid | 10mL | |
| 19 | EQ2300303-02 | LCS | | 6850/ClO4 DOD | | | Liquid | 10mL | |
| 20 | EQ2300303-03 | DLCS | | 6850/ClO4 DOD | | | Liquid | 10mL | |
| 21 | R2305214-008 | 2306091036C ST-3-486 | .01 | 6850/ClO4 | | | Water | 10mL | |
| 22 | R2305402-005 | 2306121431C ST-3-666 | .01 | 6850/ClO4 | | | Water | 10mL | |
| 23 | R2305457-006 | 2306141413C BW-7-211 | .01 | 6850/ClO4 | | | Water | 10mL | |

## Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300303-02 1.00µL EQ2300303-03 1.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 227244 Logbook Ref: Perchlorate Internal Standard Expires On: 07/31/2023

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| E2300570-001 | 100.00µL | E2300570-002 | 100.00µL | E2300570-003 | 100.00µL | E2300570-004 | 100.00µL | E2300570-005 | 100.00µL | E2300570-006 | 100.00µL |
| E2300570-007 | 100.00µL | E2300571-001 | 100.00µL | E2300571-002 | 100.00µL | E2300571-003 | 100.00µL | E2300571-004 | 100.00µL | E2300571-005 | 100.00µL |
| E2300571-006 | 100.00µL | E2300571-007 | 100.00µL | E2300571-008 | 100.00µL | E2300571-009 | 100.00µL | E2300589-001 | 100.00µL | EQ2300303-01 | 100.00µL |
| EQ2300303-02 | 100.00µL | EQ2300303-03 | 100.00µL | R2305214-008 | 100.00µL | R2305402-005 | 100.00µL | R2305457-006 | 100.00µL | | |

# *Preparation Information Benchsheet*

**Prep Run#:** 421764 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
**Team:** Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 6/21/23 08:37

## Preparation Materials

| | | | | | |
|---|---|---|---|---|---|
| Water HPLC Grade | HPLC water 5/18/23CG (229314) | 6850 Amber Glass screw vial | 2mL Screw Top Vial (221894) | 6850 0.45um syringe filters | 6850 0.45um syringe (229005) |
| 6850 Luer-Lok Syringes | luer-lock syringes (228116) | | | | |

## Preparation Steps

Step: Preparation
Started: 6/21/23 08:37
Finished: 6/23/23 13:26
By: XMI
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**
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:** | E2300571 |
| **Project:** | HS23061096 | **Date Collected:** | 6/14/23 0655 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 6/19/23 |
| **Sample Name:** | AWD3_061423 | **Units:** | µg/L |
| **Lab Code:** | E2300571-001 | **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 | **9.18** | | 0.100 | 0.0500 | 0.0250 | 1 | 6/21/23 | 6/26/23 11:29 | 421764 | 808705 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300571 |
| **Project:** | HS23061096 | **Date Collected:** | 6/14/23 0740 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 6/19/23 |
| **Sample Name:** | 18CPTMW12SW_061423 | **Units:** | µg/L |
| **Lab Code:** | E2300571-002 | **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 | **9.79** | | 0.100 | 0.0500 | 0.0250 | 1 | 6/21/23 | 6/26/23 11:35 | 421764 | 808705 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300571 |
| **Project:** | HS23061096 | **Date Collected:** | 6/14/23 0825 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 6/19/23 |
| **Sample Name:** | 18CPTMW12DW_061423 | **Units:** | µg/L |
| **Lab Code:** | E2300571-003 | **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 | 0.100 | 0.0500 | 0.0250 | 1 | 6/21/23 | 6/26/23 11:40 | 421764 | 808705 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300571 |
| **Project:** | HS23061096 | **Date Collected:** | 6/14/23 0910 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 6/19/23 |
| **Sample Name:** | MW7_061423 | **Units:** | µg/L |
| **Lab Code:** | E2300571-004 | **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 | **18100** | | 100 | 50.0 | 25.0 | 1000 | 6/21/23 | 6/26/23 11:46 | 421764 | 808705 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300571 |
| **Project:** | HS23061096 | **Date Collected:** | 6/14/23 0955 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 6/19/23 |
| **Sample Name:** | 130_061423 | **Units:** | µg/L |
| **Lab Code:** | E2300571-005 | **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 | **1.17** | | 0.100 | 0.0500 | 0.0250 | 1 | 6/21/23 | 6/26/23 11:51 | 421764 | 808705 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300571 |
| **Project:** | HS23061096 | **Date Collected:** | 6/14/23 0955 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 6/19/23 |
| **Sample Name:** | 130_061423_a | **Units:** | µg/L |
| **Lab Code:** | E2300571-006 | **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 | **1.37** | | 0.100 | 0.0500 | 0.0250 | 1 | 6/21/23 | 6/26/23 12:02 | 421764 | 808705 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300571 |
| **Project:** | HS23061096 | **Date Collected:** | 6/14/23 1040 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 6/19/23 |
| **Sample Name:** | MW8_061423 | **Units:** | µg/L |
| **Lab Code:** | E2300571-007 | **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 | **4460** | | 50.0 | 25.0 | 12.5 | 500 | 6/21/23 | 6/26/23 12:08 | 421764 | 808705 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300571 |
| **Project:** | HS23061096 | **Date Collected:** | 6/14/23 1130 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 6/19/23 |
| **Sample Name:** | 18WW06_061423 | **Units:** | µg/L |
| **Lab Code:** | E2300571-008 | **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 | 6/21/23 | 6/26/23 14:52 | 421764 | 808705 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300571 |
| **Project:** | HS23061096 | **Date Collected:** | 6/14/23 1215 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 6/19/23 |
| **Sample Name:** | 18WW02_061423 | **Units:** | µg/L |
| **Lab Code:** | E2300571-009 | **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 | **0.0496** | J | 0.100 | 0.0500 | 0.0250 | 1 | 6/21/23 | 6/26/23 14:58 | 421764 | 808705 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300571 |
| **Project:** | HS23061096 | **Date Collected:** | NA |
| **Sample Matrix:** | Ground Water | **Date Received:** | NA |
| **Sample Name:** | Method Blank | **Units:** | µg/L |
| **Lab Code:** | EQ2300303-01 | **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 | 6/21/23 | 6/26/23 09:50 | 421764 | 808705 | |

# 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
**Project:** HS23061096
**Sample Matrix:** Ground Water

**Service Request:** E2300571
**Date Analyzed:** 6/26/23

## Lab Control Sample Summary
## Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

**Analytical Method:** 6850
**Prep Method:** Method

**Units:** µg/L
**Basis:** NA

**Extraction Lot:** 421764

| | Lab Control Sample EQ2300303-02 | | | Duplicate Lab Control Sample EQ2300303-03 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Analyte Name** | **Result** | **Spike Amount** | **% Rec** | **Result** | **Spike Amount** | **% Rec** | **% Rec Limits** | **RPD** | **RPD Limit** |
| Perchlorate | 0.0934 | 0.100 | 93 | 0.0922 | 0.100 | 92 | 84 - 119 | 1 | 15 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300571 |
| **Project:** | HS23061096 | **Date Collected:** | NA |
| **Sample Matrix:** | Ground Water | **Date Received:** | NA |
| **Sample Name:** | Lab Control Sample | **Units:** | µg/L |
| **Lab Code:** | EQ2300303-02 | **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 | **0.0934** | J | 0.100 | 0.0500 | 0.0250 | 1 | 6/21/23 | 6/26/23 15:09 | 421764 | 808705 | |

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ALS Environmental - US | **Service Request:** | E2300571 |
| **Project:** | HS23061096 | **Date Collected:** | NA |
| **Sample Matrix:** | Ground Water | **Date Received:** | NA |
| **Sample Name:** | Duplicate Lab Control Sample | **Units:** | µg/L |
| **Lab Code:** | EQ2300303-03 | **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 | **0.0922** | J | 0.100 | 0.0500 | 0.0250 | 1 | 6/21/23 | 6/26/23 10:01 | 421764 | 808705 | |

# HS23061096-MSVOA-SW8260

ALS WO# HS23061096

01196328

right solutions.
right partner.

Form 1

# Organic Analysis Data Sheet

## Volatiles by EPA 8260

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/22/2023

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

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-01

**AWD3_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 06:55 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 1,1,1-Trichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 1,1,2,2-Tetrachloroethane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 1,1,2-Trichloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 1,1-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 1,1-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 1,1-Dichloropropene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 1,2,3-Trichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 1,2,3-Trichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 1,2,4-Trichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 1,2,4-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 1,2-Dibromo-3-chloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 1,2-Dibromoethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 1,2-Dichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 1,2-Dichloroethane | ug/L | 2.5 | | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 1,2-Dichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 1,3,5-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 1,3-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 1,3-Dichloropropane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 1,4-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 2,2-Dichloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 2-Butanone | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 2-Chlorotoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 2-Hexanone | ug/L | 2.0 | U | 1.0 | 2.0 | 2.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 4-Chlorotoluene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 4-Isopropyltoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| 4-Methyl-2-pentanone | ug/L | 2.0 | U | 0.70 | 2.0 | 2.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Acetone | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Benzene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Bromobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Bromochloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Bromodichloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Bromoform | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-01

**AWD3_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 06:55 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromomethane | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Carbon disulfide | ug/L | 2.0 | U | 0.60 | 2.0 | 2.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Carbon tetrachloride | ug/L | 16 | | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Chlorobenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Chloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Chloroform | ug/L | 0.95 | J | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Chloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| cis-1,2-Dichloroethene | ug/L | 47 | | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| cis-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Dibromochloromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Dibromomethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Dichlorodifluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Ethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Hexachlorobutadiene | ug/L | 1.0 | U | 1.0 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Isopropylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| m,p-Xylene | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Methylene chloride | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Naphthalene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| n-Butylbenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| n-Propylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| o-Xylene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| sec-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Styrene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| tert-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Tetrachloroethene | ug/L | 1.6 | | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Toluene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| trans-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| trans-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Trichloroethene | ug/L | 360 | | 2.0 | 10 | 10 | 10 | 06/19/23 16:14 | VOA9_439270 | U061916.D |
| Trichlorofluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |
| Vinyl chloride | ug/L | 0.66 | J | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:03 | VOA9_439181 | U061727.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-02

**18CPTMW12SW_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 07:40 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 1,1,1-Trichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 1,1,2,2-Tetrachloroethane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 1,1,2-Trichloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 1,1-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 1,1-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 1,1-Dichloropropene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 1,2,3-Trichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 1,2,3-Trichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 1,2,4-Trichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 1,2,4-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 1,2-Dibromo-3-chloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 1,2-Dibromoethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 1,2-Dichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 1,2-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 1,2-Dichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 1,3,5-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 1,3-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 1,3-Dichloropropane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 1,4-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 2,2-Dichloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 2-Butanone | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 2-Chlorotoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 2-Hexanone | ug/L | 2.0 | U | 1.0 | 2.0 | 2.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 4-Chlorotoluene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 4-Isopropyltoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| 4-Methyl-2-pentanone | ug/L | 2.0 | U | 0.70 | 2.0 | 2.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Acetone | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Benzene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Bromobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Bromochloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Bromodichloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Bromoform | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-02

**18CPTMW12SW_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 07:40 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromomethane | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Carbon disulfide | ug/L | 2.0 | U | 0.60 | 2.0 | 2.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Carbon tetrachloride | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Chlorobenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Chloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Chloroform | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Chloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| cis-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| cis-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Dibromochloromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Dibromomethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Dichlorodifluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Ethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Hexachlorobutadiene | ug/L | 1.0 | U | 1.0 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Isopropylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| m,p-Xylene | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Methylene chloride | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Naphthalene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| n-Butylbenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| n-Propylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| o-Xylene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| sec-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Styrene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| tert-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Tetrachloroethene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Toluene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| trans-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| trans-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Trichloroethene | ug/L | 2.2 | | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Trichlorofluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |
| Vinyl chloride | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:56 | VOA9_439181 | U061716.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-03

**18CPTMW12DW_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 08:25 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 1,1,1-Trichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 1,1,2,2-Tetrachloroethane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 1,1,2-Trichloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 1,1-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 1,1-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 1,1-Dichloropropene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 1,2,3-Trichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 1,2,3-Trichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 1,2,4-Trichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 1,2,4-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 1,2-Dibromo-3-chloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 1,2-Dibromoethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 1,2-Dichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 1,2-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 1,2-Dichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 1,3,5-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 1,3-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 1,3-Dichloropropane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 1,4-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 2,2-Dichloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 2-Butanone | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 2-Chlorotoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 2-Hexanone | ug/L | 2.0 | U | 1.0 | 2.0 | 2.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 4-Chlorotoluene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 4-Isopropyltoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| 4-Methyl-2-pentanone | ug/L | 2.0 | U | 0.70 | 2.0 | 2.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Acetone | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Benzene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Bromobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Bromochloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Bromodichloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Bromoform | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-03

**18CPTMW12DW_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 08:25 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromomethane | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Carbon disulfide | ug/L | 2.0 | U | 0.60 | 2.0 | 2.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Carbon tetrachloride | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Chlorobenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Chloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Chloroform | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Chloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| cis-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| cis-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Dibromochloromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Dibromomethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Dichlorodifluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Ethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Hexachlorobutadiene | ug/L | 1.0 | U | 1.0 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Isopropylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| m,p-Xylene | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Methylene chloride | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Naphthalene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| n-Butylbenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| n-Propylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| o-Xylene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| sec-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Styrene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| tert-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Tetrachloroethene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Toluene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| trans-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| trans-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Trichloroethene | ug/L | 1.6 | | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Trichlorofluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |
| Vinyl chloride | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:19 | VOA9_439181 | U061717.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-04

**MW7_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 09:10 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 1,1,1-Trichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 1,1,2,2-Tetrachloroethane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 1,1,2-Trichloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 1,1-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 1,1-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 1,1-Dichloropropene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 1,2,3-Trichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 1,2,3-Trichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 1,2,4-Trichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 1,2,4-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 1,2-Dibromo-3-chloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 1,2-Dibromoethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 1,2-Dichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 1,2-Dichloroethane | ug/L | 19 | | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 1,2-Dichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 1,3,5-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 1,3-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 1,3-Dichloropropane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 1,4-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 2,2-Dichloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 2-Butanone | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 2-Chlorotoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 2-Hexanone | ug/L | 2.0 | U | 1.0 | 2.0 | 2.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 4-Chlorotoluene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 4-Isopropyltoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| 4-Methyl-2-pentanone | ug/L | 2.0 | U | 0.70 | 2.0 | 2.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Acetone | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Benzene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Bromobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Bromochloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Bromodichloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Bromoform | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-04

**MW7_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 09:10 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromomethane | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Carbon disulfide | ug/L | 2.0 | U | 0.60 | 2.0 | 2.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Carbon tetrachloride | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Chlorobenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Chloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Chloroform | ug/L | 7.7 | | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Chloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| cis-1,2-Dichloroethene | ug/L | 9.5 | | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| cis-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Dibromochloromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Dibromomethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Dichlorodifluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Ethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Hexachlorobutadiene | ug/L | 1.0 | U | 1.0 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Isopropylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| m,p-Xylene | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Methylene chloride | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Naphthalene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| n-Butylbenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| n-Propylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| o-Xylene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| sec-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Styrene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| tert-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Tetrachloroethene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Toluene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| trans-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| trans-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Trichloroethene | ug/L | 860 | | 5.0 | 25 | 25 | 25 | 06/19/23 16:36 | VOA9_439270 | U061917.D |
| Trichlorofluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |
| Vinyl chloride | ug/L | 0.41 | J | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 21:48 | VOA9_439181 | U061729.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-05

**130_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 09:55 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 1,1,1-Trichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 1,1,2,2-Tetrachloroethane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 1,1,2-Trichloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 1,1-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 1,1-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 1,1-Dichloropropene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 1,2,3-Trichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 1,2,3-Trichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 1,2,4-Trichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 1,2,4-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 1,2-Dibromo-3-chloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 1,2-Dibromoethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 1,2-Dichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 1,2-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 1,2-Dichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 1,3,5-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 1,3-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 1,3-Dichloropropane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 1,4-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 2,2-Dichloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 2-Butanone | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 2-Chlorotoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 2-Hexanone | ug/L | 2.0 | U | 1.0 | 2.0 | 2.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 4-Chlorotoluene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 4-Isopropyltoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| 4-Methyl-2-pentanone | ug/L | 2.0 | U | 0.70 | 2.0 | 2.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Acetone | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Benzene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Bromobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Bromochloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Bromodichloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Bromoform | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-05

**130_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 09:55 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromomethane | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Carbon disulfide | ug/L | 2.0 | U | 0.60 | 2.0 | 2.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Carbon tetrachloride | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Chlorobenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Chloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Chloroform | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Chloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| cis-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| cis-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Dibromochloromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Dibromomethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Dichlorodifluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Ethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Hexachlorobutadiene | ug/L | 1.0 | U | 1.0 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Isopropylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| m,p-Xylene | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Methylene chloride | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Naphthalene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| n-Butylbenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| n-Propylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| o-Xylene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| sec-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Styrene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| tert-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Tetrachloroethene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Toluene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| trans-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| trans-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Trichloroethene | ug/L | 1.1 | | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Trichlorofluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |
| Vinyl chloride | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 17:41 | VOA9_439181 | U061718.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-06

**130_061423_a**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 09:55 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 1,1,1-Trichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 1,1,2,2-Tetrachloroethane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 1,1,2-Trichloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 1,1-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 1,1-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 1,1-Dichloropropene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 1,2,3-Trichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 1,2,3-Trichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 1,2,4-Trichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 1,2,4-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 1,2-Dibromo-3-chloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 1,2-Dibromoethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 1,2-Dichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 1,2-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 1,2-Dichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 1,3,5-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 1,3-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 1,3-Dichloropropane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 1,4-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 2,2-Dichloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 2-Butanone | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 2-Chlorotoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 2-Hexanone | ug/L | 2.0 | U | 1.0 | 2.0 | 2.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 4-Chlorotoluene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 4-Isopropyltoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| 4-Methyl-2-pentanone | ug/L | 2.0 | U | 0.70 | 2.0 | 2.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Acetone | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Benzene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Bromobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Bromochloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Bromodichloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Bromoform | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-06

**130_061423_a**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 09:55 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromomethane | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Carbon disulfide | ug/L | 2.0 | U | 0.60 | 2.0 | 2.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Carbon tetrachloride | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Chlorobenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Chloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Chloroform | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Chloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| cis-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| cis-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Dibromochloromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Dibromomethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Dichlorodifluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Ethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Hexachlorobutadiene | ug/L | 1.0 | U | 1.0 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Isopropylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| m,p-Xylene | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Methylene chloride | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Naphthalene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| n-Butylbenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| n-Propylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| o-Xylene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| sec-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Styrene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| tert-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Tetrachloroethene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Toluene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| trans-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| trans-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Trichloroethene | ug/L | 1.1 | | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Trichlorofluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |
| Vinyl chloride | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:03 | VOA9_439181 | U061719.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-07

**MW8_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 10:40 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 1,1,1-Trichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 1,1,2,2-Tetrachloroethane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 1,1,2-Trichloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 1,1-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 1,1-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 1,1-Dichloropropene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 1,2,3-Trichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 1,2,3-Trichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 1,2,4-Trichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 1,2,4-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 1,2-Dibromo-3-chloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 1,2-Dibromoethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 1,2-Dichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 1,2-Dichloroethane | ug/L | 5.9 | | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 1,2-Dichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 1,3,5-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 1,3-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 1,3-Dichloropropane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 1,4-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 2,2-Dichloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 2-Butanone | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 2-Chlorotoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 2-Hexanone | ug/L | 2.0 | U | 1.0 | 2.0 | 2.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 4-Chlorotoluene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 4-Isopropyltoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| 4-Methyl-2-pentanone | ug/L | 2.0 | U | 0.70 | 2.0 | 2.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Acetone | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Benzene | ug/L | 0.87 | J | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Bromobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Bromochloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Bromodichloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Bromoform | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-07

**MW8_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 10:40 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromomethane | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Carbon disulfide | ug/L | 2.0 | U | 0.60 | 2.0 | 2.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Carbon tetrachloride | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Chlorobenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Chloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Chloroform | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Chloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| cis-1,2-Dichloroethene | ug/L | 14 | | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| cis-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Dibromochloromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Dibromomethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Dichlorodifluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Ethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Hexachlorobutadiene | ug/L | 1.0 | U | 1.0 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Isopropylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| m,p-Xylene | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Methylene chloride | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Naphthalene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| n-Butylbenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| n-Propylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| o-Xylene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| sec-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Styrene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| tert-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Tetrachloroethene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Toluene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| trans-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| trans-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Trichloroethene | ug/L | 360 | | 1.0 | 5.0 | 5.0 | 5 | 06/19/23 16:58 | VOA9_439270 | U061918.D |
| Trichlorofluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |
| Vinyl chloride | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 20:18 | VOA9_439181 | U061725.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-08

**18WW06_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 11:30 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 1,1,1-Trichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 1,1,2,2-Tetrachloroethane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 1,1,2-Trichloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 1,1-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 1,1-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 1,1-Dichloropropene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 1,2,3-Trichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 1,2,3-Trichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 1,2,4-Trichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 1,2,4-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 1,2-Dibromo-3-chloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 1,2-Dibromoethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 1,2-Dichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 1,2-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 1,2-Dichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 1,3,5-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 1,3-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 1,3-Dichloropropane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 1,4-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 2,2-Dichloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 2-Butanone | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 2-Chlorotoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 2-Hexanone | ug/L | 2.0 | U | 1.0 | 2.0 | 2.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 4-Chlorotoluene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 4-Isopropyltoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| 4-Methyl-2-pentanone | ug/L | 2.0 | U | 0.70 | 2.0 | 2.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Acetone | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Benzene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Bromobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Bromochloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Bromodichloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Bromoform | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-08

**18WW06_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 11:30 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromomethane | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Carbon disulfide | ug/L | 2.0 | U | 0.60 | 2.0 | 2.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Carbon tetrachloride | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Chlorobenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Chloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Chloroform | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Chloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| cis-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| cis-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Dibromochloromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Dibromomethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Dichlorodifluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Ethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Hexachlorobutadiene | ug/L | 1.0 | U | 1.0 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Isopropylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| m,p-Xylene | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Methylene chloride | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Naphthalene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| n-Butylbenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| n-Propylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| o-Xylene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| sec-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Styrene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| tert-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Tetrachloroethene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Toluene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| trans-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| trans-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Trichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Trichlorofluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |
| Vinyl chloride | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:26 | VOA9_439181 | U061720.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-09

**18WW02_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 12:15 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 1,1,1-Trichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 1,1,2,2-Tetrachloroethane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 1,1,2-Trichloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 1,1-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 1,1-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 1,1-Dichloropropene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 1,2,3-Trichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 1,2,3-Trichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 1,2,4-Trichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 1,2,4-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 1,2-Dibromo-3-chloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 1,2-Dibromoethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 1,2-Dichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 1,2-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 1,2-Dichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 1,3,5-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 1,3-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 1,3-Dichloropropane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 1,4-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 2,2-Dichloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 2-Butanone | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 2-Chlorotoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 2-Hexanone | ug/L | 2.0 | U | 1.0 | 2.0 | 2.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 4-Chlorotoluene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 4-Isopropyltoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| 4-Methyl-2-pentanone | ug/L | 2.0 | U | 0.70 | 2.0 | 2.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Acetone | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Benzene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Bromobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Bromochloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Bromodichloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Bromoform | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-09

**18WW02_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 12:15 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromomethane | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Carbon disulfide | ug/L | 2.0 | U | 0.60 | 2.0 | 2.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Carbon tetrachloride | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Chlorobenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Chloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Chloroform | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Chloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| cis-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| cis-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Dibromochloromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Dibromomethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Dichlorodifluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Ethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Hexachlorobutadiene | ug/L | 1.0 | U | 1.0 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Isopropylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| m,p-Xylene | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Methylene chloride | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Naphthalene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| n-Butylbenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| n-Propylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| o-Xylene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| sec-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Styrene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| tert-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Tetrachloroethene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Toluene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| trans-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| trans-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Trichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Trichlorofluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |
| Vinyl chloride | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 18:48 | VOA9_439181 | U061721.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-10

**TRIP BLANK**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 00:00 | 06/15/23 09:40 | Water | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 1,1,1-Trichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 1,1,2,2-Tetrachloroethane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 1,1,2-Trichloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 1,1-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 1,1-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 1,1-Dichloropropene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 1,2,3-Trichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 1,2,3-Trichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 1,2,4-Trichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 1,2,4-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 1,2-Dibromo-3-chloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 1,2-Dibromoethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 1,2-Dichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 1,2-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 1,2-Dichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 1,3,5-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 1,3-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 1,3-Dichloropropane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 1,4-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 2,2-Dichloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 2-Butanone | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 2-Chlorotoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 2-Hexanone | ug/L | 2.0 | U | 1.0 | 2.0 | 2.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 4-Chlorotoluene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 4-Isopropyltoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| 4-Methyl-2-pentanone | ug/L | 2.0 | U | 0.70 | 2.0 | 2.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Acetone | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Benzene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Bromobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Bromochloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Bromodichloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Bromoform | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

HS23061096-10

**TRIP BLANK**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 00:00 | 06/15/23 09:40 | Water | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromomethane | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Carbon disulfide | ug/L | 2.0 | U | 0.60 | 2.0 | 2.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Carbon tetrachloride | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Chlorobenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Chloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Chloroform | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Chloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| cis-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| cis-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Dibromochloromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Dibromomethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Dichlorodifluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Ethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Hexachlorobutadiene | ug/L | 1.0 | U | 1.0 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Isopropylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| m,p-Xylene | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Methylene chloride | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Naphthalene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| n-Butylbenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| n-Propylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| o-Xylene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| sec-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Styrene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| tert-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Tetrachloroethene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Toluene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| trans-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| trans-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Trichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Trichlorofluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |
| Vinyl chloride | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 16:34 | VOA9_439181 | U061715.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

| VBLKW-230617 | Collected | Received | Matrix | Basis |
|---|---|---|---|---|
| **VBLKW-230617** | NA | NA | Aqueous | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 1,1,1-Trichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 1,1,2,2-Tetrachloroethane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 1,1,2-Trichloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 1,1-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 1,1-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 1,1-Dichloropropene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 1,2,3-Trichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 1,2,3-Trichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 1,2,4-Trichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 1,2,4-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 1,2-Dibromo-3-chloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 1,2-Dibromoethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 1,2-Dichlorobenzene | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 1,2-Dichloroethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 1,2-Dichloropropane | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 1,3,5-Trimethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 1,3-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 1,3-Dichloropropane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 1,4-Dichlorobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 2,2-Dichloropropane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 2-Butanone | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 2-Chlorotoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 2-Hexanone | ug/L | 2.0 | U | 1.0 | 2.0 | 2.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 4-Chlorotoluene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 4-Isopropyltoluene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| 4-Methyl-2-pentanone | ug/L | 2.0 | U | 0.70 | 2.0 | 2.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Acetone | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Benzene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Bromobenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Bromochloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Bromodichloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Bromoform | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

| VBLKW-230617 | Collected | Received | Matrix | Basis |
|---|---|---|---|---|
| **VBLKW-230617** | NA | NA | Aqueous | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromomethane | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Carbon disulfide | ug/L | 2.0 | U | 0.60 | 2.0 | 2.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Carbon tetrachloride | ug/L | 1.0 | U | 0.50 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Chlorobenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Chloroethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Chloroform | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Chloromethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| cis-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| cis-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Dibromochloromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Dibromomethane | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Dichlorodifluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Ethylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Hexachlorobutadiene | ug/L | 1.0 | U | 1.0 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Isopropylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| m,p-Xylene | ug/L | 2.0 | U | 0.50 | 2.0 | 2.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Methylene chloride | ug/L | 2.0 | U | 0.40 | 2.0 | 2.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Naphthalene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| n-Butylbenzene | ug/L | 1.0 | U | 0.40 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| n-Propylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| o-Xylene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| sec-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Styrene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| tert-Butylbenzene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Tetrachloroethene | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Toluene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| trans-1,2-Dichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| trans-1,3-Dichloropropene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Trichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Trichlorofluoromethane | ug/L | 1.0 | U | 0.30 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |
| Vinyl chloride | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/17/23 13:35 | VOA9_439181 | U061707.D |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

## Volatiles by EPA 8260

| VBLKW-230619 | Collected | Received | Matrix | Basis |
|---|---|---|---|---|
| **VBLKW-230619** | NA | NA | Aqueous | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile |
|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | ug/L | 1.0 | U | 0.20 | 1.0 | 1.0 | 1 | 06/19/23 12:52 | VOA9_439270 | U061907.D |

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Form 2

# System Monitoring Compound Recovery

## Volatiles by EPA 8260

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/22/2023

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 /Site18/24

Workorder HS23061096

RunID VOA9-439181

## Volatiles by EPA 8260

| CCB-CCB | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| CCB | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 55.19 | 50 | 110 | | 80-120 |
| 4-Bromofluorobenzene | 48.14 | 50 | 96.3 | | 80-120 |
| Dibromofluoromethane | 50.93 | 50 | 102 | | 80-120 |
| Toluene-d8 | 54.43 | 50 | 109 | | 80-120 |

| CCV-CCV | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| CCV | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 53.27 | 50 | 107 | | 80-120 |
| 4-Bromofluorobenzene | 53.68 | 50 | 107 | | 80-120 |
| Dibromofluoromethane | 49.79 | 50 | 99.6 | | 80-120 |
| Toluene-d8 | 49.89 | 50 | 99.8 | | 80-120 |

| HS23060983-01MS | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| BatchQC | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 56.3 | 50 | 113 | | 81-118 |
| 4-Bromofluorobenzene | 51.92 | 50 | 104 | | 85-114 |
| Dibromofluoromethane | 52.8 | 50 | 106 | | 80-119 |
| Toluene-d8 | 53.99 | 50 | 108 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP /Site18/24

Workorder HS23061096

RunID VOA9-439181

## Volatiles by EPA 8260

| HS23060983-01MSD | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| BatchQC | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 55.04 | 50 | 110 | | 81-118 |
| 4-Bromofluorobenzene | 52.07 | 50 | 104 | | 85-114 |
| Dibromofluoromethane | 51.13 | 50 | 102 | | 80-119 |
| Toluene-d8 | 55.2 | 50 | 110 | | 89-112 |

| HS23061096-01 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| AWD3_061423 | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 59 | 50 | 117 | | 81-118 |
| 4-Bromofluorobenzene | 48 | 50 | 95.5 | | 85-114 |
| Dibromofluoromethane | 52 | 50 | 105 | | 80-119 |
| Toluene-d8 | 54 | 50 | 108 | | 89-112 |

| HS23061096-02 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 18CPTMW12SW_061423 | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 57 | 50 | 114 | | 81-118 |
| 4-Bromofluorobenzene | 48 | 50 | 95.4 | | 85-114 |
| Dibromofluoromethane | 51 | 50 | 101 | | 80-119 |
| Toluene-d8 | 55 | 50 | 111 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP /Site18/24

Workorder HS23061096

RunID VOA9-439181

## Volatiles by EPA 8260

| HS23061096-03 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 18CPTMW12DW_061423 | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 56 | 50 | 113 | | 81-118 |
| 4-Bromofluorobenzene | 48 | 50 | 95.8 | | 85-114 |
| Dibromofluoromethane | 51 | 50 | 103 | | 80-119 |
| Toluene-d8 | 54 | 50 | 109 | | 89-112 |

| HS23061096-04 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| MW7_061423 | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 58 | 50 | 115 | | 81-118 |
| 4-Bromofluorobenzene | 48 | 50 | 95.4 | | 85-114 |
| Dibromofluoromethane | 52 | 50 | 104 | | 80-119 |
| Toluene-d8 | 55 | 50 | 109 | | 89-112 |

| HS23061096-05 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 130_061423 | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 58 | 50 | 116 | | 81-118 |
| 4-Bromofluorobenzene | 48 | 50 | 95.2 | | 85-114 |
| Dibromofluoromethane | 52 | 50 | 104 | | 80-119 |
| Toluene-d8 | 54 | 50 | 108 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP /Site18/24

Workorder HS23061096

RunID VOA9-439181

## Volatiles by EPA 8260

| HS23061096-06 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 130_061423_a | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 59 | 50 | 117 | | 81-118 |
| 4-Bromofluorobenzene | 49 | 50 | 98.0 | | 85-114 |
| Dibromofluoromethane | 52 | 50 | 103 | | 80-119 |
| Toluene-d8 | 55 | 50 | 110 | | 89-112 |

| HS23061096-07 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| MW8_061423 | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 57 | 50 | 113 | | 81-118 |
| 4-Bromofluorobenzene | 47 | 50 | 93.3 | | 85-114 |
| Dibromofluoromethane | 52 | 50 | 104 | | 80-119 |
| Toluene-d8 | 55 | 50 | 110 | | 89-112 |

| HS23061096-08 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 18WW06_061423 | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 57 | 50 | 114 | | 81-118 |
| 4-Bromofluorobenzene | 47 | 50 | 94.5 | | 85-114 |
| Dibromofluoromethane | 52 | 50 | 103 | | 80-119 |
| Toluene-d8 | 55 | 50 | 111 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP /Site18/24

Workorder: HS23061096

RunID: VOA9-439181

## Volatiles by EPA 8260

| HS23061096-09 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 18WW02_061423 | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 58 | 50 | 116 | | 81-118 |
| 4-Bromofluorobenzene | 49 | 50 | 97.6 | | 85-114 |
| Dibromofluoromethane | 53 | 50 | 105 | | 80-119 |
| Toluene-d8 | 54 | 50 | 108 | | 89-112 |

| HS23061096-10 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| TRIP BLANK | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 58 | 50 | 116 | | 81-118 |
| 4-Bromofluorobenzene | 48 | 50 | 95.4 | | 85-114 |
| Dibromofluoromethane | 52 | 50 | 104 | | 80-119 |
| Toluene-d8 | 55 | 50 | 110 | | 89-112 |

| VBLKW-230617 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| VBLKW-230617 | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 56.43 | 50 | 113 | | 81-118 |
| 4-Bromofluorobenzene | 48.33 | 50 | 96.7 | | 85-114 |
| Dibromofluoromethane | 49.13 | 50 | 98.3 | | 80-119 |
| Toluene-d8 | 54.66 | 50 | 109 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

| | | | |
|---|---|---|---|
| **Client** | Bhate Environmental Associates, Inc. | Workorder | |
| **Project** | LHAAP /Site18/24 | **HS23061096** | |

RunID

## Volatiles by EPA 8260

VOA9-439181

| VLCSW-230617 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| **VLCSW-230617** | 06/17/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 52.21 | 50 | 104 | | 81-118 |
| 4-Bromofluorobenzene | 50.94 | 50 | 102 | | 85-114 |
| Dibromofluoromethane | 48.68 | 50 | 97.4 | | 80-119 |
| Toluene-d8 | 46.74 | 50 | 93.5 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP /Site18/24

Workorder: HS23061096

RunID: VOA9-439270

## Volatiles by EPA 8260

| CCB-CCB | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| CCB | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 55.12 | 50 | 110 | | 80-120 |
| 4-Bromofluorobenzene | 49.47 | 50 | 98.9 | | 80-120 |
| Dibromofluoromethane | 49.93 | 50 | 99.9 | | 80-120 |
| Toluene-d8 | 55.73 | 50 | 111 | | 80-120 |

| CCV-CCV | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| CCV | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 56.99 | 50 | 114 | | 80-120 |
| 4-Bromofluorobenzene | 56.97 | 50 | 114 | | 80-120 |
| Dibromofluoromethane | 52.3 | 50 | 105 | | 80-120 |
| Toluene-d8 | 50.28 | 50 | 101 | | 80-120 |

| HS23061096-01 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| AWD3_061423 | 06/19/23 | %REC | 10 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 560 | 500 | 113 | | 81-118 |
| 4-Bromofluorobenzene | 490 | 500 | 98.1 | | 85-114 |
| Dibromofluoromethane | 510 | 500 | 102 | | 80-119 |
| Toluene-d8 | 550 | 500 | 111 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP /Site18/24

Workorder HS23061096

RunID VOA9-439270

## Volatiles by EPA 8260

| HS23061096-04 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| MW7_061423 | 06/19/23 | %REC | 25 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 1400 | 1250 | 113 | | 81-118 |
| 4-Bromofluorobenzene | 1200 | 1250 | 97.7 | | 85-114 |
| Dibromofluoromethane | 1300 | 1250 | 102 | | 80-119 |
| Toluene-d8 | 1400 | 1250 | 108 | | 89-112 |

| HS23061096-07 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| MW8_061423 | 06/19/23 | %REC | 5 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 290 | 250 | 114 | | 81-118 |
| 4-Bromofluorobenzene | 230 | 250 | 93.8 | | 85-114 |
| Dibromofluoromethane | 250 | 250 | 101 | | 80-119 |
| Toluene-d8 | 280 | 250 | 111 | | 89-112 |

| HS23061152-01MS | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| BatchQC | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 54.02 | 50 | 108 | | 81-118 |
| 4-Bromofluorobenzene | 50.76 | 50 | 102 | | 85-114 |
| Dibromofluoromethane | 50.87 | 50 | 102 | | 80-119 |
| Toluene-d8 | 56.05 | 50 | 112 | | 89-112 |

# Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP /Site18/24

Workorder: HS23061096

RunID: VOA9-439270

## Volatiles by EPA 8260

| HS23061152-01MSD | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| BatchQC | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 54.67 | 50 | 109 | | 81-118 |
| 4-Bromofluorobenzene | 51.1 | 50 | 102 | | 85-114 |
| Dibromofluoromethane | 51.09 | 50 | 102 | | 80-119 |
| Toluene-d8 | 55.87 | 50 | 112 | | 89-112 |

| VBLKW-230619 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| VBLKW-230619 | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 56.37 | 50 | 113 | | 81-118 |
| 4-Bromofluorobenzene | 47.64 | 50 | 95.3 | | 85-114 |
| Dibromofluoromethane | 50.42 | 50 | 101 | | 80-119 |
| Toluene-d8 | 55.84 | 50 | 112 | | 89-112 |

| VLCSW-230619 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| VLCSW-230619 | 06/19/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 53.39 | 50 | 107 | | 81-118 |
| 4-Bromofluorobenzene | 51.34 | 50 | 103 | | 85-114 |
| Dibromofluoromethane | 49.94 | 50 | 99.9 | | 80-119 |
| Toluene-d8 | 48.93 | 50 | 97.9 | | 89-112 |

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right partner.

Form 3A

# Matrix Spike/Spike Duplicate Recovery

## Volatiles by EPA 8260

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/22/2023

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

# Form 3A - Matrix Spike/Spike Duplicate Recovery

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

RunID VOA9-439181

## Volatiles by EPA 8260

| BatchQC (HS23060983-01) | | | | HS23060983-01MS | | | | HS23060983-01MSD | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Matrix: Aqueous | | | Run Date | 06/17/23 | | | | 06/17/23 | | | | | | |
| Result Units: ug/L | | | Run Time | 14:42 | | | | 15:04 | | | | | | |
| | | | Data File | U061710.D | | | | U061711.D | | | | | | |
| 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 | 21.93 | 20 | 110 | | 21.83 | 20 | 109 | | 20 | 0.487 | |
| 1,1,1-Trichloroethane | 74-131 | 1 | 0 | 22.73 | 20 | 114 | | 22.16 | 20 | 111 | | 20 | 2.54 | |
| 1,1,2,2-Tetrachloroethane | 71-121 | 1 | 0 | 18.61 | 20 | 93 | | 18.03 | 20 | 90 | | 20 | 3.21 | |
| 1,1,2-Trichloroethane | 80-119 | 1 | 0 | 19.59 | 20 | 98 | | 20.27 | 20 | 101 | | 20 | 3.44 | |
| 1,1-Dichloroethane | 77-125 | 1 | 0 | 20.49 | 20 | 102 | | 19.55 | 20 | 98 | | 20 | 4.68 | |
| 1,1-Dichloroethene | 71-131 | 1 | 0 | 21.77 | 20 | 109 | | 21.39 | 20 | 107 | | 20 | 1.79 | |
| 1,1-Dichloropropene | 78-125 | 1 | 0 | 24.67 | 20 | 123 | | 23.79 | 20 | 119 | | 20 | 3.66 | |
| 1,2,3-Trichlorobenzene | 69-129 | 1 | 0 | 20.03 | 20 | 100 | | 20.26 | 20 | 101 | | 20 | 1.14 | |
| 1,2,3-Trichloropropane | 73-122 | 1 | 0 | 18.48 | 20 | 92 | | 17.84 | 20 | 89 | | 20 | 3.52 | |
| 1,2,4-Trichlorobenzene | 69-130 | 1 | 0 | 19.93 | 20 | 100 | | 20.25 | 20 | 101 | | 20 | 1.58 | |
| 1,2,4-Trimethylbenzene | 76-124 | 1 | 0 | 23.61 | 20 | 118 | | 24.23 | 20 | 121 | | 20 | 2.59 | |
| 1,2-Dibromo-3-chloropropane | 62-128 | 1 | 0 | 17.43 | 20 | 87 | | 17.07 | 20 | 85 | | 20 | 2.09 | |
| 1,2-Dibromoethane | 77-121 | 1 | 0 | 20.69 | 20 | 103 | | 20.44 | 20 | 102 | | 20 | 1.19 | |
| 1,2-Dichlorobenzene | 80-119 | 1 | 0 | 20.82 | 20 | 104 | | 20.83 | 20 | 104 | | 20 | 0.0611 | |
| 1,2-Dichloroethane | 73-128 | 1 | 0 | 23.32 | 20 | 117 | | 22.71 | 20 | 114 | | 20 | 2.64 | |
| 1,2-Dichloropropane | 78-122 | 1 | 0 | 20.53 | 20 | 103 | | 20.24 | 20 | 101 | | 20 | 1.43 | |
| 1,3,5-Trimethylbenzene | 75-124 | 1 | 0 | 23.6 | 20 | 118 | | 23.87 | 20 | 119 | | 20 | 1.13 | |
| 1,3-Dichlorobenzene | 80-119 | 1 | 0 | 21.34 | 20 | 107 | | 21.04 | 20 | 105 | | 20 | 1.4 | |
| 1,3-Dichloropropane | 80-119 | 1 | 0 | 20.49 | 20 | 102 | | 20.24 | 20 | 101 | | 20 | 1.21 | |
| 1,4-Dichlorobenzene | 79-118 | 1 | 0 | 21.21 | 20 | 106 | | 21.04 | 20 | 105 | | 20 | 0.8 | |
| 2,2-Dichloropropane | 60-139 | 1 | 0 | 23.76 | 20 | 119 | | 23.48 | 20 | 117 | | 20 | 1.17 | |
| 2-Butanone | 56-143 | 1 | 0 | 35.51 | 40 | 89 | | 34.66 | 40 | 87 | | 20 | 2.44 | |
| 2-Chlorotoluene | 79-122 | 1 | 0 | 22.88 | 20 | 114 | | 22.51 | 20 | 113 | | 20 | 1.62 | |
| 2-Hexanone | 57-139 | 1 | 0 | 37.56 | 40 | 94 | | 38.75 | 40 | 97 | | 20 | 3.11 | |
| 4-Chlorotoluene | 78-122 | 1 | 0 | 23.63 | 20 | 118 | | 23.29 | 20 | 116 | | 20 | 1.46 | |
| 4-Isopropyltoluene | 77-127 | 1 | 0 | 25.62 | 20 | 128 | | 25.45 | 20 | 127 | | 20 | 0.651 | |
| 4-Methyl-2-pentanone | 67-130 | 1 | 0 | 38.28 | 40 | 96 | | 40.02 | 40 | 100 | | 20 | 4.45 | |
| Acetone | 39-160 | 1 | 0 | 36.76 | 40 | 92 | | 37.11 | 40 | 93 | | 20 | 0.954 | |
| Benzene | 79-120 | 1 | 0 | 21.51 | 20 | 108 | | 20.82 | 20 | 104 | | 20 | 3.24 | |
| Bromobenzene | 80-120 | 1 | 0 | 20.49 | 20 | 102 | | 20.21 | 20 | 101 | | 20 | 1.38 | |
| Bromochloromethane | 78-123 | 1 | 0 | 19.97 | 20 | 100 | | 18.81 | 20 | 94 | | 20 | 5.97 | |
| Bromodichloromethane | 79-125 | 1 | 0 | 22.21 | 20 | 111 | | 21.58 | 20 | 108 | | 20 | 2.91 | |
| Bromoform | 66-130 | 1 | 0 | 19.95 | 20 | 100 | | 19.44 | 20 | 97 | | 20 | 2.59 | |
| Bromomethane | 53-141 | 1 | 0 | 18.74 | 20 | 94 | | 16.27 | 20 | 81 | | 20 | 14.1 | |

Q - %Recovery / RPD Flag  * - %Recovery / RPD Outside Limits  OL - Outside Limits  %R - %Recovery  DF - Dilution Factor  Amt - Amount (weight or volume)

# Form 3A - Matrix Spike/Spike Duplicate Recovery

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

RunID VOA9-439181

## Volatiles by EPA 8260

| BatchQC (HS23060983-01) | | | | HS23060983-01MS | | | | HS23060983-01MSD | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Matrix: Aqueous | | | Run Date | 06/17/23 | | | | 06/17/23 | | | | | | |
| Result Units: ug/L | | | Run Time | 14:42 | | | | 15:04 | | | | | | |
| | | | Data File | U061710.D | | | | U061711.D | | | | | | |
| Analyte | %R Limits | DF | Sample Result | MS Result | Spike Added | %R | Q | MSD Result | Spike Added | %R | Q | RPD Limit | RPD | Q |
| Carbon disulfide | 64-133 | 1 | 0 | 48.68 | 40 | 122 | | 47.37 | 40 | 118 | | 20 | 2.72 | |
| Carbon tetrachloride | 72-136 | 1 | 0 | 25.42 | 20 | 127 | | 24.58 | 20 | 123 | | 20 | 3.38 | |
| Chlorobenzene | 82-118 | 1 | 0 | 21.87 | 20 | 109 | | 21.77 | 20 | 109 | | 20 | 0.468 | |
| Chloroethane | 60-138 | 1 | 0 | 21.07 | 20 | 105 | | 17.05 | 20 | 85 | | 20 | 21.1 | |
| Chloroform | 79-124 | 1 | 0 | 21.06 | 20 | 105 | | 20.08 | 20 | 100 | | 20 | 4.76 | |
| Chloromethane | 50-139 | 1 | 0 | 14.84 | 20 | 74 | | 14.36 | 20 | 72 | | 20 | 3.31 | |
| cis-1,2-Dichloroethene | 78-123 | 1 | 1.123 | 21.18 | 20 | 100 | | 20.58 | 20 | 97 | | 20 | 2.87 | |
| cis-1,3-Dichloropropene | 75-124 | 1 | 0 | 18.94 | 20 | 95 | | 18.64 | 20 | 93 | | 20 | 1.59 | |
| Dibromochloromethane | 74-126 | 1 | 0 | 21.76 | 20 | 109 | | 21.56 | 20 | 108 | | 20 | 0.942 | |
| Dibromomethane | 79-123 | 1 | 0 | 22.28 | 20 | 111 | | 21.15 | 20 | 106 | | 20 | 5.2 | |
| Dichlorodifluoromethane | 32-152 | 1 | 0 | 20.65 | 20 | 103 | | 20.01 | 20 | 100 | | 20 | 3.12 | |
| Ethylbenzene | 79-121 | 1 | 0 | 23.59 | 20 | 118 | | 23.2 | 20 | 116 | | 20 | 1.66 | |
| Hexachlorobutadiene | 66-134 | 1 | 0 | 24.29 | 20 | 121 | | 23.66 | 20 | 118 | | 20 | 2.62 | |
| Isopropylbenzene | 72-131 | 1 | 0 | 25.97 | 20 | 130 | | 25.34 | 20 | 127 | | 20 | 2.42 | |
| m,p-Xylene | 80-121 | 1 | 0 | 49.18 | 40 | 123 | | 48.44 | 40 | 121 | | 20 | 1.52 | |
| Methylene chloride | 74-124 | 1 | 0 | 19.97 | 20 | 100 | | 19.8 | 20 | 99 | | 20 | 0.818 | |
| Naphthalene | 61-128 | 1 | 0 | 19.16 | 20 | 96 | | 20.52 | 20 | 103 | | 20 | 6.84 | |
| n-Butylbenzene | 75-128 | 1 | 0 | 25.58 | 20 | 128 | | 25.8 | 20 | 129 | | 20 | 0.876 | |
| n-Propylbenzene | 76-126 | 1 | 0 | 24.84 | 20 | 124 | | 24.67 | 20 | 123 | | 20 | 0.659 | |
| o-Xylene | 78-122 | 1 | 0 | 23.62 | 20 | 118 | | 23.72 | 20 | 119 | | 20 | 0.39 | |
| sec-Butylbenzene | 77-126 | 1 | 0 | 25.18 | 20 | 126 | | 25.45 | 20 | 127 | | 20 | 1.04 | |
| Styrene | 78-123 | 1 | 0 | 22.81 | 20 | 114 | | 22.89 | 20 | 114 | | 20 | 0.36 | |
| tert-Butylbenzene | 78-124 | 1 | 0 | 24.57 | 20 | 123 | | 24.1 | 20 | 120 | | 20 | 1.94 | |
| Tetrachloroethene | 74-129 | 1 | 0 | 24.87 | 20 | 124 | | 24.79 | 20 | 124 | | 20 | 0.32 | |
| Toluene | 80-121 | 1 | 0 | 22.56 | 20 | 113 | | 22.74 | 20 | 114 | | 20 | 0.825 | |
| trans-1,2-Dichloroethene | 75-124 | 1 | 0 | 22.45 | 20 | 112 | | 21.12 | 20 | 106 | | 20 | 6.12 | |
| trans-1,3-Dichloropropene | 73-127 | 1 | 0 | 18.54 | 20 | 93 | | 18.38 | 20 | 92 | | 20 | 0.899 | |
| Trichloroethene | 79-123 | 1 | 0 | 22 | 20 | 110 | | 20.37 | 20 | 102 | | 20 | 7.7 | |
| Trichlorofluoromethane | 65-141 | 1 | 0 | 26.34 | 20 | 132 | | 25.56 | 20 | 128 | | 20 | 3 | |
| Vinyl chloride | 58-137 | 1 | 0 | 22.47 | 20 | 112 | | 21.99 | 20 | 110 | | 20 | 2.19 | |

Q - %Recovery / RPD Flag  * - %Recovery / RPD Outside Limits  OL - Outside Limits  %R - %Recovery  DF - Dilution Factor  Amt - Amount (weight or volume)

# Form 3A - Matrix Spike/Spike Duplicate Recovery

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

RunID VOA9-439270

## Volatiles by EPA 8260

| BatchQC (HS23061152-01) | | | | HS23061152-01MS | | | | HS23061152-01MSD | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Matrix: Aqueous | | | Run Date | 06/19/23 | | | | 06/19/23 | | | | | | |
| Result Units: ug/L | | | Run Time | 14:44 | | | | 15:07 | | | | | | |
| | | | Data File | U061912.D | | | | U061913.D | | | | | | |
| Analyte | %R Limits | DF | Sample Result | MS Result | Spike Added | %R | Q | MSD Result | Spike Added | %R | Q | RPD Limit | RPD | Q |
| Trichloroethene | 79-123 | 1 | 0 | 21.35 | 20 | 107 | | 20.7 | 20 | 103 | | 20 | 3.12 | |

Q - %Recovery / RPD Flag  * - %Recovery / RPD Outside Limits  OL - Outside Limits  %R - %Recovery  DF - Dilution Factor  Amt - Amount (weight or volume)

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Form 3B

# Laboratory Control Sample Recovery

## Volatiles by EPA 8260

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/22/2023

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 /Site18/24

Workorder
**HS23061096**

SAMPLENUM
VLCSW-230617

## Volatiles by EPA 8260

| VOA9_439181 | | | VLCSW-230617 | | | |
|---|---|---|---|---|---|---|
| **Spike Matrix** | Aqueous | | **Run Date** | 06/17/23 | | |
| **Result Units** | ug/L | | **Run Time** | 12:50 | | |
| | | | **Data File** | U061705.D | | |
| **Analyte** | **%Recovery Limits** | **Spike Added** | **LCS Result** | **%R** | **Q** | |
| 1,1,1,2-Tetrachloroethane | 78-124 | 20 | 20.47 | 102 | | |
| 1,1,1-Trichloroethane | 74-131 | 20 | 21.62 | 108 | | |
| 1,1,2,2-Tetrachloroethane | 71-121 | 20 | 18.93 | 95 | | |
| 1,1,2-Trichloroethane | 80-119 | 20 | 19.18 | 96 | | |
| 1,1-Dichloroethane | 77-125 | 20 | 19.76 | 99 | | |
| 1,1-Dichloroethene | 71-131 | 20 | 20.25 | 101 | | |
| 1,1-Dichloropropene | 78-125 | 20 | 21.69 | 108 | | |
| 1,2,3-Trichlorobenzene | 69-129 | 20 | 19.02 | 95 | | |
| 1,2,3-Trichloropropane | 73-122 | 20 | 18.6 | 93 | | |
| 1,2,4-Trichlorobenzene | 69-130 | 20 | 19.57 | 98 | | |
| 1,2,4-Trimethylbenzene | 76-124 | 20 | 21.35 | 107 | | |
| 1,2-Dibromo-3-chloropropane | 62-128 | 20 | 17.6 | 88 | | |
| 1,2-Dibromoethane | 77-121 | 20 | 19.52 | 98 | | |
| 1,2-Dichlorobenzene | 80-119 | 20 | 20.22 | 101 | | |
| 1,2-Dichloroethane | 73-128 | 20 | 22.51 | 113 | | |
| 1,2-Dichloropropane | 78-122 | 20 | 20.03 | 100 | | |
| 1,3,5-Trimethylbenzene | 75-124 | 20 | 21.26 | 106 | | |
| 1,3-Dichlorobenzene | 80-119 | 20 | 20.43 | 102 | | |
| 1,3-Dichloropropane | 80-119 | 20 | 19.75 | 99 | | |
| 1,4-Dichlorobenzene | 79-118 | 20 | 20.47 | 102 | | |
| 2,2-Dichloropropane | 60-139 | 20 | 23.21 | 116 | | |
| 2-Butanone | 56-143 | 40 | 37.17 | 93 | | |
| 2-Chlorotoluene | 79-122 | 20 | 21.18 | 106 | | |
| 2-Hexanone | 57-139 | 40 | 35.92 | 90 | | |
| 4-Chlorotoluene | 78-122 | 20 | 22.17 | 111 | | |
| 4-Isopropyltoluene | 77-127 | 20 | 21.91 | 110 | | |
| 4-Methyl-2-pentanone | 67-130 | 40 | 37.2 | 93 | | |
| Acetone | 39-160 | 40 | 42.09 | 105 | | |
| Benzene | 79-120 | 20 | 20.18 | 101 | | |
| Bromobenzene | 80-120 | 20 | 19.9 | 100 | | |
| Bromochloromethane | 78-123 | 20 | 18.68 | 93 | | |
| Bromodichloromethane | 79-125 | 20 | 21.11 | 106 | | |
| Bromoform | 66-130 | 20 | 20.14 | 101 | | |
| Bromomethane | 53-141 | 20 | 25.47 | 127 | | |

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

# Form 3B - Laboratory Control Sample Recovery

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

SAMPLENUM
VLCSW-230617

## Volatiles by EPA 8260

| VOA9_439181 | | | VLCSW-230617 | | | |
|---|---|---|---|---|---|---|
| **Spike Matrix** | Aqueous | **Run Date** | 06/17/23 | | | |
| **Result Units** | ug/L | **Run Time** | 12:50 | | | |
| | | **Data File** | U061705.D | | | |
| Analyte | %Recovery Limits | Spike Added | LCS Result | %R | Q | |
| Carbon disulfide | 64-133 | 40 | 47.41 | 119 | | |
| Carbon tetrachloride | 72-136 | 20 | 22.81 | 114 | | |
| Chlorobenzene | 82-118 | 20 | 20.19 | 101 | | |
| Chloroethane | 60-138 | 20 | 20.27 | 101 | | |
| Chloroform | 79-124 | 20 | 20.49 | 102 | | |
| Chloromethane | 50-139 | 20 | 18.09 | 90 | | |
| cis-1,2-Dichloroethene | 78-123 | 20 | 20.31 | 102 | | |
| cis-1,3-Dichloropropene | 75-124 | 20 | 18.69 | 93 | | |
| Dibromochloromethane | 74-126 | 20 | 20.91 | 105 | | |
| Dibromomethane | 79-123 | 20 | 21.59 | 108 | | |
| Dichlorodifluoromethane | 32-152 | 20 | 20.34 | 102 | | |
| Ethylbenzene | 79-121 | 20 | 20.8 | 104 | | |
| Hexachlorobutadiene | 66-134 | 20 | 22.81 | 114 | | |
| Isopropylbenzene | 72-131 | 20 | 22.8 | 114 | | |
| m,p-Xylene | 80-121 | 40 | 43.31 | 108 | | |
| Methylene chloride | 74-124 | 20 | 21.53 | 108 | | |
| Naphthalene | 61-128 | 20 | 18.64 | 93 | | |
| n-Butylbenzene | 75-128 | 20 | 22.75 | 114 | | |
| n-Propylbenzene | 76-126 | 20 | 22.04 | 110 | | |
| o-Xylene | 78-122 | 20 | 20.74 | 104 | | |
| sec-Butylbenzene | 77-126 | 20 | 22.19 | 111 | | |
| Styrene | 78-123 | 20 | 21.45 | 107 | | |
| tert-Butylbenzene | 78-124 | 20 | 21.44 | 107 | | |
| Tetrachloroethene | 74-129 | 20 | 21.4 | 107 | | |
| Toluene | 80-121 | 20 | 20.73 | 104 | | |
| trans-1,2-Dichloroethene | 75-124 | 20 | 20.72 | 104 | | |
| trans-1,3-Dichloropropene | 73-127 | 20 | 18.67 | 93 | | |
| Trichloroethene | 79-123 | 20 | 20.25 | 101 | | |
| Trichlorofluoromethane | 65-141 | 20 | 24.56 | 123 | | |
| Vinyl chloride | 58-137 | 20 | 19.33 | 97 | | |

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

# Form 3B - Laboratory Control Sample Recovery

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

SAMPLENUM
VLCSW-230619

## Volatiles by EPA 8260

| VOA9_439270 | | | VLCSW-230619 | | | |
|---|---|---|---|---|---|---|
| **Spike Matrix** Aqueous | | **Run Date** | 06/19/23 | | | |
| **Result Units** ug/L | | **Run Time** | 12:07 | | | |
| | | **Data File** | U061905.D | | | |
| Analyte | %Recovery Limits | Spike Added | LCS Result | %R | Q | |
| Trichloroethene | 79-123 | 20 | 20.05 | 100 | | |

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 4

# Method Blank Summary

## Volatiles by EPA 8260

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/22/2023

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 /Site18/24

Workorder
**HS23061096**

## Volatiles by EPA 8260

| Client Sample ID | Type | Lab Sample ID | File ID | Date Analyzed | Run ID |
|---|---|---|---|---|---|
| METHOD BLANK | MBLK | VBLKW-230617 | U061707.D | 06/17/23 13:35 | VOA9_439181 |
| VLCSW-230617 | LCS | VLCSW-230617 | U061705.D | 06/17/23 12:50 | VOA9_439181 |
| BatchQC | MS | HS23060983-01MS | U061710.D | 06/17/23 14:42 | VOA9_439181 |
| BatchQC | MSD | HS23060983-01MSD | U061711.D | 06/17/23 15:04 | VOA9_439181 |
| TRIP BLANK | SAMP | HS23061096-10 | U061715.D | 06/17/23 16:34 | VOA9_439181 |
| 18CPTMW12SW_061423 | SAMP | HS23061096-02 | U061716.D | 06/17/23 16:56 | VOA9_439181 |
| 18CPTMW12DW_061423 | SAMP | HS23061096-03 | U061717.D | 06/17/23 17:19 | VOA9_439181 |
| 130_061423 | SAMP | HS23061096-05 | U061718.D | 06/17/23 17:41 | VOA9_439181 |
| 130_061423_a | SAMP | HS23061096-06 | U061719.D | 06/17/23 18:03 | VOA9_439181 |
| 18WW06_061423 | SAMP | HS23061096-08 | U061720.D | 06/17/23 18:26 | VOA9_439181 |
| 18WW02_061423 | SAMP | HS23061096-09 | U061721.D | 06/17/23 18:48 | VOA9_439181 |
| MW8_061423 | SAMP | HS23061096-07 | U061725.D | 06/17/23 20:18 | VOA9_439181 |
| AWD3_061423 | SAMP | HS23061096-01 | U061727.D | 06/17/23 21:03 | VOA9_439181 |
| MW7_061423 | SAMP | HS23061096-04 | U061729.D | 06/17/23 21:48 | VOA9_439181 |

# Form 4 - Method Blank Summary

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

## Volatiles by EPA 8260

| Client Sample ID | Type | Lab Sample ID | File ID | Date Analyzed | Run ID |
|---|---|---|---|---|---|
| METHOD BLANK | MBLK | VBLKW-230619 | U061907.D | 06/19/23 12:52 | VOA9_439270 |
| VLCSW-230619 | LCS | VLCSW-230619 | U061905.D | 06/19/23 12:07 | VOA9_439270 |
| BatchQC | MS | HS23061152-01MS | U061912.D | 06/19/23 14:44 | VOA9_439270 |
| BatchQC | MSD | HS23061152-01MSD | U061913.D | 06/19/23 15:07 | VOA9_439270 |
| AWD3_061423 | SAMP | HS23061096-01 | U061916.D | 06/19/23 16:14 | VOA9_439270 |
| MW7_061423 | SAMP | HS23061096-04 | U061917.D | 06/19/23 16:36 | VOA9_439270 |
| MW8_061423 | SAMP | HS23061096-07 | U061918.D | 06/19/23 16:58 | VOA9_439270 |

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Form 5

# Instrument Performance Check

## Volatiles by EPA 8260

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/22/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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# Form 5 - Instrument Performance Check

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

RunID
VOA9-437296

## Volatiles by EPA 8260

**Tune File** U060601.D 06/06/23 6/6/2023

| m / e | Ion Abundance Criterion | %RA |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 19 (19) |
| 75 | 30.0 - 60.0% of mass 95 | 46.7 (46.7) |
| 95 | Base peak, 100% RA | 100 (100) |
| 96 | 5.0 - 9.0% of mass 95 | 6.9 (6.86) |
| 173 | Less than 2.0% of mass 174 | 0 (0) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 92.1 (92.1) |
| 175 | 4.0 - 9.0% of mass 174 | 8 (8.69) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 89.4 (97) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 6.1 (6.87) 2 |

%RA - Percent Relative Abundance

**This check applies to the following analyses**

| | Lab Samp ID | Type | Date Analyzed | Lab File ID | Sample ID |
|---|---|---|---|---|---|
| 1 | VSTD000.25 | ICAL1 | 6/6/2023 | U060602 | VSTD000.25 |
| 2 | VSTD000.5 | ICAL2 | 6/6/2023 | U060603 | VSTD000.5 |
| 3 | VSTD005 | ICAL5 | 6/6/2023 | U060606 | VSTD005 |
| 4 | VSTD001 | ICAL3 | 6/6/2023 | U060607 | VSTD001 |
| 5 | VSTD002 | ICAL4 | 6/6/2023 | U060608 | VSTD002 |
| 6 | VSTD020 | ICAL6 | 6/6/2023 | U060609 | VSTD020 |
| 7 | VSTD050 | ICAL7 | 6/6/2023 | U060610 | VSTD050 |
| 8 | VSTD100 | ICAL8 | 6/6/2023 | U060611 | VSTD100 |
| 9 | VSTD150 | ICAL9 | 6/6/2023 | U060612 | VSTD150 |
| 10 | VSTD200 | ICAL | 6/6/2023 | U060613 | VSTD200 |
| 11 | CCV | ICV | 6/6/2023 | U060616 | CCV |

# Form 5 - Instrument Performance Check

| | | | |
|---|---|---|---|
| **Client** | Bhate Environmental Associates, Inc. | Workorder | |
| **Project** | LHAAP /Site18/24 | **HS23061096** | |

RunID

## Volatiles by EPA 8260

VOA9-437296

| | | | |
|---|---|---|---|
| **Tune File** | U060601.D | 06/06/23 6/6/2023 | **This check applies to the following analyses** |

# Form 5 - Instrument Performance Check

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

RunID
VOA9-439181

## Volatiles by EPA 8260

**Tune File** U061701.D 06/17/23 6/17/2023

| m / e | Ion Abundance Criterion | %RA |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 20.9 (20.9) |
| 75 | 30.0 - 60.0% of mass 95 | 54.2 (54.2) |
| 95 | Base peak, 100% RA | 100 (100) |
| 96 | 5.0 - 9.0% of mass 95 | 7.5 (7.48) |
| 173 | Less than 2.0% of mass 174 | 0 (0) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 90.2 (90.2) |
| 175 | 4.0 - 9.0% of mass 174 | 7.9 (8.79) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 88.2 (97.8) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 6 (6.78) 2 |

%RA - Percent Relative Abundance

This check applies to the following analyses

| | Lab Samp ID | Type | Date Analyzed | Lab File ID | Sample ID |
|---|---|---|---|---|---|
| 1 | CCV | CCV | 6/17/2023 | U061703 | CCV |
| 2 | CCB | CCB | 6/17/2023 | U061704 | CCB |
| 3 | VLCSW- | LCS | 6/17/2023 | U061705 | VLCSW-230617 |
| 4 | VBLKW- | MBLK | 6/17/2023 | U061707 | VBLKW-230617 |
| 5 | HS23060983- | MS | 6/17/2023 | U061710 | ZZZZZZMS |
| 6 | HS23060983- | MSD | 6/17/2023 | U061711 | ZZZZZZMSD |
| 7 | HS23061096- | SAMP | 6/17/2023 | U061715 | TRIP BLANK |
| 8 | HS23061096- | SAMP | 6/17/2023 | U061716 | 18CPTMW12SW_061423 |
| 9 | HS23061096- | SAMP | 6/17/2023 | U061717 | 18CPTMW12DW_061423 |
| 10 | HS23061096- | SAMP | 6/17/2023 | U061718 | 130_061423 |
| 11 | HS23061096- | SAMP | 6/17/2023 | U061719 | 130_061423_a |
| 12 | HS23061096- | SAMP | 6/17/2023 | U061720 | 18WW06_061423 |
| 13 | HS23061096- | SAMP | 6/17/2023 | U061721 | 18WW02_061423 |
| 14 | HS23061096- | SAMP | 6/17/2023 | U061725 | MW8_061423 |
| 15 | HS23061096- | SAMP | 6/17/2023 | U061727 | AWD3_061423 |
| 16 | HS23061096- | SAMP | 6/17/2023 | U061729 | MW7_061423 |
| 17 | CCV-END | CCV_EN | 6/17/2023 | U061731 | CCV-END |

# Form 5 - Instrument Performance Check

| | | | |
|---|---|---|---|
| **Client** | Bhate Environmental Associates, Inc. | Workorder | |
| **Project** | LHAAP /Site18/24 | **HS23061096** | |

RunID

## Volatiles by EPA 8260

VOA9-439181

| | | | |
|---|---|---|---|
| **Tune File** | U061701.D | 06/17/23 6/17/2023 | **This check applies to the following analyses** |

# Form 5 - Instrument Performance Check

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

RunID
VOA9-439270

## Volatiles by EPA 8260

**Tune File** U061901.D 06/19/23 6/19/2023

| m / e | Ion Abundance Criterion | %RA |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 19.3 (19.3) |
| 75 | 30.0 - 60.0% of mass 95 | 50.5 (50.5) |
| 95 | Base peak, 100% RA | 100 (95.5) |
| 96 | 5.0 - 9.0% of mass 95 | 7.4 (7.42) |
| 173 | Less than 2.0% of mass 174 | 0 (0) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 104.7 (105) |
| 175 | 4.0 - 9.0% of mass 174 | 9.2 (8.79) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 99.5 (95) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 6.2 (6.25) 2 |

%RA - Percent Relative Abundance

This check applies to the following analyses

| | Lab Samp ID | Type | Date Analyzed | Lab File ID | Sample ID |
|---|---|---|---|---|---|
| 1 | CCV | CCV | 6/19/2023 | U061903 | CCV |
| 2 | CCB | CCB | 6/19/2023 | U061904 | CCB |
| 3 | VLCSW- | LCS | 6/19/2023 | U061905 | VLCSW-230619 |
| 4 | VBLKW- | MBLK | 6/19/2023 | U061907 | VBLKW-230619 |
| 5 | HS23061152- | MS | 6/19/2023 | U061912 | ZZZZZZMS |
| 6 | HS23061152- | MSD | 6/19/2023 | U061913 | ZZZZZZMSD |
| 7 | HS23061096- | SAMP | 6/19/2023 | U061916 | AWD3_061423 |
| 8 | HS23061096- | SAMP | 6/19/2023 | U061917 | MW7_061423 |
| 9 | HS23061096- | SAMP | 6/19/2023 | U061918 | MW8_061423 |
| 10 | CCV-END | CCV_EN | 6/19/2023 | U061921 | CCV-END |

# Form 5 - Instrument Performance Check

| | | | |
|---|---|---|---|
| **Client** | Bhate Environmental Associates, Inc. | Workorder | |
| **Project** | LHAAP /Site18/24 | **HS23061096** | |

RunID

## Volatiles by EPA 8260

VOA9-439270

| | | | |
|---|---|---|---|
| **Tune File** | U061901.D | 06/19/23 6/19/2023 | **This check applies to the following analyses** |

01196380

right solutions.
right partner.

Form 6

# Initial Calibration Data

# Volatiles by EPA 8260

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/22/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

**Workorder** HS23061096

**RunID** VOA9_437296

## Volatiles by EPA 8260

**Calibration Files**

**Level 1** ..target\chem\voa9.i\u230606.b\u060602.d **Level 5**..target\chem\voa9.i\u230606.b\u060606.d
**Level 2**..target\chem\voa9.i\u230606.b\u060603a.d **Level 6**..target\chem\voa9.i\u230606.b\u060609.d
**ICAL Start Date** 06-JUN-2023 1115 **Level 3**..target\chem\voa9.i\u230606.b\u060607.d **Level 7**..target\chem\voa9.i\u230606.b\u060610.d **Level 9**..target\chem\voa9.i\u230606.b\u060612.d
**ICAL End Date** 06-JUN-2023 1541 **Level 4**..target\chem\voa9.i\u230606.b\u060608.d **Level 8**..target\chem\voa9.i\u230606.b\u060611.d **Level 10**target\chem\voa9.i\u230606.b\u060613.d

| Compound | 0.250 Level 1 | 0.500 Level 2 | 1.00 Level 3 | 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50.00 Level 7 | 100.00 Level 8 | 150.00 Level 9 | 200.00 Level 10 | | | | | | | | |
| **Dichlorodifluoromethane** | NE | 3237 | 5058 | 8519 | 31172 | 134998 | | | | | | |
| | 301782 | 630744 | 960667 | 1327832 | | | LINR | 0.00160 | 0.46271 | | 0.99983 | |
| **Chloromethane** | NE | 6740 | 13219 | 24280 | 62455 | 243997 | | | | | | |
| | 533277 | 979734 | NE | NE | | | LINR | -0.02699 | 0.73429 | | 0.99792 | |
| **Propionitrile** | NE | 0.08304 | 0.07790 | 0.06567 | 0.07543 | 0.07008 | | | | | | |
| | 0.06910 | 0.07191 | 0.06959 | 0.06755 | | | AVRG | | 0.07225 | | 7.66936 | |
| **Vinyl Chloride** | NE | 0.53164 | 0.43717 | 0.48902 | 0.55204 | 0.55364 | | | | | | |
| | 0.54961 | 0.55242 | 0.54597 | 0.54834 | | | AVRG | | 0.52887 | | 7.56687 | |
| **Bromomethane** | NE | 2378 | 5133 | 9237 | 23995 | 85360 | | | | | | |
| | 189385 | 362834 | 572508 | 739966 | | | LINR | -0.03678 | 0.26230 | | 0.99829 | |
| **Chloroethane** | NE | 0.38400 | 0.39288 | 0.33413 | 0.35705 | 0.36318 | | | | | | |
| | 0.34874 | 0.34887 | 0.34148 | 0.33605 | | | AVRG | | 0.35626 | | 5.77503 | |
| **Trichlorofluoromethane** | NE | 0.65250 | 0.50831 | 0.50964 | 0.63485 | 0.66665 | | | | | | |
| | 0.60336 | 0.63856 | 0.62802 | 0.62488 | | | AVRG | | 0.60742 | | 9.63343 | |
| **Acrolein** | NE | 0.03356 | 0.02950 | 0.02511 | 0.02566 | 0.02421 | | | | | | |
| | 0.02565 | 0.02534 | 0.02449 | 0.02533 | | | AVRG | | 0.02654 | | 11.47974 | |
| **Acetone** | NE | 8112 | 12344 | 18337 | 31915 | 105410 | | | | | | |
| | 245967 | 467276 | 669020 | NE | | | LINR | -0.11414 | 0.16245 | | 0.99760 | |
| **1,1-Dichloroethene** | NE | 0.43475 | 0.34844 | 0.33936 | 0.38705 | 0.38169 | | | | | | |
| | 0.37538 | 0.38325 | 0.38119 | 0.38464 | | | AVRG | | 0.37953 | | 7.06417 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

**RunID** VOA9_437296

## Volatiles by EPA 8260

**ICAL Start Date** 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541



| Compound | 50.00 Level 7 0.250 Level 1 | 100.00 Level 8 0.500 Level 2 | 150.00 Level 9 1.00 Level 3 | 200.00 Level 10 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Isobutyl Alcohol** | NE<br>0.06592 | 0.06000<br>0.06937 | 0.06647<br>0.06652 | 0.06001<br>0.06907 | 0.06288 | 0.06445 | AVRG | | 0.06496 | | 5.32316 | |
| **Acetonitrile** | NE<br>0.05262 | 0.06019<br>0.05598 | 0.05501<br>0.05486 | 0.05232<br>0.05223 | 0.05374 | 0.05025 | AVRG | | 0.05413 | | 5.29738 | |
| **Allyl Chloride** | NE<br>1.23994 | 1.54447<br>1.31147 | 1.31408<br>1.28770 | 1.21739<br>1.22743 | 1.32627 | 1.21434 | AVRG | | 1.29812 | | 7.89105 | |
| **Iodomethane** | NE<br>311144 | 1872<br>901104 | 3593<br>1654094 | 5244<br>2389174 | 10875 | 69713 | QUAD | 0.19719 | 3.17029 | -0.25959 | 0.99395 | * |
| **Acrylonitrile** | NE<br>0.17643 | 0.19222<br>0.19265 | 0.17779<br>0.18699 | 0.18194<br>0.18155 | 0.19969 | 0.17956 | AVRG | | 0.18542 | | 4.28504 | |
| **Methylene Chloride** | NE<br>313459 | 6638<br>614571 | 9867<br>934598 | 14226<br>1286266 | 34262 | 133454 | LINR | -0.02055 | 0.44680 | | 0.99989 | |
| **Methyl tert-butyl ether** | NE<br>1.11011 | 1.34489<br>1.18230 | 1.22763<br>1.16687 | 1.06262<br>1.13583 | 1.16892 | 1.07548 | AVRG | | 1.16385 | | 7.37549 | |
| **Carbon Disulfide** | NE<br>1.05257 | 0.97637<br>1.06234 | 0.93978<br>1.05033 | 0.91298<br>1.04865 | 1.04258 | 1.04592 | AVRG | | 1.01461 | | 5.54329 | |
| **trans-1,2-Dichloroethene** | NE<br>0.42568 | 0.43966<br>0.42424 | 0.36838<br>0.41068 | 0.38985<br>0.41906 | 0.41680 | 0.42038 | AVRG | | 0.41275 | | 5.16490 | |
| **Vinyl Acetate** | NE<br>1.24787 | 1.16903<br>1.32894 | 1.28605<br>1.32075 | 1.14428<br>1.28290 | 1.31826 | 1.22557 | AVRG | | 1.25818 | | 5.33224 | |
| **1,1-Dichloroethane** | NE<br>0.75452 | 0.91579<br>0.74633 | 0.85153<br>0.73811 | 0.77473<br>0.73300 | 0.79838 | 0.74713 | AVRG | | 0.78439 | | 7.88122 | |
| **Chloroprene** | NE<br>0.15370 | 0.18753<br>0.16003 | 0.14913<br>0.16411 | 0.13564<br>0.16977 | 0.14899 | 0.16635 | AVRG | | 0.15947 | | 9.35578 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

**RunID** VOA9_437296

## Volatiles by EPA 8260

**ICAL Start Date** 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541



| Compound | 0.250 Level 1 | 0.500 Level 2 | 1.00 Level 3 | 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50.00 Level 7 | 100.00 Level 8 | 150.00 Level 9 | 200.00 Level 10 | | | | | | | | |
| **2-Butanone** | NE | 0.26865 | 0.27005 | 0.22221 | 0.22579 | 0.21550 | | | | | | |
| | 0.21032 | 0.21900 | 0.21311 | 0.20708 | | | AVRG | | 0.22797 | | 10.59636 | |
| **Methacrylonitrile** | NE | 0.32297 | 0.29216 | 0.25772 | 0.27607 | 0.29576 | | | | | | |
| | 0.29063 | 0.31155 | 0.31218 | 0.29964 | | | AVRG | | 0.29541 | | 6.71428 | |
| **2,2-Dichloropropane** | NE | 3685 | 6247 | 12294 | 33762 | 139835 | | | | | | |
| | 344673 | 699035 | 1080274 | 1505657 | | | LINR | 0.00797 | 0.52278 | | 0.99995 | |
| **cis-1,2-Dichloroethene** | NE | 0.54176 | 0.49058 | 0.46721 | 0.51503 | 0.48586 | | | | | | |
| | 0.48847 | 0.48782 | 0.48487 | 0.48248 | | | AVRG | | 0.49378 | | 4.41592 | |
| **Chloroform** | NE | 0.87650 | 0.79076 | 0.79799 | 0.85300 | 0.80968 | | | | | | |
| | 0.81885 | 0.81161 | 0.79868 | 0.79042 | | | AVRG | | 0.81639 | | 3.62615 | |
| **Bromochloromethane** | NE | 0.31315 | 0.30614 | 0.26452 | 0.28615 | 0.26876 | | | | | | |
| | 0.26708 | 0.26410 | 0.26302 | 0.25295 | | | AVRG | | 0.27621 | | 7.56831 | |
| **1,1,1-Trichloroethane** | NE | 0.65994 | 0.57497 | 0.52644 | 0.61086 | 0.63915 | | | | | | |
| | 0.63238 | 0.65446 | 0.64619 | 0.65564 | | | AVRG | | 0.62223 | | 7.20510 | |
| **1,1-Dichloropropene** | NE | 0.32259 | 0.38290 | 0.31292 | 0.36218 | 0.38416 | | | | | | |
| | 0.37173 | 0.39025 | 0.38140 | 0.38981 | | | AVRG | | 0.36644 | | 7.93028 | |
| **1,2-Dichloroethane** | NE | 0.46850 | 0.42052 | 0.45938 | 0.45322 | 0.42725 | | | | | | |
| | 0.42081 | 0.42485 | 0.41425 | 0.40606 | | | AVRG | | 0.43276 | | 5.06646 | |
| **Carbon Tetrachloride** | NE | 0.35476 | 0.28321 | 0.26732 | 0.31231 | 0.35238 | | | | | | |
| | 0.34607 | 0.37126 | 0.36664 | 0.37542 | | | AVRG | | 0.33660 | | 11.75294 | |
| **Benzene** | NE | 1.18679 | 1.09401 | 1.22033 | 1.26301 | 1.23391 | | | | | | |
| | 1.23100 | 1.22379 | 1.20222 | 1.18837 | | | AVRG | | 1.20483 | | 3.98055 | |
| **Trichloroethene** | NE | 0.37553 | 0.35201 | 0.32048 | 0.36729 | 0.34693 | | | | | | |
| | 0.34006 | 0.34777 | 0.34410 | 0.34873 | | | AVRG | | 0.34921 | | 4.49432 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

**Workorder** HS23061096

**RunID** VOA9_437296

## Volatiles by EPA 8260

**ICAL Start Date** 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541



| Compound | 0.250 Level 1 | 0.500 Level 2 | 1.00 Level 3 | 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | 50.00 Level 7 | 100.00 Level 8 | 150.00 Level 9 | 200.00 Level 10 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Bromodichloromethane** | NE | 0.38289 | 0.33360 | 0.32980 | 0.37143 | 0.36599 | | | | | | | | | | |
| | 0.38236 | 0.40428 | 0.40608 | 0.40603 | | | | | | | AVRG | | 0.37583 | | 7.72711 | |
| **Methyl Methacrylate** | NE | 0.45886 | 0.38280 | 0.37522 | 0.40434 | 0.41660 | | | | | | | | | | |
| | 0.43942 | 0.46989 | 0.46614 | 0.45591 | | | | | | | AVRG | | 0.42991 | | 8.44989 | |
| **2-Chloroethylvinyl ether** | NE | 0.00852 | 0.00946 | 0.00945 | 0.00895 | 0.00842 | | | | | | | | | | |
| | 0.00884 | 0.00999 | NE | NE | | | | | | | AVRG | | 0.00909 | | 6.25191 | |
| **1,2-Dichloropropane** | NE | NE | 0.32786 | 0.31466 | 0.32797 | 0.32063 | | | | | | | | | | |
| | 0.32122 | 0.32222 | 0.32000 | 0.31897 | | | | | | | AVRG | | 0.32169 | | 1.38453 | * |
| **2-Nitropropane** | NE | 0.20680 | 50.26056 | 40.89437 | 0.11155 | 0.10087 | | | | | | | | | | |
| | 0.11432 | 0.13484 | 0.13886 | 0.13916 | | | | | | | AVRG | | 10.23348 | | 197 | * |
| **Dibromomethane** | NE | 0.21005 | 0.21181 | 0.20209 | 0.21295 | 0.20004 | | | | | | | | | | |
| | 0.19996 | 0.20667 | 0.20373 | 0.20258 | | | | | | | AVRG | | 0.20554 | | 2.43958 | |
| **4-Methyl-2-Pentanone** | NE | 0.31052 | 0.34114 | 0.41679 | 0.37151 | 0.37510 | | | | | | | | | | |
| | 0.35703 | 0.36713 | 0.37263 | 0.36509 | | | | | | | AVRG | | 0.36411 | | 7.81829 | |
| **cis-1,3-Dichloropropene** | NE | 4533 | 6985 | 12842 | 37734 | 176588 | | | | | | | | | | |
| | 477156 | 1015887 | 1649908 | 2272308 | | | | | | | LINR | 0.03823 | 0.52354 | | 0.99932 | |
| **Ethyl Methacrylate** | NE | 0.46860 | 0.39717 | 0.34291 | 0.45495 | 0.41708 | | | | | | | | | | |
| | 0.43593 | 0.47447 | 0.47560 | 0.47794 | | | | | | | AVRG | | 0.43830 | | 10.42832 | |
| **Toluene** | NE | 1.46131 | 1.30389 | 1.24034 | 1.38024 | 1.44328 | | | | | | | | | | |
| | 1.37452 | 1.35611 | 1.33752 | 1.30792 | | | | | | | AVRG | | 1.35612 | | 5.10785 | |
| **trans-1,3-Dichloropropene** | NE | 4073 | 5962 | 12660 | 31811 | 143978 | | | | | | | | | | |
| | 395477 | 857257 | 1382903 | 1913130 | | | | | | | LINR | 0.04043 | 0.44043 | | 0.99920 | |
| **2-Hexanone** | NE | 0.21896 | 0.27173 | 0.31735 | 0.24794 | 0.24808 | | | | | | | | | | |
| | 0.23737 | 0.24894 | 0.24680 | 0.24494 | | | | | | | AVRG | | 0.25357 | | 10.85593 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

**Workorder** HS23061096

**RunID** VOA9_437296

## Volatiles by EPA 8260

**ICAL Start Date** 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541



| Compound | 0.250 Level 1 | 0.500 Level 2 | 1.00 Level 3 | 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1,1,2-Trichloroethane** | NE | 0.27781 | 0.33823 | 0.29394 | 0.29026 | 0.27967 | | | | | | |
| | 0.26145 | 0.26759 | 0.26884 | 0.26174 | | | AVRG | | 0.28217 | | 8.50628 | |
| **1,3-Dichloropropane** | NE | 0.60411 | 0.57145 | 0.58138 | 0.60045 | 0.59066 | | | | | | |
| | 0.56388 | 0.56350 | 0.56462 | 0.54844 | | | AVRG | | 0.57650 | | 3.26997 | |
| **Dibromochloromethane** | NE | 0.33281 | 0.26753 | 0.28317 | 0.30864 | 0.33570 | | | | | | |
| | 0.35269 | 0.37245 | 0.38159 | 0.37861 | | | AVRG | | 0.33480 | | 12.37215 | |
| **Tetrachloroethene** | NE | 0.33596 | 0.35937 | 0.31268 | 0.33355 | 0.34752 | | | | | | |
| | 0.31218 | 0.32329 | 0.32063 | 0.32848 | | | AVRG | | 0.33041 | | 4.74735 | |
| **1,2-Dibromoethane** | NE | 0.39291 | 0.36483 | 0.35335 | 0.34243 | 0.34494 | | | | | | |
| | 0.32995 | 0.33734 | 0.33751 | 0.32947 | | | AVRG | | 0.34808 | | 5.80098 | |
| **1-Chlorohexane** | NE | 0.28084 | 0.24384 | 0.24810 | 0.24355 | 0.26710 | | | | | | |
| | 0.23045 | 0.25935 | 0.26305 | 0.27442 | | | AVRG | | 0.25674 | | 6.39033 | |
| **Chlorobenzene** | NE | 0.96090 | 1.02474 | 0.99652 | 1.00286 | 0.97411 | | | | | | |
| | 0.93816 | 0.94626 | 0.94168 | 0.92552 | | | AVRG | | 0.96786 | | 3.50306 | |
| **1,1,1,2-Tetrachloroethane** | NE | 0.33813 | 0.30312 | 0.32230 | 0.31656 | 0.33414 | | | | | | |
| | 0.33475 | 0.34379 | 0.35090 | 0.35020 | | | AVRG | | 0.33265 | | 4.80000 | |
| **Ethylbenzene** | NE | 0.44932 | 0.42798 | 0.38496 | 0.43441 | 0.46740 | | | | | | |
| | 0.45349 | 0.47695 | 0.48030 | 0.47946 | | | AVRG | | 0.45047 | | 6.92422 | |
| **m,p-Xylenes** | NE | 0.49705 | 0.47095 | 0.46613 | 0.47186 | 0.54822 | | | | | | |
| | 0.56107 | 0.59332 | 0.59550 | 0.59257 | | | AVRG | | 0.53296 | | 10.58600 | |
| **o-Xylene** | NE | 0.51375 | 0.46105 | 0.45548 | 0.49419 | 0.53695 | | | | | | |
| | 0.54530 | 0.57414 | 0.58153 | 0.57622 | | | AVRG | | 0.52651 | | 9.19888 | |
| **Styrene** | NE | 0.81868 | 0.66693 | 0.74091 | 0.69822 | 0.82991 | | | | | | |
| | 0.89449 | 0.95766 | 0.96825 | 0.94500 | | | AVRG | | 0.83556 | | 13.68101 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

**Workorder** HS23061096

**RunID** VOA9_437296

## Volatiles by EPA 8260

**ICAL Start Date** 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541



| Compound | 0.250 Level 1 | 0.500 Level 2 | 1.00 Level 3 | 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Bromoform** | NE | 0.19493 | 0.19245 | 0.20896 | 0.19978 | 0.21157 | | | | | | |
| | 0.23260 | 0.26095 | 0.26822 | 0.26444 | | | AVRG | | 0.22599 | | 13.81919 | |
| **Isopropylbenzene** | NE | 1.14173 | 1.13317 | 1.09443 | 1.19733 | 1.34411 | | | | | | |
| | 1.29966 | 1.39540 | 1.38723 | 1.38856 | | | AVRG | | 1.26463 | | 9.72168 | |
| **1,1,2,2-Tetrachloroethane** | NE | 0.94934 | 1.02444 | 1.13699 | 0.96171 | 0.90982 | | | | | | |
| | 0.86517 | 0.88446 | 0.87983 | 0.85285 | | | AVRG | | 0.94051 | | 9.75227 | |
| **1,2,3-Trichloropropane** | NE | 0.89588 | 0.76851 | 0.91659 | 0.81959 | 0.76888 | | | | | | |
| | 0.78271 | 0.82369 | 0.84037 | 0.83039 | | | AVRG | | 0.82740 | | 6.30706 | |
| **trans-1,4-Dichloro-2-butene** | NE | 0.05261 | 0.05796 | 0.05335 | 0.05527 | 0.04837 | | | | | | |
| | 0.05433 | 0.06324 | 0.06690 | 0.06611 | | | AVRG | | 0.05757 | | 11.24480 | * |
| **n-Propylbenzene** | NE | 2.34893 | 2.29516 | 2.26496 | 2.35462 | 2.68484 | | | | | | |
| | 2.66761 | 2.93371 | 2.98954 | 3.06453 | | | AVRG | | 2.62266 | | 12.16608 | |
| **Bromobenzene** | NE | 0.83256 | 0.87296 | 0.91857 | 0.83236 | 0.84108 | | | | | | |
| | 0.80219 | 0.82248 | 0.83564 | 0.83486 | | | AVRG | | 0.84363 | | 3.98394 | |
| **1,3,5-Trimethylbenzene** | NE | 1.71333 | 1.73215 | 1.69625 | 1.68766 | 1.72132 | | | | | | |
| | 1.72613 | 1.88842 | 1.96460 | 2.06354 | | | AVRG | | 1.79927 | | 7.64842 | |
| **2-Chlorotoluene** | NE | 1.65439 | 1.84359 | 1.86405 | 1.83620 | 1.93464 | | | | | | |
| | 1.83116 | 1.87957 | 1.87542 | 1.87375 | | | AVRG | | 1.84364 | | 4.19843 | |
| **4-Chlorotoluene** | NE | 1.80601 | 1.92642 | 2.12066 | 2.01548 | 2.11322 | | | | | | |
| | 2.03659 | 2.10132 | 2.11273 | 2.13399 | | | AVRG | | 2.04071 | | 5.42387 | |
| **tert-Butylbenzene** | NE | 1.66206 | 1.63607 | 1.58431 | 1.70142 | 1.87604 | | | | | | |
| | 1.72651 | 1.87463 | 1.89391 | 1.94965 | | | AVRG | | 1.76718 | | 7.49680 | |
| **1,2,4-Trimethylbenzene** | NE | 1.87283 | 1.98426 | 2.00872 | 1.83192 | 1.77568 | | | | | | |
| | 1.70257 | 1.83519 | 1.91537 | 2.01697 | | | AVRG | | 1.88261 | | 5.76159 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

**Workorder** HS23061096

**RunID** VOA9_437296

## Volatiles by EPA 8260

**ICAL Start Date** 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541



| Compound | 50.00 Level 7 0.250 Level 1 | 100.00 Level 8 0.500 Level 2 | 150.00 Level 9 1.00 Level 3 | 200.00 Level 10 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **sec-Butylbenzene** | NE<br>2.18438 | 2.00057<br>2.46235 | 2.11593<br>2.51457 | 1.90597<br>2.60373 | 2.05445 | 2.32792 | AVRG | | 2.24110 | | 11.00553 | |
| **p-Isopropyltoluene** | NE<br>1.76859 | 1.74598<br>2.03397 | 1.77727<br>2.13513 | 1.70832<br>2.25284 | 1.70523 | 1.77034 | AVRG | | 1.87752 | | 10.99191 | |
| **1,3-Dichlorobenzene** | NE<br>1.34174 | 1.44494<br>1.39069 | 1.46902<br>1.40351 | 1.55334<br>1.41569 | 1.44971 | 1.42715 | AVRG | | 1.43286 | | 4.09348 | |
| **1,4-Dichlorobenzene** | NE<br>1.40239 | 1.54178<br>1.43640 | 1.71276<br>1.45286 | 1.69155<br>1.45678 | 1.56931 | 1.48576 | AVRG | | 1.52773 | | 7.29827 | |
| **Benzyl Chloride** | NE<br>234906 | 1867<br>573982 | 5481<br>988530 | 11203<br>1346925 | 22092 | 85763 | LINR | 0.06934 | 0.32121 | | 0.99572 | |
| **n-Butylbenzene** | NE<br>1.46534 | 1.58034<br>1.66824 | 1.52199<br>1.76126 | 1.45737<br>1.86929 | 1.51798 | 1.62397 | AVRG | | 1.60731 | | 8.65865 | |
| **1,2-Dichlorobenzene** | NE<br>1.34667 | 1.37505<br>1.37717 | 1.58056<br>1.39037 | 1.62196<br>1.39656 | 1.41014 | 1.43132 | AVRG | | 1.43664 | | 6.73798 | |
| **1,2-Dibromo-3-Chloropropane** | NE<br>0.13055 | 0.12905<br>0.14193 | 0.13125<br>0.15019 | 0.15055<br>0.15436 | 0.12496 | 0.12235 | AVRG | | 0.13724 | | 8.84952 | |
| **1,2,4-Trichlorobenzene** | NE<br>0.92607 | 0.99711<br>0.97797 | 1.02603<br>1.01256 | 1.05277<br>1.03962 | 0.91403 | 0.94731 | AVRG | | 0.98816 | | 5.06669 | |
| **Hexachlorobutadiene** | NE<br>0.34400 | 0.41409<br>0.38848 | 0.47350<br>0.41057 | 0.36363<br>0.43096 | 0.36197 | 0.40436 | AVRG | | 0.39906 | | 9.99191 | |
| **Naphthalene** | NE<br>2.32218 | 2.00604<br>2.38330 | 2.45479<br>2.41879 | 2.35836<br>2.39671 | 2.05295 | 2.26528 | AVRG | | 2.29538 | | 7.00317 | |
| **1,2,3-Trichlorobenzene** | NE<br>0.91575 | 0.89610<br>0.95078 | 1.01723<br>0.97037 | 1.09261<br>0.98955 | 0.91438 | 0.94752 | AVRG | | 0.96603 | | 6.32619 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

**RunID** VOA9_437296

## Volatiles by EPA 8260

**ICAL Start Date** 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541



| Compound | 0.250 Level 1 | 0.500 Level 2 | 1.00 Level 3 | 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50.00 Level 7 | 100.00 Level 8 | 150.00 Level 9 | 200.00 Level 10 | | | | | | | | |
| **Ethyl Acetate** | NE | 0.56275 | 0.47646 | 0.45270 | 0.44438 | 0.42507 | | | | | | |
| | 0.40659 | 0.43291 | 0.42120 | 0.40047 | | | AVRG | | 0.44695 | | 11.03167 | |
| **Methyl Acrylate** | NE | 0.64029 | 0.52884 | 0.45224 | 0.49568 | 0.50330 | | | | | | |
| | 0.51803 | 0.55501 | 0.53794 | 0.52785 | | | AVRG | | 0.52880 | | 9.67195 | |
| **n-Butanol** | NE | 0.01415 | 2.08859 | 4.21587 | 0.01247 | 0.01208 | | | | | | |
| | 0.01307 | 0.01509 | 0.01514 | 0.01494 | | | AVRG | | 0.71127 | | 208 | * |
| **Cyclohexanone** | NE | 0.03990 | 0.03613 | 0.02961 | 0.03016 | 0.02808 | | | | | | |
| | 0.02875 | 0.02946 | 0.02809 | 0.02880 | | | AVRG | | 0.03100 | | 13.36896 | |
| **1,4-Dioxane** | 0.02235 | 0.01166 | 0.01127 | 0.01101 | 0.00960 | 0.00693 | | | | | | |
| | 0.00659 | 0.00691 | 0.00671 | 0.00625 | | | AVRG | | 0.00993 | | 49.04531 | * |
| **n-Hexane** | NE | 2983 | 4787 | 7179 | 28289 | 131033 | | | | | | |
| | 256401 | 595793 | 933406 | 1358253 | | | QUAD | 0.00210 | 2.46538 | -0.18460 | 0.99921 | |
| **Freon TF** | NE | 0.35587 | 0.27604 | 0.26719 | 0.34986 | 0.36574 | | | | | | |
| | 0.32170 | 0.35856 | 0.35800 | 0.36926 | | | AVRG | | 0.33580 | | 11.58349 | |
| **Methyl Acetate** | NE | 0.50232 | 0.47241 | 0.46924 | 0.40980 | 0.39186 | | | | | | |
| | 0.37668 | 0.40100 | 0.38762 | 0.37810 | | | AVRG | | 0.42100 | | 11.22802 | |
| **Methylcyclohexane** | NE | 0.71717 | 0.66486 | 0.57666 | 0.69680 | 0.64861 | | | | | | |
| | 0.63877 | 0.77007 | 0.77041 | 0.75903 | | | AVRG | | 0.69360 | | 9.68871 | |
| **Isopropyl alcohol** | NE | 0.03524 | 0.03413 | 0.04209 | 0.03152 | 0.02969 | | | | | | |
| | 0.02926 | 0.03162 | 0.03087 | 0.02976 | | | AVRG | | 0.03269 | | 12.43532 | |
| **Amyl alcohol** | NE | 0.01197 | 1.92102 | 3.42130 | 0.00863 | 0.00951 | | | | | | |
| | 0.00986 | 0.01105 | 0.01113 | 0.01101 | | | AVRG | | 0.60172 | | 205 | * |
| **Allyl alcohol** | NE | 2691 | 4787 | 7179 | 27611 | 131033 | | | | | | |
| | 256401 | 595793 | 933406 | 1358253 | | | QUAD | 0.05728 | 49.27793 | -3.68010 | 0.99921 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

**Workorder** HS23061096

**RunID** VOA9_437296

## Volatiles by EPA 8260

**ICAL Start Date** 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541



| Compound | 50.00 Level 7 0.250 Level 1 | 100.00 Level 8 0.500 Level 2 | 150.00 Level 9 1.00 Level 3 | 200.00 Level 10 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **4-Methyl-2-pentanol** | NE<br>0.06687 | 0.10161<br>0.07627 | 0.07347<br>0.07449 | 0.06147<br>0.07390 | 0.06954 | 0.07154 | AVRG | | 0.07435 | | 15.04325 | |
| **Tert-butyl alcohol** | NE<br>592187 | 6757<br>1263261 | 16016<br>1948328 | 34487<br>2615413 | 66425 | 255911 | LINR | -0.09917 | 0.04597 | | 0.99942 | |
| **Diethyl ether** | NE<br>0.32639 | 0.41853<br>0.34643 | 0.29113<br>0.34449 | 0.31214<br>0.33721 | 0.34912 | 0.31512 | AVRG | | 0.33784 | | 10.59316 | |
| **1,3-Butadiene** | NE<br>0.48722 | 0.44026<br>0.50601 | 0.41436<br>0.49354 | 0.42154<br>0.49579 | 0.49134 | 0.51162 | AVRG | | 0.47352 | | 7.90782 | |
| **Cyclohexane** | NE<br>384146 | 4345<br>872566 | 7781<br>1346053 | 8877<br>1948136 | 37840 | 190495 | QUAD | 0.00384 | 1.66261 | -0.06851 | 0.99933 | |
| **Tetrahydrofuran** | NE<br>124830 | 1846<br>246154 | 3378<br>364883 | 4068<br>488623 | 13490 | 48081 | LINR | -0.04721 | 0.08627 | | 0.99868 | |
| **alpha-Methylstyrene** | NE<br>398013 | 3201<br>939505 | 6428<br>1521945 | 14955<br>2162870 | 33946 | 141914 | LINR | 0.07068 | 1.00922 | | 0.99634 | |
| **Diisopropyl ether** | NE<br>1.33854 | 1.62723<br>1.40873 | 1.35167<br>1.38423 | 1.35708<br>1.35239 | 1.43176 | 1.29604 | AVRG | | 1.39419 | | 6.88405 | |
| **Dichlorofluoromethane** | NE<br>0.68369 | 1.14419<br>0.72055 | 154<br>0.71841 | 259<br>0.70435 | 0.74302 | 0.65918 | AVRG | | 46.48926 | | 203 | * |
| **Butyl acrylate** | NE<br>0.56545 | 0.65141<br>0.62687 | 0.57943<br>0.64178 | 0.50180<br>0.63283 | 0.56456 | 0.55884 | AVRG | | 0.59144 | | 8.39860 | |
| **Dicyclopentadiene** | NE<br>2.17722 | 2.29788<br>2.45924 | 3.10552<br>2.50496 | 2.30282<br>2.43925 | 2.47288 | 2.19129 | AVRG | | 2.43901 | | 11.40017 | |
| **1,2,3-Trimethylbenzene** | NE<br>1.72212 | 2.16993<br>1.82789 | 2.16879<br>1.86297 | 1.86768<br>1.91009 | 2.05701 | 1.71103 | AVRG | | 1.92195 | | 9.02117 | |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

**RunID** VOA9_437296

## Volatiles by EPA 8260

**ICAL Start Date** 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541



| Compound | 0.250 Level 1 | 0.500 Level 2 | 1.00 Level 3 | 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50.00 Level 7 | 100.00 Level 8 | 150.00 Level 9 | 200.00 Level 10 | | | | | | | | |
| **Ethanol** | NE<br>83818 | 929<br>175232 | 2663<br>261491 | 4910<br>342926 | 9968 | 33180 | LINR | -0.45661 | 0.00610 | | 0.99807 | |
| **tert-Butyl formate** | NE<br>0.35469 | NE<br>0.39711 | 70.88590<br>0.40728 | 111<br>0.40312 | 0.37084 | 0.36100 | AVRG | | 23.05896 | | 188 | * |
| **3,3-Dimethyl-1-butanol** | NE<br>0.03321 | 0.12053<br>0.03570 | 15.41396<br>0.03539 | 18.45449<br>0.03515 | 0.03977 | 0.03772 | AVRG | | 3.80066 | | 197 | * |
| **tert-Amyl methyl ether** | NE<br>1.27072 | 2.14082<br>1.66952 | 303<br>1.69353 | 515<br>1.68414 | 1.51794 | 1.20622 | AVRG | | 92.03003 | | 203 | * |
| **tert-Butyl ethyl ether** | NE<br>1.16135 | 1.66370<br>1.24096 | 249<br>1.23931 | 427<br>1.22143 | 1.20218 | 1.12101 | AVRG | | 76.03857 | | 204 | * |
| **tert-Amyl alcohol** | NE<br>0.03547 | 0.04913<br>0.03971 | 7.08859<br>0.04073 | 11.12917<br>0.04031 | 0.03708 | 0.03610 | AVRG | | 2.05514 | | 201 | * |
| **Epichlorohydrin** | NE<br>17348 | NE<br>42530 | 230<br>78090 | 854<br>120896 | 2028 | 5384 | QUAD | 0.19276 | 210 | -620 | 0.99786 | * |
| **Isoprene** | NE<br>0.12271 | 0.17622<br>0.12050 | 24.46517<br>0.11801 | 42.70055<br>0.13763 | 0.11208 | 0.12455 | AVRG | | 7.56416 | | 204 | * |
| **n-Amyl acetate** | NE<br>0.55364 | NE<br>0.58593 | NE<br>0.59354 | 211<br>0.58358 | 0.63545 | 0.57662 | AVRG | | 30.68893 | | 260 | * |
| **Isopropyl acetate** | NE<br>0.98722 | 1.34246<br>1.04945 | 418<br>1.03674 | 509<br>1.02205 | 1.01129 | 0.99086 | AVRG | | 104 | | 198 | * |
| **n-Butyl acetate** | NE<br>0.55036 | 0.55703<br>0.58437 | 0.53651<br>0.60799 | 0.60175<br>0.59915 | 0.53866 | 0.54802 | AVRG | | 0.56932 | | 5.06190 | |
| **Acetaldehyde** | NE<br>0.06756 | NE<br>0.07481 | NE<br>0.07268 | NE<br>0.07068 | 0.05587 | 0.07216 | AVRG | | 0.06896 | | 9.93199 | * |

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

**Workorder** HS23061096

**RunID** VOA9_437296

## Volatiles by EPA 8260

**ICAL Start Date** 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541



| Compound | 50.00 Level 7 / 0.250 Level 1 | 100.00 Level 8 / 0.500 Level 2 | 150.00 Level 9 / 1.00 Level 3 | 200.00 Level 10 / 2.00 Level 4 | 5.00 Level 5 | 20.00 Level 6 | Curve | b | m1 | m2 | %RSD or R2 | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Methyl Amyl Ketone** | NE<br>0.66113 | 1.57193<br>0.70193 | 232<br>0.68889 | 332<br>0.68782 | 0.72364 | 0.69666 | AVRG | | 63.26693 | | 200 | * |
| **Dimethyl Disulfide** | NE<br>275143 | 1341<br>843448 | 2841<br>1542342 | 4598<br>2303909 | 15263 | 75368 | QUAD | 0.09069 | 2.54687 | -0.35667 | 0.99436 | |
| **2-Ethylhexyl Acrylate** | NE<br>214955 | 2309<br>534360 | 4963<br>905239 | 8201<br>1300346 | 19373 | 70007 | QUAD | 0.03475 | 2.11188 | -0.20750 | 0.99843 | |
| **94 1,2-Dichloroethylene (total)** | NE<br>0.45707 | 0.49071<br>0.45603 | 0.42948<br>0.44777 | 0.42853<br>0.45077 | 0.46591 | 0.45312 | AVRG | | 0.45327 | | 4.12637 | |
| **95 Xylenes (total)** | NE<br>0.53378 | 0.46723<br>0.57391 | 0.43600<br>0.57061 | 0.43592<br>0.57101 | 0.45257 | 0.49964 | AVRG | | 0.50452 | | 11.72066 | |
| **30 Dibromofluoromethane** | NE<br>271537 | 3644<br>587291 | 5853<br>869167 | 10602<br>1189943 | 30229 | 119153 | LINR | -0.00632 | 0.41704 | | 0.99929 | |
| **35 1,2-Dichloroethane-d4** | NE<br>303470 | 3795<br>630129 | 6027<br>944002 | 11855<br>1273587 | 34153 | 129564 | LINR | -0.01366 | 0.44800 | | 0.99930 | |
| **48 Toluene-d8** | NE<br>1.07251 | 1.56295<br>1.11768 | 1.00002<br>1.06933 | 1.01159<br>1.04518 | 1.14526 | 1.16028 | AVRG | | 1.13164 | | 15.10726 | |
| **69 4-Bromofluorobenzene** | NE<br>425877 | 5007<br>923899 | 8608<br>1355424 | 16728<br>1832443 | 49215 | 178335 | LINR | -0.01813 | 0.43793 | | 0.99886 | |

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 8260

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/22/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

# Initial Calibration Verification (ICV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

RunID VOA9_437296

## Volatiles by EPA 8260

**Sample Matrix** LIQUID
**Lab Smp Id** ICV
**Level** LOW
**Fraction** VOA
**Client Smp ID** ICV
**Operator** PC

| Compound | Conc Added | Conc Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 50.00 | 49.07 | 98.15 | 80-120 | |
| 1,1,1-Trichloroethane | 50.00 | 44.11 | 88.23 | 80-120 | |
| 1,1,2,2-Tetrachloroethane | 50.00 | 44.15 | 88.32 | 80-120 | |
| Freon TF | 50.00 | 42.50 | 85.01 | 80-120 | |
| Methyl Acetate | 50.00 | 40.70 | 81.42 | 80-120 | |
| Cyclohexane | 50.00 | 42.07 | 84.15 | 80-120 | |
| Methylcyclohexane | 50.00 | 46.30 | 92.61 | 80-120 | |
| Carbon Disulfide | 100.00 | 93.13 | 93.14 | 80-120 | |
| 2-Hexanone | 100.00 | 92.61 | 92.61 | 80-120 | |
| 1,1,2-Trichloroethane | 50.00 | 45.65 | 91.32 | 80-120 | |
| 1,1-Dichloroethane | 50.00 | 41.14 | 82.28 | 80-120 | |
| 1,1-Dichloroethene | 50.00 | 43.45 | 86.92 | 80-120 | |
| 1,1-Dichloropropene | 50.00 | 45.66 | 91.33 | 80-120 | |
| 1,2,3-Trichlorobenzene | 50.00 | 47.31 | 94.63 | 80-120 | |
| 1,2,3-Trichloropropane | 50.00 | 45.92 | 91.85 | 80-120 | |
| 1,2,4-Trichlorobenzene | 50.00 | 47.57 | 95.14 | 80-120 | |
| 1,2,4-Trimethylbenzene | 50.00 | 47.79 | 95.60 | 80-120 | |
| 1,2-Dibromo-3-Chloropropane | 50.00 | 47.57 | 95.14 | 80-120 | |
| 1,2-Dibromoethane | 50.00 | 45.60 | 91.22 | 80-120 | |
| Acrolein | 100.00 | 87.41 | 87.42 | 80-120 | |
| Acrylonitrile | 100.00 | 91.25 | 91.25 | 80-120 | |
| 1,2-Dichlorobenzene | 50.00 | 45.26 | 90.54 | 80-120 | |
| 1,2-Dichloroethane | 50.00 | 44.18 | 88.38 | 80-120 | |
| 1,2-Dichloropropane | 50.00 | 45.23 | 90.47 | 80-120 | |
| 1,3,5-Trimethylbenzene | 50.00 | 48.21 | 96.43 | 80-120 | |
| 1,3-Dichlorobenzene | 50.00 | 46.22 | 92.45 | 80-120 | |
| 1,3-Dichloropropane | 50.00 | 47.41 | 94.82 | 80-120 | |
| 1,4-Dichlorobenzene | 50.00 | 44.52 | 89.05 | 80-120 | |
| 1-Chlorohexane | 50.00 | 40.85 | 81.71 | 80-120 | |
| 2,2-Dichloropropane | 50.00 | 45.93 | 91.87 | 80-120 | |
| 2-Butanone | 100.00 | 87.11 | 87.11 | 80-120 | |
| 2-Chloroethylvinyl ether | 100.00 | 82.24 | 82.24 | 80-120 | |
| 2-Chlorotoluene | 50.00 | 46.75 | 93.51 | 80-120 | |
| 4-Chlorotoluene | 50.00 | 48.40 | 96.80 | 80-120 | |

# Initial Calibration Verification (ICV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

RunID VOA9_437296

## Volatiles by EPA 8260

**Sample Matrix** LIQUID
**Lab Smp Id** ICV
**Level** LOW
**Fraction** VOA
**Client Smp ID** ICV
**Operator** PC

| Compound | Conc Added | Conc Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| p-Isopropyltoluene | 50.00 | 48.52 | 97.04 | 80-120 | |
| 4-Methyl-2-Pentanone | 100.00 | 97.72 | 97.73 | 80-120 | |
| Acetone | 100.00 | 95.43 | 95.43 | 80-120 | |
| Acetonitrile | 500.00 | 437.35 | 87.47 | 80-120 | |
| Allyl Chloride | 50.00 | 43.46 | 86.94 | 80-120 | |
| Benzene | 50.00 | 46.31 | 92.63 | 80-120 | |
| Bromobenzene | 50.00 | 45.71 | 91.42 | 80-120 | |
| Bromochloromethane | 50.00 | 44.93 | 89.87 | 80-120 | |
| Bromodichloromethane | 50.00 | 47.72 | 95.44 | 80-120 | |
| Bromoform | 50.00 | 51.02 | 102.05 | 80-120 | |
| Bromomethane | 50.00 | 55.03 | 110.08 | 80-120 | |
| Carbon Tetrachloride | 50.00 | 44.38 | 88.77 | 80-120 | |
| Chlorobenzene | 50.00 | 45.99 | 91.98 | 80-120 | |
| Chloroethane | 50.00 | 43.12 | 86.25 | 80-120 | |
| Chloroform | 50.00 | 43.97 | 87.95 | 80-120 | |
| Chloromethane | 50.00 | 40.39 | 80.80 | 80-120 | |
| Chloroprene | 50.00 | 42.86 | 85.72 | 80-120 | |
| cis-1,2-Dichloroethene | 50.00 | 44.27 | 88.55 | 80-120 | |
| cis-1,3-Dichloropropene | 50.00 | 44.95 | 89.92 | 80-120 | |
| Dibromochloromethane | 50.00 | 51.79 | 103.58 | 80-120 | |
| Dibromomethane | 50.00 | 45.22 | 90.46 | 80-120 | |
| Dichlorodifluoromethane | 50.00 | 43.44 | 86.88 | 80-120 | |
| Ethylbenzene | 50.00 | 48.34 | 96.69 | 80-120 | |
| Ethyl Methacrylate | 50.00 | 48.75 | 97.51 | 80-120 | |
| Iodomethane | 100.00 | 85.89 | 85.90 | 80-120 | |
| Isobutyl Alcohol | 1000.00 | 1063.31 | 106.33 | 70-130 | |
| Propionitrile | 500.00 | 447.35 | 89.47 | 70-130 | |
| Hexachlorobutadiene | 50.00 | 42.50 | 85.02 | 80-120 | |
| Isopropylbenzene | 50.00 | 48.91 | 97.84 | 80-120 | |
| m,p-Xylenes | 100.00 | 101.18 | 101.18 | 80-120 | |
| Methyl tert-butyl ether | 50.00 | 45.15 | 90.31 | 80-120 | |
| Methylene Chloride | 50.00 | 45.61 | 91.23 | 80-120 | |
| Methacrylonitrile | 50.00 | 47.68 | 95.38 | 80-120 | |
| Methyl Methacrylate | 50.00 | 47.58 | 95.17 | 80-120 | |

# Initial Calibration Verification (ICV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

**RunID** VOA9_437296

## Volatiles by EPA 8260

**Sample Matrix** LIQUID
**Lab Smp Id** ICV
**Level** LOW
**Fraction** VOA
**Client Smp ID** ICV
**Operator** PC

| Compound | Conc Added | Conc Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| n-Butylbenzene | 50.00 | 45.82 | 91.65 | 80-120 | |
| n-Propylbenzene | 50.00 | 49.51 | 99.02 | 80-120 | |
| Naphthalene | 50.00 | 51.00 | 102.01 | 80-120 | |
| o-Xylene | 50.00 | 50.13 | 100.28 | 80-120 | |
| sec-Butylbenzene | 50.00 | 46.73 | 93.47 | 80-120 | |
| Styrene | 50.00 | 52.92 | 105.84 | 80-120 | |
| tert-Butylbenzene | 50.00 | 46.65 | 93.31 | 80-120 | |
| Tetrachloroethene | 50.00 | 45.52 | 91.06 | 80-120 | |
| Toluene | 50.00 | 48.10 | 96.21 | 80-120 | |
| trans-1,2-Dichloroethene | 50.00 | 45.42 | 90.85 | 80-120 | |
| trans-1,3-Dichloropropene | 50.00 | 44.23 | 88.46 | 80-120 | |
| trans-1,4-Dichloro-2-butene | 50.00 | 54.24 | 108.49 | 80-120 | |
| Trichloroethene | 50.00 | 44.64 | 89.28 | 80-120 | |
| Trichlorofluoromethane | 50.00 | 43.95 | 87.91 | 80-120 | |
| Vinyl Acetate | 100.00 | 93.22 | 93.22 | 80-120 | |
| Vinyl Chloride | 50.00 | 44.59 | 89.20 | 80-120 | |
| 1,2-Dichloroethylene (total) | 100.00 | 89.70 | 89.70 | 80-120 | |
| Xylenes (total) | 150.00 | 151.32 | 100.88 | 80-120 | |
| 1,4-Dioxane | 1000.00 | 611.64 | 61.16 | 80-120 | * |
| Dibromofluoromethane | 50.00 | 48.55 | 97.12 | 71-125 | |
| 1,2-Dichloroethane-d4 | 50.00 | 47.70 | 95.40 | 70-125 | |
| Toluene-d8 | 50.00 | 51.59 | 103.20 | 75-125 | |

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Form 7

# Continuing Calibration Verification (CCV)

## Volatiles by EPA 8260

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/22/2023

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

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

**RunID** VOA9_439181

## Volatiles by EPA 8260

**Instrument ID** VOA9.I
**Lab File ID** U061703.D
**Analysis Type** WATER
**Lab Sample ID** CCV

**Injection Date** 17-JUN-2023 12:05
**ICAL Date(s)** 06-JUN-2023 06-JUN-2023
**ICAL Times** 11:15 15:41
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 50.0 | 50.76110 | 0.46902 | 0.100 | -1.52220 | 20.0 | Linear | |
| Chloromethane | 50.0 | 42.14988 | 0.63882 | 0.100 | 15.70024 | 20.0 | Linear | |
| Vinyl Chloride | 0.52887 | 0.51641 | 0.51641 | 0.100 | 2.35650 | 20.0 | Averaged | |
| Bromomethane | 50.0 | 58.18805 | 0.31490 | 0.100 | -16.37610 | 20.0 | Linear | |
| Chloroethane | 0.35626 | 0.34787 | 0.34787 | 0.100 | 2.35635 | 20.0 | Averaged | |
| Trichlorofluoromethane | 0.60742 | 0.72193 | 0.72193 | 0.100 | -18.85181 | 20.0 | Averaged | |
| Acrolein | 0.02654 | 0.02330 | 0.02330 | 0.010 | 12.20675 | 20.0 | Averaged | |
| Acetone | 100 | 112 | 0.19089 | 0.100 | -11.79958 | 20.0 | Linear | |
| 1,1-Dichloroethene | 0.37953 | 0.38690 | 0.38690 | 0.100 | -1.94261 | 20.0 | Averaged | |
| Iodomethane | 100 | 107 | 0.32488 | 0.100 | -7.37615 | 20.0 | Quadratic | |
| Acrylonitrile | 0.18542 | 0.18724 | 0.18724 | 0.050 | -0.97749 | 20.0 | Averaged | |
| Methylene Chloride | 50.0 | 53.32250 | 0.48567 | 0.100 | -6.64501 | 20.0 | Linear | |
| Methyl tert-butyl ether | 1.16385 | 1.20393 | 1.20393 | 0.100 | -3.44398 | 20.0 | Averaged | |
| Carbon Disulfide | 1.01461 | 1.07384 | 1.07384 | 0.100 | -5.83787 | 20.0 | Averaged | |
| trans-1,2-Dichloroethene | 0.41275 | 0.42132 | 0.42132 | 0.100 | -2.07787 | 20.0 | Averaged | |
| Vinyl Acetate | 1.25818 | 1.33560 | 1.33560 | 0.010 | -6.15327 | 20.0 | Averaged | |
| 1,1-Dichloroethane | 0.78439 | 0.75209 | 0.75209 | 0.200 | 4.11741 | 20.0 | Averaged | |
| 2-Butanone | 0.22797 | 0.20907 | 0.20907 | 0.100 | 8.28768 | 20.0 | Averaged | |
| 2,2-Dichloropropane | 50.0 | 56.21807 | 0.58362 | 0.100 | -12.43615 | 20.0 | Linear | |
| cis-1,2-Dichloroethene | 0.49378 | 0.48199 | 0.48199 | 0.100 | 2.38770 | 20.0 | Averaged | |
| Chloroform | 0.81639 | 0.80450 | 0.80450 | 0.200 | 1.45544 | 20.0 | Averaged | |
| Bromochloromethane | 0.27621 | 0.26029 | 0.26029 | 0.100 | 5.76440 | 20.0 | Averaged | |
| 30 Dibromofluoromethane | 50.0 | 49.79210 | 0.41795 | 0.100 | 0.41579 | 20.0 | Linear | |
| 1,1,1-Trichloroethane | 0.62223 | 0.65695 | 0.65695 | 0.100 | -5.58076 | 20.0 | Averaged | |
| 1,1-Dichloropropene | 0.36644 | 0.37674 | 0.37674 | 0.100 | -2.81060 | 20.0 | Averaged | |
| 1,2-Dichloroethane | 0.43276 | 0.46721 | 0.46721 | 0.100 | -7.96003 | 20.0 | Averaged | |
| Carbon Tetrachloride | 0.33660 | 0.37421 | 0.37421 | 0.100 | -11.17353 | 20.0 | Averaged | |
| 35 1,2-Dichloroethane-d4 | 50.0 | 53.27126 | 0.48343 | 0.100 | -6.54251 | 20.0 | Linear | |
| Benzene | 1.20483 | 1.17180 | 1.17180 | 0.500 | 2.74121 | 20.0 | Averaged | |
| Trichloroethene | 0.34921 | 0.33432 | 0.33432 | 0.200 | 4.26534 | 20.0 | Averaged | |
| Bromodichloromethane | 0.37583 | 0.40931 | 0.40931 | 0.200 | -8.90831 | 20.0 | Averaged | |
| 2-Chloroethylvinyl ether | 0.00909 | 0.00407 | 0.00407 | 0.001 | 55.21296 | 20.0 | Averaged | * |
| 1,2-Dichloropropane | 0.32169 | 0.31207 | 0.31207 | 0.100 | 2.99197 | 20.0 | Averaged | |
| Dibromomethane | 0.20554 | 0.21123 | 0.21123 | 0.100 | -2.76883 | 20.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

RunID VOA9_439181

## Volatiles by EPA 8260

**Instrument ID** VOA9.I
**Lab File ID** U061703.D
**Analysis Type** WATER
**Lab Sample ID** CCV

**Injection Date** 17-JUN-2023 12:05
**ICAL Date(s)** 06-JUN-2023 06-JUN-2023
**ICAL Times** 11:15 15:41
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 0.36411 | 0.35741 | 0.35741 | 0.100 | 1.83954 | 20.0 | Averaged | |
| cis-1,3-Dichloropropene | 50.0 | 46.92263 | 0.47130 | 0.200 | 6.15473 | 20.0 | Linear | |
| 48 Toluene-d8 | 1.13164 | 1.12922 | 1.12922 | 0.100 | 0.21407 | 20.0 | Averaged | |
| Toluene | 1.35612 | 1.38377 | 1.38377 | 0.400 | -2.03864 | 20.0 | Averaged | |
| trans-1,3-Dichloropropene | 50.0 | 47.97908 | 0.40482 | 0.100 | 4.04183 | 20.0 | Linear | |
| 2-Hexanone | 0.25357 | 0.23754 | 0.23754 | 0.100 | 6.32133 | 20.0 | Averaged | |
| 1,1,2-Trichloroethane | 0.28217 | 0.27457 | 0.27457 | 0.100 | 2.69279 | 20.0 | Averaged | |
| 1,3-Dichloropropane | 0.57650 | 0.57547 | 0.57547 | 0.100 | 0.17860 | 20.0 | Averaged | |
| Dibromochloromethane | 0.33480 | 0.38577 | 0.38577 | 0.100 | -15.22598 | 20.0 | Averaged | |
| Tetrachloroethene | 0.33041 | 0.33018 | 0.33018 | 0.200 | 0.06699 | 20.0 | Averaged | |
| 1,2-Dibromoethane | 0.34808 | 0.34682 | 0.34682 | 0.100 | 0.36246 | 20.0 | Averaged | |
| 1-Chlorohexane | 0.25674 | 0.25609 | 0.25609 | 0.100 | 0.25493 | 20.0 | Averaged | |
| Chlorobenzene | 0.96786 | 0.95339 | 0.95339 | 0.500 | 1.49535 | 20.0 | Averaged | |
| 1,1,1,2-Tetrachloroethane | 0.33265 | 0.35747 | 0.35747 | 0.100 | -7.45984 | 20.0 | Averaged | |
| Ethylbenzene | 0.45047 | 0.45972 | 0.45972 | 0.100 | -2.05287 | 20.0 | Averaged | |
| m,p-Xylenes | 0.53296 | 0.56334 | 0.56334 | 0.100 | -5.69975 | 20.0 | Averaged | |
| o-Xylene | 0.52651 | 0.54740 | 0.54740 | 0.300 | -3.96789 | 20.0 | Averaged | |
| Styrene | 0.83556 | 0.93004 | 0.93004 | 0.300 | -11.30749 | 20.0 | Averaged | |
| Bromoform | 0.22599 | 0.25376 | 0.25376 | 0.100 | -12.29101 | 20.0 | Averaged | |
| Isopropylbenzene | 1.26463 | 1.36978 | 1.36978 | 0.100 | -8.31490 | 20.0 | Averaged | |
| 1,1,2,2-Tetrachloroethane | 0.94051 | 0.84394 | 0.84394 | 0.300 | 10.26781 | 20.0 | Averaged | |
| 1,2,3-Trichloropropane | 0.82740 | 0.76167 | 0.76167 | 0.100 | 7.94426 | 20.0 | Averaged | |
| n-Propylbenzene | 2.62266 | 2.71333 | 2.71333 | 0.100 | -3.45720 | 20.0 | Averaged | |
| Bromobenzene | 0.84363 | 0.78747 | 0.78747 | 0.100 | 6.65781 | 20.0 | Averaged | |
| 1,3,5-Trimethylbenzene | 1.79927 | 1.79414 | 1.79414 | 0.100 | 0.28500 | 20.0 | Averaged | |
| 2-Chlorotoluene | 1.84364 | 1.80534 | 1.80534 | 0.100 | 2.07750 | 20.0 | Averaged | |
| 4-Chlorotoluene | 2.04071 | 2.08142 | 2.08142 | 0.100 | -1.99467 | 20.0 | Averaged | |
| tert-Butylbenzene | 1.76718 | 1.75623 | 1.75623 | 0.100 | 0.61963 | 20.0 | Averaged | |
| 1,2,4-Trimethylbenzene | 1.88261 | 1.84314 | 1.84314 | 0.100 | 2.09659 | 20.0 | Averaged | |
| sec-Butylbenzene | 2.24110 | 2.26974 | 2.26974 | 0.100 | -1.27805 | 20.0 | Averaged | |
| p-Isopropyltoluene | 1.87752 | 1.92954 | 1.92954 | 0.100 | -2.77086 | 20.0 | Averaged | |
| 1,3-Dichlorobenzene | 1.43286 | 1.35964 | 1.35964 | 0.600 | 5.11008 | 20.0 | Averaged | |
| 1,4-Dichlorobenzene | 1.52773 | 1.42987 | 1.42987 | 0.400 | 6.40581 | 20.0 | Averaged | |
| n-Butylbenzene | 1.60731 | 1.63203 | 1.63203 | 0.500 | -1.53827 | 20.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

RunID VOA9_439181

## Volatiles by EPA 8260

**Instrument ID** VOA9.I
**Lab File ID** U061703.D
**Analysis Type** WATER
**Lab Sample ID** CCV

**Injection Date** 17-JUN-2023 12:05
**ICAL Date(s)** 06-JUN-2023 06-JUN-2023
**ICAL Times** 11:15 15:41
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 1.43664 | 1.36623 | 1.36623 | 0.400 | 4.90130 | 20.0 | Averaged | |
| 1,2-Dibromo-3-Chloropropane | 0.13724 | 0.12751 | 0.12751 | 0.050 | 7.09332 | 20.0 | Averaged | |
| 1,2,4-Trichlorobenzene | 0.98816 | 0.92479 | 0.92479 | 0.200 | 6.41351 | 20.0 | Averaged | |
| Hexachlorobutadiene | 0.39906 | 0.39050 | 0.39050 | 0.100 | 2.14678 | 20.0 | Averaged | |
| Naphthalene | 2.29538 | 2.26555 | 2.26555 | 0.200 | 1.29958 | 20.0 | Averaged | |
| 1,2,3-Trichlorobenzene | 0.96603 | 0.88466 | 0.88466 | 0.100 | 8.42300 | 20.0 | Averaged | |
| 94 1,2-Dichloroethylene (total | 0.45327 | 0.45166 | 0.45166 | 0.200 | 0.35451 | 20.0 | Averaged | |
| 95 Xylenes (total) | 0.50452 | 0.52988 | 0.52988 | 0.100 | -5.02657 | 20.0 | Averaged | |
| 1,4-Dioxane | 0.00993 | 0.00571 | 0.00571 | 0.001 | 42.47730 | 20.0 | Averaged | * |
| Cyclohexane | 50.0 | 45.86516 | 0.56245 | 0.100 | 8.26969 | 20.0 | Quadratic | |
| Freon TF | 0.33580 | 0.37162 | 0.37162 | 0.100 | -10.66534 | 20.0 | Averaged | |
| 1,3-Butadiene | 0.47352 | 0.46459 | 0.46459 | 0.100 | 1.88574 | 20.0 | Averaged | |
| Methylcyclohexane | 0.69360 | 0.71701 | 0.71701 | 0.100 | -3.37498 | 20.0 | Averaged | |
| Methyl Acetate | 0.42100 | 0.40358 | 0.40358 | 0.100 | 4.13978 | 20.0 | Averaged | |
| Tert-butyl alcohol | 1000 | 1000 | 0.04619 | 0.005 | 0.01037 | 20.0 | Linear | |
| Isopropyl alcohol | 0.03269 | 0.02976 | 0.02976 | 0.005 | 8.94610 | 20.0 | Averaged | |
| trans-1,4-Dichloro-2-butene | 0.05757 | 0.06229 | 0.06229 | 0.050 | -8.19830 | 20.0 | Averaged | |
| Isobutyl Alcohol | 0.06496 | 0.07425 | 0.07425 | 0.005 | -14.29174 | 20.0 | Averaged | |
| Acetonitrile | 0.05413 | 0.06222 | 0.06222 | 0.005 | -14.93376 | 20.0 | Averaged | |
| 1,2,3-Trimethylbenzene | 1.92195 | 1.84782 | 1.84782 | 0.100 | 3.85675 | 20.0 | Averaged | |
| Diisopropyl ether | 1.39419 | 1.41027 | 1.41027 | 0.100 | -1.15397 | 20.0 | Averaged | |
| Butyl acrylate | 0.59144 | 0.58387 | 0.58387 | 0.100 | 1.27992 | 20.0 | Averaged | |
| 2-Ethylhexyl Acrylate | 50.0 | 50.77787 | 0.48780 | 0.100 | -1.55574 | 20.0 | Quadratic | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

**RunID** VOA9_439181

## Volatiles by EPA 8260

**Instrument ID** VOA9.I
**Lab File ID** U061731.D
**Analysis Type** WATER
**Lab Sample ID** CCV-END

**Injection Date** 17-JUN-2023 22:32
**ICAL Date(s)** 06-JUN-2023 06-JUN-2023
**ICAL Times** 11:15 15:41
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 50.0 | 43.72035 | 0.40386 | 0.100 | 12.55931 | 50.0 | Linear | |
| Chloromethane | 50.0 | 44.35669 | 0.67123 | 0.100 | 11.28662 | 50.0 | Linear | |
| Vinyl Chloride | 0.52887 | 0.48713 | 0.48713 | 0.100 | 7.89252 | 50.0 | Averaged | |
| Bromomethane | 50.0 | 67.61519 | 0.36435 | 0.100 | -35.23038 | 50.0 | Linear | |
| Chloroethane | 0.35626 | 0.35047 | 0.35047 | 0.100 | 1.62503 | 50.0 | Averaged | |
| Trichlorofluoromethane | 0.60742 | 0.67232 | 0.67232 | 0.100 | -10.68404 | 50.0 | Averaged | |
| Acrolein | 0.02654 | 0.02315 | 0.02315 | 0.010 | 12.78374 | 50.0 | Averaged | |
| Acetone | 100 | 111 | 0.18987 | 0.100 | -11.17109 | 50.0 | Linear | |
| 1,1-Dichloroethene | 0.37953 | 0.37904 | 0.37904 | 0.100 | 0.12800 | 50.0 | Averaged | |
| Iodomethane | 100 | 77.20412 | 0.22038 | 0.100 | 22.79588 | 50.0 | Quadratic | |
| Acrylonitrile | 0.18542 | 0.19779 | 0.19779 | 0.050 | -6.66742 | 50.0 | Averaged | |
| Methylene Chloride | 50.0 | 54.66160 | 0.49763 | 0.100 | -9.32319 | 50.0 | Linear | |
| Methyl tert-butyl ether | 1.16385 | 1.26894 | 1.26894 | 0.100 | -9.02974 | 50.0 | Averaged | |
| Carbon Disulfide | 1.01461 | 1.04538 | 1.04538 | 0.100 | -3.03287 | 50.0 | Averaged | |
| trans-1,2-Dichloroethene | 0.41275 | 0.43287 | 0.43287 | 0.100 | -4.87526 | 50.0 | Averaged | |
| Vinyl Acetate | 1.25818 | 1.38237 | 1.38237 | 0.010 | -9.87008 | 50.0 | Averaged | |
| 1,1-Dichloroethane | 0.78439 | 0.78614 | 0.78614 | 0.200 | -0.22336 | 50.0 | Averaged | |
| 2-Butanone | 0.22797 | 0.21450 | 0.21450 | 0.100 | 5.90524 | 50.0 | Averaged | |
| 2,2-Dichloropropane | 50.0 | 44.87185 | 0.46499 | 0.100 | 10.25630 | 50.0 | Linear | |
| cis-1,2-Dichloroethene | 0.49378 | 0.50477 | 0.50477 | 0.100 | -2.22471 | 50.0 | Averaged | |
| Chloroform | 0.81639 | 0.85757 | 0.85757 | 0.200 | -5.04480 | 50.0 | Averaged | |
| Bromochloromethane | 0.27621 | 0.27323 | 0.27323 | 0.100 | 1.07694 | 50.0 | Averaged | |
| 30 Dibromofluoromethane | 50.0 | 55.54478 | 0.46593 | 0.100 | -11.08956 | 50.0 | Linear | |
| 1,1,1-Trichloroethane | 0.62223 | 0.67147 | 0.67147 | 0.100 | -7.91455 | 50.0 | Averaged | |
| 1,1-Dichloropropene | 0.36644 | 0.36182 | 0.36182 | 0.100 | 1.25963 | 50.0 | Averaged | |
| 1,2-Dichloroethane | 0.43276 | 0.48103 | 0.48103 | 0.100 | -11.15461 | 50.0 | Averaged | |
| Carbon Tetrachloride | 0.33660 | 0.36756 | 0.36756 | 0.100 | -9.20058 | 50.0 | Averaged | |
| 35 1,2-Dichloroethane-d4 | 50.0 | 58.51142 | 0.53038 | 0.100 | -17.02284 | 50.0 | Linear | |
| Benzene | 1.20483 | 1.18457 | 1.18457 | 0.500 | 1.68159 | 50.0 | Averaged | |
| Trichloroethene | 0.34921 | 0.33998 | 0.33998 | 0.200 | 2.64196 | 50.0 | Averaged | |
| Bromodichloromethane | 0.37583 | 0.42222 | 0.42222 | 0.200 | -12.34287 | 50.0 | Averaged | |
| 2-Chloroethylvinyl ether | 0.00909 | 0.00347 | 0.00347 | 0.001 | 61.87869 | 50.0 | Averaged | * |
| 1,2-Dichloropropane | 0.32169 | 0.31354 | 0.31354 | 0.100 | 2.53232 | 50.0 | Averaged | |
| Dibromomethane | 0.20554 | 0.21600 | 0.21600 | 0.100 | -5.08894 | 50.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

RunID VOA9_439181

## Volatiles by EPA 8260

**Instrument ID** VOA9.I
**Lab File ID** U061731.D
**Analysis Type** WATER
**Lab Sample ID** CCV-END

**Injection Date** 17-JUN-2023 22:32
**ICAL Date(s)** 06-JUN-2023 06-JUN-2023
**ICAL Times** 11:15 15:41
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 0.36411 | 0.34573 | 0.34573 | 0.100 | 5.04573 | 50.0 | Averaged | |
| cis-1,3-Dichloropropene | 50.0 | 44.87214 | 0.44983 | 0.200 | 10.25571 | 50.0 | Linear | |
| 48 Toluene-d8 | 1.13164 | 1.14968 | 1.14968 | 0.100 | -1.59417 | 50.0 | Averaged | |
| Toluene | 1.35612 | 1.37941 | 1.37941 | 0.400 | -1.71732 | 50.0 | Averaged | |
| trans-1,3-Dichloropropene | 50.0 | 46.04453 | 0.38778 | 0.100 | 7.91095 | 50.0 | Linear | |
| 2-Hexanone | 0.25357 | 0.23187 | 0.23187 | 0.100 | 8.55878 | 50.0 | Averaged | |
| 1,1,2-Trichloroethane | 0.28217 | 0.27278 | 0.27278 | 0.100 | 3.32790 | 50.0 | Averaged | |
| 1,3-Dichloropropane | 0.57650 | 0.57603 | 0.57603 | 0.100 | 0.08079 | 50.0 | Averaged | |
| Dibromochloromethane | 0.33480 | 0.37213 | 0.37213 | 0.100 | -11.15131 | 50.0 | Averaged | |
| Tetrachloroethene | 0.33041 | 0.32047 | 0.32047 | 0.200 | 3.00633 | 50.0 | Averaged | |
| 1,2-Dibromoethane | 0.34808 | 0.34854 | 0.34854 | 0.100 | -0.13253 | 50.0 | Averaged | |
| 1-Chlorohexane | 0.25674 | 0.24794 | 0.24794 | 0.100 | 3.43013 | 50.0 | Averaged | |
| Chlorobenzene | 0.96786 | 0.95250 | 0.95250 | 0.500 | 1.58729 | 50.0 | Averaged | |
| 1,1,1,2-Tetrachloroethane | 0.33265 | 0.35801 | 0.35801 | 0.100 | -7.62173 | 50.0 | Averaged | |
| Ethylbenzene | 0.45047 | 0.45931 | 0.45931 | 0.100 | -1.96085 | 50.0 | Averaged | |
| m,p-Xylenes | 0.53296 | 0.56745 | 0.56745 | 0.100 | -6.47147 | 50.0 | Averaged | |
| o-Xylene | 0.52651 | 0.55118 | 0.55118 | 0.300 | -4.68413 | 50.0 | Averaged | |
| Styrene | 0.83556 | 0.90994 | 0.90994 | 0.300 | -8.90136 | 50.0 | Averaged | |
| Bromoform | 0.22599 | 0.24872 | 0.24872 | 0.100 | -10.05885 | 50.0 | Averaged | |
| Isopropylbenzene | 1.26463 | 1.36204 | 1.36204 | 0.100 | -7.70307 | 50.0 | Averaged | |
| 1,1,2,2-Tetrachloroethane | 0.94051 | 0.87757 | 0.87757 | 0.300 | 6.69236 | 50.0 | Averaged | |
| 1,2,3-Trichloropropane | 0.82740 | 0.76365 | 0.76365 | 0.100 | 7.70509 | 50.0 | Averaged | |
| n-Propylbenzene | 2.62266 | 2.63944 | 2.63944 | 0.100 | -0.63990 | 50.0 | Averaged | |
| Bromobenzene | 0.84363 | 0.80446 | 0.80446 | 0.100 | 4.64334 | 50.0 | Averaged | |
| 1,3,5-Trimethylbenzene | 1.79927 | 1.81641 | 1.81641 | 0.100 | -0.95294 | 50.0 | Averaged | |
| 2-Chlorotoluene | 1.84364 | 1.86055 | 1.86055 | 0.100 | -0.91713 | 50.0 | Averaged | |
| 4-Chlorotoluene | 2.04071 | 2.11127 | 2.11127 | 0.100 | -3.45732 | 50.0 | Averaged | |
| tert-Butylbenzene | 1.76718 | 1.78681 | 1.78681 | 0.100 | -1.11058 | 50.0 | Averaged | |
| 1,2,4-Trimethylbenzene | 1.88261 | 1.81431 | 1.81431 | 0.100 | 3.62793 | 50.0 | Averaged | |
| sec-Butylbenzene | 2.24110 | 2.26802 | 2.26802 | 0.100 | -1.20159 | 50.0 | Averaged | |
| p-Isopropyltoluene | 1.87752 | 1.85137 | 1.85137 | 0.100 | 1.39263 | 50.0 | Averaged | |
| 1,3-Dichlorobenzene | 1.43286 | 1.37604 | 1.37604 | 0.600 | 3.96569 | 50.0 | Averaged | |
| 1,4-Dichlorobenzene | 1.52773 | 1.43474 | 1.43474 | 0.400 | 6.08694 | 50.0 | Averaged | |
| n-Butylbenzene | 1.60731 | 1.52707 | 1.52707 | 0.500 | 4.99218 | 50.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

RunID VOA9_439181

## Volatiles by EPA 8260

**Instrument ID** VOA9.I
**Lab File ID** U061731.D
**Analysis Type** WATER
**Lab Sample ID** CCV-END

**Injection Date** 17-JUN-2023 22:32
**ICAL Date(s)** 06-JUN-2023 06-JUN-2023
**ICAL Times** 11:15 15:41
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 1.43664 | 1.40646 | 1.40646 | 0.400 | 2.10090 | 50.0 | Averaged | |
| 1,2-Dibromo-3-Chloropropane | 0.13724 | 0.12693 | 0.12693 | 0.050 | 7.51385 | 50.0 | Averaged | |
| 1,2,4-Trichlorobenzene | 0.98816 | 0.89550 | 0.89550 | 0.200 | 9.37728 | 50.0 | Averaged | |
| Hexachlorobutadiene | 0.39906 | 0.34633 | 0.34633 | 0.100 | 13.21372 | 50.0 | Averaged | |
| Naphthalene | 2.29538 | 2.18211 | 2.18211 | 0.200 | 4.93488 | 50.0 | Averaged | |
| 1,2,3-Trichlorobenzene | 0.96603 | 0.87207 | 0.87207 | 0.100 | 9.72694 | 50.0 | Averaged | |
| 94 1,2-Dichloroethylene (total | 0.45327 | 0.46882 | 0.46882 | 0.200 | -3.43151 | 50.0 | Averaged | |
| 95 Xylenes (total) | 0.50452 | 0.55214 | 0.55214 | 0.100 | -9.43934 | 50.0 | Averaged | |
| 1,4-Dioxane | 0.00993 | 0.00621 | 0.00621 | 0.001 | 37.47074 | 50.0 | Averaged | |
| Cyclohexane | 50.0 | 43.48052 | 0.53241 | 0.100 | 13.03896 | 50.0 | Quadratic | |
| Freon TF | 0.33580 | 0.35207 | 0.35207 | 0.100 | -4.84248 | 50.0 | Averaged | |
| 1,3-Butadiene | 0.47352 | 0.41170 | 0.41170 | 0.100 | 13.05538 | 50.0 | Averaged | |
| Methylcyclohexane | 0.69360 | 0.70688 | 0.70688 | 0.100 | -1.91532 | 50.0 | Averaged | |
| Methyl Acetate | 0.42100 | 0.41197 | 0.41197 | 0.100 | 2.14463 | 50.0 | Averaged | |
| Tert-butyl alcohol | 1000 | 1034 | 0.04776 | 0.005 | -3.40349 | 50.0 | Linear | |
| Isopropyl alcohol | 0.03269 | 0.03135 | 0.03135 | 0.005 | 4.07526 | 50.0 | Averaged | |
| trans-1,4-Dichloro-2-butene | 0.05757 | 0.05512 | 0.05512 | 0.050 | 4.26083 | 50.0 | Averaged | |
| Isobutyl Alcohol | 0.06496 | 0.07812 | 0.07812 | 0.005 | -20.25065 | 50.0 | Averaged | |
| Acetonitrile | 0.05413 | 0.06380 | 0.06380 | 0.005 | -17.85097 | 50.0 | Averaged | |
| 1,2,3-Trimethylbenzene | 1.92195 | 1.92551 | 1.92551 | 0.100 | -0.18517 | 50.0 | Averaged | |
| Diisopropyl ether | 1.39419 | 1.52706 | 1.52706 | 0.100 | -9.53088 | 50.0 | Averaged | |
| Butyl acrylate | 0.59144 | 0.56572 | 0.56572 | 0.100 | 4.34881 | 50.0 | Averaged | |
| 2-Ethylhexyl Acrylate | 50.0 | 46.99085 | 0.44830 | 0.100 | 6.01830 | 50.0 | Quadratic | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

**RunID** VOA9_439270

## Volatiles by EPA 8260

**Instrument ID** VOA9.I
**Lab File ID** U061903.D
**Analysis Type** WATER
**Lab Sample ID** CCV

**Injection Date** 19-JUN-2023 11:23
**ICAL Date(s)** 06-JUN-2023 06-JUN-2023
**ICAL Times** 11:15 15:41
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 50.0 | 47.72485 | 0.44092 | 0.100 | 4.55030 | 20.0 | Linear | |
| Chloromethane | 50.0 | 41.28488 | 0.62611 | 0.100 | 17.43024 | 20.0 | Linear | |
| Vinyl Chloride | 0.52887 | 0.48610 | 0.48610 | 0.100 | 8.08848 | 20.0 | Averaged | |
| Bromomethane | 50.0 | 56.83314 | 0.30779 | 0.100 | -13.66627 | 20.0 | Linear | |
| Chloroethane | 0.35626 | 0.33882 | 0.33882 | 0.100 | 4.89768 | 20.0 | Averaged | |
| Trichlorofluoromethane | 0.60742 | 0.70246 | 0.70246 | 0.100 | -15.64616 | 20.0 | Averaged | |
| Acrolein | 0.02654 | 0.02753 | 0.02753 | 0.010 | -3.71640 | 20.0 | Averaged | |
| Acetone | 100 | 127 | 0.21633 | 0.100 | -27.45952 | 20.0 | Linear | * |
| 1,1-Dichloroethene | 0.37953 | 0.38037 | 0.38037 | 0.100 | -0.22270 | 20.0 | Averaged | |
| Iodomethane | 100 | 111 | 0.33886 | 0.100 | -11.32720 | 20.0 | Quadratic | |
| Acrylonitrile | 0.18542 | 0.19370 | 0.19370 | 0.050 | -4.46289 | 20.0 | Averaged | |
| Methylene Chloride | 50.0 | 52.23365 | 0.47594 | 0.100 | -4.46731 | 20.0 | Linear | |
| Methyl tert-butyl ether | 1.16385 | 1.24711 | 1.24711 | 0.100 | -7.15370 | 20.0 | Averaged | |
| Carbon Disulfide | 1.01461 | 1.03600 | 1.03600 | 0.100 | -2.10824 | 20.0 | Averaged | |
| trans-1,2-Dichloroethene | 0.41275 | 0.41764 | 0.41764 | 0.100 | -1.18660 | 20.0 | Averaged | |
| Vinyl Acetate | 1.25818 | 1.41183 | 1.41183 | 0.010 | -12.21181 | 20.0 | Averaged | |
| 1,1-Dichloroethane | 0.78439 | 0.76046 | 0.76046 | 0.200 | 3.05044 | 20.0 | Averaged | |
| 2-Butanone | 0.22797 | 0.23302 | 0.23302 | 0.100 | -2.21460 | 20.0 | Averaged | |
| 2,2-Dichloropropane | 50.0 | 56.43703 | 0.58591 | 0.100 | -12.87407 | 20.0 | Linear | |
| cis-1,2-Dichloroethene | 0.49378 | 0.48629 | 0.48629 | 0.100 | 1.51813 | 20.0 | Averaged | |
| Chloroform | 0.81639 | 0.82411 | 0.82411 | 0.200 | -0.94618 | 20.0 | Averaged | |
| Bromochloromethane | 0.27621 | 0.27228 | 0.27228 | 0.100 | 1.42367 | 20.0 | Averaged | |
| 30 Dibromofluoromethane | 50.0 | 52.30303 | 0.43889 | 0.100 | -4.60606 | 20.0 | Linear | |
| 1,1,1-Trichloroethane | 0.62223 | 0.65435 | 0.65435 | 0.100 | -5.16359 | 20.0 | Averaged | |
| 1,1-Dichloropropene | 0.36644 | 0.37854 | 0.37854 | 0.100 | -3.30351 | 20.0 | Averaged | |
| 1,2-Dichloroethane | 0.43276 | 0.49208 | 0.49208 | 0.100 | -13.70597 | 20.0 | Averaged | |
| Carbon Tetrachloride | 0.33660 | 0.38116 | 0.38116 | 0.100 | -13.24050 | 20.0 | Averaged | |
| 35 1,2-Dichloroethane-d4 | 50.0 | 56.99252 | 0.51677 | 0.100 | -13.98505 | 20.0 | Linear | |
| Benzene | 1.20483 | 1.18186 | 1.18186 | 0.500 | 1.90615 | 20.0 | Averaged | |
| Trichloroethene | 0.34921 | 0.33433 | 0.33433 | 0.200 | 4.25965 | 20.0 | Averaged | |
| Bromodichloromethane | 0.37583 | 0.42351 | 0.42351 | 0.200 | -12.68692 | 20.0 | Averaged | |
| 2-Chloroethylvinyl ether | 0.00909 | 0.00365 | 0.00365 | 0.001 | 59.89074 | 20.0 | Averaged | * |
| 1,2-Dichloropropane | 0.32169 | 0.32009 | 0.32009 | 0.100 | 0.49685 | 20.0 | Averaged | |
| Dibromomethane | 0.20554 | 0.22100 | 0.22100 | 0.100 | -7.52113 | 20.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

RunID VOA9_439270

## Volatiles by EPA 8260

**Instrument ID** VOA9.I
**Lab File ID** U061903.D
**Analysis Type** WATER
**Lab Sample ID** CCV

**Injection Date** 19-JUN-2023 11:23
**ICAL Date(s)** 06-JUN-2023 06-JUN-2023
**ICAL Times** 11:15 15:41
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 0.36411 | 0.38035 | 0.38035 | 0.100 | -4.46105 | 20.0 | Averaged | |
| cis-1,3-Dichloropropene | 50.0 | 47.98753 | 0.48245 | 0.200 | 4.02494 | 20.0 | Linear | |
| 48 Toluene-d8 | 1.13164 | 1.13798 | 1.13798 | 0.100 | -0.55949 | 20.0 | Averaged | |
| Toluene | 1.35612 | 1.36465 | 1.36465 | 0.400 | -0.62833 | 20.0 | Averaged | |
| trans-1,3-Dichloropropene | 50.0 | 50.39078 | 0.42607 | 0.100 | -0.78157 | 20.0 | Linear | |
| 2-Hexanone | 0.25357 | 0.24894 | 0.24894 | 0.100 | 1.82680 | 20.0 | Averaged | |
| 1,1,2-Trichloroethane | 0.28217 | 0.27448 | 0.27448 | 0.100 | 2.72334 | 20.0 | Averaged | |
| 1,3-Dichloropropane | 0.57650 | 0.58436 | 0.58436 | 0.100 | -1.36274 | 20.0 | Averaged | |
| Dibromochloromethane | 0.33480 | 0.38557 | 0.38557 | 0.100 | -15.16403 | 20.0 | Averaged | |
| Tetrachloroethene | 0.33041 | 0.32169 | 0.32169 | 0.200 | 2.63849 | 20.0 | Averaged | |
| 1,2-Dibromoethane | 0.34808 | 0.36209 | 0.36209 | 0.100 | -4.02524 | 20.0 | Averaged | |
| 1-Chlorohexane | 0.25674 | 0.26225 | 0.26225 | 0.100 | -2.14481 | 20.0 | Averaged | |
| Chlorobenzene | 0.96786 | 0.97316 | 0.97316 | 0.500 | -0.54733 | 20.0 | Averaged | |
| 1,1,1,2-Tetrachloroethane | 0.33265 | 0.35603 | 0.35603 | 0.100 | -7.02810 | 20.0 | Averaged | |
| Ethylbenzene | 0.45047 | 0.45964 | 0.45964 | 0.100 | -2.03514 | 20.0 | Averaged | |
| m,p-Xylenes | 0.53296 | 0.58036 | 0.58036 | 0.100 | -8.89373 | 20.0 | Averaged | |
| o-Xylene | 0.52651 | 0.56611 | 0.56611 | 0.300 | -7.52042 | 20.0 | Averaged | |
| Styrene | 0.83556 | 0.95178 | 0.95178 | 0.300 | -13.90863 | 20.0 | Averaged | |
| Bromoform | 0.22599 | 0.26381 | 0.26381 | 0.100 | -16.73715 | 20.0 | Averaged | |
| Isopropylbenzene | 1.26463 | 1.38304 | 1.38304 | 0.100 | -9.36341 | 20.0 | Averaged | |
| 1,1,2,2-Tetrachloroethane | 0.94051 | 0.90280 | 0.90280 | 0.300 | 4.00989 | 20.0 | Averaged | |
| 1,2,3-Trichloropropane | 0.82740 | 0.82064 | 0.82064 | 0.100 | 0.81686 | 20.0 | Averaged | |
| n-Propylbenzene | 2.62266 | 2.67785 | 2.67785 | 0.100 | -2.10433 | 20.0 | Averaged | |
| Bromobenzene | 0.84363 | 0.81160 | 0.81160 | 0.100 | 3.79671 | 20.0 | Averaged | |
| 1,3,5-Trimethylbenzene | 1.79927 | 1.80497 | 1.80497 | 0.100 | -0.31721 | 20.0 | Averaged | |
| 2-Chlorotoluene | 1.84364 | 1.83505 | 1.83505 | 0.100 | 0.46608 | 20.0 | Averaged | |
| 4-Chlorotoluene | 2.04071 | 2.09794 | 2.09794 | 0.100 | -2.80446 | 20.0 | Averaged | |
| tert-Butylbenzene | 1.76718 | 1.79560 | 1.79560 | 0.100 | -1.60804 | 20.0 | Averaged | |
| 1,2,4-Trimethylbenzene | 1.88261 | 1.90605 | 1.90605 | 0.100 | -1.24500 | 20.0 | Averaged | |
| sec-Butylbenzene | 2.24110 | 2.27888 | 2.27888 | 0.100 | -1.68597 | 20.0 | Averaged | |
| p-Isopropyltoluene | 1.87752 | 1.94052 | 1.94052 | 0.100 | -3.35578 | 20.0 | Averaged | |
| 1,3-Dichlorobenzene | 1.43286 | 1.38445 | 1.38445 | 0.600 | 3.37855 | 20.0 | Averaged | |
| 1,4-Dichlorobenzene | 1.52773 | 1.45023 | 1.45023 | 0.400 | 5.07269 | 20.0 | Averaged | |
| n-Butylbenzene | 1.60731 | 1.65793 | 1.65793 | 0.500 | -3.14947 | 20.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

RunID VOA9_439270

## Volatiles by EPA 8260

**Instrument ID** VOA9.I
**Lab File ID** U061903.D
**Analysis Type** WATER
**Lab Sample ID** CCV

**Injection Date** 19-JUN-2023 11:23
**ICAL Date(s)** 06-JUN-2023 06-JUN-2023
**ICAL Times** 11:15 15:41
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 1.43664 | 1.38582 | 1.38582 | 0.400 | 3.53761 | 20.0 | Averaged | |
| 1,2-Dibromo-3-Chloropropane | 0.13724 | 0.13839 | 0.13839 | 0.050 | -0.83426 | 20.0 | Averaged | |
| 1,2,4-Trichlorobenzene | 0.98816 | 0.93890 | 0.93890 | 0.200 | 4.98556 | 20.0 | Averaged | |
| Hexachlorobutadiene | 0.39906 | 0.39010 | 0.39010 | 0.100 | 2.24730 | 20.0 | Averaged | |
| Naphthalene | 2.29538 | 2.40580 | 2.40580 | 0.200 | -4.81035 | 20.0 | Averaged | |
| 1,2,3-Trichlorobenzene | 0.96603 | 0.90968 | 0.90968 | 0.100 | 5.83296 | 20.0 | Averaged | |
| 94 1,2-Dichloroethylene (total | 0.45327 | 0.45197 | 0.45197 | 0.200 | 0.28666 | 20.0 | Averaged | |
| 95 Xylenes (total) | 0.50452 | 0.57082 | 0.57082 | 0.100 | -13.14215 | 20.0 | Averaged | |
| 1,4-Dioxane | 0.00993 | 0.00669 | 0.00669 | 0.001 | 32.61636 | 20.0 | Averaged | * |
| Cyclohexane | 50.0 | 46.64585 | 0.57230 | 0.100 | 6.70830 | 20.0 | Quadratic | |
| Freon TF | 0.33580 | 0.37559 | 0.37559 | 0.100 | -11.84871 | 20.0 | Averaged | |
| 1,3-Butadiene | 0.47352 | 0.46256 | 0.46256 | 0.100 | 2.31388 | 20.0 | Averaged | |
| Methylcyclohexane | 0.69360 | 0.72379 | 0.72379 | 0.100 | -4.35233 | 20.0 | Averaged | |
| Methyl Acetate | 0.42100 | 0.43958 | 0.43958 | 0.100 | -4.41247 | 20.0 | Averaged | |
| Tert-butyl alcohol | 1000 | 1127 | 0.05203 | 0.005 | -12.67868 | 20.0 | Linear | |
| Isopropyl alcohol | 0.03269 | 0.03401 | 0.03401 | 0.005 | -4.05499 | 20.0 | Averaged | |
| trans-1,4-Dichloro-2-butene | 0.05757 | 0.06742 | 0.06742 | 0.050 | -17.10151 | 20.0 | Averaged | |
| Isobutyl Alcohol | 0.06496 | 0.07308 | 0.07308 | 0.005 | -12.49556 | 20.0 | Averaged | |
| Acetonitrile | 0.05413 | 0.06127 | 0.06127 | 0.005 | -13.17968 | 20.0 | Averaged | |
| Allyl Chloride | 1.29812 | 1.29968 | 1.29968 | 0.100 | -0.11976 | 20.0 | Averaged | |
| Methacrylonitrile | 0.29541 | 0.29527 | 0.29527 | 0.100 | 0.04774 | 20.0 | Averaged | |
| Methyl Methacrylate | 0.42991 | 0.45545 | 0.45545 | 0.100 | -5.94037 | 20.0 | Averaged | |
| Propionitrile | 0.07225 | 0.07278 | 0.07278 | 0.010 | -0.73303 | 20.0 | Averaged | |
| n-Hexane | 50.0 | 53.58444 | 0.44893 | 0.100 | -7.16889 | 20.0 | Quadratic | |
| Acetaldehyde | 0.06896 | 0.06582 | 0.06582 | 0.001 | 4.55596 | 20.0 | Averaged | |
| Methyl Acrylate | 0.52880 | 0.56146 | 0.56146 | 0.100 | -6.17607 | 20.0 | Averaged | |
| Ethyl Methacrylate | 0.43830 | 0.47462 | 0.47462 | 0.100 | -8.28680 | 20.0 | Averaged | |
| 1,2,3-Trimethylbenzene | 1.92195 | 1.87578 | 1.87578 | 0.100 | 2.40221 | 20.0 | Averaged | |
| Diisopropyl ether | 1.39419 | 1.44623 | 1.44623 | 0.100 | -3.73310 | 20.0 | Averaged | |
| Butyl acrylate | 0.59144 | 0.59633 | 0.59633 | 0.100 | -0.82684 | 20.0 | Averaged | |
| 2-Ethylhexyl Acrylate | 50.0 | 51.53051 | 0.49569 | 0.100 | -3.06103 | 20.0 | Quadratic | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

RunID VOA9_439270

## Volatiles by EPA 8260

**Instrument ID** VOA9.I
**Lab File ID** U061921.D
**Analysis Type** WATER
**Lab Sample ID** CCV-END

**Injection Date** 19-JUN-2023 18:06
**ICAL Date(s)** 06-JUN-2023 06-JUN-2023
**ICAL Times** 11:15 15:41
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 50.0 | 44.33765 | 0.40957 | 0.100 | 11.32471 | 50.0 | Linear | |
| Chloromethane | 50.0 | 40.07689 | 0.60837 | 0.100 | 19.84621 | 50.0 | Linear | |
| Vinyl Chloride | 0.52887 | 0.46328 | 0.46328 | 0.100 | 12.40314 | 50.0 | Averaged | |
| Bromomethane | 50.0 | 53.71771 | 0.29145 | 0.100 | -7.43542 | 50.0 | Linear | |
| Chloroethane | 0.35626 | 0.32048 | 0.32048 | 0.100 | 10.04375 | 50.0 | Averaged | |
| Trichlorofluoromethane | 0.60742 | 0.66083 | 0.66083 | 0.100 | -8.79313 | 50.0 | Averaged | |
| Acrolein | 0.02654 | 0.02415 | 0.02415 | 0.010 | 8.99468 | 50.0 | Averaged | |
| Acetone | 100 | 105 | 0.17912 | 0.100 | -4.55637 | 50.0 | Linear | |
| 1,1-Dichloroethene | 0.37953 | 0.35936 | 0.35936 | 0.100 | 5.31467 | 50.0 | Averaged | |
| Iodomethane | 100 | 97.64388 | 0.29074 | 0.100 | 2.35612 | 50.0 | Quadratic | |
| Acrylonitrile | 0.18542 | 0.19196 | 0.19196 | 0.050 | -3.52433 | 50.0 | Averaged | |
| Methylene Chloride | 50.0 | 50.90301 | 0.46405 | 0.100 | -1.80602 | 50.0 | Linear | |
| Methyl tert-butyl ether | 1.16385 | 1.21584 | 1.21584 | 0.100 | -4.46686 | 50.0 | Averaged | |
| Carbon Disulfide | 1.01461 | 0.98264 | 0.98264 | 0.100 | 3.15116 | 50.0 | Averaged | |
| trans-1,2-Dichloroethene | 0.41275 | 0.40118 | 0.40118 | 0.100 | 2.80148 | 50.0 | Averaged | |
| Vinyl Acetate | 1.25818 | 1.32430 | 1.32430 | 0.010 | -5.25479 | 50.0 | Averaged | |
| 1,1-Dichloroethane | 0.78439 | 0.73956 | 0.73956 | 0.200 | 5.71512 | 50.0 | Averaged | |
| 2-Butanone | 0.22797 | 0.21594 | 0.21594 | 0.100 | 5.27627 | 50.0 | Averaged | |
| 2,2-Dichloropropane | 50.0 | 49.39874 | 0.51232 | 0.100 | 1.20251 | 50.0 | Linear | |
| cis-1,2-Dichloroethene | 0.49378 | 0.47620 | 0.47620 | 0.100 | 3.56123 | 50.0 | Averaged | |
| Chloroform | 0.81639 | 0.81921 | 0.81921 | 0.200 | -0.34637 | 50.0 | Averaged | |
| Bromochloromethane | 0.27621 | 0.26096 | 0.26096 | 0.100 | 5.52176 | 50.0 | Averaged | |
| 30 Dibromofluoromethane | 50.0 | 54.36722 | 0.45611 | 0.100 | -8.73445 | 50.0 | Linear | |
| 1,1,1-Trichloroethane | 0.62223 | 0.62402 | 0.62402 | 0.100 | -0.28782 | 50.0 | Averaged | |
| 1,1-Dichloropropene | 0.36644 | 0.34984 | 0.34984 | 0.100 | 4.53021 | 50.0 | Averaged | |
| 1,2-Dichloroethane | 0.43276 | 0.46887 | 0.46887 | 0.100 | -8.34447 | 50.0 | Averaged | |
| Carbon Tetrachloride | 0.33660 | 0.34429 | 0.34429 | 0.100 | -2.28686 | 50.0 | Averaged | |
| 35 1,2-Dichloroethane-d4 | 50.0 | 58.55051 | 0.53073 | 0.100 | -17.10102 | 50.0 | Linear | |
| Benzene | 1.20483 | 1.13335 | 1.13335 | 0.500 | 5.93287 | 50.0 | Averaged | |
| Trichloroethene | 0.34921 | 0.31883 | 0.31883 | 0.200 | 8.69917 | 50.0 | Averaged | |
| Bromodichloromethane | 0.37583 | 0.39970 | 0.39970 | 0.200 | -6.35247 | 50.0 | Averaged | |
| 2-Chloroethylvinyl ether | 0.00909 | 0.00313 | 0.00313 | 0.001 | 65.54163 | 50.0 | Averaged | * |
| 1,2-Dichloropropane | 0.32169 | 0.30545 | 0.30545 | 0.100 | 5.04800 | 50.0 | Averaged | |
| Dibromomethane | 0.20554 | 0.21395 | 0.21395 | 0.100 | -4.08881 | 50.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

RunID VOA9_439270

## Volatiles by EPA 8260

**Instrument ID** VOA9.I
**Lab File ID** U061921.D
**Analysis Type** WATER
**Lab Sample ID** CCV-END

**Injection Date** 19-JUN-2023 18:06
**ICAL Date(s)** 06-JUN-2023 06-JUN-2023
**ICAL Times** 11:15 15:41
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 0.36411 | 0.34090 | 0.34090 | 0.100 | 6.37272 | 50.0 | Averaged | |
| cis-1,3-Dichloropropene | 50.0 | 44.87850 | 0.44990 | 0.200 | 10.24301 | 50.0 | Linear | |
| 48 Toluene-d8 | 1.13164 | 1.14293 | 1.14293 | 0.100 | -0.99732 | 50.0 | Averaged | |
| Toluene | 1.35612 | 1.27448 | 1.27448 | 0.400 | 6.02061 | 50.0 | Averaged | |
| trans-1,3-Dichloropropene | 50.0 | 45.96591 | 0.38709 | 0.100 | 8.06818 | 50.0 | Linear | |
| 2-Hexanone | 0.25357 | 0.22779 | 0.22779 | 0.100 | 10.16468 | 50.0 | Averaged | |
| 1,1,2-Trichloroethane | 0.28217 | 0.26087 | 0.26087 | 0.100 | 7.54909 | 50.0 | Averaged | |
| 1,3-Dichloropropane | 0.57650 | 0.54540 | 0.54540 | 0.100 | 5.39476 | 50.0 | Averaged | |
| Dibromochloromethane | 0.33480 | 0.35947 | 0.35947 | 0.100 | -7.36864 | 50.0 | Averaged | |
| Tetrachloroethene | 0.33041 | 0.28485 | 0.28485 | 0.200 | 13.78786 | 50.0 | Averaged | |
| 1,2-Dibromoethane | 0.34808 | 0.33514 | 0.33514 | 0.100 | 3.71853 | 50.0 | Averaged | |
| 1-Chlorohexane | 0.25674 | 0.23058 | 0.23058 | 0.100 | 10.18974 | 50.0 | Averaged | |
| Chlorobenzene | 0.96786 | 0.89512 | 0.89512 | 0.500 | 7.51560 | 50.0 | Averaged | |
| 1,1,1,2-Tetrachloroethane | 0.33265 | 0.33425 | 0.33425 | 0.100 | -0.48072 | 50.0 | Averaged | |
| Ethylbenzene | 0.45047 | 0.41461 | 0.41461 | 0.100 | 7.96085 | 50.0 | Averaged | |
| m,p-Xylenes | 0.53296 | 0.51670 | 0.51670 | 0.100 | 3.05225 | 50.0 | Averaged | |
| o-Xylene | 0.52651 | 0.51084 | 0.51084 | 0.300 | 2.97660 | 50.0 | Averaged | |
| Styrene | 0.83556 | 0.86431 | 0.86431 | 0.300 | -3.44061 | 50.0 | Averaged | |
| Bromoform | 0.22599 | 0.23989 | 0.23989 | 0.100 | -6.15004 | 50.0 | Averaged | |
| Isopropylbenzene | 1.26463 | 1.20997 | 1.20997 | 0.100 | 4.32166 | 50.0 | Averaged | |
| 1,1,2,2-Tetrachloroethane | 0.94051 | 0.83875 | 0.83875 | 0.300 | 10.81992 | 50.0 | Averaged | |
| 1,2,3-Trichloropropane | 0.82740 | 0.76275 | 0.76275 | 0.100 | 7.81400 | 50.0 | Averaged | |
| n-Propylbenzene | 2.62266 | 2.39013 | 2.39013 | 0.100 | 8.86609 | 50.0 | Averaged | |
| Bromobenzene | 0.84363 | 0.75647 | 0.75647 | 0.100 | 10.33256 | 50.0 | Averaged | |
| 1,3,5-Trimethylbenzene | 1.79927 | 1.57817 | 1.57817 | 0.100 | 12.28821 | 50.0 | Averaged | |
| 2-Chlorotoluene | 1.84364 | 1.67035 | 1.67035 | 0.100 | 9.39922 | 50.0 | Averaged | |
| 4-Chlorotoluene | 2.04071 | 1.90836 | 1.90836 | 0.100 | 6.48560 | 50.0 | Averaged | |
| tert-Butylbenzene | 1.76718 | 1.55362 | 1.55362 | 0.100 | 12.08486 | 50.0 | Averaged | |
| 1,2,4-Trimethylbenzene | 1.88261 | 1.63146 | 1.63146 | 0.100 | 13.34042 | 50.0 | Averaged | |
| sec-Butylbenzene | 2.24110 | 1.96106 | 1.96106 | 0.100 | 12.49565 | 50.0 | Averaged | |
| p-Isopropyltoluene | 1.87752 | 1.63946 | 1.63946 | 0.100 | 12.67955 | 50.0 | Averaged | |
| 1,3-Dichlorobenzene | 1.43286 | 1.24011 | 1.24011 | 0.600 | 13.45211 | 50.0 | Averaged | |
| 1,4-Dichlorobenzene | 1.52773 | 1.30738 | 1.30738 | 0.400 | 14.42359 | 50.0 | Averaged | |
| n-Butylbenzene | 1.60731 | 1.33550 | 1.33550 | 0.500 | 16.91100 | 50.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

RunID VOA9_439270

## Volatiles by EPA 8260

**Instrument ID** VOA9.I
**Lab File ID** U061921.D
**Analysis Type** WATER
**Lab Sample ID** CCV-END

**Injection Date** 19-JUN-2023 18:06
**ICAL Date(s)** 06-JUN-2023 06-JUN-2023
**ICAL Times** 11:15 15:41
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF50 / Conc | CCV RRF50 | Min RRF | %D / %Drift | Max %D / %Drift | Curve Type | Q |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 1.43664 | 1.27635 | 1.27635 | 0.400 | 11.15784 | 50.0 | Averaged | |
| 1,2-Dibromo-3-Chloropropane | 0.13724 | 0.11927 | 0.11927 | 0.050 | 13.09711 | 50.0 | Averaged | |
| 1,2,4-Trichlorobenzene | 0.98816 | 0.80704 | 0.80704 | 0.200 | 18.32928 | 50.0 | Averaged | |
| Hexachlorobutadiene | 0.39906 | 0.30674 | 0.30674 | 0.100 | 23.13475 | 50.0 | Averaged | |
| Naphthalene | 2.29538 | 2.00938 | 2.00938 | 0.200 | 12.45962 | 50.0 | Averaged | |
| 1,2,3-Trichlorobenzene | 0.96603 | 0.81091 | 0.81091 | 0.100 | 16.05784 | 50.0 | Averaged | |
| 94 1,2-Dichloroethylene (total | 0.45327 | 0.43869 | 0.43869 | 0.200 | 3.21531 | 50.0 | Averaged | |
| 95 Xylenes (total) | 0.50452 | 0.51856 | 0.51856 | 0.100 | -2.78257 | 50.0 | Averaged | |
| 1,4-Dioxane | 0.00993 | 0.00639 | 0.00639 | 0.001 | 35.62721 | 50.0 | Averaged | |
| Cyclohexane | 50.0 | 41.06361 | 0.50204 | 0.100 | 17.87278 | 50.0 | Quadratic | |
| Freon TF | 0.33580 | 0.33300 | 0.33300 | 0.100 | 0.83636 | 50.0 | Averaged | |
| 1,3-Butadiene | 0.47352 | 0.41825 | 0.41825 | 0.100 | 11.67114 | 50.0 | Averaged | |
| Methylcyclohexane | 0.69360 | 0.68726 | 0.68726 | 0.100 | 0.91312 | 50.0 | Averaged | |
| Methyl Acetate | 0.42100 | 0.40760 | 0.40760 | 0.100 | 3.18439 | 50.0 | Averaged | |
| Tert-butyl alcohol | 1000 | 1023 | 0.04724 | 0.005 | -2.27270 | 50.0 | Linear | |
| Isopropyl alcohol | 0.03269 | 0.03079 | 0.03079 | 0.005 | 5.81189 | 50.0 | Averaged | |
| trans-1,4-Dichloro-2-butene | 0.05757 | 0.05657 | 0.05657 | 0.050 | 1.73288 | 50.0 | Averaged | |
| Isobutyl Alcohol | 0.06496 | 0.07526 | 0.07526 | 0.005 | -15.85395 | 50.0 | Averaged | |
| Acetonitrile | 0.05413 | 0.05946 | 0.05946 | 0.005 | -9.84259 | 50.0 | Averaged | |
| Allyl Chloride | 1.29812 | 1.26229 | 1.26229 | 0.100 | 2.76059 | 50.0 | Averaged | |
| Methacrylonitrile | 0.29541 | 0.30497 | 0.30497 | 0.100 | -3.23663 | 50.0 | Averaged | |
| Methyl Methacrylate | 0.42991 | 0.45687 | 0.45687 | 0.100 | -6.27140 | 50.0 | Averaged | |
| Propionitrile | 0.07225 | 0.07242 | 0.07242 | 0.010 | -0.22697 | 50.0 | Averaged | |
| n-Hexane | 50.0 | 41.25655 | 0.34262 | 0.100 | 17.48689 | 50.0 | Quadratic | |
| Acetaldehyde | 0.06896 | 0.07330 | 0.07330 | 0.001 | -6.29077 | 50.0 | Averaged | |
| Methyl Acrylate | 0.52880 | 0.54697 | 0.54697 | 0.100 | -3.43571 | 50.0 | Averaged | |
| Ethyl Methacrylate | 0.43830 | 0.45582 | 0.45582 | 0.100 | -3.99899 | 50.0 | Averaged | |
| 1,2,3-Trimethylbenzene | 1.92195 | 1.80423 | 1.80423 | 0.100 | 6.12500 | 50.0 | Averaged | |
| Diisopropyl ether | 1.39419 | 1.40698 | 1.40698 | 0.100 | -0.91767 | 50.0 | Averaged | |
| Butyl acrylate | 0.59144 | 0.56428 | 0.56428 | 0.100 | 4.59208 | 50.0 | Averaged | |
| 2-Ethylhexyl Acrylate | 50.0 | 44.04558 | 0.41782 | 0.100 | 11.90884 | 50.0 | Quadratic | |

01196409

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right partner.

Form 8

# Internal Standard Area and RT Summary

## Volatiles by EPA 8260

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/22/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

# Form 8 - Internal Standard Area and RT Summary

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Volatiles by EPA 8260

| VOA9_439181 | | Pentafluorobenzene | | | | 1,4-Difluorobenzene | | | | Chlorobenzene | | | | 1,4-Dichlorobenze | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | File ID | Area | # | RT | # | Area | # | RT | # | Area | # | RT | # | Area | # | RT | # |
| 12-HOUR STD (CCV) | U061703.D | 521018 | # | 4.82 | # | 756149 | # | 5.56 | # | 718007 | # | 8.19 | # | 392541 | # | 10.17 | # |
| HS23061096-01 | U061727.D | 495888 | | 4.82 | | 683026 | | 5.55 | | 631383 | | 8.19 | | 311372 | | 10.17 | |
| HS23061096-02 | U061716.D | 528267 | | 4.82 | | 721769 | | 5.55 | | 646813 | | 8.19 | | 321304 | | 10.17 | |
| HS23061096-03 | U061717.D | 508536 | | 4.82 | | 700258 | | 5.55 | | 638461 | | 8.19 | | 326300 | | 10.17 | |
| HS23061096-04 | U061729.D | 510895 | | 4.82 | | 704966 | | 5.55 | | 637886 | | 8.19 | | 319124 | | 10.17 | |
| HS23061096-05 | U061718.D | 503969 | | 4.81 | | 702589 | | 5.55 | | 647588 | | 8.19 | | 317611 | | 10.17 | |
| HS23061096-06 | U061719.D | 509221 | | 4.82 | | 711630 | | 5.56 | | 646781 | | 8.19 | | 323772 | | 10.17 | |
| HS23061096-07 | U061725.D | 518141 | | 4.82 | | 710199 | | 5.55 | | 634105 | | 8.19 | | 306704 | | 10.17 | |
| HS23061096-08 | U061720.D | 518636 | | 4.82 | | 712999 | | 5.55 | | 638956 | | 8.19 | | 316254 | | 10.17 | |
| HS23061096-09 | U061721.D | 494766 | | 4.82 | | 683147 | | 5.55 | | 629175 | | 8.19 | | 318636 | | 10.17 | |
| HS23061096-10 | U061715.D | 517179 | | 4.82 | | 706012 | | 5.55 | | 653830 | | 8.19 | | 326328 | | 10.17 | |
| VBLKW-230617 | U061707.D | 540004 | | 4.81 | | 741846 | | 5.55 | | 669837 | | 8.19 | | 336806 | | 10.17 | |
| VLCSW-230617 | U061705.D | 481638 | | 4.82 | | 702562 | | 5.55 | | 684402 | | 8.19 | | 363474 | | 10.17 | |
| MS-ZZZZZZMS | U061710.D | 521096 | | 4.82 | | 719896 | | 5.55 | | 694708 | | 8.19 | | 375533 | | 10.17 | |
| ZZZZZZMSD | U061711.D | 552599 | | 4.82 | | 761739 | | 5.56 | | 710760 | | 8.19 | | 383829 | | 10.17 | |

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H 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** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

## Volatiles by EPA 8260

| VOA9_439270 | | Pentafluorobenzene | | | | 1,4-Difluorobenzene | | | | Chlorobenzene | | | | 1,4-Dichlorobenze | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | File ID | Area | # | RT | # | Area | # | RT | # | Area | # | RT | # | Area | # | RT | # |
| 12-HOUR STD (CCV) | U061903.D | 491200 | # | 4.82 | # | 711864 | # | 5.55 | # | 705944 | # | 8.19 | # | 386436 | # | 10.17 | # |
| HS23061096-01 | U061916.D | 550051 | | 4.81 | | 754926 | | 5.55 | | 693659 | | 8.19 | | 344703 | | 10.17 | |
| HS23061096-04 | U061917.D | 532586 | | 4.82 | | 729000 | | 5.55 | | 677489 | | 8.19 | | 335982 | | 10.17 | |
| HS23061096-07 | U061918.D | 551114 | | 4.81 | | 765779 | | 5.55 | | 680339 | | 8.19 | | 331279 | | 10.17 | |
| VBLKW-230619 | U061907.D | 555065 | | 4.82 | | 765551 | | 5.55 | | 679035 | | 8.19 | | 329549 | | 10.17 | |
| VLCSW-230619 | U061905.D | 506560 | | 4.82 | | 738241 | | 5.55 | | 697682 | | 8.19 | | 370582 | | 10.17 | |
| MS-ZZZZZZMS | U061912.D | 581278 | | 4.82 | | 790767 | | 5.55 | | 724559 | | 8.19 | | 383379 | | 10.17 | |
| ZZZZZZMSD | U061913.D | 588090 | | 4.82 | | 815976 | | 5.55 | | 741600 | | 8.19 | | 395164 | | 10.17 | |

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

# - Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

01196412

right solutions.
right partner.

# Analysis Run Log

## Volatiles by EPA 8260

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/22/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

# Form 13 - Analysis Run Log

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

RunID
VOA9-437296

## Volatiles by EPA 8260

**Run ID** VOA9_437296 **Start Date** 06/06/23 **EndDate** 06/06/23

| Inj. Time | Client Sample ID | Type | Lab Sample ID | File ID | Analysis Date | DF |
|---|---|---|---|---|---|---|
| 10:53 | BFB | TUNE | BFB | U060601.D | 06/06/23 | 1 |
| 11:15 | VSTD000.25 | ICAL1 | VSTD000.25 | U060602.D | 06/06/23 | 1 |
| 11:37 | VSTD000.5 | ICAL2 | VSTD000.5 | U060603.D | 06/06/23 | 1 |
| 13:06 | VSTD005 | ICAL5 | VSTD005 | U060606.D | 06/06/23 | 1 |
| 13:28 | VSTD001 | ICAL3 | VSTD001 | U060607.D | 06/06/23 | 1 |
| 13:50 | VSTD002 | ICAL4 | VSTD002 | U060608.D | 06/06/23 | 1 |
| 14:13 | VSTD020 | ICAL6 | VSTD020 | U060609.D | 06/06/23 | 1 |
| 14:35 | VSTD050 | ICAL7 | VSTD050 | U060610.D | 06/06/23 | 1 |
| 14:57 | VSTD100 | ICAL8 | VSTD100 | U060611.D | 06/06/23 | 1 |
| 15:19 | VSTD150 | ICAL9 | VSTD150 | U060612.D | 06/06/23 | 1 |
| 15:41 | VSTD200 | ICAL | VSTD200 | U060613.D | 06/06/23 | 1 |
| 16:48 | CCV | ICV | CCV | U060616.D | 06/06/23 | 1 |

# Form 13 - Analysis Run Log

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

RunID
VOA9-439181

## Volatiles by EPA 8260

**Run ID** VOA9_439181 **Start Date** 06/17/23 **EndDate** 06/17/23

| Inj. Time | Client Sample ID | Type | Lab Sample ID | File ID | Analysis Date | DF |
|---|---|---|---|---|---|---|
| 11:18 | BFB | TUNE | BFB | U061701.D | 06/17/23 | 1 |
| 12:05 | CCV | CCV | CCV | U061703.D | 06/17/23 | 1 |
| 12:28 | CCB | CCB | CCB | U061704.D | 06/17/23 | 1 |
| 12:50 | VLCSW-230617 | LCS | VLCSW-230617 | U061705.D | 06/17/23 | 1 |
| 13:35 | VBLKW-230617 | MBLK | VBLKW-230617 | U061707.D | 06/17/23 | 1 |
| 13:57 | HS23060746-04 | SAMP | ZZZZZZZZZZ | U061708.D | 06/17/23 | 1 |
| 14:19 | HS23060983-01 | SAMP | ZZZZZZZZZZ | U061709.D | 06/17/23 | 1 |
| 14:42 | HS23060983-01MS | MS | ZZZZZZMS | U061710.D | 06/17/23 | 1 |
| 15:04 | HS23060983-01MSD | MSD | ZZZZZZMSD | U061711.D | 06/17/23 | 1 |
| 15:49 | HS23060746-03 | SAMP | ZZZZZZZZZZ | U061713.D | 06/17/23 | 1 |
| 16:11 | HS23060983-02 | SAMP | ZZZZZZZZZZ | U061714.D | 06/17/23 | 1 |
| 16:34 | HS23061096-10 | SAMP | TRIP BLANK | U061715.D | 06/17/23 | 1 |
| 16:56 | HS23061096-02 | SAMP | 18CPTMW12SW_0614 | U061716.D | 06/17/23 | 1 |
| 17:19 | HS23061096-03 | SAMP | 18CPTMW12DW_0614 | U061717.D | 06/17/23 | 1 |
| 17:41 | HS23061096-05 | SAMP | 130_061423 | U061718.D | 06/17/23 | 1 |
| 18:03 | HS23061096-06 | SAMP | 130_061423_a | U061719.D | 06/17/23 | 1 |
| 18:26 | HS23061096-08 | SAMP | 18WW06_061423 | U061720.D | 06/17/23 | 1 |
| 18:48 | HS23061096-09 | SAMP | 18WW02_061423 | U061721.D | 06/17/23 | 1 |
| 19:11 | HS23060746-02 | SAMP | ZZZZZZZZZZ | U061722.D | 06/17/23 | 1 |
| 19:33 | HS23060746-01 | SAMP | ZZZZZZZZZZ | U061723.D | 06/17/23 | 1 |
| 20:18 | HS23061096-07 | SAMP | MW8_061423 | U061725.D | 06/17/23 | 1 |
| 21:03 | HS23061096-01 | SAMP | AWD3_061423 | U061727.D | 06/17/23 | 1 |
| 21:48 | HS23061096-04 | SAMP | MW7_061423 | U061729.D | 06/17/23 | 1 |
| 22:32 | CCV-END | CCV_END | CCV-END | U061731.D | 06/17/23 | 1 |

# Form 13 - Analysis Run Log

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

RunID
VOA9-439270

## Volatiles by EPA 8260

**Run ID** VOA9_439270 **Start Date** 06/19/23 **EndDate** 06/19/23

| Inj. Time | Client Sample ID | Type | Lab Sample ID | File ID | Analysis Date | DF |
|---|---|---|---|---|---|---|
| 10:12 | BFB | TUNE | BFB | U061901.D | 06/19/23 | 1 |
| 11:23 | CCV | CCV | CCV | U061903.D | 06/19/23 | 1 |
| 11:45 | CCB | CCB | CCB | U061904.D | 06/19/23 | 1 |
| 12:07 | VLCSW-230619 | LCS | VLCSW-230619 | U061905.D | 06/19/23 | 1 |
| 12:52 | VBLKW-230619 | MBLK | VBLKW-230619 | U061907.D | 06/19/23 | 1 |
| 13:15 | HS23061152-01 | SAMP | ZZZZZZZZZZ | U061908.D | 06/19/23 | 1 |
| 14:22 | HS23060446-01 | SAMP | ZZZZZZZZZZ | U061911.D | 06/19/23 | 5 |
| 14:44 | HS23061152-01MS | MS | ZZZZZZMS | U061912.D | 06/19/23 | 1 |
| 15:07 | HS23061152-01MSD | MSD | ZZZZZZMSD | U061913.D | 06/19/23 | 1 |
| 15:51 | HS23060731-01 | SAMP | ZZZZZZZZZZ | U061915.D | 06/19/23 | 1 |
| 16:14 | HS23061096-01 | SAMP | AWD3_061423 | U061916.D | 06/19/23 | 10 |
| 16:36 | HS23061096-04 | SAMP | MW7_061423 | U061917.D | 06/19/23 | 25 |
| 16:58 | HS23061096-07 | SAMP | MW8_061423 | U061918.D | 06/19/23 | 5 |
| 17:21 | HS23060446-01 | SAMP | ZZZZZZZZZZ | U061919.D | 06/19/23 | 1 |
| 18:06 | CCV-END | CCV_END | CCV-END | U061921.D | 06/19/23 | 1 |

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right solutions.
right partner.

# Raw Data VOA9 437296

## Volatiles by EPA 8260

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/22/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060601.D  Page 1
Report Date: 06-Jun-2023 11:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060601.D
Lab Smp Id: BFB  Client Smp ID: BFB
Inj Date  : 06-JUN-2023 10:53
Operator  : PC  Inst ID: VOA9.i
Smp Info  : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri  Quant Type: ISTD
Cal Date  : 30-MAR-2018 18:09  Cal File: U033003.d
Als bottle: 1  QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: all.sub
Target Version:  4.14  Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vf | 1.000 | Volumetric correction factor |
| Vi | 2.000 | Injection Volume |
| Cpnd Variable | | Local Compound Variable |

| | | | | | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/l) | | |
|---|---|---|---|---|---|---|---|---|
| RT | EXP RT | REL RT | MASS | RESPONSE | | | TARGET RANGE | RATIO |
| 1 bfb | | | | | | | CAS #: 460-00-4 | |
| 9.197 | 9.180 | ( 0.000) | 95 | 136448 | | | 0.00- 100.00 | 100.00 |
| 9.197 | 9.180 | ( 0.000) | 50 | 25960 | | | 15.00- 40.00 | 19.03 |
| 9.197 | 9.180 | ( 0.000) | 75 | 63728 | | | 30.00- 60.00 | 46.70 |
| 9.197 | 9.180 | ( 0.000) | 96 | 9360 | | | 5.00- 9.00 | 6.86 |
| 9.197 | 9.180 | ( 0.000) | 173 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 9.197 | 9.180 | ( 0.000) | 174 | 125696 | | | 50.00- 0.00 | 92.12 |
| 9.197 | 9.180 | ( 0.000) | 175 | 10925 | | | 5.00- 9.00 | 8.69 |
| 9.197 | 9.180 | ( 0.000) | 176 | 121928 | | | 95.00- 101.00 | 97.00 |
| 9.197 | 9.180 | ( 0.000) | 177 | 8371 | | | 5.00- 9.00 | 6.87 |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 19.03 |
| 75 | 30.00 - 60.00% of mass 95 | 46.70 |
| 96 | 5.00 - 9.00% of mass 95 | 6.86 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 92.12 |
| 175 | 5.00 - 9.00% of mass 174 | 8.01 ( 8.69) |
| 176 | 95.00 - 101.00% of mass 174 | 89.36 ( 97.00) |
| 177 | 5.00 - 9.00% of mass 176 | 6.13 ( 6.87) |

Data File: U060601.D
Spectrum: Scan 2294 ( 9.19)
Location of Maximum: 95.00
Number of points: 183

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 1606 | 78.90 | 3626 | 126.90 | 173 | 180.50 | 63 |
| 37.00 | 7004 | 79.90 | 1138 | 127.90 | 637 | 189.70 | 63 |
| 38.00 | 6056 | 80.90 | 3614 | 128.80 | 349 | 190.10 | 90 |
| 39.10 | 2292 | 81.90 | 1010 | 129.90 | 611 | 190.90 | 76 |
| 39.90 | 605 | 83.70 | 86 | 131.00 | 267 | 191.70 | 102 |
| 40.60 | 238 | 84.40 | 139 | 131.90 | 136 | 193.30 | 85 |
| 41.50 | 249 | 85.10 | 99 | 133.00 | 93 | 193.80 | 111 |
| 42.40 | 145 | 86.00 | 358 | 134.00 | 60 | 194.90 | 61 |
| 43.10 | 257 | 86.90 | 5506 | 134.90 | 188 | 195.70 | 59 |
| 43.90 | 1550 | 87.90 | 5724 | 135.50 | 114 | 199.00 | 61 |
| 45.00 | 1049 | 89.70 | 70 | 136.10 | 156 | 201.00 | 76 |
| 46.20 | 308 | 90.90 | 483 | 137.00 | 446 | 204.10 | 65 |
| 47.00 | 2170 | 92.00 | 3718 | 138.70 | 149 | 206.80 | 96 |
| 47.80 | 1172 | 93.00 | 5572 | 139.60 | 225 | 214.00 | 57 |
| 49.00 | 5597 | 94.00 | 17248 | 140.80 | 1519 | 215.30 | 57 |
| 50.00 | 25960 | 95.00 | 136448 | 141.80 | 216 | 217.30 | 81 |
| 51.00 | 8122 | 96.00 | 9360 | 142.90 | 1809 | 219.80 | 80 |
| 52.10 | 549 | 97.00 | 242 | 143.90 | 185 | 221.90 | 82 |
| 53.20 | 314 | 98.10 | 120 | 144.90 | 427 | 226.10 | 60 |
| 53.90 | 188 | 99.50 | 83 | 145.90 | 283 | 227.70 | 56 |
| 54.20 | 214 | 100.10 | 128 | 146.90 | 135 | 233.00 | 105 |
| 54.80 | 516 | 101.30 | 73 | 147.90 | 335 | 241.30 | 67 |
| 56.00 | 2033 | 102.80 | 171 | 148.90 | 169 | 243.30 | 72 |
| 57.00 | 3459 | 103.90 | 720 | 149.80 | 365 | 244.40 | 79 |
| 57.90 | 375 | 104.80 | 244 | 151.80 | 188 | 246.00 | 69 |
| 59.00 | 221 | 105.80 | 554 | 152.60 | 215 | 247.20 | 66 |
| 60.00 | 1229 | 107.10 | 182 | 153.80 | 221 | 253.10 | 56 |
| 61.00 | 6314 | 107.60 | 97 | 154.80 | 409 | 258.80 | 62 |
| 62.00 | 6603 | 108.20 | 76 | 155.90 | 107 | 264.10 | 94 |
| 63.00 | 5015 | 109.70 | 198 | 157.00 | 385 | 264.50 | 57 |
| 64.00 | 798 | 111.00 | 182 | 158.70 | 185 | 265.40 | 67 |
| 64.90 | 849 | 111.60 | 225 | 160.20 | 116 | 278.00 | 50 |
| 65.80 | 161 | 112.70 | 159 | 161.10 | 194 | 283.30 | 85 |
| 66.80 | 415 | 113.00 | 170 | 161.60 | 65 | 284.10 | 92 |
| 68.00 | 14015 | 114.80 | 234 | 166.70 | 55 | 286.60 | 57 |
| 69.00 | 13768 | 115.90 | 673 | 168.00 | 87 | 287.60 | 52 |
| 70.00 | 1246 | 116.90 | 876 | 169.10 | 89 | 295.90 | 52 |
| 70.80 | 262 | 117.80 | 546 | 169.60 | 59 | 300.90 | 71 |
| 71.30 | 260 | 118.80 | 825 | 170.30 | 103 | 302.50 | 52 |
| 72.10 | 826 | 119.90 | 99 | 171.00 | 262 | 320.40 | 86 |
| 73.00 | 6098 | 120.40 | 70 | 172.00 | 1169 | 328.50 | 66 |
| 74.00 | 20912 | 121.70 | 115 | 173.90 | 125696 | 330.30 | 64 |
| 75.00 | 63728 | 122.50 | 79 | 175.00 | 10925 | 339.30 | 78 |
| 76.00 | 6105 | 123.50 | 138 | 175.90 | 121928 | 346.10 | 69 |
| 76.90 | 843 | 124.80 | 115 | 176.90 | 8371 | 349.50 | 59 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 77.90 | 770 | 125.60 | 102 | 177.90 | 233 | | |

Data File: \\nahstws005\target\chem\voa9.i\u230606.b\u060601.d Page 1

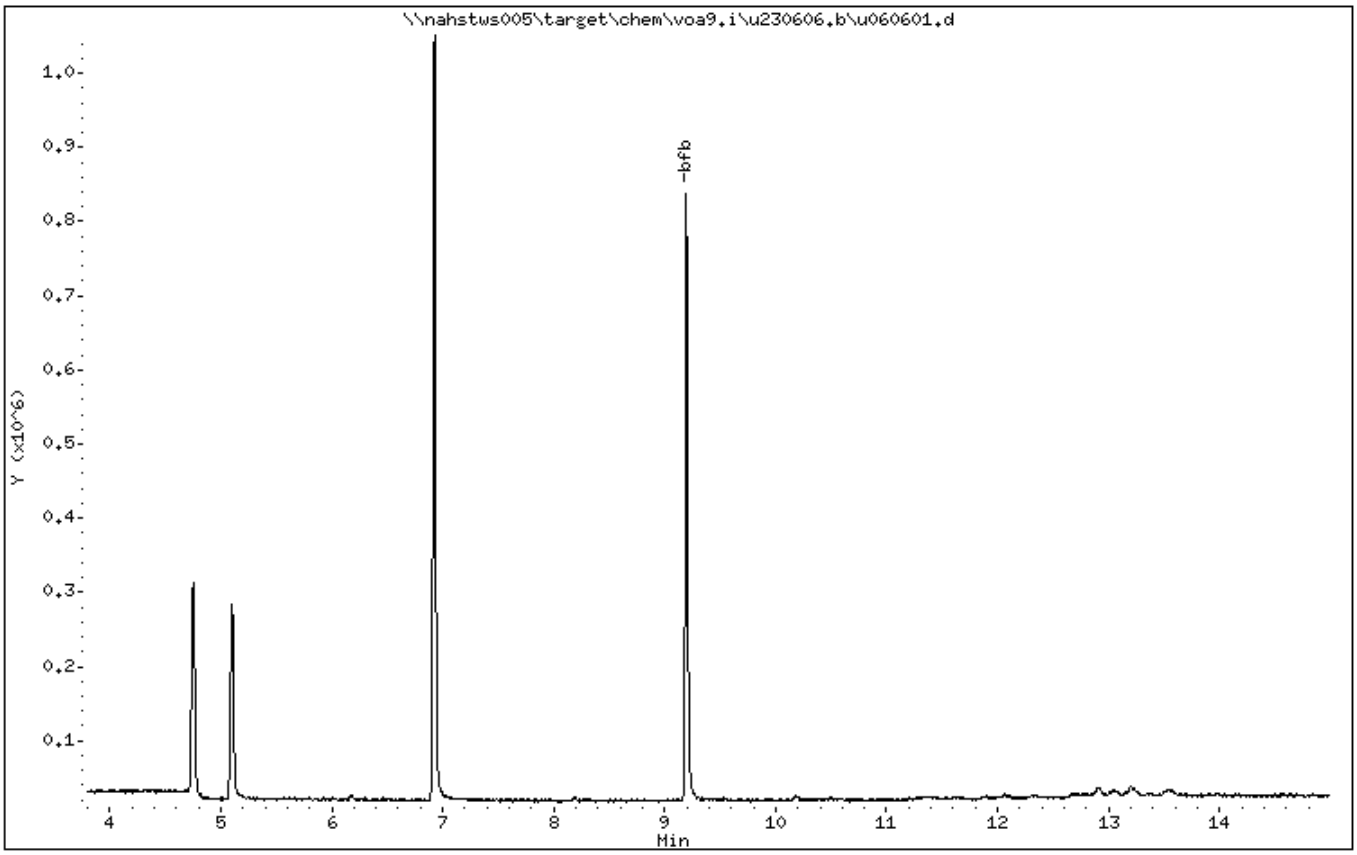
Date : 06-JUN-2023 10:53

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060601.d
Inj Date  : 06-JUN-2023 10:53
InstruID  : VOA9.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060602.D  Page 1
Report Date: 13-Jun-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060602.D
Lab Smp Id: VSTD000.25  Client Smp ID: VSTD000.25
Inj Date  : 06-JUN-2023 11:15
Operator  : PC  Inst ID: VOA9.i
Smp Info  : VSTD000.25;VSTD000.25;1;1;
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 13-Jun-2023 13:00 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 2  Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

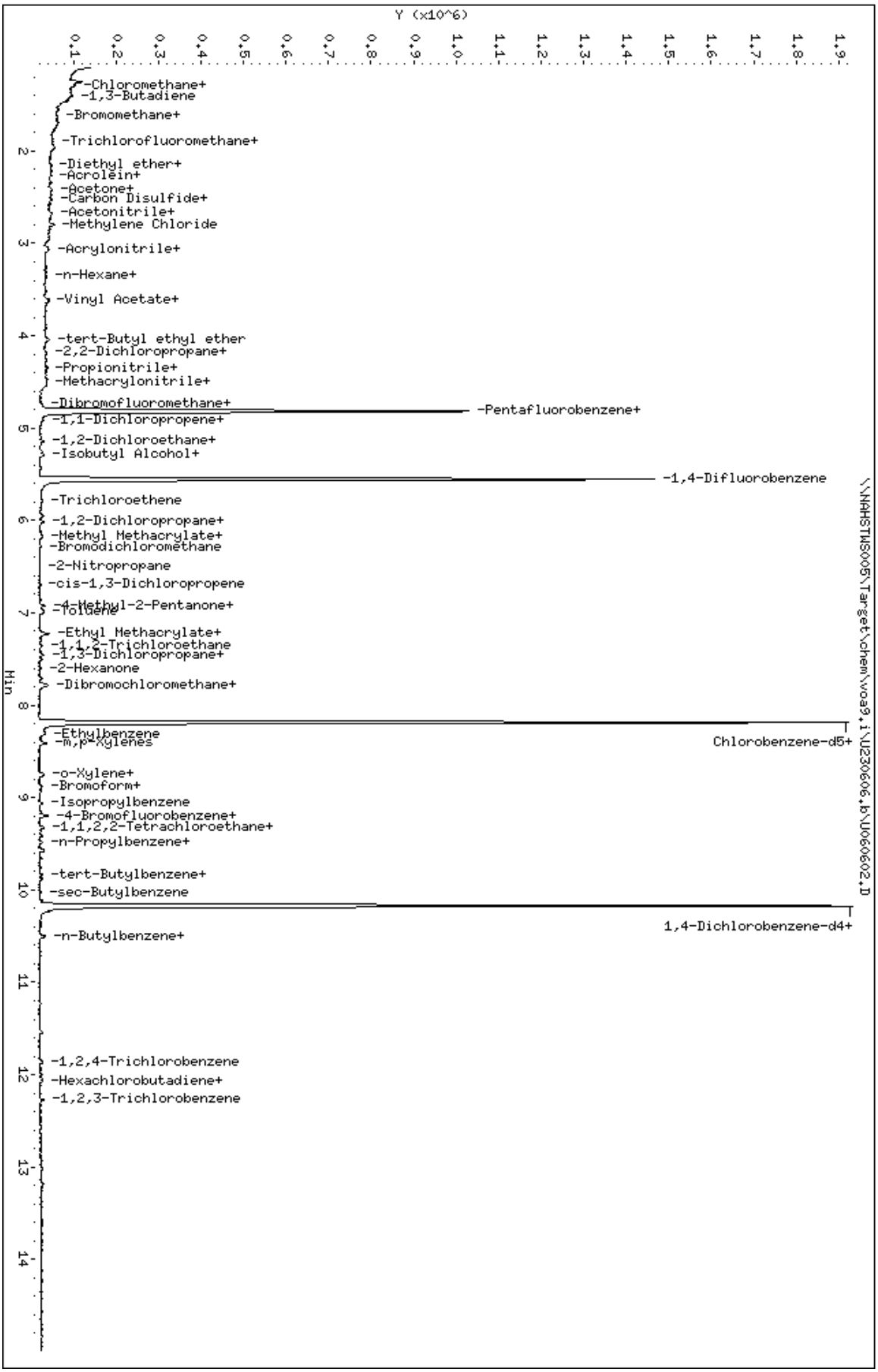
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | | QUANT SIG | | | | | AMOUNTS | |
|---|---|---|---|---|---|---|---|---|
| | Compounds | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT ( ug/l) | ON-COL ( ug/l) |
| * | 1 Pentafluorobenzene | 168 | 4.815 | 4.815 | (1.000) | 758075 | 50.0000 | |
| | 15 Iodomethane | 142 | 2.476 | 2.476 | (0.514) | 1709 | 0.50000 | 10.21(T) |
| | 26 2,2-Dichloropropane | 77 | 4.182 | 4.182 | (0.868) | 2648 | 0.25000 | 0.73(a) |
| $ | 30 Dibromofluoromethane | 113 | 4.751 | 4.751 | (0.987) | 2358 | 0.25000 | 0.05(a) |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.059) | 2464 | 0.25000 | (a) |
| * | 36 1,4-Difluorobenzene | 114 | 5.554 | 5.554 | (1.000) | 1141877 | 50.0000 | |
| | 46 cis-1,3-Dichloropropene | 75 | 6.693 | 6.693 | (1.205) | 2552 | 0.25000 | 2.12(a) |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 1042568 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.922 | (0.846) | 9480 | 0.25000 | 0.40(a) |
| | 51 trans-1,3-Dichloropropene | 75 | 7.207 | 7.207 | (1.298) | 1508 | 0.25000 | 2.17(a) |
| | 58 1-Chlorohexane | 55 | 8.185 | 8.185 | (1.474) | 10231 | 0.25000 | 1.74(a) |
| $ | 69 4-Bromofluorobenzene | 95 | 9.197 | 9.197 | (1.124) | 6043 | 0.25000 | (a) |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 519246 | 50.0000 | |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 4023 | 0.50000 | (a) |
| | 141 Cyclohexane | 56 | 4.815 | 4.815 | (1.000) | 12882 | 0.25000 | 1.60(a) |
| | 140 1,3-Butadiene | 54 | 1.404 | 1.404 | (0.292) | 1956 | 0.25000 | 0.27(a) |
| | 145 alpha-Methylstyrene | 118 | 9.760 | 9.760 | (0.959) | 2265 | 0.25000 | 3.75(a) |
| | 162 Butyl acrylate | 55 | 8.736 | 8.736 | (1.067) | 4785 | 0.25000 | 0.38(a) |
| | 203 2-Ethylhexyl Acrylate | 55 | 12.046 | 12.046 | (1.184) | 2128 | 0.25000 | 2.17(a) |

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).




Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060602.D
Date : 06-JUN-2023 11:15
Client ID: VSTD000.25
Sample Info: VSTD000.25;VSTD000.25;1;1;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

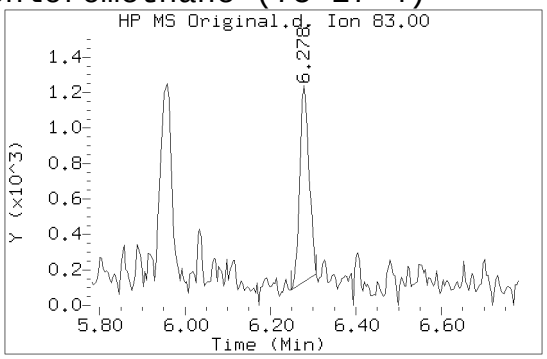
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060602.D
Inj Date : 06-JUN-2023 11:15
InstruID : VOA9.i
LabSampID : VSTD000.25

## Bromodichloromethane (75-27-4)

Reason Code:

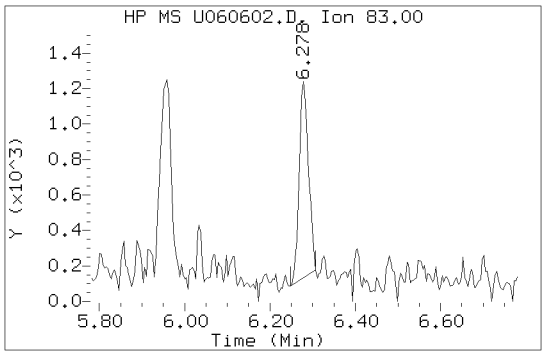
BEFORE

MASS
83
AREA
1696
HEIGHT
1106
08-Jun-2023
14:56
linh
pham



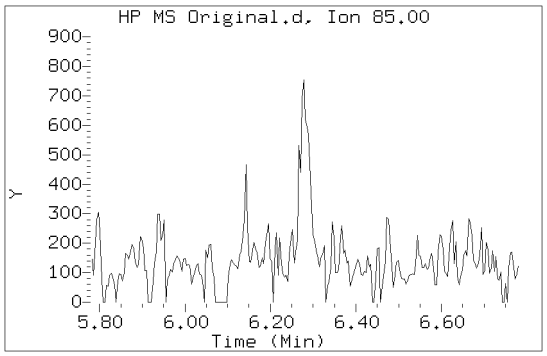

AFTER

MASS
83
AREA
1696
HEIGHT
1106
13-Jun-2023
13:00
linh
pham



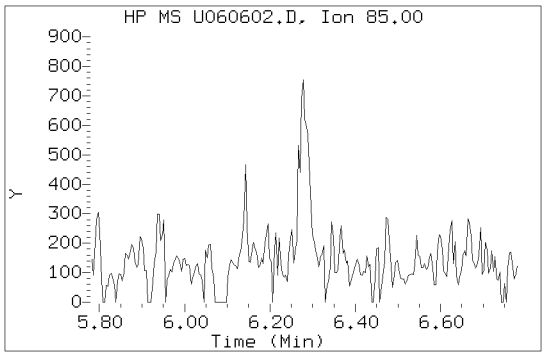

BEFORE

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AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



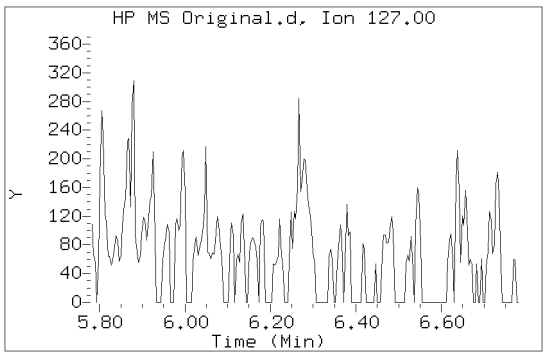

AFTER

MASS
85
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



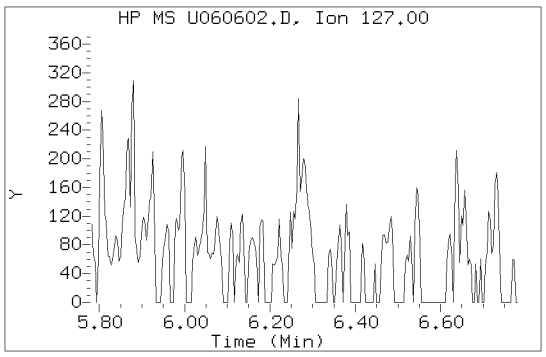

BEFORE

MASS
127
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




AFTER

MASS
127
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

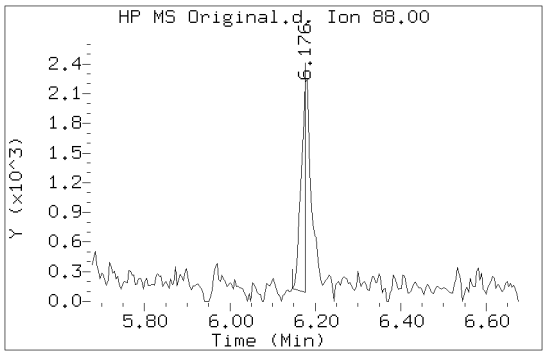



## 1,4-Dioxane ()

Reason Code:

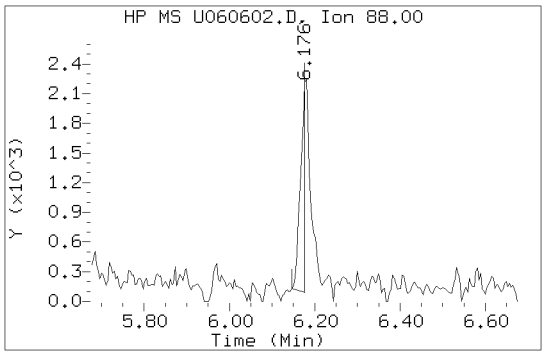
BEFORE

MASS
88
AREA
1694
HEIGHT
2126
08-Jun-2023
14:56
linh
pham




AFTER

MASS
88
AREA
1694
HEIGHT
2126
13-Jun-2023
13:00
linh
pham



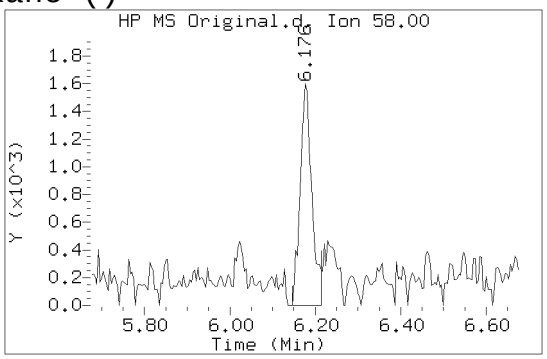
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Inj Date : 06-JUN-2023 11:15
InstruID : VOA9.i
LabSampID : VSTD000.25

1,4-Dioxane ()

Reason Code:

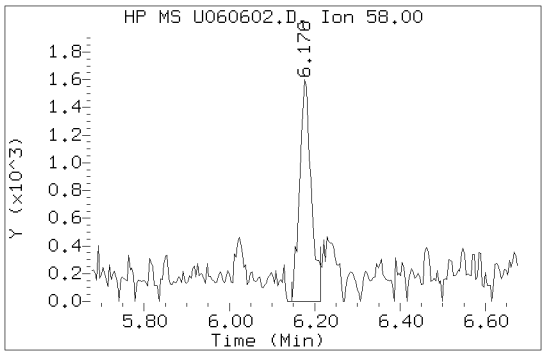
BEFORE

MASS
58
AREA
3075
HEIGHT
1600
08-Jun-2023
14:56
linh
pham




AFTER

MASS
58
AREA
3075
HEIGHT
1600
13-Jun-2023
13:00
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D Page 1
Report Date: 21-Jun-2023 13:47

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Lab Smp Id: VSTD000.5 Client Smp ID: VSTD000.5
Inj Date : 06-JUN-2023 11:37
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD000.5;VSTD000.5;1;2;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 11:37 Cal File: U060603.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

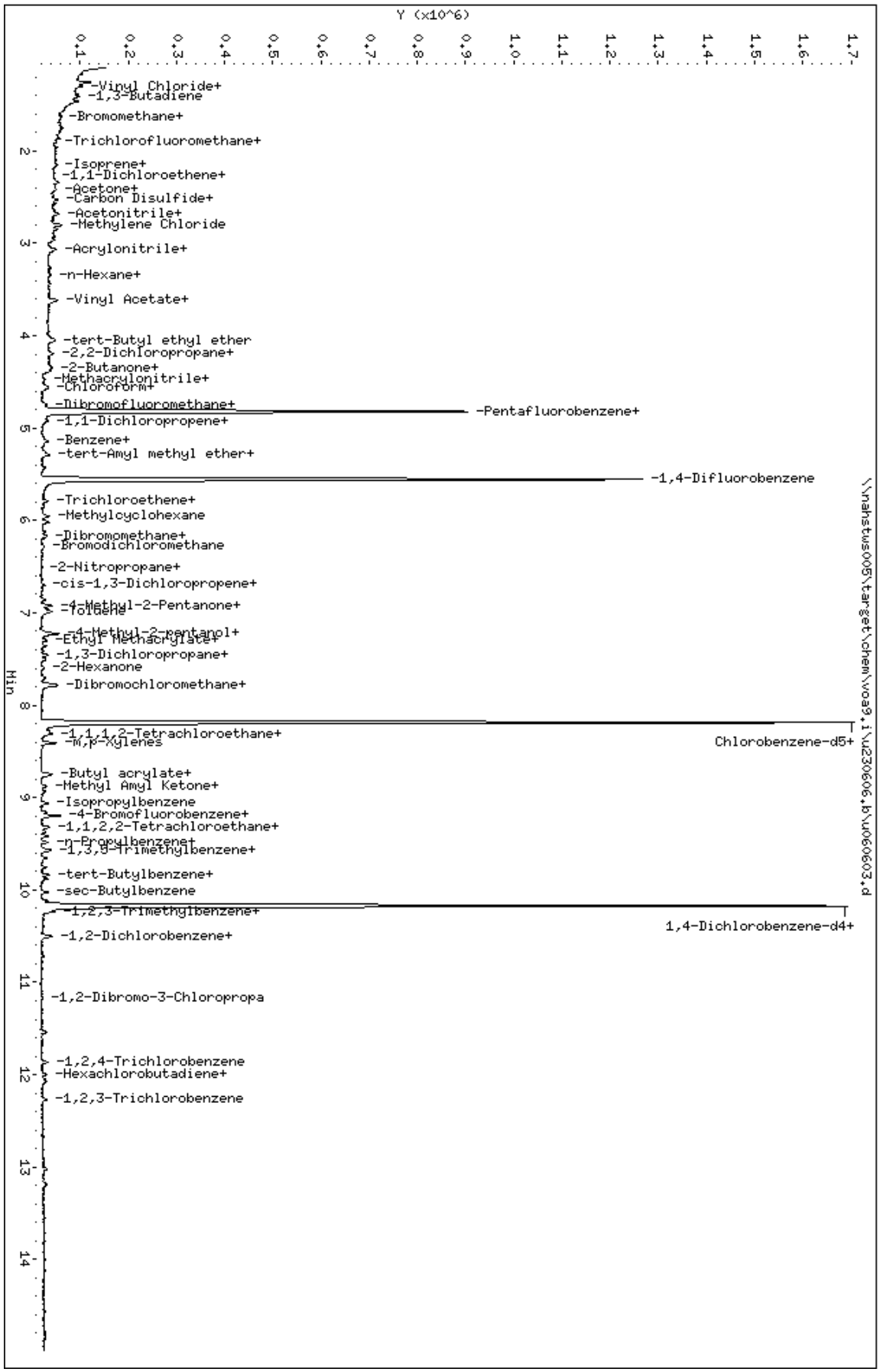
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * | 1 Pentafluorobenzene | 168 | 4.819 | 4.819 | (1.000) | 671879 | 50.0000 | |
| | 2 Dichlorodifluoromethane | 85 | 1.168 | 1.168 | (0.242) | 3237 | 0.50000 | 0.60(a) |
| | 5 Vinyl Chloride | 62 | 1.381 | 1.381 | (0.287) | 3572 | 0.50000 | 0.50(a) |
| | 7 Chloroethane | 64 | 1.704 | 1.704 | (0.354) | 2580 | 0.50000 | 0.53(aM) |
| | 15 Iodomethane | 142 | 2.480 | 2.480 | (0.515) | 1872 | 1.00000 | 10.30(T) |
| | 19 Carbon Disulfide | 76 | 2.525 | 2.525 | (0.524) | 13120 | 1.00000 | 0.96(a) |
| | 20 trans-1,2-Dichloroethene | 96 | 3.065 | 3.065 | (0.636) | 2954 | 0.50000 | 0.53(a) |
| | 22 1,1-Dichloroethane | 63 | 3.518 | 3.518 | (0.730) | 6153 | 0.50000 | 0.58(a) |
| | 24 2-Butanone | 43 | 4.272 | 4.272 | (0.886) | 3610 | 1.00000 | 1.17(aM) |
| | 26 2,2-Dichloropropane | 77 | 4.193 | 4.193 | (0.870) | 3685 | 0.50000 | 0.92(a) |
| | 29 Bromochloromethane | 128 | 4.470 | 4.470 | (0.928) | 2104 | 0.50000 | 0.56(a) |
| $ | 30 Dibromofluoromethane | 113 | 4.751 | 4.751 | (0.986) | 3644 | 0.50000 | 0.33(aM) |
| | 31 1,1,1-Trichloroethane | 97 | 4.744 | 4.744 | (0.984) | 4434 | 0.50000 | 0.53(aM) |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.104 | 5.104 | (1.059) | 3795 | 0.50000 | (aM) |
| * | 36 1,4-Difluorobenzene | 114 | 5.554 | 5.554 | (1.000) | 991670 | 50.0000 | |
| | 46 cis-1,3-Dichloropropene | 75 | 6.693 | 6.693 | (1.205) | 4533 | 0.50000 | 2.34(aM) |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 921846 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.922 | (0.846) | 14408 | 0.50000 | 0.69(aM) |
| | 50 Toluene | 91 | 6.986 | 6.986 | (0.853) | 13471 | 0.50000 | 0.53(aM) |
| | 51 trans-1,3-Dichloropropene | 75 | 7.203 | 7.203 | (1.297) | 4073 | 0.50000 | 2.48(aM) |
| | 54 1,3-Dichloropropane | 76 | 7.503 | 7.503 | (0.917) | 5569 | 0.50000 | 0.52(a) |

| | | | | | | |
|---|---|---|---|---|---|---|
| 57 1,2-Dibromoethane | 107 | 7.792 | 7.792 (0.952) | 3622 | 0.50000 | 0.56(aM) |
| 58 1-Chlorohexane | 55 | 8.200 | 8.200 (1.477) | 2785 | 0.50000 | 0.54(aM) |

| | | | QUANT SIG | | | | | AMOUNTS | |
|---|---|---|---|---|---|---|---|---|---|
| | | Compounds | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT ( ug/l) | ON-COL ( ug/l) |
| | 59 | Chlorobenzene | 112 | 8.208 | 8.208 | (1.003) | 8858 | 0.50000 | 0.49(a) |
| | 60 | 1,1,1,2-Tetrachloroethane | 131 | 8.286 | 8.286 | (1.012) | 3117 | 0.50000 | 0.50(a) |
| | 62 | m,p-Xylenes | 106 | 8.410 | 8.410 | (1.027) | 9164 | 1.00000 | 0.93(aM) |
| | 68 | 1,1,2,2-Tetrachloroethane | 83 | 9.332 | 9.332 | (0.917) | 4333 | 0.50000 | 0.50(aM) |
| $ | 69 | 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 5007 | 0.50000 | (aM) |
| * | 70 | 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 456421 | 50.0000 | |
| | 83 | 1,3-Dichlorobenzene | 146 | 10.116 | 10.116 | (0.994) | 6595 | 0.50000 | 0.50(a) |
| | 93 | 1,2,3-Trichlorobenzene | 180 | 12.271 | 12.271 | (1.206) | 4090 | 0.50000 | 0.46(aM) |
| M | 94 | 1,2-Dichloroethylene (total) | 96 | | | | 6594 | 1.00000 | 1.08(a) |
| | 141 | Cyclohexane | 56 | 4.796 | 4.796 | (0.995) | 4345 | 0.50000 | 0.72(aM) |
| | 138 | Freon TF | 101 | 2.341 | 2.341 | (0.486) | 2391 | 0.50000 | 0.52(aM) |
| | 140 | 1,3-Butadiene | 54 | 1.408 | 1.408 | (0.292) | 2958 | 0.50000 | 0.46(a) |
| | 13 | Acetonitrile | 39 | 2.678 | 2.678 | (0.556) | 4044 | 5.00000 | 5.55(a) |
| | 40 | Methyl Methacrylate | 41 | 6.165 | 6.165 | (1.279) | 3083 | 0.50000 | 0.53(aM) |
| | 4 | Propionitrile | 54 | 4.347 | 4.347 | (0.902) | 5579 | 5.00000 | 5.74(aM) |
| | 136 | n-Hexane | 57 | 3.353 | 3.353 | (0.696) | 2983 | 0.50000 | 0.65(a) |
| | 200 | Dimethyl Disulfide | 94 | 6.746 | 6.746 | (0.824) | 1341 | 0.50000 | 4.71(aM) |
| | 166 | 1,2,3-Trimethylbenzene | 105 | 10.236 | 10.236 | (1.006) | 9904 | 0.50000 | 0.56(a) |
| | 145 | alpha-Methylstyrene | 118 | 9.756 | 9.756 | (0.959) | 3201 | 0.50000 | 3.88(a) |
| | 156 | Diisopropyl ether | 45 | 3.627 | 3.627 | (0.753) | 10933 | 0.50000 | 0.58(a) |
| | 151 | 4-Methyl-2-pentanol | 45 | 7.226 | 7.226 | (1.301) | 20153 | 10.0000 | 13.66 |
| | 150 | Allyl alcohol | 57 | 3.353 | 3.353 | (0.696) | 2691 | 10.0000 | 12.72(M) |
| | 86 | Benzyl Chloride | 91 | 10.315 | 10.315 | (1.260) | 1867 | 0.50000 | 3.78(aM) |
| | 162 | Butyl acrylate | 55 | 8.740 | 8.740 | (1.068) | 6005 | 0.50000 | 0.55(a) |
| | 139 | Diethyl ether | 59 | 2.150 | 2.150 | (0.446) | 2812 | 0.50000 | 0.61(aM) |
| | 203 | 2-Ethylhexyl Acrylate | 55 | 12.043 | 12.043 | (1.184) | 2309 | 0.50000 | 2.27(a) |
| | 130 | Ethyl Acetate | 43 | 4.272 | 4.272 | (0.886) | 3781 | 0.50000 | 0.62(aM) |

QC Flag Legend

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




Data File: \\nahstws005\target\chem\voa9,i\u230606,b\u060603.d
Date : 06-JUN-2023 11:37
Client ID: VSTD000,5
Sample Info: VSTD000,5;VSTD000,5;1;2;
Purge Volume: 5.0
Column phase: DB624

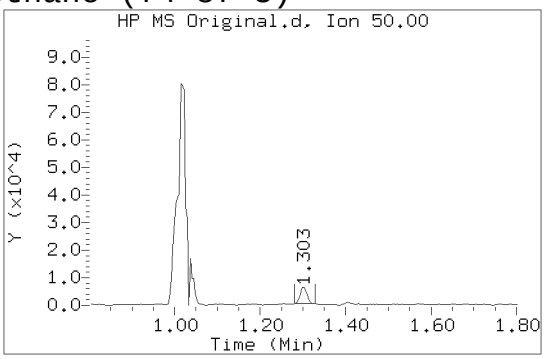
Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## Chloromethane (74-87-3)

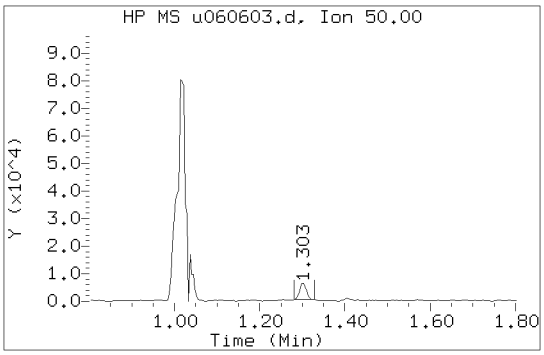
**BEFORE**

MASS
50
AREA
6740
HEIGHT
5876
08-Jun-2023
14:56
linh
pham




**AFTER**

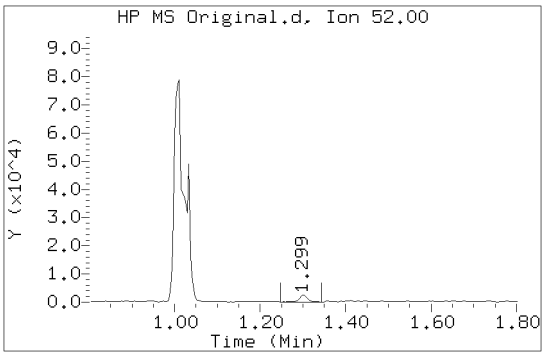
MASS
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AREA
6740
HEIGHT
5876
21-Jun-2023
13:47
linh
pha




Reason Code:

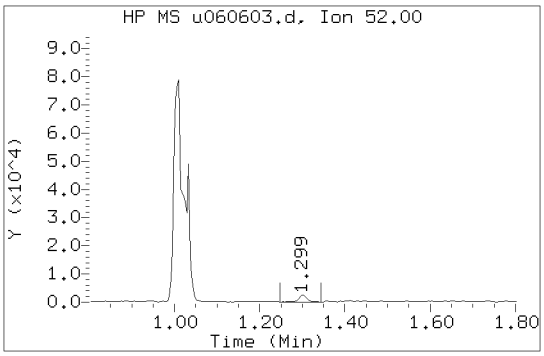
**BEFORE**

MASS
52
AREA
3856
HEIGHT
2605
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
52
AREA
3856
HEIGHT
2605
21-Jun-2023
13:47
linh
pha

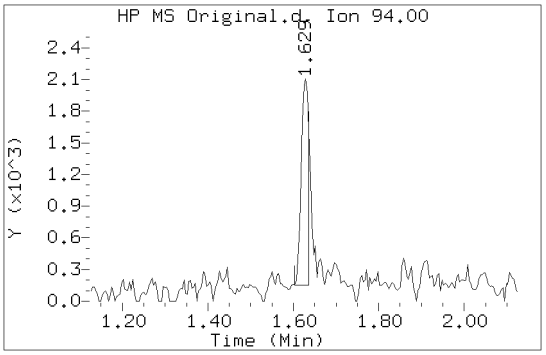



Reason Code:

## Bromomethane (74-83-9)

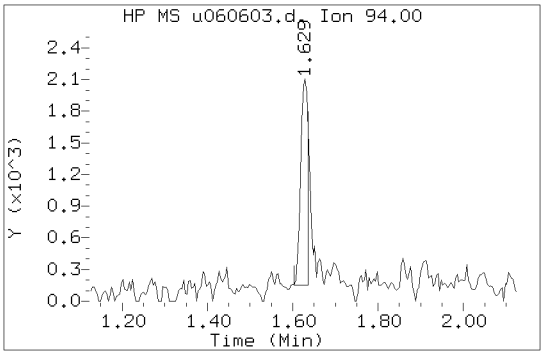
**BEFORE**

MASS
94
AREA
2378
HEIGHT
1953
08-Jun-2023
14:56
linh
pham




**AFTER**

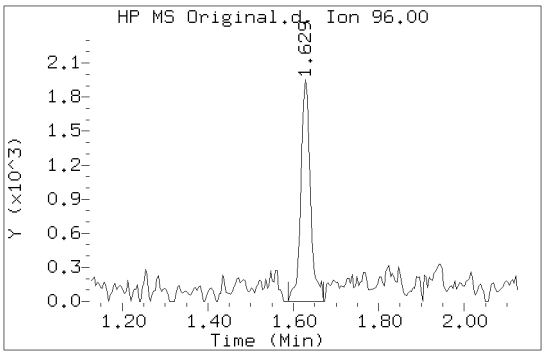
MASS
94
AREA
2378
HEIGHT
1953
21-Jun-2023
13:47
linh
pha




Reason Code:

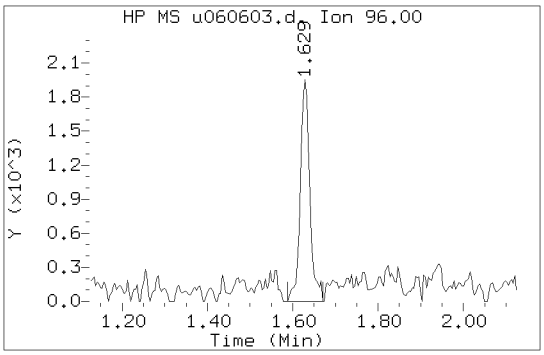
**BEFORE**

MASS
96
AREA
3081
HEIGHT
1953
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
96
AREA
3081
HEIGHT
1953
21-Jun-2023
13:47
linh
pha



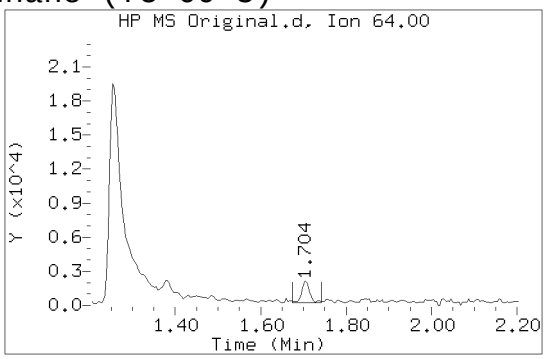

Reason Code:

Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

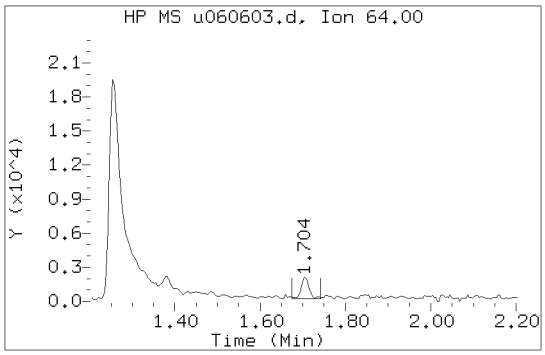
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Reason Code:

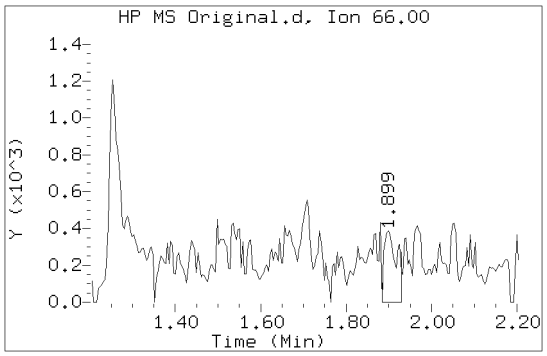
BEFORE
MASS
64
AREA
2580
HEIGHT
1940
08-Jun-2023
14:56
linh
pham



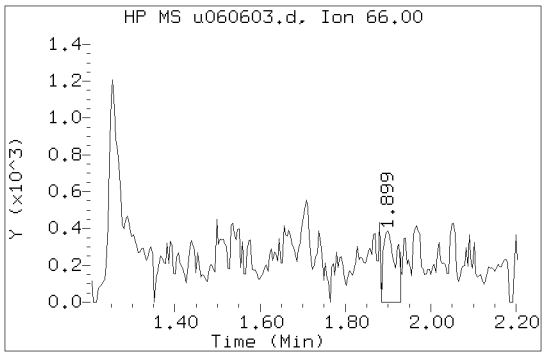

AFTER
MASS
64
AREA
2580
HEIGHT
1940
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
66
AREA
783
HEIGHT
389
08-Jun-2023
14:56
linh
pham



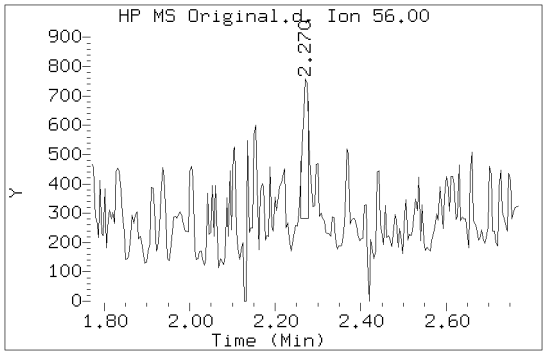

AFTER
MASS
66
AREA
783
HEIGHT
389
21-Jun-2023
13:47
linh
pha



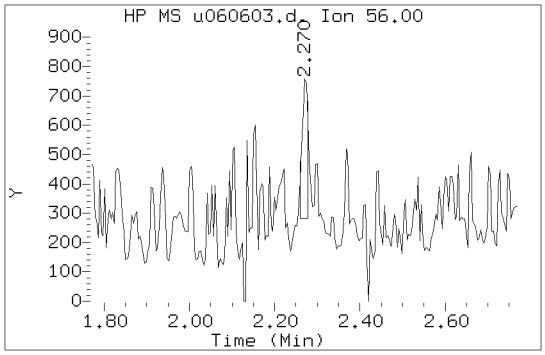

## Acrolein (107-02-8 )

Reason Code:

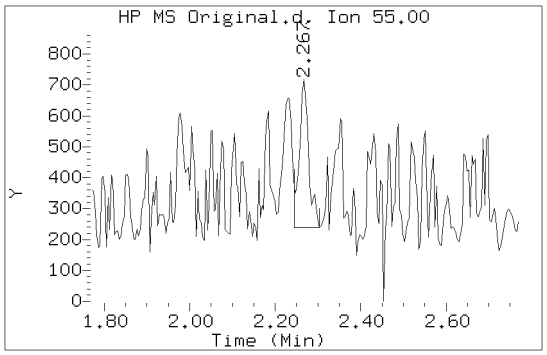
BEFORE
MASS
56
AREA
451
HEIGHT
476
08-Jun-2023
14:56
linh
pham



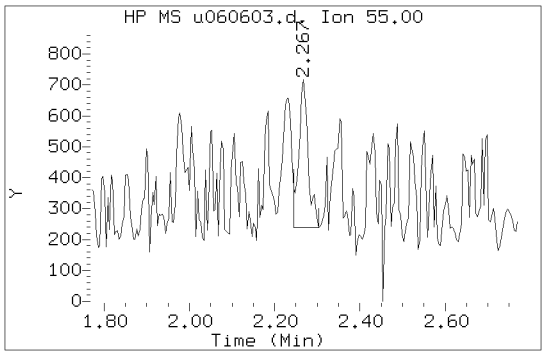

AFTER
MASS
56
AREA
451
HEIGHT
476
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
55
AREA
750
HEIGHT
478
08-Jun-2023
14:56
linh
pham




AFTER
MASS
55
AREA
750
HEIGHT
478
21-Jun-2023
13:47
linh
pha



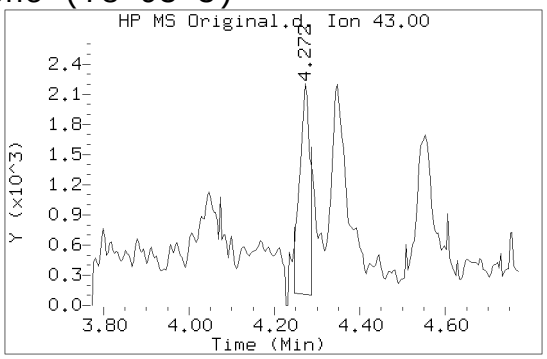
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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## 2-Butanone (78-93-3)

Reason Code:

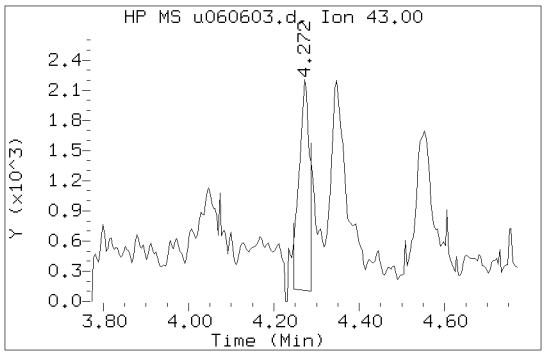
BEFORE

MASS
43
AREA
3610
HEIGHT
2093
08-Jun-2023
14:56
linh
pham



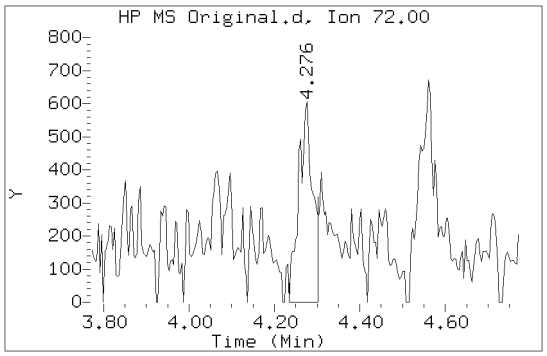

AFTER

MASS
43
AREA
3610
HEIGHT
2093
21-Jun-2023
13:47
linh
pha



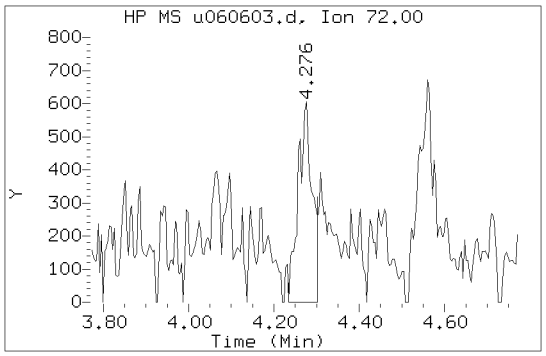

BEFORE

MASS
72
AREA
1400
HEIGHT
606
08-Jun-2023
14:56
linh
pham




AFTER

MASS
72
AREA
1400
HEIGHT
606
21-Jun-2023
13:47
linh
pha

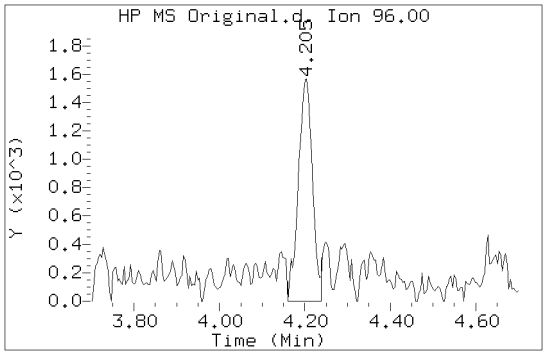



## cis-1,2-Dichloroethene (156-59-2)

Reason Code:

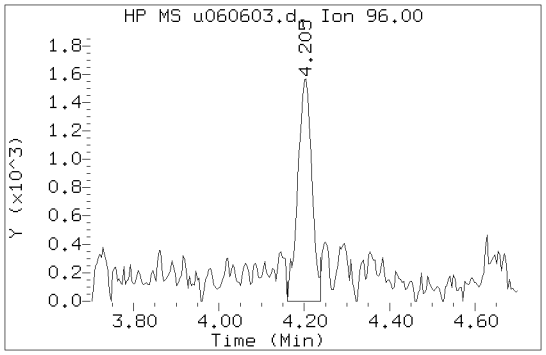
BEFORE

MASS
96
AREA
3640
HEIGHT
1571
08-Jun-2023
14:56
linh
pham



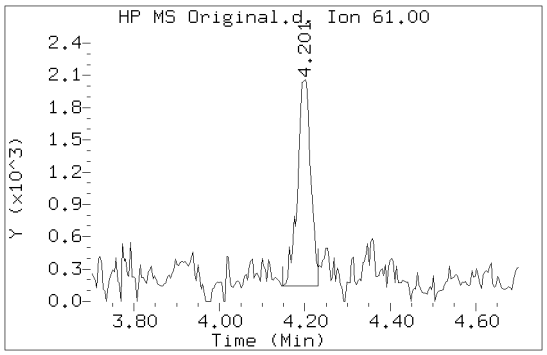

AFTER

MASS
96
AREA
3640
HEIGHT
1571
21-Jun-2023
13:47
linh
pha



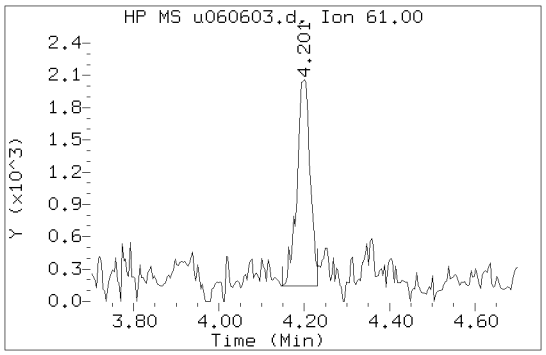

BEFORE

MASS
61
AREA
4196
HEIGHT
1915
08-Jun-2023
14:56
linh
pham




AFTER

MASS
61
AREA
4196
HEIGHT
1915
21-Jun-2023
13:47
linh
pha



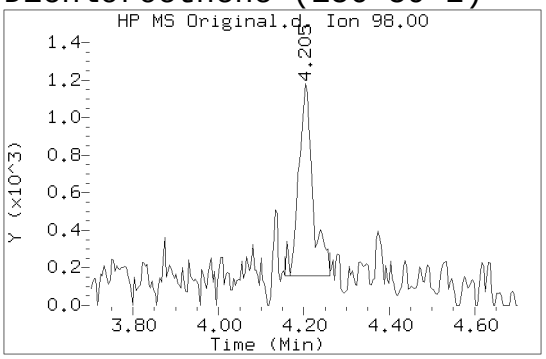
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## cis-1,2-Dichloroethene (156-59-2)

Reason Code:

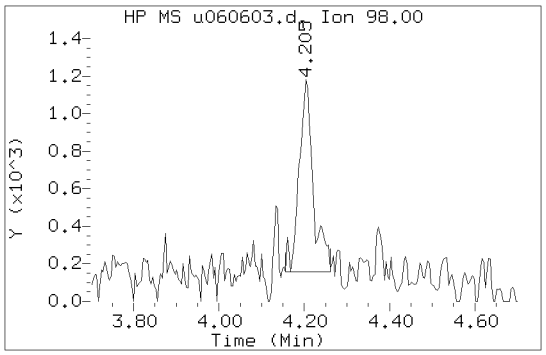
BEFORE

MASS
98
AREA
2375
HEIGHT
1023
08-Jun-2023
14:56
linh
pham




AFTER

MASS
98
AREA
2375
HEIGHT
1023
21-Jun-2023
13:47
linh
pha

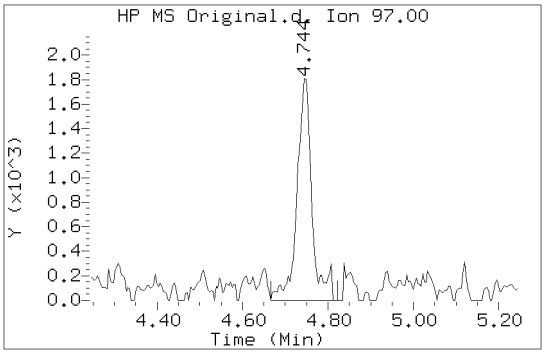



## 1,1,1-Trichloroethane (71-55-6)

Reason Code:

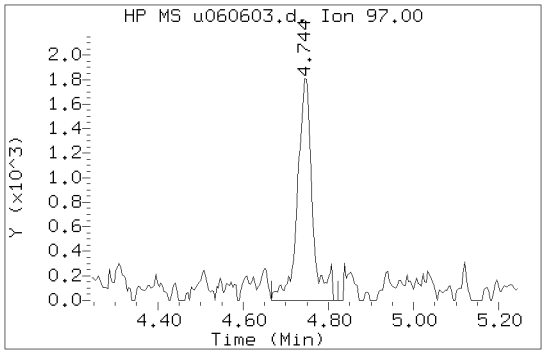
BEFORE

MASS
97
AREA
4434
HEIGHT
1807
08-Jun-2023
14:56
linh
pham



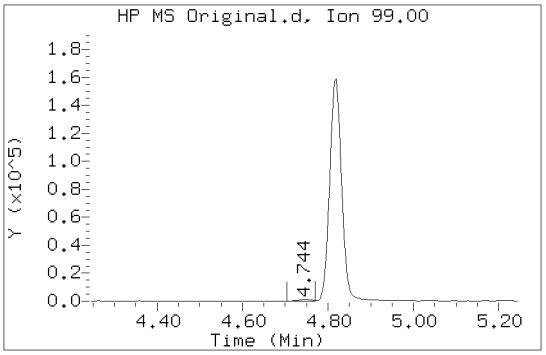

AFTER

MASS
97
AREA
4434
HEIGHT
1807
21-Jun-2023
13:47
linh
pha



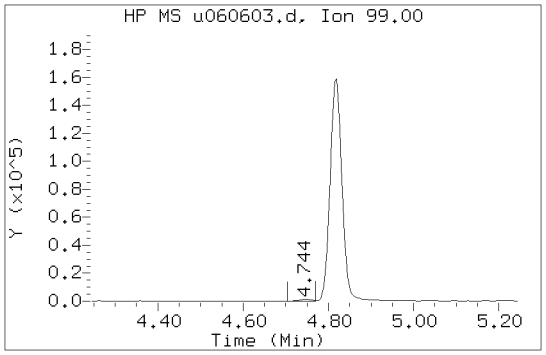

BEFORE

MASS
99
AREA
2413
HEIGHT
1165
08-Jun-2023
14:56
linh
pham



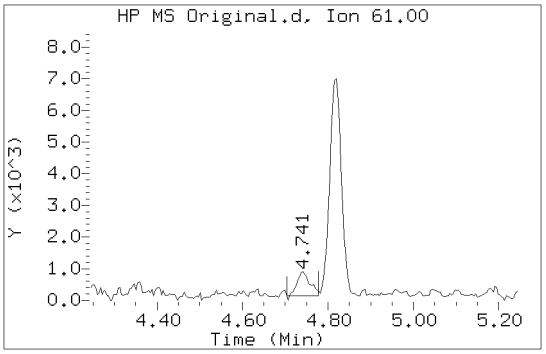

AFTER

MASS
99
AREA
2413
HEIGHT
1165
21-Jun-2023
13:47
linh
pha



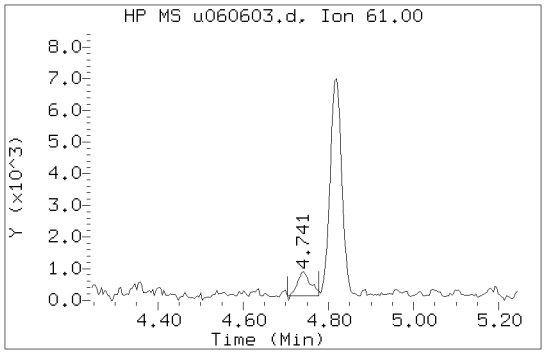

BEFORE

MASS
61
AREA
1649
HEIGHT
774
08-Jun-2023
14:56
linh
pham




AFTER

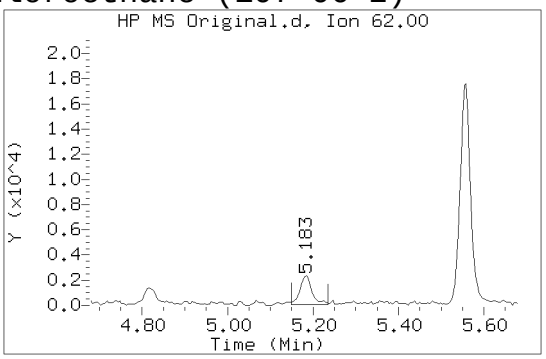
MASS
61
AREA
1649
HEIGHT
774
21-Jun-2023
13:47
linh
pha



Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

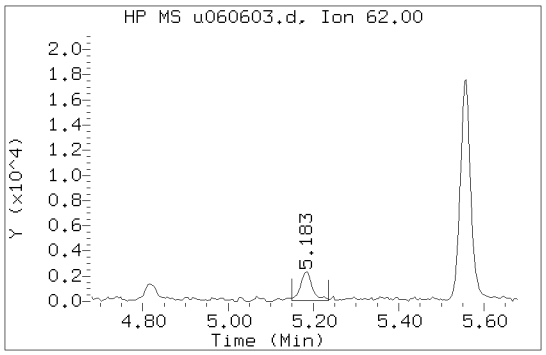
## 1,2-Dichloroethane (107-06-2)

BEFORE
MASS
62
AREA
4646
HEIGHT
2294
08-Jun-2023
14:56
linh
pham

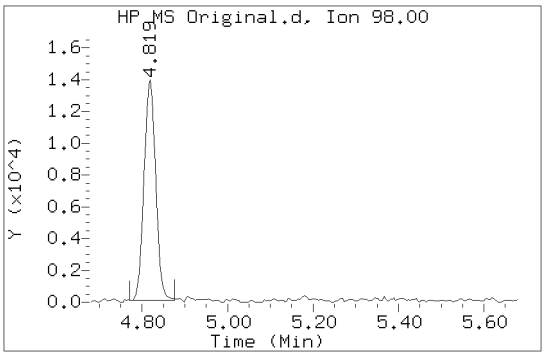



Reason Code:

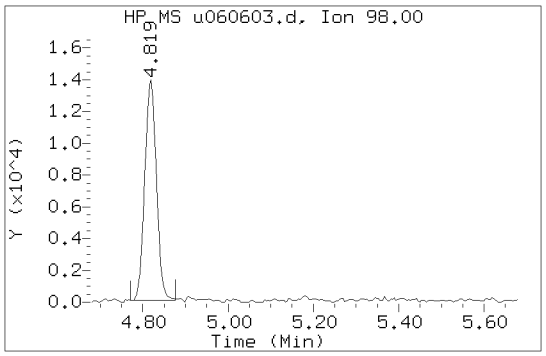
AFTER
MASS
62
AREA
4646
HEIGHT
2294
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
98
AREA
26343
HEIGHT
13869
08-Jun-2023
14:56
linh
pham

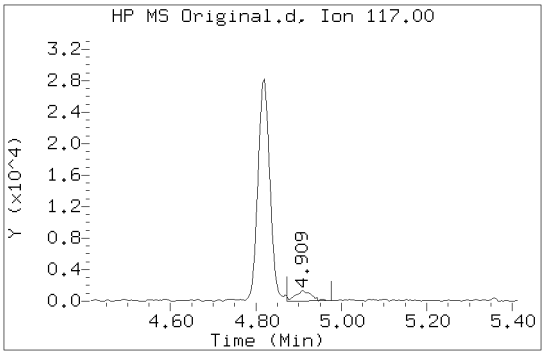



AFTER
MASS
98
AREA
26343
HEIGHT
13869
21-Jun-2023
13:47
linh
pha



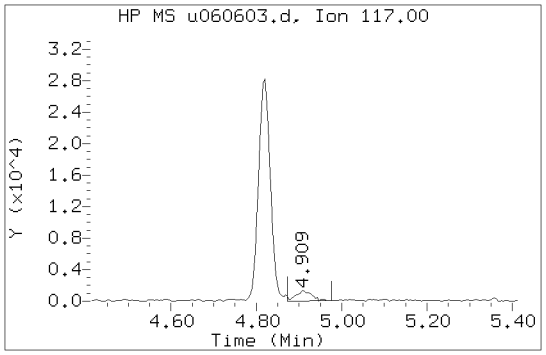

## Carbon Tetrachloride (56-23-5)

BEFORE
MASS
117
AREA
3518
HEIGHT
1311
08-Jun-2023
14:56
linh
pham

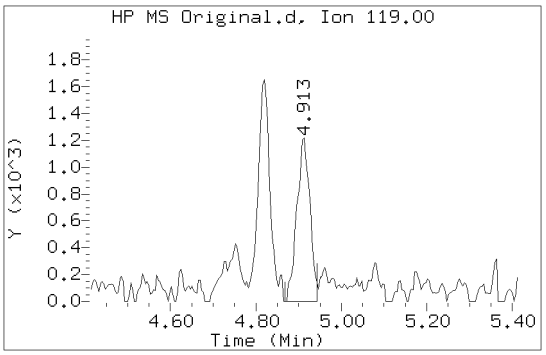



Reason Code:

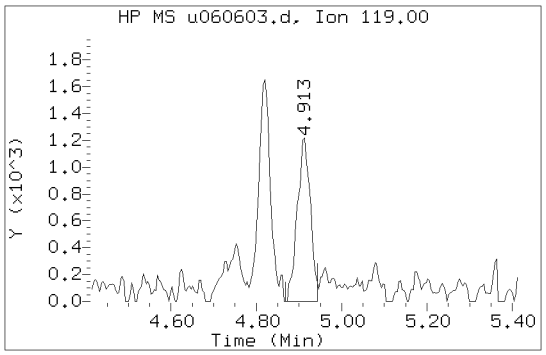
AFTER
MASS
117
AREA
3518
HEIGHT
1311
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
119
AREA
2642
HEIGHT
1217
08-Jun-2023
14:56
linh
pham




AFTER
MASS
119
AREA
2642
HEIGHT
1217
21-Jun-2023
13:47
linh
pha

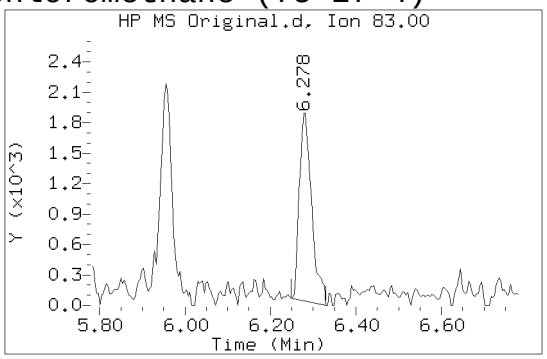


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

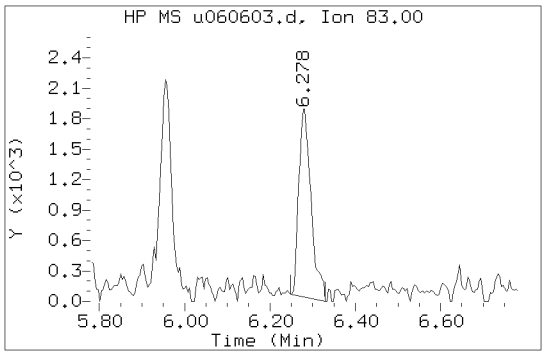
## Bromodichloromethane (75-27-4)

Reason Code:

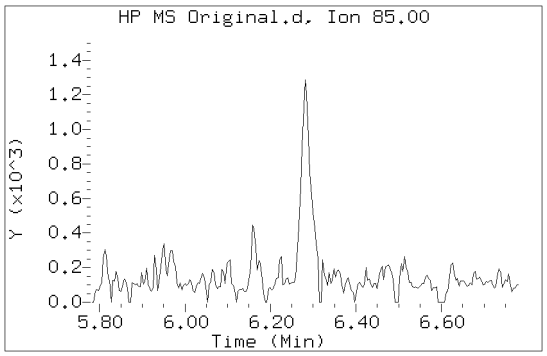
BEFORE
MASS
83
AREA
3797
HEIGHT
1853
08-Jun-2023
14:56
linh
pham



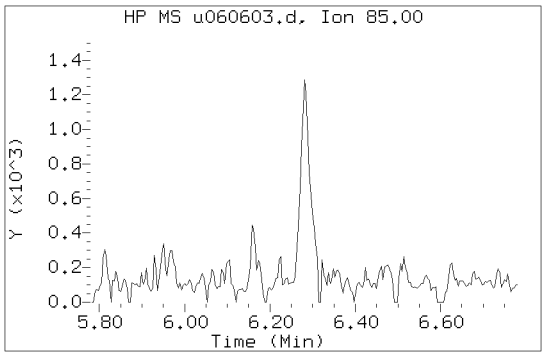

AFTER
MASS
83
AREA
3797
HEIGHT
1853
21-Jun-2023
13:47
linh
pha



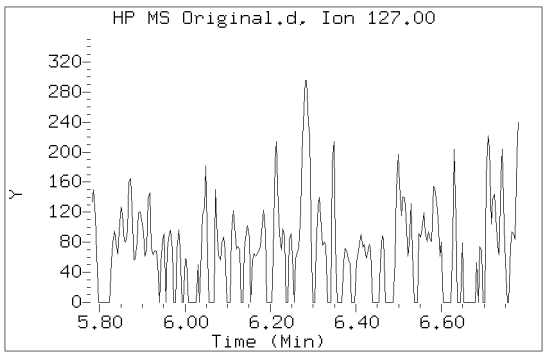

BEFORE
MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



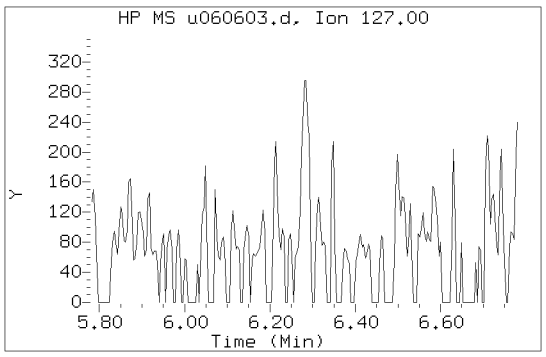

AFTER
MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
127
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



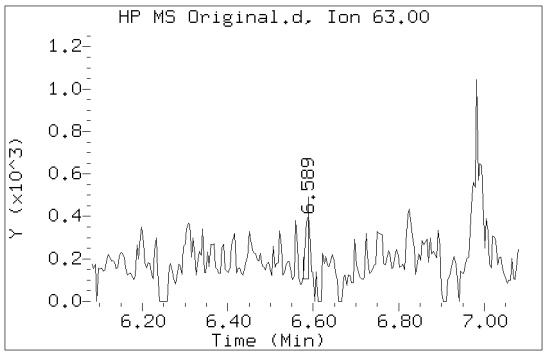

AFTER
MASS
127
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



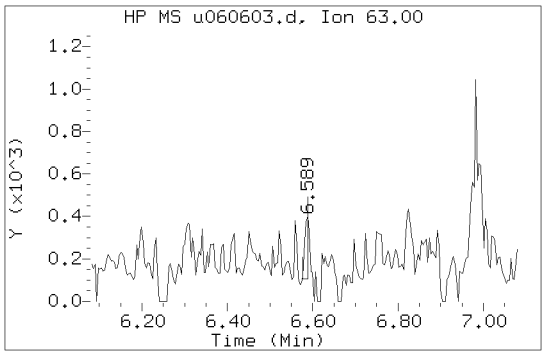

## 2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE
MASS
63
AREA
169
HEIGHT
296
08-Jun-2023
14:56
linh
pham




AFTER
MASS
63
AREA
169
HEIGHT
296
21-Jun-2023
13:47
linh
pha

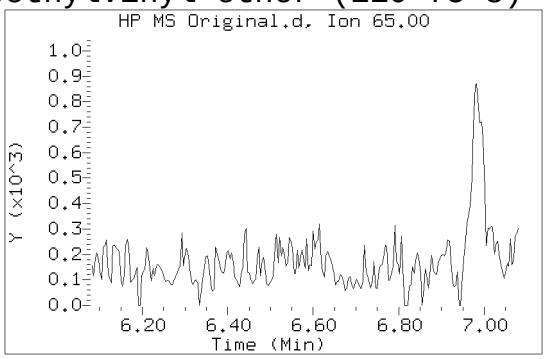


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

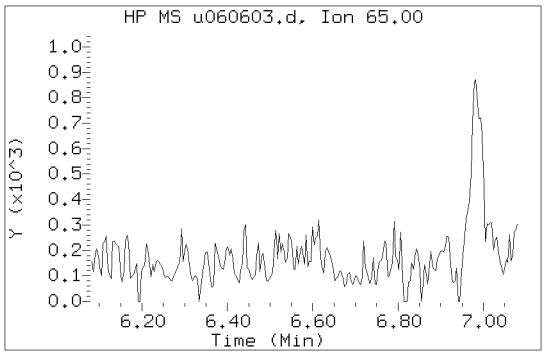
## 2-Chloroethylvinyl ether (110-75-8)

Reason Code:

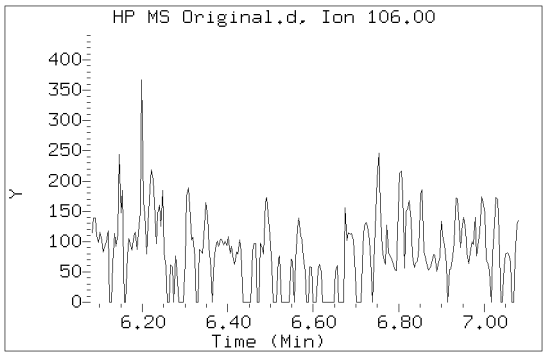
BEFORE
MASS
65
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



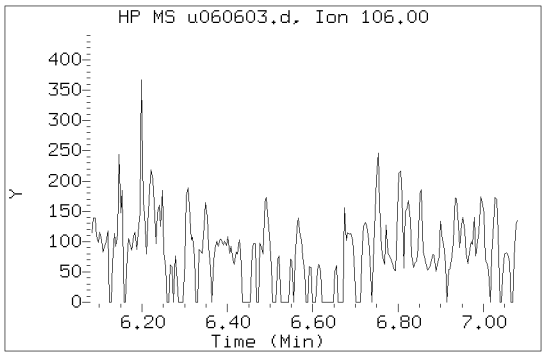

AFTER
MASS
65
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
106
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



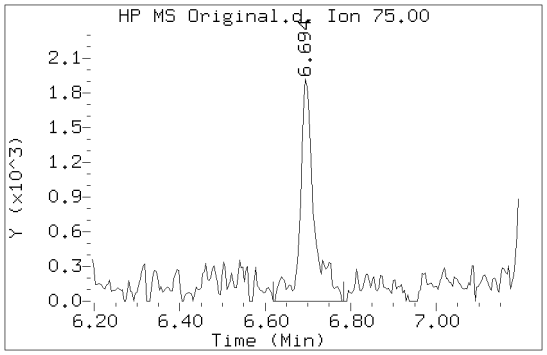

AFTER
MASS
106
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



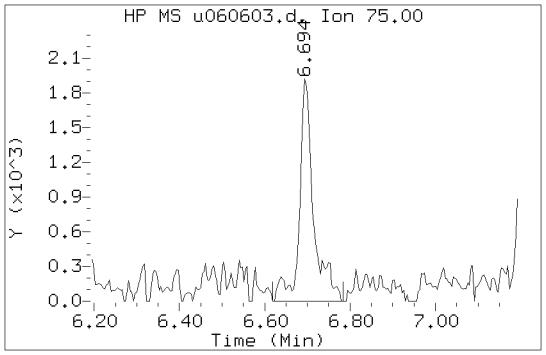

## cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

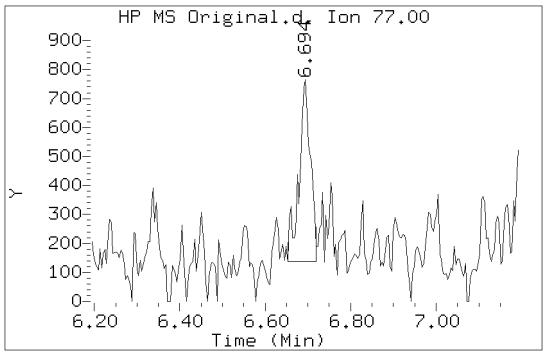
BEFORE
MASS
75
AREA
4533
HEIGHT
1923
08-Jun-2023
14:56
linh
pham



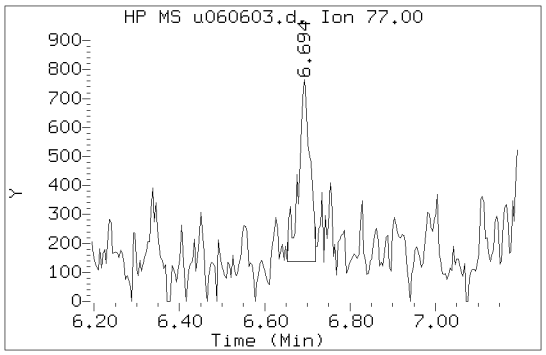

AFTER
MASS
75
AREA
4533
HEIGHT
1923
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
77
AREA
1180
HEIGHT
628
08-Jun-2023
14:56
linh
pham




AFTER
MASS
77
AREA
1180
HEIGHT
628
21-Jun-2023
13:47
linh
pha



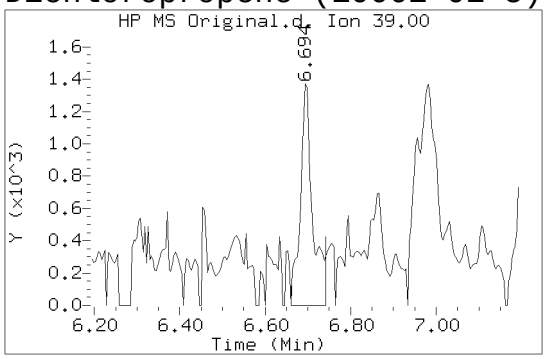
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

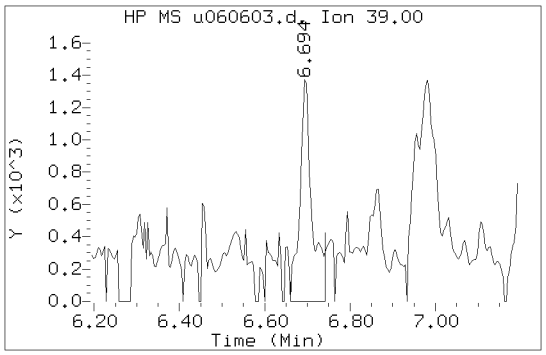
BEFORE

MASS
39
AREA
2809
HEIGHT
1372
08-Jun-2023
14:56
linh
pham




AFTER

MASS
39
AREA
2809
HEIGHT
1372
21-Jun-2023
13:47
linh
pha

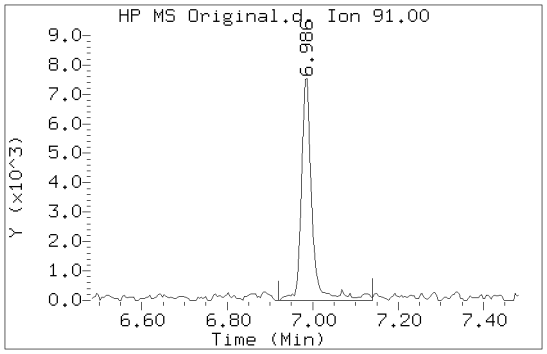



## Toluene (108-88-3)

Reason Code:

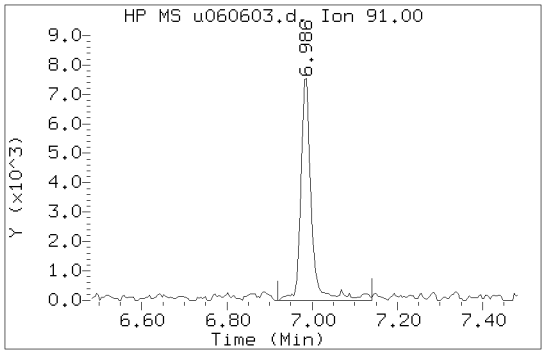
BEFORE

MASS
91
AREA
13471
HEIGHT
7534
08-Jun-2023
14:56
linh
pham



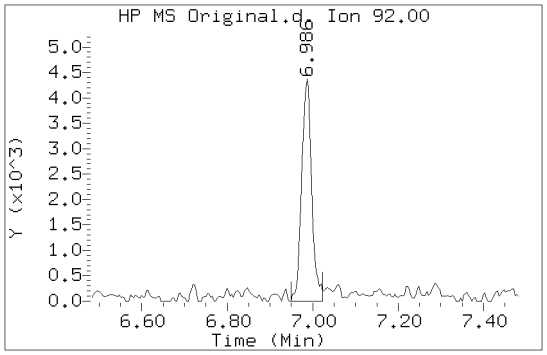

AFTER

MASS
91
AREA
13471
HEIGHT
7534
21-Jun-2023
13:47
linh
pha



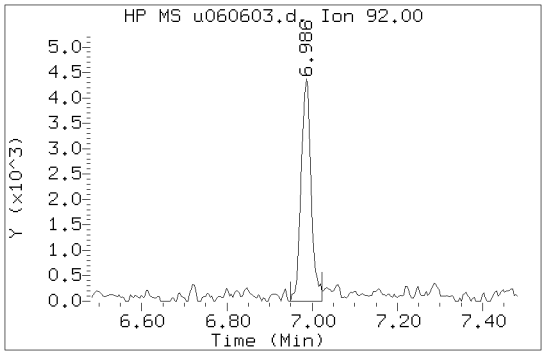

BEFORE

MASS
92
AREA
7328
HEIGHT
4373
08-Jun-2023
14:56
linh
pham




AFTER

MASS
92
AREA
7328
HEIGHT
4373
21-Jun-2023
13:47
linh
pha

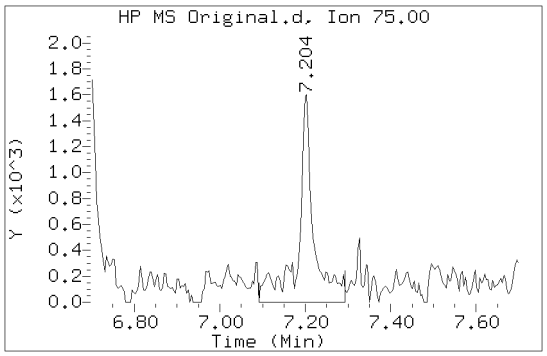



## trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

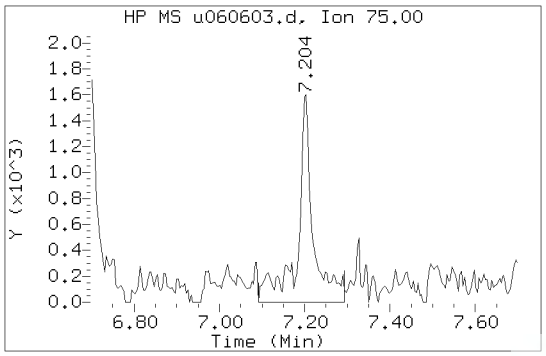
BEFORE

MASS
75
AREA
4073
HEIGHT
1603
08-Jun-2023
14:56
linh
pham




AFTER

MASS
75
AREA
4073
HEIGHT
1603
21-Jun-2023
13:47
linh
pha

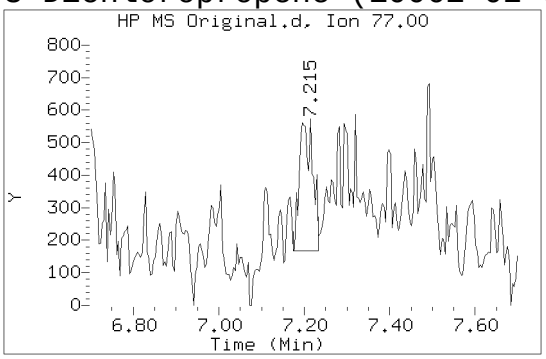


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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

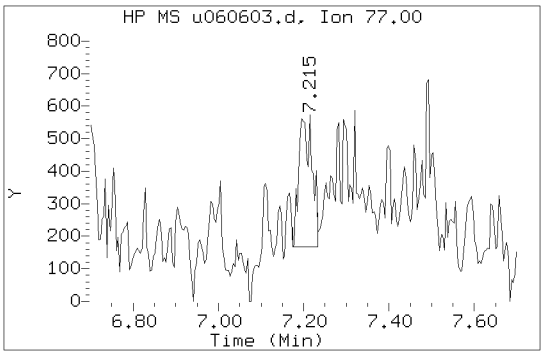
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Reason Code:

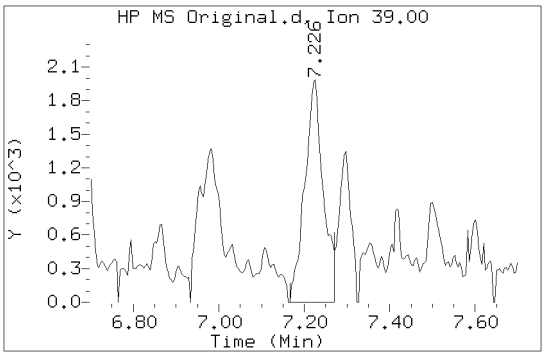
BEFORE
MASS
77
AREA
877
HEIGHT
407
08-Jun-2023
14:56
linh
pham



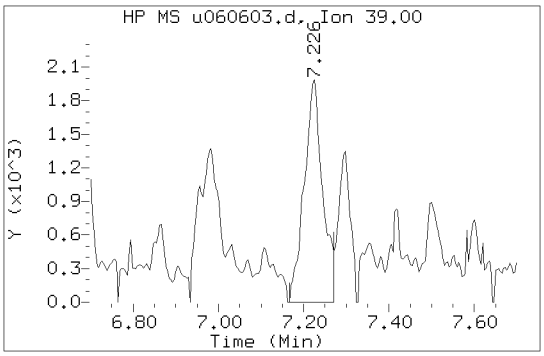

AFTER
MASS
77
AREA
877
HEIGHT
407
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
39
AREA
6017
HEIGHT
1985
08-Jun-2023
14:56
linh
pham



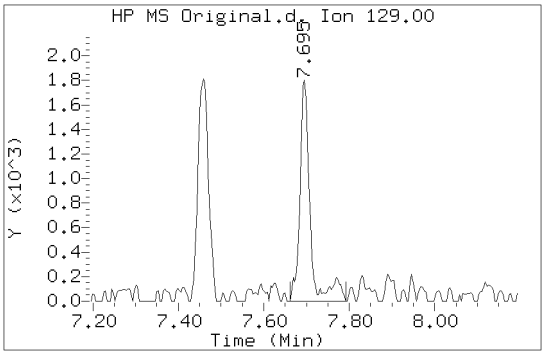

AFTER
MASS
39
AREA
6017
HEIGHT
1985
21-Jun-2023
13:47
linh
pha



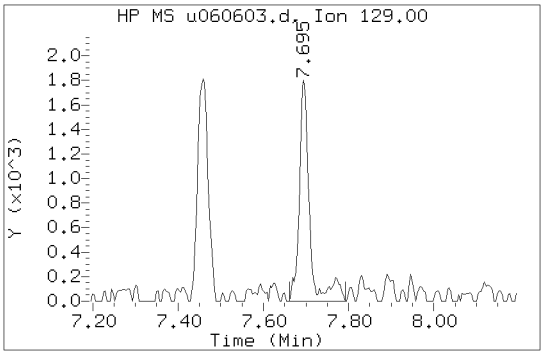

## Dibromochloromethane (124-48-1)

Reason Code:

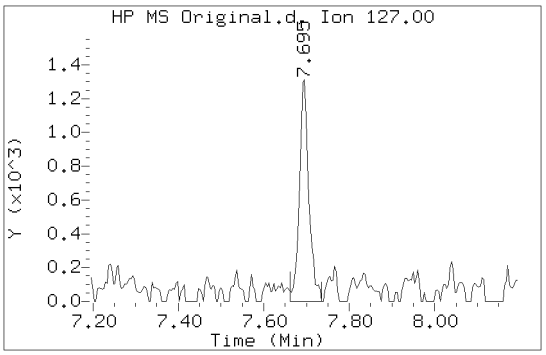
BEFORE
MASS
129
AREA
3068
HEIGHT
1800
08-Jun-2023
14:56
linh
pham



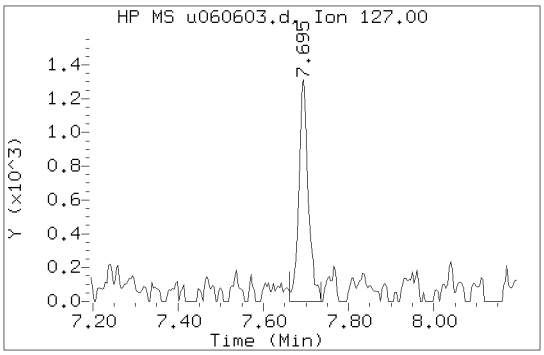

AFTER
MASS
129
AREA
3068
HEIGHT
1800
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
127
AREA
2055
HEIGHT
1312
08-Jun-2023
14:56
linh
pham




AFTER
MASS
127
AREA
2055
HEIGHT
1312
21-Jun-2023
13:47
linh
pha

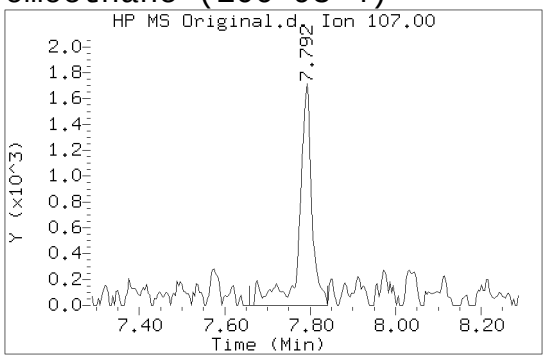


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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

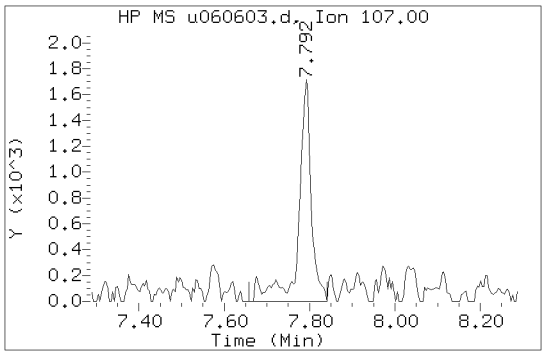
## 1,2-Dibromoethane (106-93-4)

Reason Code:

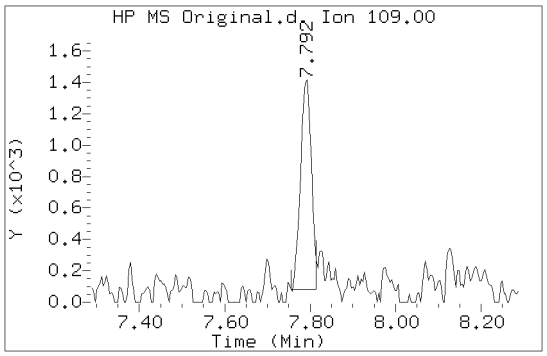
BEFORE
MASS
107
AREA
3622
HEIGHT
1715
08-Jun-2023
14:56
linh
pham



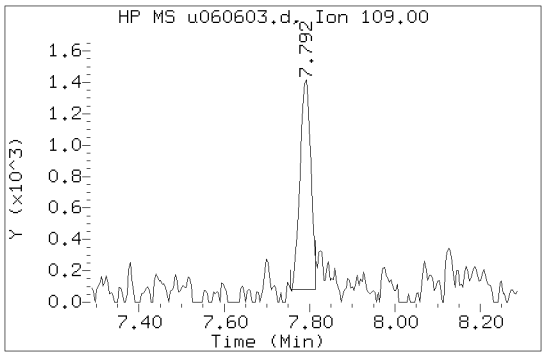

AFTER
MASS
107
AREA
3622
HEIGHT
1715
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
109
AREA
2422
HEIGHT
1334
08-Jun-2023
14:56
linh
pham



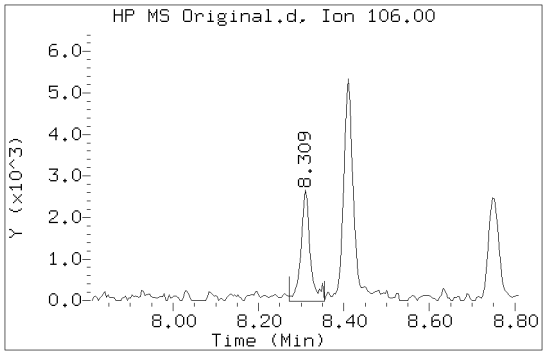

AFTER
MASS
109
AREA
2422
HEIGHT
1334
21-Jun-2023
13:47
linh
pha



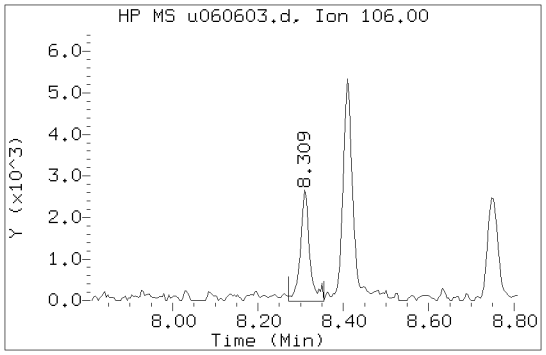

## Ethylbenzene (100-41-4)

Reason Code:

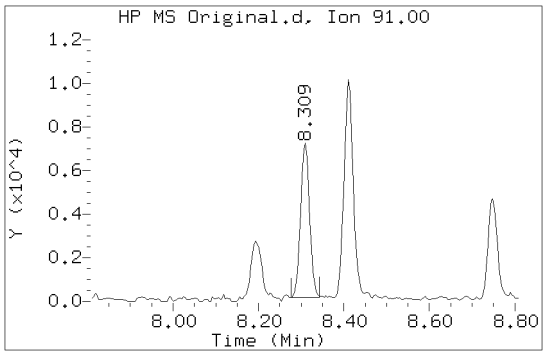
BEFORE
MASS
106
AREA
4142
HEIGHT
2674
08-Jun-2023
14:56
linh
pham



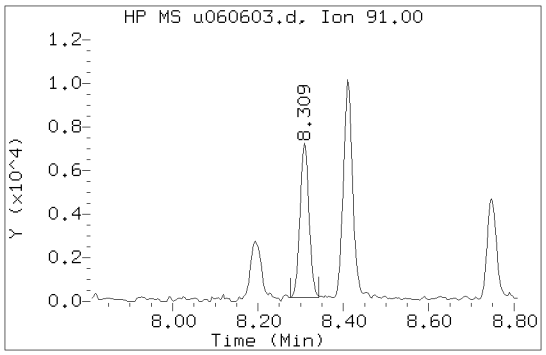

AFTER
MASS
106
AREA
4142
HEIGHT
2674
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
91
AREA
10611
HEIGHT
7101
08-Jun-2023
14:56
linh
pham




AFTER
MASS
91
AREA
10611
HEIGHT
7101
21-Jun-2023
13:47
linh
pha



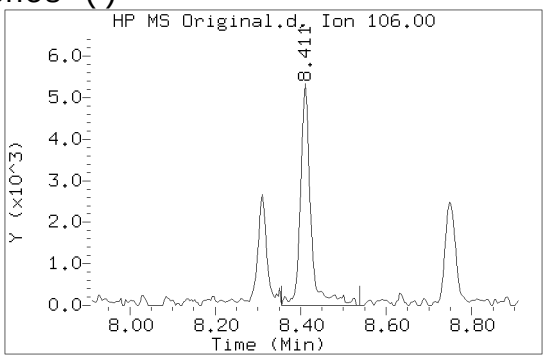
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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## m,p-Xylenes ()

Reason Code:

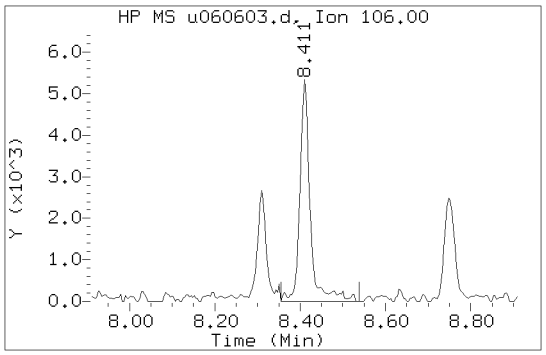
BEFORE

MASS
106
AREA
9164
HEIGHT
5338
08-Jun-2023
14:56
linh
pham



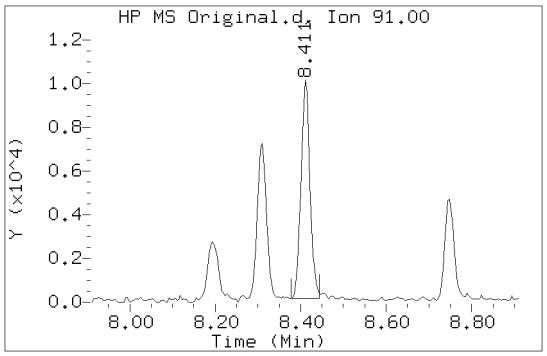

AFTER

MASS
106
AREA
9164
HEIGHT
5338
21-Jun-2023
13:47
linh
pha



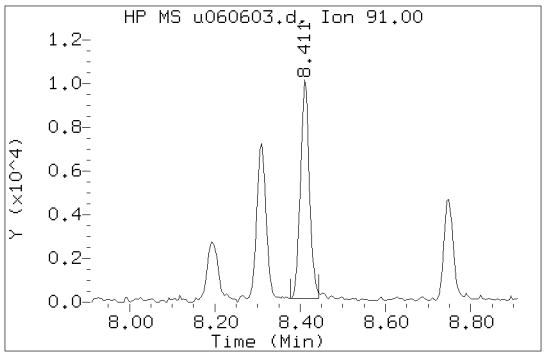

BEFORE

MASS
91
AREA
14815
HEIGHT
9979
08-Jun-2023
14:56
linh
pham




AFTER

MASS
91
AREA
14815
HEIGHT
9979
21-Jun-2023
13:47
linh
pha

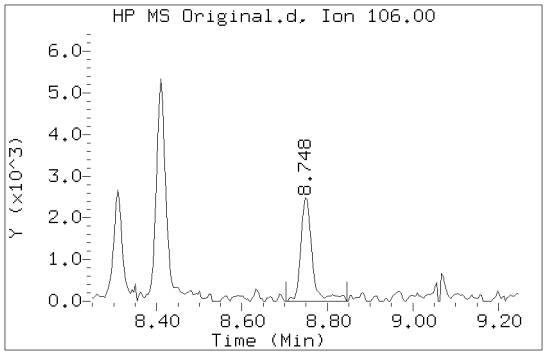



## o-Xylene (95-47-6)

Reason Code:

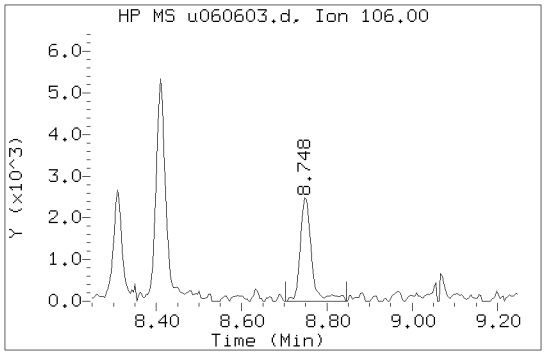
BEFORE

MASS
106
AREA
4736
HEIGHT
2481
08-Jun-2023
14:56
linh
pham



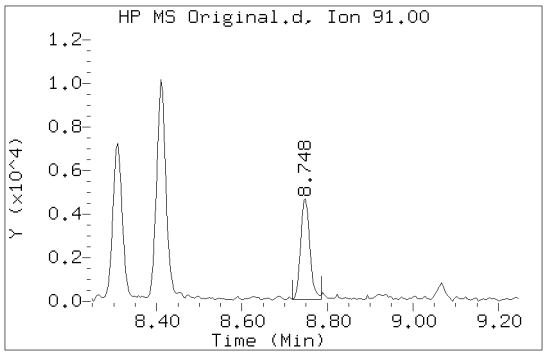

AFTER

MASS
106
AREA
4736
HEIGHT
2481
21-Jun-2023
13:47
linh
pha



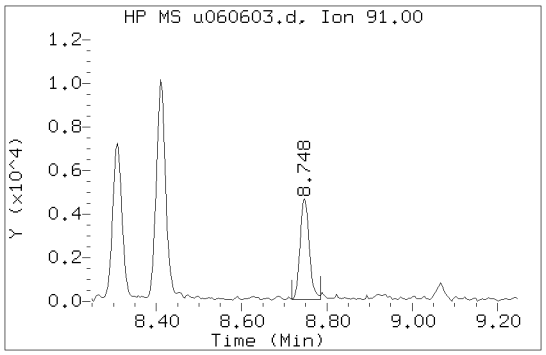

BEFORE

MASS
91
AREA
7145
HEIGHT
4614
08-Jun-2023
14:56
linh
pham




AFTER

MASS
91
AREA
7145
HEIGHT
4614
21-Jun-2023
13:47
linh
pha

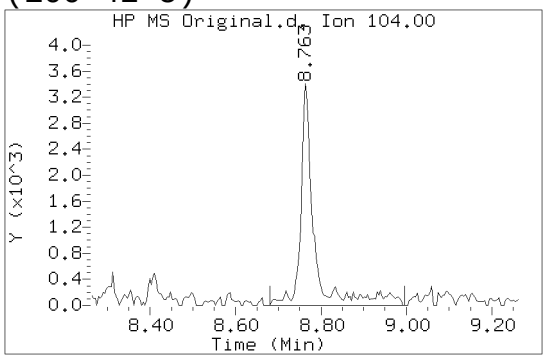


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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

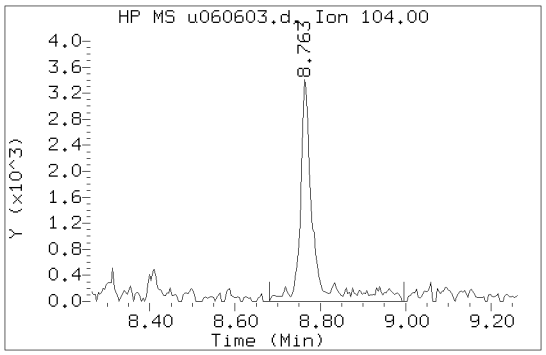
## Styrene (100-42-5)

Reason Code:

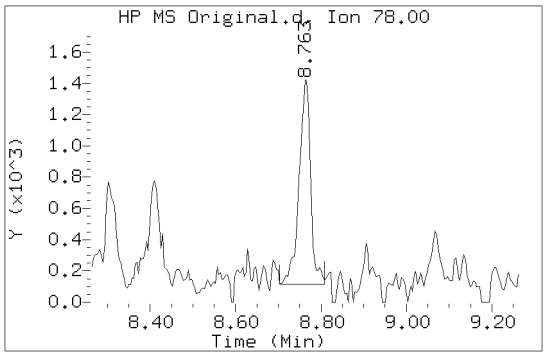
BEFORE
MASS
104
AREA
7547
HEIGHT
3407
08-Jun-2023
14:56
linh
pham



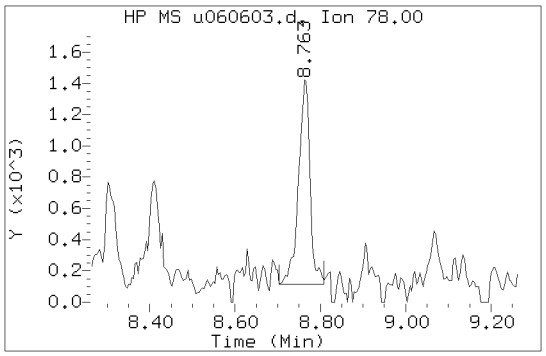

AFTER
MASS
104
AREA
7547
HEIGHT
3407
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
78
AREA
2506
HEIGHT
1307
08-Jun-2023
14:56
linh
pham



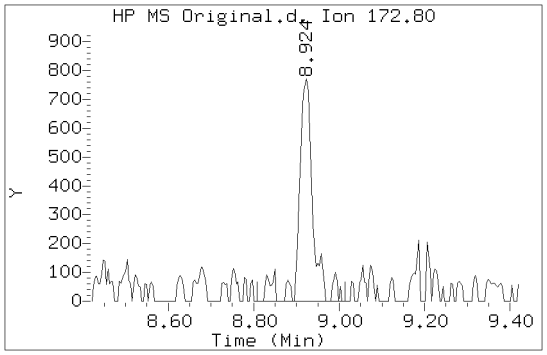

AFTER
MASS
78
AREA
2506
HEIGHT
1307
21-Jun-2023
13:47
linh
pha



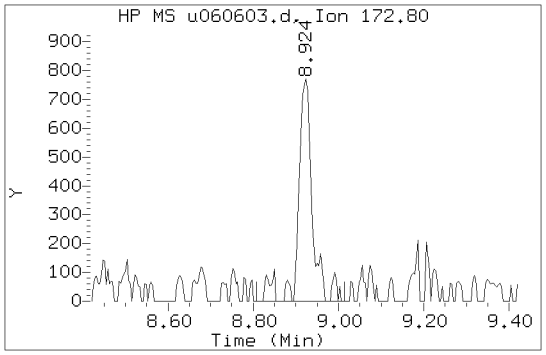

## Bromoform (75-25-2)

Reason Code:

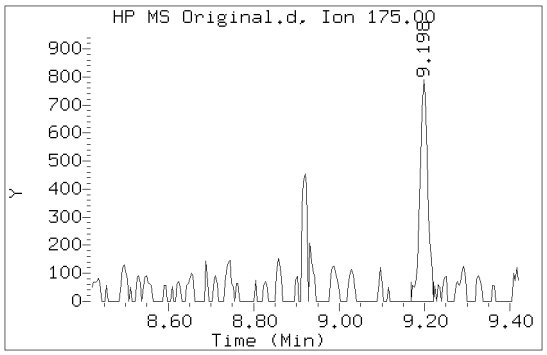
BEFORE
MASS
172.8
AREA
1797
HEIGHT
771
08-Jun-2023
14:56
linh
pham



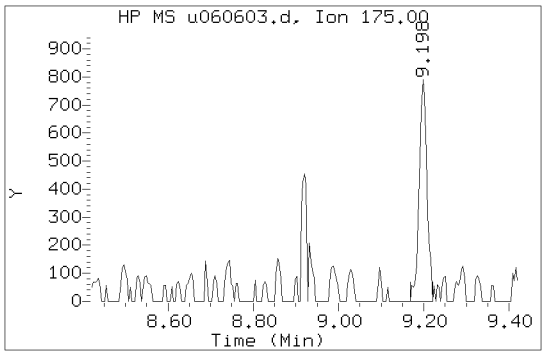

AFTER
MASS
172.8
AREA
1797
HEIGHT
771
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
175
AREA
1005
HEIGHT
790
08-Jun-2023
14:56
linh
pham




AFTER
MASS
175
AREA
1005
HEIGHT
790
21-Jun-2023
13:47
linh
pha



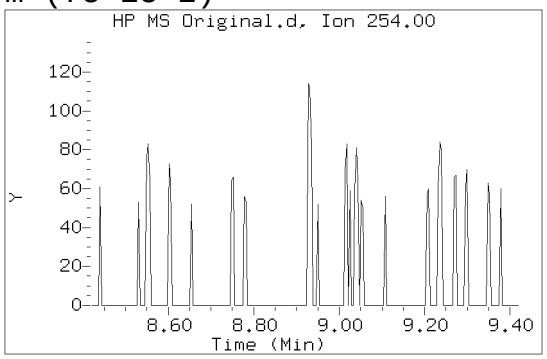
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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## Bromoform (75-25-2)

Reason Code:

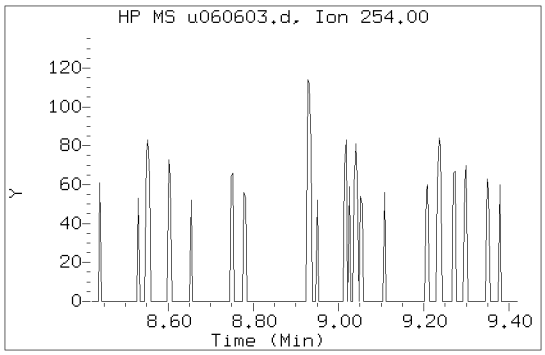
**BEFORE**

MASS
254
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
254
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

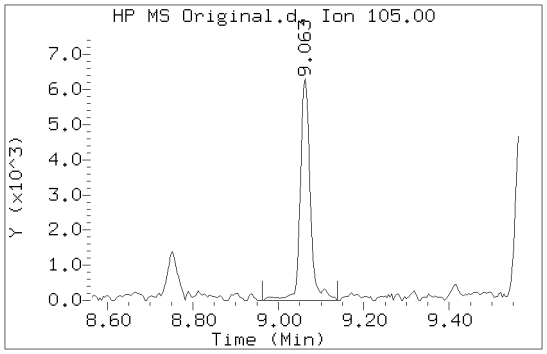



## Isopropylbenzene (98-82-8)

Reason Code:

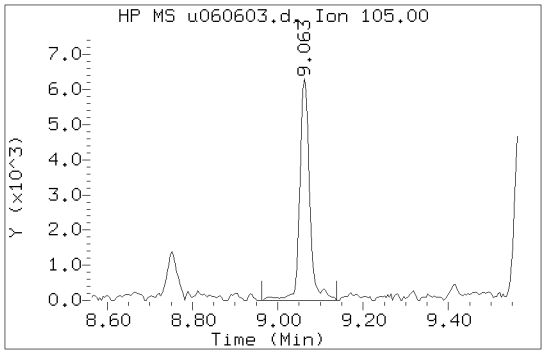
**BEFORE**

MASS
105
AREA
10525
HEIGHT
6310
08-Jun-2023
14:56
linh
pham



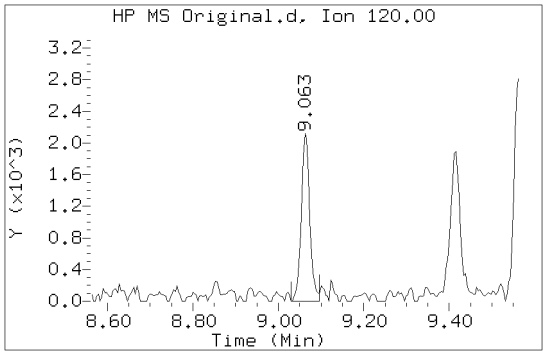

**AFTER**

MASS
105
AREA
10525
HEIGHT
6310
21-Jun-2023
13:47
linh
pha



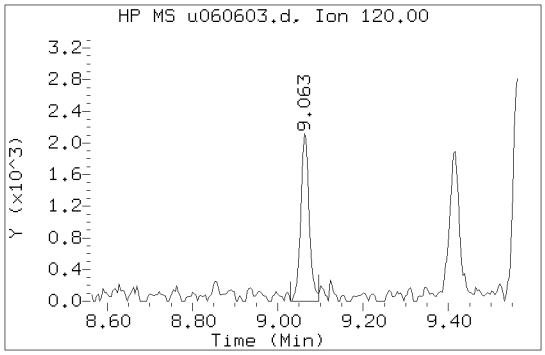

**BEFORE**

MASS
120
AREA
2979
HEIGHT
2122
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
120
AREA
2979
HEIGHT
2122
21-Jun-2023
13:47
linh
pha

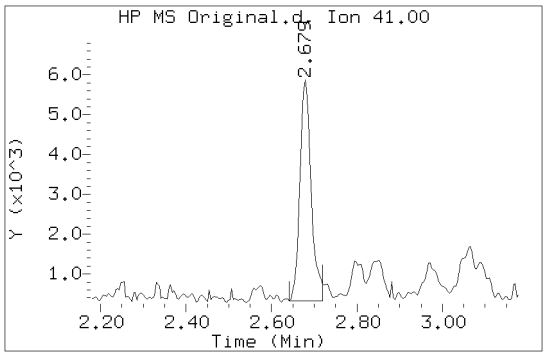



## Allyl Chloride (107-05-1)

Reason Code:

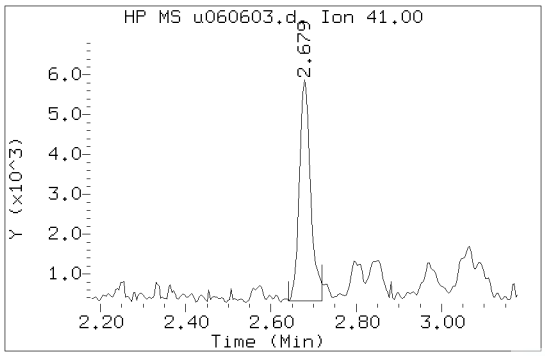
**BEFORE**

MASS
41
AREA
10377
HEIGHT
5545
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
41
AREA
10377
HEIGHT
5545
21-Jun-2023
13:47
linh
pha



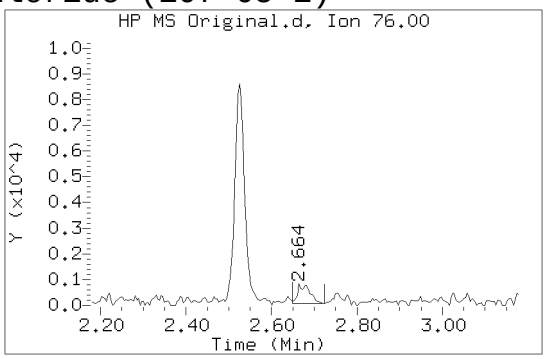
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## Allyl Chloride (107-05-1)

Reason Code:

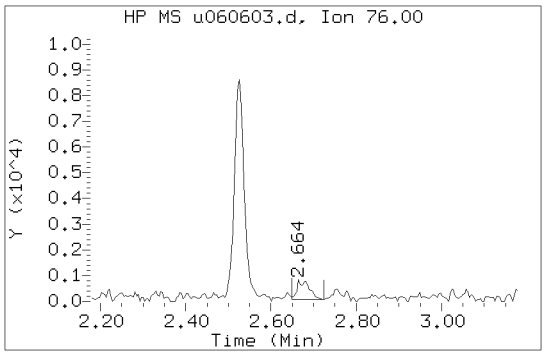
BEFORE

MASS
76
AREA
1452
HEIGHT
753
08-Jun-2023
14:56
linh
pham




AFTER

MASS
76
AREA
1452
HEIGHT
753
21-Jun-2023
13:47
linh
pha

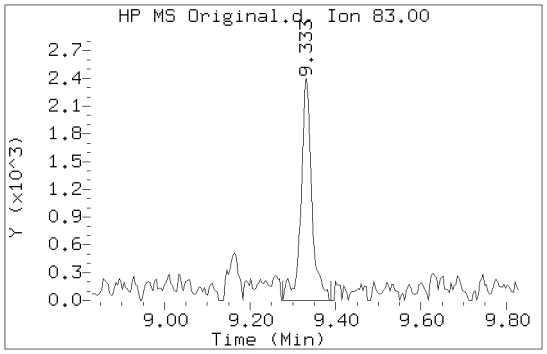



## 1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

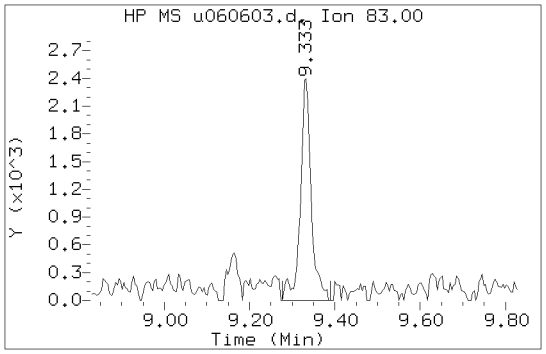
BEFORE

MASS
83
AREA
4333
HEIGHT
2397
08-Jun-2023
14:56
linh
pham



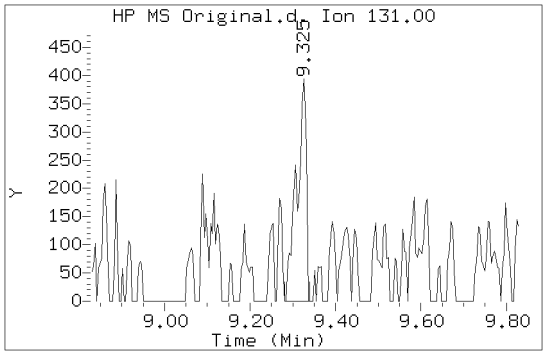

AFTER

MASS
83
AREA
4333
HEIGHT
2397
21-Jun-2023
13:47
linh
pha



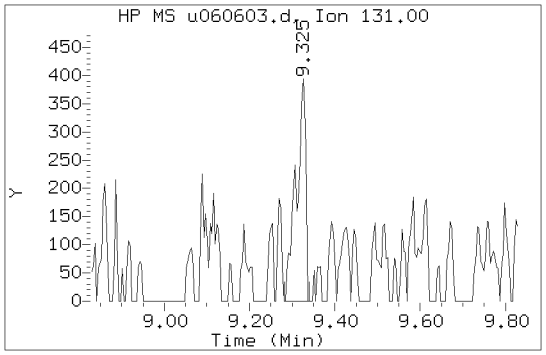

BEFORE

MASS
131
AREA
624
HEIGHT
394
08-Jun-2023
14:56
linh
pham



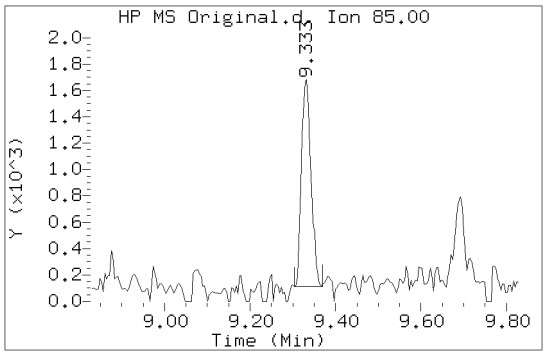

AFTER

MASS
131
AREA
624
HEIGHT
394
21-Jun-2023
13:47
linh
pha



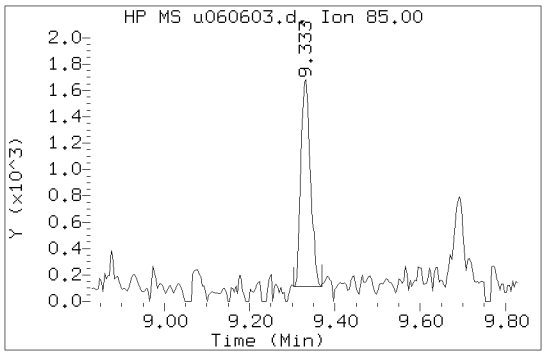

BEFORE

MASS
85
AREA
2508
HEIGHT
1568
08-Jun-2023
14:56
linh
pham




AFTER

MASS
85
AREA
2508
HEIGHT
1568
21-Jun-2023
13:47
linh
pha



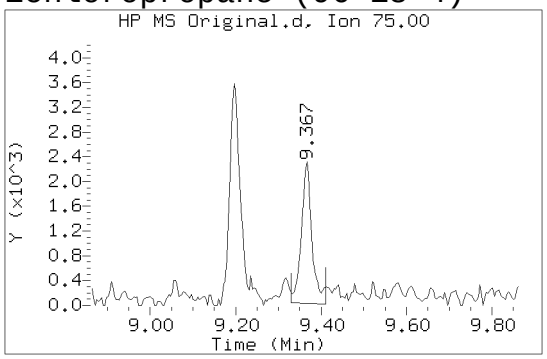
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## 1,2,3-Trichloropropane (96-18-4)

Reason Code:

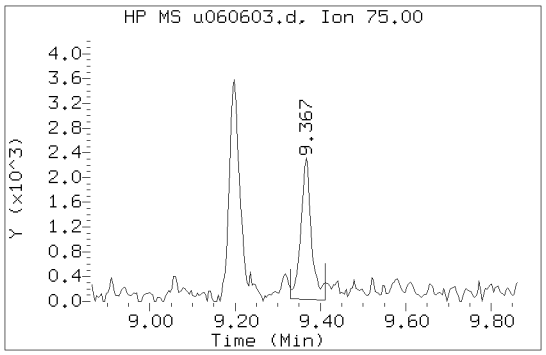
BEFORE

MASS
75
AREA
4089
HEIGHT
2289
08-Jun-2023
14:56
linh
pham



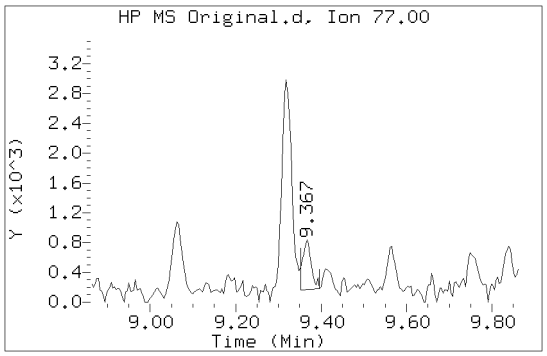

AFTER

MASS
75
AREA
4089
HEIGHT
2289
21-Jun-2023
13:47
linh
pha



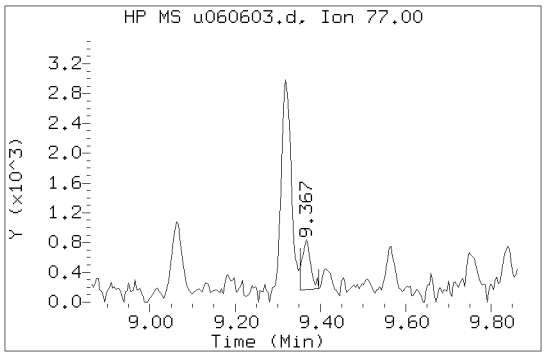

BEFORE

MASS
77
AREA
963
HEIGHT
669
08-Jun-2023
14:56
linh
pham




AFTER

MASS
77
AREA
963
HEIGHT
669
21-Jun-2023
13:47
linh
pha

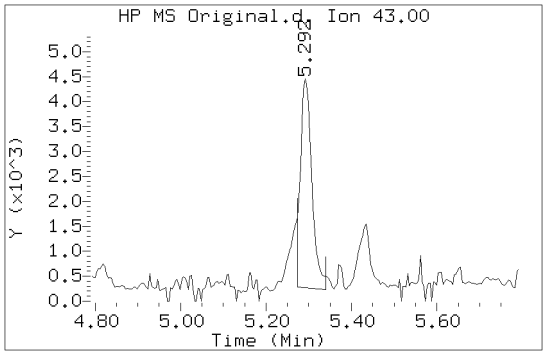



## Isobutyl Alcohol (78-83-1)

Reason Code:

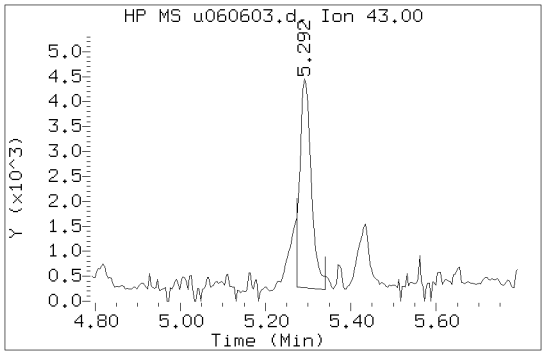
BEFORE

MASS
43
AREA
8062
HEIGHT
4185
08-Jun-2023
14:56
linh
pham



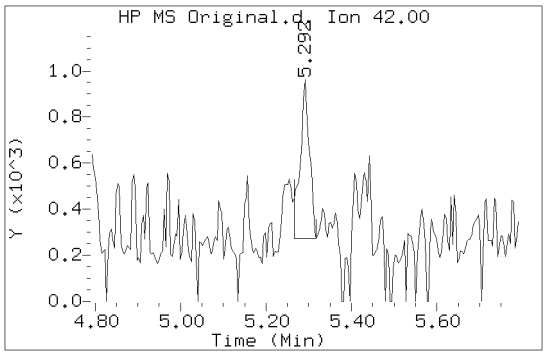

AFTER

MASS
43
AREA
8062
HEIGHT
4185
21-Jun-2023
13:47
linh
pha



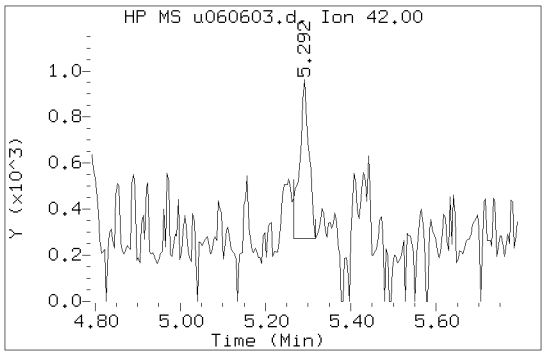

BEFORE

MASS
42
AREA
1073
HEIGHT
689
08-Jun-2023
14:56
linh
pham




AFTER

MASS
42
AREA
1073
HEIGHT
689
21-Jun-2023
13:47
linh
pha



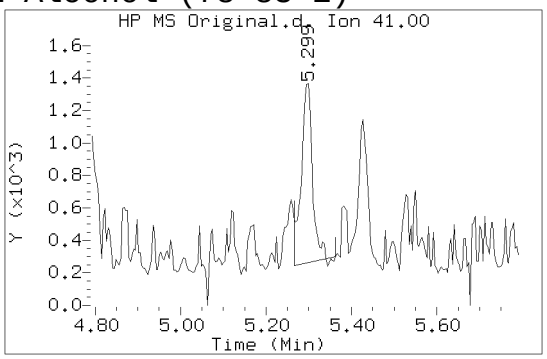
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## Isobutyl Alcohol (78-83-1)

Reason Code:

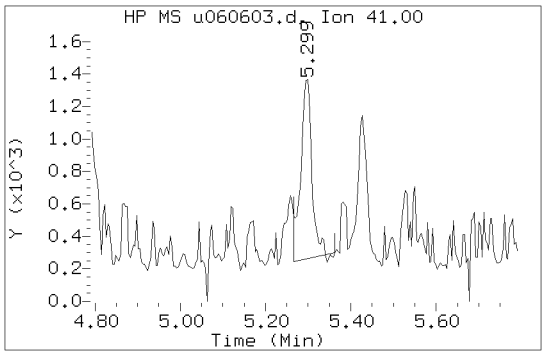
**BEFORE**

MASS
41
AREA
2043
HEIGHT
1100
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
41
AREA
2043
HEIGHT
1100
21-Jun-2023
13:47
linh
pha

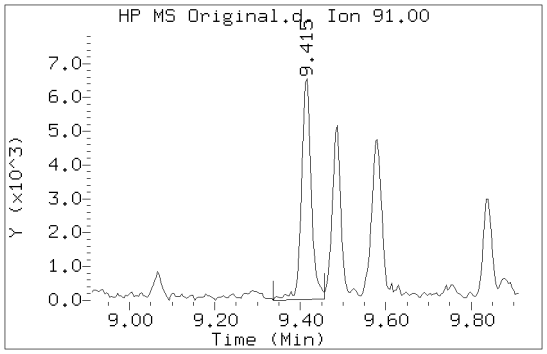



## n-Propylbenzene (106-65-1)

Reason Code:

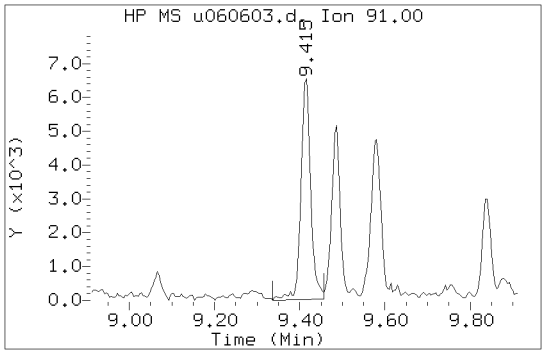
**BEFORE**

MASS
91
AREA
10721
HEIGHT
6532
08-Jun-2023
14:56
linh
pham



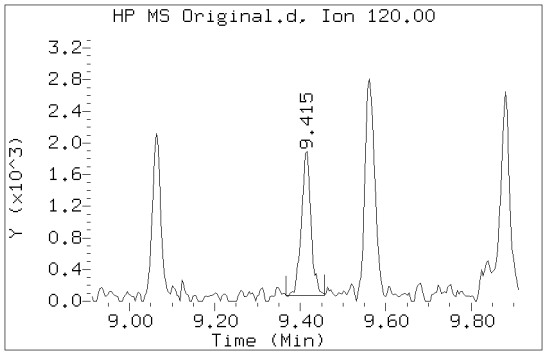

**AFTER**

MASS
91
AREA
10721
HEIGHT
6532
21-Jun-2023
13:47
linh
pha



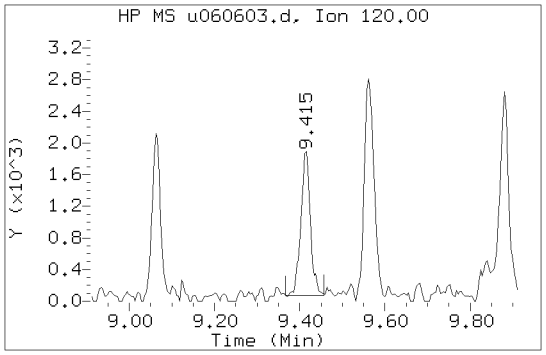

**BEFORE**

MASS
120
AREA
2911
HEIGHT
1823
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
120
AREA
2911
HEIGHT
1823
21-Jun-2023
13:47
linh
pha

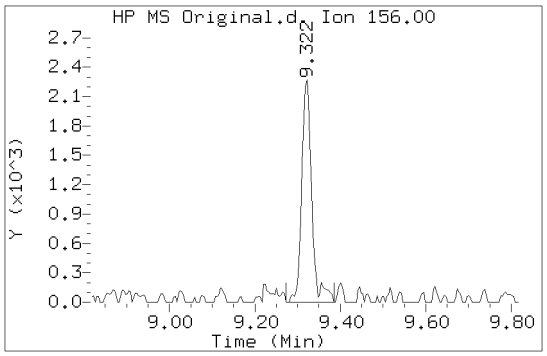



## Bromobenzene (108-86-1)

Reason Code:

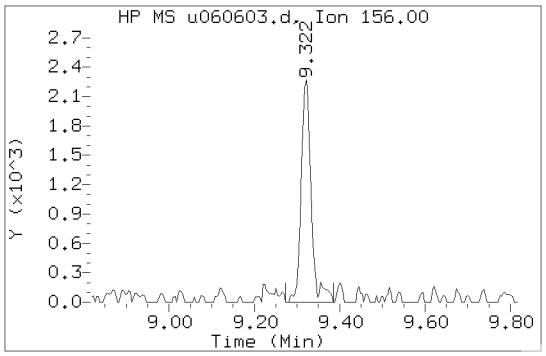
**BEFORE**

MASS
156
AREA
3800
HEIGHT
2270
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
156
AREA
3800
HEIGHT
2270
21-Jun-2023
13:47
linh
pha

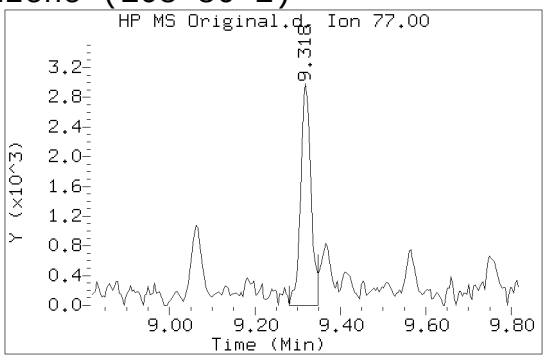


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

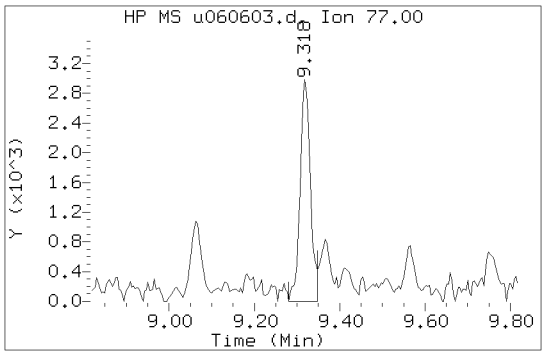
## Bromobenzene (108-86-1)

Reason Code:

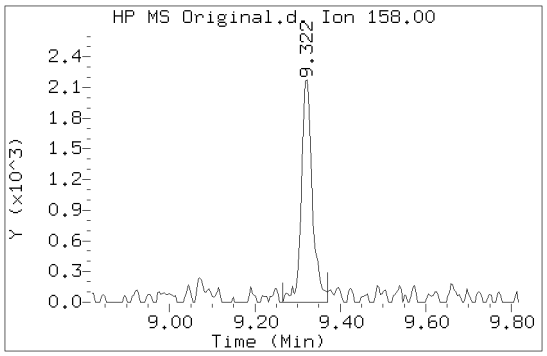
BEFORE
MASS
77
AREA
5137
HEIGHT
2983
08-Jun-2023
14:56
linh
pham



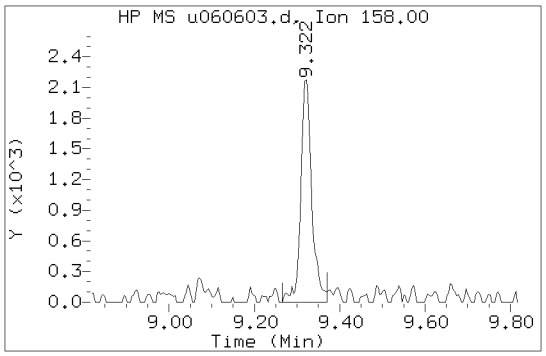

AFTER
MASS
77
AREA
5137
HEIGHT
2983
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
158
AREA
4021
HEIGHT
2175
08-Jun-2023
14:56
linh
pham



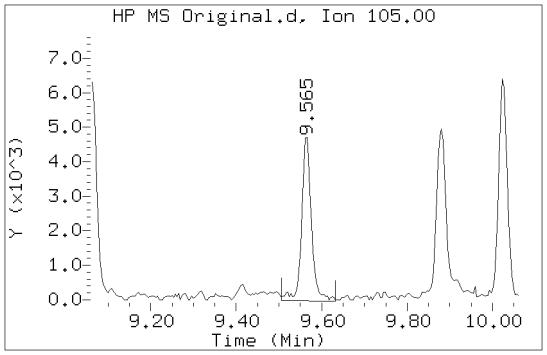

AFTER
MASS
158
AREA
4021
HEIGHT
2175
21-Jun-2023
13:47
linh
pha



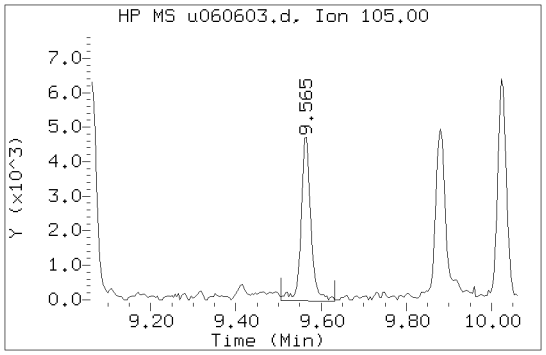

## 1,3,5-Trimethylbenzene (108-67-8)

Reason Code:

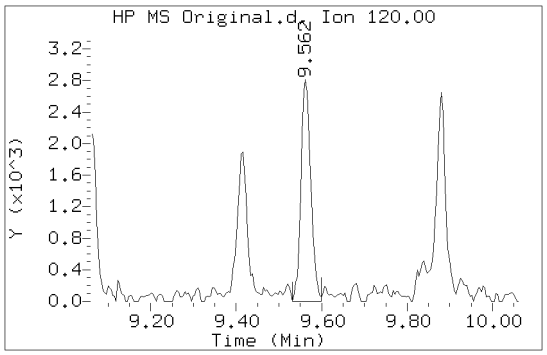
BEFORE
MASS
105
AREA
7820
HEIGHT
4732
08-Jun-2023
14:56
linh
pham



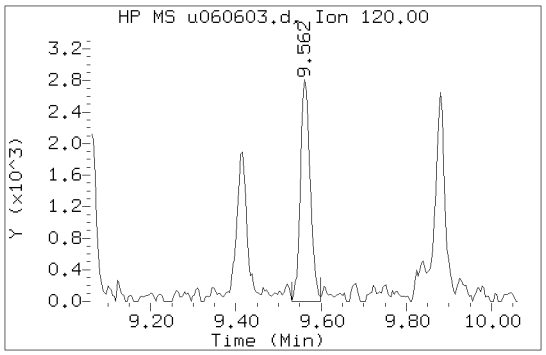

AFTER
MASS
105
AREA
7820
HEIGHT
4732
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
120
AREA
4592
HEIGHT
2810
08-Jun-2023
14:56
linh
pham




AFTER
MASS
120
AREA
4592
HEIGHT
2810
21-Jun-2023
13:47
linh
pha

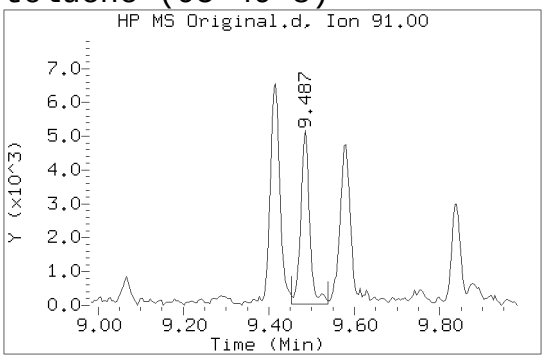


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## 2-Chlorotoluene (95-49-8)

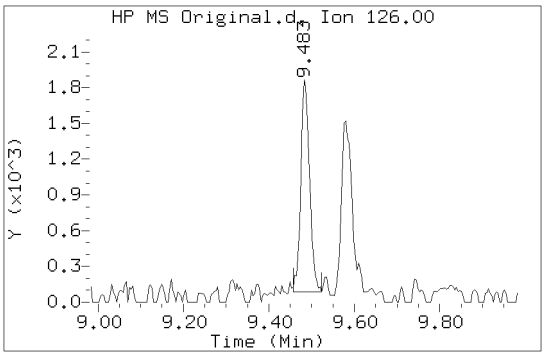
**BEFORE**

MASS
91
AREA
7551
HEIGHT
5138
08-Jun-2023
14:56
linh
pham




**BEFORE**

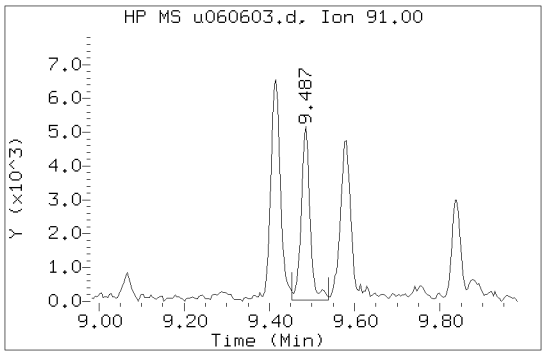
MASS
126
AREA
2589
HEIGHT
1779
08-Jun-2023
14:56
linh
pham




Reason Code:

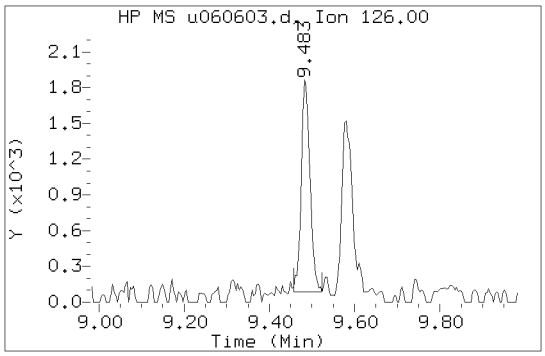
**AFTER**

MASS
91
AREA
7551
HEIGHT
5138
21-Jun-2023
13:47
linh
pha




**AFTER**

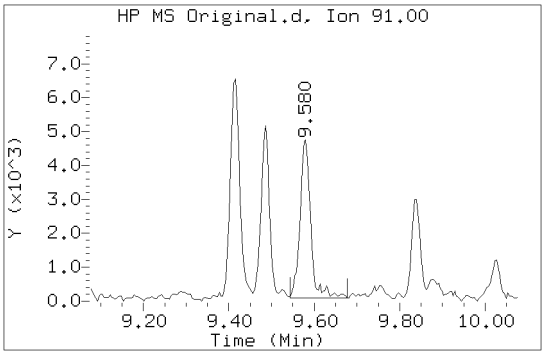
MASS
126
AREA
2589
HEIGHT
1779
21-Jun-2023
13:47
linh
pha




## 4-Chlorotoluene (106-43-4)

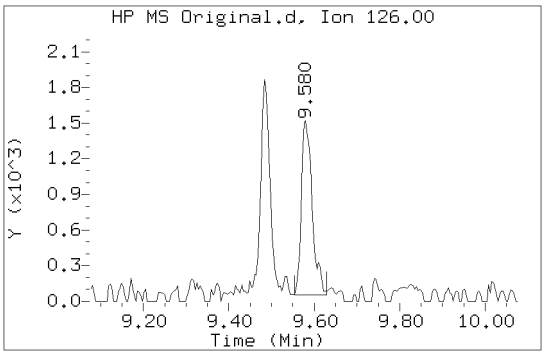
**BEFORE**

MASS
91
AREA
8243
HEIGHT
4662
08-Jun-2023
14:56
linh
pham




**BEFORE**

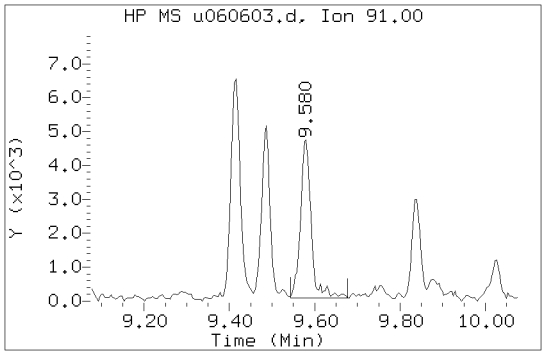
MASS
126
AREA
2606
HEIGHT
1467
08-Jun-2023
14:56
linh
pham




Reason Code:

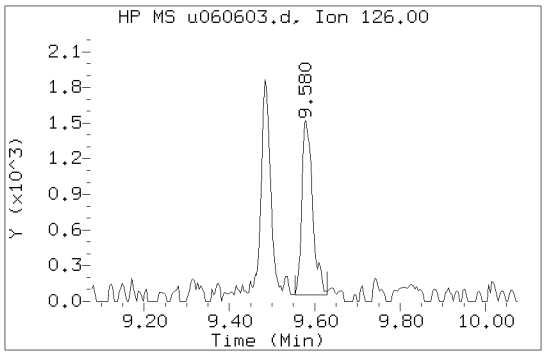
**AFTER**

MASS
91
AREA
8243
HEIGHT
4662
21-Jun-2023
13:47
linh
pha




**AFTER**

MASS
126
AREA
2606
HEIGHT
1467
21-Jun-2023
13:47
linh
pha



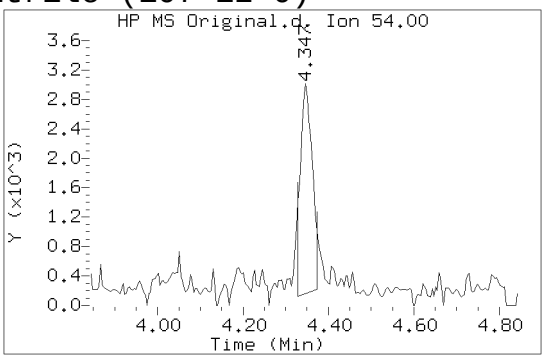
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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## Propionitrile (107-12-0)

Reason Code:

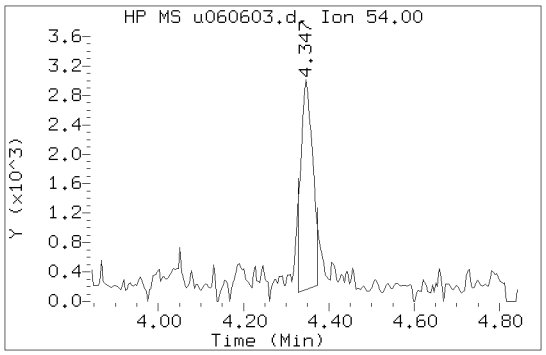
BEFORE

MASS
54
AREA
5579
HEIGHT
2848
08-Jun-2023
14:56
linh
pham



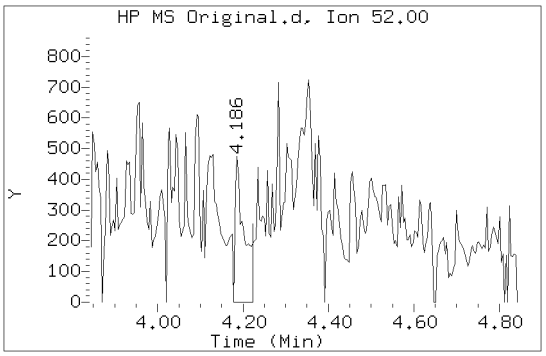

AFTER

MASS
54
AREA
5579
HEIGHT
2848
21-Jun-2023
13:47
linh
pha



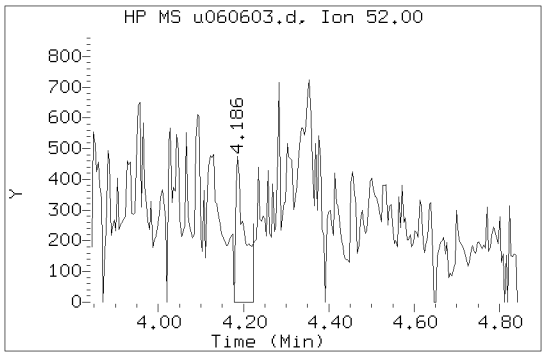

BEFORE

MASS
52
AREA
706
HEIGHT
475
08-Jun-2023
14:56
linh
pham



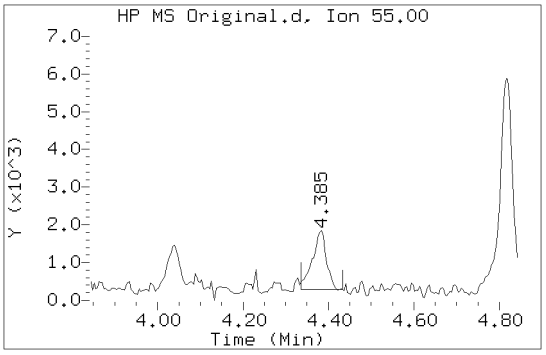

AFTER

MASS
52
AREA
706
HEIGHT
475
21-Jun-2023
13:47
linh
pha



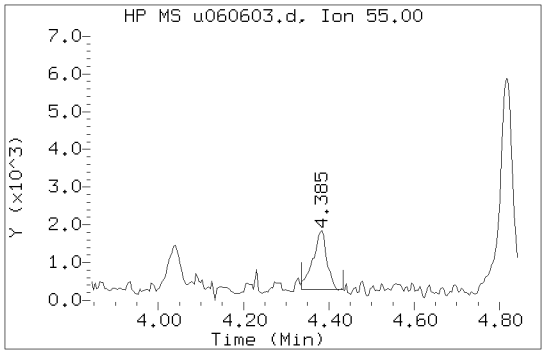

BEFORE

MASS
55
AREA
3548
HEIGHT
1559
08-Jun-2023
14:56
linh
pham




AFTER

MASS
55
AREA
3548
HEIGHT
1559
21-Jun-2023
13:47
linh
pha

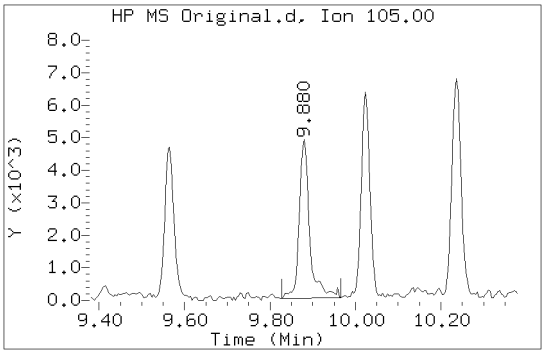



## 1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

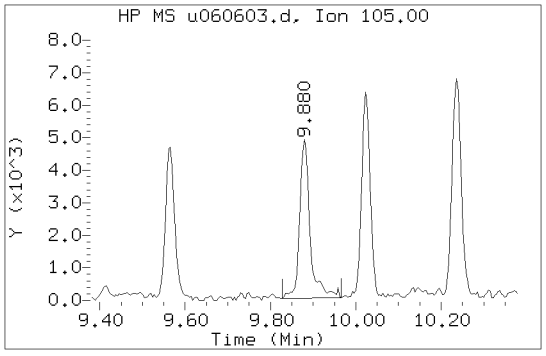
BEFORE

MASS
105
AREA
8548
HEIGHT
4875
08-Jun-2023
14:56
linh
pham




AFTER

MASS
105
AREA
8548
HEIGHT
4875
21-Jun-2023
13:47
linh
pha



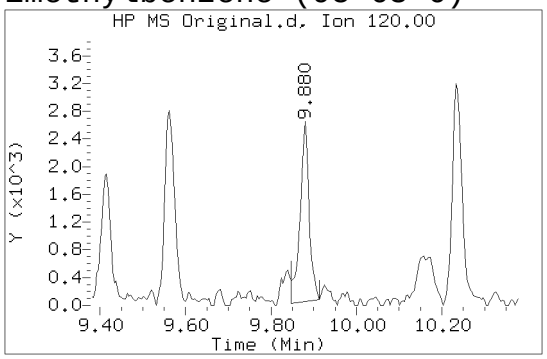
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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## 1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

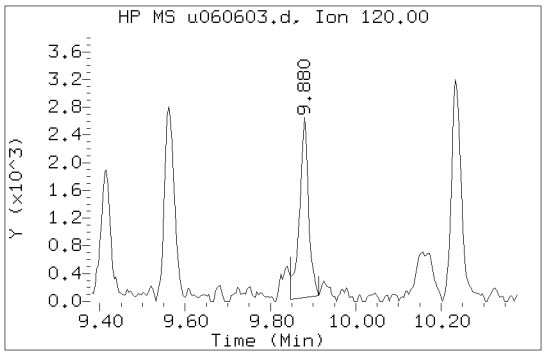
BEFORE

MASS
120
AREA
3975
HEIGHT
2592
08-Jun-2023
14:56
linh
pham




AFTER

MASS
120
AREA
3975
HEIGHT
2592
21-Jun-2023
13:47
linh
pha

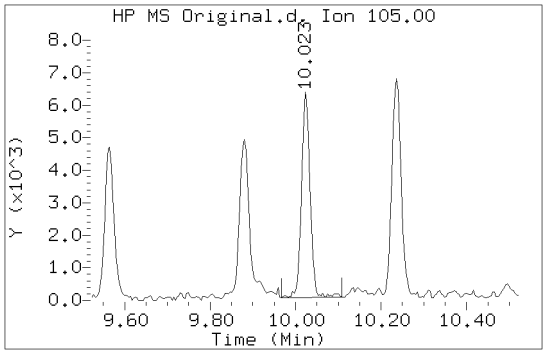



## sec-Butylbenzene (135-98-8)

Reason Code:

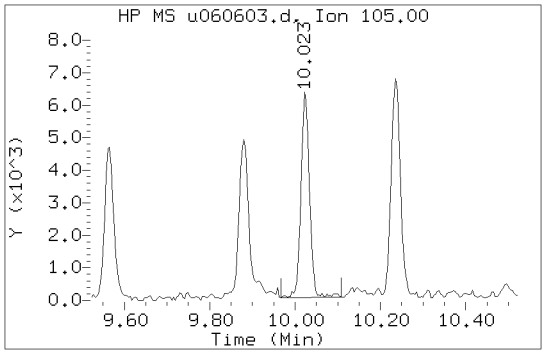
BEFORE

MASS
105
AREA
9131
HEIGHT
6310
08-Jun-2023
14:56
linh
pham



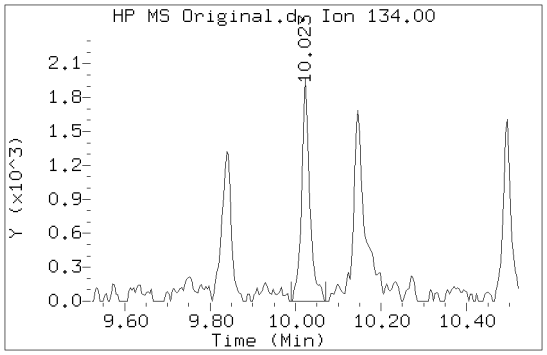

AFTER

MASS
105
AREA
9131
HEIGHT
6310
21-Jun-2023
13:47
linh
pha



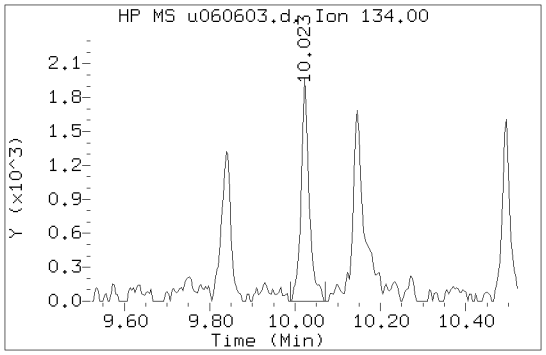

BEFORE

MASS
134
AREA
2687
HEIGHT
1965
08-Jun-2023
14:56
linh
pham




AFTER

MASS
134
AREA
2687
HEIGHT
1965
21-Jun-2023
13:47
linh
pha

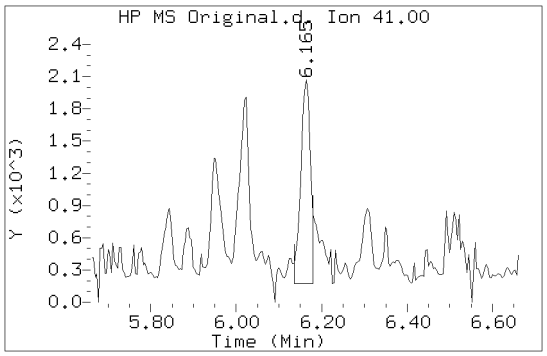



## Methyl Methacrylate (80-62-6)

Reason Code:

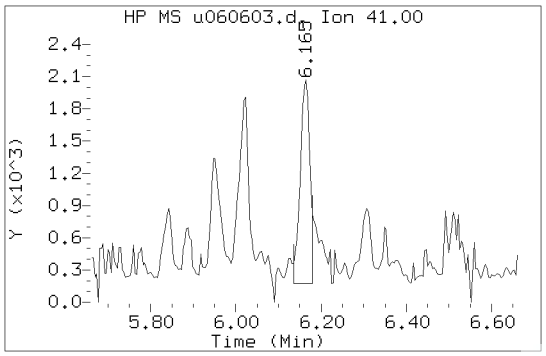
BEFORE

MASS
41
AREA
3083
HEIGHT
1894
08-Jun-2023
14:56
linh
pham




AFTER

MASS
41
AREA
3083
HEIGHT
1894
21-Jun-2023
13:47
linh
pha

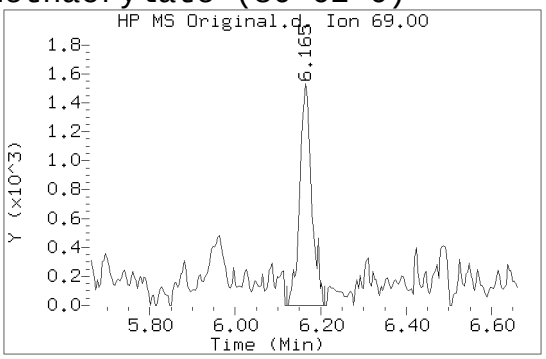


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## Methyl Methacrylate (80-62-6)

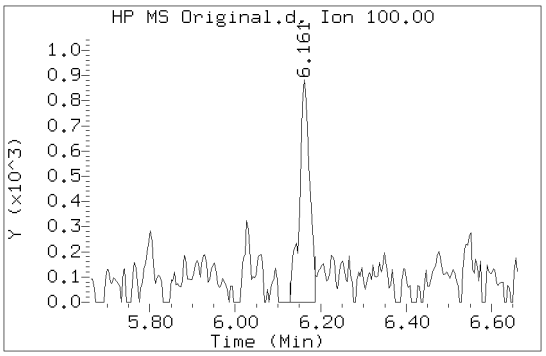
### BEFORE

MASS
69
AREA
3017
HEIGHT
1532
08-Jun-2023
14:56
linh
pham




### BEFORE

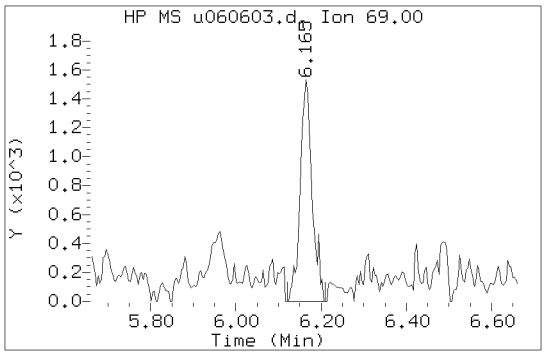
MASS
100
AREA
1506
HEIGHT
882
08-Jun-2023
14:56
linh
pham




### Reason Code:

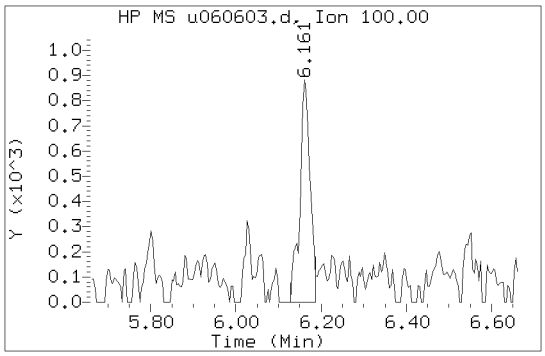
### AFTER

MASS
69
AREA
3017
HEIGHT
1532
21-Jun-2023
13:47
linh
pha




### AFTER

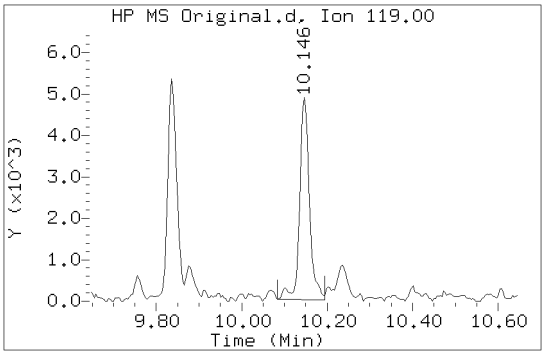
MASS
100
AREA
1506
HEIGHT
882
21-Jun-2023
13:47
linh
pha




## p-Isopropyltoluene (99-87-6)

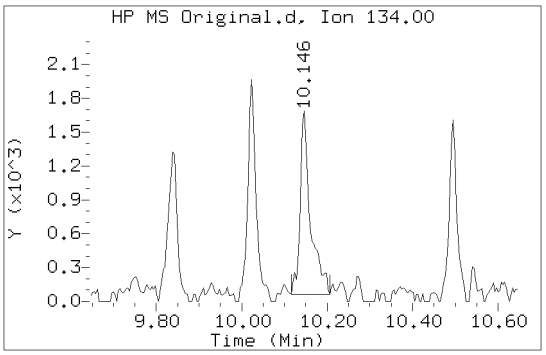
### BEFORE

MASS
119
AREA
7969
HEIGHT
4880
08-Jun-2023
14:56
linh
pham




### BEFORE

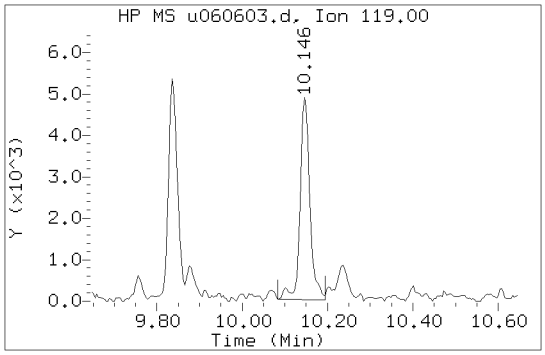
MASS
134
AREA
2795
HEIGHT
1627
08-Jun-2023
14:56
linh
pham




### Reason Code:

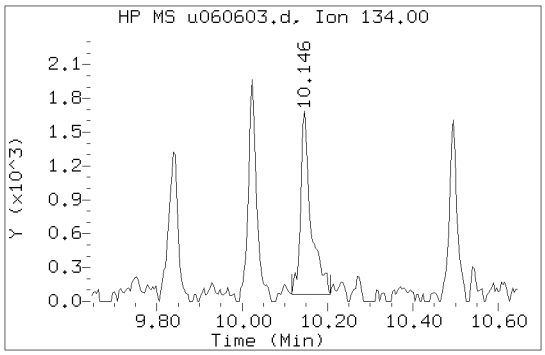
### AFTER

MASS
119
AREA
7969
HEIGHT
4880
21-Jun-2023
13:47
linh
pha




### AFTER

MASS
134
AREA
2795
HEIGHT
1627
21-Jun-2023
13:47
linh
pha



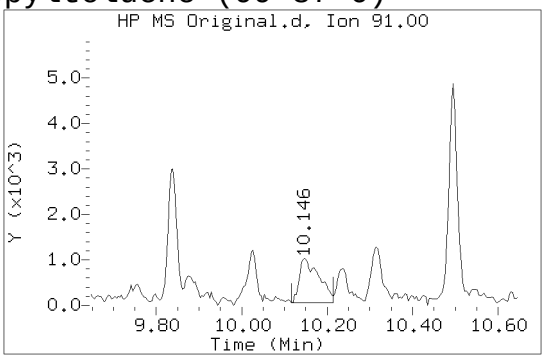
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InstruID : VOA9.i
LabSampID : VSTD000.5

## p-Isopropyltoluene (99-87-6)

Reason Code:

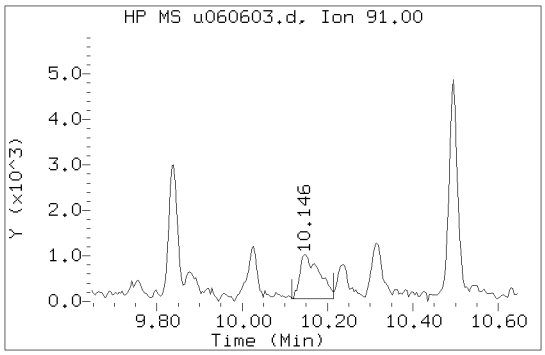
BEFORE

MASS
91
AREA
3125
HEIGHT
970
08-Jun-2023
14:56
linh
pham




AFTER

MASS
91
AREA
3125
HEIGHT
970
21-Jun-2023
13:47
linh
pha

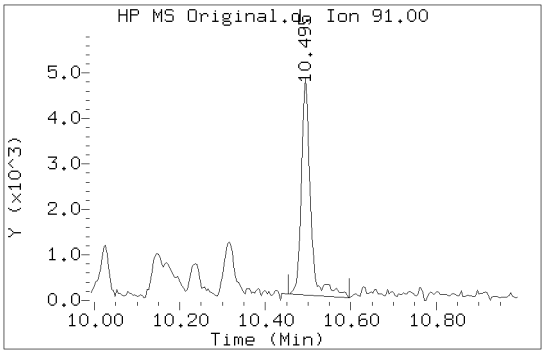



## n-Butylbenzene (104-51-8)

Reason Code:

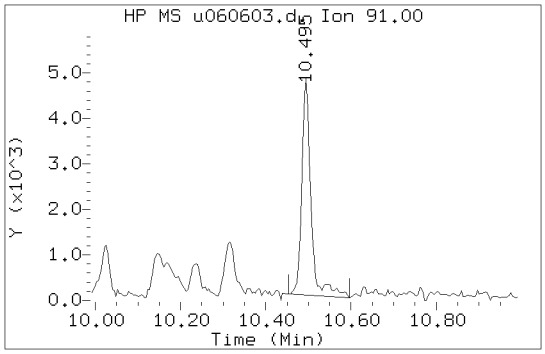
BEFORE

MASS
91
AREA
7213
HEIGHT
4758
08-Jun-2023
14:56
linh
pham



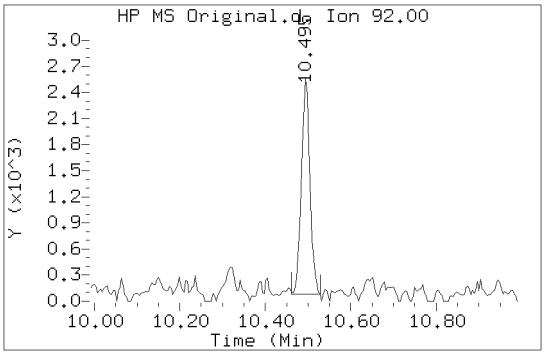

AFTER

MASS
91
AREA
7213
HEIGHT
4758
21-Jun-2023
13:47
linh
pha



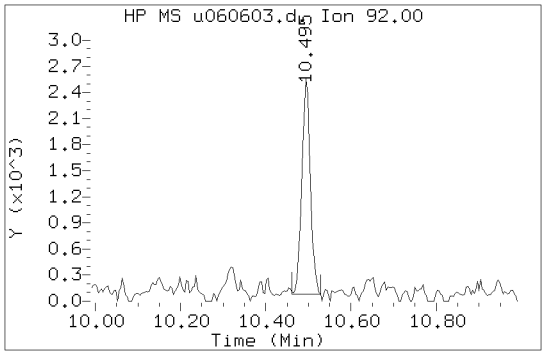

BEFORE

MASS
92
AREA
3472
HEIGHT
2472
08-Jun-2023
14:56
linh
pham



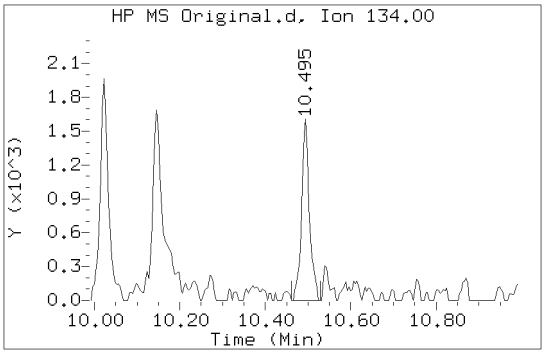

AFTER

MASS
92
AREA
3472
HEIGHT
2472
21-Jun-2023
13:47
linh
pha



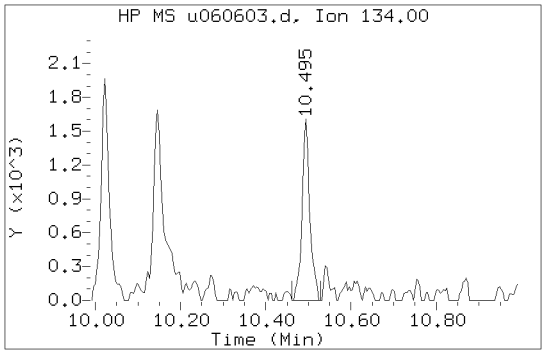

BEFORE

MASS
134
AREA
2070
HEIGHT
1610
08-Jun-2023
14:56
linh
pham




AFTER

MASS
134
AREA
2070
HEIGHT
1610
21-Jun-2023
13:47
linh
pha

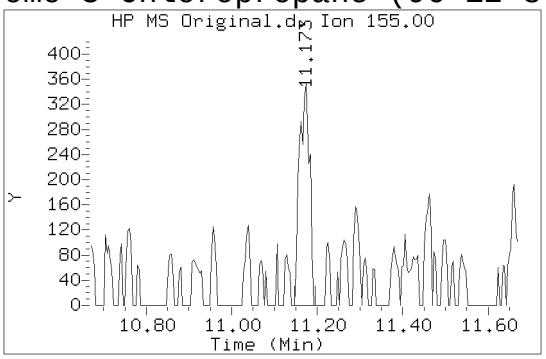


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InstruID : VOA9.i
LabSampID : VSTD000.5

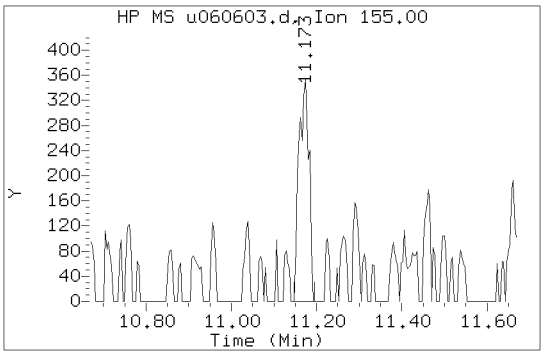
## 1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

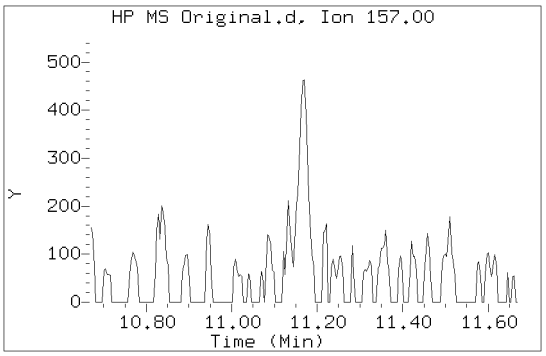
BEFORE
MASS
155
AREA
589
HEIGHT
353
08-Jun-2023
14:56
linh
pham



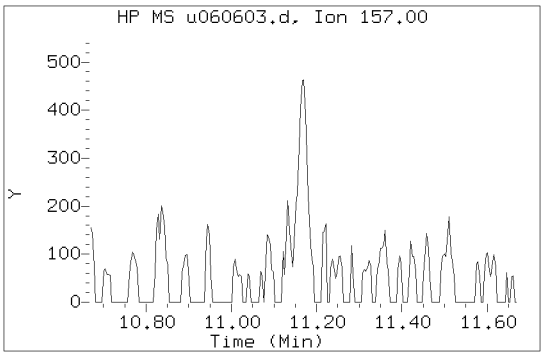

AFTER
MASS
155
AREA
589
HEIGHT
353
21-Jun-2023
13:47
linh
pha



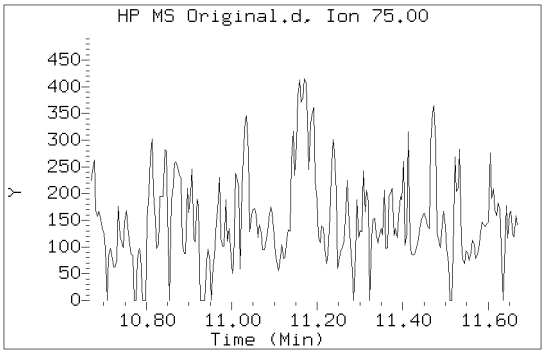

BEFORE
MASS
157
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



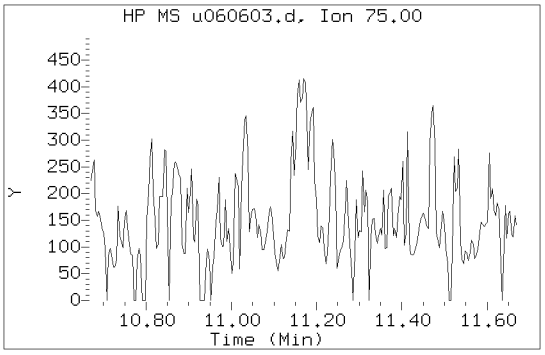

AFTER
MASS
157
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
75
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



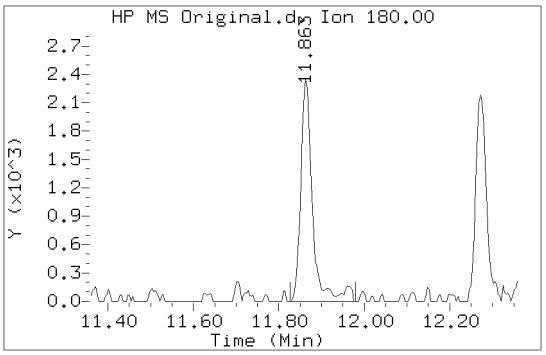

AFTER
MASS
75
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



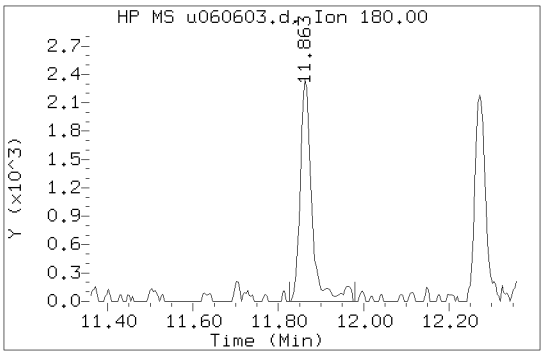

## 1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

BEFORE
MASS
180
AREA
4551
HEIGHT
2344
08-Jun-2023
14:56
linh
pham




AFTER
MASS
180
AREA
4551
HEIGHT
2344
21-Jun-2023
13:47
linh
pha



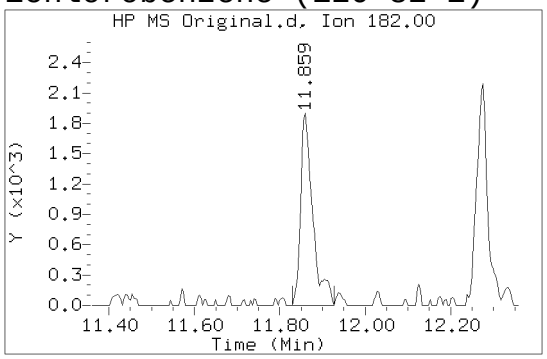
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## 1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

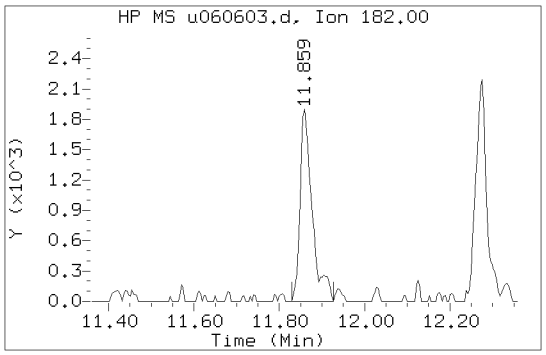
BEFORE

MASS
182
AREA
3811
HEIGHT
1898
08-Jun-2023
14:56
linh
pham



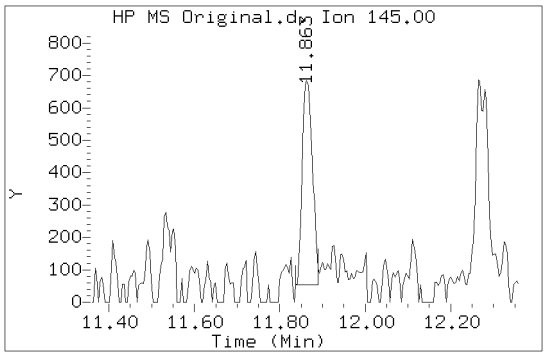

AFTER

MASS
182
AREA
3811
HEIGHT
1898
21-Jun-2023
13:47
linh
pha



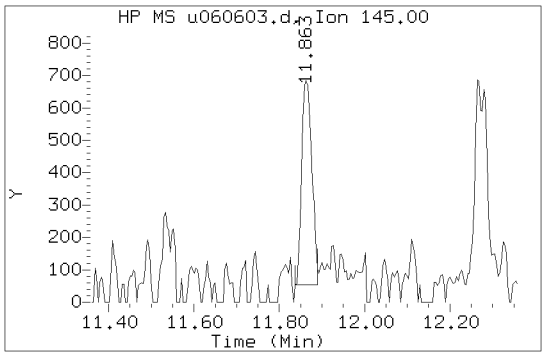

BEFORE

MASS
145
AREA
1065
HEIGHT
632
08-Jun-2023
14:56
linh
pham




AFTER

MASS
145
AREA
1065
HEIGHT
632
21-Jun-2023
13:47
linh
pha

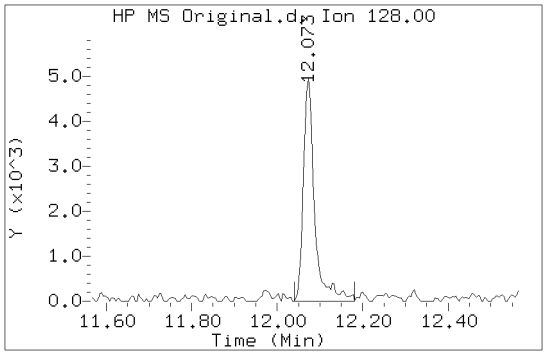



## Naphthalene (91-20-3)

Reason Code:

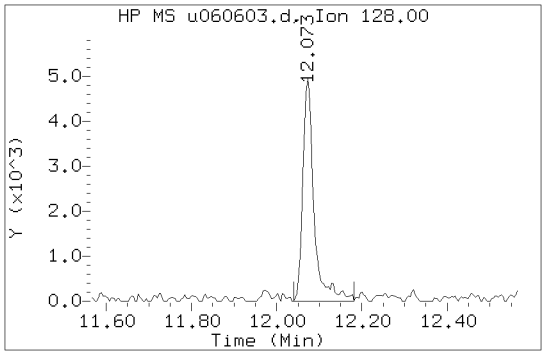
BEFORE

MASS
128
AREA
9156
HEIGHT
4939
08-Jun-2023
14:56
linh
pham




AFTER

MASS
128
AREA
9156
HEIGHT
4939
21-Jun-2023
13:47
linh
pha

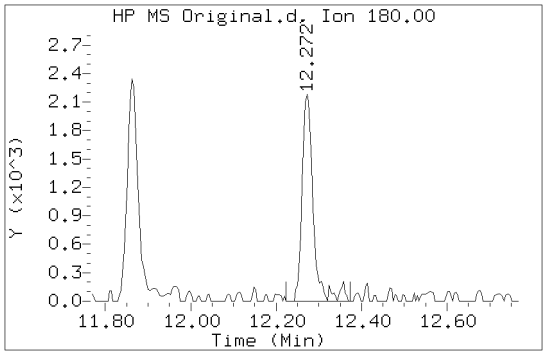



## 1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

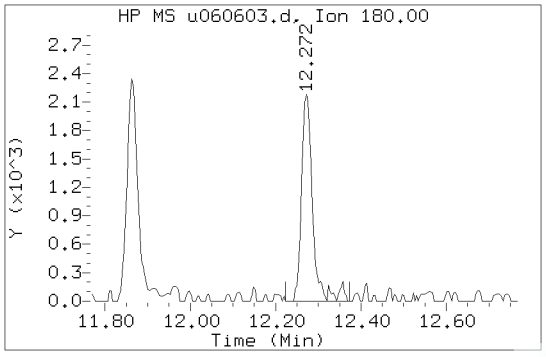
BEFORE

MASS
180
AREA
4090
HEIGHT
2185
08-Jun-2023
14:56
linh
pham




AFTER

MASS
180
AREA
4090
HEIGHT
2185
21-Jun-2023
13:47
linh
pha



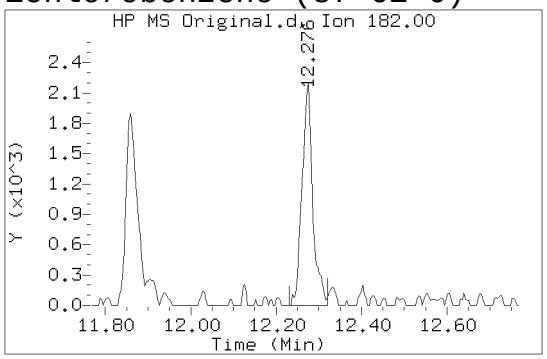
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## 1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

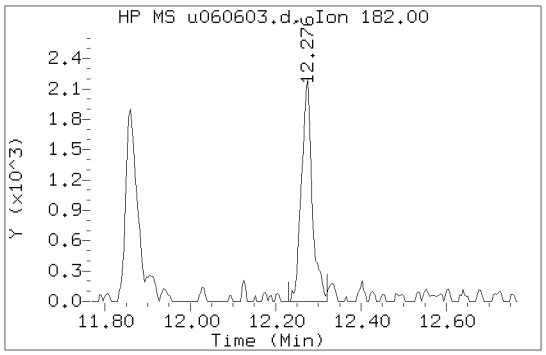
**BEFORE**

MASS
182
AREA
3923
HEIGHT
2191
08-Jun-2023
14:56
linh
pham



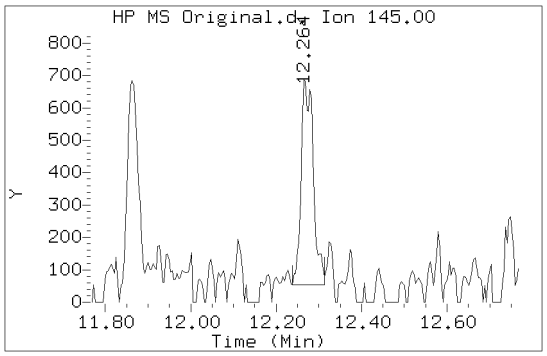

**AFTER**

MASS
182
AREA
3923
HEIGHT
2191
21-Jun-2023
13:47
linh
pha



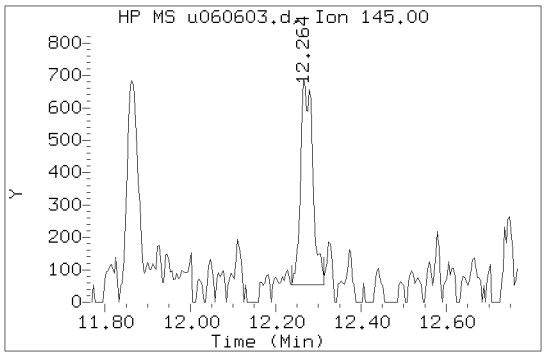

**BEFORE**

MASS
145
AREA
1275
HEIGHT
633
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
145
AREA
1275
HEIGHT
633
21-Jun-2023
13:47
linh
pha

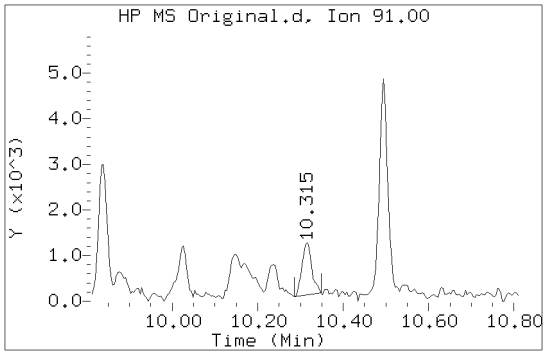



## Benzyl Chloride (100-44-7)

Reason Code:

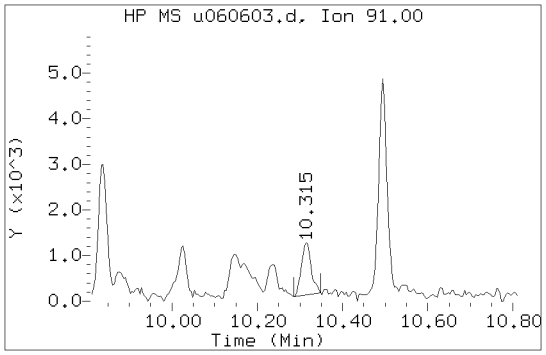
**BEFORE**

MASS
91
AREA
1867
HEIGHT
1136
08-Jun-2023
14:56
linh
pham



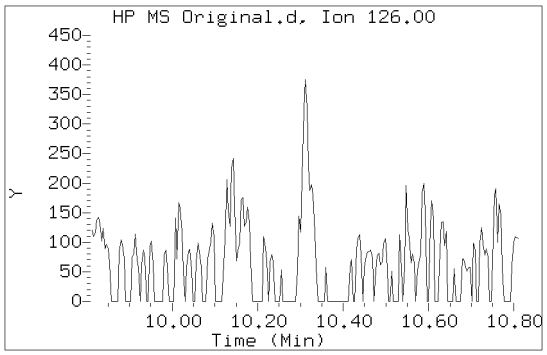

**AFTER**

MASS
91
AREA
1867
HEIGHT
1136
21-Jun-2023
13:47
linh
pha



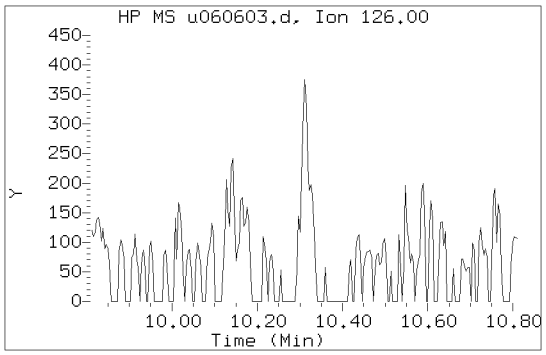

**BEFORE**

MASS
126
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
126
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



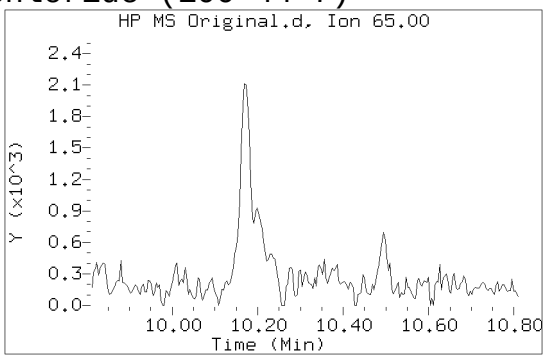
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## Benzyl Chloride (100-44-7)

Reason Code:

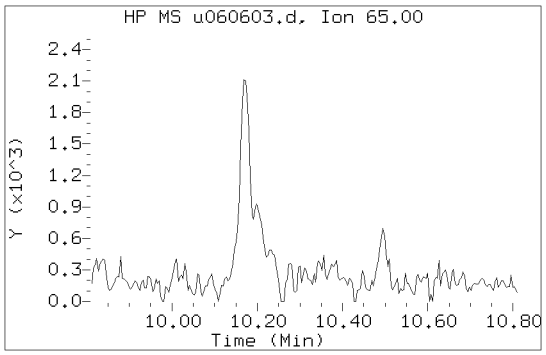
**BEFORE**

MASS
65
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
65
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

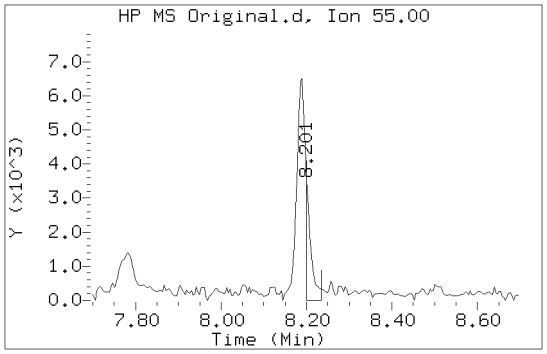



## 1-Chlorohexane (544-10-5)

Reason Code:

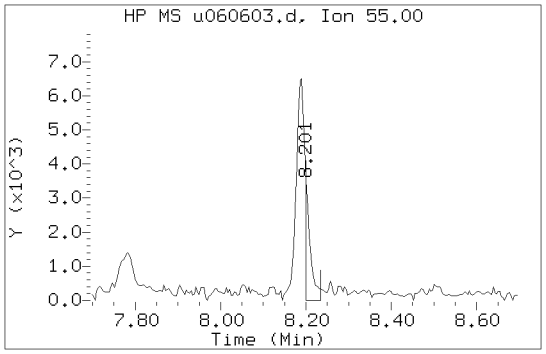
**BEFORE**

MASS
55
AREA
2785
HEIGHT
3524
08-Jun-2023
14:56
linh
pham



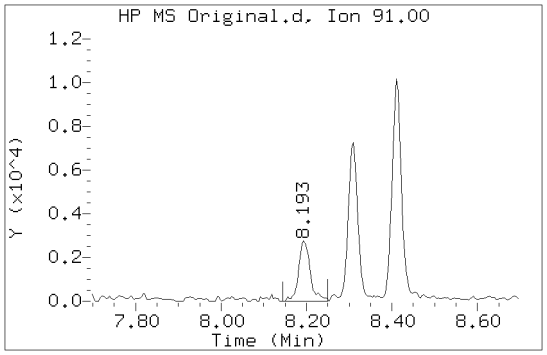

**AFTER**

MASS
55
AREA
2785
HEIGHT
3524
21-Jun-2023
13:47
linh
pha



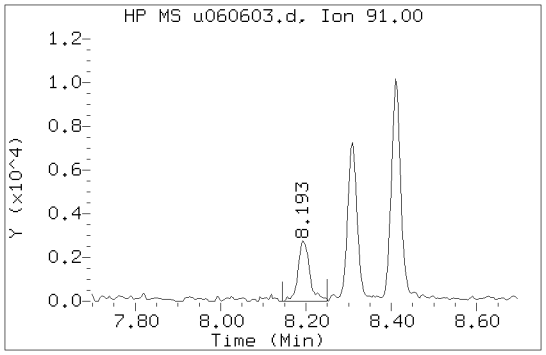

**BEFORE**

MASS
91
AREA
5394
HEIGHT
2762
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
91
AREA
5394
HEIGHT
2762
21-Jun-2023
13:47
linh
pha

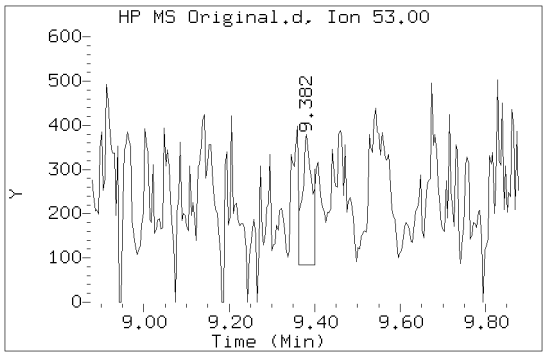



## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

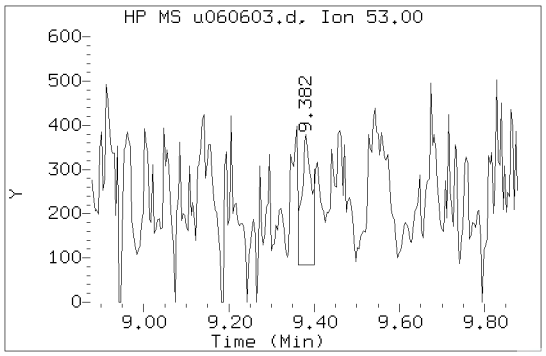
**BEFORE**

MASS
53
AREA
485
HEIGHT
296
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
53
AREA
485
HEIGHT
296
21-Jun-2023
13:47
linh
pha



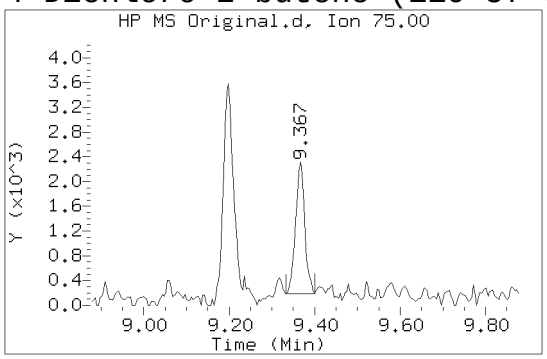
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

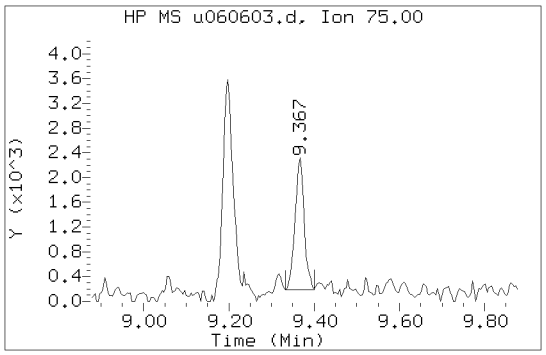
BEFORE

MASS
75
AREA
3241
HEIGHT
2140
08-Jun-2023
14:56
linh
pham




AFTER

MASS
75
AREA
3241
HEIGHT
2140
21-Jun-2023
13:47
linh
pha

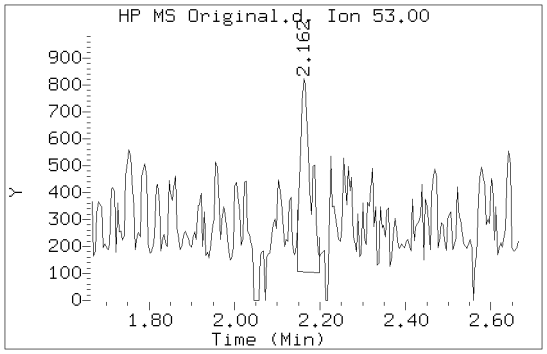



## Chloroprene (126-99-8)

Reason Code:

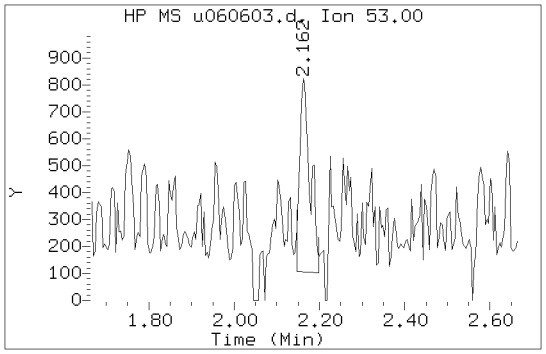
BEFORE

MASS
53
AREA
1260
HEIGHT
717
08-Jun-2023
14:56
linh
pham



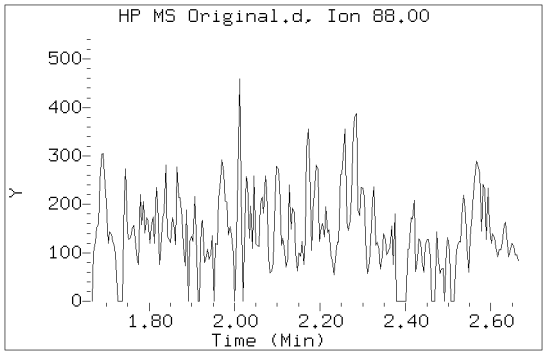

AFTER

MASS
53
AREA
1260
HEIGHT
717
21-Jun-2023
13:47
linh
pha



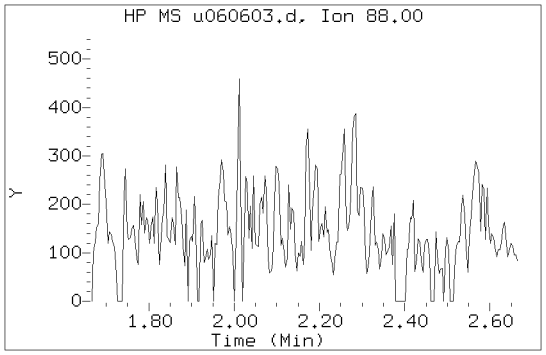

BEFORE

MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




AFTER

MASS
88
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

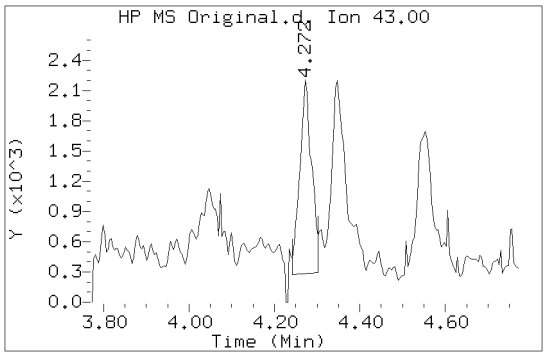



## Ethyl Acetate (141-78-6)

Reason Code:

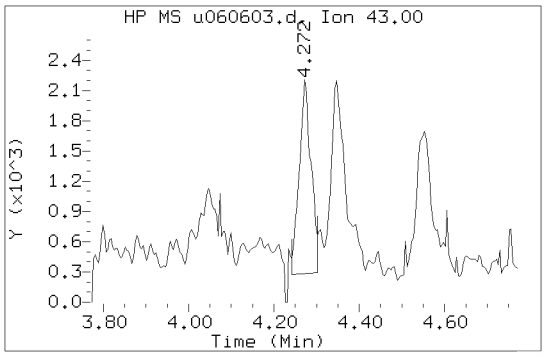
BEFORE

MASS
43
AREA
3781
HEIGHT
1922
08-Jun-2023
14:56
linh
pham




AFTER

MASS
43
AREA
3781
HEIGHT
1922
21-Jun-2023
13:47
linh
pha



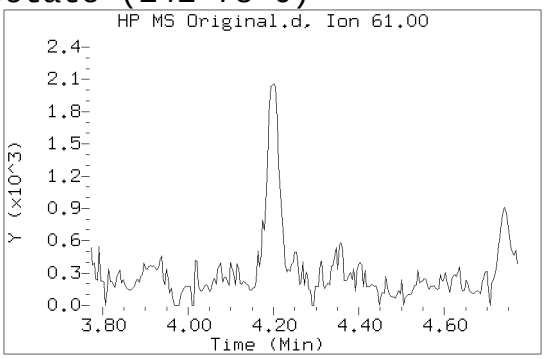
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## Ethyl Acetate (141-78-6)

Reason Code:

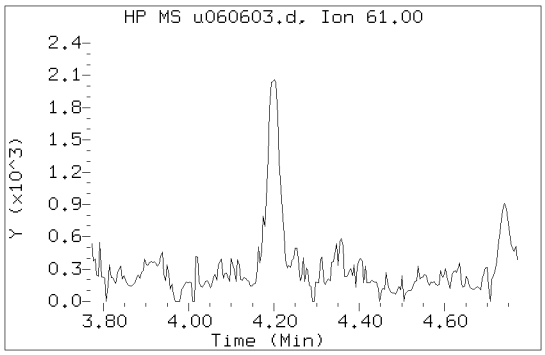
**BEFORE**

MASS
61
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



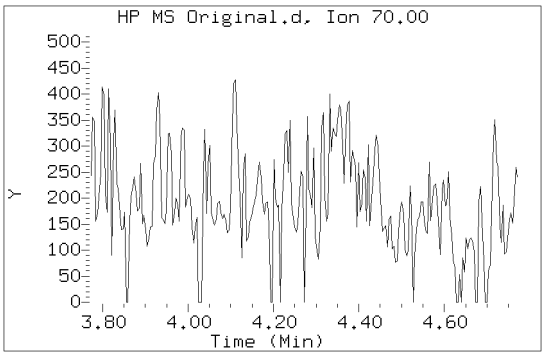

**AFTER**

MASS
61
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



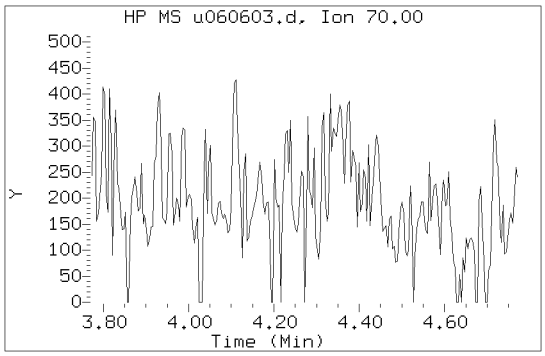

**BEFORE**

MASS
70
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
70
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

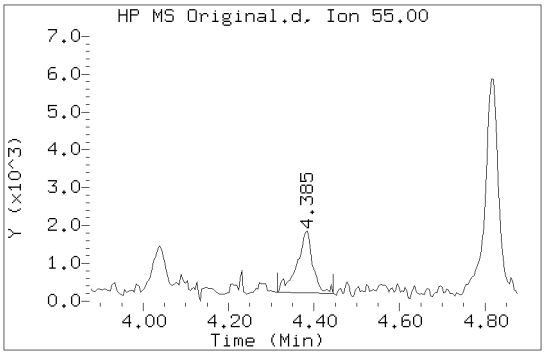



## Methyl Acrylate (96-33-3)

Reason Code:

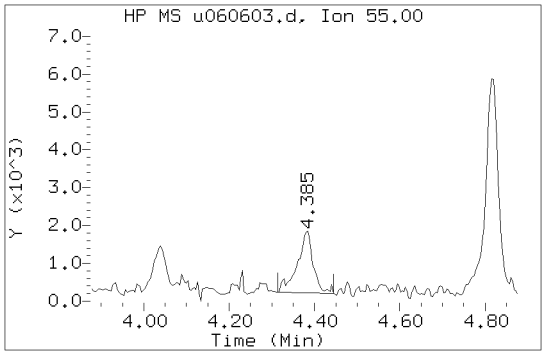
**BEFORE**

MASS
55
AREA
4302
HEIGHT
1632
08-Jun-2023
14:56
linh
pham



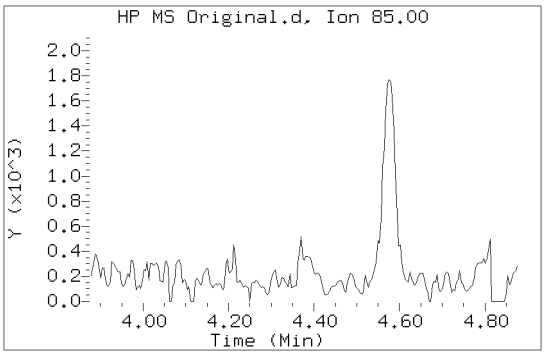

**AFTER**

MASS
55
AREA
4302
HEIGHT
1632
21-Jun-2023
13:47
linh
pha



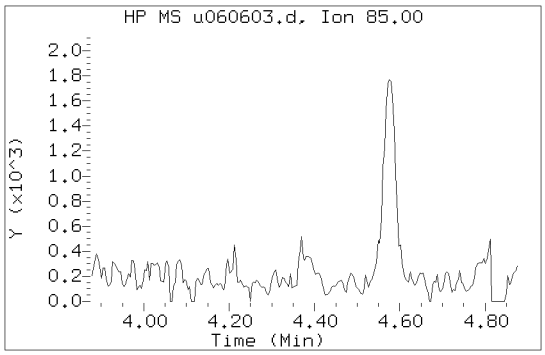

**BEFORE**

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

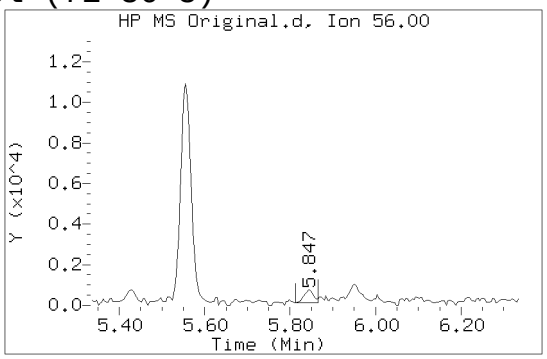


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

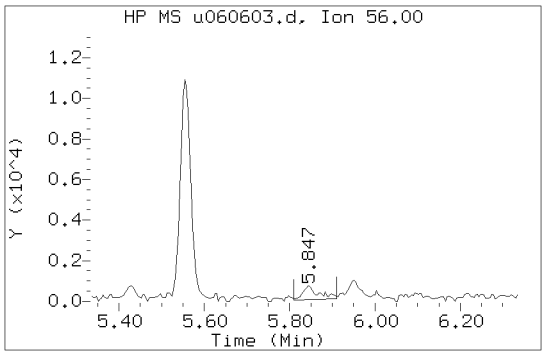
## n-Butanol (71-36-3)

Reason Code:

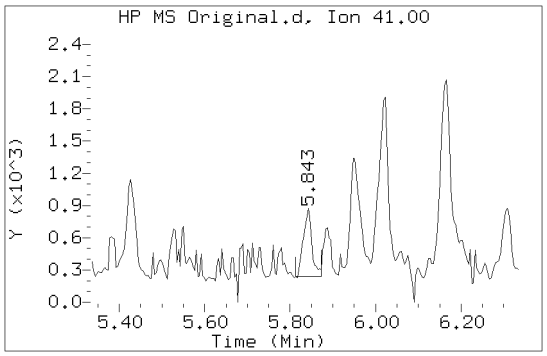
BEFORE
MASS
56
AREA
1032
HEIGHT
628
08-Jun-2023
14:56
linh
pham



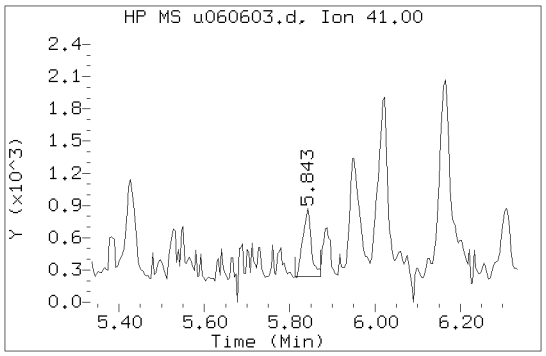

AFTER
MASS
56
AREA
1746
HEIGHT
662
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
41
AREA
903
HEIGHT
633
08-Jun-2023
14:56
linh
pham



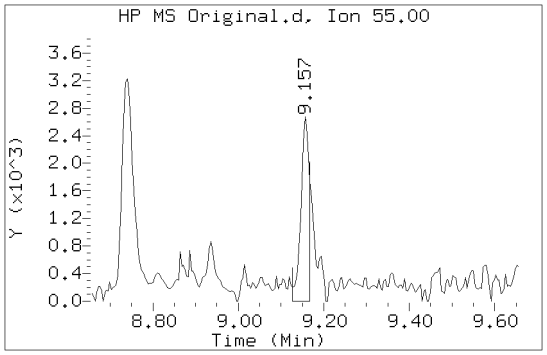

AFTER
MASS
41
AREA
903
HEIGHT
633
21-Jun-2023
13:47
linh
pha



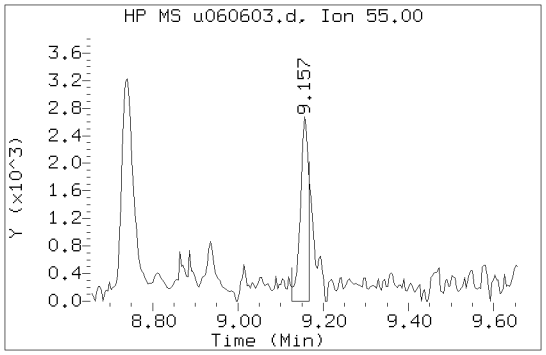

## Cyclohexanone (108-94-1)

Reason Code:

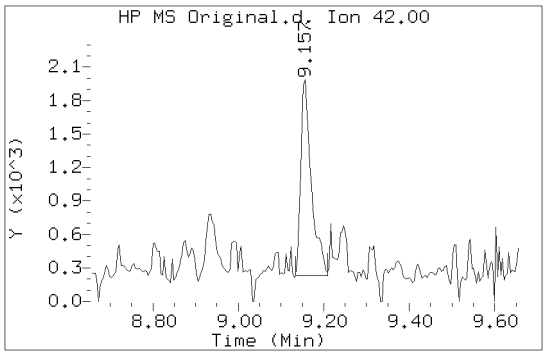
BEFORE
MASS
55
AREA
3642
HEIGHT
2680
08-Jun-2023
14:56
linh
pham



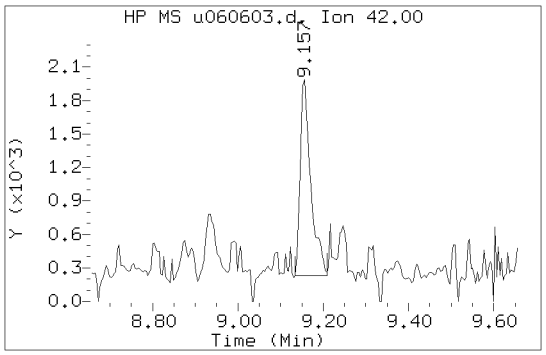

AFTER
MASS
55
AREA
3642
HEIGHT
2680
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
42
AREA
3088
HEIGHT
1757
08-Jun-2023
14:56
linh
pham




AFTER
MASS
42
AREA
3088
HEIGHT
1757
21-Jun-2023
13:47
linh
pha



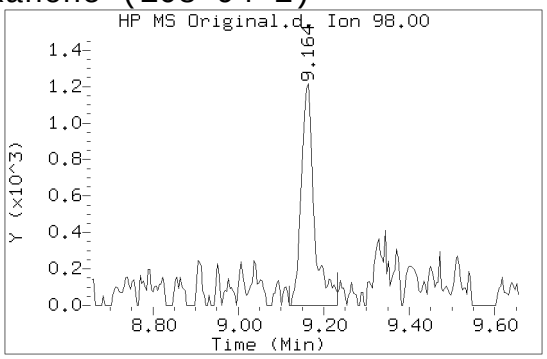
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## Cyclohexanone (108-94-1)

Reason Code:

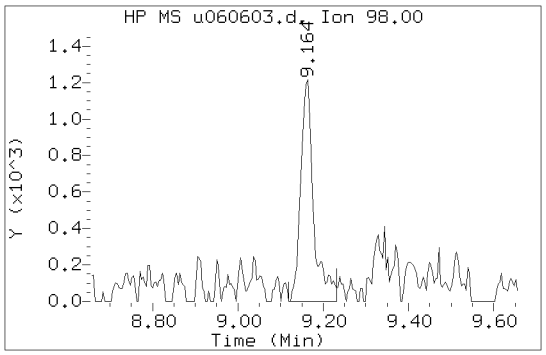
**BEFORE**

MASS
98
AREA
2606
HEIGHT
1216
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
98
AREA
2606
HEIGHT
1216
21-Jun-2023
13:47
linh
pha

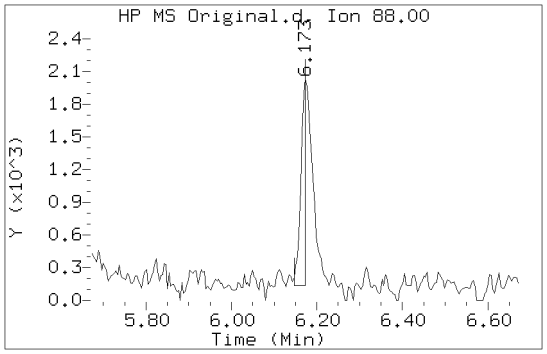



## 1,4-Dioxane ()

Reason Code:

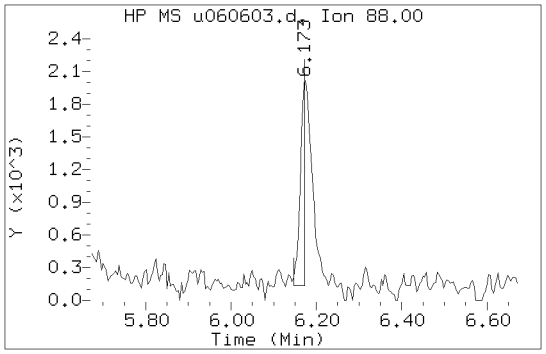
**BEFORE**

MASS
88
AREA
1567
HEIGHT
1901
08-Jun-2023
14:56
linh
pham



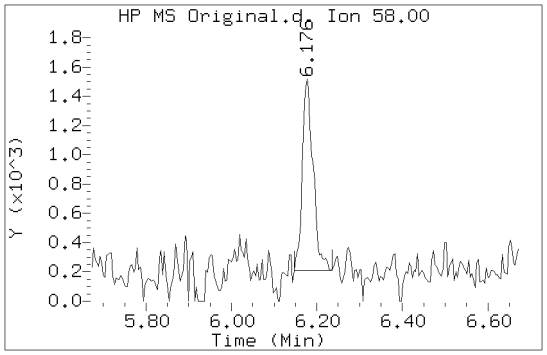

**AFTER**

MASS
88
AREA
1567
HEIGHT
1901
21-Jun-2023
13:47
linh
pha



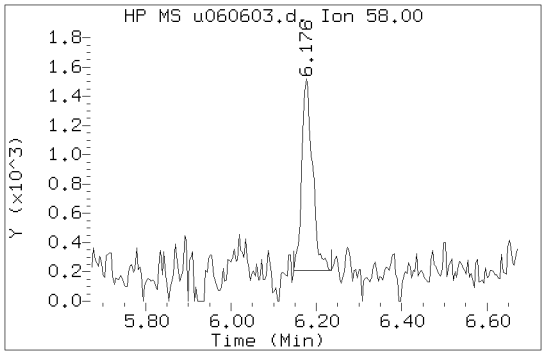

**BEFORE**

MASS
58
AREA
2344
HEIGHT
1308
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
58
AREA
2344
HEIGHT
1308
21-Jun-2023
13:47
linh
pha

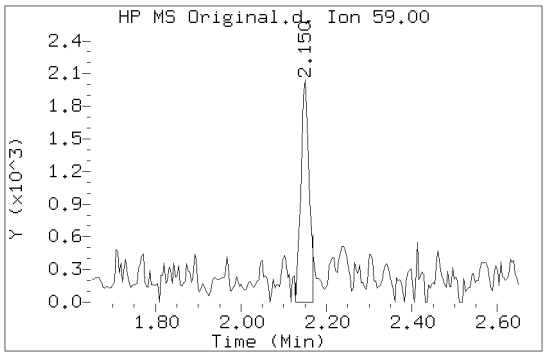



## Diethyl ether (60-29-7)

Reason Code:

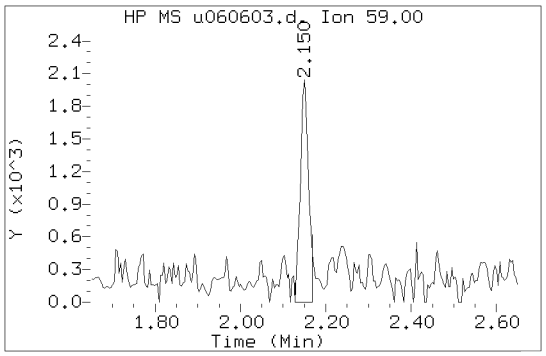
**BEFORE**

MASS
59
AREA
2812
HEIGHT
2042
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
59
AREA
2812
HEIGHT
2042
21-Jun-2023
13:47
linh
pha



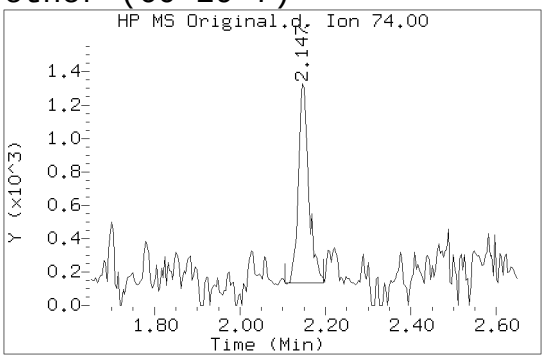
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## Diethyl ether (60-29-7)

Reason Code:

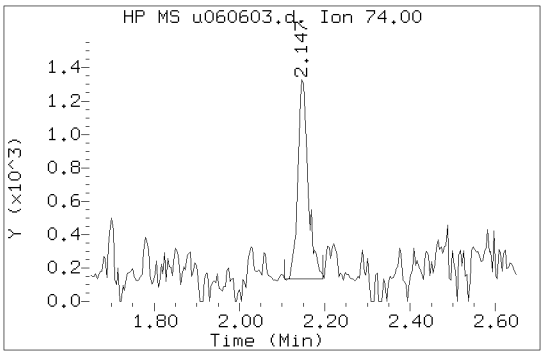
**BEFORE**

MASS
74
AREA
2051
HEIGHT
1194
08-Jun-2023
14:56
linh
pham



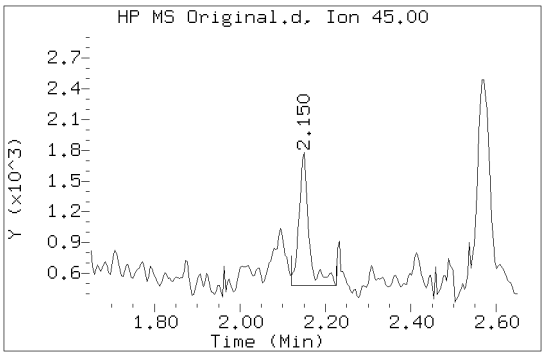

**AFTER**

MASS
74
AREA
2051
HEIGHT
1194
21-Jun-2023
13:47
linh
pha



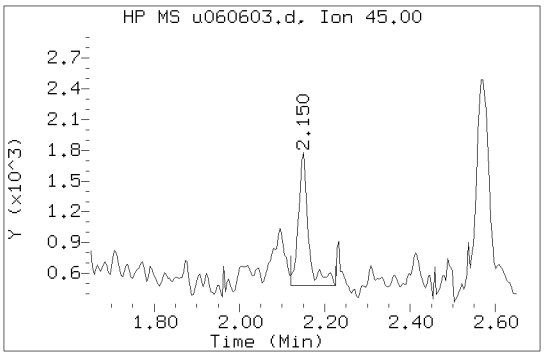

**BEFORE**

MASS
45
AREA
2149
HEIGHT
1297
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
45
AREA
2149
HEIGHT
1297
21-Jun-2023
13:47
linh
pha

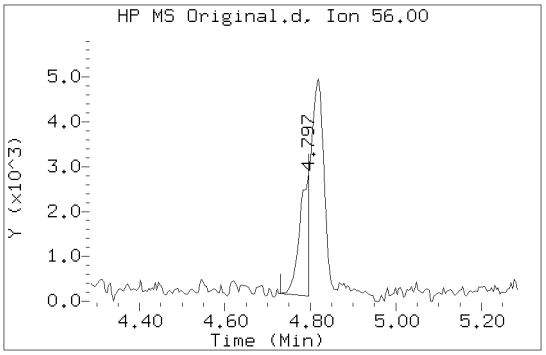



## Cyclohexane (110-82-7)

Reason Code:

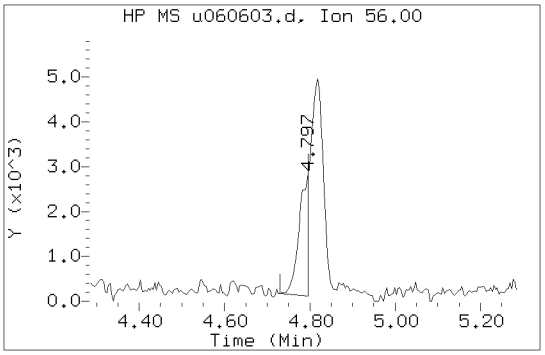
**BEFORE**

MASS
56
AREA
4345
HEIGHT
2735
08-Jun-2023
14:56
linh
pham



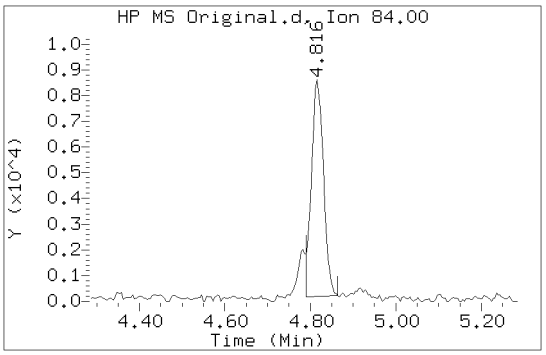

**AFTER**

MASS
56
AREA
4345
HEIGHT
2735
21-Jun-2023
13:47
linh
pha



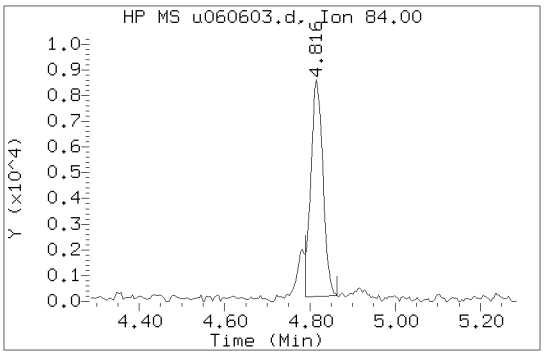

**BEFORE**

MASS
84
AREA
16696
HEIGHT
8414
08-Jun-2023
14:56
linh
pham



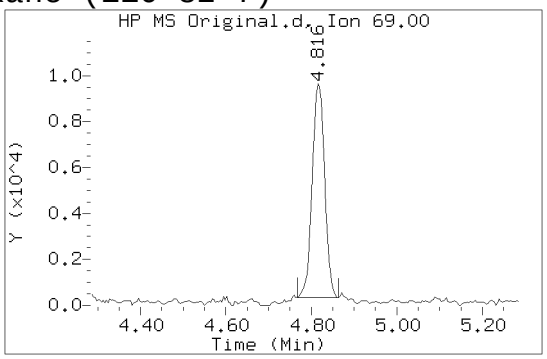

**AFTER**

MASS
84
AREA
16696
HEIGHT
8414
21-Jun-2023
13:47
linh
pha



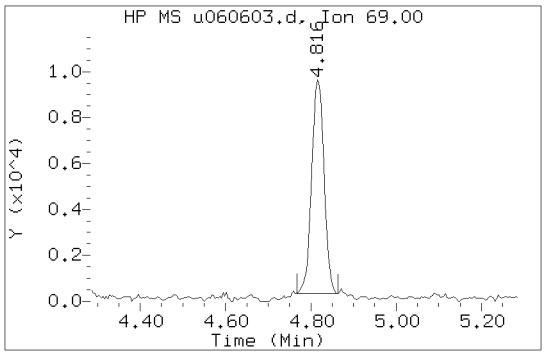
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## Cyclohexane (110-82-7)



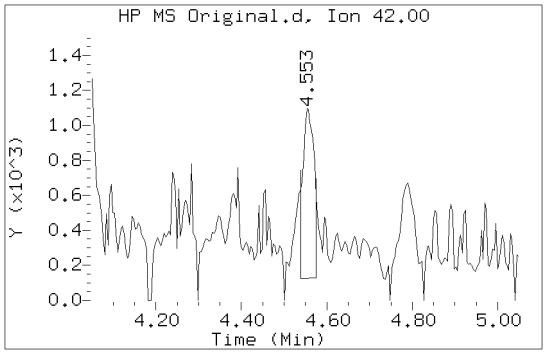

BEFORE
MASS
69
AREA
18963
HEIGHT
9317
08-Jun-2023
14:56
linh
pham

Reason Code:



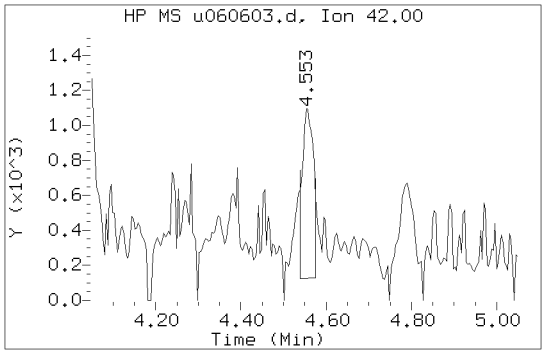

AFTER
MASS
69
AREA
18963
HEIGHT
9317
21-Jun-2023
13:47
linh
pha

## Tetrahydrofuran (109-99-9)

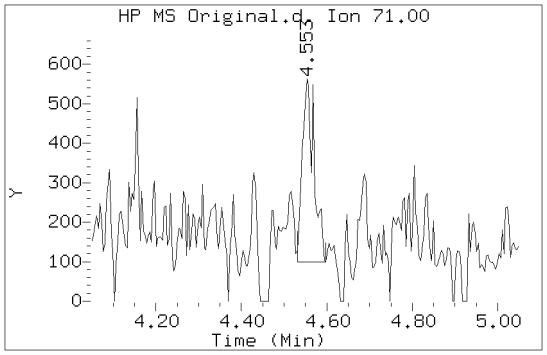



BEFORE
MASS
42
AREA
1846
HEIGHT
970
08-Jun-2023
14:56
linh
pham

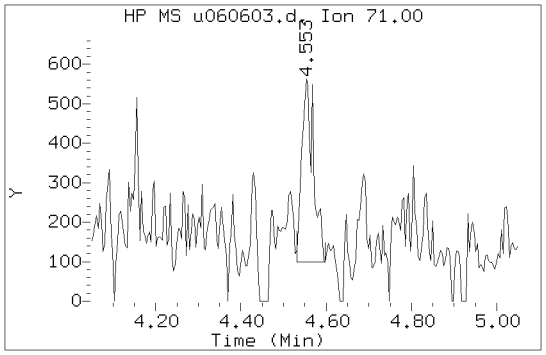
Reason Code:




AFTER
MASS
42
AREA
1846
HEIGHT
970
21-Jun-2023
13:47
linh
pha

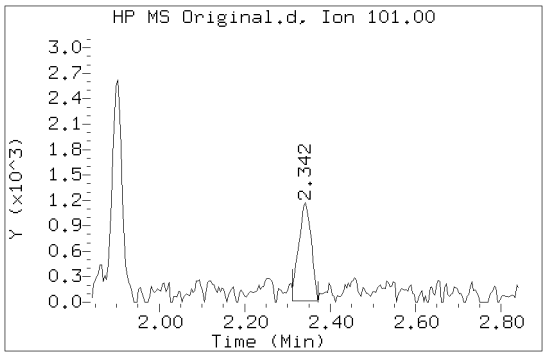



BEFORE
MASS
71
AREA
900
HEIGHT
464
08-Jun-2023
14:56
linh
pham



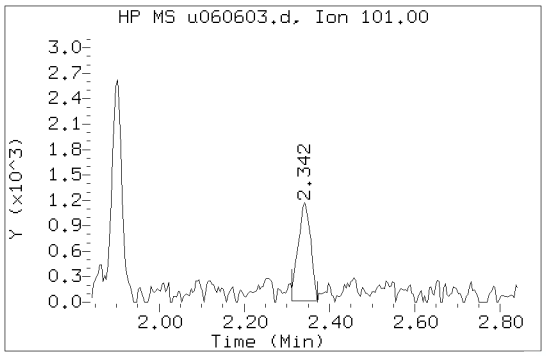

AFTER
MASS
71
AREA
900
HEIGHT
464
21-Jun-2023
13:47
linh
pha

## Freon TF (76-13-1)




BEFORE
MASS
101
AREA
2391
HEIGHT
1159
08-Jun-2023
14:56
linh
pham

Reason Code:




AFTER
MASS
101
AREA
2391
HEIGHT
1159
21-Jun-2023
13:47
linh
pha

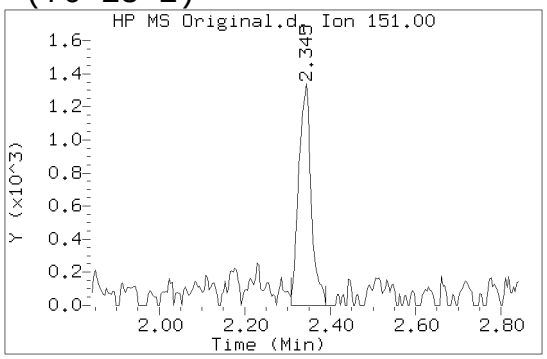
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## Freon TF (76-13-1)

Reason Code:

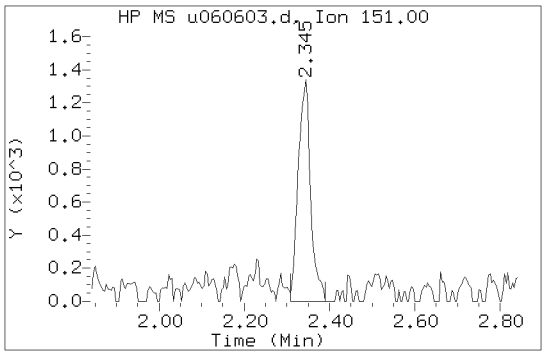
**BEFORE**

MASS
151
AREA
2754
HEIGHT
1340
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
151
AREA
2754
HEIGHT
1340
21-Jun-2023
13:47
linh
pha

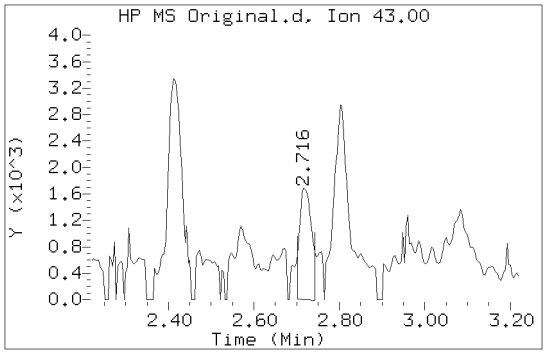



## Methyl Acetate (79-20-9)

Reason Code:

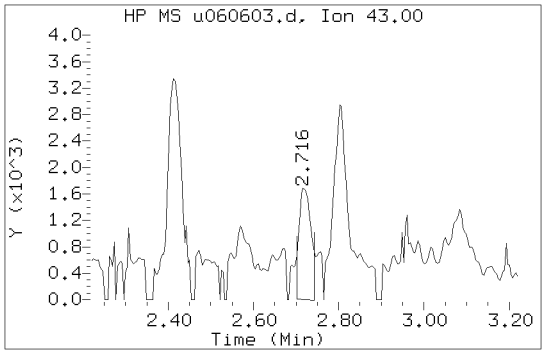
**BEFORE**

MASS
43
AREA
3375
HEIGHT
1684
08-Jun-2023
14:56
linh
pham



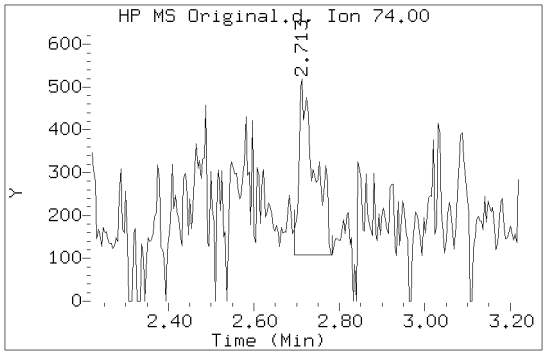

**AFTER**

MASS
43
AREA
3375
HEIGHT
1684
21-Jun-2023
13:47
linh
pha



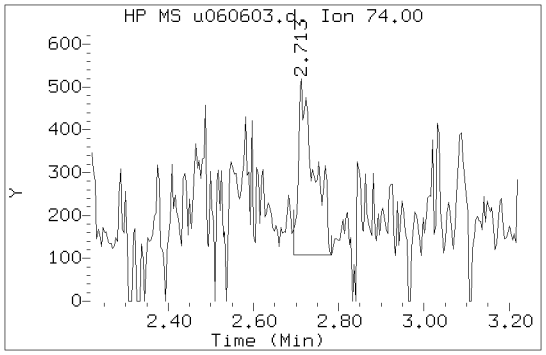

**BEFORE**

MASS
74
AREA
1069
HEIGHT
411
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
74
AREA
1069
HEIGHT
411
21-Jun-2023
13:47
linh
pha

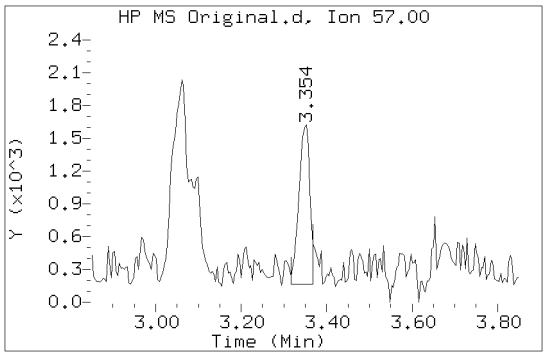



## Allyl alcohol (107-18-6)

Reason Code:

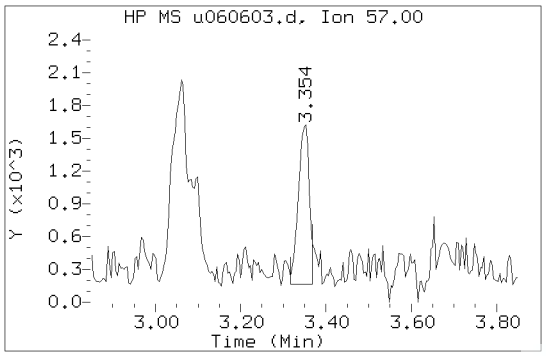
**BEFORE**

MASS
57
AREA
2691
HEIGHT
1461
08-Jun-2023
14:56
linh
pham




**AFTER**

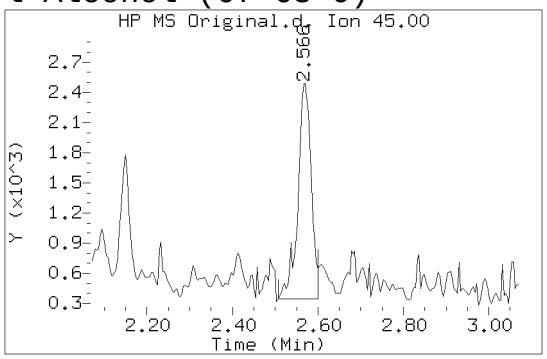
MASS
57
AREA
2691
HEIGHT
1461
21-Jun-2023
13:47
linh
pha



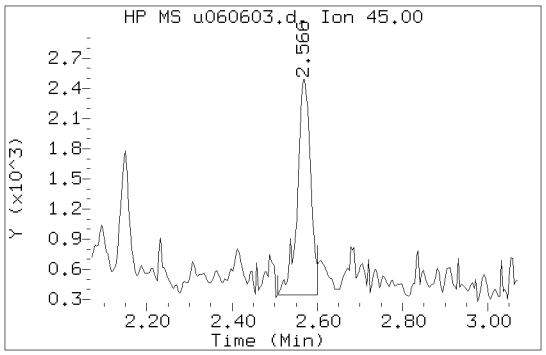
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## Isopropyl Alcohol (67-63-0)

**BEFORE**
MASS
45
AREA
4735
HEIGHT
2141
08-Jun-2023
14:56
linh
pham

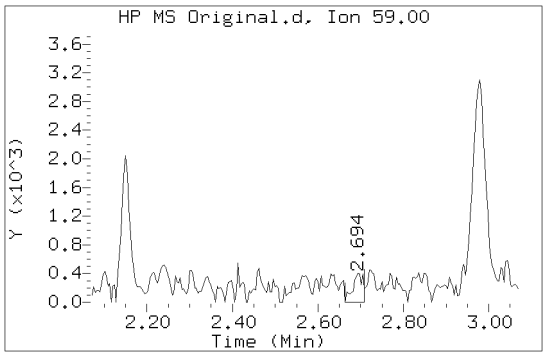



**AFTER**
MASS
45
AREA
4735
HEIGHT
2141
21-Jun-2023
13:47
linh
pha

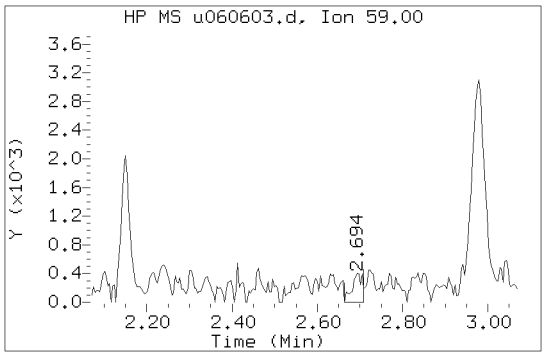



Reason Code:

**BEFORE**
MASS
59
AREA
670
HEIGHT
403
08-Jun-2023
14:56
linh
pham



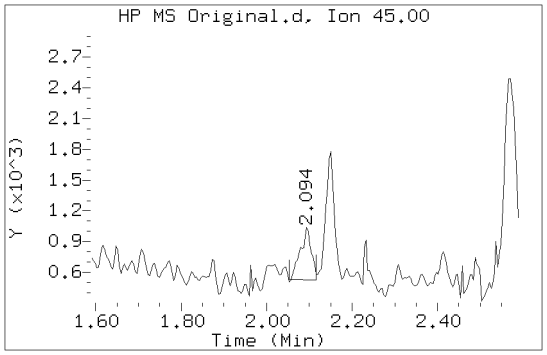

**AFTER**
MASS
59
AREA
670
HEIGHT
403
21-Jun-2023
13:47
linh
pha



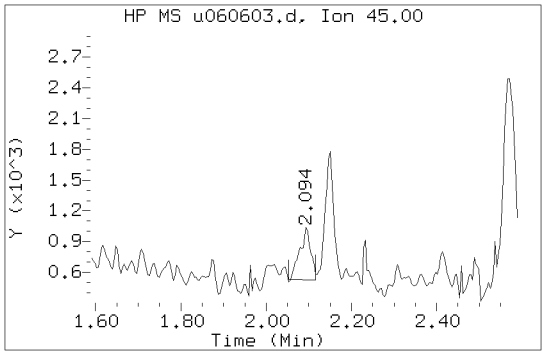

Reason Code:

## Ethanol (64-17-5)

**BEFORE**
MASS
45
AREA
929
HEIGHT
515
08-Jun-2023
14:56
linh
pham

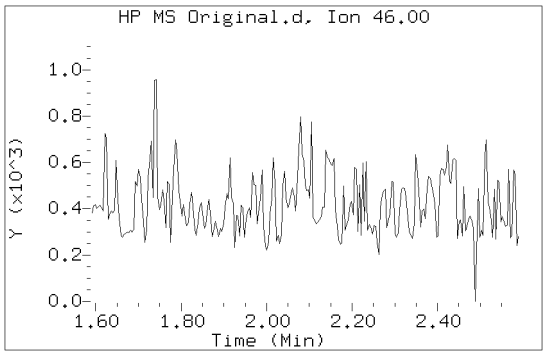



**AFTER**
MASS
45
AREA
929
HEIGHT
515
21-Jun-2023
13:47
linh
pha

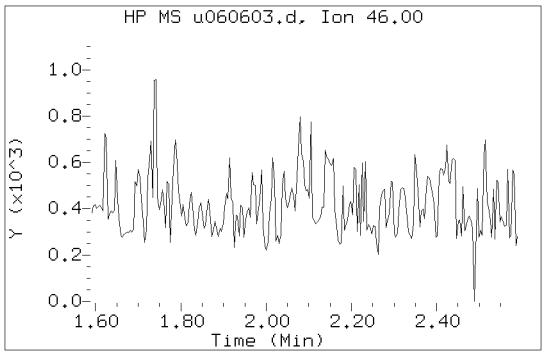



Reason Code:

**BEFORE**
MASS
46
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**
MASS
46
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

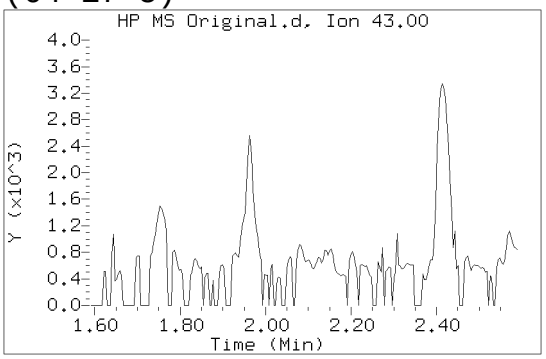


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

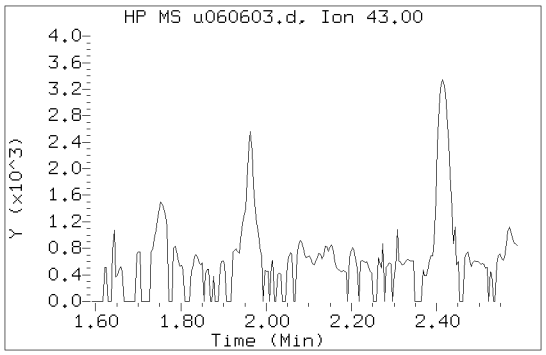
## Ethanol (64-17-5)

Reason Code:

BEFORE
MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



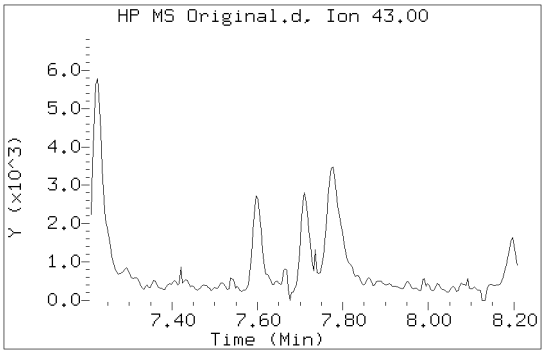

AFTER
MASS
43
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



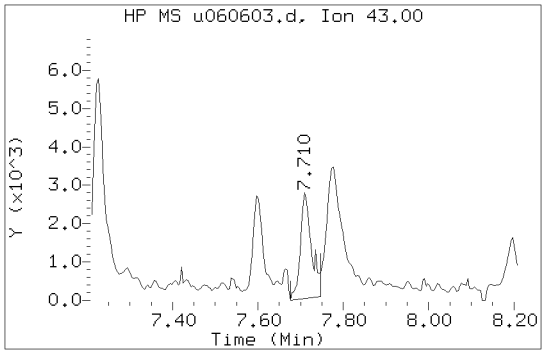

## n-Butyl acetate (123-86-4)

Reason Code:

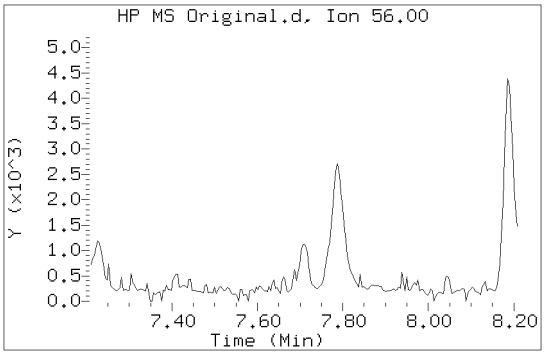
BEFORE
MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



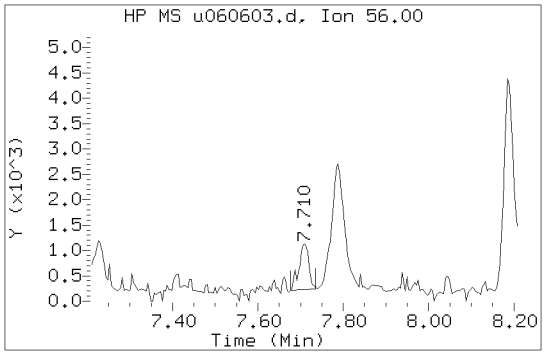

AFTER
MASS
43
AREA
5135
HEIGHT
2763
21-Jun-2023
13:47
linh
pha



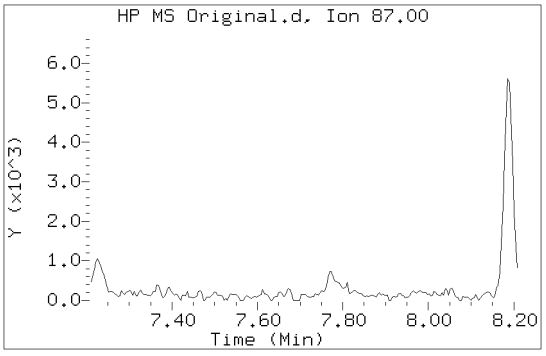

BEFORE
MASS
56
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



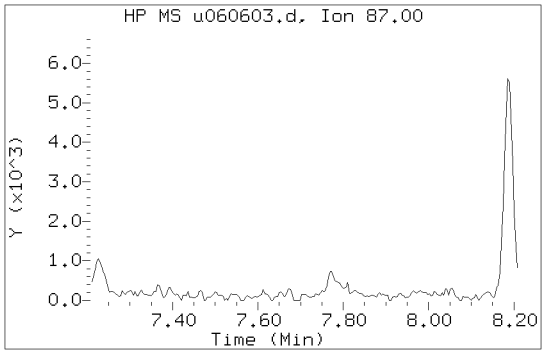

AFTER
MASS
56
AREA
1504
HEIGHT
896
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
87
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




AFTER
MASS
87
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



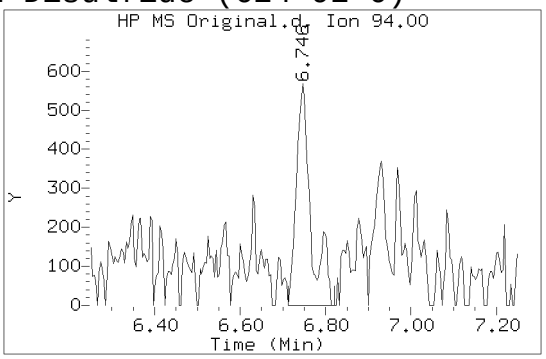
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## Dimethyl Disulfide (624-92-0)

Reason Code:

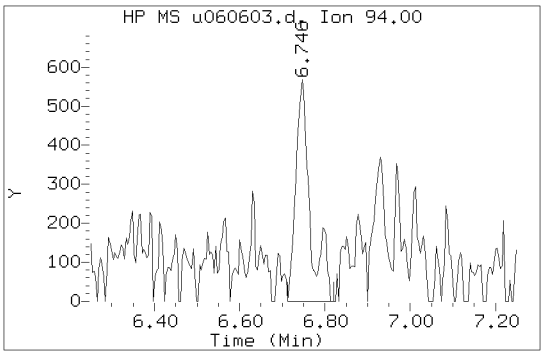
**BEFORE**

MASS
94
AREA
1341
HEIGHT
568
08-Jun-2023
14:56
linh
pham



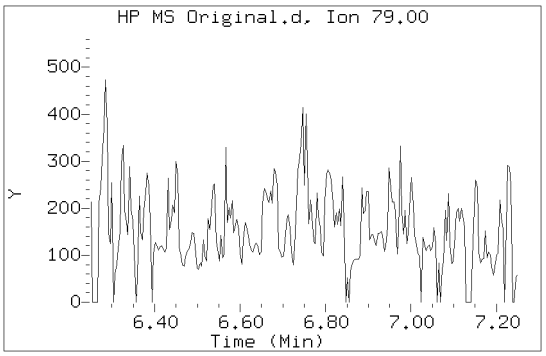

**AFTER**

MASS
94
AREA
1341
HEIGHT
568
21-Jun-2023
13:47
linh
pha



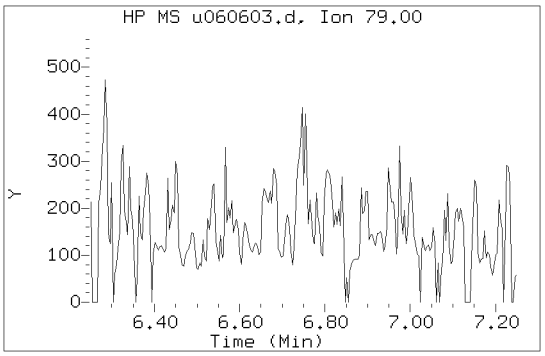

**BEFORE**

MASS
79
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



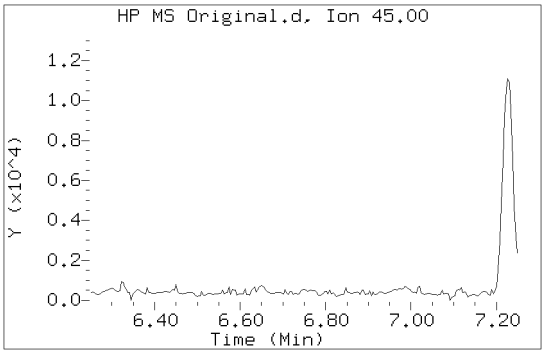

**AFTER**

MASS
79
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



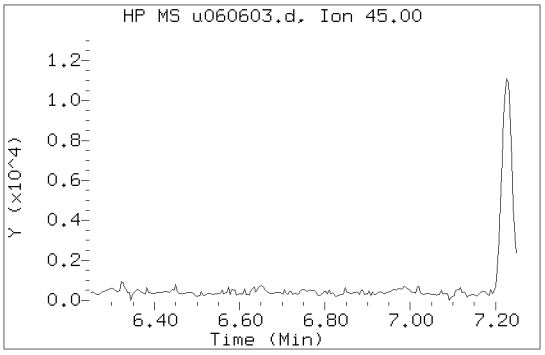

**BEFORE**

MASS
45
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
45
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

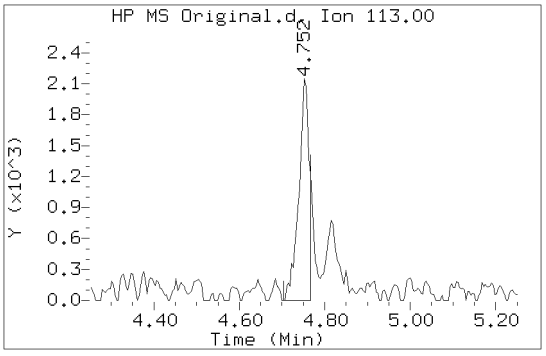



## Dibromofluoromethane (1868-53-7)

Reason Code:

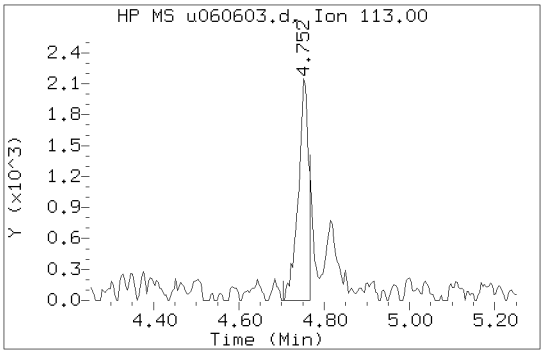
**BEFORE**

MASS
113
AREA
3644
HEIGHT
2149
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
113
AREA
3644
HEIGHT
2149
21-Jun-2023
13:47
linh
pha



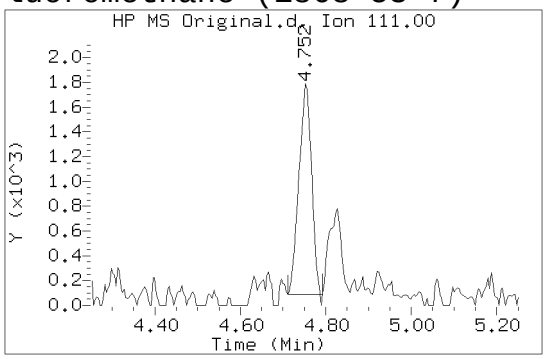
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

## Dibromofluoromethane (1868-53-7)

Reason Code:

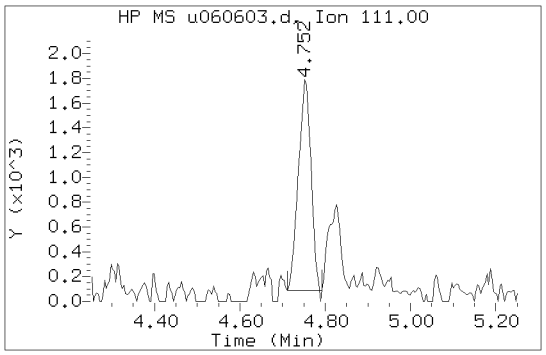
**BEFORE**

MASS
111
AREA
3541
HEIGHT
1703
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
111
AREA
3541
HEIGHT
1703
21-Jun-2023
13:47
linh
pha

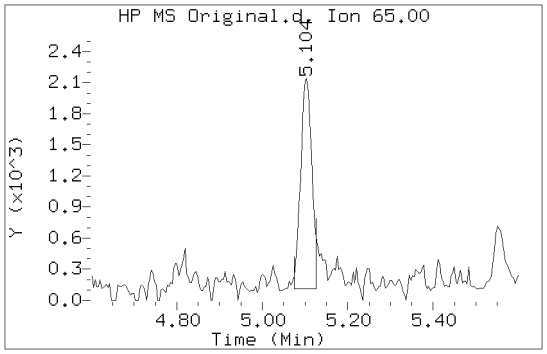



## 1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

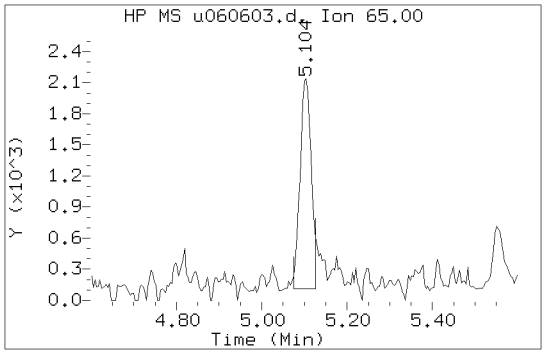
**BEFORE**

MASS
65
AREA
3795
HEIGHT
2029
08-Jun-2023
14:56
linh
pham



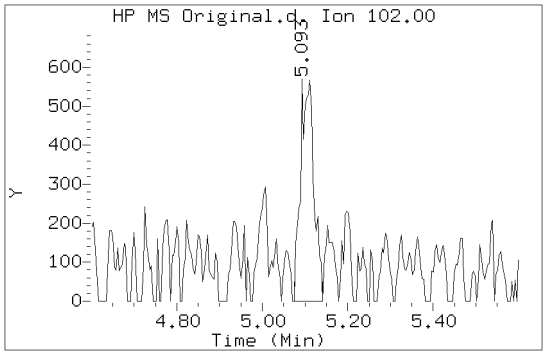

**AFTER**

MASS
65
AREA
3795
HEIGHT
2029
21-Jun-2023
13:47
linh
pha



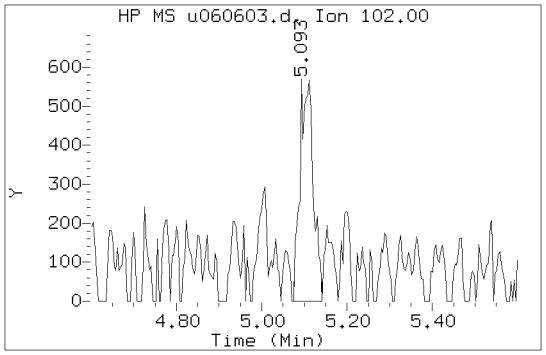

**BEFORE**

MASS
102
AREA
1254
HEIGHT
570
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
102
AREA
1254
HEIGHT
570
21-Jun-2023
13:47
linh
pha

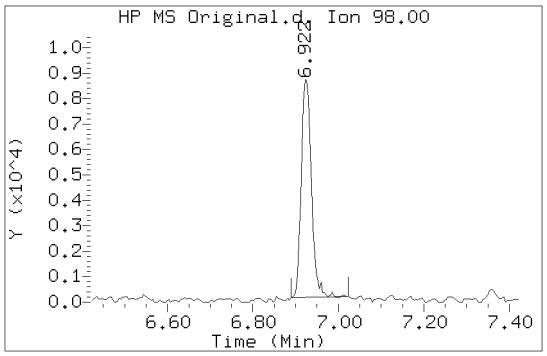



## Toluene-d8 (2037-26-5)

Reason Code:

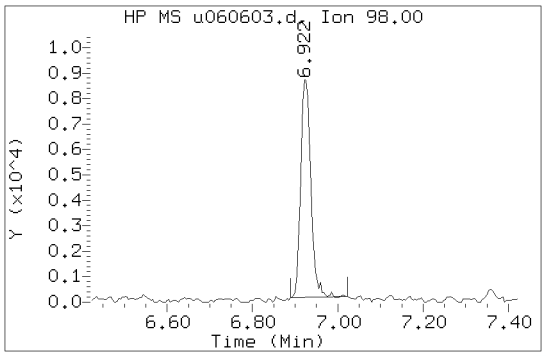
**BEFORE**

MASS
98
AREA
14408
HEIGHT
8549
08-Jun-2023
14:56
linh
pham



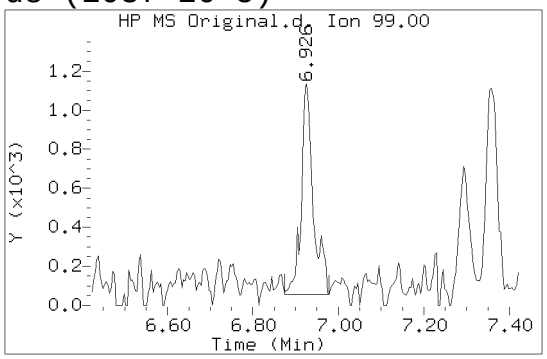

**AFTER**

MASS
98
AREA
14408
HEIGHT
8549
21-Jun-2023
13:47
linh
pha

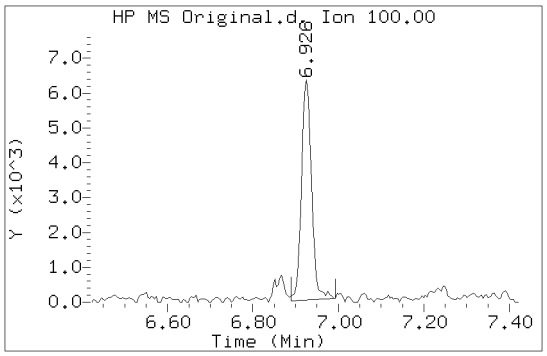


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InstruID : VOA9.i
LabSampID : VSTD000.5

## Toluene-d8 (2037-26-5)

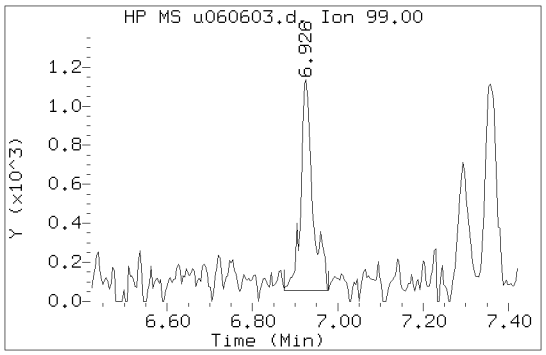



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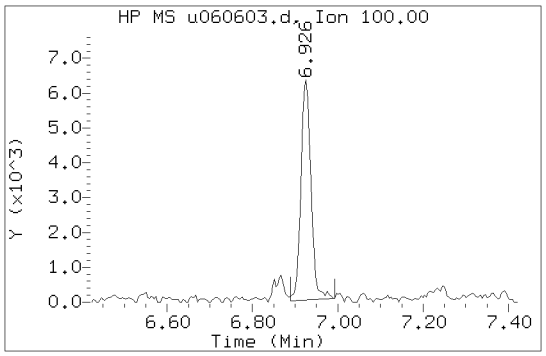



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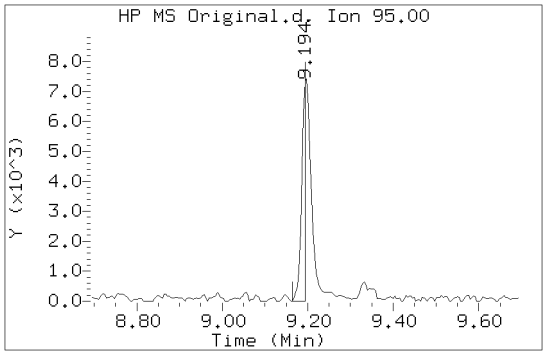



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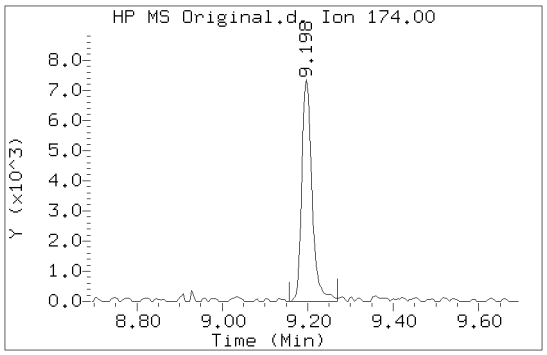



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## 4-Bromofluorobenzene (460-00-4)

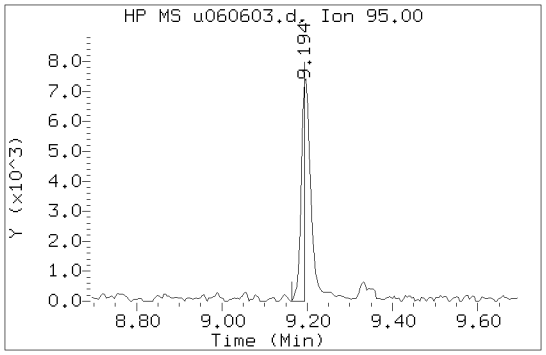



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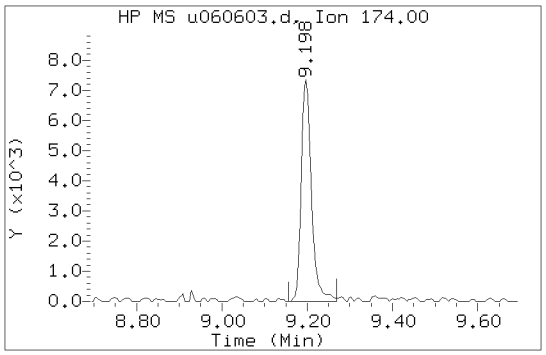



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Reason Code:




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AFTER
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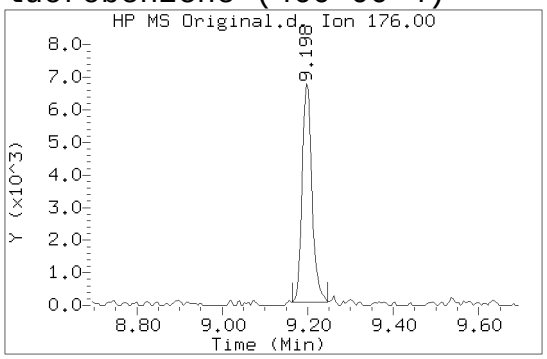
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4-Bromofluorobenzene (460-00-4)

Reason Code:

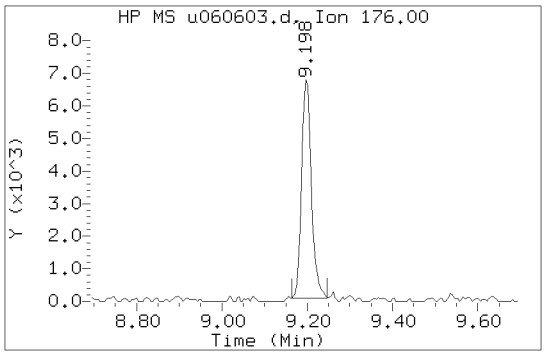
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AFTER

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060606.D Page 1
Report Date: 21-Jun-2023 13:47

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060606.D
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Misc Info : V9;WATER;0;1;
Comment :
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Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 13:06 Cal File: U060606.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.811 | 4.811 | (1.000) | 661055 | 50.0000 | |
| 2 Dichlorodifluoromethane | 85 | 1.156 | 1.156 | (0.240) | 31172 | 5.00000 | 5.17 |
| 3 Chloromethane | 50 | 1.287 | 1.287 | (0.268) | 62455 | 5.00000 | 5.08 |
| 5 Vinyl Chloride | 62 | 1.370 | 1.370 | (0.285) | 36493 | 5.00000 | 5.21 |
| 6 Bromomethane | 94 | 1.613 | 1.613 | (0.335) | 23995 | 5.00000 | 5.08 |
| 7 Chloroethane | 64 | 1.692 | 1.692 | (0.352) | 23603 | 5.00000 | 5.01 |
| 8 Trichlorofluoromethane | 101 | 1.887 | 1.887 | (0.392) | 41967 | 5.00000 | 5.22 |
| 9 Acrolein | 56 | 2.258 | 2.258 | (0.469) | 3393 | 10.0000 | 9.67(aM) |
| 10 Acetone | 43 | 2.401 | 2.401 | (0.499) | 31915 | 10.0000 | 9.15 |
| 11 1,1-Dichloroethene | 96 | 2.326 | 2.326 | (0.483) | 25586 | 5.00000 | 5.09 |
| 15 Iodomethane | 142 | 2.461 | 2.461 | (0.512) | 10875 | 10.0000 | 12.46(M) |
| 16 Acrylonitrile | 53 | 3.060 | 3.060 | (0.636) | 26401 | 10.0000 | 10.76 |
| 17 Methylene Chloride | 84 | 2.787 | 2.787 | (0.579) | 34262 | 5.00000 | 4.77(a) |
| 18 Methyl tert-butyl ether | 73 | 3.075 | 3.075 | (0.639) | 77272 | 5.00000 | 5.02 |
| 19 Carbon Disulfide | 76 | 2.513 | 2.513 | (0.522) | 137840 | 10.0000 | 10.27 |
| 20 trans-1,2-Dichloroethene | 96 | 3.049 | 3.049 | (0.634) | 27553 | 5.00000 | 5.04 |
| 21 Vinyl Acetate | 43 | 3.604 | 3.604 | (0.749) | 174288 | 10.0000 | 10.47 |
| 22 1,1-Dichloroethane | 63 | 3.507 | 3.507 | (0.729) | 52777 | 5.00000 | 5.08 |
| 24 2-Butanone | 43 | 4.264 | 4.264 | (0.886) | 29852 | 10.0000 | 9.90 |
| 26 2,2-Dichloropropane | 77 | 4.174 | 4.174 | (0.868) | 33762 | 5.00000 | 5.28 |
| 27 cis-1,2-Dichloroethene | 96 | 4.189 | 4.189 | (0.871) | 34046 | 5.00000 | 5.21 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 28 | Chloroform | 83 | 4.567 | 4.567 (0.949) | 56388 | 5.00000 | 5.22 |
| 29 | Bromochloromethane | 128 | 4.462 | 4.462 (0.928) | 18916 | 5.00000 | 5.17 |

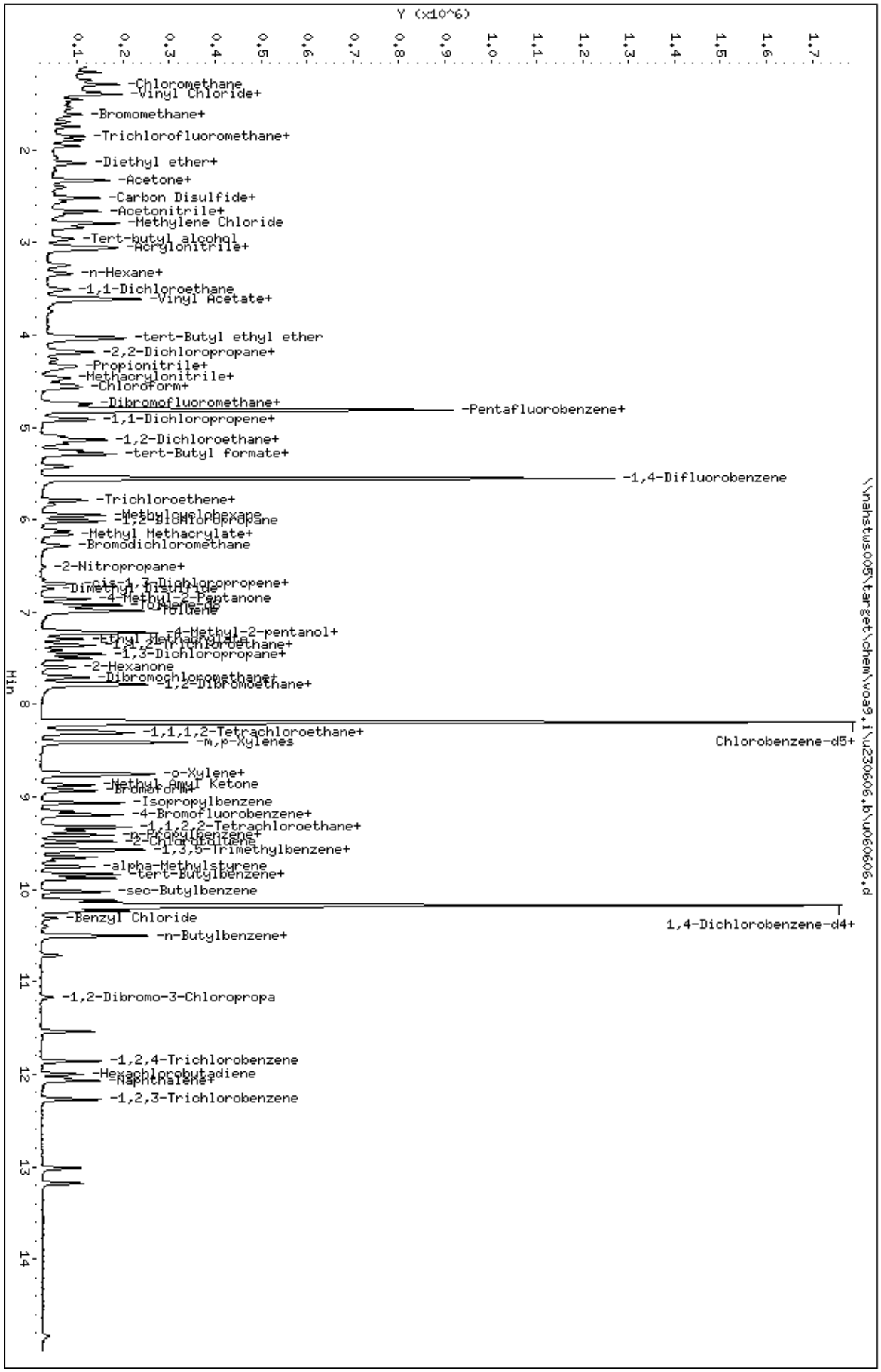
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| $ | 30 Dibromofluoromethane | 113 | 4.744 | 4.744 | (0.986) | 30229 | 5.00000 | 5.16 |
| | 31 1,1,1-Trichloroethane | 97 | 4.740 | 4.740 | (0.985) | 40381 | 5.00000 | 4.90(a) |
| | 32 1,1-Dichloropropene | 75 | 4.920 | 4.920 | (0.887) | 35687 | 5.00000 | 4.94(a) |
| | 33 1,2-Dichloroethane | 62 | 5.175 | 5.175 | (0.932) | 44658 | 5.00000 | 5.23 |
| | 34 Carbon Tetrachloride | 117 | 4.909 | 4.909 | (0.885) | 30773 | 5.00000 | 4.63(a) |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.096 | 5.096 | (1.059) | 34153 | 5.00000 | 5.08 |
| * | 36 1,4-Difluorobenzene | 114 | 5.550 | 5.550 | (1.000) | 985343 | 50.0000 | |
| | 37 Benzene | 78 | 5.137 | 5.137 | (0.926) | 124450 | 5.00000 | 5.24 |
| | 38 Trichloroethene | 130 | 5.786 | 5.786 | (1.043) | 36191 | 5.00000 | 5.25 |
| | 39 Bromodichloromethane | 83 | 6.277 | 6.277 | (1.131) | 36599 | 5.00000 | 4.94(a) |
| | 42 1,2-Dichloropropane | 63 | 6.011 | 6.011 | (1.083) | 32316 | 5.00000 | 5.09 |
| | 44 Dibromomethane | 93 | 6.119 | 6.119 | (1.103) | 20983 | 5.00000 | 5.18 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.858 | 6.858 | (0.838) | 69130 | 10.0000 | 10.20 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.693 | 6.693 | (1.206) | 37734 | 5.00000 | 5.56 |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 930383 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.922 | (0.846) | 106553 | 5.00000 | 5.06(M) |
| | 50 Toluene | 91 | 6.982 | 6.982 | (0.853) | 128415 | 5.00000 | 5.08 |
| | 51 trans-1,3-Dichloropropene | 75 | 7.199 | 7.199 | (1.297) | 31811 | 5.00000 | 5.68(M) |
| | 52 2-Hexanone | 43 | 7.593 | 7.593 | (0.928) | 46135 | 10.0000 | 9.77 |
| | 53 1,1,2-Trichloroethane | 83 | 7.356 | 7.356 | (0.899) | 27005 | 5.00000 | 5.14 |
| | 54 1,3-Dichloropropane | 76 | 7.499 | 7.499 | (0.916) | 55865 | 5.00000 | 5.20 |
| | 55 Dibromochloromethane | 129 | 7.694 | 7.694 | (0.940) | 28715 | 5.00000 | 4.60(a) |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 31033 | 5.00000 | 5.04 |
| | 57 1,2-Dibromoethane | 107 | 7.788 | 7.788 | (0.951) | 31859 | 5.00000 | 4.91(a) |
| | 58 1-Chlorohexane | 55 | 8.196 | 8.196 | (1.477) | 23998 | 5.00000 | 4.74(aM) |
| | 59 Chlorobenzene | 112 | 8.211 | 8.211 | (1.003) | 93304 | 5.00000 | 5.18 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 8.282 | 8.282 | (1.012) | 29452 | 5.00000 | 4.75(a) |
| | 61 Ethylbenzene | 106 | 8.305 | 8.305 | (1.015) | 40417 | 5.00000 | 4.82(a) |
| | 62 m,p-Xylenes | 106 | 8.410 | 8.410 | (1.027) | 87802 | 10.0000 | 8.85(a) |
| | 63 o-Xylene | 106 | 8.747 | 8.747 | (1.069) | 45979 | 5.00000 | 4.69(a) |
| | 64 Styrene | 104 | 8.762 | 8.762 | (1.071) | 64961 | 5.00000 | 4.17(a) |
| | 66 Bromoform | 173 | 8.920 | 8.920 | (1.090) | 18587 | 5.00000 | 4.42(a) |
| | 67 Isopropylbenzene | 105 | 9.062 | 9.062 | (1.107) | 111398 | 5.00000 | 4.73(a) |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 9.328 | 9.328 | (0.917) | 44946 | 5.00000 | 5.11 |
| $ | 69 4-Bromofluorobenzene | 95 | 9.193 | 9.193 | (1.123) | 49215 | 5.00000 | 5.13 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 467357 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 9.362 | 9.362 | (0.920) | 38304 | 5.00000 | 4.95(a) |
| | 73 n-Propylbenzene | 91 | 9.411 | 9.411 | (0.925) | 110045 | 5.00000 | 4.48(a) |
| | 74 Bromobenzene | 156 | 9.317 | 9.317 | (0.916) | 38901 | 5.00000 | 4.93(a) |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.561 | 9.561 | (0.940) | 78874 | 5.00000 | 4.68(a) |
| | 76 2-Chlorotoluene | 91 | 9.482 | 9.482 | (0.932) | 85816 | 5.00000 | 4.97(a) |
| | 77 4-Chlorotoluene | 91 | 9.576 | 9.576 | (0.941) | 94195 | 5.00000 | 4.93(a) |
| | 78 tert-Butylbenzene | 119 | 9.838 | 9.838 | (0.967) | 79517 | 5.00000 | 4.81(a) |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.879 | 9.879 | (0.971) | 85616 | 5.00000 | 4.86(a) |
| | 81 sec-Butylbenzene | 105 | 10.022 | 10.022 | (0.985) | 96016 | 5.00000 | 4.58(a) |
| | 82 p-Isopropyltoluene | 119 | 10.145 | 10.145 | (0.997) | 79695 | 5.00000 | 4.54(a) |
| | 83 1,3-Dichlorobenzene | 146 | 10.116 | 10.116 | (0.994) | 67753 | 5.00000 | 5.05 |
| | 84 1,4-Dichlorobenzene | 146 | 10.190 | 10.190 | (1.002) | 73343 | 5.00000 | 5.13 |
| | 87 n-Butylbenzene | 91 | 10.494 | 10.494 | (1.032) | 70944 | 5.00000 | 4.72(a) |
| | 88 1,2-Dichlorobenzene | 146 | 10.505 | 10.505 | (1.033) | 65904 | 5.00000 | 4.90(a) |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 11.169 | 11.169 | (1.098) | 5840 | 5.00000 | 4.55(a) |
| | 90 1,2,4-Trichlorobenzene | 180 | 11.859 | 11.859 | (1.166) | 42718 | 5.00000 | 4.62(a) |

| | | | | | | |
|---|---|---|---|---|---|---|
| 92 Naphthalene | 128 | 12.069 | 12.069 (1.186) | 95946 | 5.00000 | 4.47(a) |
| 93 1,2,3-Trichlorobenzene | 180 | 12.271 | 12.271 (1.206) | 42734 | 5.00000 | 4.73(a) |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| M 94 1,2-Dichloroethylene (total) | 96 | | | | 61599 | 10.0000 | 10.26 |
| M 95 Xylenes (total) | 106 | | | | 133781 | 15.0000 | 13.54(a) |
| 135 1,4-Dioxane | 88 | 6.172 | 6.172 | (1.283) | 12691 | 100.000 | 96.68(a) |
| 141 Cyclohexane | 56 | 4.777 | 4.777 | (0.993) | 37840 | 5.00000 | 4.93(aM) |
| 138 Freon TF | 101 | 2.326 | 2.326 | (0.483) | 23128 | 5.00000 | 5.20 |
| 140 1,3-Butadiene | 54 | 1.396 | 1.396 | (0.290) | 32480 | 5.00000 | 5.18 |
| 147 Methylcyclohexane | 55 | 5.947 | 5.947 | (1.072) | 68659 | 5.00000 | 5.02 |
| 146 Methyl Acetate | 43 | 2.708 | 2.708 | (0.563) | 27090 | 5.00000 | 4.86(a) |
| 148 Tert-Butyl alcohol | 59 | 2.963 | 2.963 | (0.616) | 66425 | 100.000 | 104.33 |
| 149 Isopropyl Alcohol | 45 | 2.558 | 2.558 | (0.532) | 41674 | 100.000 | 96.43 |
| 72 trans-1,4-Dichloro-2-butene | 53 | 9.381 | 9.381 | (1.146) | 5142 | 5.00000 | 4.79(M) |
| 12 Isobutyl Alcohol | 43 | 5.287 | 5.287 | (1.099) | 83135 | 100.000 | 96.79(M) |
| 13 Acetonitrile | 39 | 2.663 | 2.663 | (0.554) | 35522 | 50.0000 | 49.63 |
| 14 Allyl Chloride | 41 | 2.667 | 2.667 | (0.554) | 87674 | 5.00000 | 5.10 |
| 25 Methacrylonitrile | 41 | 4.492 | 4.492 | (0.934) | 18250 | 5.00000 | 4.67 |
| 40 Methyl Methacrylate | 41 | 6.157 | 6.157 | (1.280) | 26729 | 5.00000 | 4.70 |
| 4 Propionitrile | 54 | 4.335 | 4.335 | (0.901) | 49866 | 50.0000 | 52.20(a) |
| 136 n-Hexane | 57 | 3.334 | 3.334 | (0.693) | 28289 | 5.00000 | 5.36 |
| 194 Acetaldehyde | 44 | 1.452 | 1.452 | (0.302) | 14773 | 20.0000 | 16.20(M) |
| 131 Methyl Acrylate | 55 | 4.369 | 4.369 | (0.908) | 32767 | 5.00000 | 4.68(aM) |
| 200 Dimethyl Disulfide | 94 | 6.742 | 6.742 | (0.824) | 15263 | 5.00000 | 6.61(M) |
| 23 Chloroprene | 53 | 2.150 | 2.150 | (0.447) | 9849 | 5.00000 | 4.67(aM) |
| 49 Ethyl Methacrylate | 69 | 7.293 | 7.293 | (1.314) | 44828 | 5.00000 | 5.18 |
| 166 1,2,3-Trimethylbenzene | 105 | 10.235 | 10.235 | (1.006) | 96136 | 5.00000 | 5.35 |
| 167 Ethanol | 45 | 2.075 | 2.075 | (0.431) | 9968 | 100.000 | 100.77 |
| 164 Dicyclopentadiene | 66 | 10.202 | 10.202 | (1.003) | 115572 | 5.00000 | 5.06 |
| 145 alpha-Methylstyrene | 118 | 9.756 | 9.756 | (0.959) | 33946 | 5.00000 | 7.13 |
| 142 Tetrahydrofuran | 42 | 4.541 | 4.541 | (0.944) | 13490 | 10.0000 | 9.46 |
| 156 Diisopropyl ether | 45 | 3.615 | 3.615 | (0.751) | 94647 | 5.00000 | 5.13 |
| 151 4-Methyl-2-pentanol | 45 | 7.222 | 7.222 | (1.301) | 137040 | 100.000 | 93.52 |
| 150 Allyl alcohol | 57 | 3.334 | 3.334 | (0.693) | 27611 | 100.000 | 105.45(M) |
| 86 Benzyl Chloride | 91 | 10.310 | 10.310 | (1.260) | 22092 | 5.00000 | 7.16 |
| 162 Butyl acrylate | 55 | 8.736 | 8.736 | (1.067) | 52526 | 5.00000 | 4.77(a) |
| 139 Diethyl ether | 59 | 2.135 | 2.135 | (0.444) | 23079 | 5.00000 | 5.16 |
| 203 2-Ethylhexyl Acrylate | 55 | 12.042 | 12.042 | (1.184) | 19373 | 5.00000 | 6.09 |
| 134 Cyclohexanone | 55 | 9.156 | 9.156 | (0.900) | 28189 | 100.000 | 97.28(a) |
| 130 Ethyl Acetate | 43 | 4.264 | 4.264 | (0.886) | 29376 | 5.00000 | 4.97(aM) |
| 189 n-Butyl acetate | 43 | 7.709 | 7.709 | (0.942) | 50116 | 5.00000 | 4.73(aM) |
| 182 Epichlorohydrin | 57 | 6.629 | 6.629 | (1.195) | 2028 | 20.0000 | 31.12(M) |
| 132 n-Butanol | 56 | 5.831 | 5.831 | (1.212) | 16483 | 100.000 | 86.46(a) |

QC Flag Legend

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




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Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

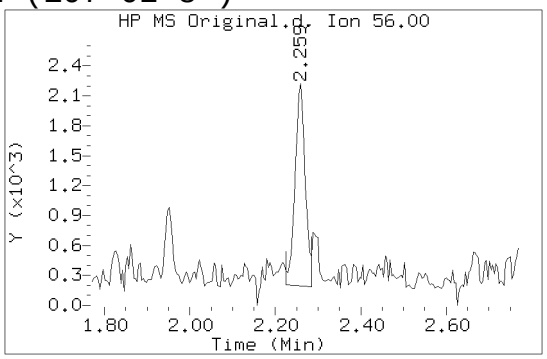
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InstruID : VOA9.i
LabSampID : VSTD005

## Acrolein (107-02-8 )

Reason Code:

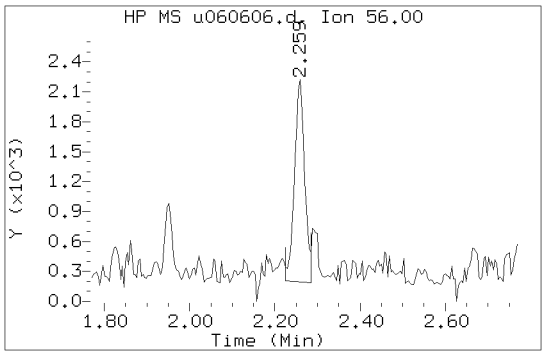
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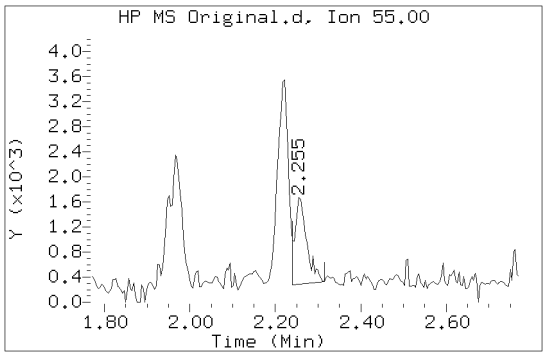

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linh
pha



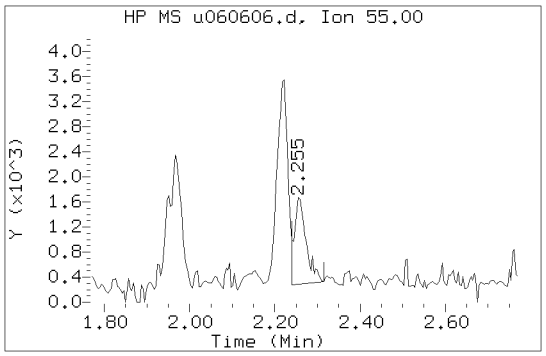

BEFORE

MASS
55
AREA
2699
HEIGHT
1383
08-Jun-2023
14:56
linh
pham




AFTER

MASS
55
AREA
2699
HEIGHT
1383
21-Jun-2023
13:47
linh
pha

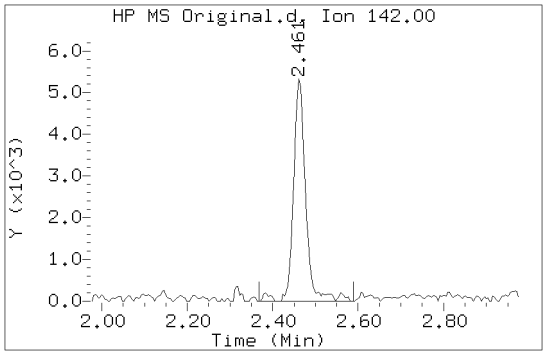



## Iodomethane (74-88-4)

Reason Code:

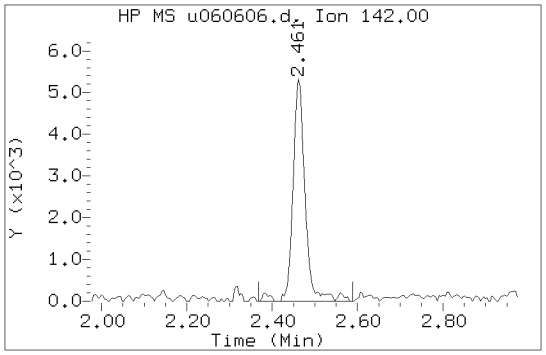
BEFORE

MASS
142
AREA
10875
HEIGHT
5328
08-Jun-2023
14:56
linh
pham



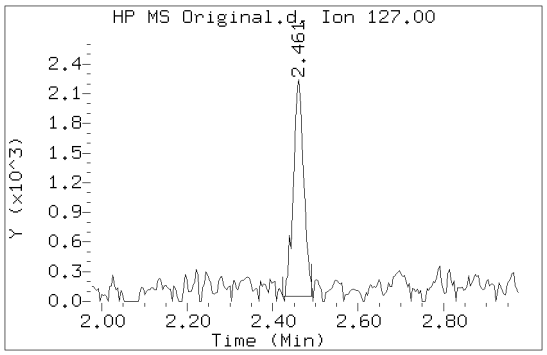

AFTER

MASS
142
AREA
10875
HEIGHT
5328
21-Jun-2023
13:47
linh
pha



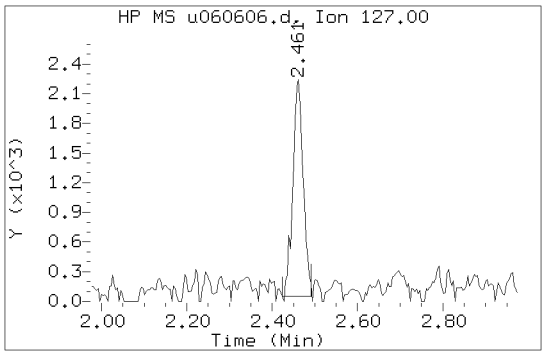

BEFORE

MASS
127
AREA
3748
HEIGHT
2188
08-Jun-2023
14:56
linh
pham




AFTER

MASS
127
AREA
3748
HEIGHT
2188
21-Jun-2023
13:47
linh
pha

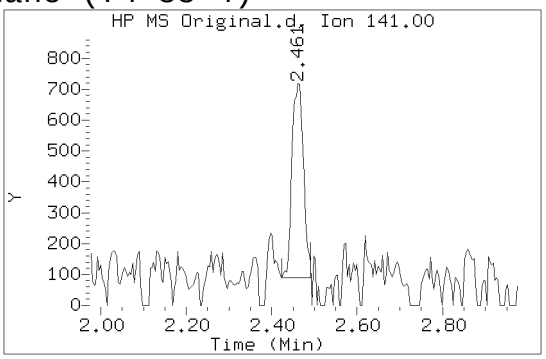


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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

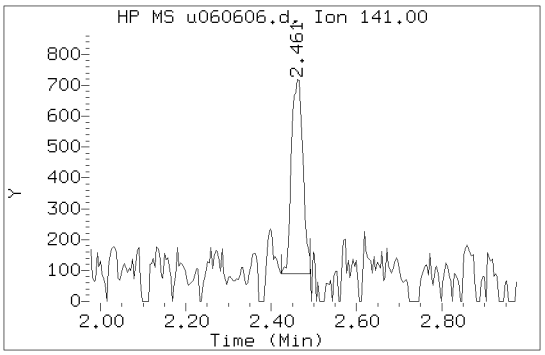
## Iodomethane (74-88-4)

Reason Code:

BEFORE
MASS
141
AREA
1206
HEIGHT
629
08-Jun-2023
14:56
linh
pham



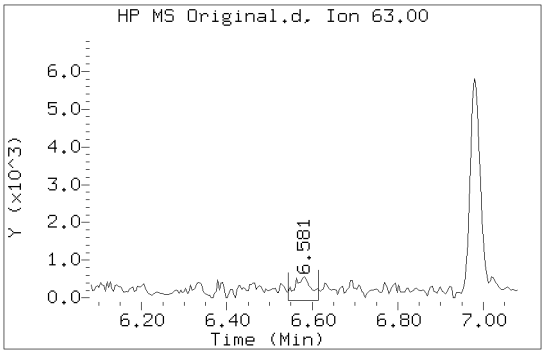

AFTER
MASS
141
AREA
1206
HEIGHT
629
21-Jun-2023
13:47
linh
pha



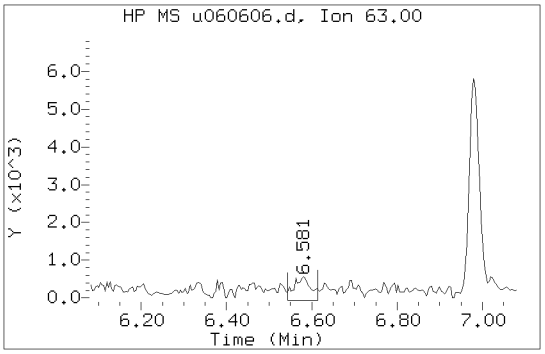

## 2-Chloroethylvinyl ether (110-75-8)

Reason Code:

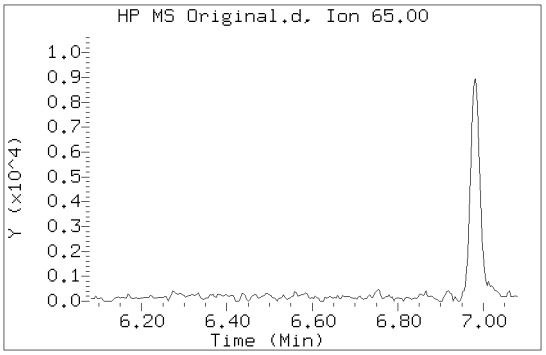
BEFORE
MASS
63
AREA
1764
HEIGHT
623
08-Jun-2023
14:56
linh
pham



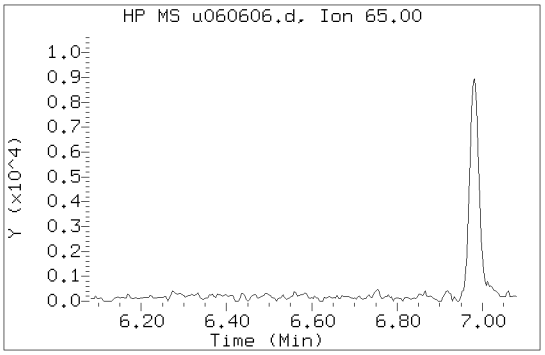

AFTER
MASS
63
AREA
1764
HEIGHT
623
21-Jun-2023
13:47
linh
pha



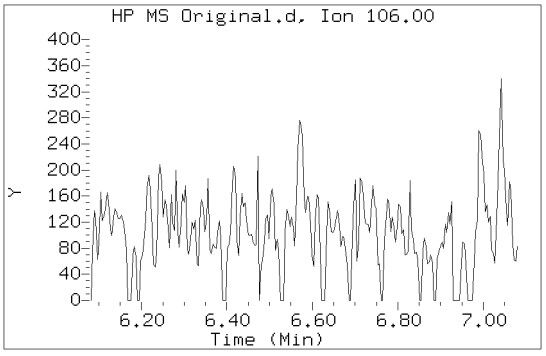

BEFORE
MASS
65
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



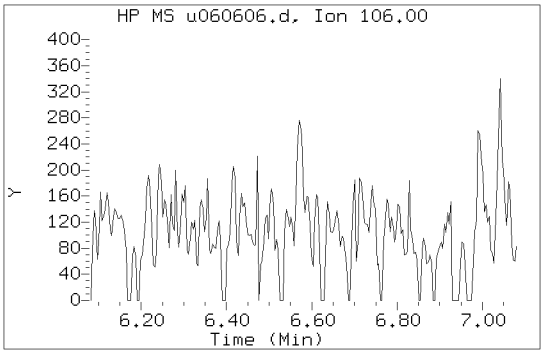

AFTER
MASS
65
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
106
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




AFTER
MASS
106
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

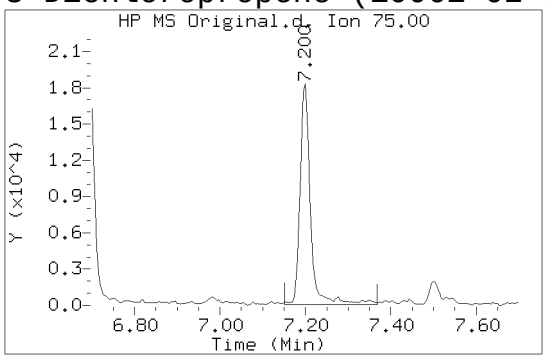


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InstruID : VOA9.i
LabSampID : VSTD005

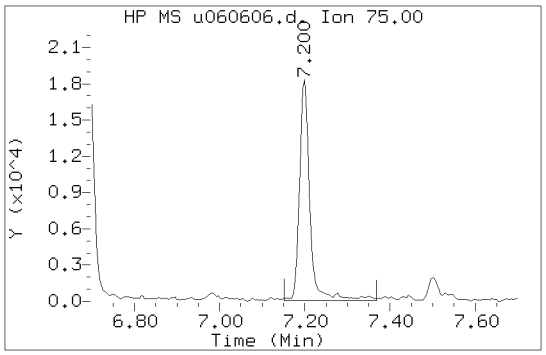
## trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

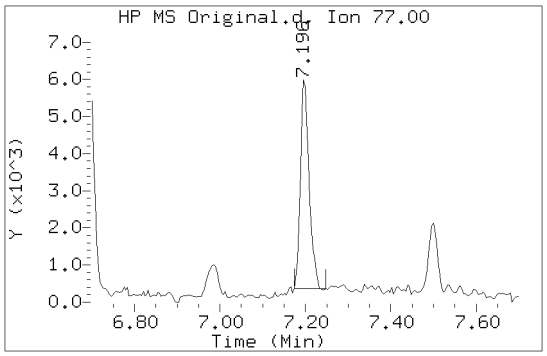
BEFORE
MASS
75
AREA
31811
HEIGHT
18277
08-Jun-2023
14:56
linh
pham



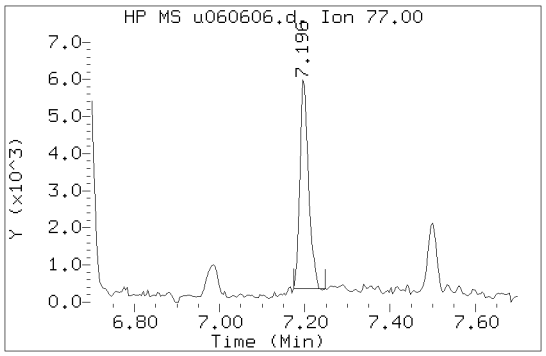

AFTER
MASS
75
AREA
31811
HEIGHT
18277
21-Jun-2023
13:47
linh
pha



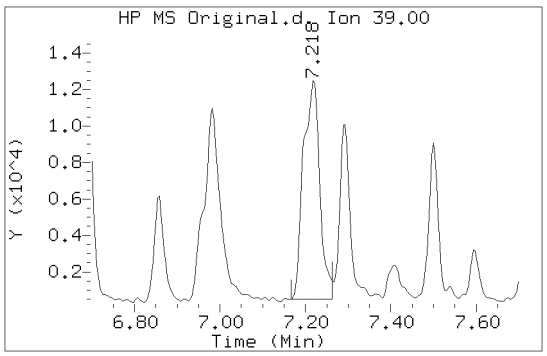

BEFORE
MASS
77
AREA
8164
HEIGHT
5630
08-Jun-2023
14:56
linh
pham



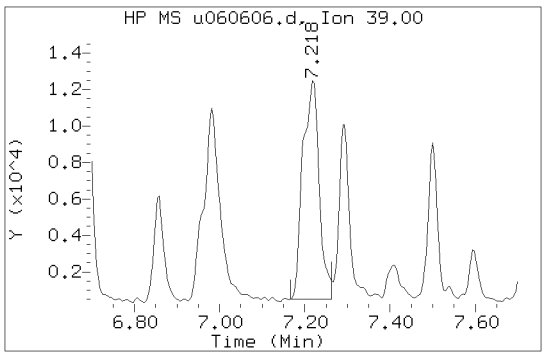

AFTER
MASS
77
AREA
8164
HEIGHT
5630
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
39
AREA
32255
HEIGHT
11964
08-Jun-2023
14:56
linh
pham



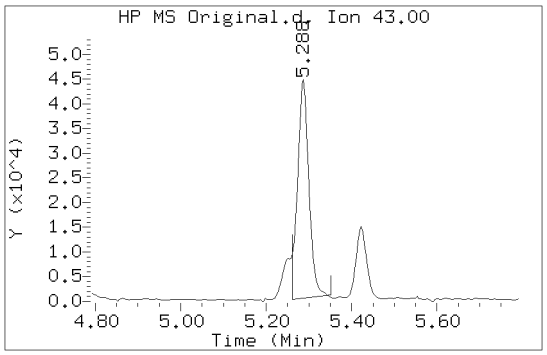

AFTER
MASS
39
AREA
32255
HEIGHT
11964
21-Jun-2023
13:47
linh
pha



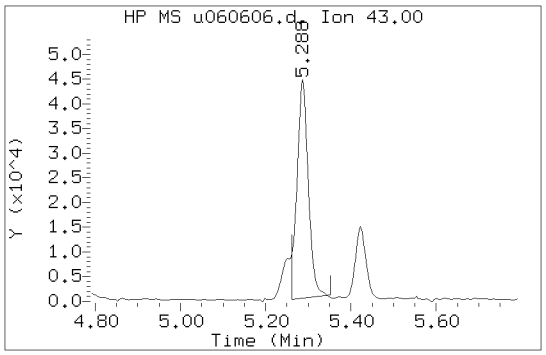

## Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE
MASS
43
AREA
83135
HEIGHT
44258
08-Jun-2023
14:56
linh
pham




AFTER
MASS
43
AREA
83135
HEIGHT
44258
21-Jun-2023
13:47
linh
pha

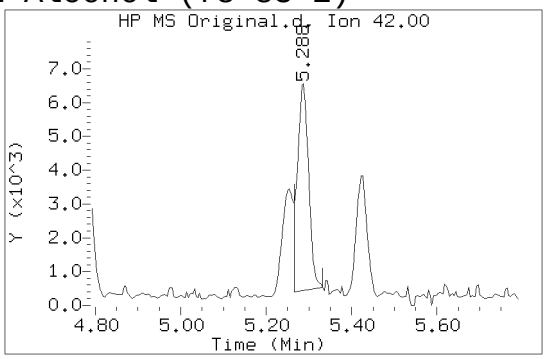


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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

## Isobutyl Alcohol (78-83-1)

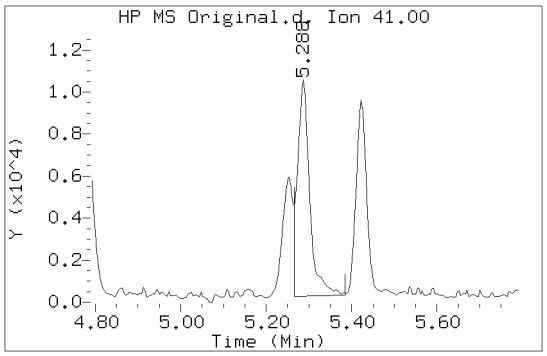
### BEFORE

MASS
42
AREA
11630
HEIGHT
6123
08-Jun-2023
14:56
linh
pham




### BEFORE

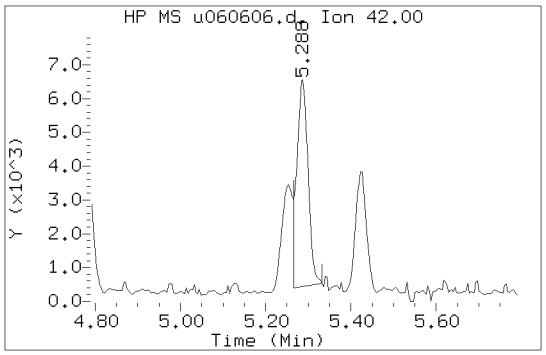
MASS
41
AREA
21244
HEIGHT
10293
08-Jun-2023
14:56
linh
pham




### Reason Code:

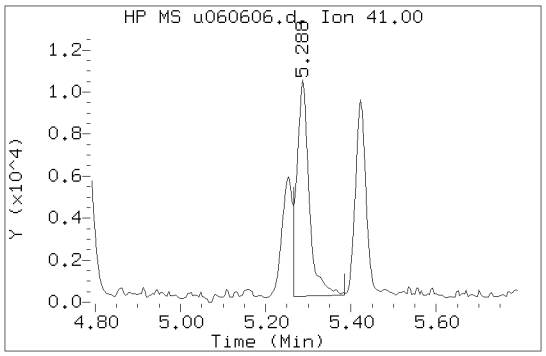
### AFTER

MASS
42
AREA
11630
HEIGHT
6123
21-Jun-2023
13:47
linh
pha




### AFTER

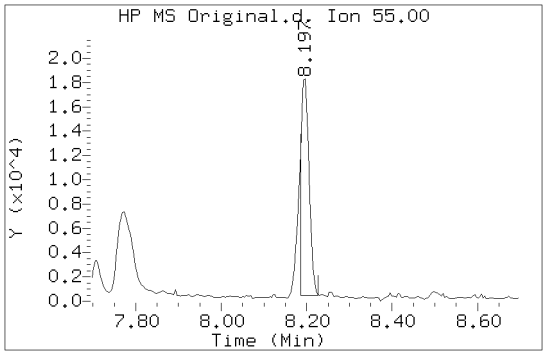
MASS
41
AREA
21244
HEIGHT
10293
21-Jun-2023
13:47
linh
pha




## 1-Chlorohexane (544-10-5)

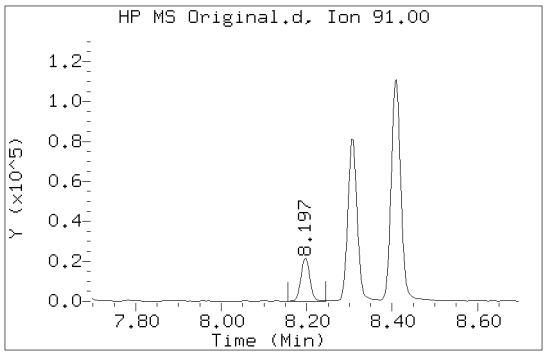
### BEFORE

MASS
55
AREA
23998
HEIGHT
17834
08-Jun-2023
14:56
linh
pham




### BEFORE

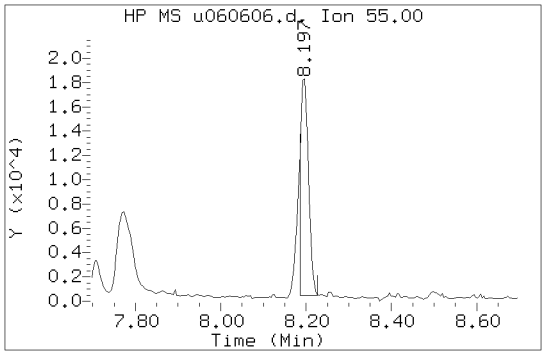
MASS
91
AREA
32110
HEIGHT
21527
08-Jun-2023
14:56
linh
pham




### Reason Code:

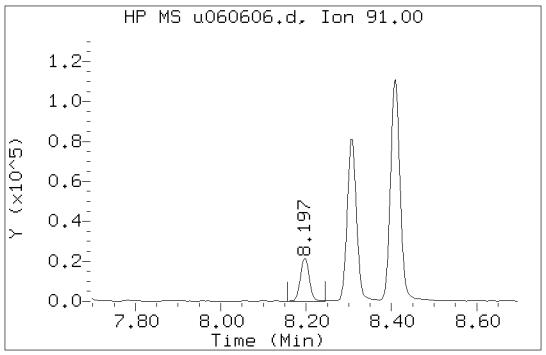
### AFTER

MASS
55
AREA
23998
HEIGHT
17834
21-Jun-2023
13:47
linh
pha




### AFTER

MASS
91
AREA
32110
HEIGHT
21527
21-Jun-2023
13:47
linh
pha



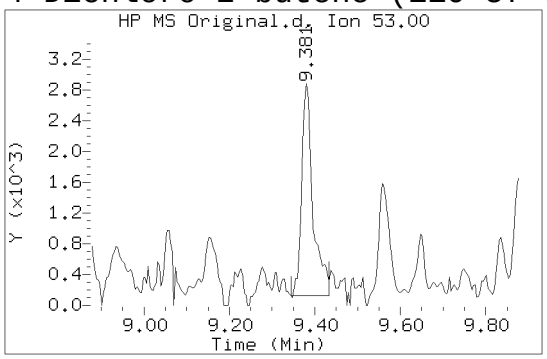
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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

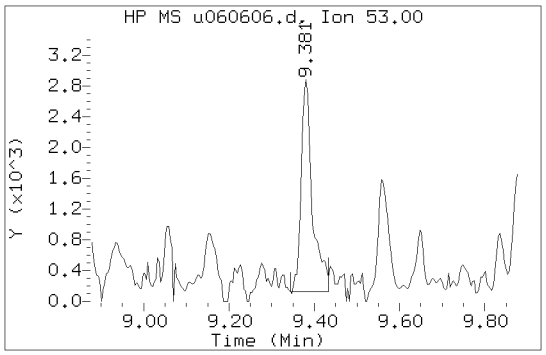
BEFORE

MASS
53
AREA
5142
HEIGHT
2759
08-Jun-2023
14:56
linh
pham



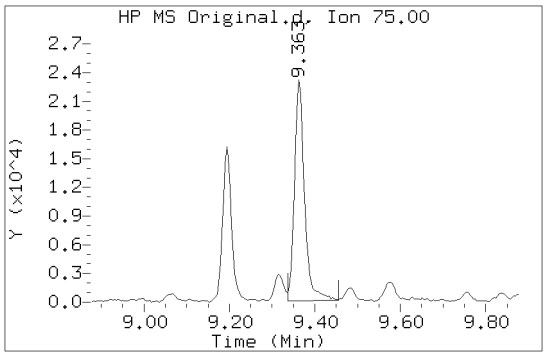

AFTER

MASS
53
AREA
5142
HEIGHT
2759
21-Jun-2023
13:47
linh
pha



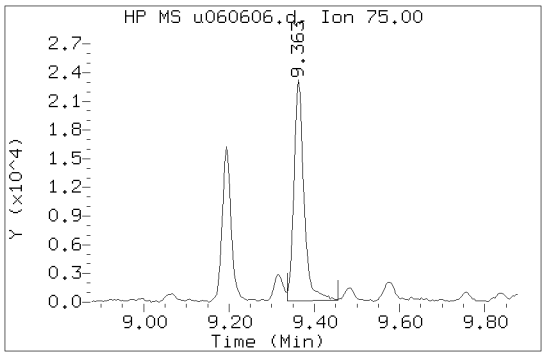

BEFORE

MASS
75
AREA
38567
HEIGHT
23094
08-Jun-2023
14:56
linh
pham




AFTER

MASS
75
AREA
38567
HEIGHT
23094
21-Jun-2023
13:47
linh
pha

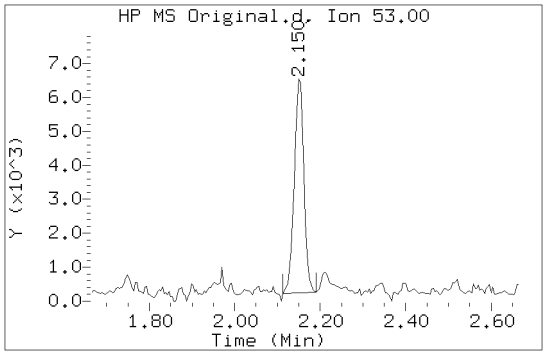



## Chloroprene (126-99-8)

Reason Code:

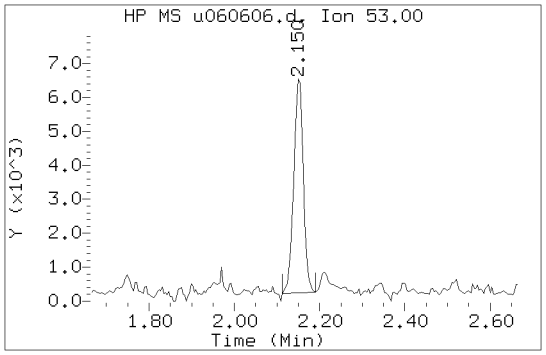
BEFORE

MASS
53
AREA
9849
HEIGHT
6297
08-Jun-2023
14:56
linh
pham



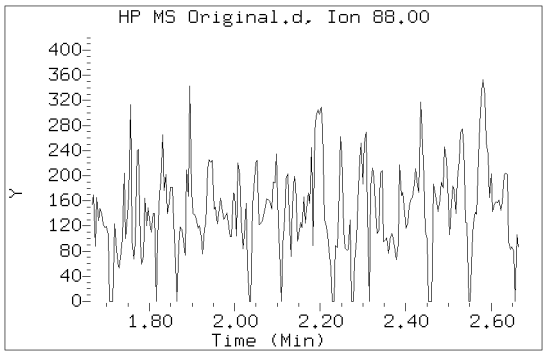

AFTER

MASS
53
AREA
9849
HEIGHT
6297
21-Jun-2023
13:47
linh
pha



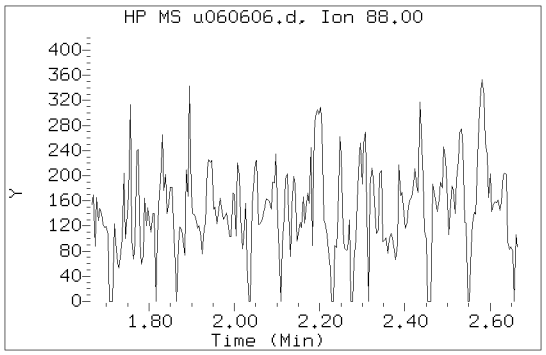

BEFORE

MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




AFTER

MASS
88
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

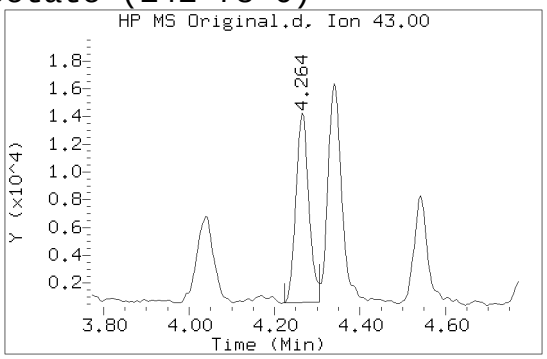


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LabSampID : VSTD005

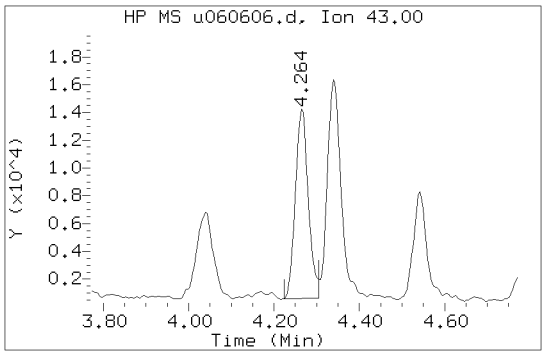
## Ethyl Acetate (141-78-6)

Reason Code:

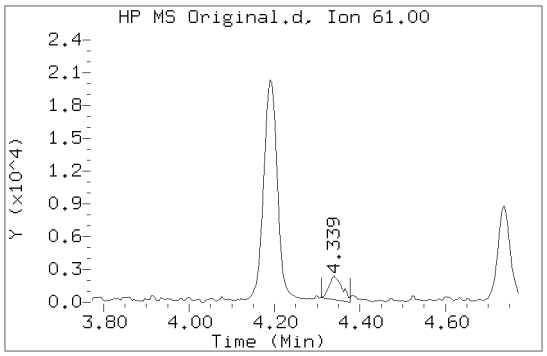
BEFORE
MASS
43
AREA
29376
HEIGHT
13625
08-Jun-2023
14:56
linh
pham



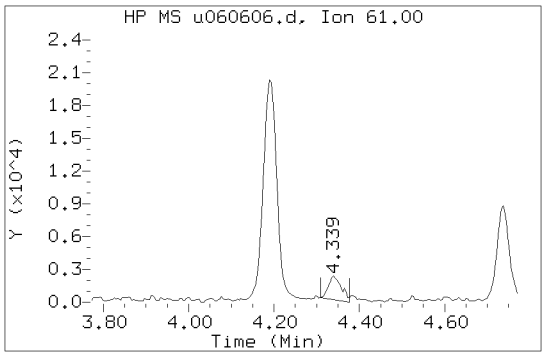

AFTER
MASS
43
AREA
29376
HEIGHT
13625
21-Jun-2023
13:47
linh
pha



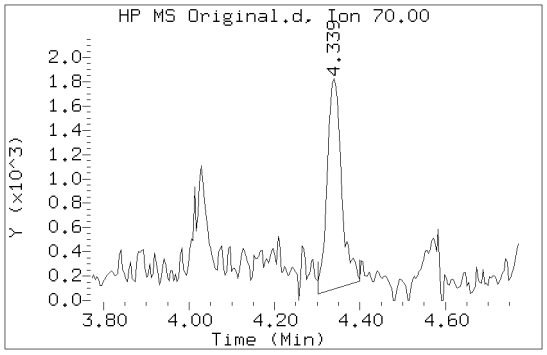

BEFORE
MASS
61
AREA
4693
HEIGHT
2196
08-Jun-2023
14:56
linh
pham



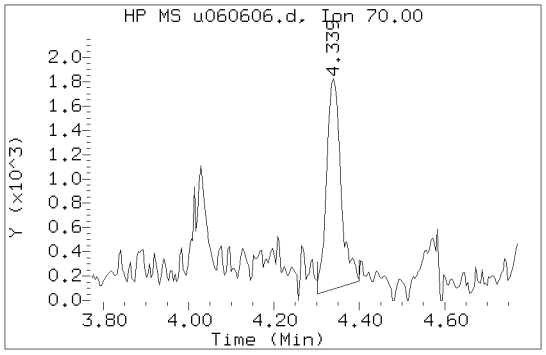

AFTER
MASS
61
AREA
4693
HEIGHT
2196
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
70
AREA
4078
HEIGHT
1731
08-Jun-2023
14:56
linh
pham



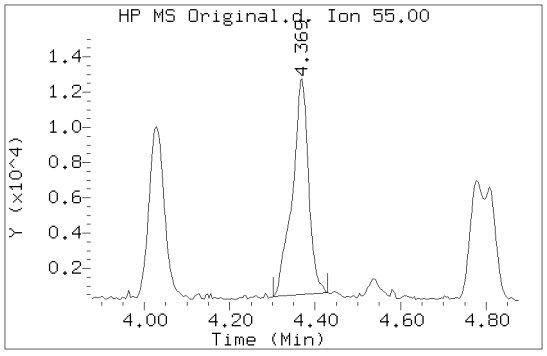

AFTER
MASS
70
AREA
4078
HEIGHT
1731
21-Jun-2023
13:47
linh
pha



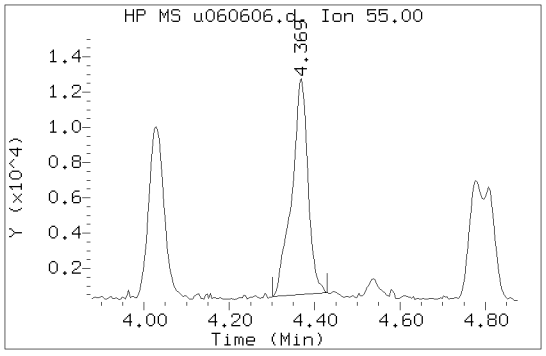

## Methyl Acrylate (96-33-3)

Reason Code:

BEFORE
MASS
55
AREA
32767
HEIGHT
12241
08-Jun-2023
14:56
linh
pham




AFTER
MASS
55
AREA
32767
HEIGHT
12241
21-Jun-2023
13:47
linh
pha



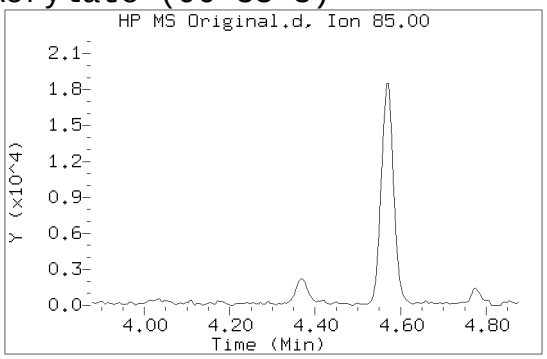
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060606.d
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

## Methyl Acrylate (96-33-3)

Reason Code:

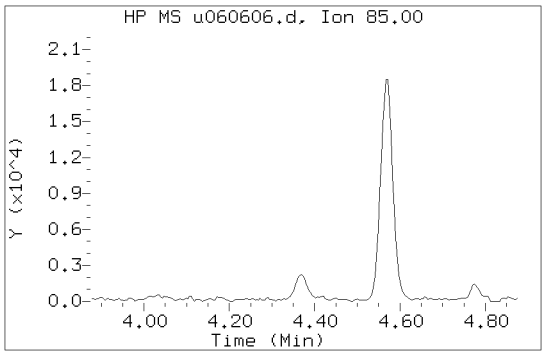
**BEFORE**

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

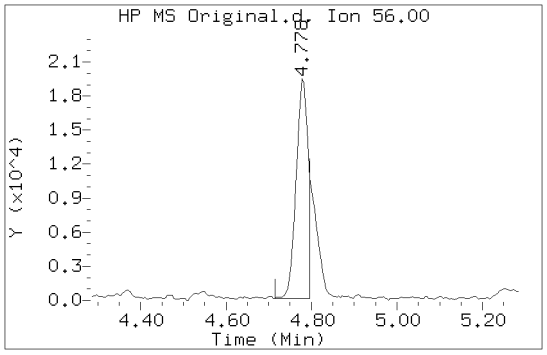



## Cyclohexane (110-82-7)

Reason Code:

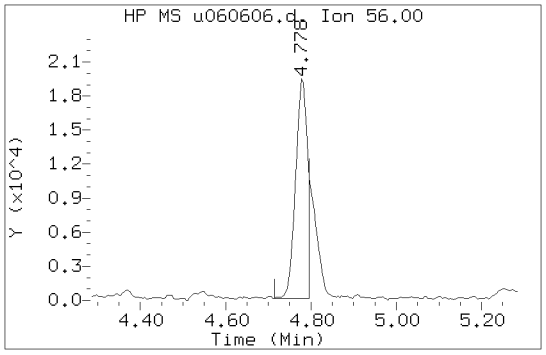
**BEFORE**

MASS
56
AREA
37840
HEIGHT
19339
08-Jun-2023
14:56
linh
pham



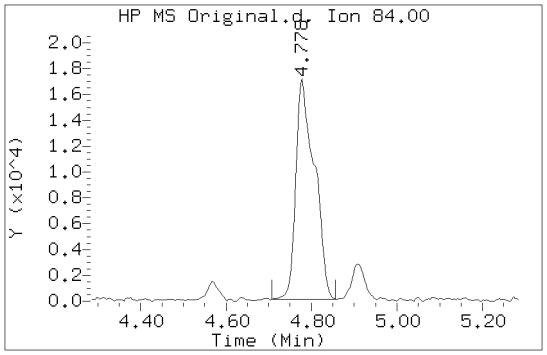

**AFTER**

MASS
56
AREA
37840
HEIGHT
19339
21-Jun-2023
13:47
linh
pha



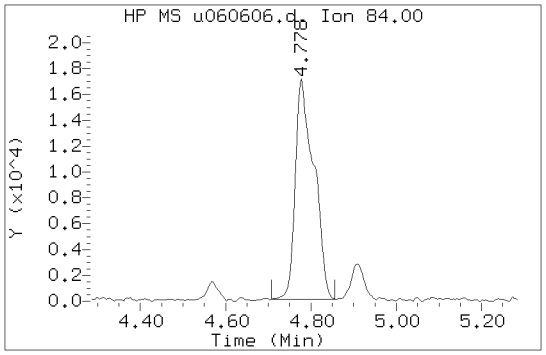

**BEFORE**

MASS
84
AREA
52176
HEIGHT
17059
08-Jun-2023
14:56
linh
pham



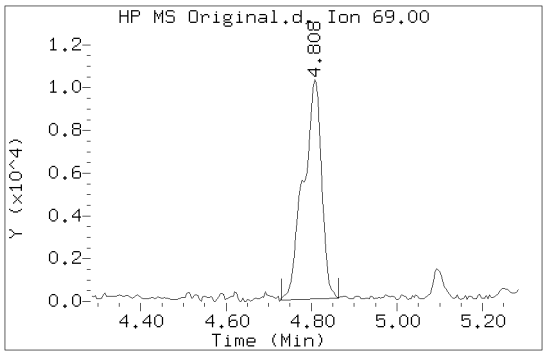

**AFTER**

MASS
84
AREA
52176
HEIGHT
17059
21-Jun-2023
13:47
linh
pha



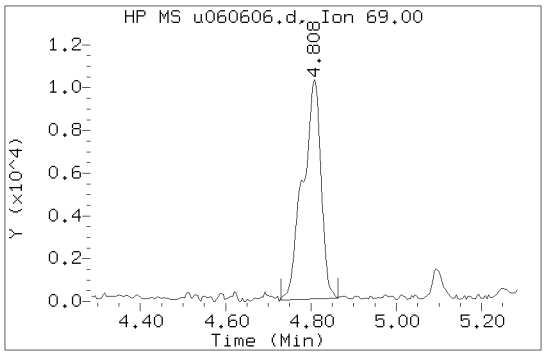

**BEFORE**

MASS
69
AREA
30602
HEIGHT
10254
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
69
AREA
30602
HEIGHT
10254
21-Jun-2023
13:47
linh
pha



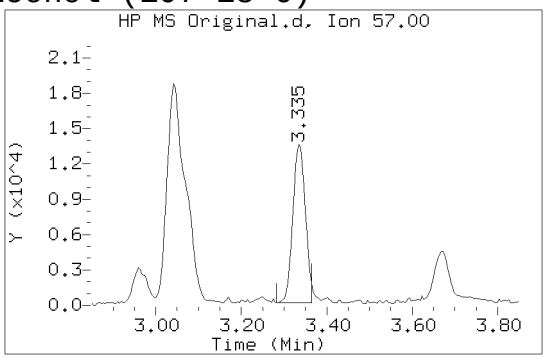
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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

## Allyl alcohol (107-18-6)

Reason Code:

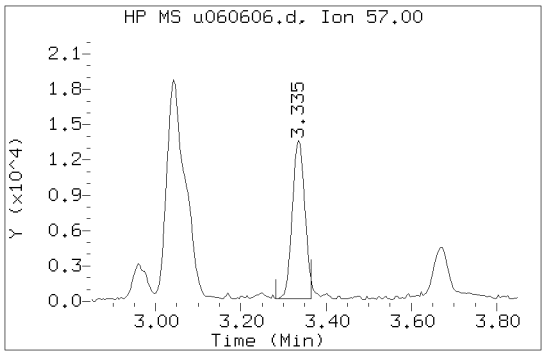
**BEFORE**

MASS
57
AREA
27611
HEIGHT
13437
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
57
AREA
27611
HEIGHT
13437
21-Jun-2023
13:47
linh
pha

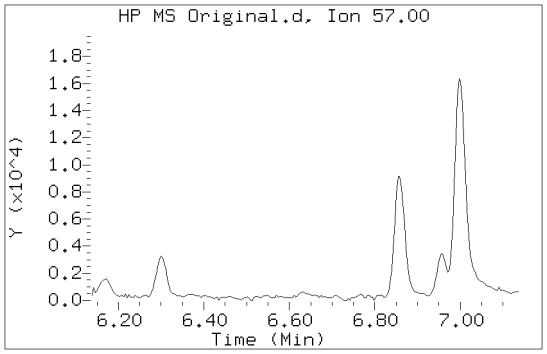



## Epichlorohydrin (106-89-8)

Reason Code:

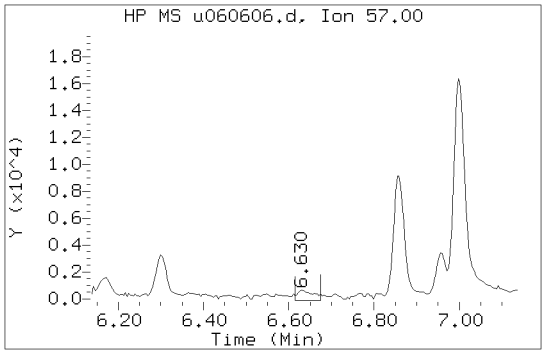
**BEFORE**

MASS
57
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



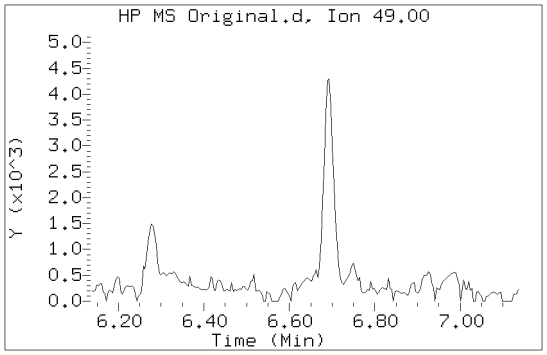

**AFTER**

MASS
57
AREA
2028
HEIGHT
746
21-Jun-2023
13:47
linh
pha



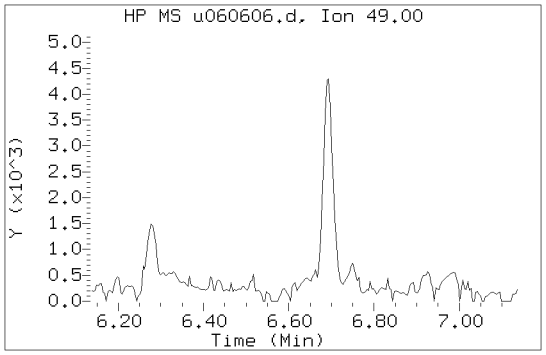

**BEFORE**

MASS
49
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
49
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

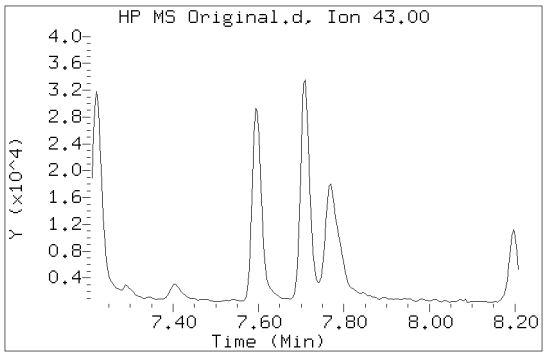



## n-Butyl acetate (123-86-4)

Reason Code:

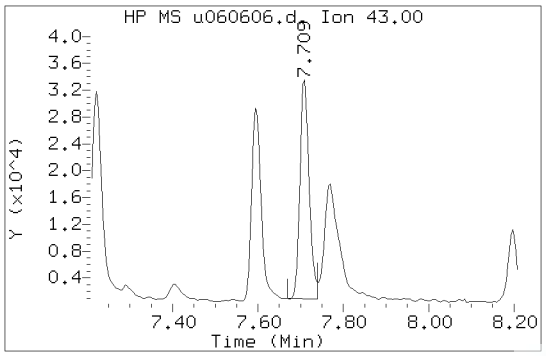
**BEFORE**

MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
43
AREA
50116
HEIGHT
32605
21-Jun-2023
13:47
linh
pha

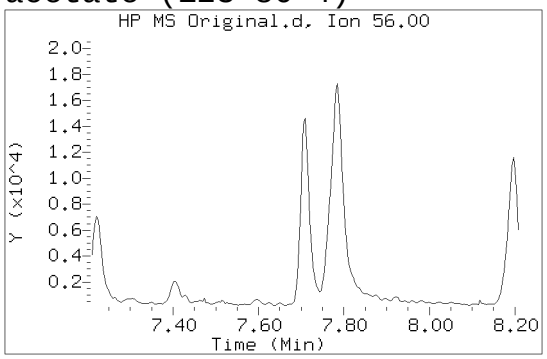


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060606.d
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

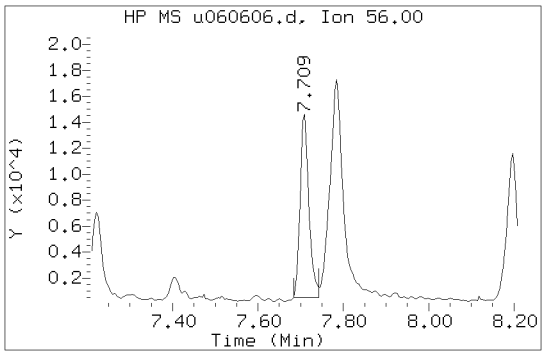
## n-Butyl acetate (123-86-4)

Reason Code:

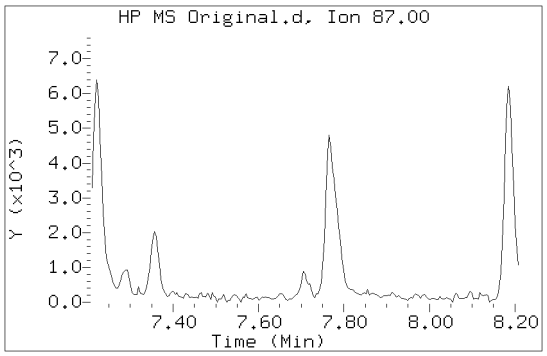
BEFORE
MASS
56
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



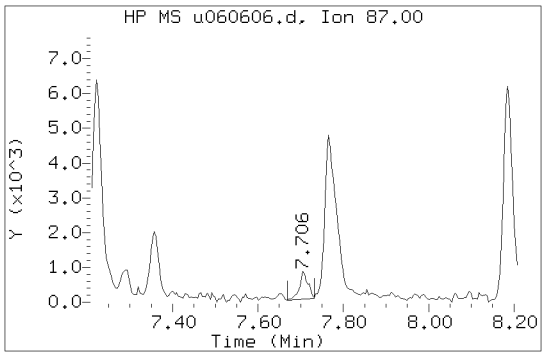

AFTER
MASS
56
AREA
20725
HEIGHT
14102
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
87
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



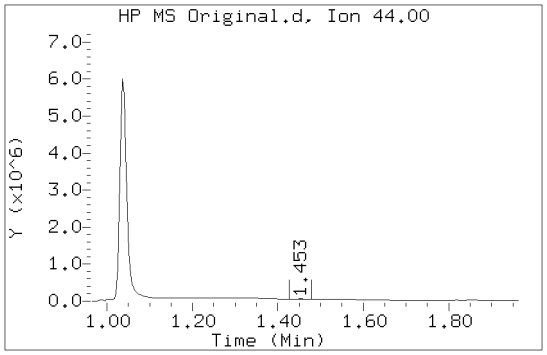

AFTER
MASS
87
AREA
1088
HEIGHT
786
21-Jun-2023
13:47
linh
pha



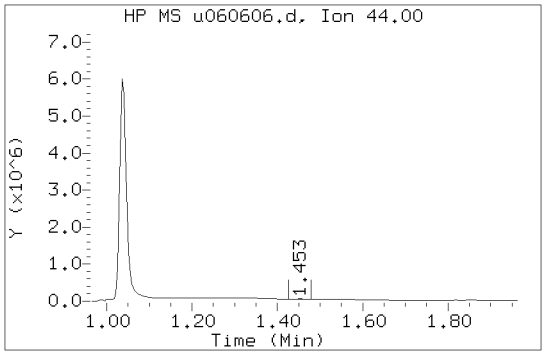

## Acetaldehyde (75-07-0)

Reason Code:

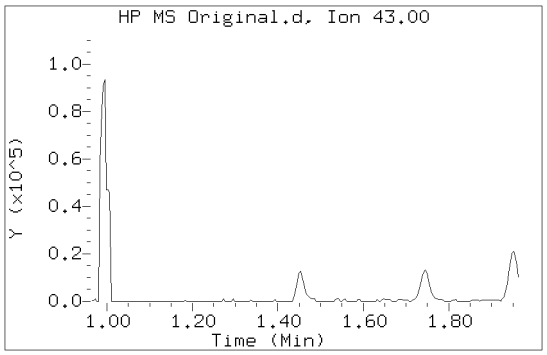
BEFORE
MASS
44
AREA
14773
HEIGHT
16936
08-Jun-2023
14:56
linh
pham



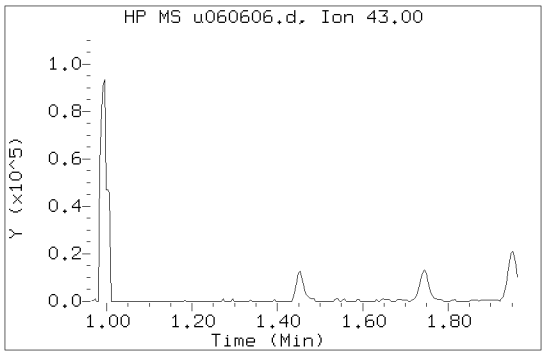

AFTER
MASS
44
AREA
14773
HEIGHT
16936
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




AFTER
MASS
43
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



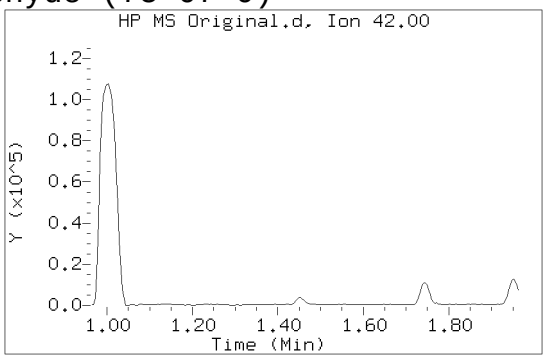
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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

## Acetaldehyde (75-07-0)

Reason Code:

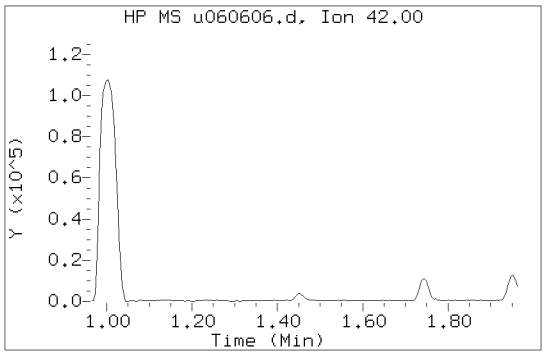
**BEFORE**

MASS
42
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
42
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

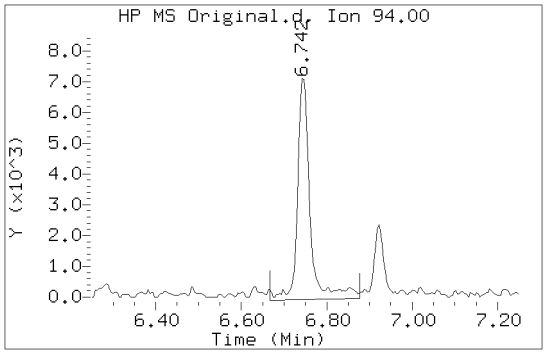



## Dimethyl Disulfide (624-92-0)

Reason Code:

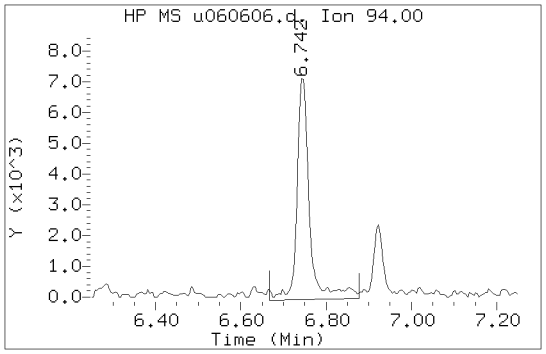
**BEFORE**

MASS
94
AREA
15263
HEIGHT
7177
08-Jun-2023
14:56
linh
pham



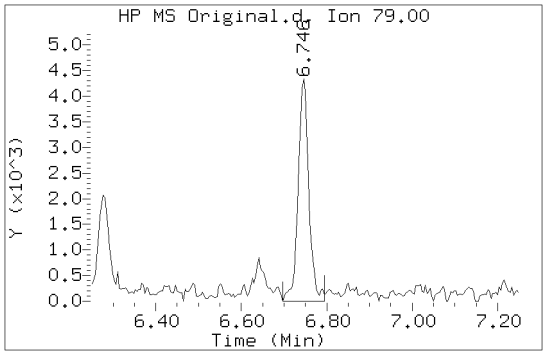

**AFTER**

MASS
94
AREA
15263
HEIGHT
7177
21-Jun-2023
13:47
linh
pha



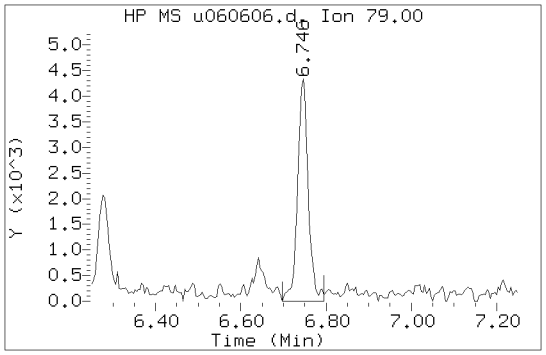

**BEFORE**

MASS
79
AREA
7740
HEIGHT
4338
08-Jun-2023
14:56
linh
pham



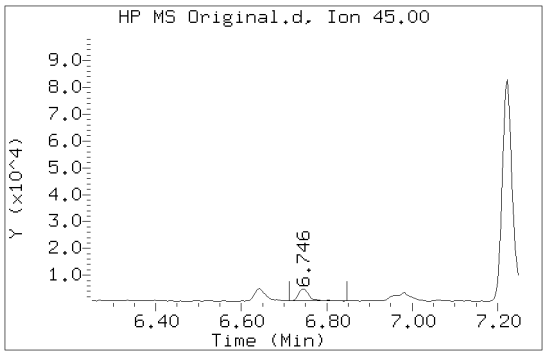

**AFTER**

MASS
79
AREA
7740
HEIGHT
4338
21-Jun-2023
13:47
linh
pha



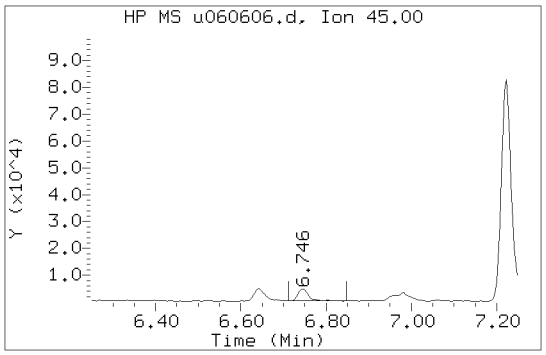

**BEFORE**

MASS
45
AREA
8050
HEIGHT
4392
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
45
AREA
8050
HEIGHT
4392
21-Jun-2023
13:47
linh
pha

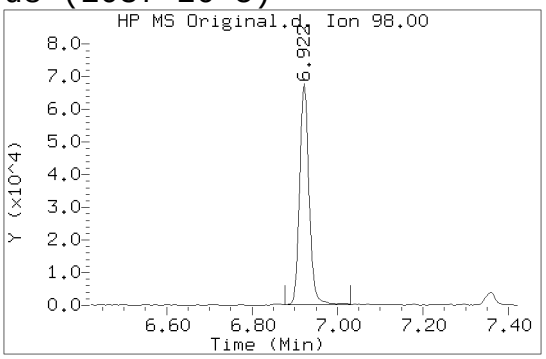


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InstruID : VOA9.i
LabSampID : VSTD005

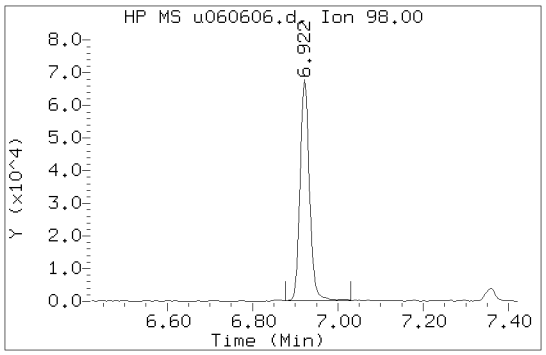
Toluene-d8 (2037-26-5)

Reason Code:

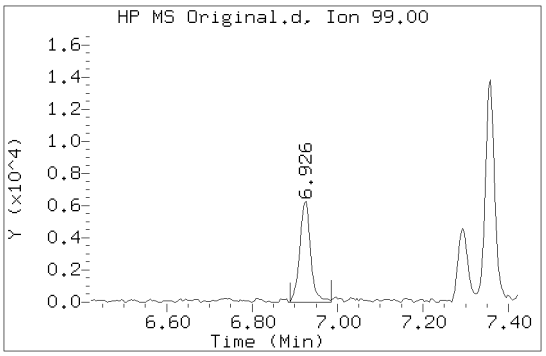
BEFORE
MASS
98
AREA
106553
HEIGHT
67651
08-Jun-2023
14:56
linh
pham



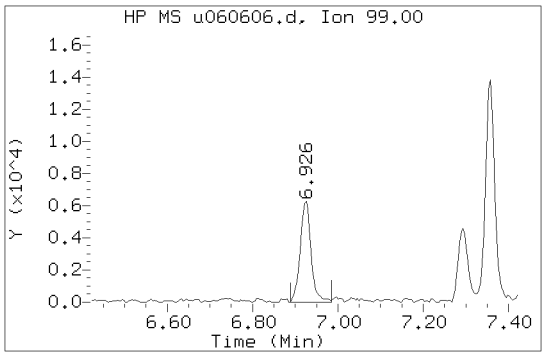

AFTER
MASS
98
AREA
106553
HEIGHT
67651
21-Jun-2023
13:47
linh
pha



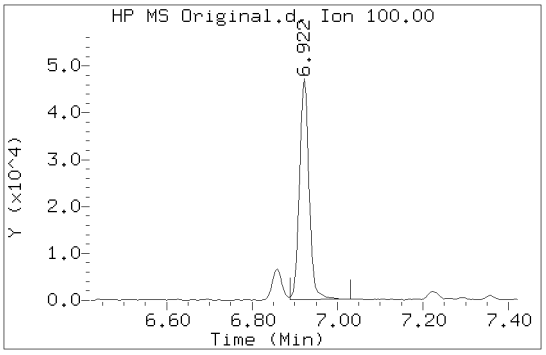

BEFORE
MASS
99
AREA
11406
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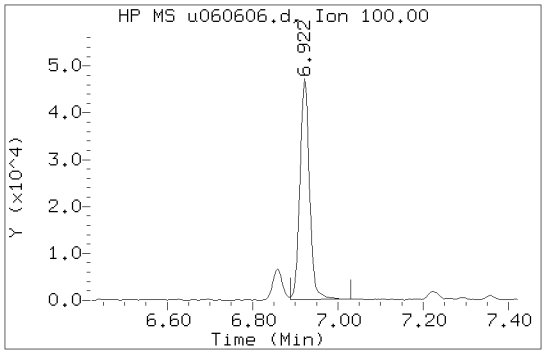

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AFTER
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060607.D Page 1
Report Date: 21-Jun-2023 13:47

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060607.D
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Inj Date : 06-JUN-2023 13:28
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD001;VSTD001;1;3;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 13:28 Cal File: U060607.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * | 1 Pentafluorobenzene | 168 | 4.815 | 4.815 | (1.000) | 679602 | 50.0000 | |
| | 2 Dichlorodifluoromethane | 85 | 1.160 | 1.160 | (0.241) | 5058 | 1.00000 | 0.88(a) |
| | 5 Vinyl Chloride | 62 | 1.374 | 1.374 | (0.285) | 5942 | 1.00000 | 0.82(a) |
| | 7 Chloroethane | 64 | 1.696 | 1.696 | (0.352) | 5340 | 1.00000 | 1.10(a) |
| | 8 Trichlorofluoromethane | 101 | 1.891 | 1.891 | (0.393) | 6909 | 1.00000 | 0.83(a) |
| | 11 1,1-Dichloroethene | 96 | 2.330 | 2.330 | (0.484) | 4736 | 1.00000 | 0.91(a) |
| | 15 Iodomethane | 142 | 2.465 | 2.465 | (0.512) | 3593 | 2.00000 | 10.69(TM) |
| | 18 Methyl tert-butyl ether | 73 | 3.076 | 3.076 | (0.639) | 16686 | 1.00000 | 1.05(a) |
| | 19 Carbon Disulfide | 76 | 2.517 | 2.517 | (0.523) | 25547 | 2.00000 | 1.85(a) |
| | 20 trans-1,2-Dichloroethene | 96 | 3.053 | 3.053 | (0.634) | 5007 | 1.00000 | 0.89(a) |
| | 22 1,1-Dichloroethane | 63 | 3.514 | 3.514 | (0.730) | 11574 | 1.00000 | 1.08(a) |
| | 24 2-Butanone | 43 | 4.272 | 4.272 | (0.887) | 7341 | 2.00000 | 2.36(aM) |
| | 26 2,2-Dichloropropane | 77 | 4.174 | 4.174 | (0.867) | 6247 | 1.00000 | 1.27(a) |
| | 27 cis-1,2-Dichloroethene | 96 | 4.189 | 4.189 | (0.870) | 6668 | 1.00000 | 0.99(a) |
| | 28 Chloroform | 83 | 4.571 | 4.571 | (0.949) | 10748 | 1.00000 | 0.96(a) |
| | 29 Bromochloromethane | 128 | 4.474 | 4.474 | (0.929) | 4161 | 1.00000 | 1.10(a) |
| $ | 30 Dibromofluoromethane | 113 | 4.748 | 4.748 | (0.986) | 5853 | 1.00000 | 0.71(a) |
| | 31 1,1,1-Trichloroethane | 97 | 4.740 | 4.740 | (0.984) | 7815 | 1.00000 | 0.92(a) |
| | 32 1,1-Dichloropropene | 75 | 4.924 | 4.924 | (0.887) | 7674 | 1.00000 | 1.04(a) |
| | 33 1,2-Dichloroethane | 62 | 5.179 | 5.179 | (0.933) | 8428 | 1.00000 | 0.97(a) |
| | 34 Carbon Tetrachloride | 117 | 4.905 | 4.905 | (0.883) | 5676 | 1.00000 | 0.84(a) |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| $ | 35 | 1,2-Dichloroethane-d4 | 65 | 5.096 | 5.096 (1.058) | 6027 | 1.00000 | 0.30(a) |
| * | 36 | 1,4-Difluorobenzene | 114 | 5.554 | 5.554 (1.000) | 1002093 | 50.0000 | |

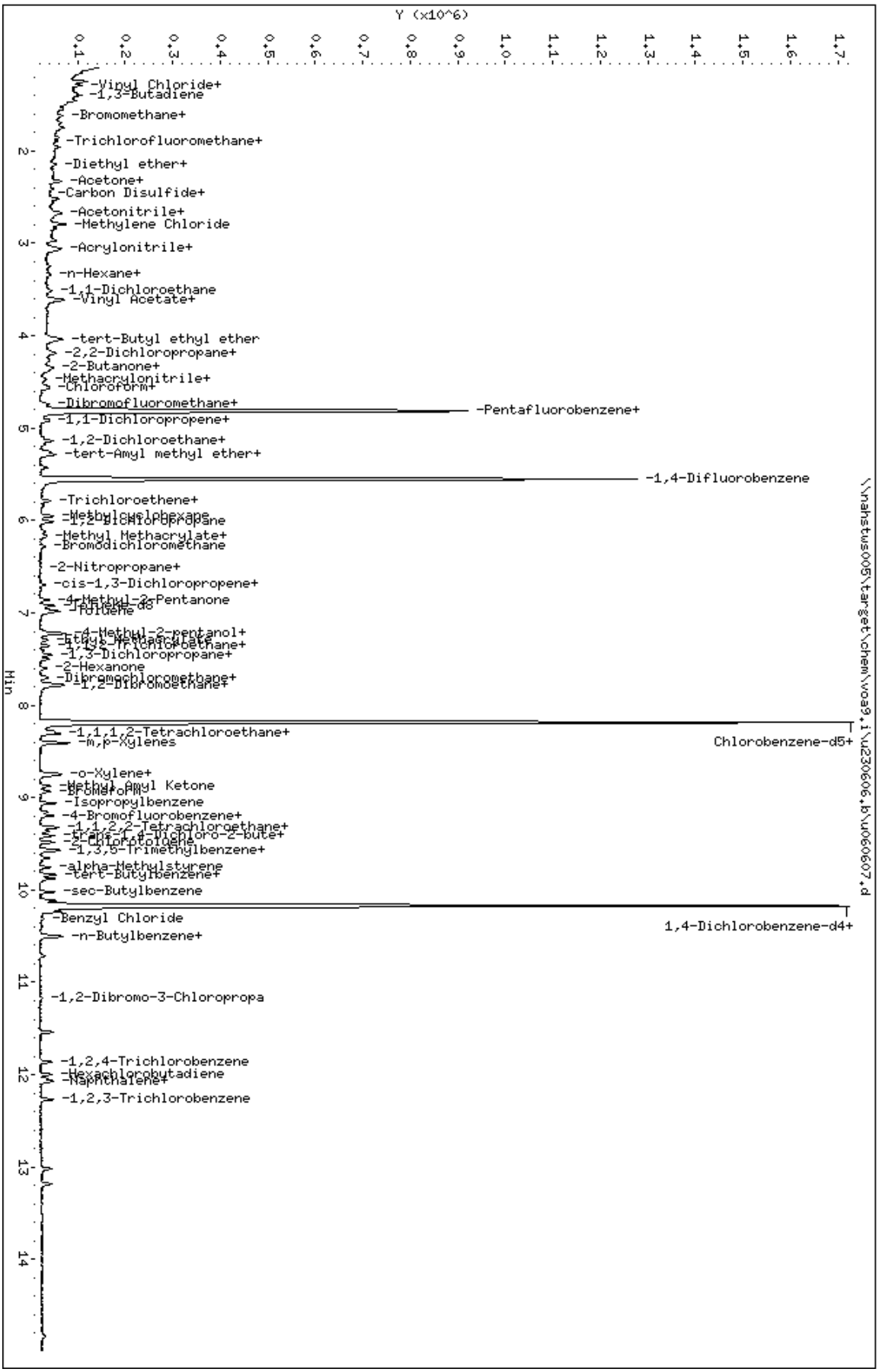
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 37 Benzene | 78 | 5.137 | 5.137 | (0.925) | 21926 | 1.00000 | 0.90(a) |
| | 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.043) | 7055 | 1.00000 | 1.00(a) |
| | 39 Bromodichloromethane | 83 | 6.277 | 6.277 | (1.130) | 6686 | 1.00000 | 0.88(a) |
| | 42 1,2-Dichloropropane | 63 | 6.011 | 6.011 | (1.082) | 6571 | 1.00000 | 1.01(a) |
| | 44 Dibromomethane | 93 | 6.120 | 6.120 | (1.102) | 4245 | 1.00000 | 1.03(a) |
| | 45 4-Methyl-2-Pentanone | 43 | 6.858 | 6.858 | (0.838) | 12749 | 2.00000 | 1.87(a) |
| | 46 cis-1,3-Dichloropropene | 75 | 6.697 | 6.697 | (1.206) | 6985 | 1.00000 | 2.57(a) |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 934282 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.922 | (0.846) | 18686 | 1.00000 | 0.88(a) |
| | 50 Toluene | 91 | 6.982 | 6.982 | (0.853) | 24364 | 1.00000 | 0.96(a) |
| | 51 trans-1,3-Dichloropropene | 75 | 7.199 | 7.199 | (1.296) | 5962 | 1.00000 | 2.69(aM) |
| | 52 2-Hexanone | 43 | 7.597 | 7.597 | (0.928) | 10155 | 2.00000 | 2.14(a) |
| | 53 1,1,2-Trichloroethane | 83 | 7.357 | 7.357 | (0.899) | 6320 | 1.00000 | 1.19(a) |
| | 54 1,3-Dichloropropane | 76 | 7.499 | 7.499 | (0.916) | 10678 | 1.00000 | 0.99(a) |
| | 55 Dibromochloromethane | 129 | 7.694 | 7.694 | (0.940) | 4999 | 1.00000 | 0.79(a) |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 6715 | 1.00000 | 1.08(a) |
| | 57 1,2-Dibromoethane | 107 | 7.784 | 7.784 | (0.951) | 6817 | 1.00000 | 1.04(a) |
| | 58 1-Chlorohexane | 55 | 8.196 | 8.196 | (1.476) | 4887 | 1.00000 | 0.94(aM) |
| | 59 Chlorobenzene | 112 | 8.211 | 8.211 | (1.003) | 19148 | 1.00000 | 1.05(a) |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 8.286 | 8.286 | (1.012) | 5664 | 1.00000 | 0.91(a) |
| | 61 Ethylbenzene | 106 | 8.305 | 8.305 | (1.015) | 7997 | 1.00000 | 0.95(a) |
| | 62 m,p-Xylenes | 106 | 8.406 | 8.406 | (1.027) | 17600 | 2.00000 | 1.76(a) |
| | 63 o-Xylene | 106 | 8.747 | 8.747 | (1.069) | 8615 | 1.00000 | 0.87(a) |
| | 64 Styrene | 104 | 8.762 | 8.762 | (1.071) | 12462 | 1.00000 | 0.79(a) |
| | 66 Bromoform | 173 | 8.924 | 8.924 | (1.090) | 3596 | 1.00000 | 0.85(Ta) |
| | 67 Isopropylbenzene | 105 | 9.062 | 9.062 | (1.107) | 21174 | 1.00000 | 0.89(a) |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 9.329 | 9.329 | (0.917) | 9671 | 1.00000 | 1.08(a) |
| $ | 69 4-Bromofluorobenzene | 95 | 9.197 | 9.197 | (1.124) | 8608 | 1.00000 | 0.14(a) |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 472015 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 9.362 | 9.362 | (0.920) | 7255 | 1.00000 | 0.92(a) |
| | 73 n-Propylbenzene | 91 | 9.415 | 9.415 | (0.926) | 21667 | 1.00000 | 0.87(a) |
| | 74 Bromobenzene | 156 | 9.321 | 9.321 | (0.916) | 8241 | 1.00000 | 1.03(a) |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.565 | 9.565 | (0.940) | 16352 | 1.00000 | 0.96(a) |
| | 76 2-Chlorotoluene | 91 | 9.482 | 9.482 | (0.932) | 17404 | 1.00000 | 0.99(a) |
| | 77 4-Chlorotoluene | 91 | 9.580 | 9.580 | (0.942) | 18186 | 1.00000 | 0.94(a) |
| | 78 tert-Butylbenzene | 119 | 9.838 | 9.838 | (0.967) | 15445 | 1.00000 | 0.92(a) |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.880 | 9.880 | (0.971) | 18732 | 1.00000 | 1.05(a) |
| | 81 sec-Butylbenzene | 105 | 10.022 | 10.022 | (0.985) | 19975 | 1.00000 | 0.94(a) |
| | 82 p-Isopropyltoluene | 119 | 10.146 | 10.146 | (0.997) | 16778 | 1.00000 | 0.94(a) |
| | 83 1,3-Dichlorobenzene | 146 | 10.116 | 10.116 | (0.994) | 13868 | 1.00000 | 1.02(a) |
| | 84 1,4-Dichlorobenzene | 146 | 10.191 | 10.191 | (1.002) | 16169 | 1.00000 | 1.12(a) |
| | 88 1,2-Dichlorobenzene | 146 | 10.506 | 10.506 | (1.033) | 14921 | 1.00000 | 1.10(a) |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 11.165 | 11.165 | (1.098) | 1239 | 1.00000 | 0.95(aM) |
| | 90 1,2,4-Trichlorobenzene | 180 | 11.859 | 11.859 | (1.166) | 9686 | 1.00000 | 1.03(a) |
| | 93 1,2,3-Trichlorobenzene | 180 | 12.271 | 12.271 | (1.206) | 9603 | 1.00000 | 1.05(a) |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 11675 | 2.00000 | 1.88(a) |
| M | 95 Xylenes (total) | 106 | | | | 26215 | 3.00000 | 2.64(a) |
| | 141 Cyclohexane | 56 | 4.796 | 4.796 | (0.996) | 7781 | 1.00000 | 1.14(aM) |
| | 138 Freon TF | 101 | 2.330 | 2.330 | (0.484) | 3752 | 1.00000 | 0.82(a) |
| | 140 1,3-Butadiene | 54 | 1.400 | 1.400 | (0.291) | 5632 | 1.00000 | 0.87(a) |
| | 146 Methyl Acetate | 43 | 2.712 | 2.712 | (0.563) | 6421 | 1.00000 | 1.12(aM) |
| | 148 Tert-Butyl alcohol | 59 | 2.967 | 2.967 | (0.616) | 16016 | 20.0000 | 20.67(aM) |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 72 | trans-1,4-Dichloro-2-butene | 53 | 9.381 | 9.381 (1.146) | 1083 | 1.00000 | 1.00 |
| 12 | Isobutyl Alcohol | 43 | 5.291 | 5.291 (1.099) | 18069 | 20.0000 | 20.46(M) |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| 13 Acetonitrile | 39 | 2.667 | 2.667 | (0.554) | 7477 | 10.0000 | 10.16 |
| 40 Methyl Methacrylate | 41 | 6.161 | 6.161 | (1.279) | 5203 | 1.00000 | 0.89(a) |
| 4 Propionitrile | 54 | 4.343 | 4.343 | (0.902) | 10588 | 10.0000 | 10.78(aM) |
| 136 n-Hexane | 57 | 3.338 | 3.338 | (0.693) | 4787 | 1.00000 | 0.97(a) |
| 131 Methyl Acrylate | 55 | 4.365 | 4.365 | (0.907) | 7188 | 1.00000 | 1.00(aM) |
| 200 Dimethyl Disulfide | 94 | 6.742 | 6.742 | (0.824) | 2841 | 1.00000 | 4.92(aM) |
| 166 1,2,3-Trimethylbenzene | 105 | 10.236 | 10.236 | (1.006) | 20474 | 1.00000 | 1.12(a) |
| 164 Dicyclopentadiene | 66 | 10.202 | 10.202 | (1.003) | 29317 | 1.00000 | 1.27(a) |
| 145 alpha-Methylstyrene | 118 | 9.756 | 9.756 | (0.959) | 6428 | 1.00000 | 4.20(a) |
| 156 Diisopropyl ether | 45 | 3.623 | 3.623 | (0.752) | 18372 | 1.00000 | 0.96(a) |
| 151 4-Methyl-2-pentanol | 45 | 7.222 | 7.222 | (1.300) | 29449 | 20.0000 | 19.76 |
| 150 Allyl alcohol | 57 | 3.338 | 3.338 | (0.693) | 4787 | 20.0000 | 20.21 |
| 86 Benzyl Chloride | 91 | 10.311 | 10.311 | (1.260) | 5481 | 1.00000 | 4.38(a) |
| 162 Butyl acrylate | 55 | 8.736 | 8.736 | (1.067) | 10827 | 1.00000 | 0.97(a) |
| 139 Diethyl ether | 59 | 2.142 | 2.142 | (0.445) | 3957 | 1.00000 | 0.86(a) |
| 203 2-Ethylhexyl Acrylate | 55 | 12.043 | 12.043 | (1.184) | 4963 | 1.00000 | 2.84(aM) |
| 134 Cyclohexanone | 55 | 9.156 | 9.156 | (0.900) | 6822 | 20.0000 | 23.31(a) |
| 130 Ethyl Acetate | 43 | 4.272 | 4.272 | (0.887) | 6476 | 1.00000 | 1.06(aMH) |
| 189 n-Butyl acetate | 43 | 7.713 | 7.713 | (0.942) | 10025 | 1.00000 | 0.94(aM) |
| 182 Epichlorohydrin | 57 | 6.656 | 6.656 | (1.198) | 230 | 4.00000 | 12.04(M) |
| 132 n-Butanol | 56 | 5.838 | 5.838 | (1.213) | 4225 | 20.0000 | 21.55(aM) |

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.




Data File: \\nahstws005\target\chem\voa9,i\u230606,b\u060607,d
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Sample Info: VSTD001,VSTD001,1,3
Purge Volume: 5.0
Column phase: DB624

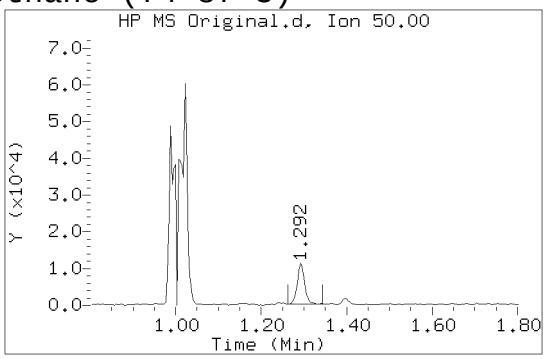
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Operator: PC
Column diameter: 0.18

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Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

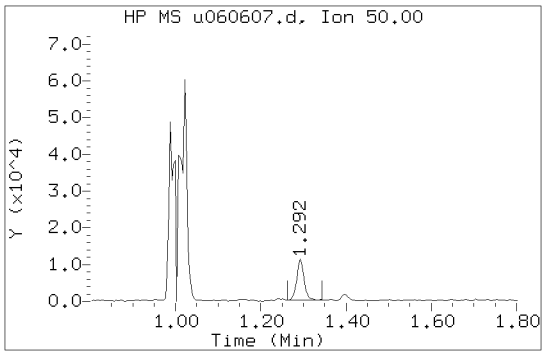
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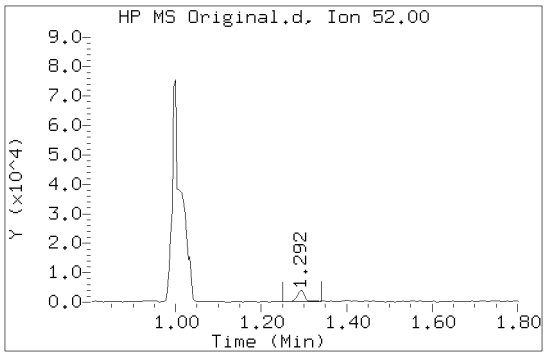
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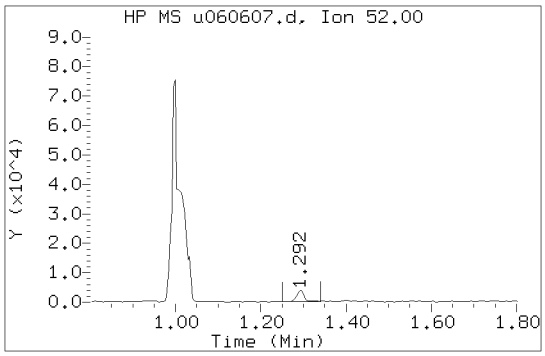

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BEFORE
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08-Jun-2023
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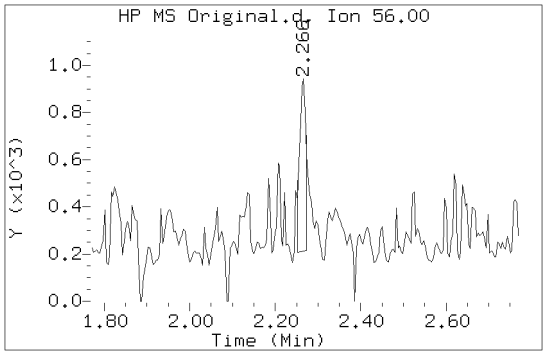

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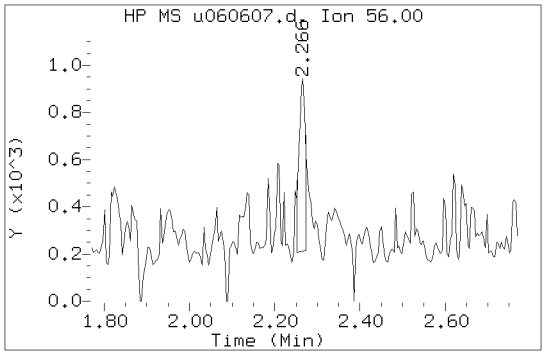

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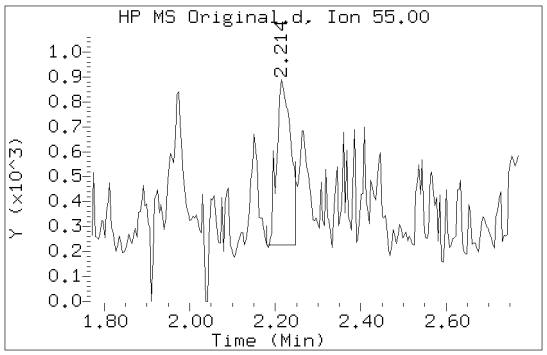
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08-Jun-2023
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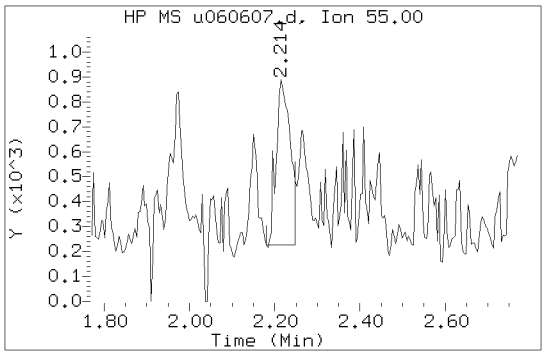

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BEFORE
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AFTER
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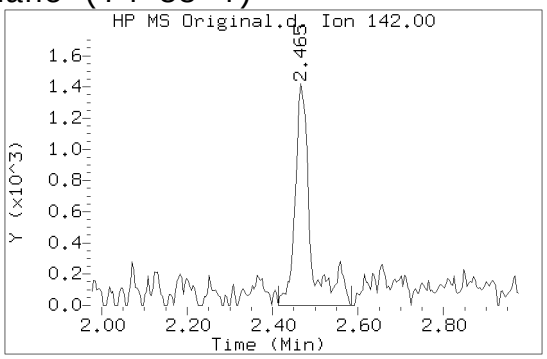


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Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

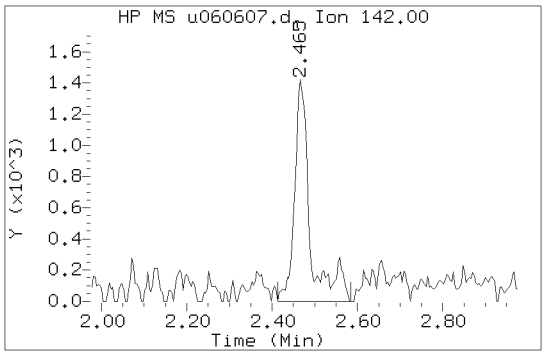
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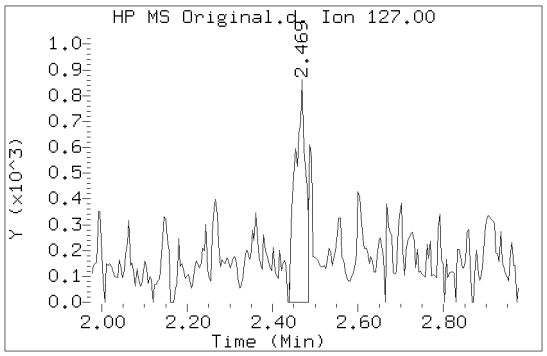
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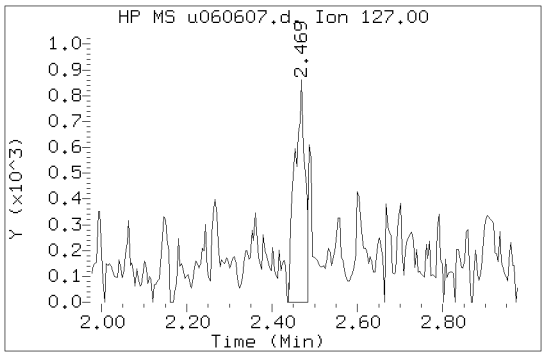

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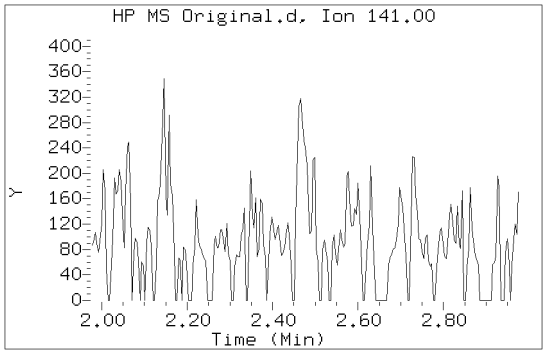

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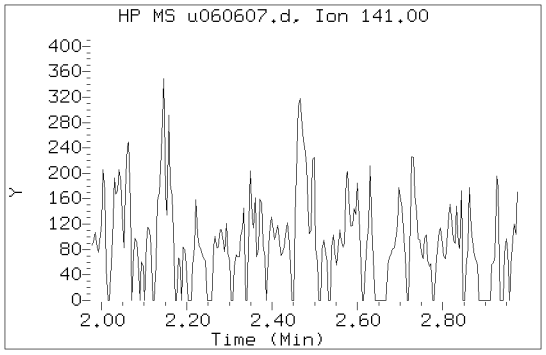

AFTER
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BEFORE
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linh
pham



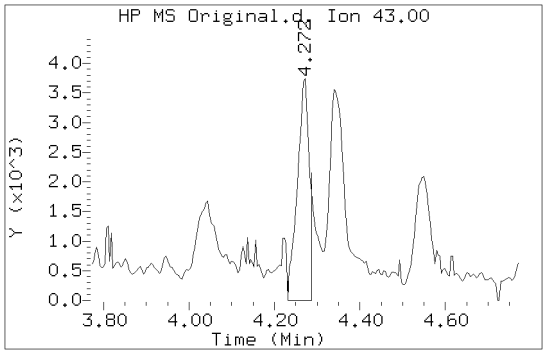

AFTER
MASS
141
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



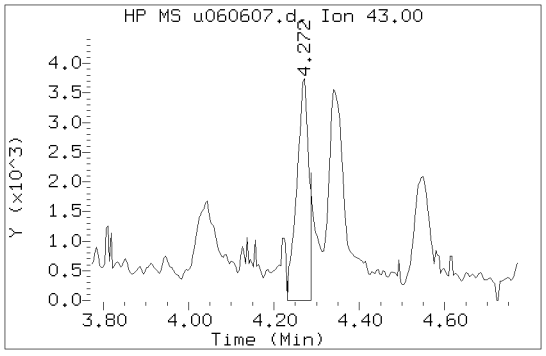

## 2-Butanone (78-93-3)

Reason Code:

BEFORE
MASS
43
AREA
7341
HEIGHT
3739
08-Jun-2023
14:56
linh
pham




AFTER
MASS
43
AREA
7341
HEIGHT
3739
21-Jun-2023
13:47
linh
pha

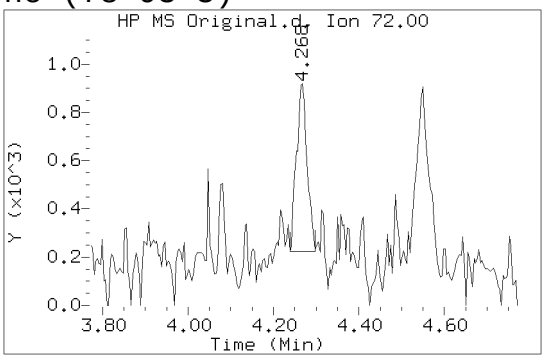


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

## 2-Butanone (78-93-3)

**BEFORE**

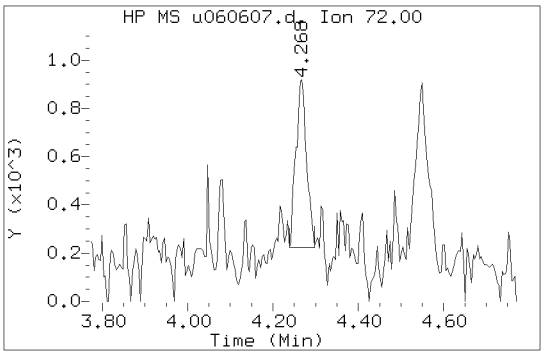
MASS
72
AREA
1240
HEIGHT
697
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
72
AREA
1240
HEIGHT
697
21-Jun-2023
13:47
linh
pha

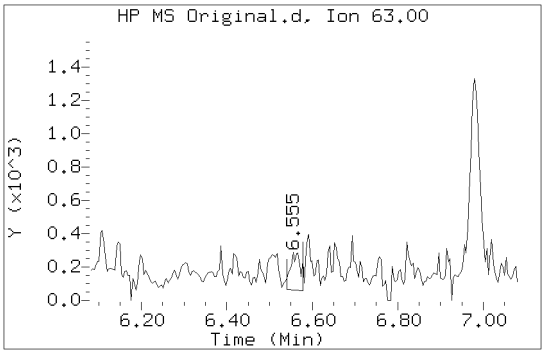
Reason Code:




## 2-Chloroethylvinyl ether (110-75-8)

**BEFORE**

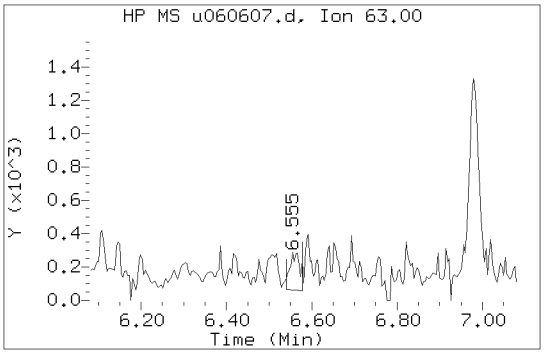
MASS
63
AREA
379
HEIGHT
225
08-Jun-2023
14:56
linh
pham




**AFTER**

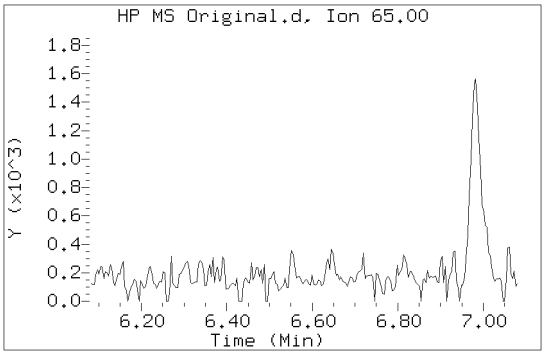
MASS
63
AREA
379
HEIGHT
225
21-Jun-2023
13:47
linh
pha

Reason Code:



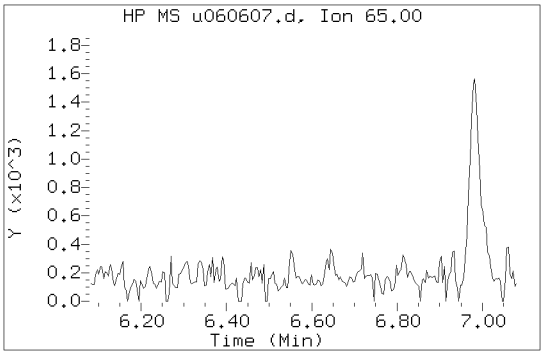

**BEFORE**

MASS
65
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



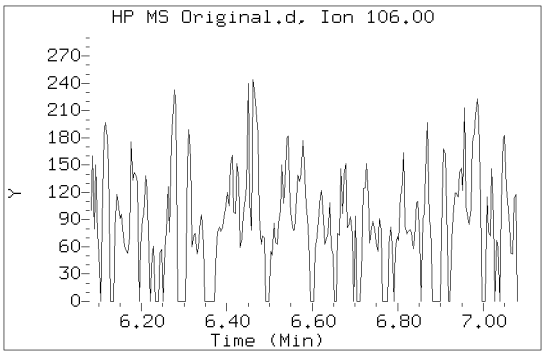

**AFTER**

MASS
65
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



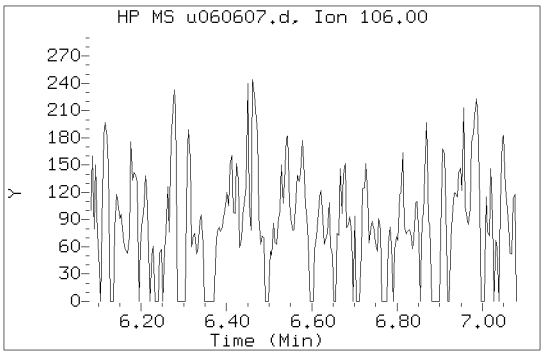

**BEFORE**

MASS
106
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
106
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



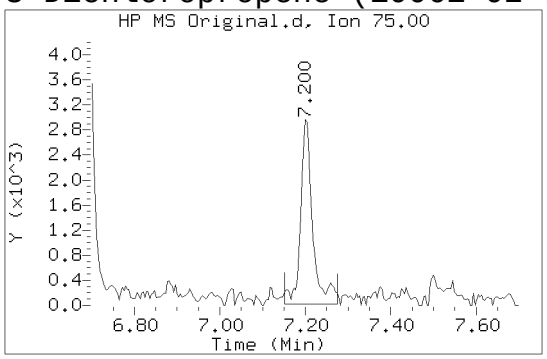
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Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

## trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

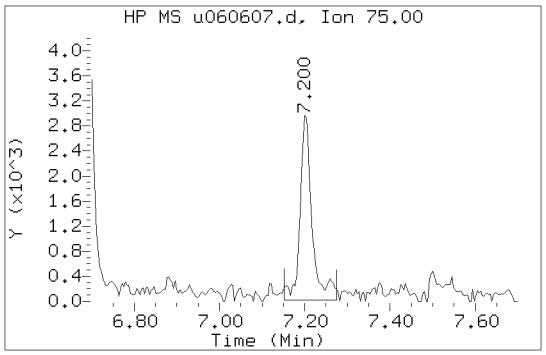
BEFORE

MASS
75
AREA
5962
HEIGHT
2945
08-Jun-2023
14:56
linh
pham



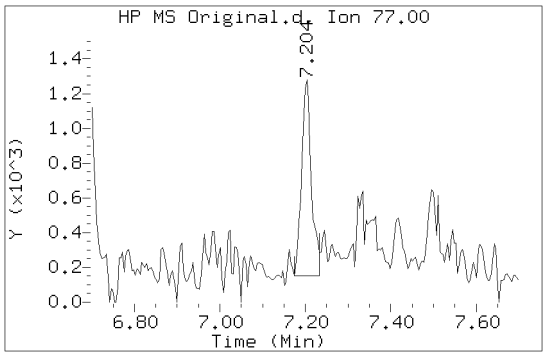

AFTER

MASS
75
AREA
5962
HEIGHT
2945
21-Jun-2023
13:47
linh
pha



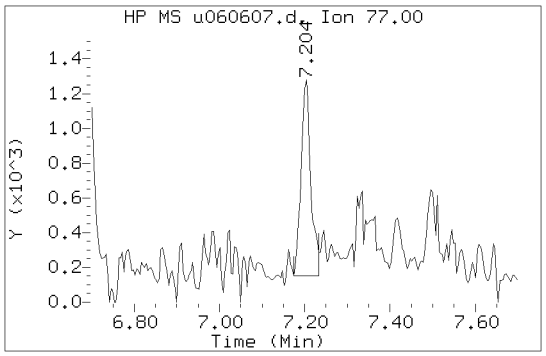

BEFORE

MASS
77
AREA
1844
HEIGHT
1128
08-Jun-2023
14:56
linh
pham



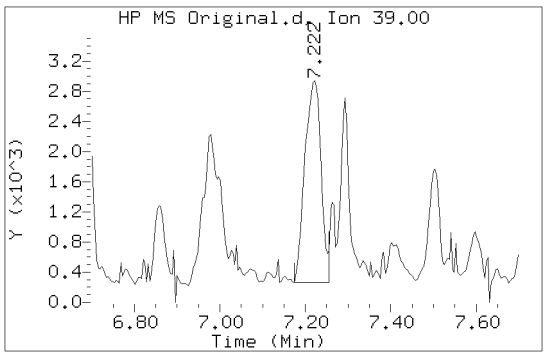

AFTER

MASS
77
AREA
1844
HEIGHT
1128
21-Jun-2023
13:47
linh
pha



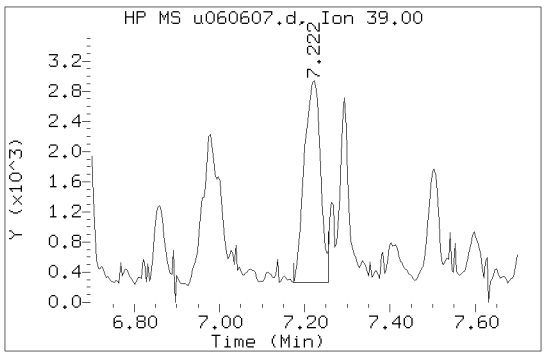

BEFORE

MASS
39
AREA
7143
HEIGHT
2676
08-Jun-2023
14:56
linh
pham




AFTER

MASS
39
AREA
7143
HEIGHT
2676
21-Jun-2023
13:47
linh
pha

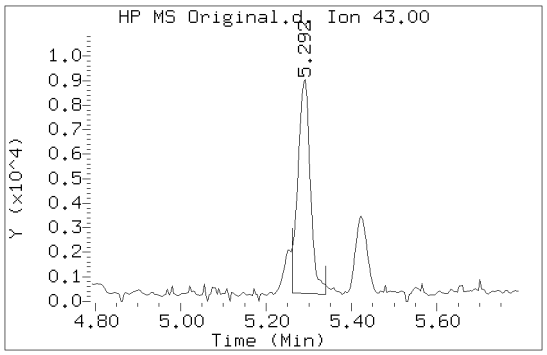



## Isobutyl Alcohol (78-83-1)

Reason Code:

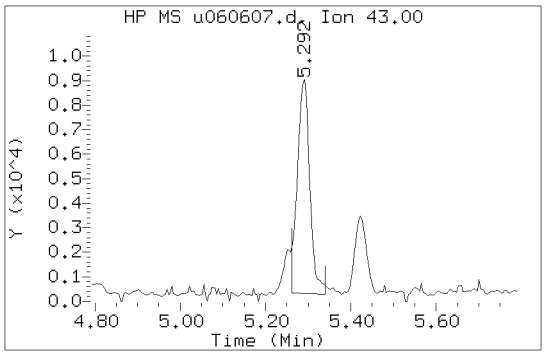
BEFORE

MASS
43
AREA
18069
HEIGHT
8714
08-Jun-2023
14:56
linh
pham




AFTER

MASS
43
AREA
18069
HEIGHT
8714
21-Jun-2023
13:47
linh
pha

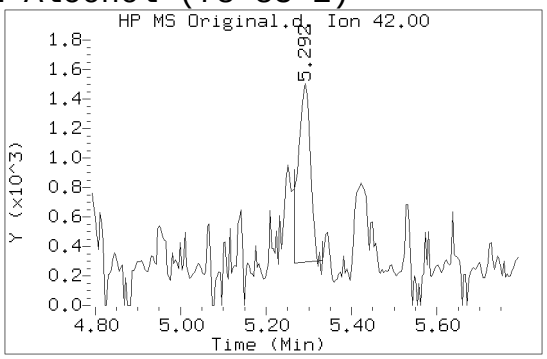


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

## Isobutyl Alcohol (78-83-1)

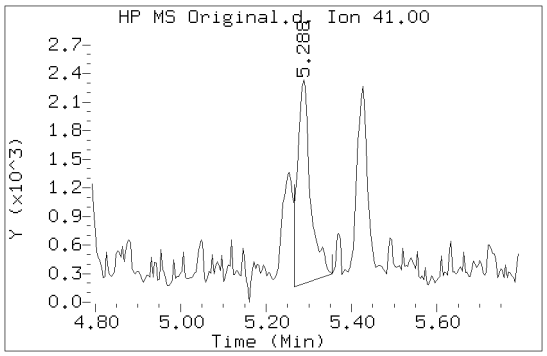
### BEFORE

MASS
42
AREA
2425
HEIGHT
1210
08-Jun-2023
14:56
linh
pham




### BEFORE

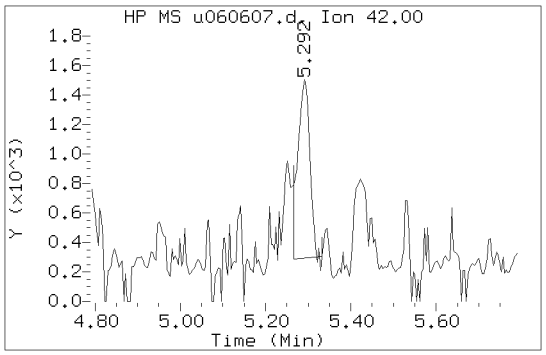
MASS
41
AREA
4613
HEIGHT
2138
08-Jun-2023
14:56
linh
pham




Reason Code:

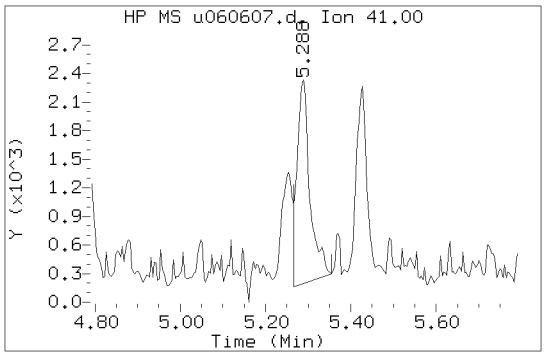
### AFTER

MASS
42
AREA
2425
HEIGHT
1210
21-Jun-2023
13:47
linh
pha




### AFTER

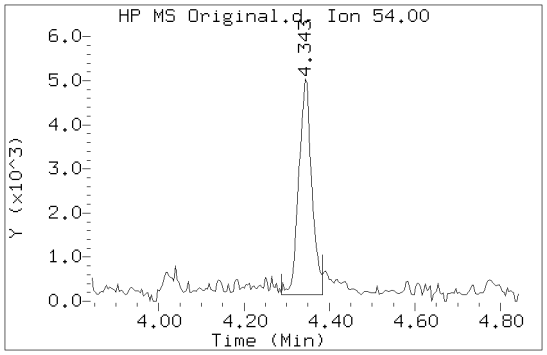
MASS
41
AREA
4613
HEIGHT
2138
21-Jun-2023
13:47
linh
pha




## Propionitrile (107-12-0)

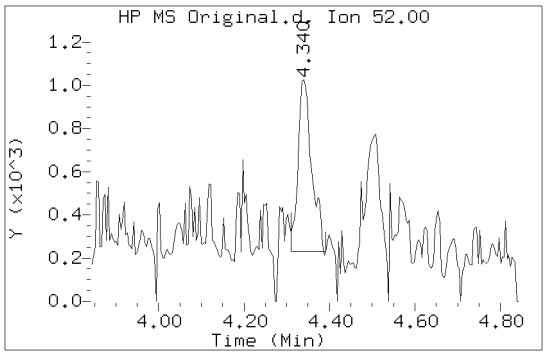
### BEFORE

MASS
54
AREA
10588
HEIGHT
4897
08-Jun-2023
14:56
linh
pham




### BEFORE

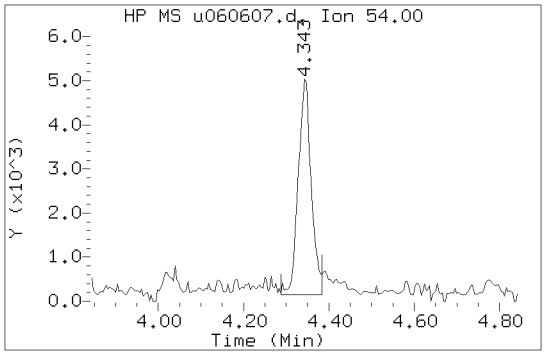
MASS
52
AREA
1789
HEIGHT
794
08-Jun-2023
14:56
linh
pham




Reason Code:

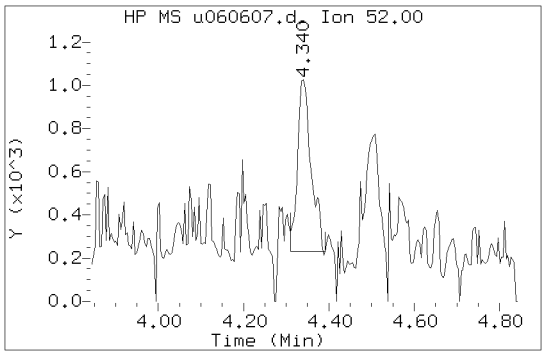
### AFTER

MASS
54
AREA
10588
HEIGHT
4897
21-Jun-2023
13:47
linh
pha




### AFTER

MASS
52
AREA
1789
HEIGHT
794
21-Jun-2023
13:47
linh
pha



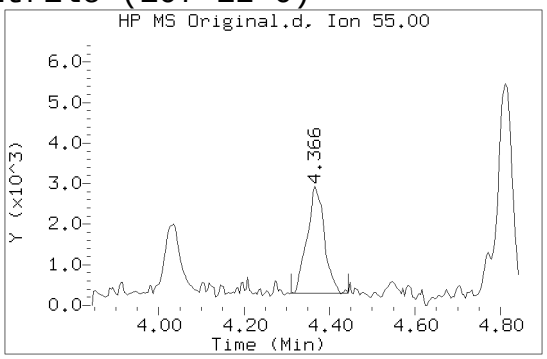
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

## Propionitrile (107-12-0)

Reason Code:

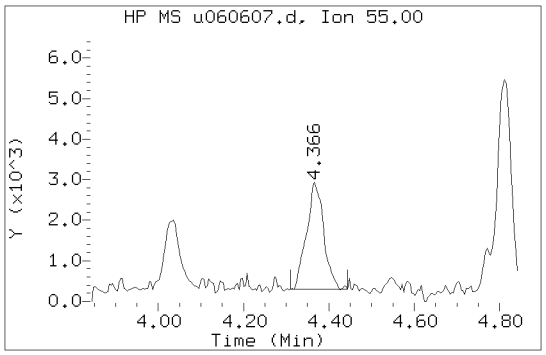
**BEFORE**

MASS
55
AREA
7500
HEIGHT
2642
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
55
AREA
7500
HEIGHT
2642
21-Jun-2023
13:47
linh
pha

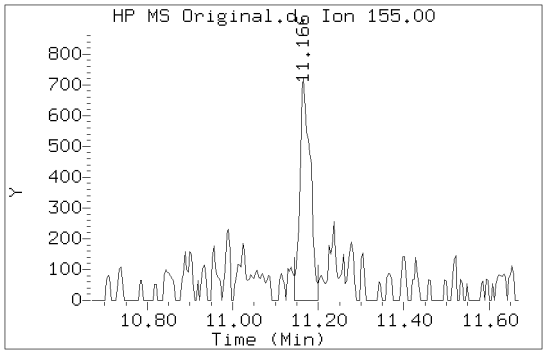



## 1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

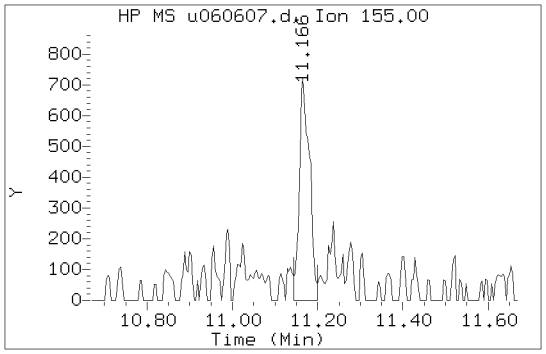
**BEFORE**

MASS
155
AREA
1239
HEIGHT
719
08-Jun-2023
14:56
linh
pham



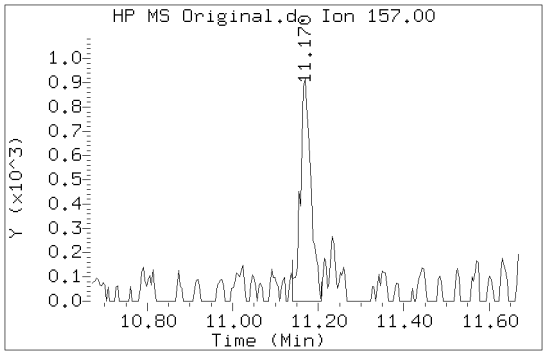

**AFTER**

MASS
155
AREA
1239
HEIGHT
719
21-Jun-2023
13:47
linh
pha



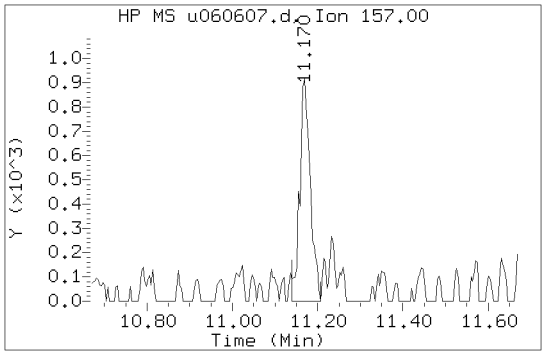

**BEFORE**

MASS
157
AREA
1601
HEIGHT
916
08-Jun-2023
14:56
linh
pham



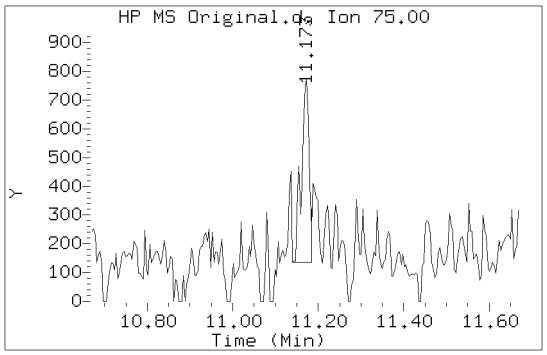

**AFTER**

MASS
157
AREA
1601
HEIGHT
916
21-Jun-2023
13:47
linh
pha



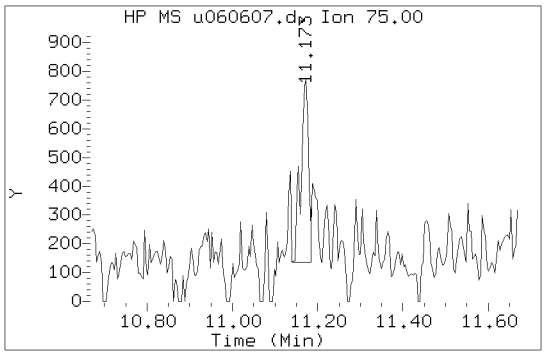

**BEFORE**

MASS
75
AREA
809
HEIGHT
634
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
75
AREA
809
HEIGHT
634
21-Jun-2023
13:47
linh
pha

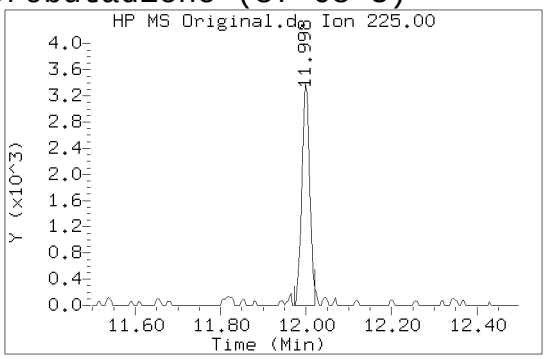


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Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

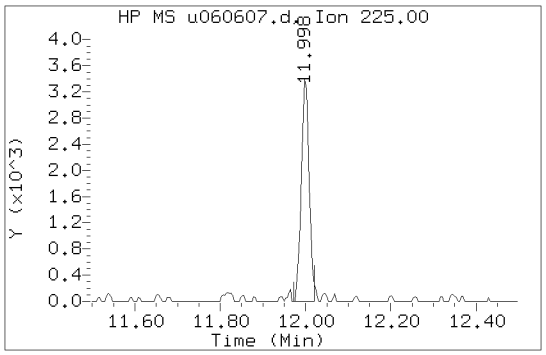
## Hexachlorobutadiene (87-68-3)

Reason Code:

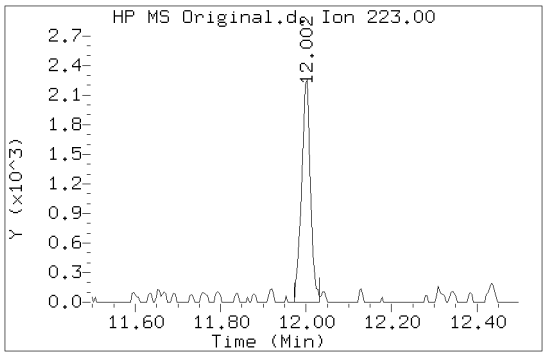
BEFORE
MASS
225
AREA
4470
HEIGHT
3386
08-Jun-2023
14:56
linh
pham



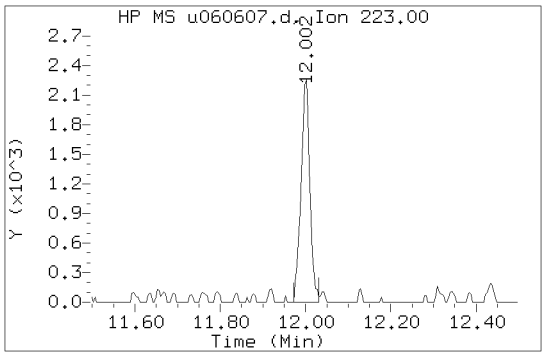

AFTER
MASS
225
AREA
4470
HEIGHT
3386
21-Jun-2023
13:47
linh
pha



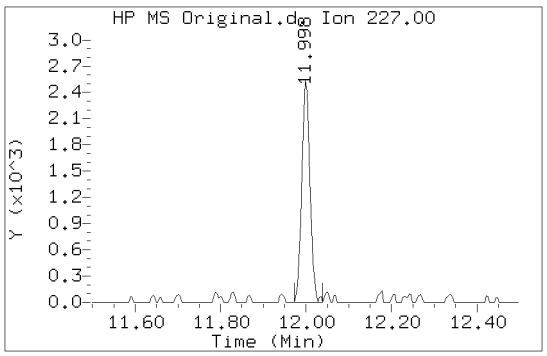

BEFORE
MASS
223
AREA
3352
HEIGHT
2254
08-Jun-2023
14:56
linh
pham



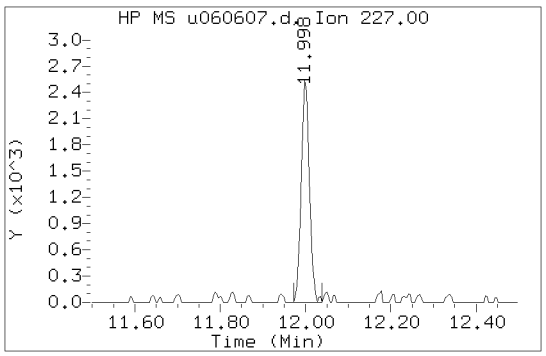

AFTER
MASS
223
AREA
3352
HEIGHT
2254
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
227
AREA
3477
HEIGHT
2534
08-Jun-2023
14:56
linh
pham



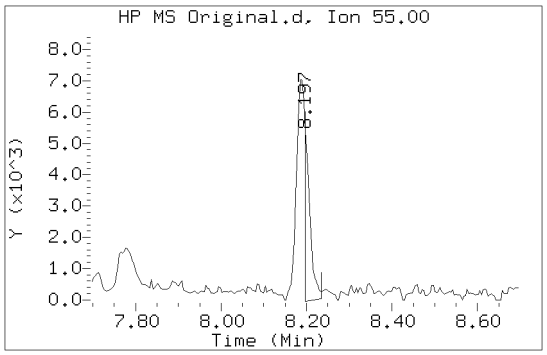

AFTER
MASS
227
AREA
3477
HEIGHT
2534
21-Jun-2023
13:47
linh
pha



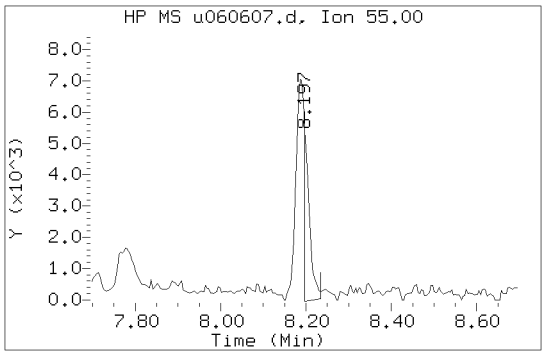

## 1-Chlorohexane (544-10-5)

Reason Code:

BEFORE
MASS
55
AREA
4887
HEIGHT
5444
08-Jun-2023
14:56
linh
pham




AFTER
MASS
55
AREA
4887
HEIGHT
5444
21-Jun-2023
13:47
linh
pha

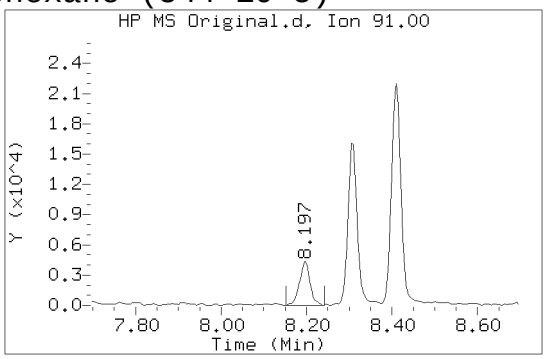


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

## 1-Chlorohexane (544-10-5)

**BEFORE**

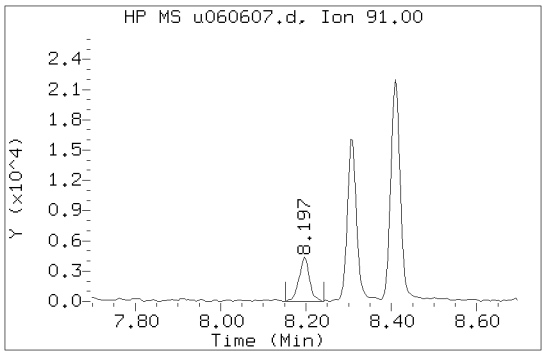
MASS
91
AREA
7655
HEIGHT
4415
08-Jun-2023
14:56
linh
pham




Reason Code:

**AFTER**

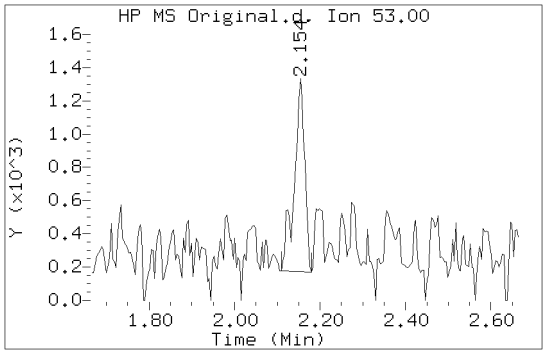
MASS
91
AREA
7655
HEIGHT
4415
21-Jun-2023
13:47
linh
pha




## Chloroprene (126-99-8)

**BEFORE**

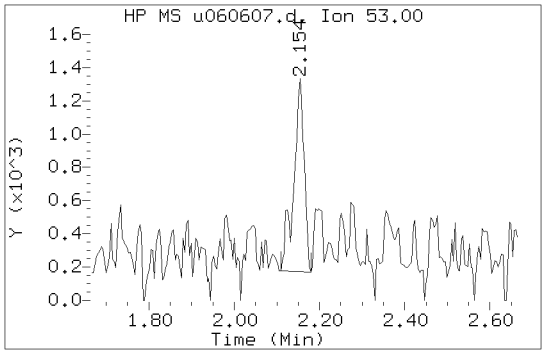
MASS
53
AREA
2027
HEIGHT
1160
08-Jun-2023
14:56
linh
pham




Reason Code:

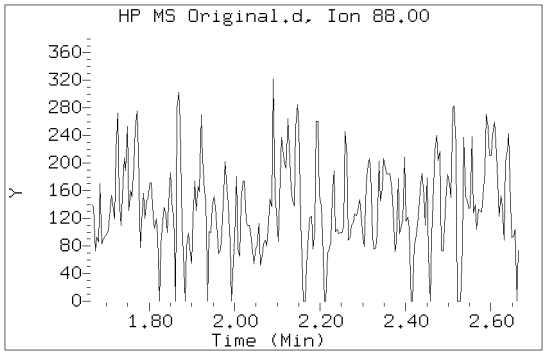
**AFTER**

MASS
53
AREA
2027
HEIGHT
1160
21-Jun-2023
13:47
linh
pha



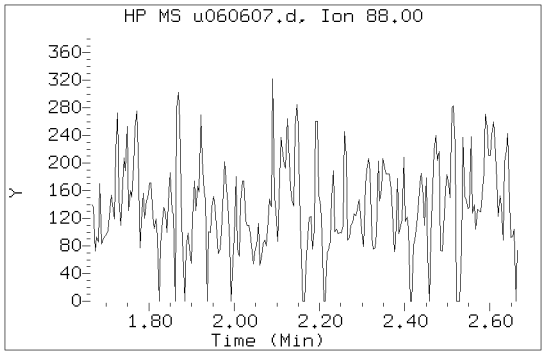

**BEFORE**

MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

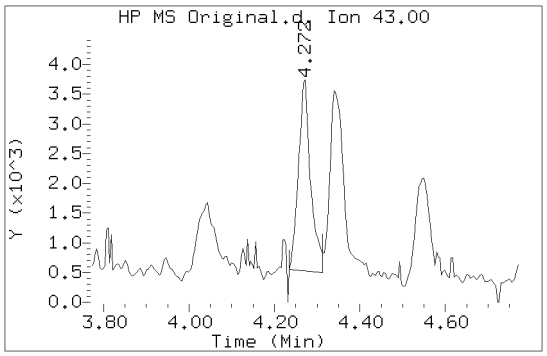
MASS
88
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha




## Ethyl Acetate (141-78-6)

**BEFORE**

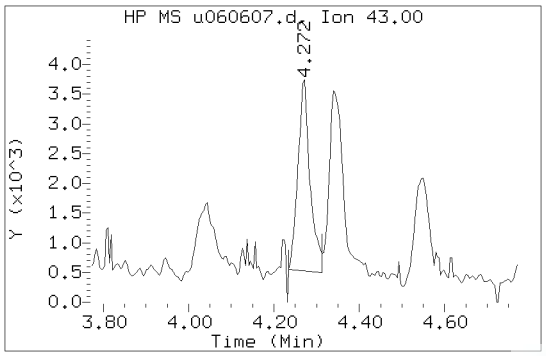
MASS
43
AREA
6476
HEIGHT
3212
08-Jun-2023
14:56
linh
pham




Reason Code:

**AFTER**

MASS
43
AREA
6476
HEIGHT
3212
21-Jun-2023
13:47
linh
pha



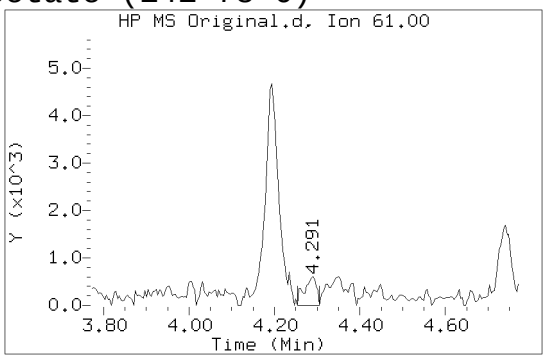
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

## Ethyl Acetate (141-78-6)

Reason Code:

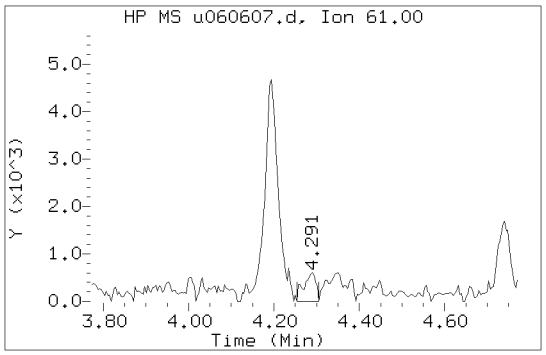
**BEFORE**

MASS
61
AREA
1204
HEIGHT
613
08-Jun-2023
14:56
linh
pham



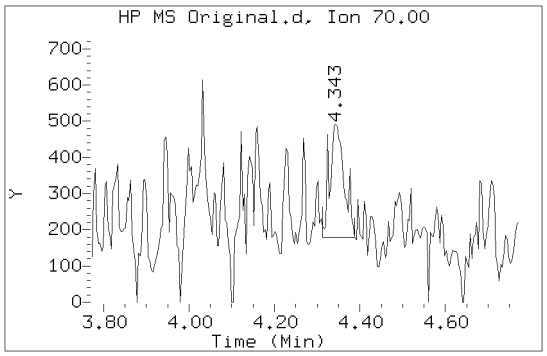

**AFTER**

MASS
61
AREA
1204
HEIGHT
613
21-Jun-2023
13:47
linh
pha



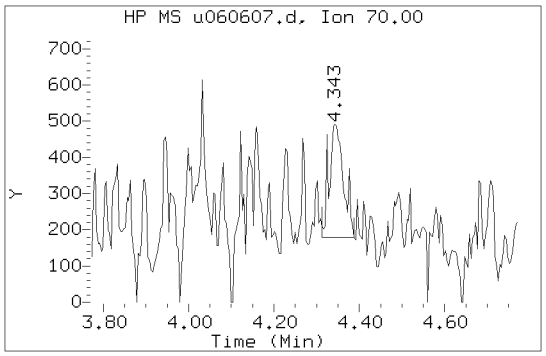

**BEFORE**

MASS
70
AREA
720
HEIGHT
311
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
70
AREA
720
HEIGHT
311
21-Jun-2023
13:47
linh
pha

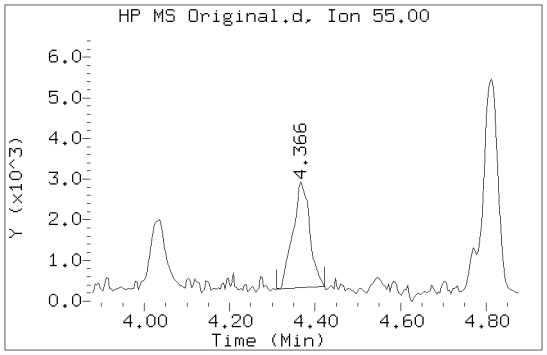



## Methyl Acrylate (96-33-3)

Reason Code:

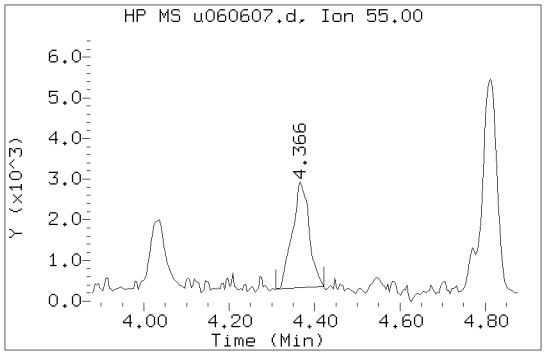
**BEFORE**

MASS
55
AREA
7188
HEIGHT
2604
08-Jun-2023
14:56
linh
pham



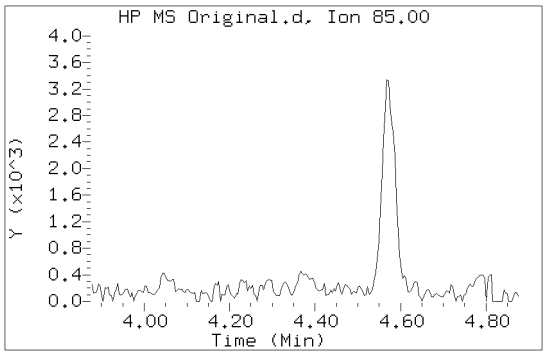

**AFTER**

MASS
55
AREA
7188
HEIGHT
2604
21-Jun-2023
13:47
linh
pha



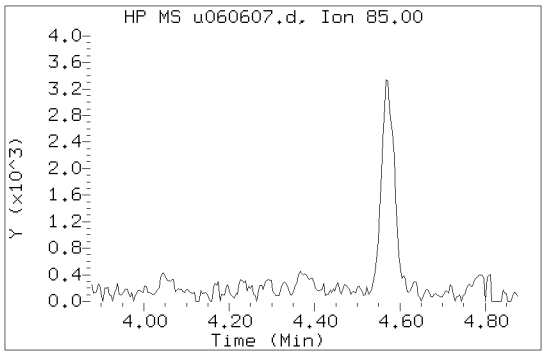

**BEFORE**

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



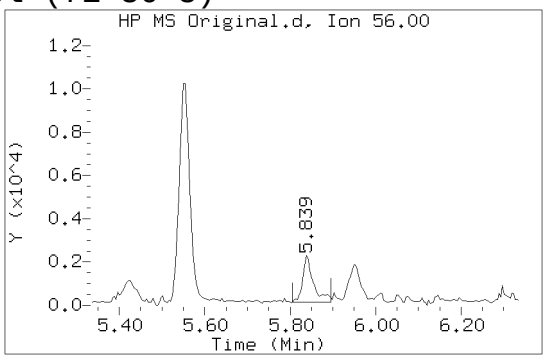
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

## n-Butanol (71-36-3)

Reason Code:

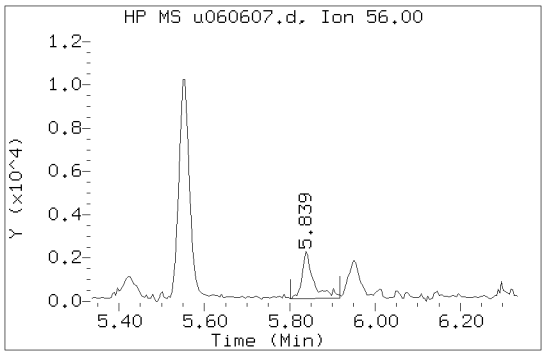
**BEFORE**

MASS
56
AREA
3831
HEIGHT
2179
08-Jun-2023
14:56
linh
pham



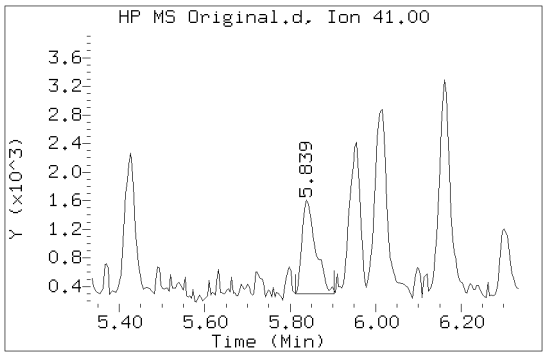

**AFTER**

MASS
56
AREA
4225
HEIGHT
2201
21-Jun-2023
13:47
linh
pha



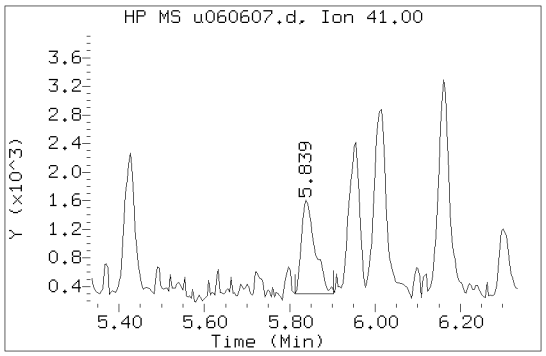

**BEFORE**

MASS
41
AREA
2978
HEIGHT
1310
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
41
AREA
2978
HEIGHT
1310
21-Jun-2023
13:47
linh
pha

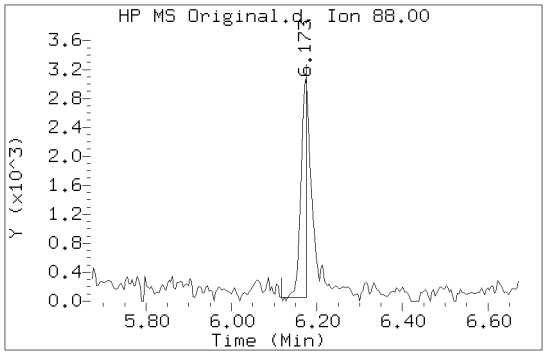



## 1,4-Dioxane ()

Reason Code:

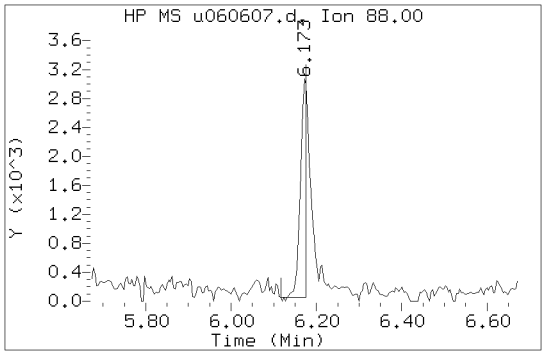
**BEFORE**

MASS
88
AREA
3065
HEIGHT
3017
08-Jun-2023
14:56
linh
pham



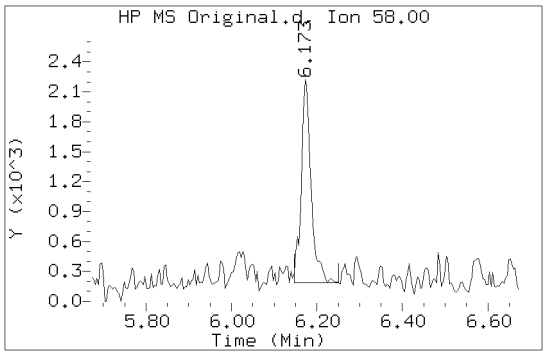

**AFTER**

MASS
88
AREA
3065
HEIGHT
3017
21-Jun-2023
13:47
linh
pha



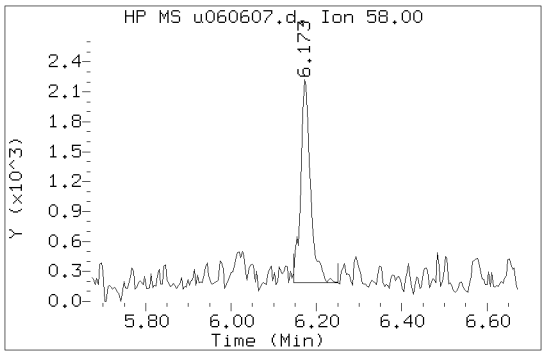

**BEFORE**

MASS
58
AREA
3335
HEIGHT
2036
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
58
AREA
3335
HEIGHT
2036
21-Jun-2023
13:47
linh
pha



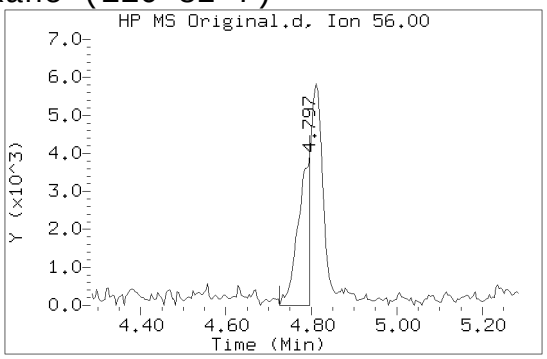
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

## Cyclohexane (110-82-7)

Reason Code:

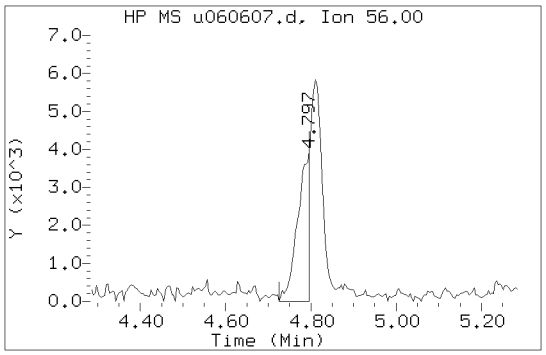
**BEFORE**

MASS
56
AREA
7781
HEIGHT
3965
08-Jun-2023
14:56
linh
pham



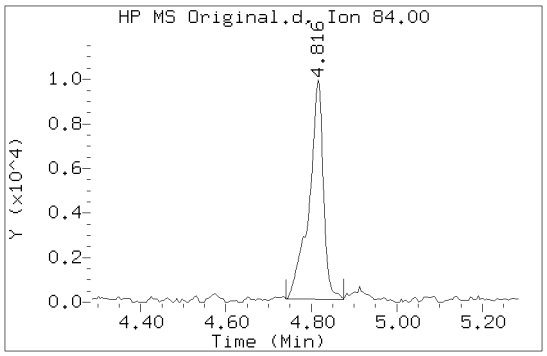

**AFTER**

MASS
56
AREA
7781
HEIGHT
3965
21-Jun-2023
13:47
linh
pha



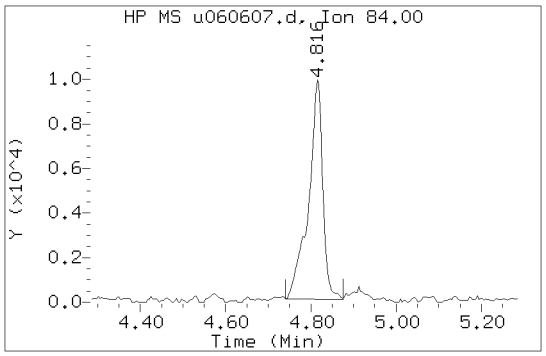

**BEFORE**

MASS
84
AREA
22992
HEIGHT
9843
08-Jun-2023
14:56
linh
pham



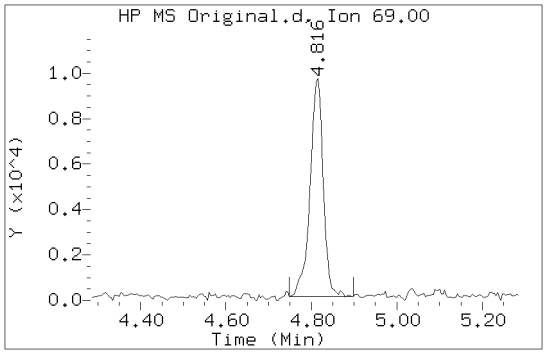

**AFTER**

MASS
84
AREA
22992
HEIGHT
9843
21-Jun-2023
13:47
linh
pha



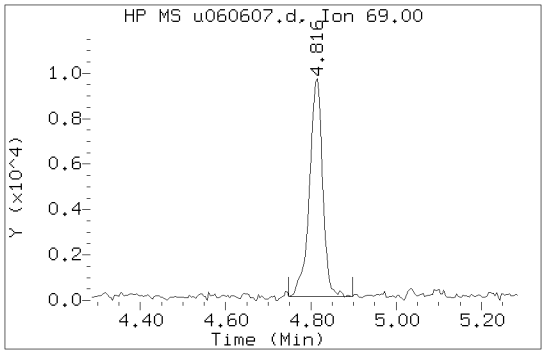

**BEFORE**

MASS
69
AREA
20740
HEIGHT
9600
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
69
AREA
20740
HEIGHT
9600
21-Jun-2023
13:47
linh
pha

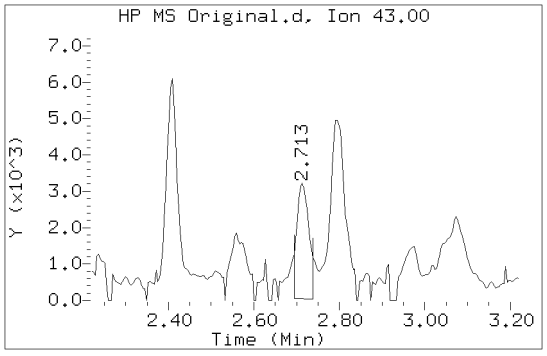



## Methyl Acetate (79-20-9)

Reason Code:

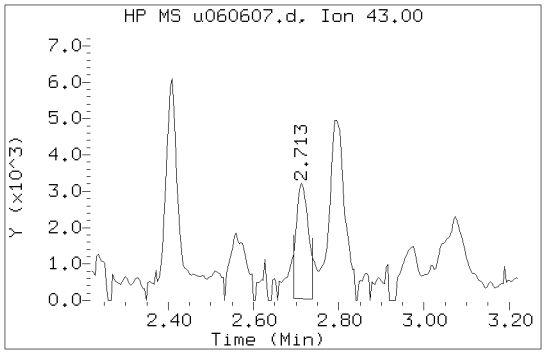
**BEFORE**

MASS
43
AREA
6421
HEIGHT
3170
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
43
AREA
6421
HEIGHT
3170
21-Jun-2023
13:47
linh
pha

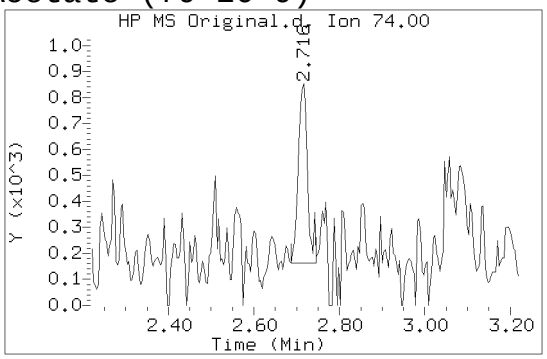


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

## Methyl Acetate (79-20-9)

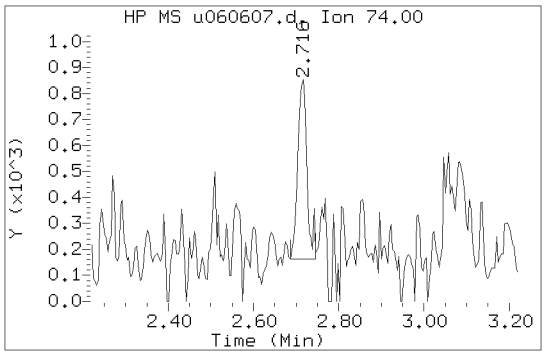
**BEFORE**

MASS
74
AREA
1042
HEIGHT
689
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
74
AREA
1042
HEIGHT
689
21-Jun-2023
13:47
linh
pha

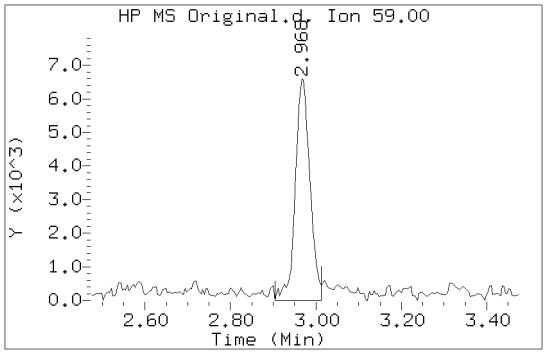



Reason Code:

## Tert-Butyl alcohol (75-65-0)

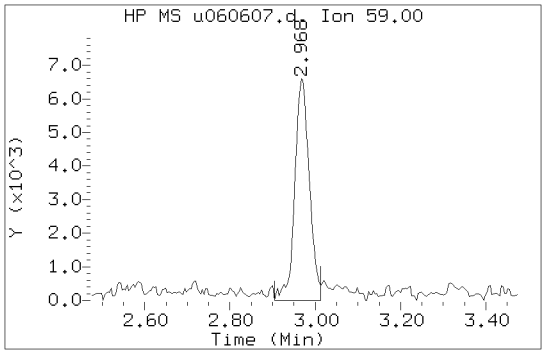
**BEFORE**

MASS
59
AREA
16016
HEIGHT
6600
08-Jun-2023
14:56
linh
pham




**AFTER**

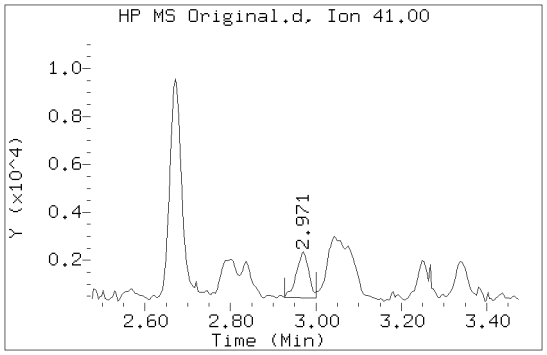
MASS
59
AREA
16016
HEIGHT
6600
21-Jun-2023
13:47
linh
pha




Reason Code:

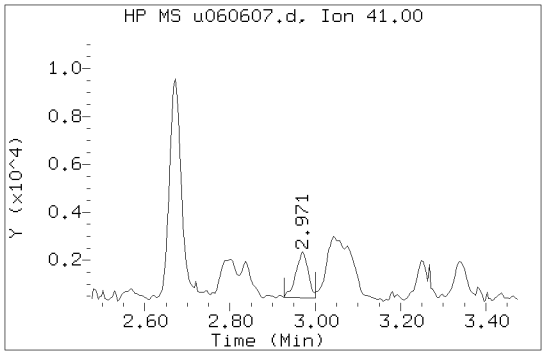
**BEFORE**

MASS
41
AREA
3907
HEIGHT
1899
08-Jun-2023
14:56
linh
pham




**AFTER**

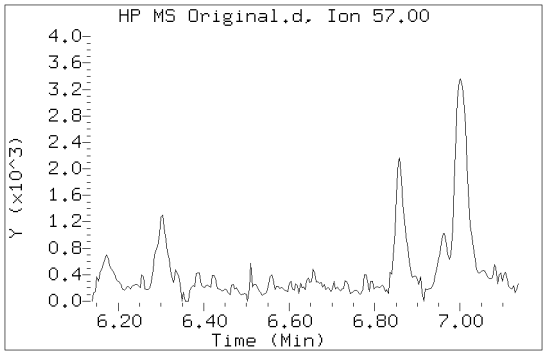
MASS
41
AREA
3907
HEIGHT
1899
21-Jun-2023
13:47
linh
pha




## Epichlorohydrin (106-89-8)

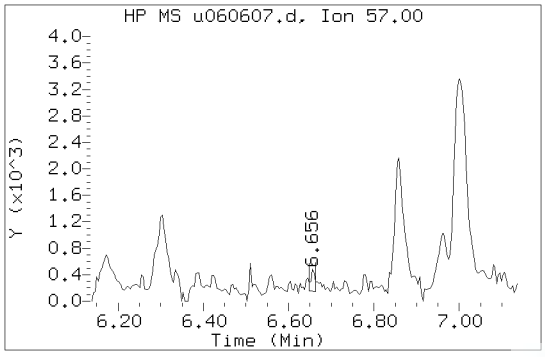
**BEFORE**

MASS
57
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
57
AREA
230
HEIGHT
333
21-Jun-2023
13:47
linh
pha




Reason Code:

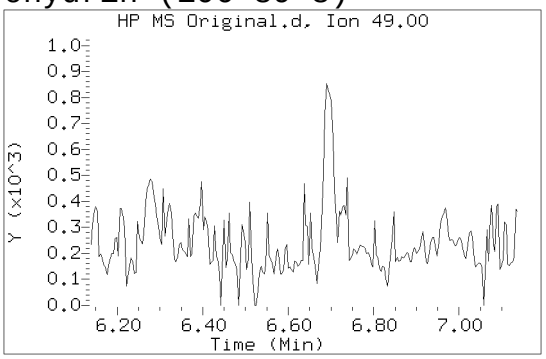
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Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

## Epichlorohydrin (106-89-8)

Reason Code:

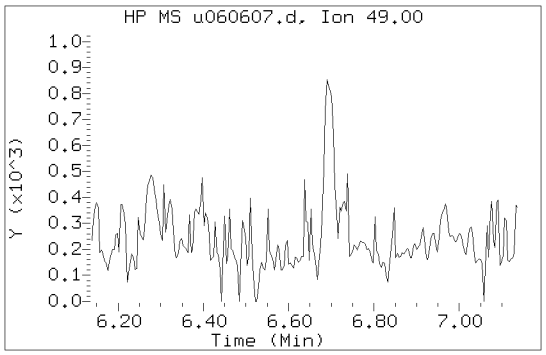
**BEFORE**

MASS
49
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
49
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

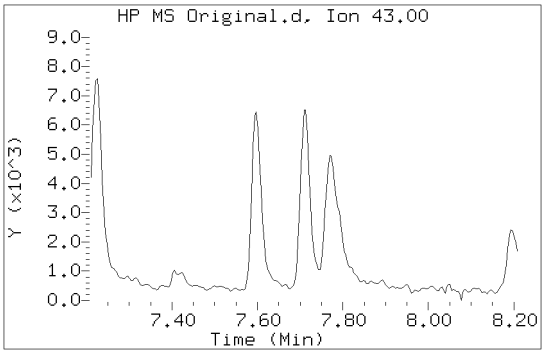



## n-Butyl acetate (123-86-4)

Reason Code:

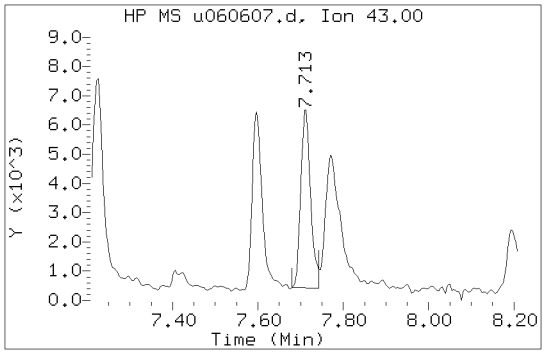
**BEFORE**

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AREA
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HEIGHT
0
08-Jun-2023
14:56
linh
pham



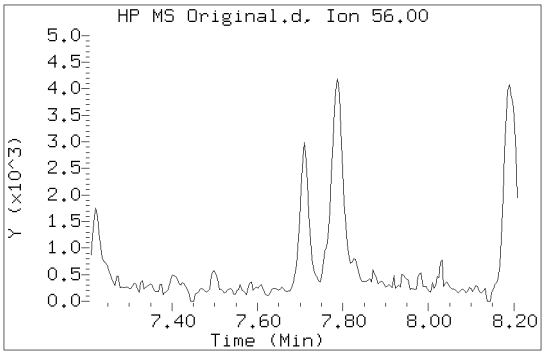

**AFTER**

MASS
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AREA
10025
HEIGHT
6077
21-Jun-2023
13:47
linh
pha



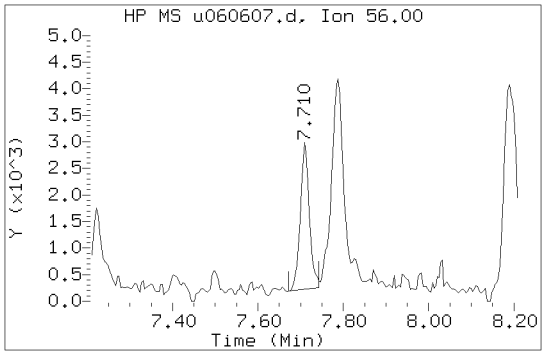

**BEFORE**

MASS
56
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



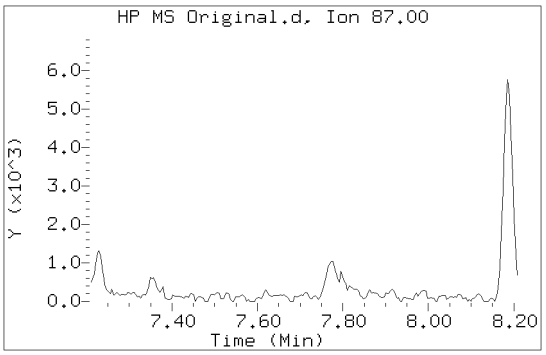

**AFTER**

MASS
56
AREA
4189
HEIGHT
2770
21-Jun-2023
13:47
linh
pha



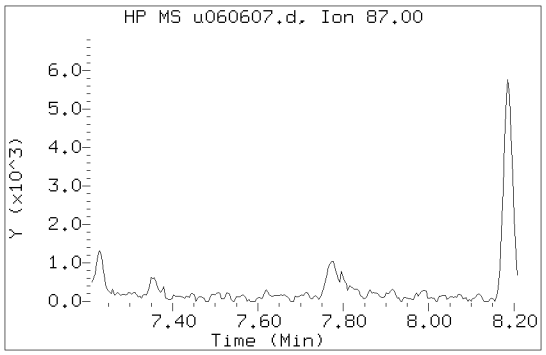

**BEFORE**

MASS
87
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
87
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

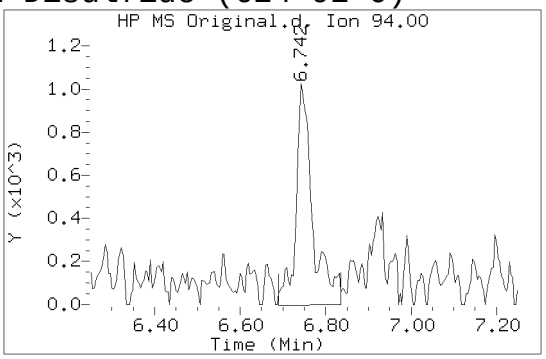


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

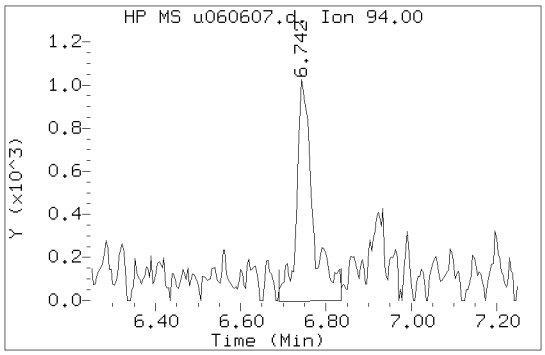
## Dimethyl Disulfide (624-92-0)

Reason Code:

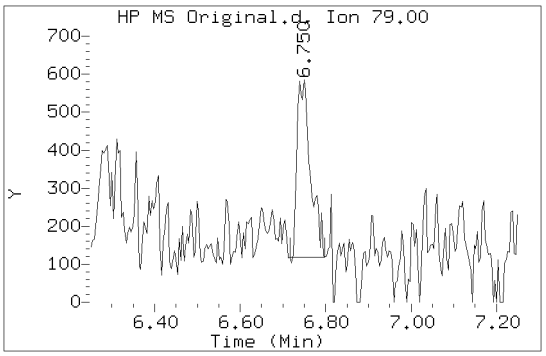
BEFORE
MASS
94
AREA
2841
HEIGHT
1027
08-Jun-2023
14:56
linh
pham



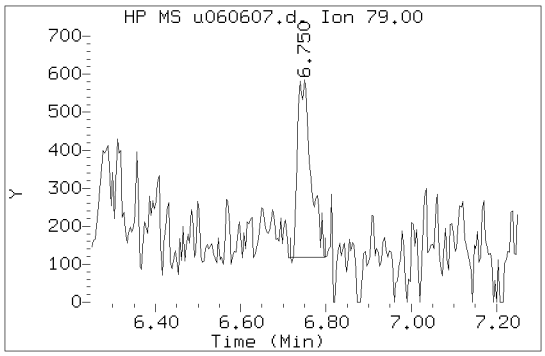

AFTER
MASS
94
AREA
2841
HEIGHT
1027
21-Jun-2023
13:47
linh
pha



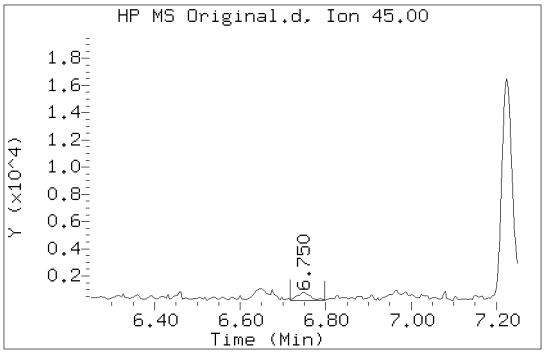

BEFORE
MASS
79
AREA
1040
HEIGHT
467
08-Jun-2023
14:56
linh
pham



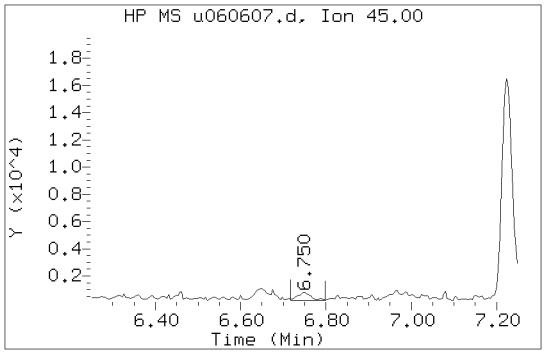

AFTER
MASS
79
AREA
1040
HEIGHT
467
21-Jun-2023
13:47
linh
pha




BEFORE
MASS
45
AREA
1197
HEIGHT
562
08-Jun-2023
14:56
linh
pham



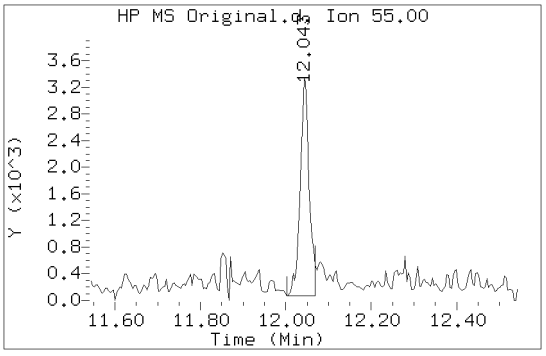

AFTER
MASS
45
AREA
1197
HEIGHT
562
21-Jun-2023
13:47
linh
pha



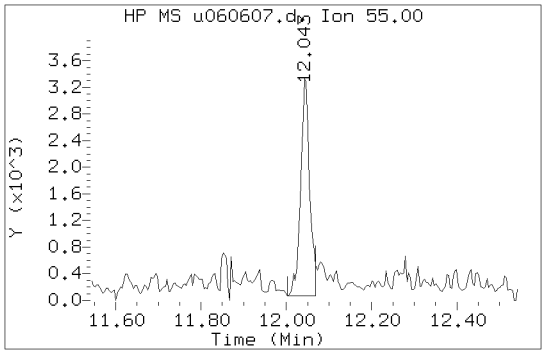

## 2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
55
AREA
4963
HEIGHT
3262
08-Jun-2023
14:56
linh
pham




AFTER
MASS
55
AREA
4963
HEIGHT
3262
21-Jun-2023
13:47
linh
pha



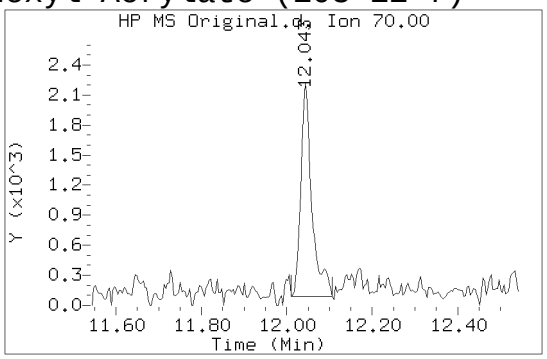
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

## 2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

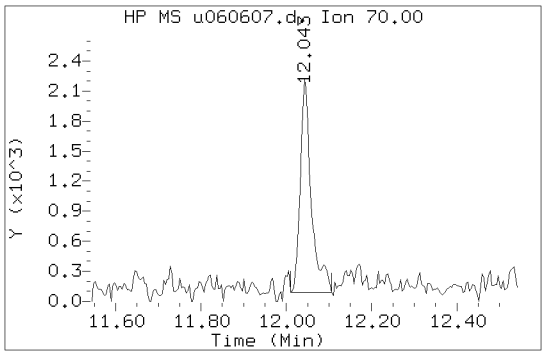
### BEFORE

MASS
70
AREA
3909
HEIGHT
2125
08-Jun-2023
14:56
linh
pham




### AFTER

MASS
70
AREA
3909
HEIGHT
2125
21-Jun-2023
13:47
linh
pha



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D Page 1
Report Date: 13-Jun-2023 13:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 06-JUN-2023 13:50
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD002;VSTD002;1;4;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 13-Jun-2023 13:01 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 13:28 Cal File: U060607.D
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.819 | 4.819 | (1.000) | 654680 | 50.0000 | |
| 2 | Dichlorodifluoromethane | 85 | 1.171 | 1.171 | (0.243) | 8519 | 2.00000 | 1.48(a) |
| 3 | Chloromethane | 50 | 1.303 | 1.303 | (0.270) | 24280 | 2.00000 | 1.17(a) |
| 5 | Vinyl Chloride | 62 | 1.385 | 1.385 | (0.288) | 12806 | 2.00000 | 1.84(a) |
| 6 | Bromomethane | 94 | 1.629 | 1.629 | (0.338) | 9237 | 2.00000 | 0.85(a) |
| 7 | Chloroethane | 64 | 1.708 | 1.708 | (0.354) | 8750 | 2.00000 | 1.87(a) |
| 8 | Trichlorofluoromethane | 101 | 1.902 | 1.902 | (0.395) | 13346 | 2.00000 | 1.67(a) |
| 10 | Acetone | 43 | 2.420 | 2.420 | (0.502) | 18337 | 4.00000 | 2.91(a) |
| 11 | 1,1-Dichloroethene | 96 | 2.341 | 2.341 | (0.486) | 8887 | 2.00000 | 1.78(a) |
| 15 | Iodomethane | 142 | 2.480 | 2.480 | (0.515) | 5244 | 4.00000 | 11.12(M) |
| 17 | Methylene Chloride | 84 | 2.802 | 2.802 | (0.582) | 14226 | 2.00000 | 1.40(a) |
| 18 | Methyl tert-butyl ether | 73 | 3.087 | 3.087 | (0.641) | 27827 | 2.00000 | 1.82(a) |
| 19 | Carbon Disulfide | 76 | 2.528 | 2.528 | (0.525) | 47817 | 4.00000 | 3.59(a) |
| 20 | trans-1,2-Dichloroethene | 96 | 3.068 | 3.068 | (0.637) | 10209 | 2.00000 | 1.88(a) |
| 21 | Vinyl Acetate | 43 | 3.616 | 3.616 | (0.750) | 59931 | 4.00000 | 3.63(a) |
| 22 | 1,1-Dichloroethane | 63 | 3.522 | 3.522 | (0.731) | 20288 | 2.00000 | 1.97(a) |
| 24 | 2-Butanone | 43 | 4.279 | 4.279 | (0.888) | 11638 | 4.00000 | 3.89(a) |
| 26 | 2,2-Dichloropropane | 77 | 4.182 | 4.182 | (0.868) | 12294 | 2.00000 | 2.19(a) |
| 27 | cis-1,2-Dichloroethene | 96 | 4.204 | 4.204 | (0.872) | 12235 | 2.00000 | 1.89(a) |
| 28 | Chloroform | 83 | 4.579 | 4.579 | (0.950) | 20897 | 2.00000 | 1.95(a) |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 29 Bromochloromethane | 128 | 4.474 | 4.474 (0.928) | 6927 | 2.00000 | 1.91(a) |
| $ | 30 Dibromofluoromethane | 113 | 4.755 | 4.755 (0.987) | 10602 | 2.00000 | 1.62(a) |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 31 1,1,1-Trichloroethane | 97 | 4.744 | 4.744 | (0.984) | 13786 | 2.00000 | 1.69(a) |
| | 32 1,1-Dichloropropene | 75 | 4.928 | 4.928 | (0.887) | 12050 | 2.00000 | 1.70(a) |
| | 33 1,2-Dichloroethane | 62 | 5.183 | 5.183 | (0.933) | 17690 | 2.00000 | 2.12(a) |
| | 34 Carbon Tetrachloride | 117 | 4.916 | 4.916 | (0.885) | 10294 | 2.00000 | 1.58(a) |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.104 | 5.104 | (1.059) | 11855 | 2.00000 | 1.33(a) |
| * | 36 1,4-Difluorobenzene | 114 | 5.557 | 5.557 | (1.000) | 962707 | 50.0000 | |
| | 37 Benzene | 78 | 5.141 | 5.141 | (0.925) | 46993 | 2.00000 | 2.02(a) |
| | 38 Trichloroethene | 130 | 5.794 | 5.794 | (1.042) | 12341 | 2.00000 | 1.83(a) |
| | 39 Bromodichloromethane | 83 | 6.281 | 6.281 | (1.130) | 12700 | 2.00000 | 1.75(a) |
| | 42 1,2-Dichloropropane | 63 | 6.015 | 6.015 | (1.082) | 12117 | 2.00000 | 1.95(a) |
| | 44 Dibromomethane | 93 | 6.123 | 6.123 | (1.102) | 7782 | 2.00000 | 1.96(a) |
| | 45 4-Methyl-2-Pentanone | 43 | 6.858 | 6.858 | (0.838) | 30250 | 4.00000 | 4.57(a) |
| | 46 cis-1,3-Dichloropropene | 75 | 6.697 | 6.697 | (1.205) | 12842 | 2.00000 | 3.18(a) |
| * | 47 Chlorobenzene-d5 | 117 | 8.189 | 8.189 | (1.000) | 907233 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.926 | 6.926 | (0.846) | 36710 | 2.00000 | 1.78(a) |
| | 50 Toluene | 91 | 6.986 | 6.986 | (0.853) | 45011 | 2.00000 | 1.82(a) |
| | 51 trans-1,3-Dichloropropene | 75 | 7.199 | 7.199 | (1.295) | 12660 | 2.00000 | 3.51(aM) |
| | 52 2-Hexanone | 43 | 7.597 | 7.597 | (0.928) | 23033 | 4.00000 | 5.00 |
| | 53 1,1,2-Trichloroethane | 83 | 7.357 | 7.357 | (0.898) | 10667 | 2.00000 | 2.08(a) |
| | 54 1,3-Dichloropropane | 76 | 7.503 | 7.503 | (0.916) | 21098 | 2.00000 | 2.01(a) |
| | 55 Dibromochloromethane | 129 | 7.694 | 7.694 | (0.940) | 10276 | 2.00000 | 1.69(a) |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 11347 | 2.00000 | 1.89(a) |
| | 57 1,2-Dibromoethane | 107 | 7.788 | 7.788 | (0.951) | 12823 | 2.00000 | 2.03(a) |
| | 58 1-Chlorohexane | 55 | 8.189 | 8.189 | (1.473) | 9554 | 2.00000 | 1.93(aM) |
| | 59 Chlorobenzene | 112 | 8.211 | 8.211 | (1.003) | 36163 | 2.00000 | 2.05(a) |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 8.286 | 8.286 | (1.012) | 11696 | 2.00000 | 1.93(a) |
| | 61 Ethylbenzene | 106 | 8.309 | 8.309 | (1.015) | 13970 | 2.00000 | 1.70(a) |
| | 62 m,p-Xylenes | 106 | 8.410 | 8.410 | (1.027) | 33831 | 4.00000 | 3.49(aM) |
| | 63 o-Xylene | 106 | 8.748 | 8.748 | (1.068) | 16529 | 2.00000 | 1.73(a) |
| | 64 Styrene | 104 | 8.766 | 8.766 | (1.070) | 26887 | 2.00000 | 1.77(a) |
| | 66 Bromoform | 173 | 8.920 | 8.920 | (1.089) | 7583 | 2.00000 | 1.84(a) |
| | 67 Isopropylbenzene | 105 | 9.062 | 9.062 | (1.107) | 39716 | 2.00000 | 1.73(a) |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 9.332 | 9.332 | (0.917) | 21290 | 2.00000 | 2.41(aM) |
| $ | 69 4-Bromofluorobenzene | 95 | 9.197 | 9.197 | (1.123) | 16728 | 2.00000 | 1.19(a) |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 468121 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 9.362 | 9.362 | (0.920) | 17163 | 2.00000 | 2.21(aM) |
| | 73 n-Propylbenzene | 91 | 9.415 | 9.415 | (0.926) | 42411 | 2.00000 | 1.72(a) |
| | 74 Bromobenzene | 156 | 9.317 | 9.317 | (0.916) | 17200 | 2.00000 | 2.17(a) |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.565 | 9.565 | (0.940) | 31762 | 2.00000 | 1.88(a) |
| | 76 2-Chlorotoluene | 91 | 9.482 | 9.482 | (0.932) | 34904 | 2.00000 | 2.02(a) |
| | 77 4-Chlorotoluene | 91 | 9.580 | 9.580 | (0.942) | 39709 | 2.00000 | 2.07(a) |
| | 78 tert-Butylbenzene | 119 | 9.838 | 9.838 | (0.967) | 29666 | 2.00000 | 1.79(a) |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.880 | 9.880 | (0.971) | 37613 | 2.00000 | 2.13(a) |
| | 81 sec-Butylbenzene | 105 | 10.022 | 10.022 | (0.985) | 35689 | 2.00000 | 1.70(a) |
| | 82 p-Isopropyltoluene | 119 | 10.146 | 10.146 | (0.997) | 31988 | 2.00000 | 1.81(a) |
| | 83 1,3-Dichlorobenzene | 146 | 10.116 | 10.116 | (0.994) | 29086 | 2.00000 | 2.16(a) |
| | 84 1,4-Dichlorobenzene | 146 | 10.195 | 10.195 | (1.002) | 31674 | 2.00000 | 2.21(aM) |
| | 87 n-Butylbenzene | 91 | 10.494 | 10.494 | (1.032) | 27289 | 2.00000 | 1.81(a) |
| | 88 1,2-Dichlorobenzene | 146 | 10.506 | 10.506 | (1.033) | 30371 | 2.00000 | 2.25(a) |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 11.169 | 11.169 | (1.098) | 2819 | 2.00000 | 2.19(a) |
| | 90 1,2,4-Trichlorobenzene | 180 | 11.859 | 11.859 | (1.166) | 19713 | 2.00000 | 2.13(a) |
| | 93 1,2,3-Trichlorobenzene | 180 | 12.271 | 12.271 | (1.206) | 20459 | 2.00000 | 2.26(a) |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M | 94 | 1,2-Dichloroethylene (total) | 96 | | | 22444 | 4.00000 | (a) |
| | 135 | 1,4-Dioxane | 88 | 6.176 | 6.176 (1.282) | 5764 | 40.0000 | 44.34(aM) |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| 141 Cyclohexane | 56 | 4.785 | 4.785 | (0.993) | 8877 | 2.00000 | 1.31(aMH) |
| 138 Freon TF | 101 | 2.341 | 2.341 | (0.486) | 6997 | 2.00000 | 1.59(aM) |
| 140 1,3-Butadiene | 54 | 1.408 | 1.408 | (0.292) | 11039 | 2.00000 | 1.78(a) |
| 147 Methylcyclohexane | 55 | 5.955 | 5.955 | (1.071) | 22206 | 2.00000 | 1.66(a) |
| 146 Methyl Acetate | 43 | 2.723 | 2.723 | (0.565) | 12288 | 2.00000 | 2.22(a) |
| 148 Tert-Butyl alcohol | 59 | 2.978 | 2.978 | (0.618) | 34487 | 40.0000 | 52.33 |
| 149 Isopropyl Alcohol | 45 | 2.573 | 2.573 | (0.534) | 22047 | 40.0000 | 51.51(T) |
| 72 trans-1,4-Dichloro-2-butene | 53 | 9.377 | 9.377 | (1.145) | 1936 | 2.00000 | 1.85(M) |
| 12 Isobutyl Alcohol | 43 | 5.295 | 5.295 | (1.099) | 31429 | 40.0000 | 36.94(M) |
| 13 Acetonitrile | 39 | 2.678 | 2.678 | (0.556) | 13701 | 20.0000 | 19.32 |
| 40 Methyl Methacrylate | 41 | 6.161 | 6.161 | (1.278) | 9826 | 2.00000 | 1.74 |
| 4 Propionitrile | 54 | 4.350 | 4.350 | (0.903) | 17197 | 20.0000 | 18.17(a) |
| 136 n-Hexane | 57 | 3.346 | 3.346 | (0.694) | 7179 | 2.00000 | 1.45(a) |
| 131 Methyl Acrylate | 55 | 4.377 | 4.377 | (0.908) | 11843 | 2.00000 | 1.71(aM) |
| 200 Dimethyl Disulfide | 94 | 6.746 | 6.746 | (0.824) | 4598 | 2.00000 | 5.17(M) |
| 49 Ethyl Methacrylate | 69 | 7.297 | 7.297 | (1.313) | 13205 | 2.00000 | 1.56(a) |
| 166 1,2,3-Trimethylbenzene | 105 | 10.236 | 10.236 | (1.006) | 34972 | 2.00000 | 1.94(a) |
| 167 Ethanol | 45 | 2.090 | 2.090 | (0.434) | 4910 | 40.0000 | 38.64 |
| 164 Dicyclopentadiene | 66 | 10.202 | 10.202 | (1.003) | 43120 | 2.00000 | 1.88(a) |
| 145 alpha-Methylstyrene | 118 | 9.756 | 9.756 | (0.959) | 14955 | 2.00000 | 5.11 |
| 156 Diisopropyl ether | 45 | 3.627 | 3.627 | (0.753) | 35538 | 2.00000 | 1.94(Ta) |
| 151 4-Methyl-2-pentanol | 45 | 7.226 | 7.226 | (1.300) | 47340 | 40.0000 | 33.06 |
| 150 Allyl alcohol | 57 | 3.346 | 3.346 | (0.694) | 7179 | 40.0000 | 29.86 |
| 86 Benzyl Chloride | 91 | 10.315 | 10.315 | (1.260) | 11203 | 2.00000 | 5.38 |
| 162 Butyl acrylate | 55 | 8.740 | 8.740 | (1.067) | 18210 | 2.00000 | 1.69(a) |
| 139 Diethyl ether | 59 | 2.154 | 2.154 | (0.447) | 8174 | 2.00000 | 1.84(a) |
| 203 2-Ethylhexyl Acrylate | 55 | 12.043 | 12.043 | (1.184) | 8201 | 2.00000 | 3.58(a) |
| 134 Cyclohexanone | 55 | 9.156 | 9.156 | (0.900) | 11087 | 40.0000 | 38.20(a) |
| 130 Ethyl Acetate | 43 | 4.279 | 4.279 | (0.888) | 11855 | 2.00000 | 2.02(aM) |
| 189 n-Butyl acetate | 43 | 7.713 | 7.713 | (0.942) | 21837 | 2.00000 | 2.11(aM) |
| 182 Epichlorohydrin | 57 | 6.637 | 6.637 | (1.194) | 854 | 8.00000 | 18.93(M) |

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

01196515

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D

Page 1

Date : 06-JUN-2023 13:50

Client ID: VSTD002

Instrument: VOA9.i

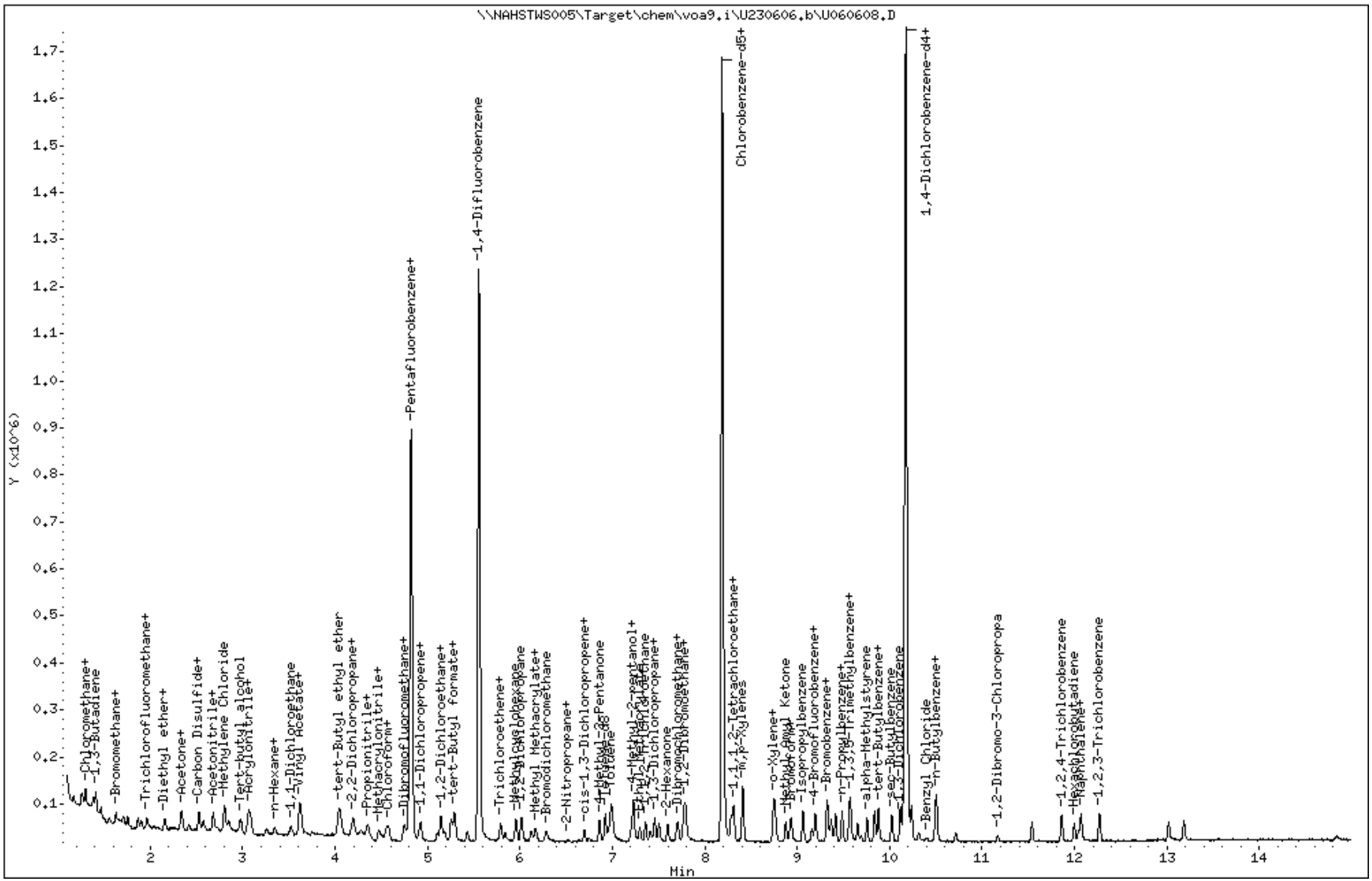
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Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



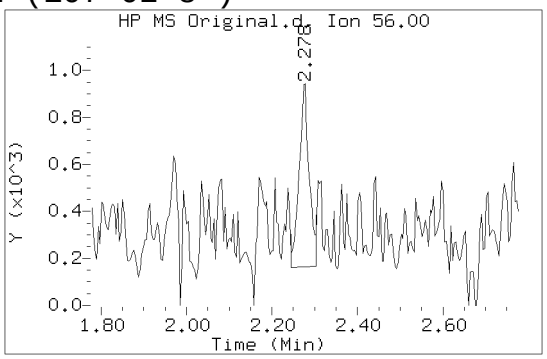
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InstruID : VOA9.i
LabSampID : VSTD002

## Acrolein (107-02-8 )

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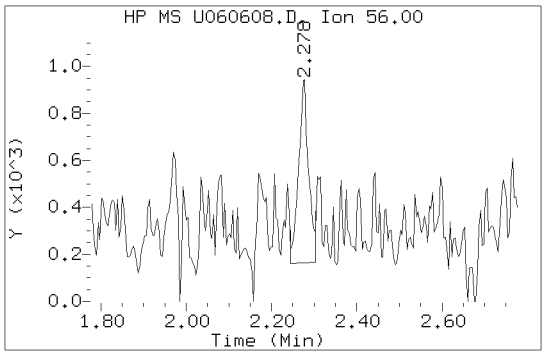
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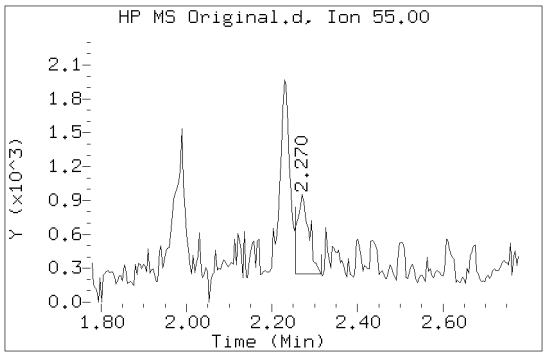

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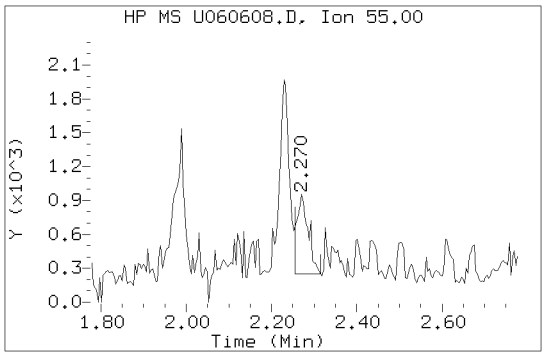

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08-Jun-2023
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AFTER

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13-Jun-2023
13:00
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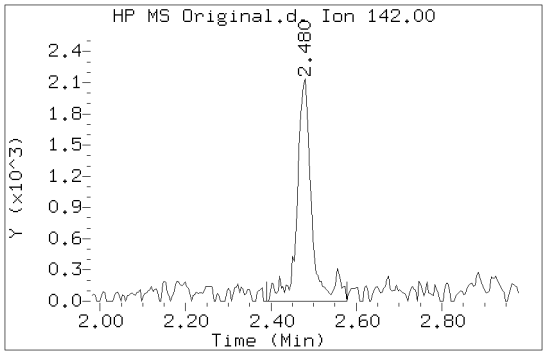



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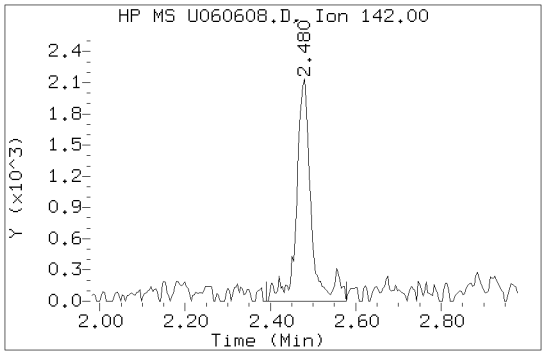
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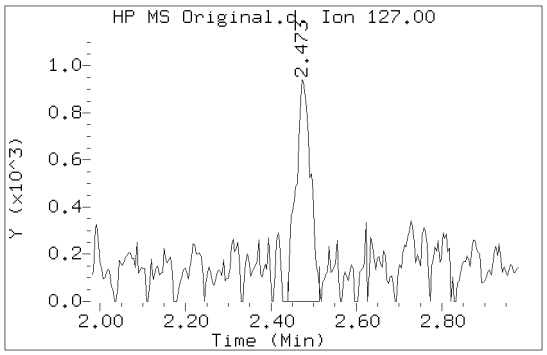

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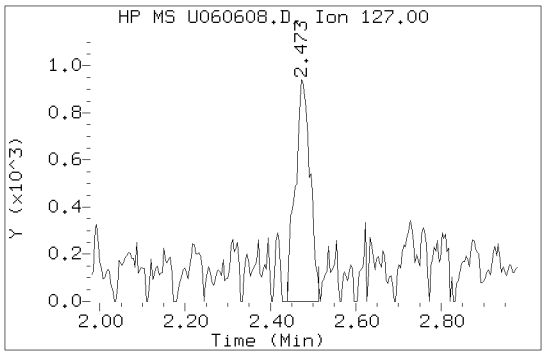

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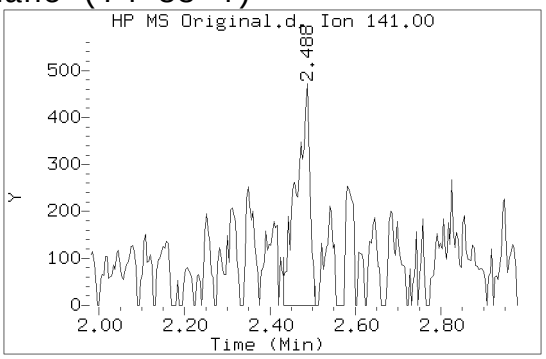
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InstruID : VOA9.i
LabSampID : VSTD002

## Iodomethane (74-88-4)

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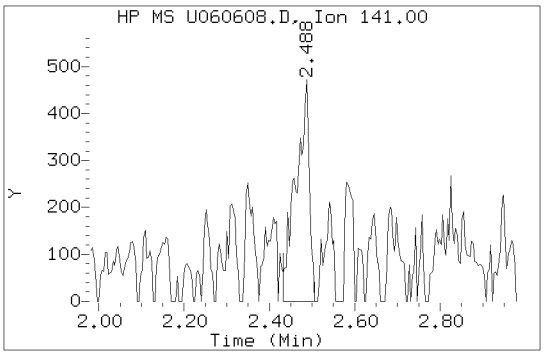
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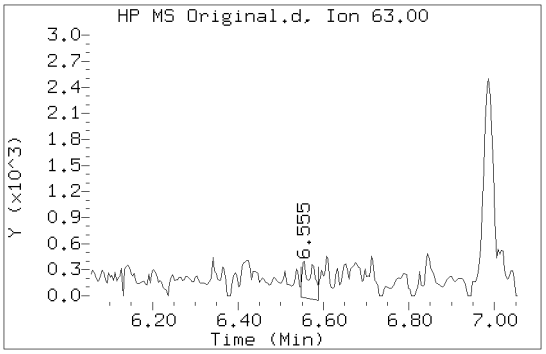



## 2-Chloroethylvinyl ether (110-75-8)

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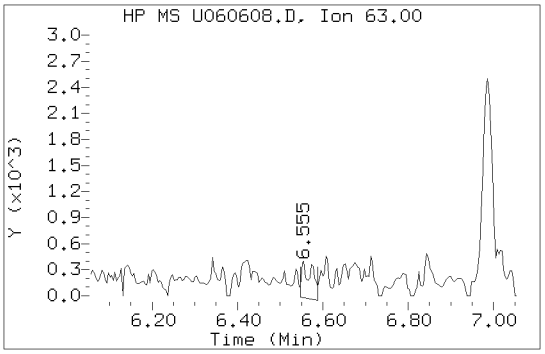
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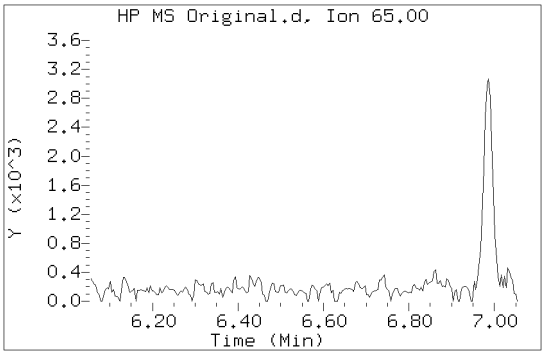

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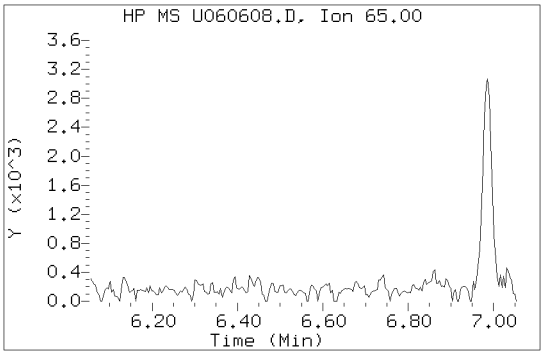

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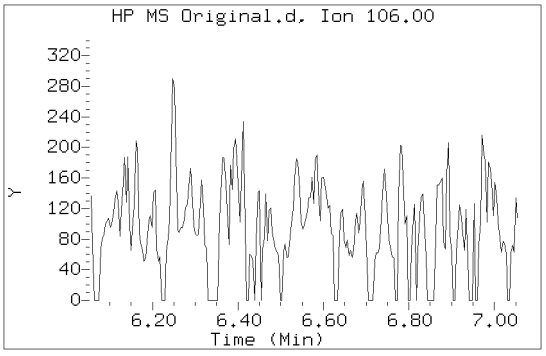

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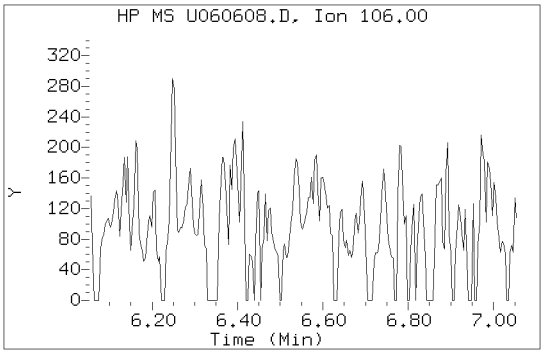

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AFTER

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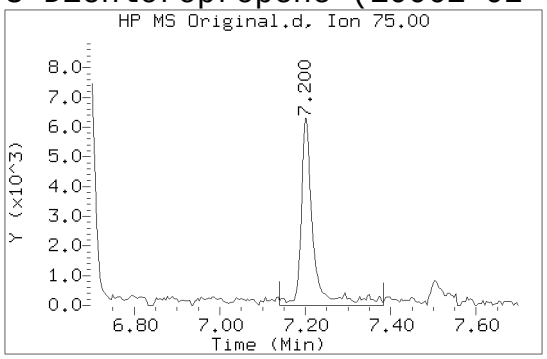
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LabSampID : VSTD002

## trans-1,3-Dichloropropene (10061-02-6)

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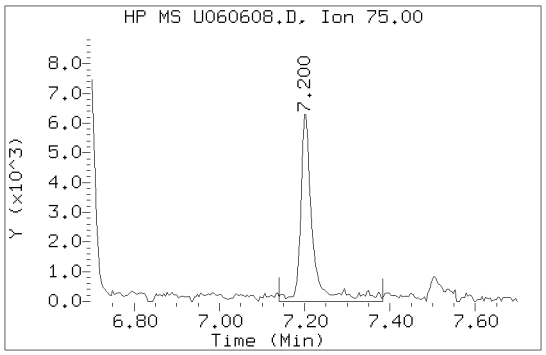
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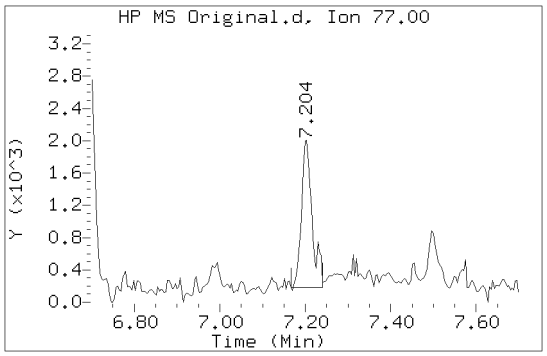

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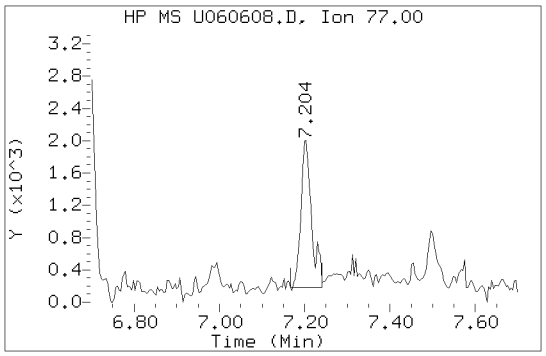

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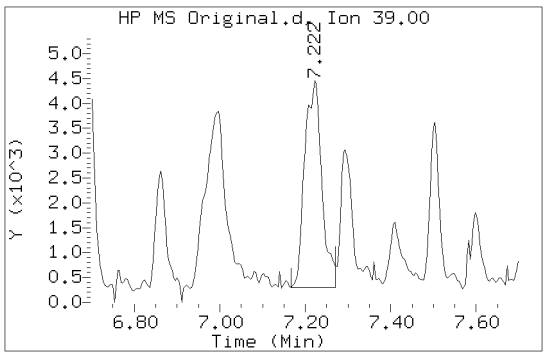

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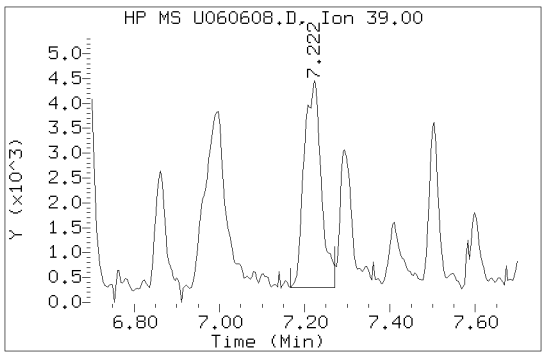

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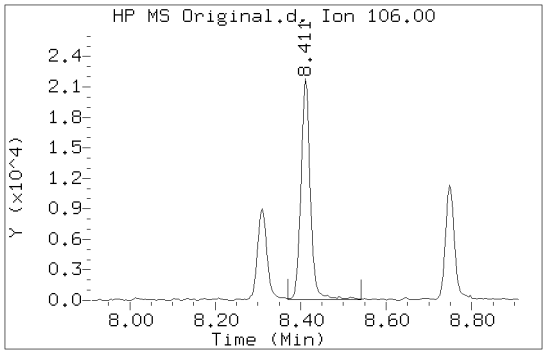



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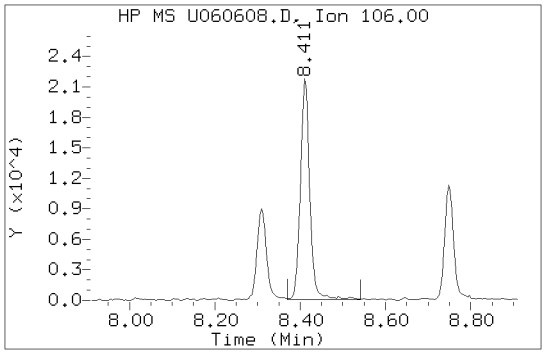
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AFTER

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13:00
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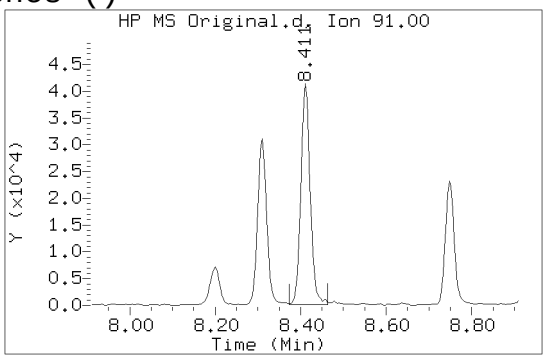
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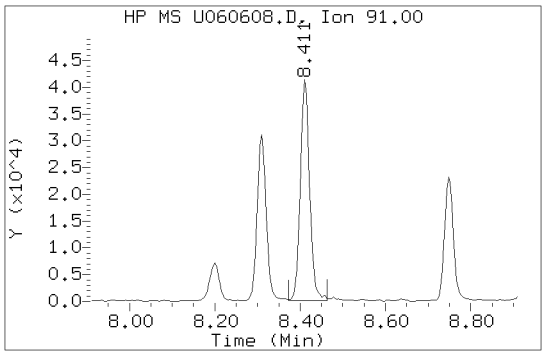
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**AFTER**

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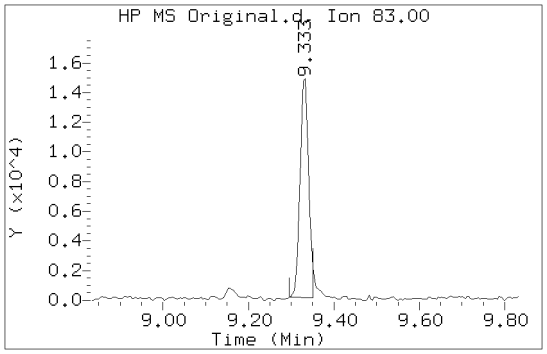



## 1,1,2,2-Tetrachloroethane (79-34-5)

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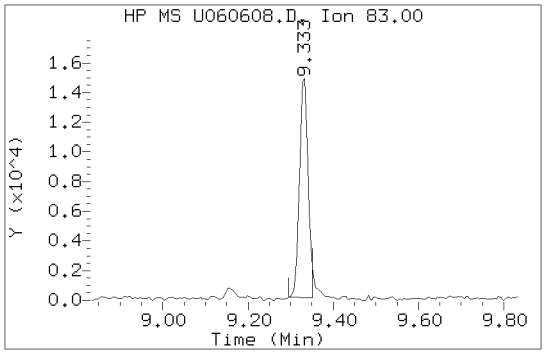
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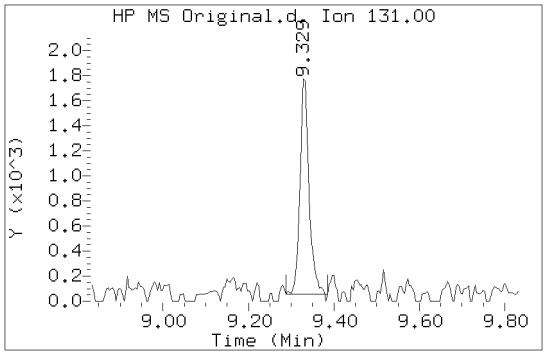

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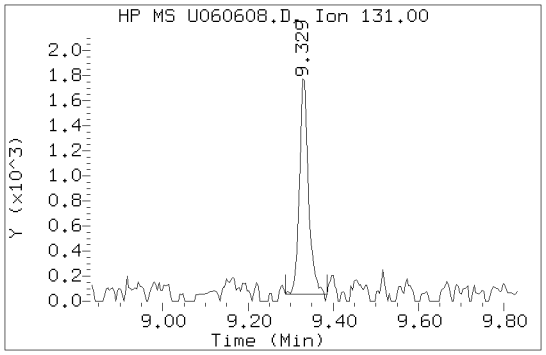

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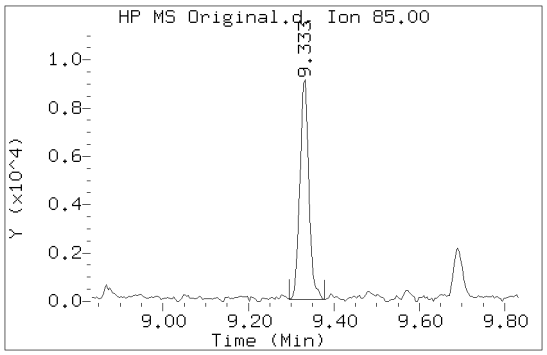

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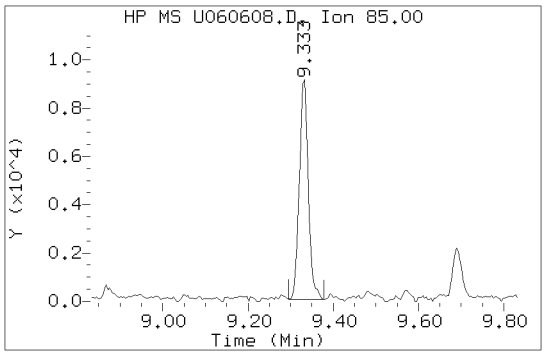

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**AFTER**

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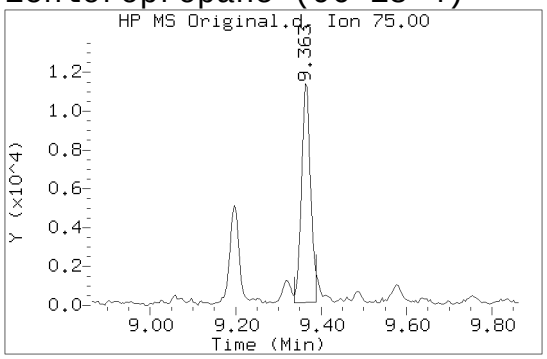
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Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

## 1,2,3-Trichloropropane (96-18-4)

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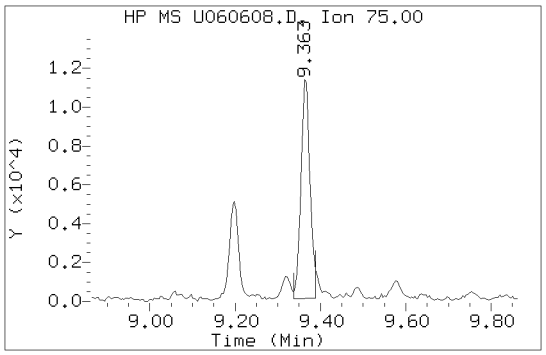
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linh
pham



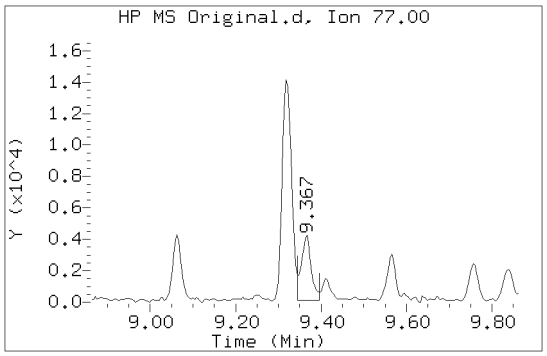

AFTER

MASS
75
AREA
17163
HEIGHT
11263
13-Jun-2023
13:00
linh
pham



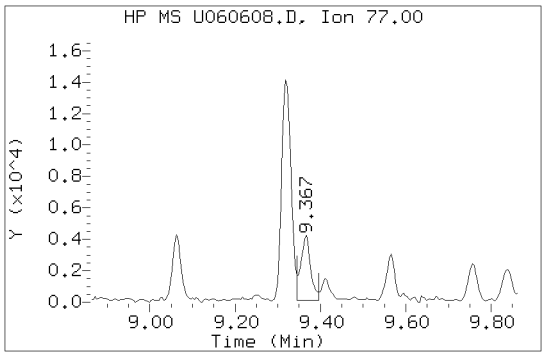

BEFORE

MASS
77
AREA
7018
HEIGHT
4115
08-Jun-2023
14:56
linh
pham




AFTER

MASS
77
AREA
7018
HEIGHT
4115
13-Jun-2023
13:00
linh
pham

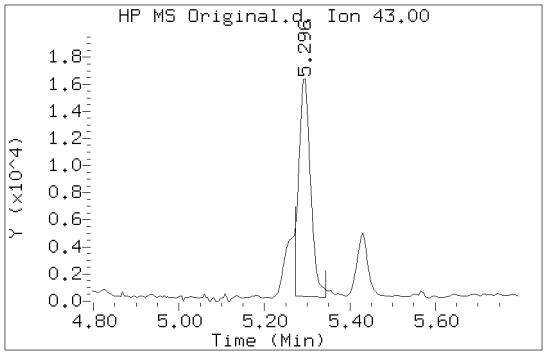



## Isobutyl Alcohol (78-83-1)

Reason Code:

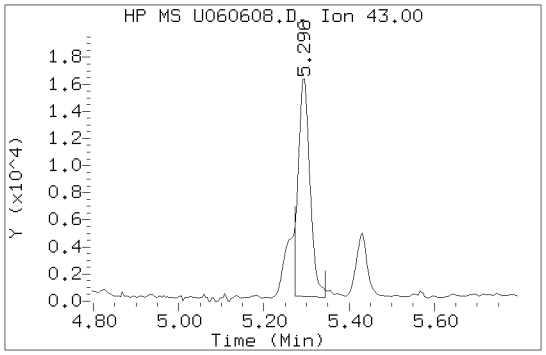
BEFORE

MASS
43
AREA
31429
HEIGHT
16036
08-Jun-2023
14:56
linh
pham



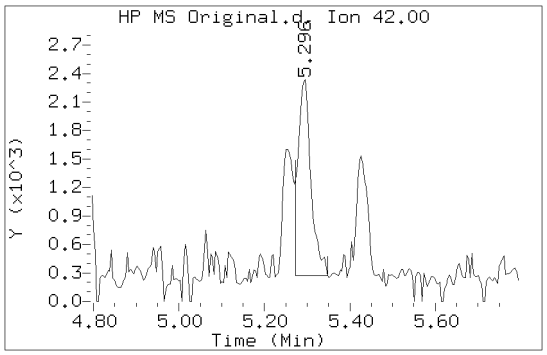

AFTER

MASS
43
AREA
31429
HEIGHT
16036
13-Jun-2023
13:00
linh
pham



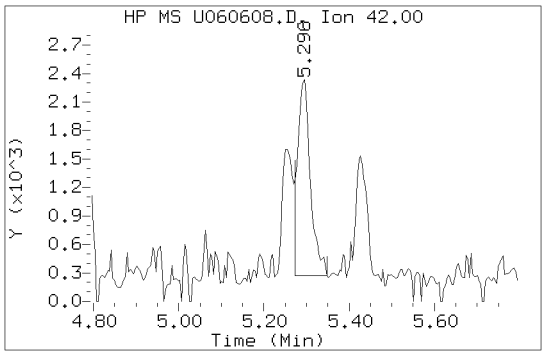

BEFORE

MASS
42
AREA
4414
HEIGHT
2065
08-Jun-2023
14:56
linh
pham




AFTER

MASS
42
AREA
4414
HEIGHT
2065
13-Jun-2023
13:00
linh
pham



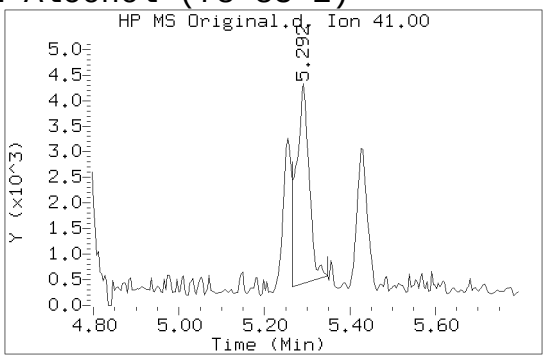
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

## Isobutyl Alcohol (78-83-1)

Reason Code:

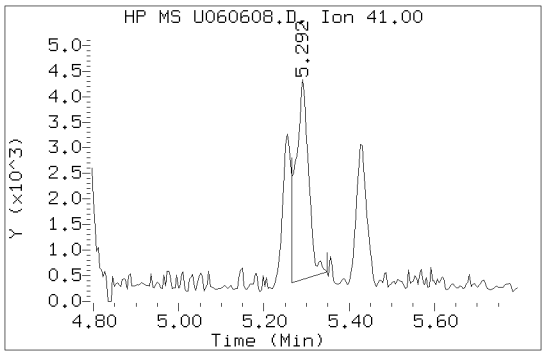
**BEFORE**

MASS
41
AREA
8253
HEIGHT
3899
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
41
AREA
8253
HEIGHT
3899
13-Jun-2023
13:00
linh
pham

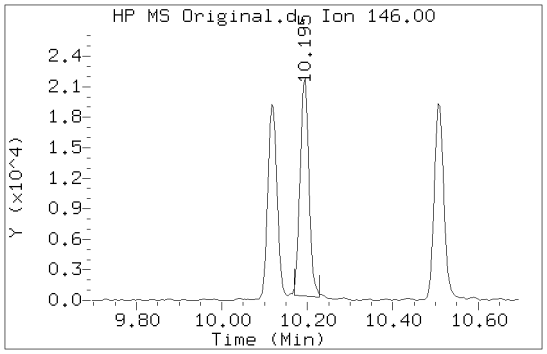



## 1,4-Dichlorobenzene (106-46-7)

Reason Code:

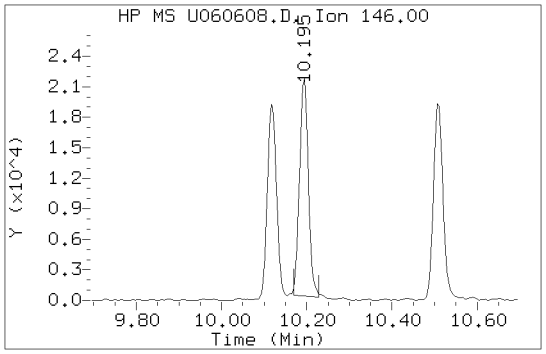
**BEFORE**

MASS
146
AREA
31674
HEIGHT
21370
08-Jun-2023
14:56
linh
pham



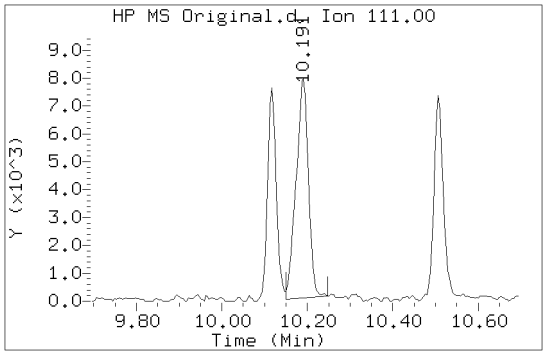

**AFTER**

MASS
146
AREA
31674
HEIGHT
21370
13-Jun-2023
13:00
linh
pham



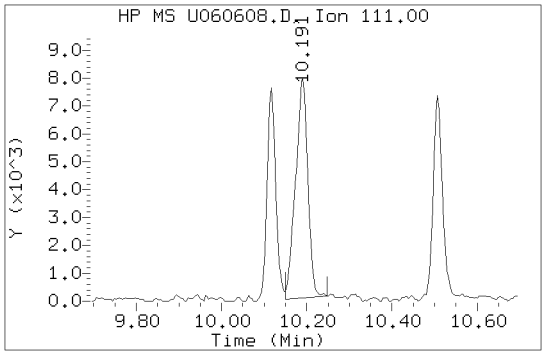

**BEFORE**

MASS
111
AREA
16075
HEIGHT
7847
08-Jun-2023
14:56
linh
pham



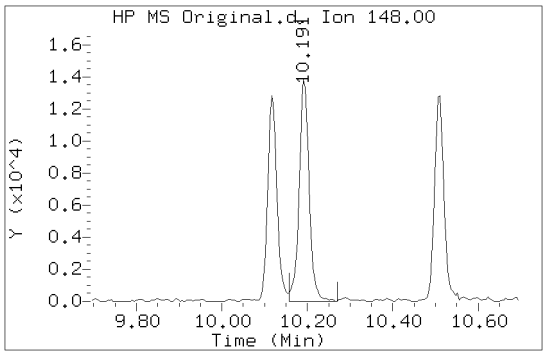

**AFTER**

MASS
111
AREA
16075
HEIGHT
7847
13-Jun-2023
13:00
linh
pham



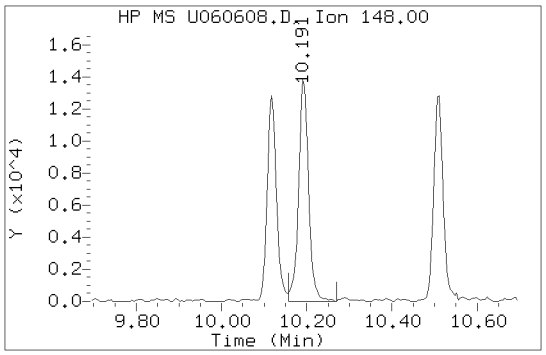

**BEFORE**

MASS
148
AREA
23144
HEIGHT
13826
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
148
AREA
23144
HEIGHT
13826
13-Jun-2023
13:00
linh
pham



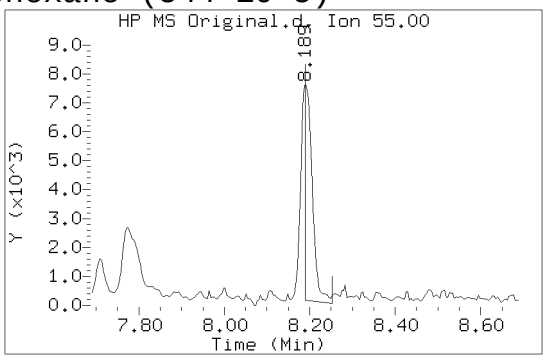
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Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

## 1-Chlorohexane (544-10-5)

Reason Code:

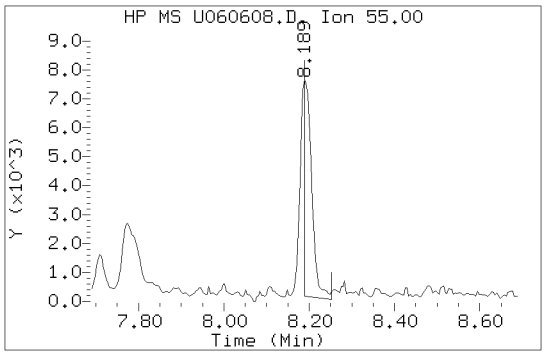
BEFORE

MASS
55
AREA
9554
HEIGHT
7479
08-Jun-2023
14:56
linh
pham



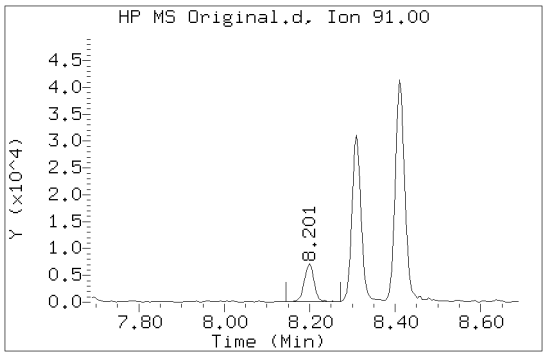

AFTER

MASS
55
AREA
9554
HEIGHT
7479
13-Jun-2023
13:00
linh
pham



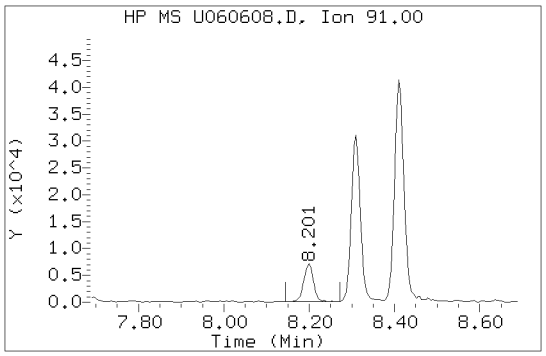

BEFORE

MASS
91
AREA
11373
HEIGHT
7051
08-Jun-2023
14:56
linh
pham




AFTER

MASS
91
AREA
11373
HEIGHT
7051
13-Jun-2023
13:00
linh
pham

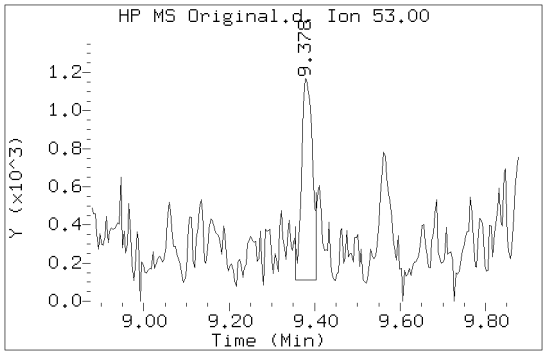



## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

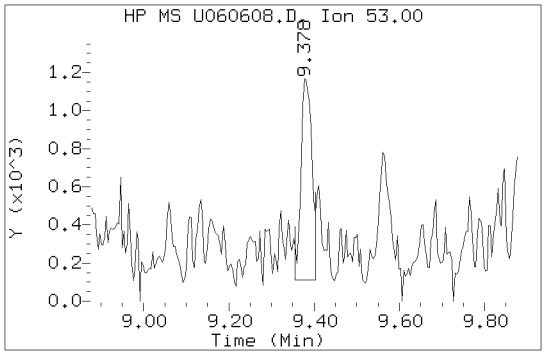
BEFORE

MASS
53
AREA
1936
HEIGHT
1056
08-Jun-2023
14:56
linh
pham



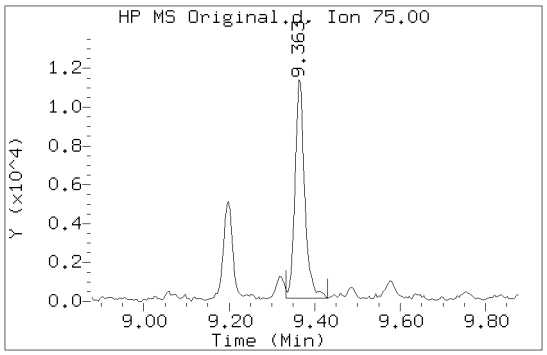

AFTER

MASS
53
AREA
1936
HEIGHT
1056
13-Jun-2023
13:00
linh
pham



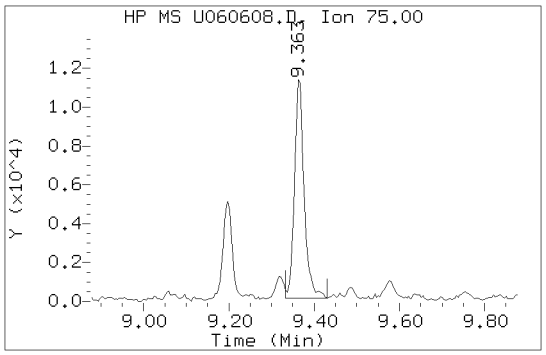

BEFORE

MASS
75
AREA
18151
HEIGHT
11253
08-Jun-2023
14:56
linh
pham




AFTER

MASS
75
AREA
18151
HEIGHT
11253
13-Jun-2023
13:00
linh
pham

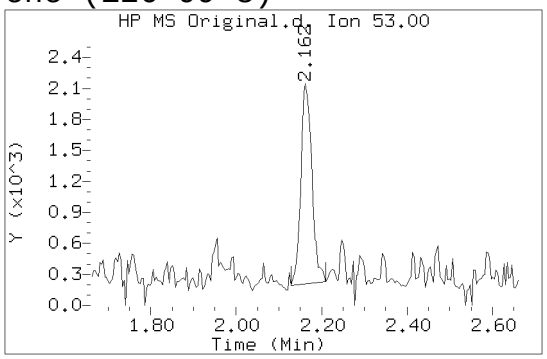


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

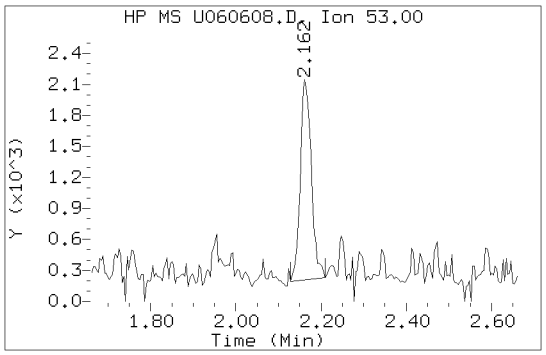
## Chloroprene (126-99-8)

Reason Code:

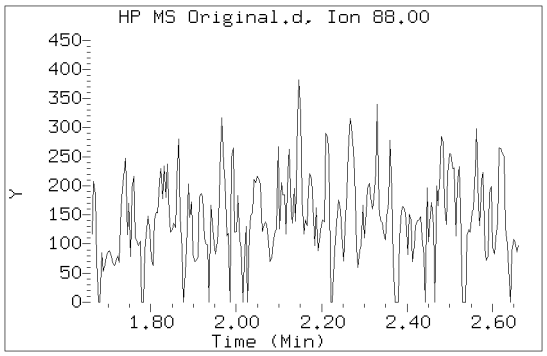
BEFORE
MASS
53
AREA
3552
HEIGHT
1939
08-Jun-2023
14:56
linh
pham



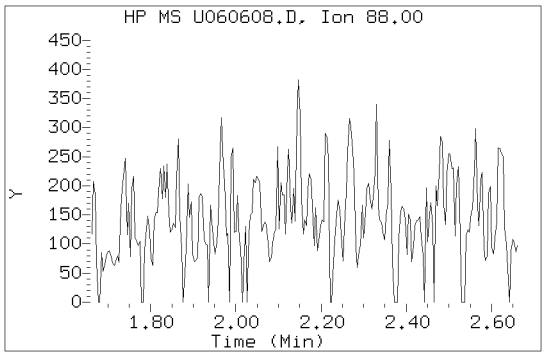

AFTER
MASS
53
AREA
3552
HEIGHT
1939
13-Jun-2023
13:00
linh
pham




BEFORE
MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



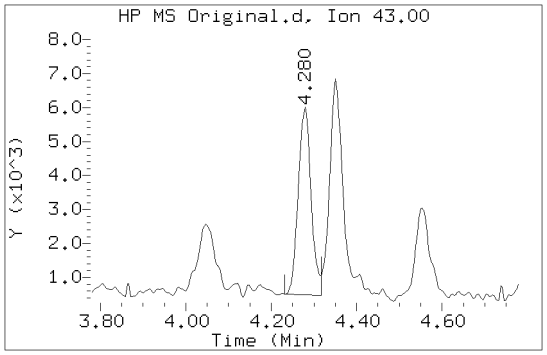

AFTER
MASS
88
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



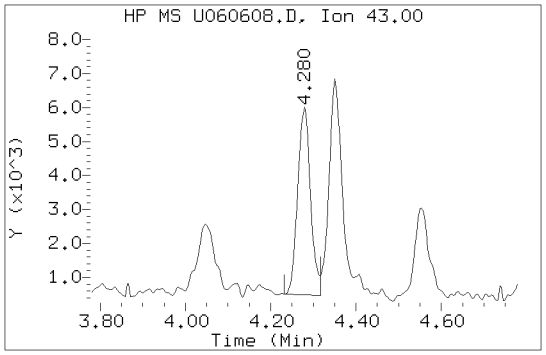

## Ethyl Acetate (141-78-6)

Reason Code:

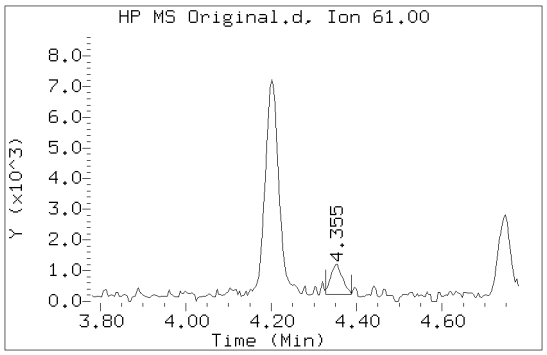
BEFORE
MASS
43
AREA
11855
HEIGHT
5517
08-Jun-2023
14:56
linh
pham



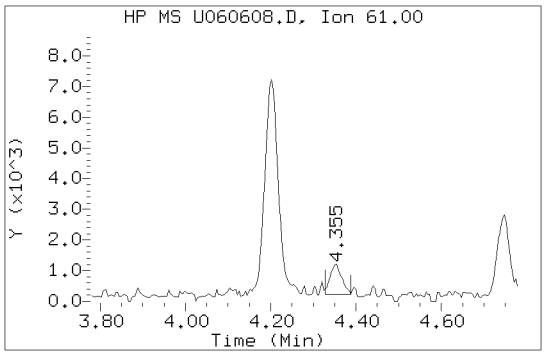

AFTER
MASS
43
AREA
11855
HEIGHT
5517
13-Jun-2023
13:00
linh
pham




BEFORE
MASS
61
AREA
1871
HEIGHT
977
08-Jun-2023
14:56
linh
pham




AFTER
MASS
61
AREA
1871
HEIGHT
977
13-Jun-2023
13:00
linh
pham



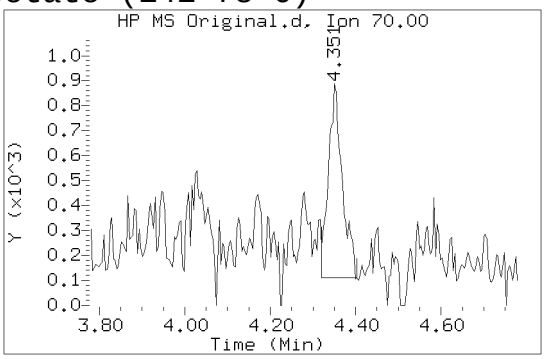
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

## Ethyl Acetate (141-78-6)

Reason Code:

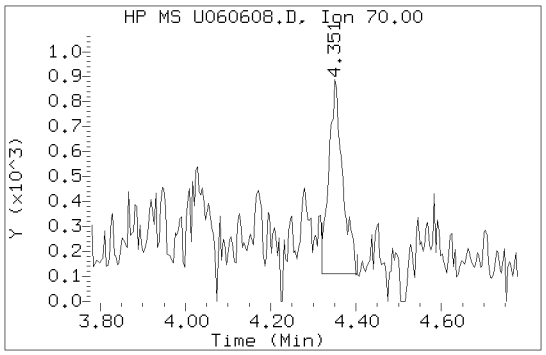
**BEFORE**

MASS
70
AREA
1750
HEIGHT
777
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
70
AREA
1750
HEIGHT
777
13-Jun-2023
13:00
linh
pham

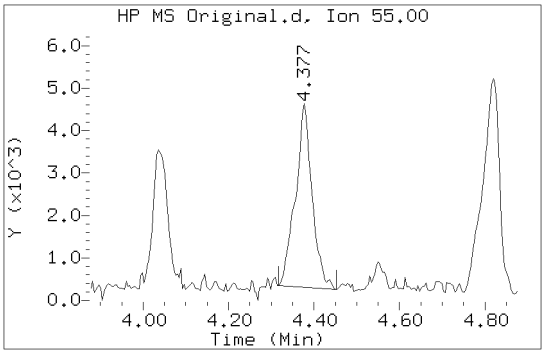



## Methyl Acrylate (96-33-3)

Reason Code:

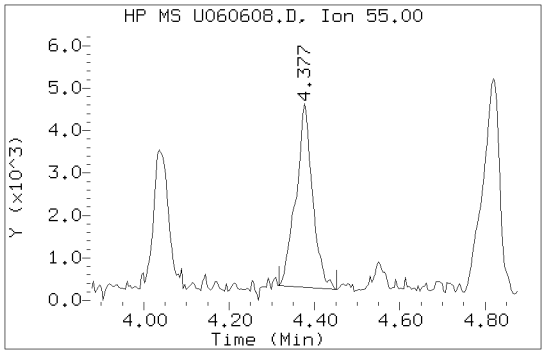
**BEFORE**

MASS
55
AREA
11843
HEIGHT
4323
08-Jun-2023
14:56
linh
pham



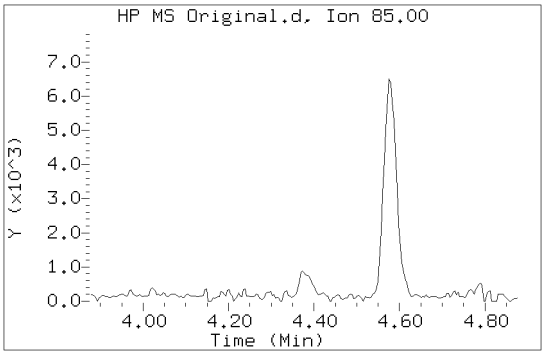

**AFTER**

MASS
55
AREA
11843
HEIGHT
4323
13-Jun-2023
13:00
linh
pham



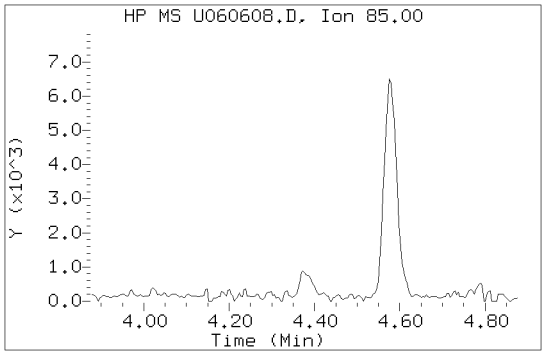

**BEFORE**

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
85
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

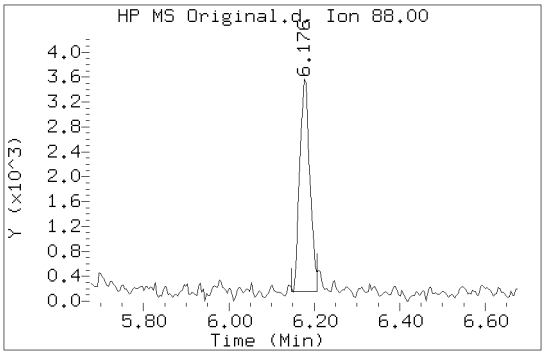



## 1,4-Dioxane ()

Reason Code:

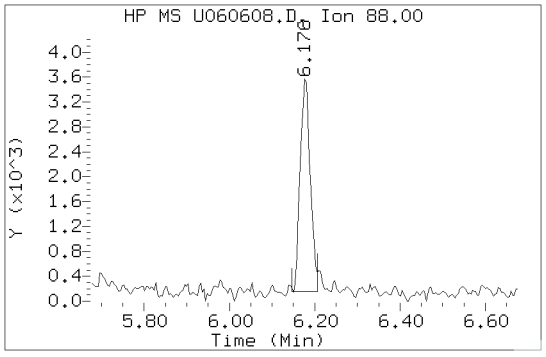
**BEFORE**

MASS
88
AREA
5764
HEIGHT
3411
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
88
AREA
5764
HEIGHT
3411
13-Jun-2023
13:00
linh
pham



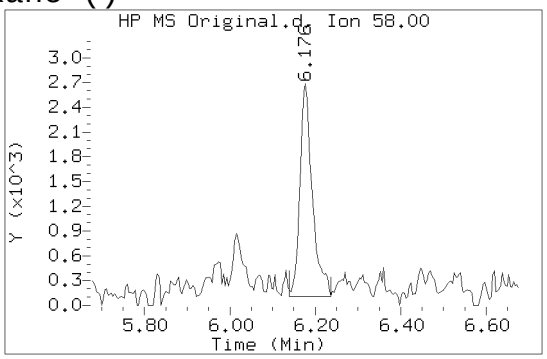
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

## 1,4-Dioxane ()

Reason Code:

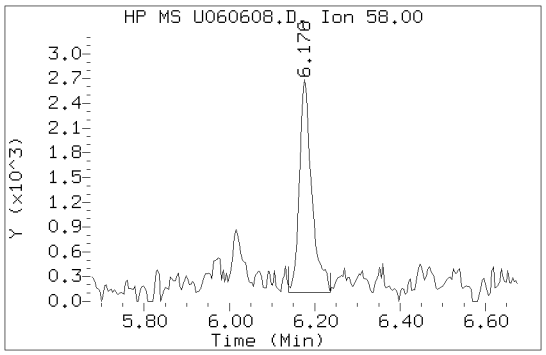
**BEFORE**

MASS
58
AREA
5271
HEIGHT
2575
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
58
AREA
5271
HEIGHT
2575
13-Jun-2023
13:00
linh
pham

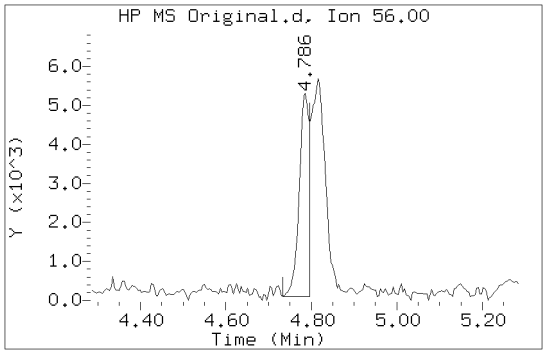



## Cyclohexane (110-82-7)

Reason Code:

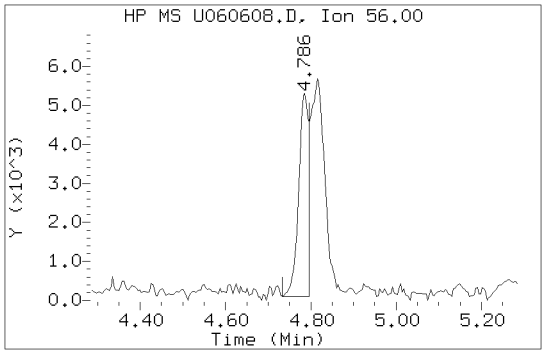
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HEIGHT
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08-Jun-2023
14:56
linh
pham



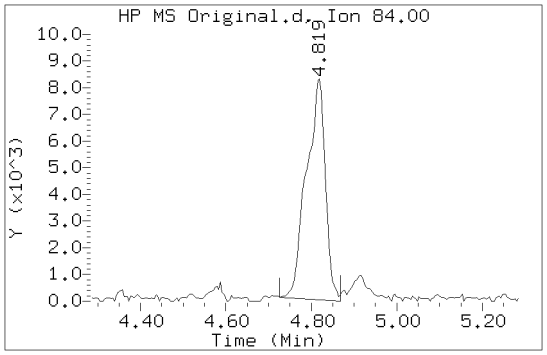

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13:00
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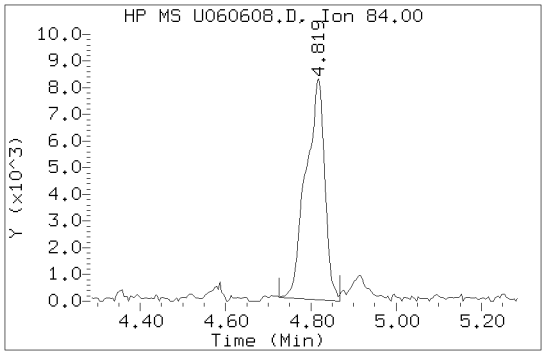

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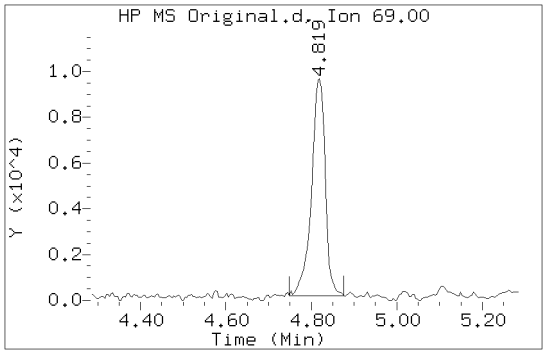

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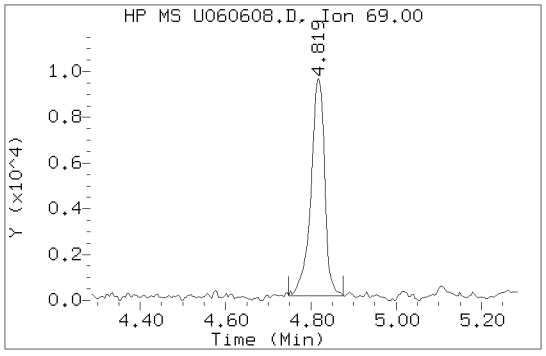

**BEFORE**

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9491
08-Jun-2023
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pham




**AFTER**

MASS
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AREA
21405
HEIGHT
9491
13-Jun-2023
13:00
linh
pham

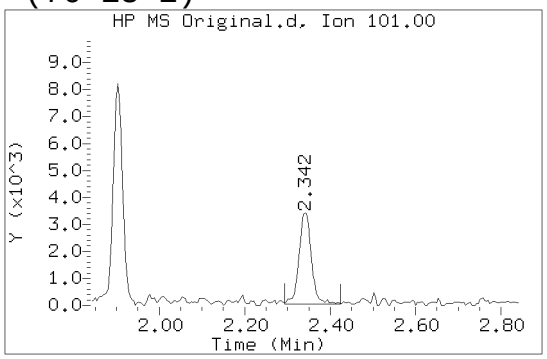


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Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

## Freon TF (76-13-1)

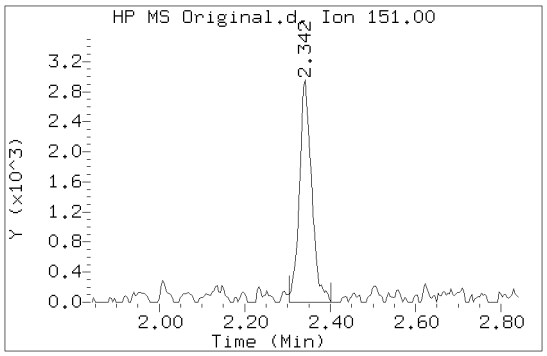
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6997
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3366
08-Jun-2023
14:56
linh
pham




### BEFORE

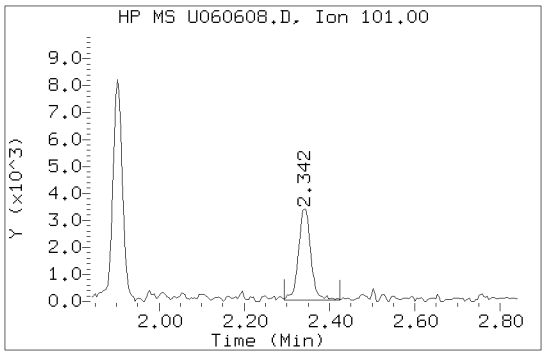
MASS
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2957
08-Jun-2023
14:56
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### Reason Code:

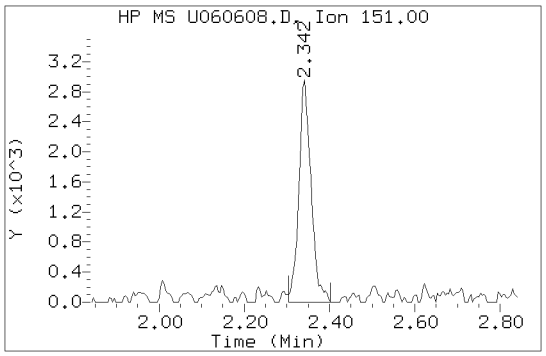
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13-Jun-2023
13:00
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### AFTER

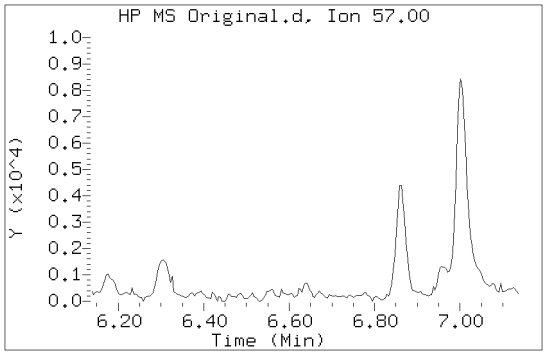
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HEIGHT
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13-Jun-2023
13:00
linh
pham




## Epichlorohydrin (106-89-8)

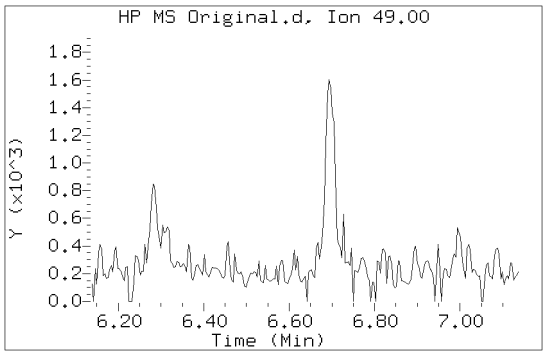
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08-Jun-2023
14:56
linh
pham




### BEFORE

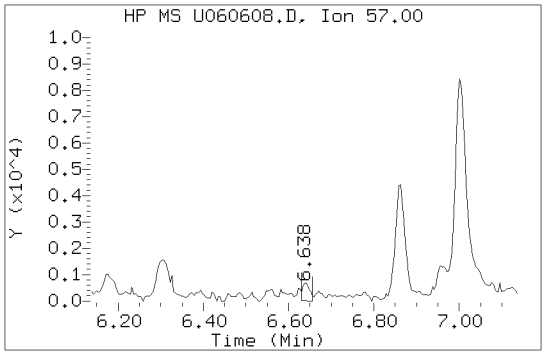
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08-Jun-2023
14:56
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### Reason Code:

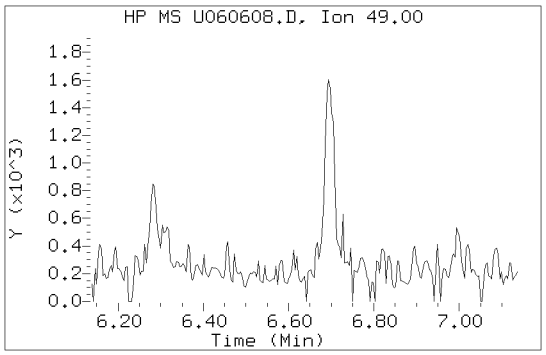
### AFTER

MASS
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671
13-Jun-2023
13:00
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### AFTER

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HEIGHT
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13-Jun-2023
13:00
linh
pham

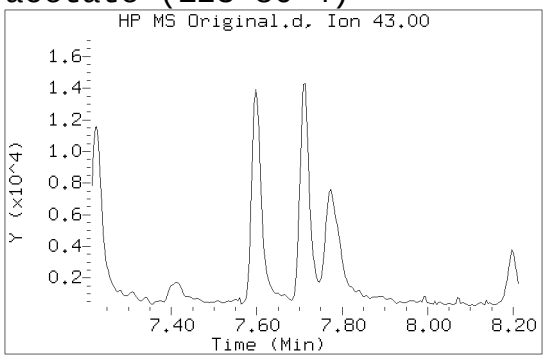


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InstruID : VOA9.i
LabSampID : VSTD002

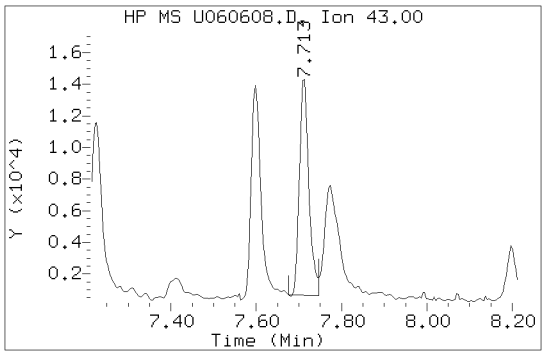
## n-Butyl acetate (123-86-4)

Reason Code:

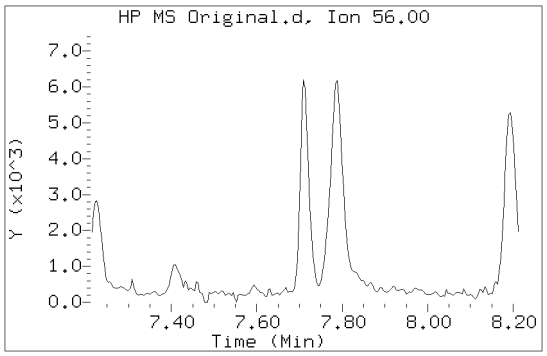
BEFORE
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HEIGHT
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08-Jun-2023
14:56
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pham



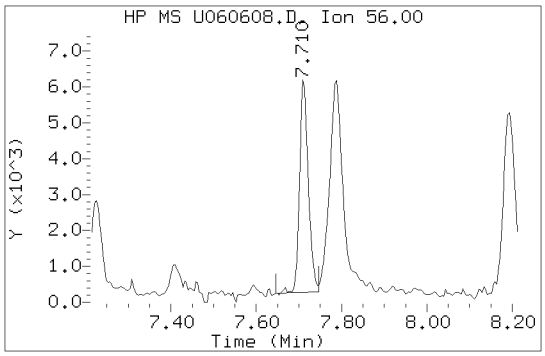

AFTER
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13-Jun-2023
13:00
linh
pham



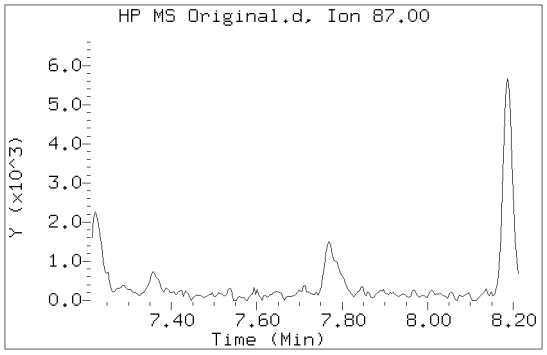

BEFORE
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08-Jun-2023
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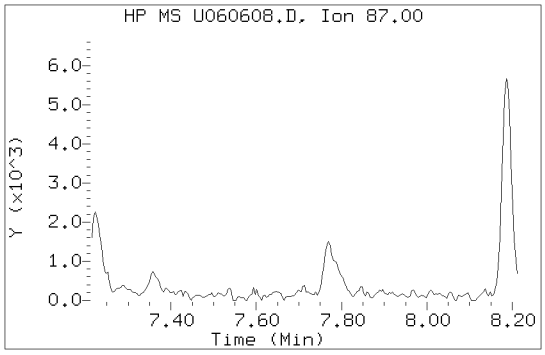

AFTER
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HEIGHT
5924
13-Jun-2023
13:00
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pham




BEFORE
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AREA
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HEIGHT
0
08-Jun-2023
14:56
linh
pham



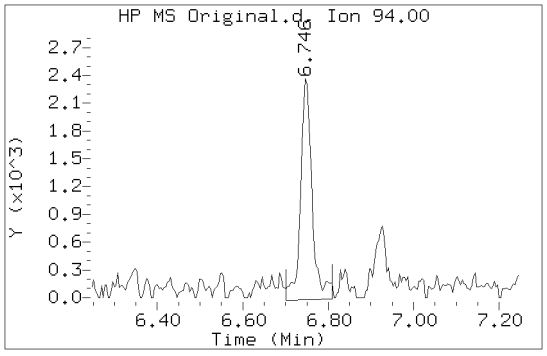

AFTER
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HEIGHT
0
13-Jun-2023
13:00
linh
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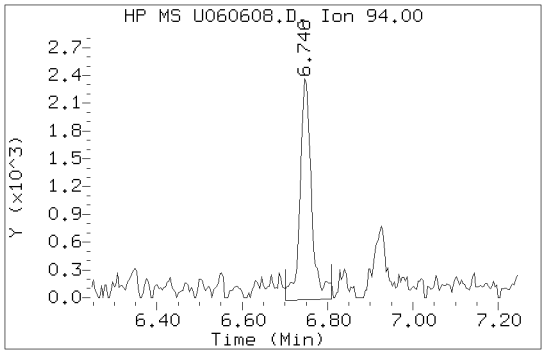

## Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE
MASS
94
AREA
4598
HEIGHT
2385
08-Jun-2023
14:56
linh
pham




AFTER
MASS
94
AREA
4598
HEIGHT
2385
13-Jun-2023
13:00
linh
pham



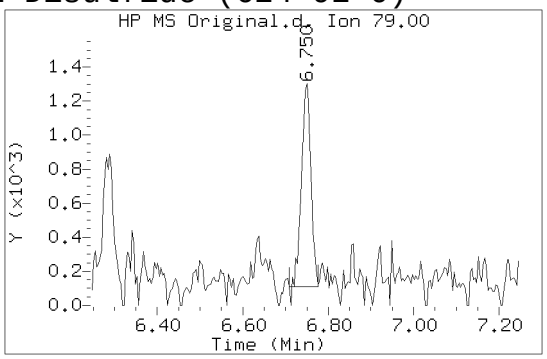
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Dimethyl Disulfide (624-92-0)

Reason Code:

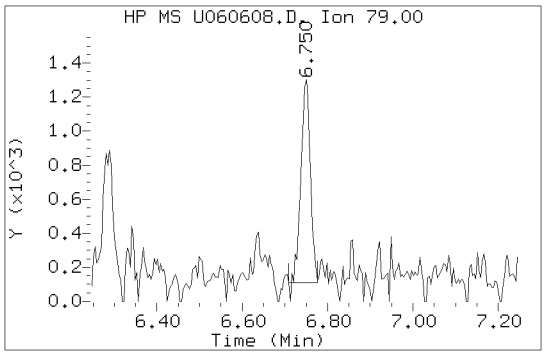
BEFORE

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HEIGHT
1191
08-Jun-2023
14:56
linh
pham



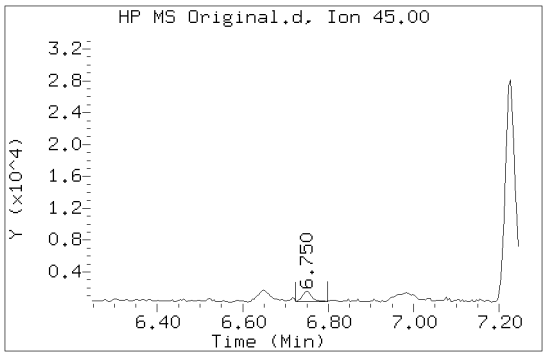

AFTER

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13-Jun-2023
13:00
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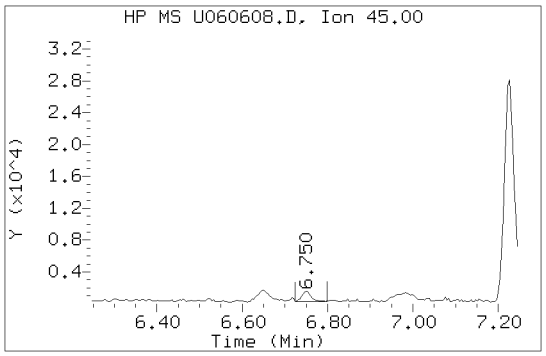

BEFORE

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HEIGHT
1245
08-Jun-2023
14:56
linh
pham




AFTER

MASS
45
AREA
1888
HEIGHT
1245
13-Jun-2023
13:00
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060609.D Page 1
Report Date: 21-Jun-2023 13:48

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060609.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 06-JUN-2023 14:13
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD020;VSTD020;1;6;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 14:13 Cal File: U060609.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.811 | 4.811 | (1.000) | 699800 | 50.0000 | |
| 2 Dichlorodifluoromethane | 85 | 1.156 | 1.156 | (0.240) | 134998 | 20.0000 | 20.92 |
| 3 Chloromethane | 50 | 1.291 | 1.291 | (0.268) | 243997 | 20.0000 | 22.39 |
| 5 Vinyl Chloride | 62 | 1.370 | 1.370 | (0.285) | 154975 | 20.0000 | 20.93 |
| 6 Bromomethane | 94 | 1.614 | 1.614 | (0.335) | 85360 | 20.0000 | 21.41 |
| 7 Chloroethane | 64 | 1.693 | 1.693 | (0.352) | 101661 | 20.0000 | 20.38 |
| 8 Trichlorofluoromethane | 101 | 1.891 | 1.891 | (0.393) | 186610 | 20.0000 | 21.95 |
| 9 Acrolein | 56 | 2.259 | 2.259 | (0.469) | 13555 | 40.0000 | 36.49 |
| 10 Acetone | 43 | 2.405 | 2.405 | (0.500) | 105410 | 40.0000 | 40.65 |
| 11 1,1-Dichloroethene | 96 | 2.326 | 2.326 | (0.483) | 106844 | 20.0000 | 20.11 |
| 15 Iodomethane | 142 | 2.465 | 2.465 | (0.512) | 69713 | 40.0000 | 25.52 |
| 16 Acrylonitrile | 53 | 3.061 | 3.061 | (0.636) | 100523 | 40.0000 | 38.73 |
| 17 Methylene Chloride | 84 | 2.791 | 2.791 | (0.580) | 133454 | 20.0000 | 20.31 |
| 18 Methyl tert-butyl ether | 73 | 3.076 | 3.076 | (0.639) | 301047 | 20.0000 | 18.48 |
| 19 Carbon Disulfide | 76 | 2.514 | 2.514 | (0.522) | 585546 | 40.0000 | 41.23 |
| 20 trans-1,2-Dichloroethene | 96 | 3.053 | 3.053 | (0.635) | 117673 | 20.0000 | 20.36 |
| 21 Vinyl Acetate | 43 | 3.604 | 3.604 | (0.749) | 686124 | 40.0000 | 38.96 |
| 22 1,1-Dichloroethane | 63 | 3.511 | 3.511 | (0.730) | 209138 | 20.0000 | 19.05 |
| 24 2-Butanone | 43 | 4.264 | 4.264 | (0.886) | 120643 | 40.0000 | 37.81 |
| 26 2,2-Dichloropropane | 77 | 4.178 | 4.178 | (0.868) | 139835 | 20.0000 | 19.51 |
| 27 cis-1,2-Dichloroethene | 96 | 4.193 | 4.193 | (0.871) | 136001 | 20.0000 | 19.67 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 28 | Chloroform | 83 | 4.568 | 4.568 (0.949) | 226645 | 20.0000 | 19.83 |
| 29 | Bromochloromethane | 128 | 4.467 | 4.467 (0.928) | 75232 | 20.0000 | 19.46 |

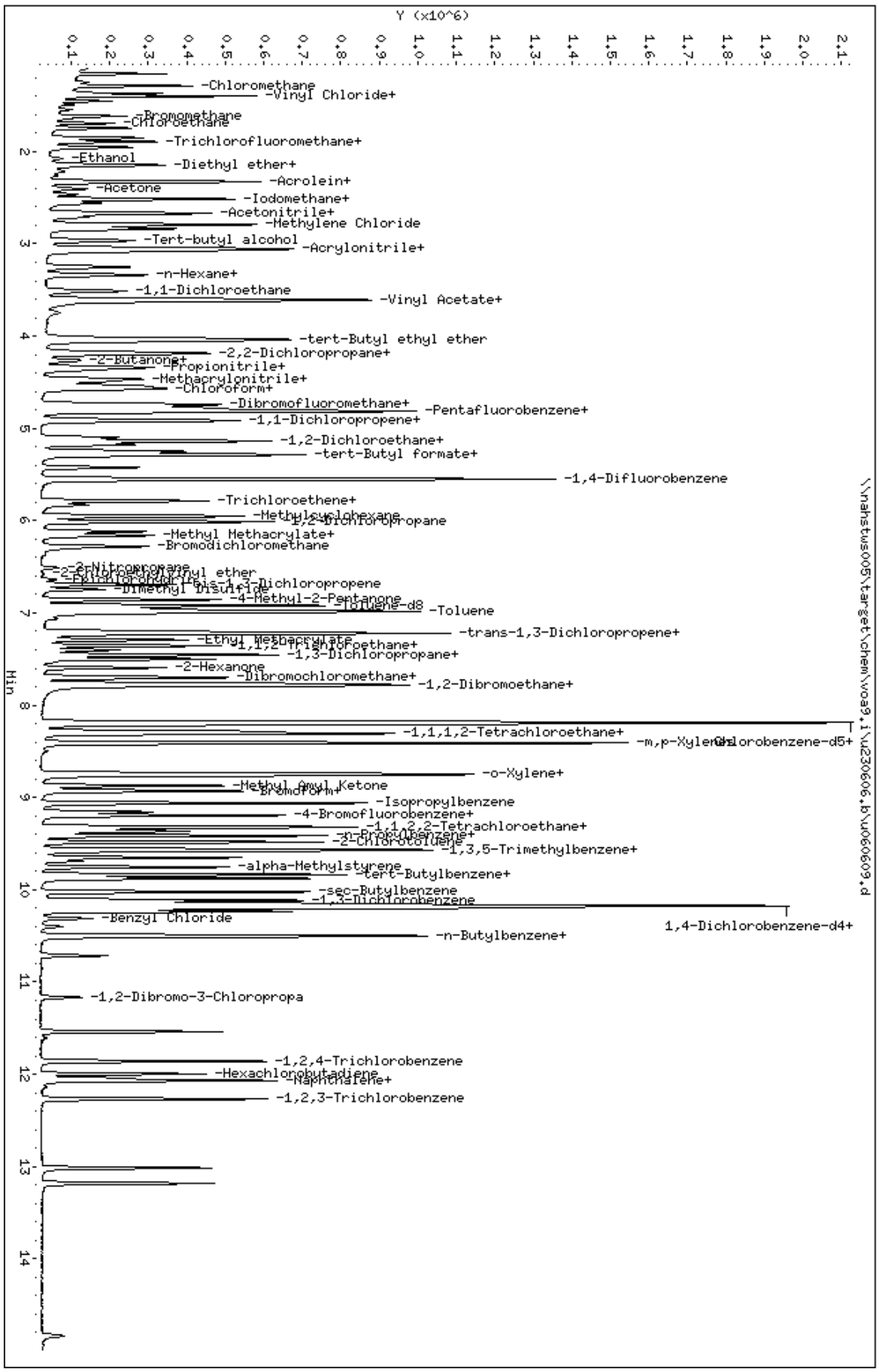
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| $ | 30 Dibromofluoromethane | 113 | 4.744 | 4.744 | (0.986) | 119153 | 20.0000 | 20.09 |
| | 31 1,1,1-Trichloroethane | 97 | 4.740 | 4.740 | (0.985) | 178912 | 20.0000 | 20.54 |
| | 32 1,1-Dichloropropene | 75 | 4.916 | 4.916 | (0.886) | 160757 | 20.0000 | 20.96 |
| | 33 1,2-Dichloroethane | 62 | 5.175 | 5.175 | (0.932) | 178788 | 20.0000 | 19.74 |
| | 34 Carbon Tetrachloride | 117 | 4.909 | 4.909 | (0.885) | 147458 | 20.0000 | 20.93 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.096 | 5.096 | (1.059) | 129564 | 20.0000 | 19.98 |
| * | 36 1,4-Difluorobenzene | 114 | 5.550 | 5.550 | (1.000) | 1046146 | 50.0000 | |
| | 37 Benzene | 78 | 5.138 | 5.138 | (0.926) | 516341 | 20.0000 | 20.48 |
| | 38 Trichloroethene | 130 | 5.786 | 5.786 | (1.043) | 145174 | 20.0000 | 19.86 |
| | 39 Bromodichloromethane | 83 | 6.277 | 6.277 | (1.131) | 153153 | 20.0000 | 19.47 |
| | 41 2-Chloroethylvinyl ether | 63 | 6.573 | 6.573 | (1.184) | 7046 | 40.0000 | 37.04(M) |
| | 42 1,2-Dichloropropane | 63 | 6.011 | 6.011 | (1.083) | 134169 | 20.0000 | 19.93 |
| | 44 Dibromomethane | 93 | 6.120 | 6.120 | (1.103) | 83709 | 20.0000 | 19.46 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.854 | 6.854 | (0.837) | 288078 | 40.0000 | 41.20 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.693 | 6.693 | (1.206) | 176588 | 20.0000 | 18.03 |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 960016 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.922 | (0.846) | 445555 | 20.0000 | 20.50 |
| | 50 Toluene | 91 | 6.982 | 6.982 | (0.853) | 554230 | 20.0000 | 21.28 |
| | 51 trans-1,3-Dichloropropene | 75 | 7.199 | 7.199 | (1.297) | 143978 | 20.0000 | 17.64 |
| | 52 2-Hexanone | 43 | 7.593 | 7.593 | (0.928) | 190529 | 40.0000 | 39.13 |
| | 53 1,1,2-Trichloroethane | 83 | 7.357 | 7.357 | (0.899) | 107394 | 20.0000 | 19.82 |
| | 54 1,3-Dichloropropane | 76 | 7.499 | 7.499 | (0.916) | 226819 | 20.0000 | 20.49 |
| | 55 Dibromochloromethane | 129 | 7.694 | 7.694 | (0.940) | 128911 | 20.0000 | 20.05 |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 133448 | 20.0000 | 21.03 |
| | 57 1,2-Dibromoethane | 107 | 7.784 | 7.784 | (0.951) | 132458 | 20.0000 | 19.81 |
| | 58 1-Chlorohexane | 55 | 8.197 | 8.197 | (1.477) | 111769 | 20.0000 | 20.80 |
| | 59 Chlorobenzene | 112 | 8.208 | 8.208 | (1.003) | 374064 | 20.0000 | 20.12 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 8.283 | 8.283 | (1.012) | 128313 | 20.0000 | 20.08 |
| | 61 Ethylbenzene | 106 | 8.305 | 8.305 | (1.015) | 179483 | 20.0000 | 20.75 |
| | 62 m,p-Xylenes | 106 | 8.410 | 8.410 | (1.027) | 421040 | 40.0000 | 41.14 |
| | 63 o-Xylene | 106 | 8.748 | 8.748 | (1.069) | 206194 | 20.0000 | 20.39 |
| | 64 Styrene | 104 | 8.763 | 8.763 | (1.071) | 318690 | 20.0000 | 19.86 |
| | 66 Bromoform | 173 | 8.920 | 8.920 | (1.090) | 81243 | 20.0000 | 18.72 |
| | 67 Isopropylbenzene | 105 | 9.062 | 9.062 | (1.107) | 516146 | 20.0000 | 21.25 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 9.329 | 9.329 | (0.917) | 178916 | 20.0000 | 19.34 |
| $ | 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 178335 | 20.0000 | 20.30 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 491623 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 9.362 | 9.362 | (0.920) | 151200 | 20.0000 | 18.58 |
| | 73 n-Propylbenzene | 91 | 9.411 | 9.411 | (0.925) | 527972 | 20.0000 | 20.47 |
| | 74 Bromobenzene | 156 | 9.317 | 9.317 | (0.916) | 165398 | 20.0000 | 19.93 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.561 | 9.561 | (0.940) | 338496 | 20.0000 | 19.13 |
| | 76 2-Chlorotoluene | 91 | 9.482 | 9.482 | (0.932) | 380446 | 20.0000 | 20.98 |
| | 77 4-Chlorotoluene | 91 | 9.576 | 9.576 | (0.941) | 415563 | 20.0000 | 20.71 |
| | 78 tert-Butylbenzene | 119 | 9.838 | 9.838 | (0.967) | 368922 | 20.0000 | 21.23 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.880 | 9.880 | (0.971) | 349187 | 20.0000 | 18.86 |
| | 81 sec-Butylbenzene | 105 | 10.022 | 10.022 | (0.985) | 457784 | 20.0000 | 20.77 |
| | 82 p-Isopropyltoluene | 119 | 10.146 | 10.146 | (0.997) | 348135 | 20.0000 | 18.85 |
| | 83 1,3-Dichlorobenzene | 146 | 10.116 | 10.116 | (0.994) | 280647 | 20.0000 | 19.92 |
| | 84 1,4-Dichlorobenzene | 146 | 10.191 | 10.191 | (1.002) | 292174 | 20.0000 | 19.45 |
| | 87 n-Butylbenzene | 91 | 10.491 | 10.491 | (1.031) | 319352 | 20.0000 | 20.20 |
| | 88 1,2-Dichlorobenzene | 146 | 10.506 | 10.506 | (1.033) | 281467 | 20.0000 | 19.92 |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 11.169 | 11.169 | (1.098) | 24061 | 20.0000 | 17.83 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 90 1,2,4-Trichlorobenzene | 180 | 11.859 | 11.859 (1.166) | 186288 | 20.0000 | 19.17 |
| 91 Hexachlorobutadiene | 225 | 11.998 | 11.998 (1.179) | 79518 | 20.0000 | 20.26 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 92 | Naphthalene | 128 | 12.069 | 12.069 | (1.186) | 445465 | 20.0000 | 19.73 |
| 93 | 1,2,3-Trichlorobenzene | 180 | 12.271 | 12.271 | (1.206) | 186329 | 20.0000 | 19.61 |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 253674 | 40.0000 | 40.04 |
| M 95 | Xylenes (total) | 106 | | | | 627234 | 60.0000 | 61.54 |
| 135 | 1,4-Dioxane | 88 | 6.168 | 6.168 | (1.282) | 38808 | 400.000 | 279.28(M) |
| 141 | Cyclohexane | 56 | 4.778 | 4.778 | (0.993) | 190495 | 20.0000 | 22.56 |
| 138 | Freon TF | 101 | 2.330 | 2.330 | (0.484) | 102379 | 20.0000 | 21.78 |
| 140 | 1,3-Butadiene | 54 | 1.396 | 1.396 | (0.290) | 143212 | 20.0000 | 21.60 |
| 147 | Methylcyclohexane | 55 | 5.947 | 5.947 | (1.072) | 271418 | 20.0000 | 18.70 |
| 146 | Methyl Acetate | 43 | 2.708 | 2.708 | (0.563) | 109689 | 20.0000 | 18.61 |
| 148 | Tert-Butyl alcohol | 59 | 2.963 | 2.963 | (0.616) | 255911 | 400.000 | 392.79 |
| 149 | Isopropyl Alcohol | 45 | 2.558 | 2.558 | (0.532) | 166234 | 400.000 | 363.36 |
| 72 | trans-1,4-Dichloro-2-butene | 53 | 9.377 | 9.377 | (1.146) | 18573 | 20.0000 | 16.80(M) |
| 12 | Isobutyl Alcohol | 43 | 5.288 | 5.288 | (1.099) | 360790 | 400.000 | 396.80(M) |
| 13 | Acetonitrile | 39 | 2.667 | 2.667 | (0.554) | 140672 | 200.000 | 185.67 |
| 14 | Allyl Chloride | 41 | 2.667 | 2.667 | (0.554) | 339917 | 20.0000 | 18.70 |
| 25 | Methacrylonitrile | 41 | 4.493 | 4.493 | (0.934) | 82790 | 20.0000 | 20.02 |
| 40 | Methyl Methacrylate | 41 | 6.157 | 6.157 | (1.280) | 116616 | 20.0000 | 19.38 |
| 4 | Propionitrile | 54 | 4.335 | 4.335 | (0.901) | 196157 | 200.000 | 193.97(a) |
| 136 | n-Hexane | 57 | 3.338 | 3.338 | (0.694) | 131033 | 20.0000 | 22.86 |
| 194 | Acetaldehyde | 44 | 1.453 | 1.453 | (0.302) | 80793 | 80.0000 | 83.70(M) |
| 131 | Methyl Acrylate | 55 | 4.365 | 4.365 | (0.907) | 140883 | 20.0000 | 19.03(M) |
| 200 | Dimethyl Disulfide | 94 | 6.746 | 6.746 | (0.824) | 75368 | 20.0000 | 14.42(M) |
| 23 | Chloroprene | 53 | 2.150 | 2.150 | (0.447) | 46564 | 20.0000 | 20.86(M) |
| 49 | Ethyl Methacrylate | 69 | 7.293 | 7.293 | (1.314) | 174530 | 20.0000 | 19.03 |
| 166 | 1,2,3-Trimethylbenzene | 105 | 10.236 | 10.236 | (1.006) | 336473 | 20.0000 | 17.80 |
| 167 | Ethanol | 45 | 2.075 | 2.075 | (0.431) | 33180 | 400.000 | 365.81 |
| 164 | Dicyclopentadiene | 66 | 10.202 | 10.202 | (1.003) | 430916 | 20.0000 | 17.96 |
| 145 | alpha-Methylstyrene | 118 | 9.756 | 9.756 | (0.959) | 141914 | 20.0000 | 17.83 |
| 142 | Tetrahydrofuran | 42 | 4.542 | 4.542 | (0.944) | 48081 | 40.0000 | 37.45 |
| 156 | Diisopropyl ether | 45 | 3.619 | 3.619 | (0.752) | 362787 | 20.0000 | 18.59 |
| 151 | 4-Methyl-2-pentanol | 45 | 7.222 | 7.222 | (1.301) | 598756 | 400.000 | 384.89 |
| 150 | Allyl alcohol | 57 | 3.338 | 3.338 | (0.694) | 131033 | 400.000 | 457.76 |
| 86 | Benzyl Chloride | 91 | 10.311 | 10.311 | (1.260) | 85763 | 20.0000 | 17.37 |
| 162 | Butyl acrylate | 55 | 8.733 | 8.733 | (1.067) | 214597 | 20.0000 | 18.89 |
| 139 | Diethyl ether | 59 | 2.139 | 2.139 | (0.445) | 88209 | 20.0000 | 18.65 |
| 203 | 2-Ethylhexyl Acrylate | 55 | 12.043 | 12.043 | (1.184) | 70007 | 20.0000 | 16.56 |
| 134 | Cyclohexanone | 55 | 9.156 | 9.156 | (0.900) | 110447 | 400.000 | 362.37(a) |
| 130 | Ethyl Acetate | 43 | 4.264 | 4.264 | (0.886) | 118985 | 20.0000 | 19.02(M) |
| 189 | n-Butyl acetate | 43 | 7.705 | 7.705 | (0.941) | 210444 | 20.0000 | 19.25(M) |
| 182 | Epichlorohydrin | 57 | 6.637 | 6.637 | (1.196) | 5384 | 80.0000 | 62.88 |
| 132 | n-Butanol | 56 | 5.831 | 5.831 | (1.212) | 67633 | 400.000 | 339.53(a) |

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\voa9,i\u230606,b\u060609,d
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Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;6;
Purge Volume: 5.0
Column phase: DB624

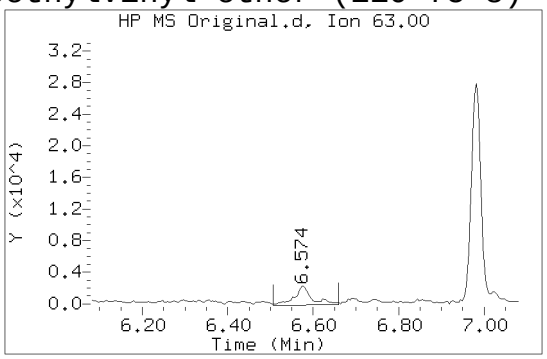
Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

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LabSampID : VSTD020

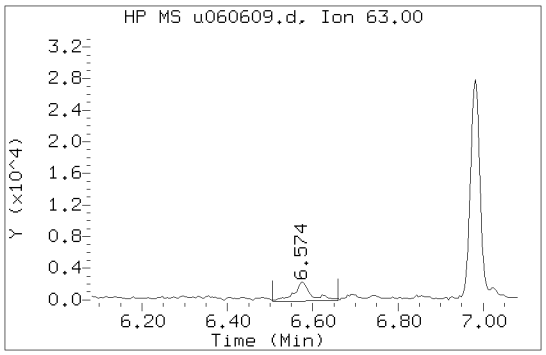
## 2-Chloroethylvinyl ether (110-75-8)

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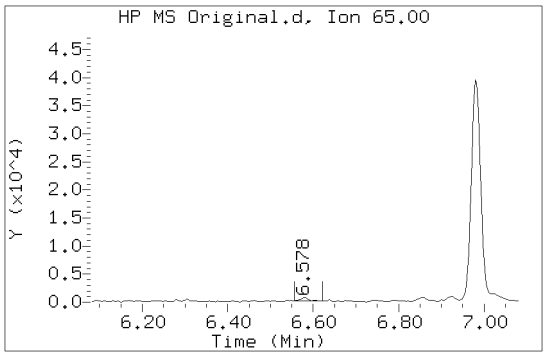
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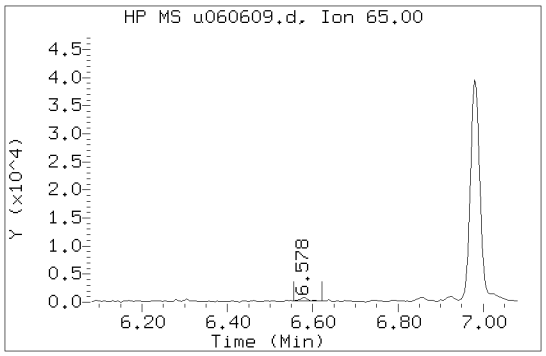

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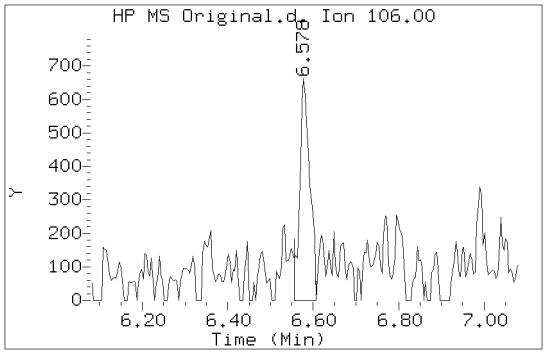

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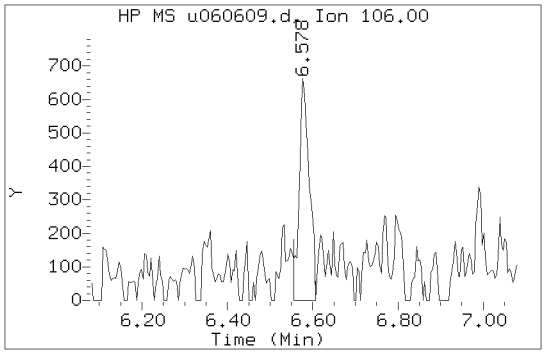

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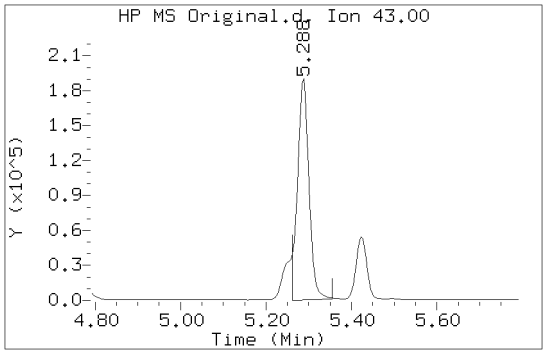

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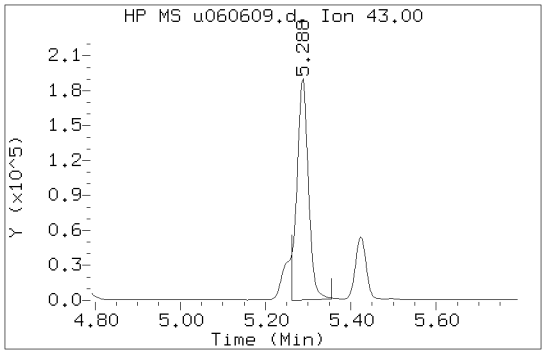

## Isobutyl Alcohol (78-83-1)

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AFTER
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21-Jun-2023
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linh
pha

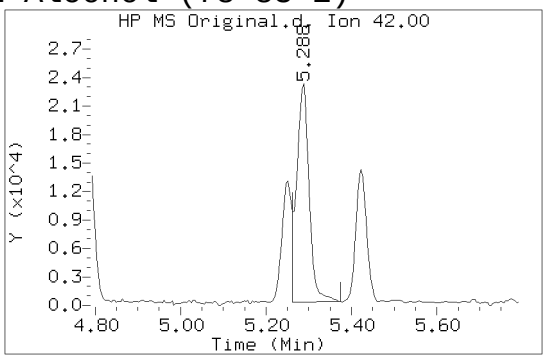


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LabSampID : VSTD020

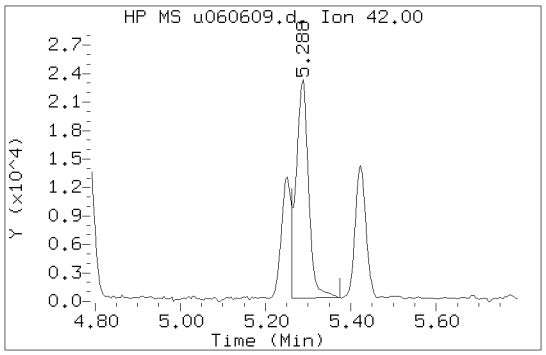
## Isobutyl Alcohol (78-83-1)

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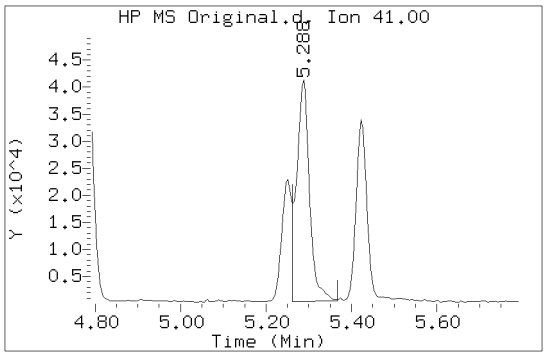
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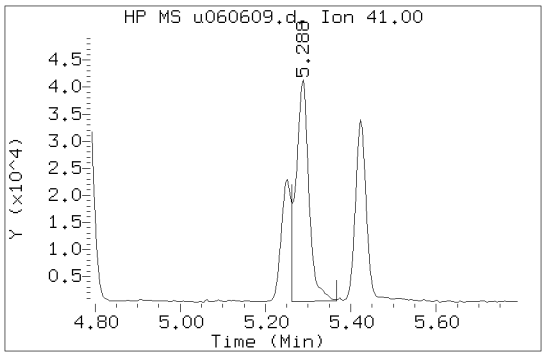

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21-Jun-2023
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08-Jun-2023
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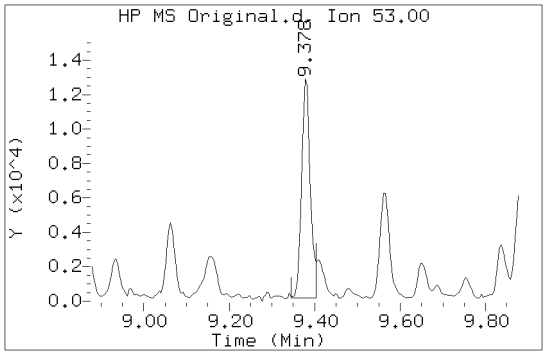

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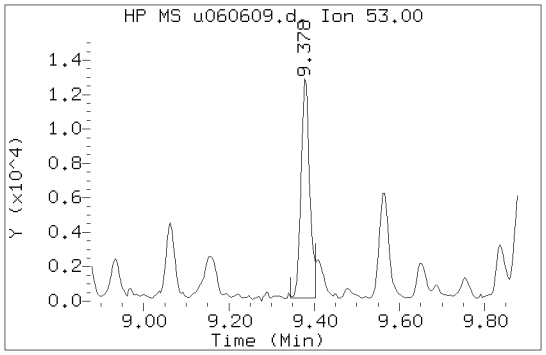

## trans-1,4-Dichloro-2-butene (110-57-6)

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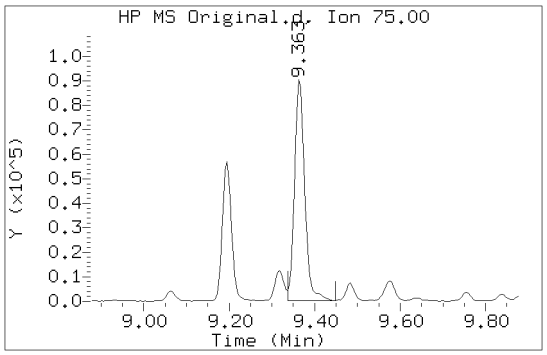
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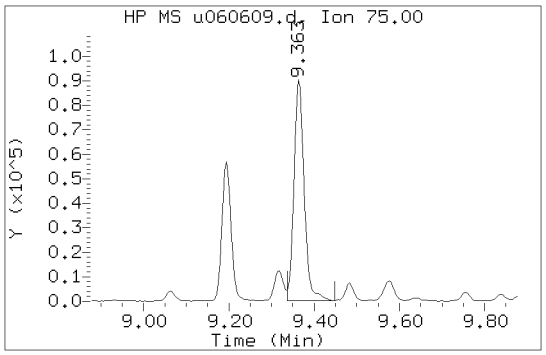

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pha




BEFORE
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HEIGHT
90329
08-Jun-2023
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AFTER
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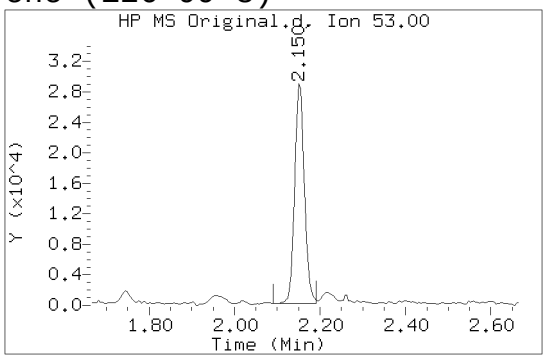


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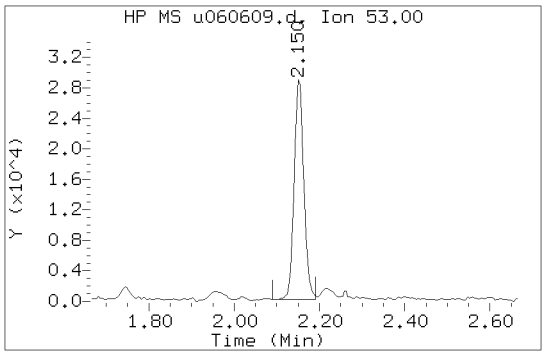
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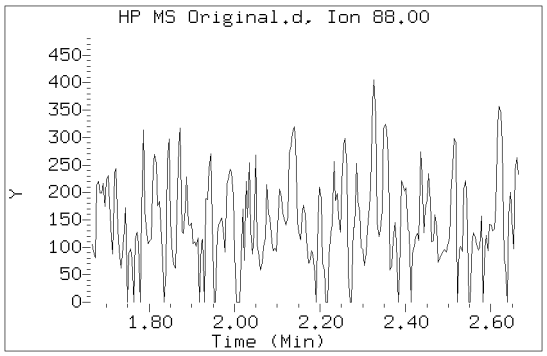
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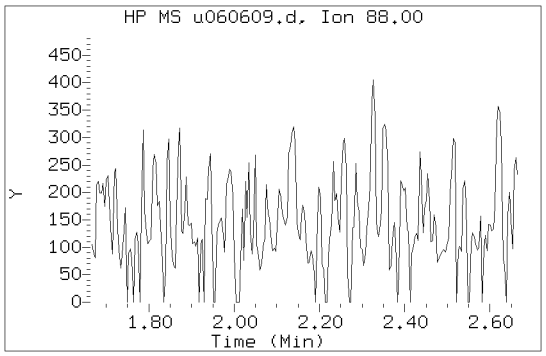

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BEFORE
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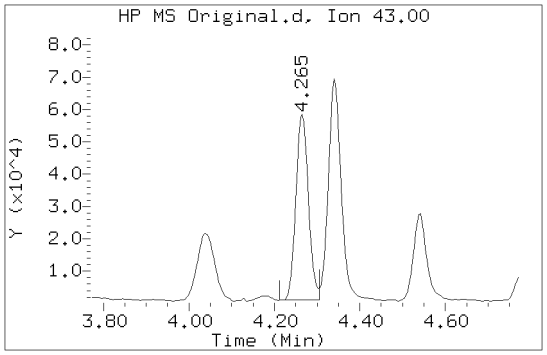

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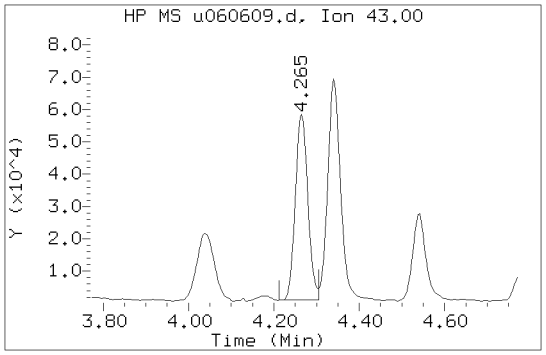

## Ethyl Acetate (141-78-6)

Reason Code:

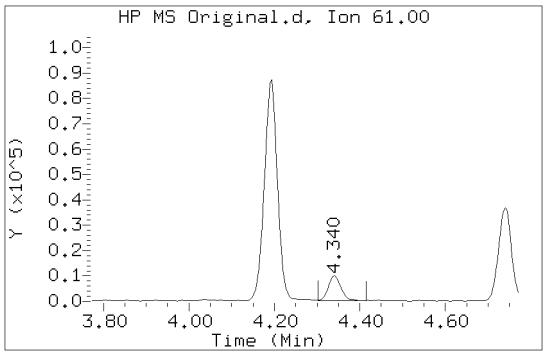
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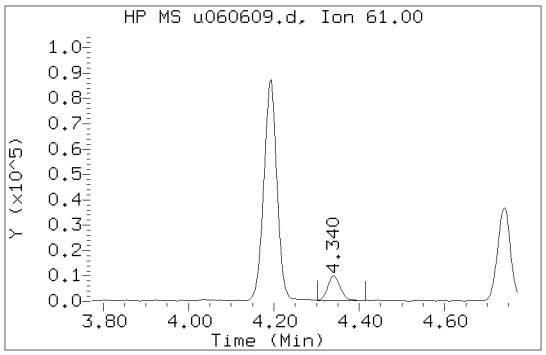

AFTER
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21-Jun-2023
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BEFORE
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9732
08-Jun-2023
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AFTER
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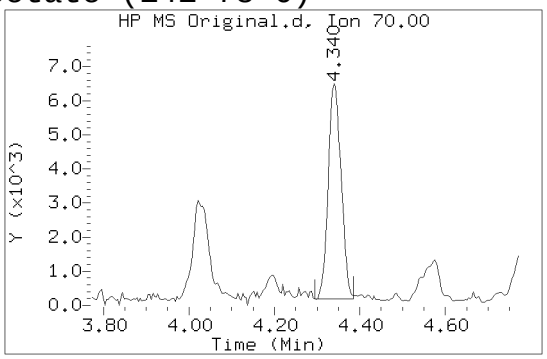
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LabSampID : VSTD020

## Ethyl Acetate (141-78-6)

Reason Code:

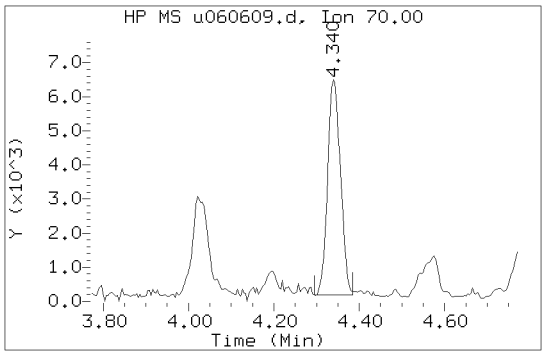
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**AFTER**

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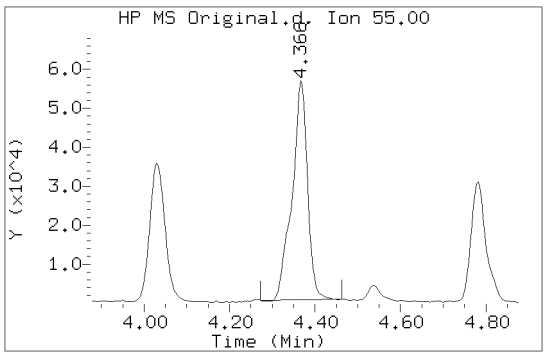



## Methyl Acrylate (96-33-3)

Reason Code:

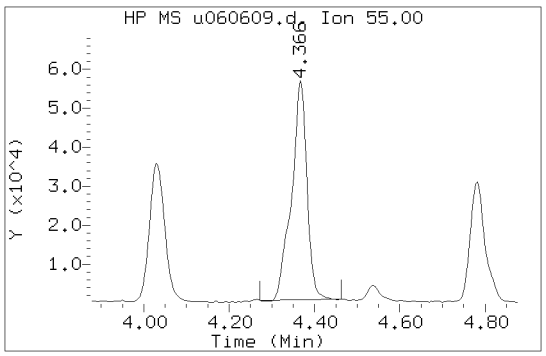
**BEFORE**

MASS
55
AREA
140883
HEIGHT
56149
08-Jun-2023
14:56
linh
pham



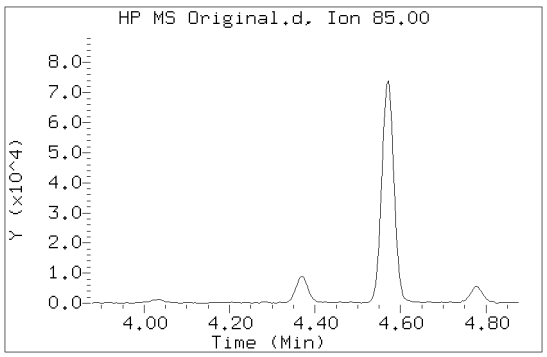

**AFTER**

MASS
55
AREA
140883
HEIGHT
56149
21-Jun-2023
13:48
linh
pha



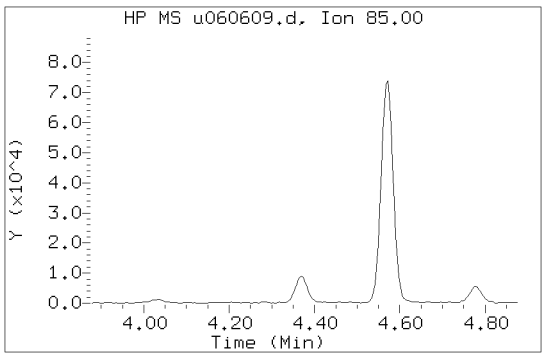

**BEFORE**

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha

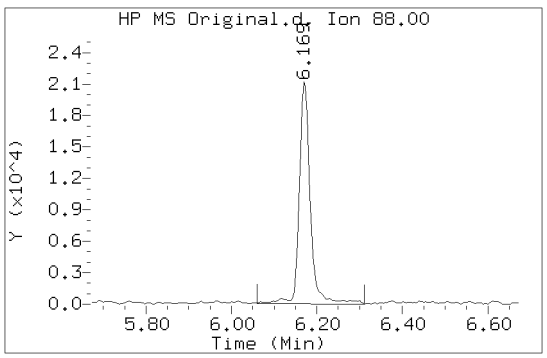



## 1,4-Dioxane ()

Reason Code:

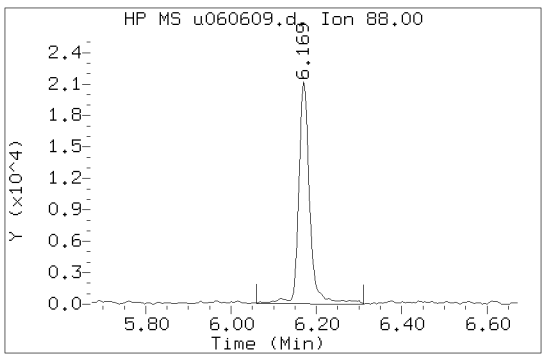
**BEFORE**

MASS
88
AREA
38808
HEIGHT
21163
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
88
AREA
38808
HEIGHT
21163
21-Jun-2023
13:48
linh
pha



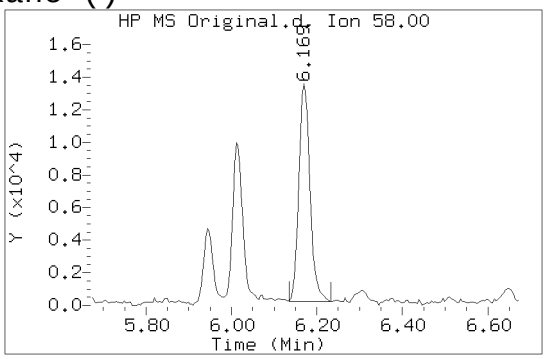
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Inj Date : 06-JUN-2023 14:13
InstruID : VOA9.i
LabSampID : VSTD020

## 1,4-Dioxane ()

Reason Code:

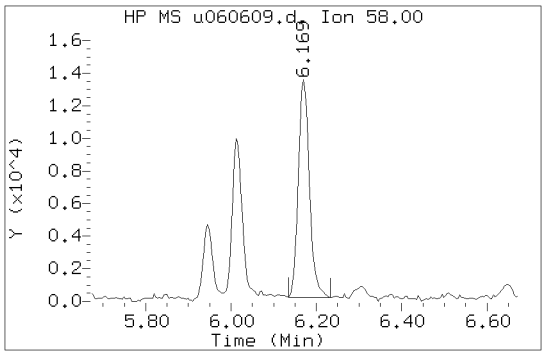
**BEFORE**

MASS
58
AREA
24573
HEIGHT
13347
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
58
AREA
24573
HEIGHT
13347
21-Jun-2023
13:48
linh
pha

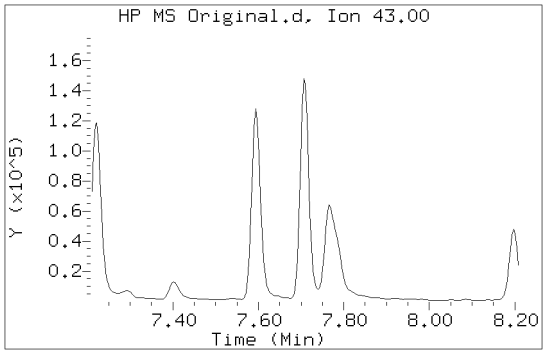



## n-Butyl acetate (123-86-4)

Reason Code:

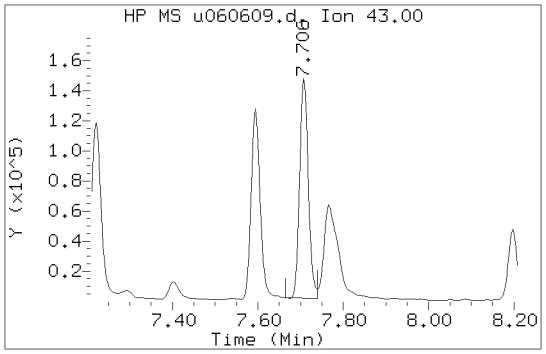
**BEFORE**

MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



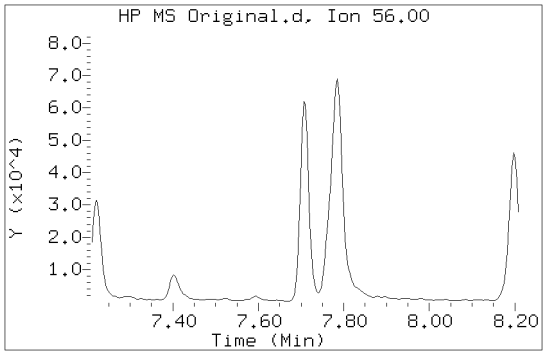

**AFTER**

MASS
43
AREA
210444
HEIGHT
145880
21-Jun-2023
13:48
linh
pha



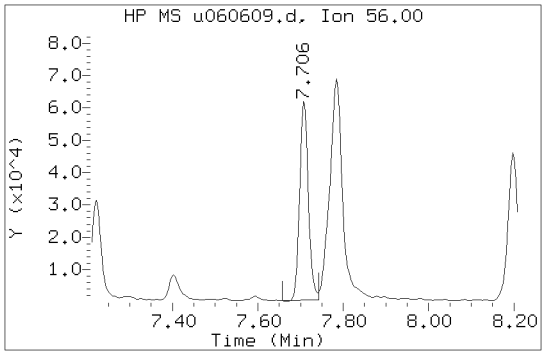

**BEFORE**

MASS
56
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



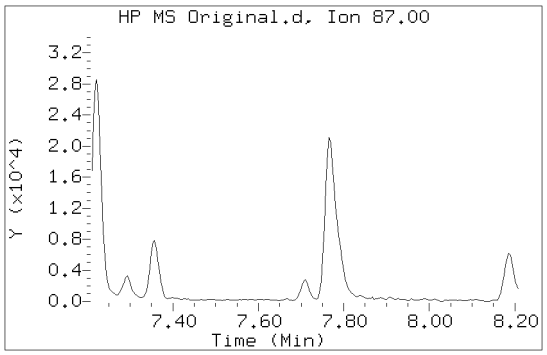

**AFTER**

MASS
56
AREA
89395
HEIGHT
61609
21-Jun-2023
13:48
linh
pha



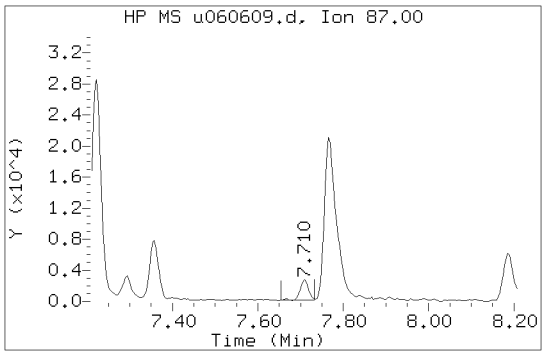

**BEFORE**

MASS
87
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
87
AREA
3612
HEIGHT
2635
21-Jun-2023
13:48
linh
pha



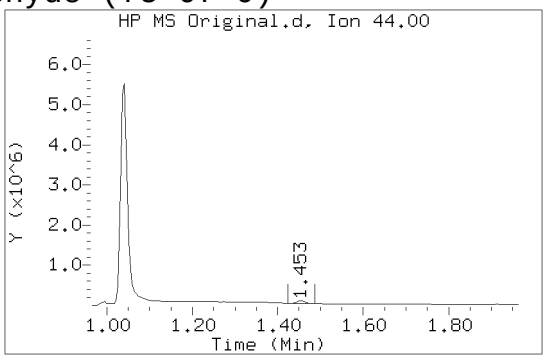
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060609.d
Inj Date : 06-JUN-2023 14:13
InstruID : VOA9.i
LabSampID : VSTD020

## Acetaldehyde (75-07-0)

Reason Code:

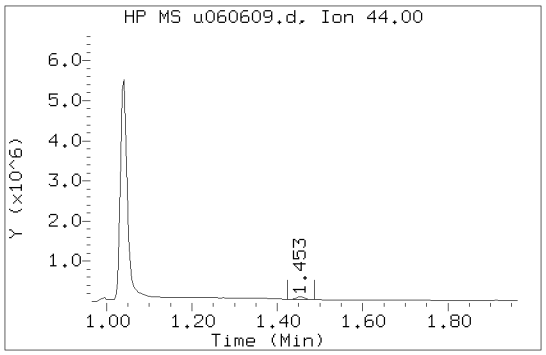
**BEFORE**

MASS
44
AREA
80793
HEIGHT
67878
08-Jun-2023
14:56
linh
pham



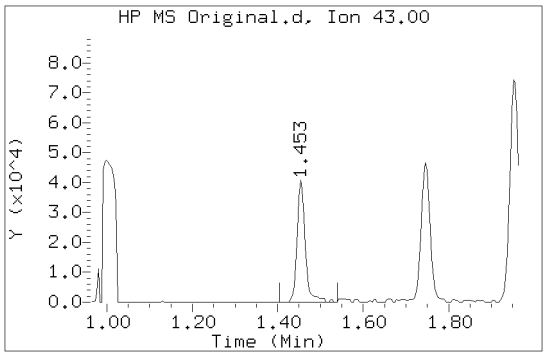

**AFTER**

MASS
44
AREA
80793
HEIGHT
67878
21-Jun-2023
13:48
linh
pha



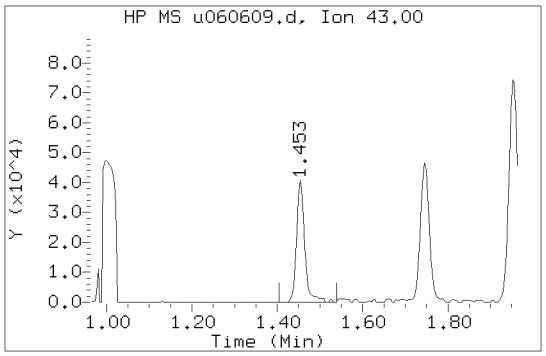

**BEFORE**

MASS
43
AREA
54539
HEIGHT
40760
08-Jun-2023
14:56
linh
pham



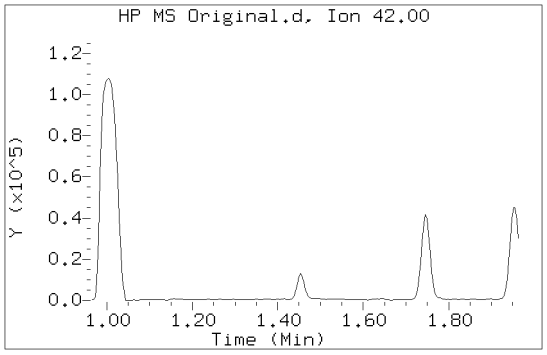

**AFTER**

MASS
43
AREA
54539
HEIGHT
40760
21-Jun-2023
13:48
linh
pha



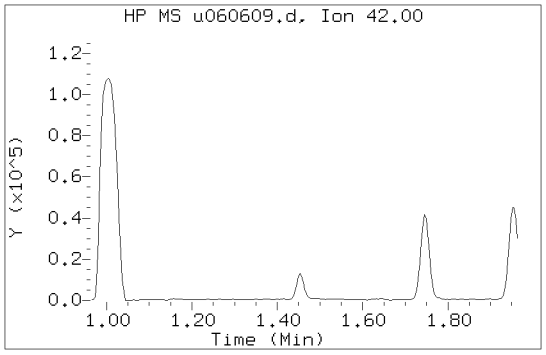

**BEFORE**

MASS
42
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
42
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha

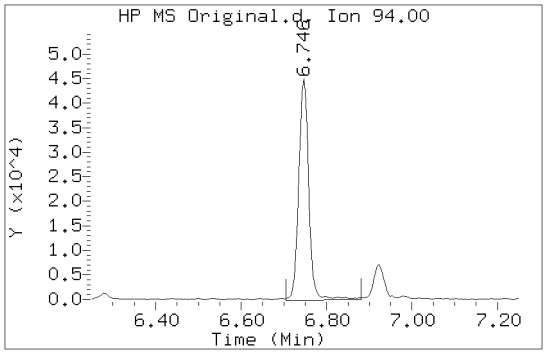



## Dimethyl Disulfide (624-92-0)

Reason Code:

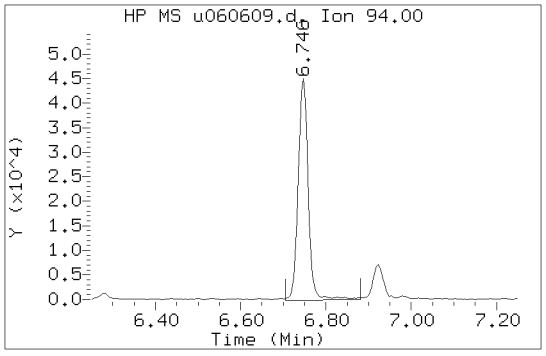
**BEFORE**

MASS
94
AREA
75368
HEIGHT
45120
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
94
AREA
75368
HEIGHT
45120
21-Jun-2023
13:48
linh
pha



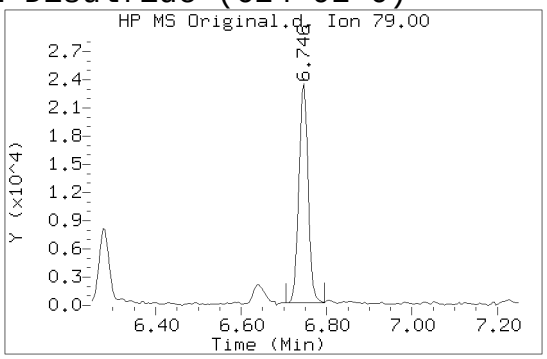
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060609.d
Inj Date : 06-JUN-2023 14:13
InstruID : VOA9.i
LabSampID : VSTD020

## Dimethyl Disulfide (624-92-0)

Reason Code:

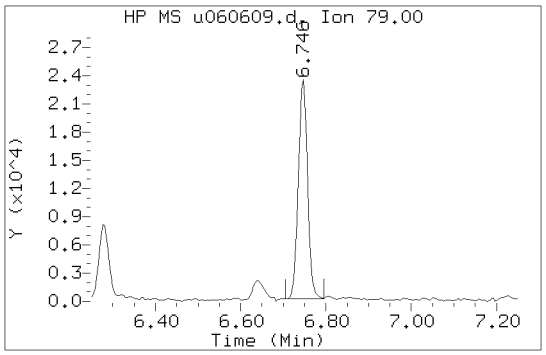
**BEFORE**

MASS
79
AREA
35599
HEIGHT
23323
08-Jun-2023
14:56
linh
pham



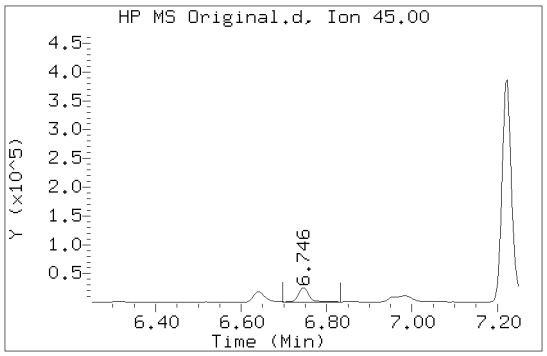

**AFTER**

MASS
79
AREA
35599
HEIGHT
23323
21-Jun-2023
13:48
linh
pha



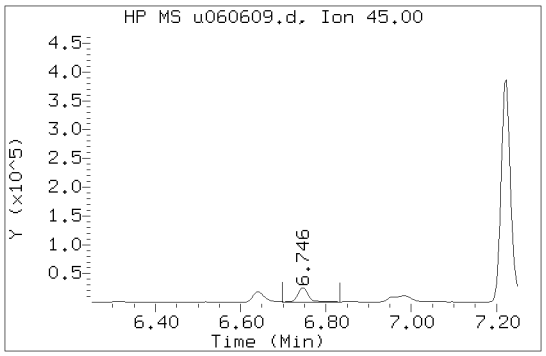

**BEFORE**

MASS
45
AREA
45369
HEIGHT
24788
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
45
AREA
45369
HEIGHT
24788
21-Jun-2023
13:48
linh
pha



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060610.D Page 1
Report Date: 21-Jun-2023 13:49

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060610.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 06-JUN-2023 14:35
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;1;7;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:49 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 15:41 Cal File: U060613.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.819 | 4.819 | (1.000) | 676524 | 50.0000 | |
| 2 | Dichlorodifluoromethane | 85 | 1.168 | 1.168 | (0.242) | 301782 | 50.0000 | 48.28 |
| 3 | Chloromethane | 50 | 1.303 | 1.303 | (0.270) | 533277 | 50.0000 | 52.32 |
| 5 | Vinyl Chloride | 62 | 1.381 | 1.381 | (0.287) | 371826 | 50.0000 | 51.96 |
| 6 | Bromomethane | 94 | 1.625 | 1.625 | (0.337) | 189385 | 50.0000 | 51.52 |
| 7 | Chloroethane | 64 | 1.704 | 1.704 | (0.354) | 235929 | 50.0000 | 48.94 |
| 8 | Trichlorofluoromethane | 101 | 1.903 | 1.903 | (0.395) | 408187 | 50.0000 | 49.66 |
| 9 | Acrolein | 56 | 2.270 | 2.270 | (0.471) | 34711 | 100.000 | 96.66 |
| 10 | Acetone | 43 | 2.416 | 2.416 | (0.501) | 245967 | 100.000 | 106.19 |
| 11 | 1,1-Dichloroethene | 96 | 2.337 | 2.337 | (0.485) | 253953 | 50.0000 | 49.45 |
| 15 | Iodomethane | 142 | 2.476 | 2.476 | (0.514) | 311144 | 100.000 | 80.01 |
| 16 | Acrylonitrile | 53 | 3.072 | 3.072 | (0.638) | 238722 | 100.000 | 95.15 |
| 17 | Methylene Chloride | 84 | 2.798 | 2.798 | (0.581) | 313459 | 50.0000 | 50.82 |
| 18 | Methyl tert-butyl ether | 73 | 3.087 | 3.087 | (0.641) | 751017 | 50.0000 | 47.69 |
| 19 | Carbon Disulfide | 76 | 2.525 | 2.525 | (0.524) | 1424175 | 100.000 | 103.74 |
| 20 | trans-1,2-Dichloroethene | 96 | 3.065 | 3.065 | (0.636) | 287983 | 50.0000 | 51.56 |
| 21 | Vinyl Acetate | 43 | 3.612 | 3.612 | (0.750) | 1688425 | 100.000 | 99.18 |
| 22 | 1,1-Dichloroethane | 63 | 3.522 | 3.522 | (0.731) | 510453 | 50.0000 | 48.09 |
| 24 | 2-Butanone | 43 | 4.272 | 4.272 | (0.886) | 284571 | 100.000 | 92.25 |
| 26 | 2,2-Dichloropropane | 77 | 4.185 | 4.185 | (0.869) | 344673 | 50.0000 | 49.12 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 27 | cis-1,2-Dichloroethene | 96 | 4.200 | 4.200 (0.872) | 330459 | 50.0000 | 49.46 |
| 28 | Chloroform | 83 | 4.579 | 4.579 (0.950) | 553969 | 50.0000 | 50.15 |

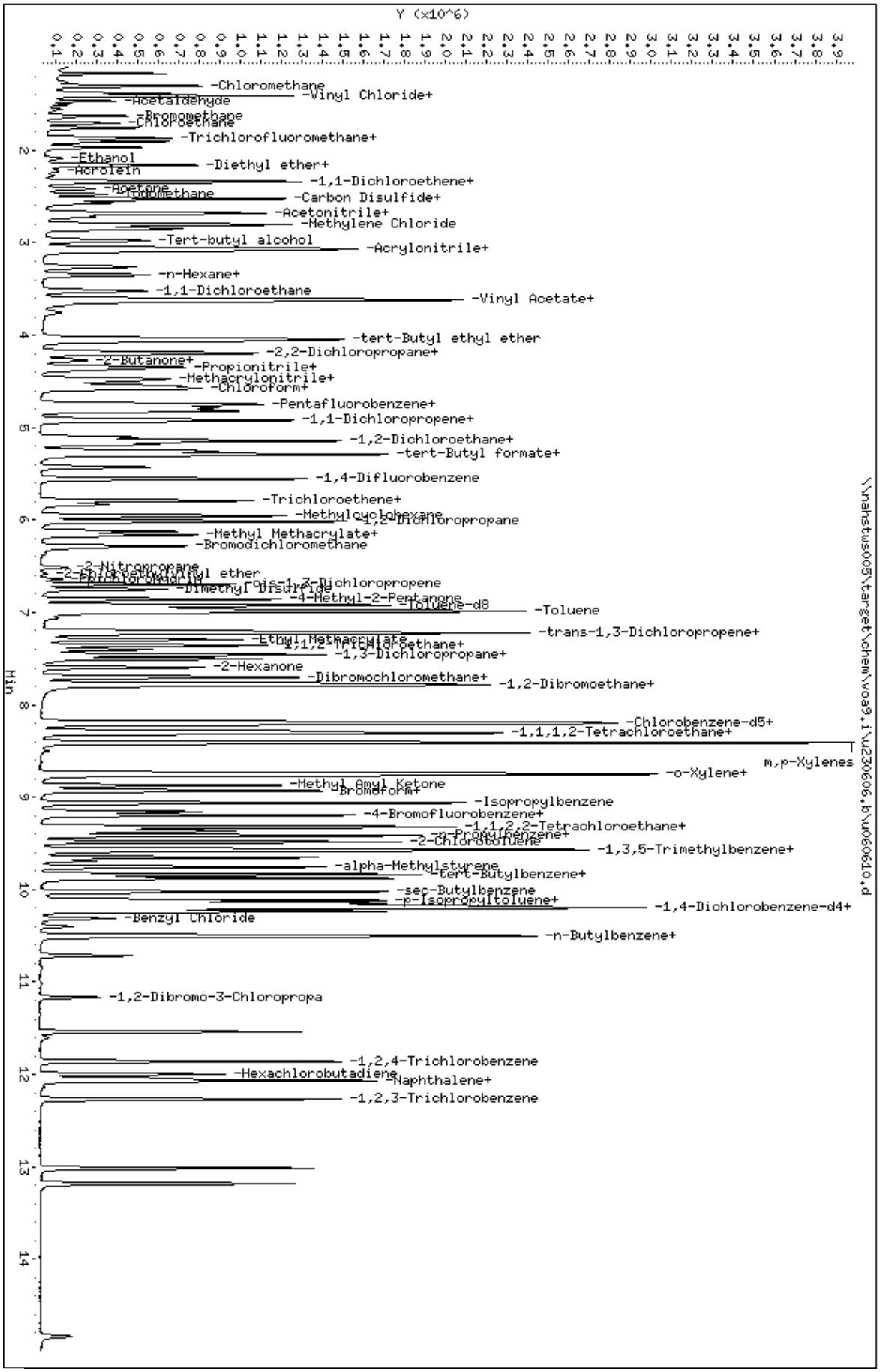
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 29 Bromochloromethane | 128 | 4.474 | 4.474 | (0.928) | 180688 | 50.0000 | 48.34 |
| $ | 30 Dibromofluoromethane | 113 | 4.752 | 4.752 | (0.986) | 271537 | 50.0000 | 47.80 |
| | 31 1,1,1-Trichloroethane | 97 | 4.744 | 4.744 | (0.984) | 427820 | 50.0000 | 50.81 |
| | 32 1,1-Dichloropropene | 75 | 4.924 | 4.924 | (0.886) | 378122 | 50.0000 | 50.72 |
| | 33 1,2-Dichloroethane | 62 | 5.179 | 5.179 | (0.932) | 428044 | 50.0000 | 48.61 |
| | 34 Carbon Tetrachloride | 117 | 4.913 | 4.913 | (0.884) | 352021 | 50.0000 | 51.40 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.058) | 303470 | 50.0000 | 49.38 |
| * | 36 1,4-Difluorobenzene | 114 | 5.557 | 5.557 | (1.000) | 1017200 | 50.0000 | |
| | 37 Benzene | 78 | 5.141 | 5.141 | (0.925) | 1252175 | 50.0000 | 51.08 |
| | 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.042) | 345905 | 50.0000 | 48.68 |
| | 39 Bromodichloromethane | 83 | 6.281 | 6.281 | (1.130) | 388938 | 50.0000 | 50.86 |
| | 41 2-Chloroethylvinyl ether | 63 | 6.581 | 6.581 | (1.184) | 17983 | 100.000 | 97.24(M) |
| | 42 1,2-Dichloropropane | 63 | 6.015 | 6.015 | (1.082) | 326747 | 50.0000 | 49.92 |
| | 44 Dibromomethane | 93 | 6.124 | 6.124 | (1.102) | 203401 | 50.0000 | 48.64 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.858 | 6.858 | (0.838) | 697558 | 100.000 | 98.05 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.693 | 6.693 | (1.204) | 477156 | 50.0000 | 46.71 |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 976881 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.922 | (0.846) | 1047714 | 50.0000 | 47.38(M) |
| | 50 Toluene | 91 | 6.982 | 6.982 | (0.853) | 1342745 | 50.0000 | 50.67 |
| | 51 trans-1,3-Dichloropropene | 75 | 7.199 | 7.199 | (1.295) | 395477 | 50.0000 | 46.15 |
| | 52 2-Hexanone | 43 | 7.593 | 7.593 | (0.928) | 463757 | 100.000 | 93.61 |
| | 53 1,1,2-Trichloroethane | 83 | 7.357 | 7.357 | (0.899) | 255402 | 50.0000 | 46.32 |
| | 54 1,3-Dichloropropane | 76 | 7.499 | 7.499 | (0.916) | 550839 | 50.0000 | 48.90 |
| | 55 Dibromochloromethane | 129 | 7.694 | 7.694 | (0.940) | 344538 | 50.0000 | 52.67 |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 304966 | 50.0000 | 47.24 |
| | 57 1,2-Dibromoethane | 107 | 7.788 | 7.788 | (0.951) | 322319 | 50.0000 | 47.39 |
| | 58 1-Chlorohexane | 55 | 8.197 | 8.197 | (1.475) | 234412 | 50.0000 | 44.87 |
| | 59 Chlorobenzene | 112 | 8.212 | 8.212 | (1.003) | 916475 | 50.0000 | 48.46 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 8.287 | 8.287 | (1.012) | 327010 | 50.0000 | 50.31 |
| | 61 Ethylbenzene | 106 | 8.309 | 8.309 | (1.015) | 443008 | 50.0000 | 50.33 |
| | 62 m,p-Xylenes | 106 | 8.410 | 8.410 | (1.027) | 1096202 | 100.000 | 105.27 |
| | 63 o-Xylene | 106 | 8.748 | 8.748 | (1.069) | 532694 | 50.0000 | 51.78 |
| | 64 Styrene | 104 | 8.763 | 8.763 | (1.071) | 873807 | 50.0000 | 53.52 |
| | 66 Bromoform | 173 | 8.920 | 8.920 | (1.090) | 227224 | 50.0000 | 51.46 |
| | 67 Isopropylbenzene | 105 | 9.063 | 9.063 | (1.107) | 1269616 | 50.0000 | 51.38 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 9.329 | 9.329 | (0.917) | 438008 | 50.0000 | 45.99 |
| $ | 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 425877 | 50.0000 | 48.86 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 506267 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 9.362 | 9.362 | (0.920) | 396260 | 50.0000 | 47.29 |
| | 73 n-Propylbenzene | 91 | 9.411 | 9.411 | (0.925) | 1350525 | 50.0000 | 50.85 |
| | 74 Bromobenzene | 156 | 9.317 | 9.317 | (0.916) | 406120 | 50.0000 | 47.54 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.561 | 9.561 | (0.940) | 873885 | 50.0000 | 47.96 |
| | 76 2-Chlorotoluene | 91 | 9.482 | 9.482 | (0.932) | 927058 | 50.0000 | 49.66 |
| | 77 4-Chlorotoluene | 91 | 9.576 | 9.576 | (0.941) | 1031057 | 50.0000 | 49.89 |
| | 78 tert-Butylbenzene | 119 | 9.838 | 9.838 | (0.967) | 874077 | 50.0000 | 48.84 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.880 | 9.880 | (0.971) | 861955 | 50.0000 | 45.21 |
| | 81 sec-Butylbenzene | 105 | 10.022 | 10.022 | (0.985) | 1105877 | 50.0000 | 48.73 |
| | 82 p-Isopropyltoluene | 119 | 10.146 | 10.146 | (0.997) | 895378 | 50.0000 | 47.09 |
| | 83 1,3-Dichlorobenzene | 146 | 10.116 | 10.116 | (0.994) | 679277 | 50.0000 | 46.82 |
| | 84 1,4-Dichlorobenzene | 146 | 10.191 | 10.191 | (1.002) | 709983 | 50.0000 | 45.89 |
| | 87 n-Butylbenzene | 91 | 10.491 | 10.491 | (1.031) | 741855 | 50.0000 | 45.58 |
| | 88 1,2-Dichlorobenzene | 146 | 10.506 | 10.506 | (1.033) | 681773 | 50.0000 | 46.86 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 89 | 1,2-Dibromo-3-Chloropropane | 155 | 11.169 | 11.169 (1.098) | 66094 | 50.0000 | 47.56 |
| 90 | 1,2,4-Trichlorobenzene | 180 | 11.859 | 11.859 (1.166) | 468840 | 50.0000 | 46.85 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 91 | Hexachlorobutadiene | 225 | 11.998 | 11.998 | (1.179) | 174158 | 50.0000 | 43.10 |
| 92 | Naphthalene | 128 | 12.065 | 12.065 | (1.186) | 1175644 | 50.0000 | 50.58 |
| 93 | 1,2,3-Trichlorobenzene | 180 | 12.268 | 12.268 | (1.206) | 463613 | 50.0000 | 47.39 |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 618442 | 100.000 | (a) |
| 135 | 1,4-Dioxane | 88 | 6.172 | 6.172 | (1.281) | 89225 | 1000.00 | 664.21 |
| 141 | Cyclohexane | 56 | 4.785 | 4.785 | (0.993) | 384146 | 50.0000 | 46.29 |
| 138 | Freon TF | 101 | 2.341 | 2.341 | (0.486) | 217639 | 50.0000 | 47.90 |
| 140 | 1,3-Butadiene | 54 | 1.408 | 1.408 | (0.292) | 329617 | 50.0000 | 51.44 |
| 147 | Methylcyclohexane | 55 | 5.951 | 5.951 | (1.071) | 649753 | 50.0000 | 46.04 |
| 146 | Methyl Acetate | 43 | 2.720 | 2.720 | (0.564) | 254836 | 50.0000 | 44.73 |
| 148 | Tert-Butyl alcohol | 59 | 2.975 | 2.975 | (0.617) | 592187 | 1000.00 | 947.12 |
| 149 | Isopropyl Alcohol | 45 | 2.570 | 2.570 | (0.533) | 395875 | 1000.00 | 895.11 |
| 72 | trans-1,4-Dichloro-2-butene | 53 | 9.377 | 9.377 | (1.146) | 53071 | 50.0000 | 47.18(M) |
| 12 | Isobutyl Alcohol | 43 | 5.291 | 5.291 | (1.098) | 891975 | 1000.00 | 1014.77(M) |
| 13 | Acetonitrile | 39 | 2.678 | 2.678 | (0.556) | 355989 | 500.000 | 486.02 |
| 14 | Allyl Chloride | 41 | 2.678 | 2.678 | (0.556) | 838850 | 50.0000 | 47.75 |
| 25 | Methacrylonitrile | 41 | 4.500 | 4.500 | (0.934) | 196618 | 50.0000 | 49.19 |
| 40 | Methyl Methacrylate | 41 | 6.161 | 6.161 | (1.278) | 297279 | 50.0000 | 51.10 |
| 4 | Propionitrile | 54 | 4.343 | 4.343 | (0.901) | 467472 | 500.000 | 478.18 |
| 136 | n-Hexane | 57 | 3.350 | 3.350 | (0.695) | 256401 | 50.0000 | 45.49 |
| 194 | Acetaldehyde | 44 | 1.464 | 1.464 | (0.304) | 182837 | 200.000 | 195.95(M) |
| 131 | Methyl Acrylate | 55 | 4.377 | 4.377 | (0.908) | 350463 | 50.0000 | 48.98(M) |
| 200 | Dimethyl Disulfide | 94 | 6.750 | 6.750 | (0.825) | 275143 | 50.0000 | 38.98 |
| 23 | Chloroprene | 53 | 2.165 | 2.165 | (0.449) | 103984 | 50.0000 | 48.19(M) |
| 49 | Ethyl Methacrylate | 69 | 7.293 | 7.293 | (1.312) | 443431 | 50.0000 | 49.73 |
| 166 | 1,2,3-Trimethylbenzene | 105 | 10.236 | 10.236 | (1.006) | 871855 | 50.0000 | 44.80 |
| 167 | Ethanol | 45 | 2.090 | 2.090 | (0.434) | 83818 | 1000.00 | 992.72 |
| 164 | Dicyclopentadiene | 66 | 10.202 | 10.202 | (1.003) | 1102255 | 50.0000 | 44.63 |
| 145 | alpha-Methylstyrene | 118 | 9.756 | 9.756 | (0.959) | 398013 | 50.0000 | 42.48 |
| 142 | Tetrahydrofuran | 42 | 4.549 | 4.549 | (0.944) | 124830 | 100.000 | 104.57 |
| 156 | Diisopropyl ether | 45 | 3.627 | 3.627 | (0.753) | 905553 | 50.0000 | 48.00 |
| 151 | 4-Methyl-2-pentanol | 45 | 7.222 | 7.222 | (1.299) | 1360403 | 1000.00 | 899.38 |
| 150 | Allyl alcohol | 57 | 3.350 | 3.350 | (0.695) | 256401 | 1000.00 | 910.24 |
| 86 | Benzyl Chloride | 91 | 10.311 | 10.311 | (1.260) | 234906 | 50.0000 | 40.89 |
| 162 | Butyl acrylate | 55 | 8.733 | 8.733 | (1.067) | 552381 | 50.0000 | 47.80 |
| 139 | Diethyl ether | 59 | 2.150 | 2.150 | (0.446) | 220811 | 50.0000 | 48.30 |
| 203 | 2-Ethylhexyl Acrylate | 55 | 12.043 | 12.043 | (1.184) | 214955 | 50.0000 | 44.70 |
| 134 | Cyclohexanone | 55 | 9.156 | 9.156 | (0.900) | 291143 | 1000.00 | 927.60 |
| 130 | Ethyl Acetate | 43 | 4.272 | 4.272 | (0.886) | 275065 | 50.0000 | 45.48(M) |
| 189 | n-Butyl acetate | 43 | 7.709 | 7.709 | (0.942) | 537633 | 50.0000 | 48.33(M) |
| 182 | Epichlorohydrin | 57 | 6.637 | 6.637 | (1.194) | 17348 | 200.000 | 179.78 |
| 132 | n-Butanol | 56 | 5.835 | 5.835 | (1.211) | 176825 | 1000.00 | 918.25 |

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\voa9,i\u230606,b\u060610,d
Date : 06-JUN-2023 14:35
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;7;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

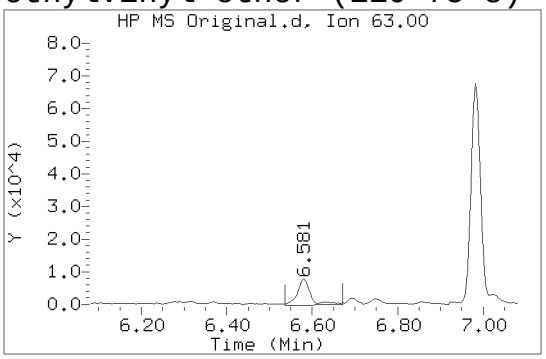
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InstruID : VOA9.i
LabSampID : VSTD050

## 2-Chloroethylvinyl ether (110-75-8)

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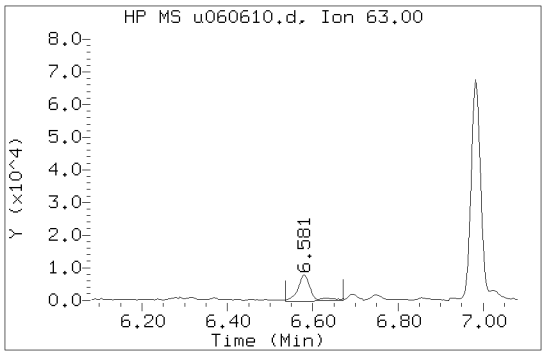
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14:56
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pham



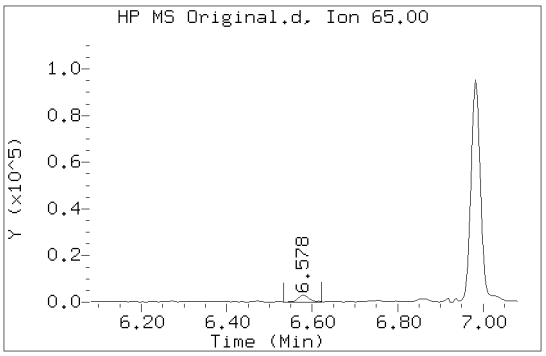

**AFTER**

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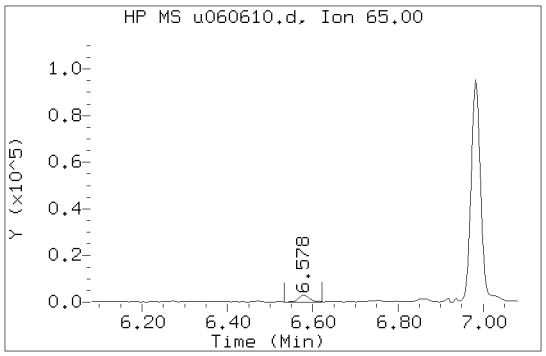

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pham



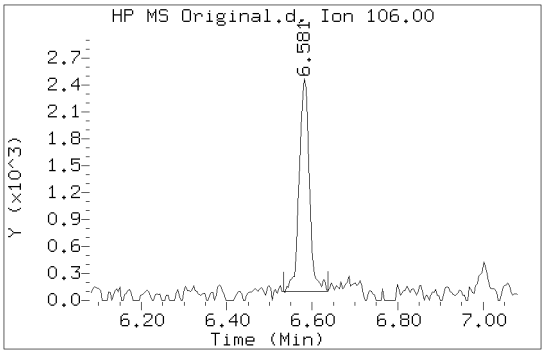

**AFTER**

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21-Jun-2023
13:49
linh
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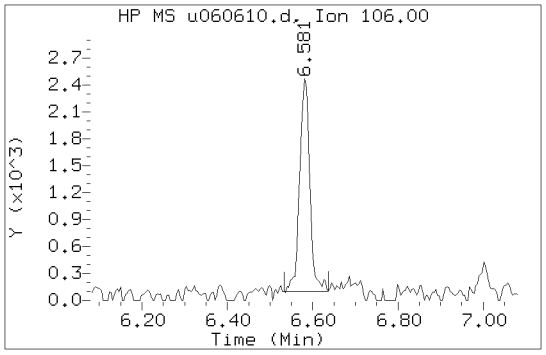

**BEFORE**

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**AFTER**

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2370
21-Jun-2023
13:49
linh
pha

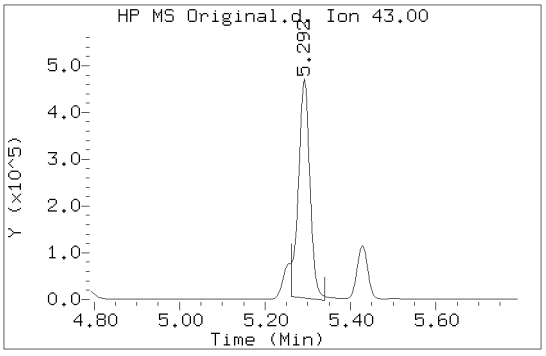



## Isobutyl Alcohol (78-83-1)

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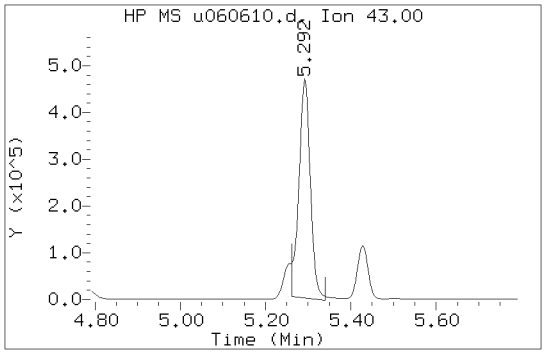
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08-Jun-2023
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**AFTER**

MASS
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AREA
891975
HEIGHT
468494
21-Jun-2023
13:49
linh
pha

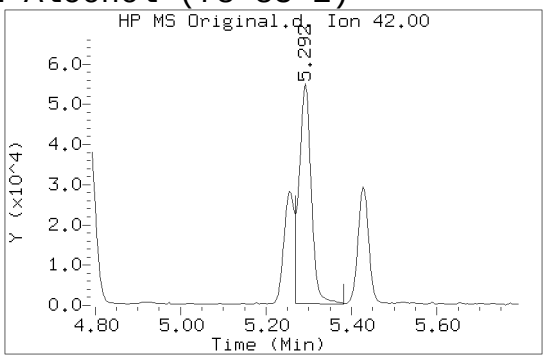


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LabSampID : VSTD050

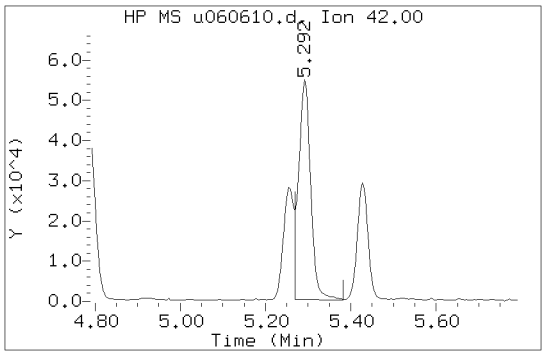
## Isobutyl Alcohol (78-83-1)

Reason Code:

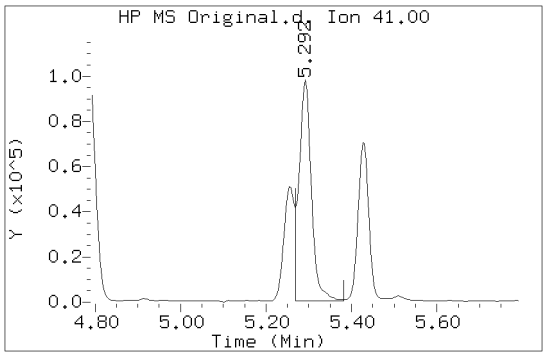
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08-Jun-2023
14:56
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pham



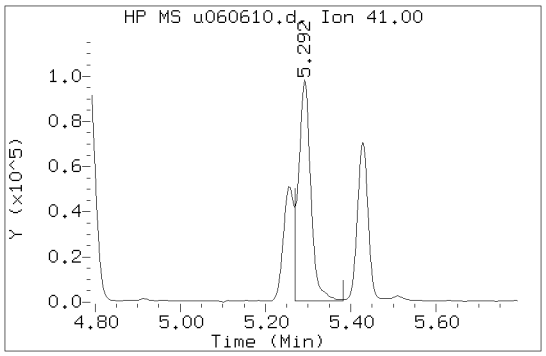

AFTER
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54695
21-Jun-2023
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BEFORE
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08-Jun-2023
14:56
linh
pham



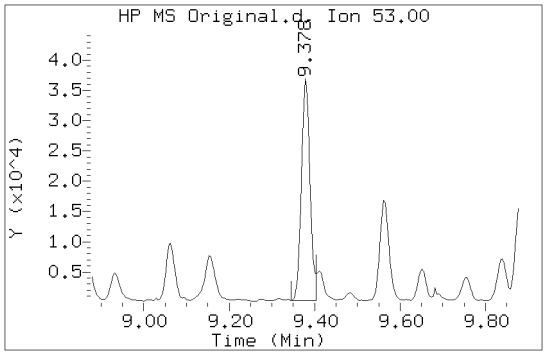

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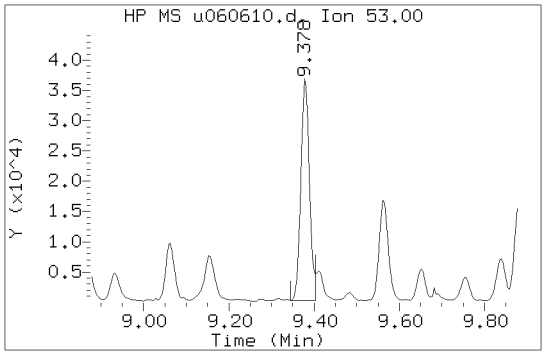

## trans-1,4-Dichloro-2-butene (110-57-6)

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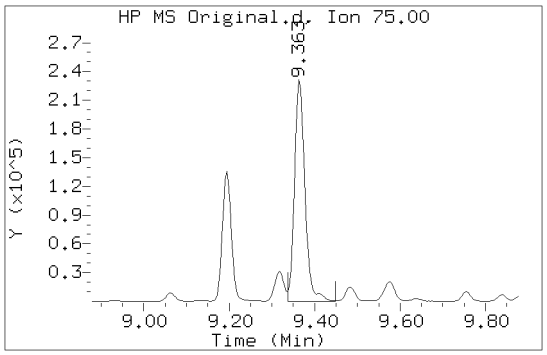
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08-Jun-2023
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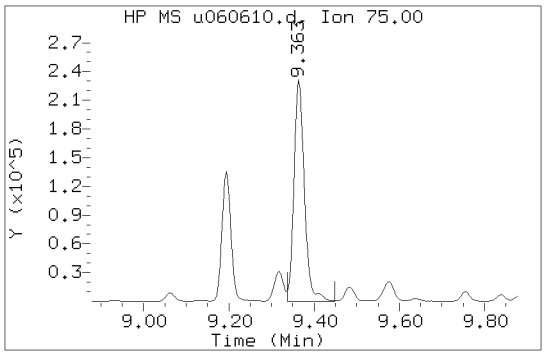

AFTER
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HEIGHT
36577
21-Jun-2023
13:49
linh
pha




BEFORE
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396260
HEIGHT
231235
08-Jun-2023
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AFTER
MASS
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21-Jun-2023
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pha

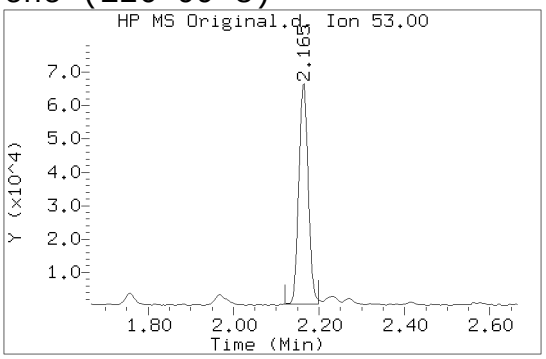


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Inj Date : 06-JUN-2023 14:35
InstruID : VOA9.i
LabSampID : VSTD050

## Chloroprene (126-99-8)

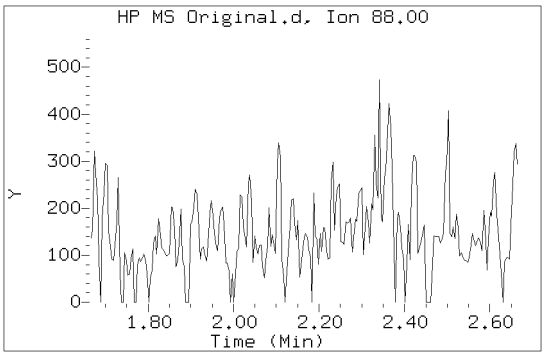
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### BEFORE

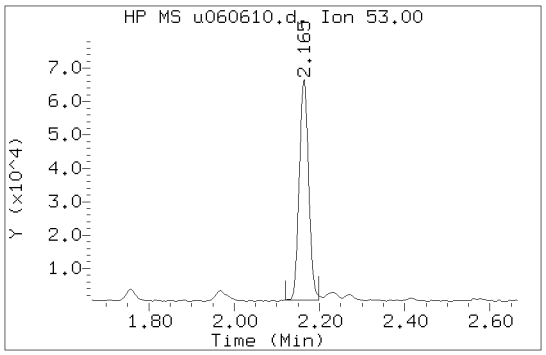
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Reason Code:

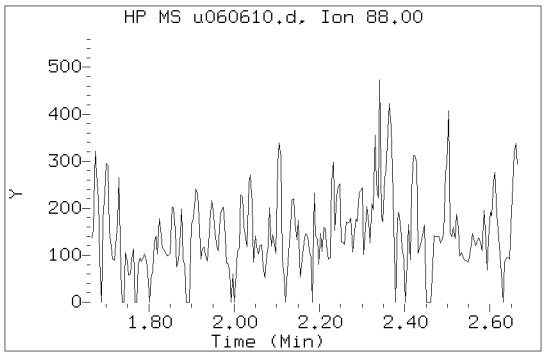
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21-Jun-2023
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### AFTER

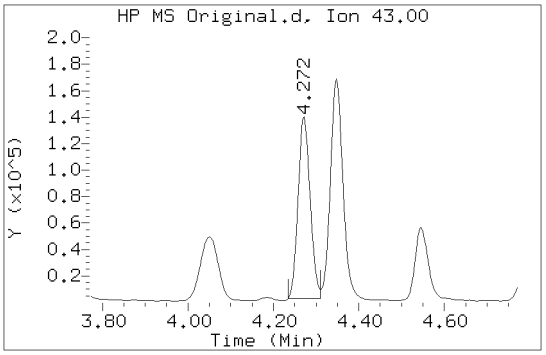
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linh
pha




## Ethyl Acetate (141-78-6)

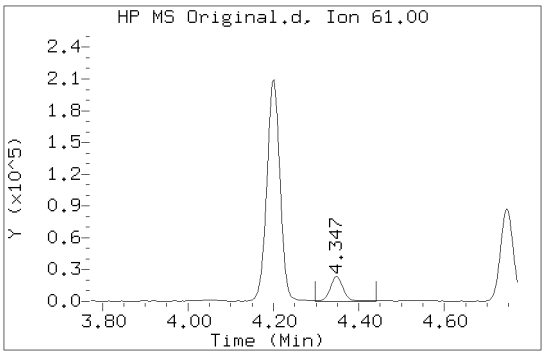
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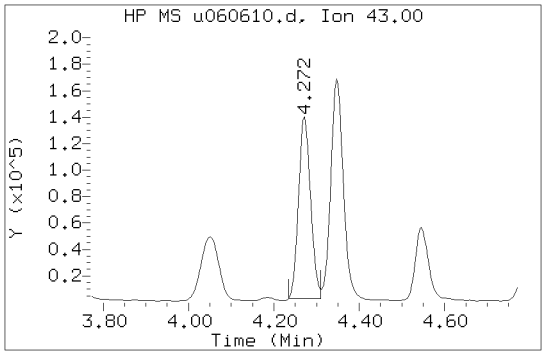
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08-Jun-2023
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Reason Code:

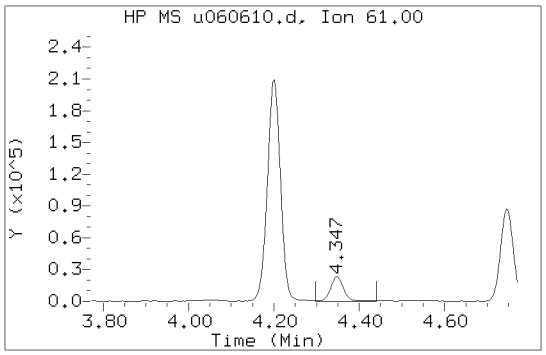
### AFTER

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### AFTER

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13:49
linh
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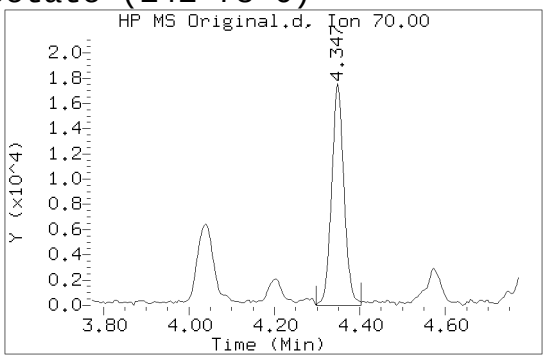
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Inj Date : 06-JUN-2023 14:35
InstruID : VOA9.i
LabSampID : VSTD050

## Ethyl Acetate (141-78-6)

Reason Code:

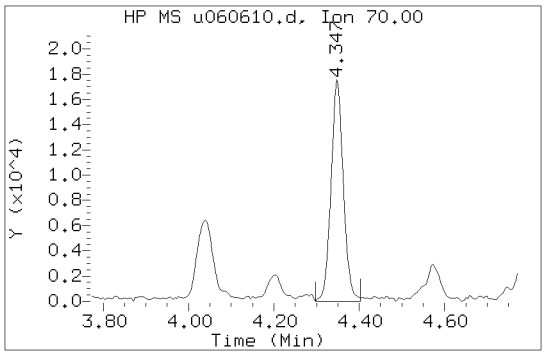
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**AFTER**

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13:49
linh
pha

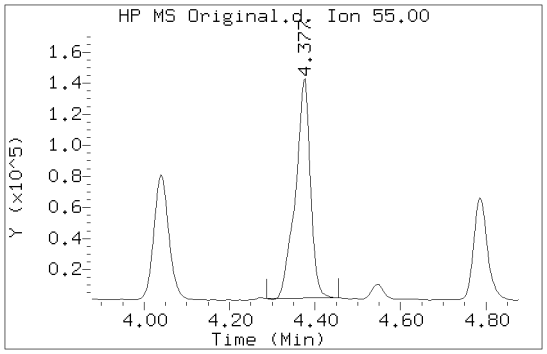



## Methyl Acrylate (96-33-3)

Reason Code:

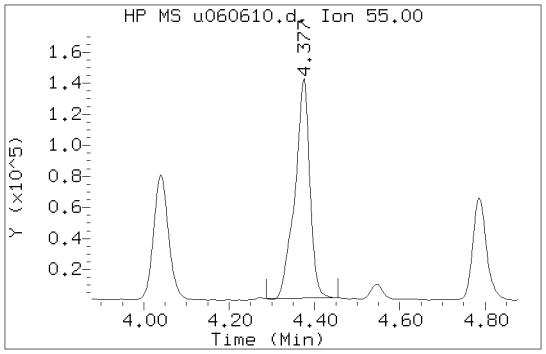
**BEFORE**

MASS
55
AREA
350463
HEIGHT
141367
08-Jun-2023
14:56
linh
pham



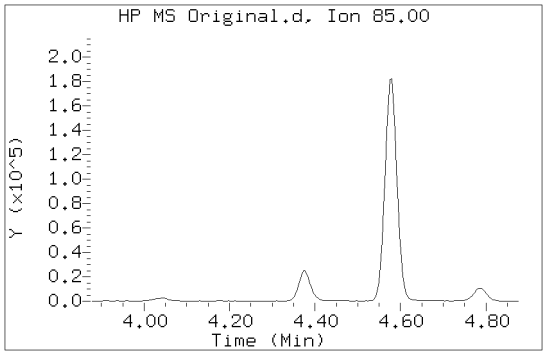

**AFTER**

MASS
55
AREA
350463
HEIGHT
141367
21-Jun-2023
13:49
linh
pha



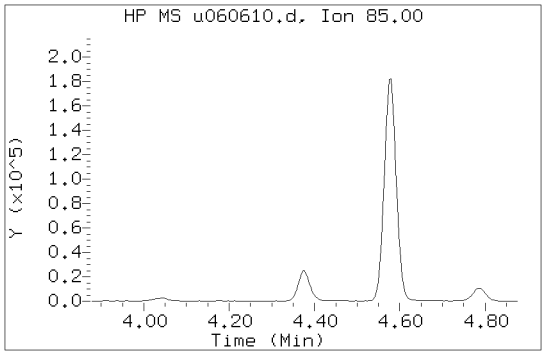

**BEFORE**

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:49
linh
pha

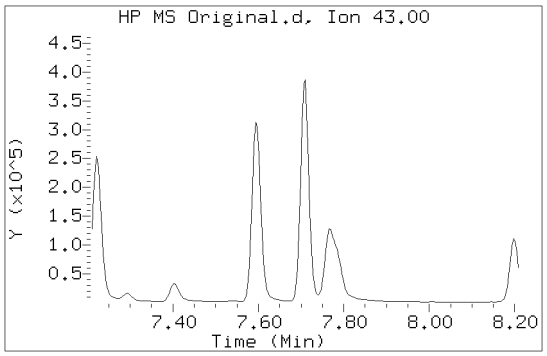



## n-Butyl acetate (123-86-4)

Reason Code:

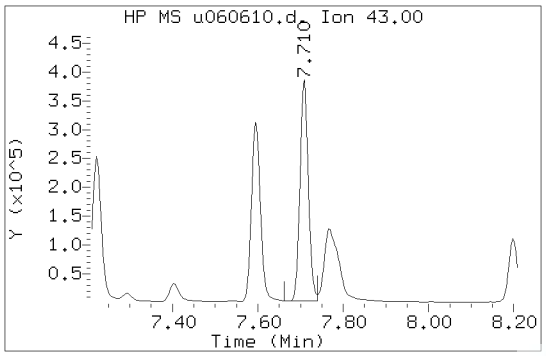
**BEFORE**

MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

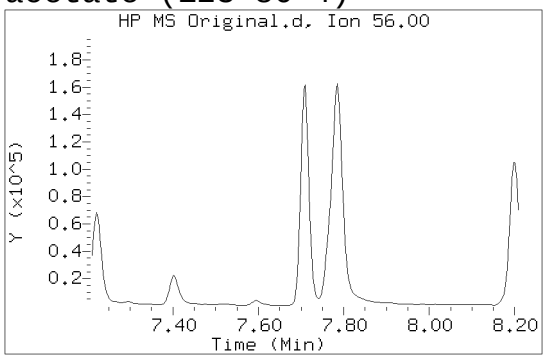
MASS
43
AREA
537633
HEIGHT
383148
21-Jun-2023
13:49
linh
pha



Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060610.d
Inj Date : 06-JUN-2023 14:35
InstruID : VOA9.i
LabSampID : VSTD050

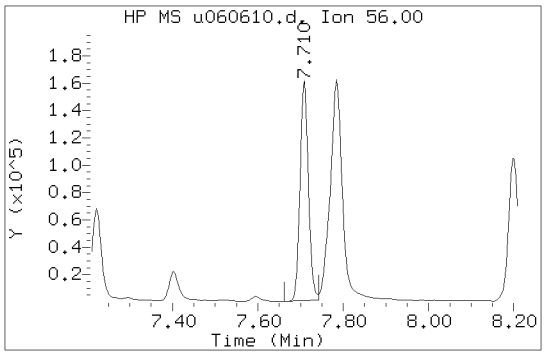
## n-Butyl acetate (123-86-4)

**BEFORE**
MASS
56
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

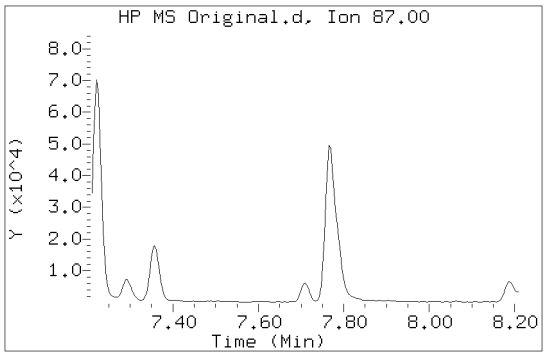



**AFTER**
MASS
56
AREA
225501
HEIGHT
160546
21-Jun-2023
13:49
linh
pha

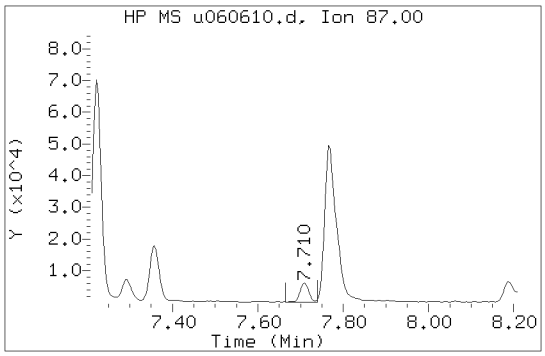
Reason Code:




**BEFORE**
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AREA
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HEIGHT
0
08-Jun-2023
14:56
linh
pham

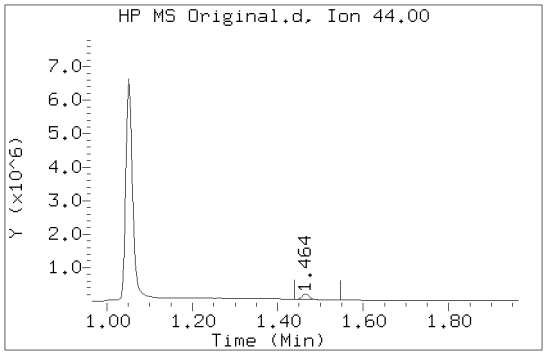



**AFTER**
MASS
87
AREA
8948
HEIGHT
6014
21-Jun-2023
13:49
linh
pha



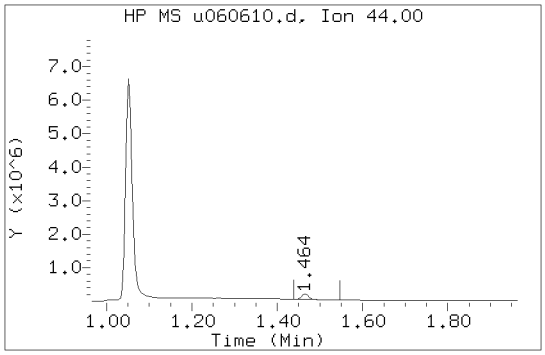

## Acetaldehyde (75-07-0)

**BEFORE**
MASS
44
AREA
182837
HEIGHT
160861
08-Jun-2023
14:56
linh
pham

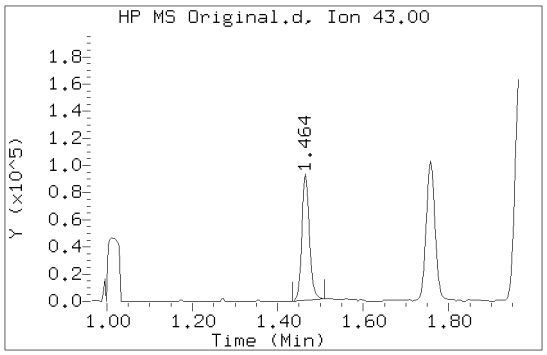



**AFTER**
MASS
44
AREA
182837
HEIGHT
160861
21-Jun-2023
13:49
linh
pha

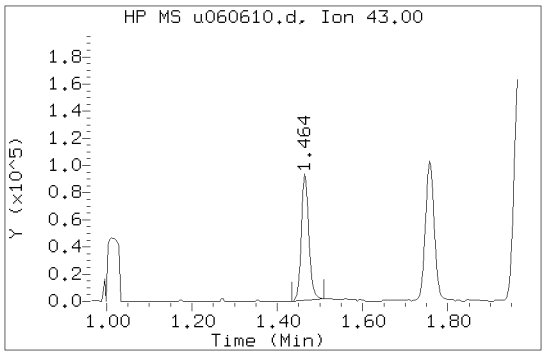
Reason Code:




**BEFORE**
MASS
43
AREA
115916
HEIGHT
93282
08-Jun-2023
14:56
linh
pham




**AFTER**
MASS
43
AREA
115916
HEIGHT
93282
21-Jun-2023
13:49
linh
pha



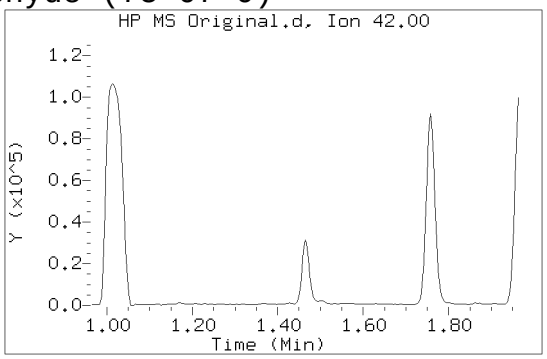
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060610.d
Inj Date : 06-JUN-2023 14:35
InstruID : VOA9.i
LabSampID : VSTD050

## Acetaldehyde (75-07-0)

Reason Code:

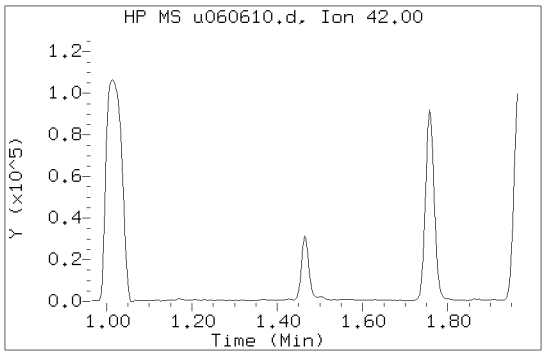
**BEFORE**

MASS
42
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
42
AREA
0
HEIGHT
0
21-Jun-2023
13:49
linh
pha

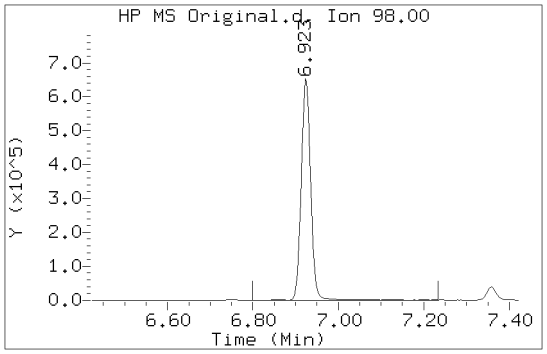



## Toluene-d8 (2037-26-5)

Reason Code:

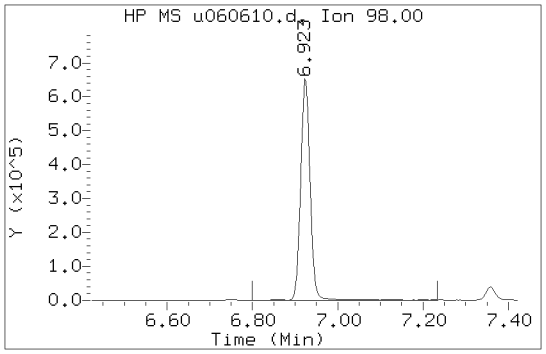
**BEFORE**

MASS
98
AREA
1047714
HEIGHT
653990
08-Jun-2023
14:56
linh
pham



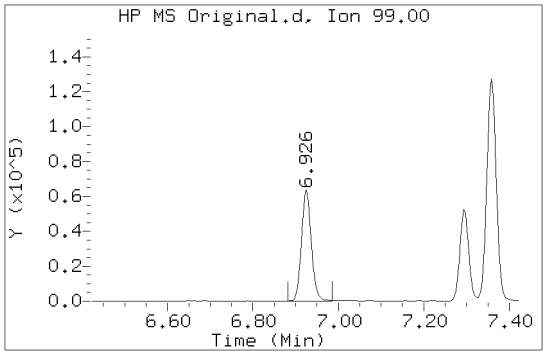

**AFTER**

MASS
98
AREA
1047714
HEIGHT
653990
21-Jun-2023
13:49
linh
pha



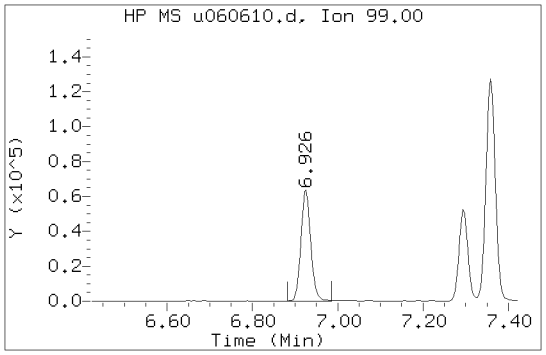

**BEFORE**

MASS
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AREA
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HEIGHT
63672
08-Jun-2023
14:56
linh
pham



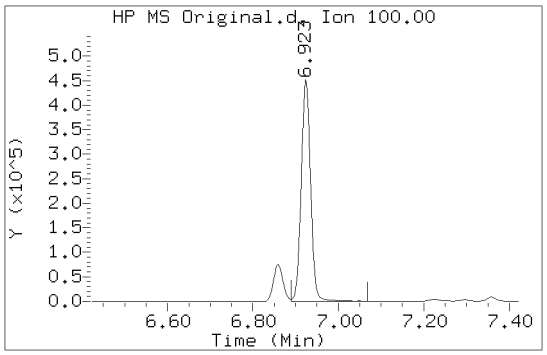

**AFTER**

MASS
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AREA
104983
HEIGHT
63672
21-Jun-2023
13:49
linh
pha



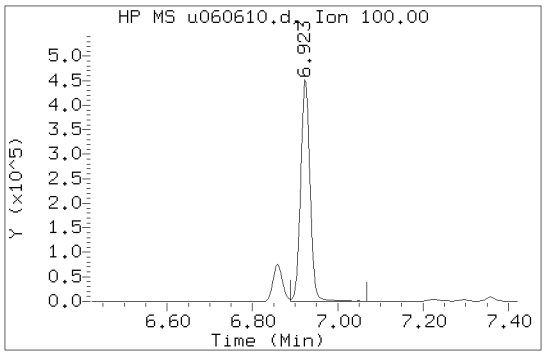

**BEFORE**

MASS
100
AREA
706605
HEIGHT
451766
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
100
AREA
706605
HEIGHT
451766
21-Jun-2023
13:49
linh
pha



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060611.D Page 1
Report Date: 21-Jun-2023 13:48

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060611.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 06-JUN-2023 14:57
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD100;VSTD100;1;8;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 14:57 Cal File: U060611.D
Als bottle: 12 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.819 | 4.819 | (1.000) | 670070 | 50.0000 | |
| 2 Dichlorodifluoromethane | 85 | 1.171 | 1.171 | (0.243) | 630744 | 100.000 | 101.79 |
| 3 Chloromethane | 50 | 1.303 | 1.303 | (0.270) | 979734 | 100.000 | 98.21 |
| 5 Vinyl Chloride | 62 | 1.385 | 1.385 | (0.288) | 740321 | 100.000 | 104.45 |
| 6 Bromomethane | 94 | 1.621 | 1.621 | (0.337) | 362834 | 100.000 | 101.38 |
| 7 Chloroethane | 64 | 1.704 | 1.704 | (0.354) | 467539 | 100.000 | 97.92 |
| 8 Trichlorofluoromethane | 101 | 1.902 | 1.902 | (0.395) | 855761 | 100.000 | 105.12 |
| 9 Acrolein | 56 | 2.274 | 2.274 | (0.472) | 67908 | 200.000 | 190.93 |
| 10 Acetone | 43 | 2.416 | 2.416 | (0.501) | 467276 | 200.000 | 208.92 |
| 11 1,1-Dichloroethene | 96 | 2.341 | 2.341 | (0.486) | 513614 | 100.000 | 100.98 |
| 15 Iodomethane | 142 | 2.476 | 2.476 | (0.514) | 901104 | 200.000 | 199.55 |
| 16 Acrylonitrile | 53 | 3.072 | 3.072 | (0.638) | 516348 | 200.000 | 207.79 |
| 17 Methylene Chloride | 84 | 2.802 | 2.802 | (0.582) | 614571 | 100.000 | 101.61 |
| 18 Methyl tert-butyl ether | 73 | 3.087 | 3.087 | (0.641) | 1584444 | 100.000 | 101.58 |
| 19 Carbon Disulfide | 76 | 2.528 | 2.528 | (0.525) | 2847374 | 200.000 | 209.40 |
| 20 trans-1,2-Dichloroethene | 96 | 3.065 | 3.065 | (0.636) | 568535 | 100.000 | 102.78 |
| 21 Vinyl Acetate | 43 | 3.616 | 3.616 | (0.750) | 3561924 | 200.000 | 211.24 |
| 22 1,1-Dichloroethane | 63 | 3.522 | 3.522 | (0.731) | 1000189 | 100.000 | 95.14 |
| 24 2-Butanone | 43 | 4.272 | 4.272 | (0.886) | 586975 | 200.000 | 192.13 |
| 26 2,2-Dichloropropane | 77 | 4.189 | 4.189 | (0.869) | 699035 | 100.000 | 100.17 |
| 27 cis-1,2-Dichloroethene | 96 | 4.204 | 4.204 | (0.872) | 653745 | 100.000 | 98.79 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 28 | Chloroform | 83 | 4.579 | 4.579 (0.950) | 1087668 | 100.000 | 99.41 |
| 29 | Bromochloromethane | 128 | 4.474 | 4.474 (0.928) | 353937 | 100.000 | 95.61 |

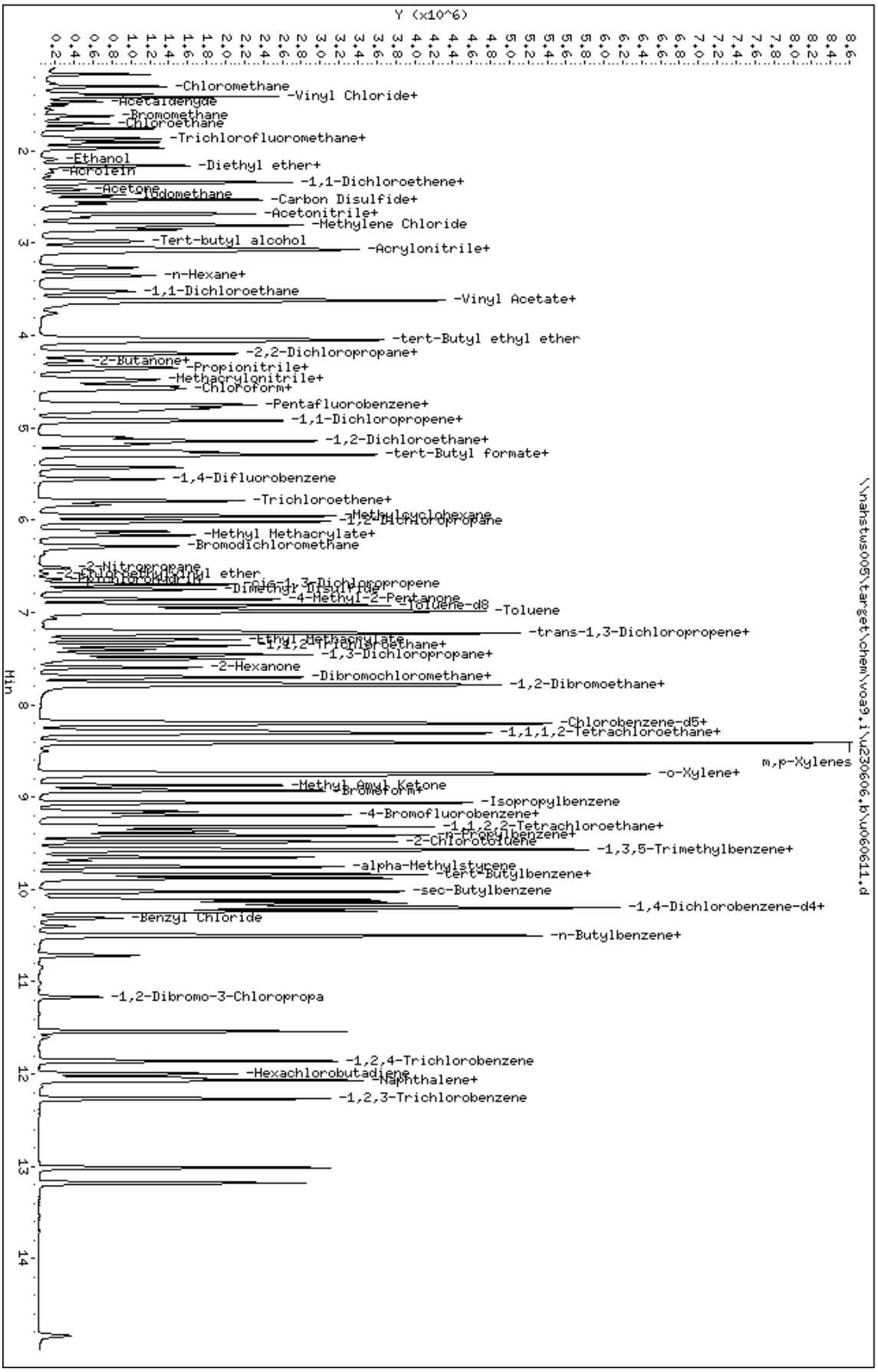
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| $ | 30 Dibromofluoromethane | 113 | 4.755 | 4.755 | (0.987) | 587291 | 100.000 | 104.76 |
| | 31 1,1,1-Trichloroethane | 97 | 4.748 | 4.748 | (0.985) | 877070 | 100.000 | 105.18 |
| | 32 1,1-Dichloropropene | 75 | 4.924 | 4.924 | (0.886) | 789905 | 100.000 | 106.49 |
| | 33 1,2-Dichloroethane | 62 | 5.183 | 5.183 | (0.933) | 859937 | 100.000 | 98.17 |
| | 34 Carbon Tetrachloride | 117 | 4.916 | 4.916 | (0.885) | 751459 | 100.000 | 110.29 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.104 | 5.104 | (1.059) | 630129 | 100.000 | 104.27 |
| * | 36 1,4-Difluorobenzene | 114 | 5.557 | 5.557 | (1.000) | 1012041 | 50.0000 | |
| | 37 Benzene | 78 | 5.141 | 5.141 | (0.925) | 2477058 | 100.000 | 101.57 |
| | 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.042) | 703907 | 100.000 | 99.58 |
| | 39 Bromodichloromethane | 83 | 6.281 | 6.281 | (1.130) | 818290 | 100.000 | 107.56 |
| | 41 2-Chloroethylvinyl ether | 63 | 6.581 | 6.581 | (1.184) | 40457 | 200.000 | 219.88 |
| | 42 1,2-Dichloropropane | 63 | 6.015 | 6.015 | (1.082) | 652200 | 100.000 | 100.16 |
| | 44 Dibromomethane | 93 | 6.123 | 6.123 | (1.102) | 418327 | 100.000 | 100.55 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.858 | 6.858 | (0.838) | 1453246 | 200.000 | 201.66 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.693 | 6.693 | (1.204) | 1015887 | 100.000 | 97.77 |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 989593 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.922 | (0.846) | 2212089 | 100.000 | 98.76 |
| | 50 Toluene | 91 | 6.982 | 6.982 | (0.853) | 2683985 | 100.000 | 99.99 |
| | 51 trans-1,3-Dichloropropene | 75 | 7.199 | 7.199 | (1.295) | 857257 | 100.000 | 98.18 |
| | 52 2-Hexanone | 43 | 7.593 | 7.593 | (0.928) | 985396 | 200.000 | 196.34 |
| | 53 1,1,2-Trichloroethane | 83 | 7.357 | 7.357 | (0.899) | 529613 | 100.000 | 94.83 |
| | 54 1,3-Dichloropropane | 76 | 7.499 | 7.499 | (0.916) | 1115267 | 100.000 | 97.74 |
| | 55 Dibromochloromethane | 129 | 7.694 | 7.694 | (0.940) | 737148 | 100.000 | 111.24 |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 639857 | 100.000 | 97.84 |
| | 57 1,2-Dibromoethane | 107 | 7.788 | 7.788 | (0.951) | 667663 | 100.000 | 96.91 |
| | 58 1-Chlorohexane | 55 | 8.196 | 8.196 | (1.475) | 524953 | 100.000 | 101.01 |
| | 59 Chlorobenzene | 112 | 8.211 | 8.211 | (1.003) | 1872827 | 100.000 | 97.76 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 8.286 | 8.286 | (1.012) | 680431 | 100.000 | 103.34 |
| | 61 Ethylbenzene | 106 | 8.309 | 8.309 | (1.015) | 943978 | 100.000 | 105.87 |
| | 62 m,p-Xylenes | 106 | 8.410 | 8.410 | (1.027) | 2348572 | 200.000 | 222.64 |
| | 63 o-Xylene | 106 | 8.748 | 8.748 | (1.069) | 1136322 | 100.000 | 109.04 |
| | 64 Styrene | 104 | 8.763 | 8.763 | (1.071) | 1895390 | 100.000 | 114.61 |
| | 66 Bromoform | 173 | 8.920 | 8.920 | (1.090) | 516461 | 100.000 | 115.46 |
| | 67 Isopropylbenzene | 105 | 9.062 | 9.062 | (1.107) | 2761754 | 100.000 | 110.34 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 9.329 | 9.329 | (0.917) | 908699 | 100.000 | 94.04 |
| $ | 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 923899 | 100.000 | 105.68 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 513703 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 9.362 | 9.362 | (0.920) | 846266 | 100.000 | 99.55 |
| | 73 n-Propylbenzene | 91 | 9.411 | 9.411 | (0.925) | 3014111 | 100.000 | 111.86 |
| | 74 Bromobenzene | 156 | 9.317 | 9.317 | (0.916) | 845025 | 100.000 | 97.49 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.565 | 9.565 | (0.940) | 1940177 | 100.000 | 104.95 |
| | 76 2-Chlorotoluene | 91 | 9.482 | 9.482 | (0.932) | 1931083 | 100.000 | 101.94 |
| | 77 4-Chlorotoluene | 91 | 9.576 | 9.576 | (0.941) | 2158910 | 100.000 | 102.96 |
| | 78 tert-Butylbenzene | 119 | 9.838 | 9.838 | (0.967) | 1926006 | 100.000 | 106.08 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.880 | 9.880 | (0.971) | 1885486 | 100.000 | 97.48 |
| | 81 sec-Butylbenzene | 105 | 10.022 | 10.022 | (0.985) | 2529836 | 100.000 | 109.87 |
| | 82 p-Isopropyltoluene | 119 | 10.146 | 10.146 | (0.997) | 2089715 | 100.000 | 108.33 |
| | 83 1,3-Dichlorobenzene | 146 | 10.116 | 10.116 | (0.994) | 1428807 | 100.000 | 97.05 |
| | 84 1,4-Dichlorobenzene | 146 | 10.191 | 10.191 | (1.002) | 1475761 | 100.000 | 94.02 |
| | 87 n-Butylbenzene | 91 | 10.494 | 10.494 | (1.032) | 1713959 | 100.000 | 103.79 |
| | 88 1,2-Dichlorobenzene | 146 | 10.506 | 10.506 | (1.033) | 1414908 | 100.000 | 95.85 |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 11.165 | 11.165 | (1.098) | 145818 | 100.000 | 103.41 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 90 1,2,4-Trichlorobenzene | 180 | 11.859 | 11.859 (1.166) | 1004776 | 100.000 | 98.96 |
| 91 Hexachlorobutadiene | 225 | 11.998 | 11.998 (1.179) | 399123 | 100.000 | 97.34 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 92 Naphthalene | 128 | 12.065 | 12.065 | (1.186) | 2448621 | 100.000 | 103.83 |
| | 93 1,2,3-Trichlorobenzene | 180 | 12.268 | 12.268 | (1.206) | 976842 | 100.000 | 98.42 |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 1222280 | 200.000 | 201.57 |
| M | 95 Xylenes (total) | 106 | | | | 3484894 | 300.000 | 331.69 |
| | 135 1,4-Dioxane | 88 | 6.172 | 6.172 | (1.281) | 185267 | 2000.00 | 1392.45 |
| | 141 Cyclohexane | 56 | 4.785 | 4.785 | (0.993) | 872566 | 100.000 | 102.63 |
| | 138 Freon TF | 101 | 2.345 | 2.345 | (0.487) | 480519 | 100.000 | 106.77 |
| | 140 1,3-Butadiene | 54 | 1.411 | 1.411 | (0.293) | 678126 | 100.000 | 106.86 |
| | 147 Methylcyclohexane | 55 | 5.951 | 5.951 | (1.071) | 1558687 | 100.000 | 111.02(A) |
| | 146 Methyl Acetate | 43 | 2.720 | 2.720 | (0.564) | 537399 | 100.000 | 95.24 |
| | 148 Tert-Butyl alcohol | 59 | 2.978 | 2.978 | (0.618) | 1263261 | 2000.00 | 2045.59 |
| | 149 Isopropyl Alcohol | 45 | 2.573 | 2.573 | (0.534) | 847444 | 2000.00 | 1934.60 |
| | 72 trans-1,4-Dichloro-2-butene | 53 | 9.377 | 9.377 | (1.146) | 125171 | 100.000 | 109.85(M) |
| | 12 Isobutyl Alcohol | 43 | 5.291 | 5.291 | (1.098) | 1859195 | 2000.00 | 2135.51(M) |
| | 13 Acetonitrile | 39 | 2.678 | 2.678 | (0.556) | 750162 | 1000.00 | 1034.05 |
| | 14 Allyl Chloride | 41 | 2.678 | 2.678 | (0.556) | 1757558 | 100.000 | 101.02 |
| | 25 Methacrylonitrile | 41 | 4.500 | 4.500 | (0.934) | 417519 | 100.000 | 105.46 |
| | 40 Methyl Methacrylate | 41 | 6.161 | 6.161 | (1.278) | 629718 | 100.000 | 109.29 |
| | 4 Propionitrile | 54 | 4.347 | 4.347 | (0.902) | 963710 | 1000.00 | 995.29 |
| | 136 n-Hexane | 57 | 3.349 | 3.349 | (0.695) | 595793 | 100.000 | 102.41 |
| | 194 Acetaldehyde | 44 | 1.468 | 1.468 | (0.305) | 401024 | 400.000 | 433.93(M) |
| | 131 Methyl Acrylate | 55 | 4.377 | 4.377 | (0.908) | 743794 | 100.000 | 104.95(M) |
| | 200 Dimethyl Disulfide | 94 | 6.749 | 6.749 | (0.825) | 843448 | 100.000 | 100.11 |
| | 23 Chloroprene | 53 | 2.165 | 2.165 | (0.449) | 214456 | 100.000 | 100.34(M) |
| | 49 Ethyl Methacrylate | 69 | 7.293 | 7.293 | (1.312) | 960371 | 100.000 | 108.25 |
| | 166 1,2,3-Trimethylbenzene | 105 | 10.236 | 10.236 | (1.006) | 1877988 | 100.000 | 95.10 |
| | 167 Ethanol | 45 | 2.094 | 2.094 | (0.435) | 175232 | 2000.00 | 2120.76 |
| | 164 Dicyclopentadiene | 66 | 10.202 | 10.202 | (1.003) | 2526635 | 100.000 | 100.82 |
| | 145 alpha-Methylstyrene | 118 | 9.756 | 9.756 | (0.959) | 939505 | 100.000 | 94.14 |
| | 142 Tetrahydrofuran | 42 | 4.549 | 4.549 | (0.944) | 246154 | 200.000 | 210.54 |
| | 156 Diisopropyl ether | 45 | 3.631 | 3.631 | (0.753) | 1887901 | 100.000 | 101.04 |
| | 151 4-Methyl-2-pentanol | 45 | 7.222 | 7.222 | (1.299) | 3087346 | 2000.00 | 2051.50 |
| | 150 Allyl alcohol | 57 | 3.349 | 3.349 | (0.695) | 595793 | 2000.00 | 2048.16 |
| | 86 Benzyl Chloride | 91 | 10.311 | 10.311 | (1.260) | 573982 | 100.000 | 93.75 |
| | 162 Butyl acrylate | 55 | 8.733 | 8.733 | (1.067) | 1240696 | 100.000 | 105.99 |
| | 139 Diethyl ether | 59 | 2.154 | 2.154 | (0.447) | 464259 | 100.000 | 102.54 |
| | 203 2-Ethylhexyl Acrylate | 55 | 12.043 | 12.043 | (1.184) | 534360 | 100.000 | 100.35 |
| | 134 Cyclohexanone | 55 | 9.156 | 9.156 | (0.900) | 605439 | 2000.00 | 1901.05 |
| | 130 Ethyl Acetate | 43 | 4.272 | 4.272 | (0.886) | 580165 | 100.000 | 96.86(M) |
| | 189 n-Butyl acetate | 43 | 7.709 | 7.709 | (0.942) | 1156578 | 100.000 | 102.64(M) |
| | 182 Epichlorohydrin | 57 | 6.633 | 6.633 | (1.194) | 42530 | 400.000 | 396.34 |
| | 132 n-Butanol | 56 | 5.835 | 5.835 | (1.211) | 404429 | 2000.00 | 2120.43 |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.




Data File: \\nahstws005\target\chem\voa9.i\u230606.b\u060611.d
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Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8;
Purge Volume: 5.0
Column phase: DB624

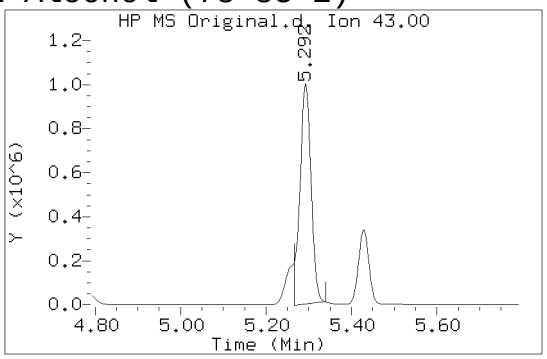
Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

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InstruID : VOA9.i
LabSampID : VSTD100

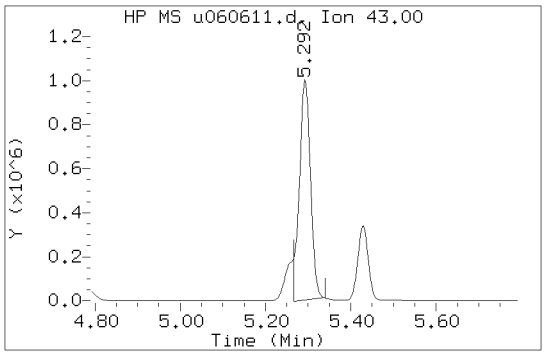
## Isobutyl Alcohol (78-83-1)

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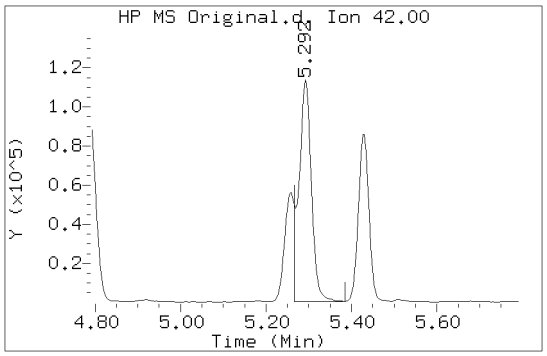
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HEIGHT
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08-Jun-2023
14:56
linh
pham



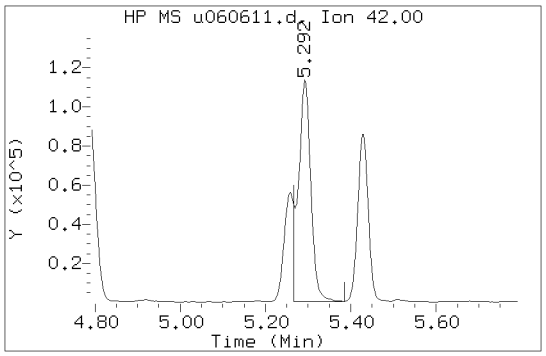

AFTER
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21-Jun-2023
13:48
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pha



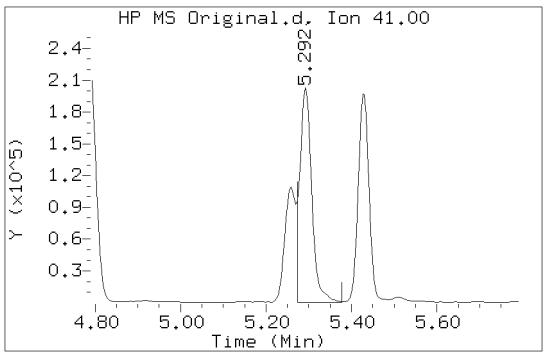

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08-Jun-2023
14:56
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pham



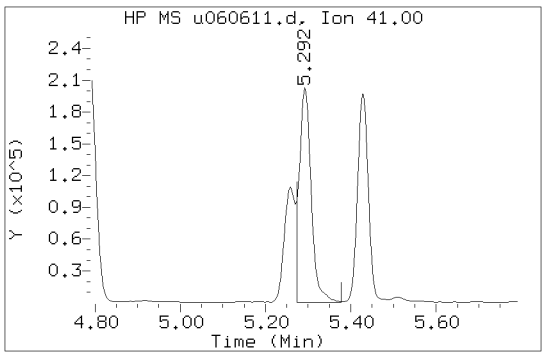

AFTER
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HEIGHT
113359
21-Jun-2023
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BEFORE
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08-Jun-2023
14:56
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pham



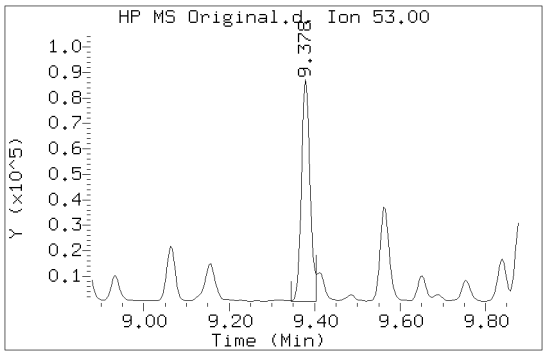

AFTER
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202160
21-Jun-2023
13:48
linh
pha



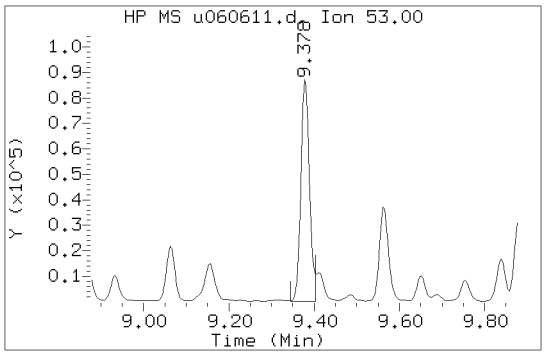

## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

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HEIGHT
86900
08-Jun-2023
14:56
linh
pham




AFTER
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AREA
125171
HEIGHT
86900
21-Jun-2023
13:48
linh
pha



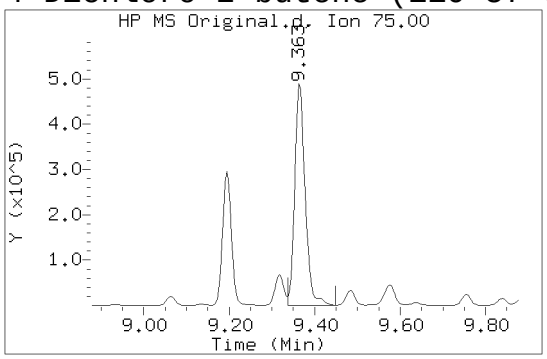
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Inj Date : 06-JUN-2023 14:57
InstruID : VOA9.i
LabSampID : VSTD100

## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

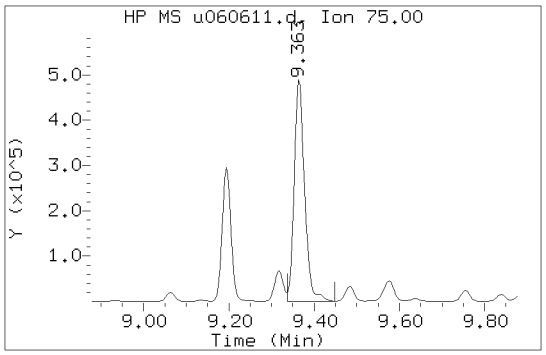
**BEFORE**

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75
AREA
846266
HEIGHT
489169
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
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AREA
846266
HEIGHT
489169
21-Jun-2023
13:48
linh
pha

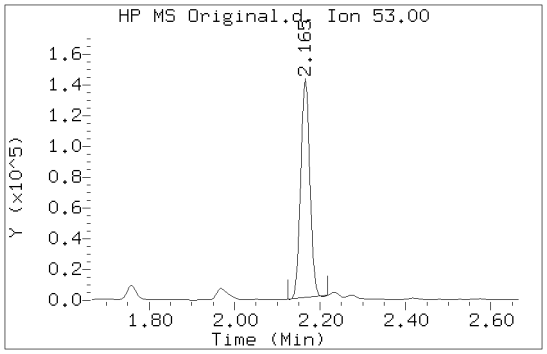



## Chloroprene (126-99-8)

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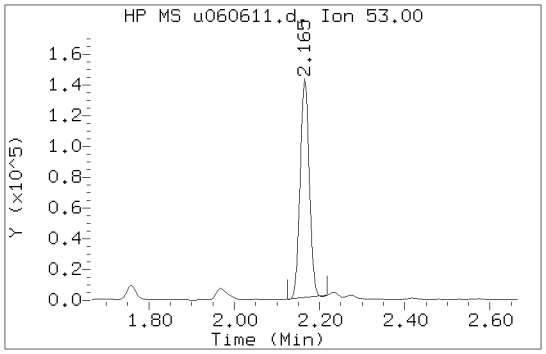
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HEIGHT
141961
08-Jun-2023
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linh
pham



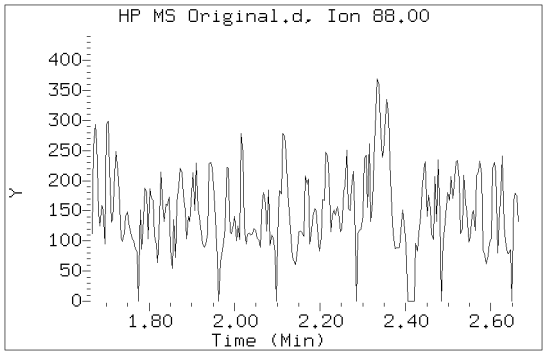

**AFTER**

MASS
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21-Jun-2023
13:48
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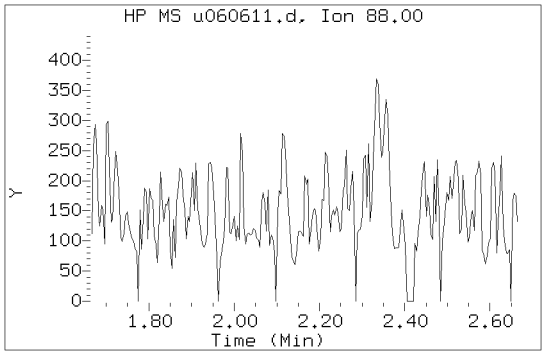

**BEFORE**

MASS
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AREA
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08-Jun-2023
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**AFTER**

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21-Jun-2023
13:48
linh
pha

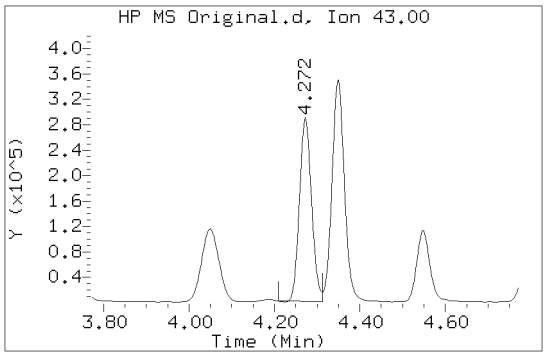



## Ethyl Acetate (141-78-6)

Reason Code:

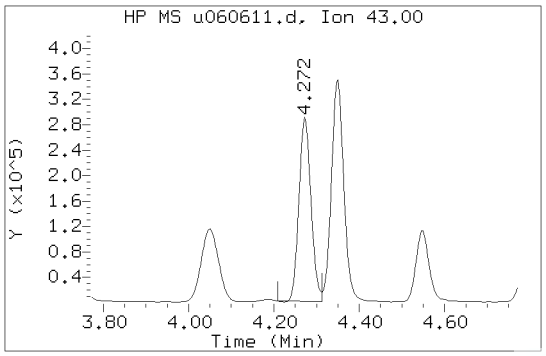
**BEFORE**

MASS
43
AREA
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HEIGHT
290116
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
43
AREA
580165
HEIGHT
290116
21-Jun-2023
13:48
linh
pha



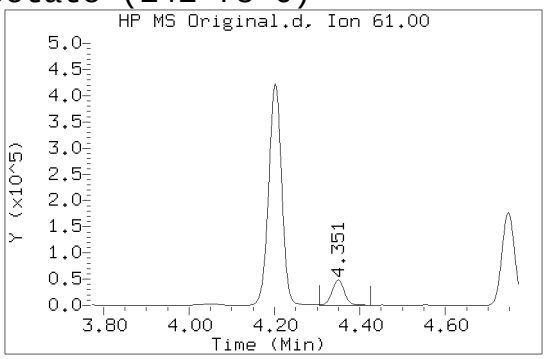
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LabSampID : VSTD100

## Ethyl Acetate (141-78-6)

Reason Code:

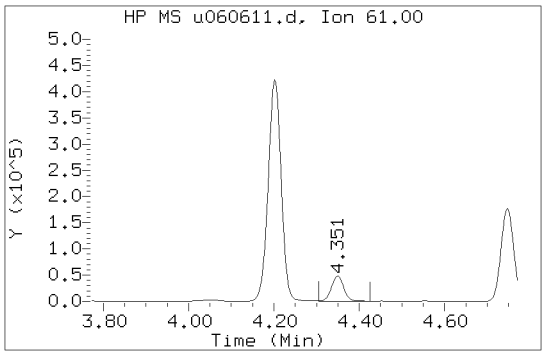
**BEFORE**

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HEIGHT
48556
08-Jun-2023
14:56
linh
pham



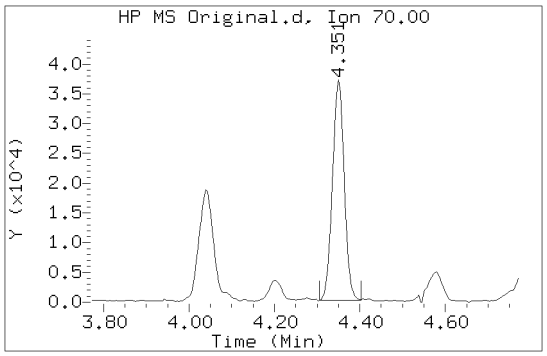

**AFTER**

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21-Jun-2023
13:48
linh
pha



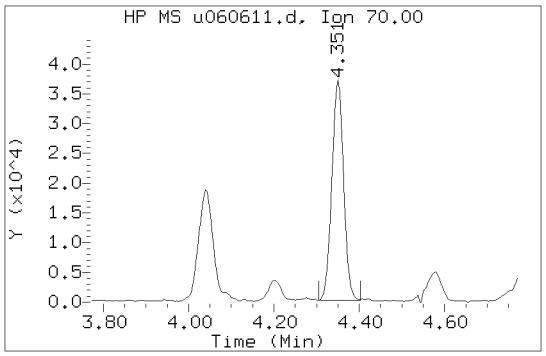

**BEFORE**

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HEIGHT
37034
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
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AREA
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HEIGHT
37034
21-Jun-2023
13:48
linh
pha

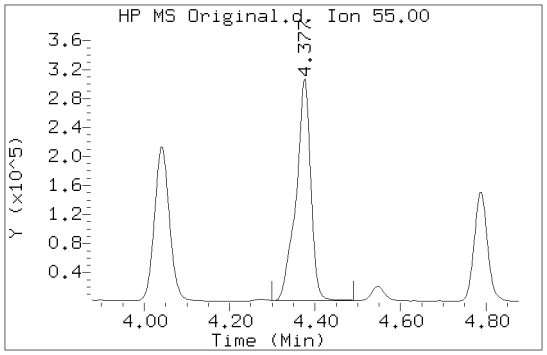



## Methyl Acrylate (96-33-3)

Reason Code:

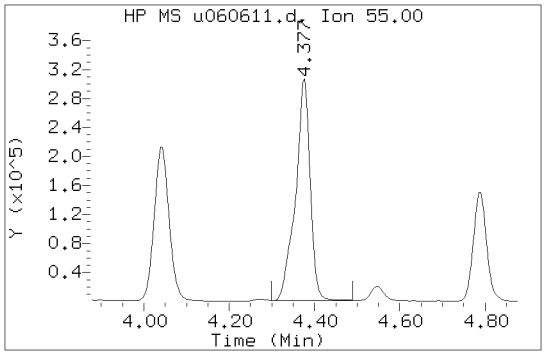
**BEFORE**

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HEIGHT
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08-Jun-2023
14:56
linh
pham



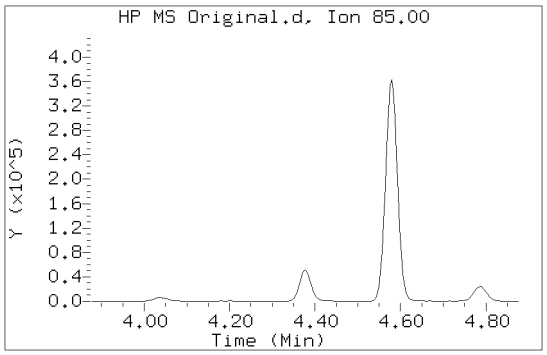

**AFTER**

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21-Jun-2023
13:48
linh
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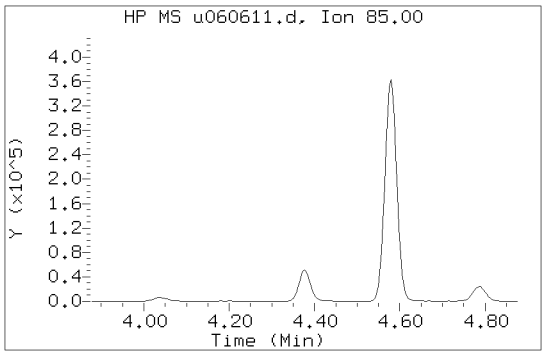

**BEFORE**

MASS
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08-Jun-2023
14:56
linh
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**AFTER**

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HEIGHT
0
21-Jun-2023
13:48
linh
pha

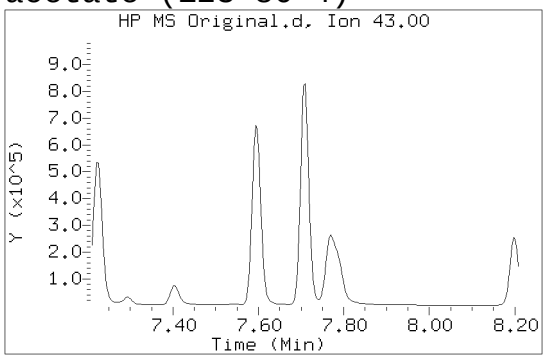


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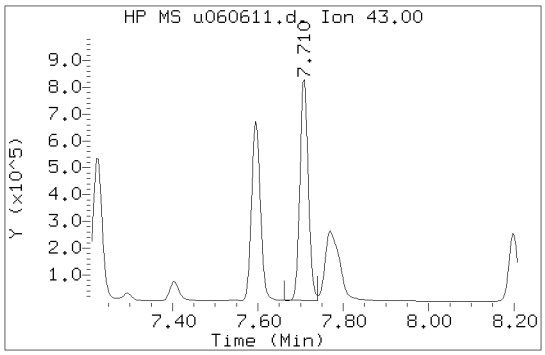
## n-Butyl acetate (123-86-4)

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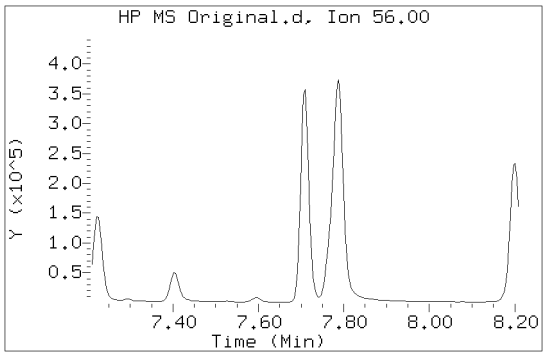
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08-Jun-2023
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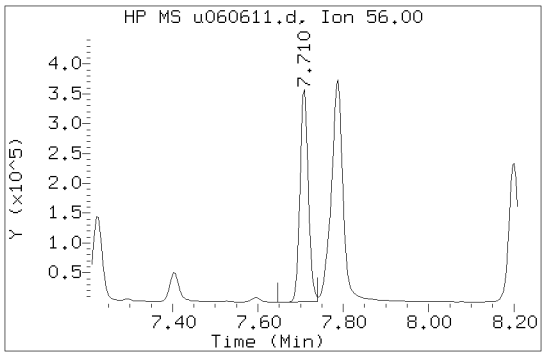

**AFTER**
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13:48
linh
pha



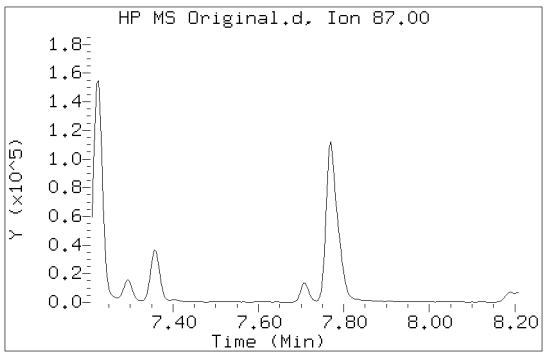

**BEFORE**
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14:56
linh
pham



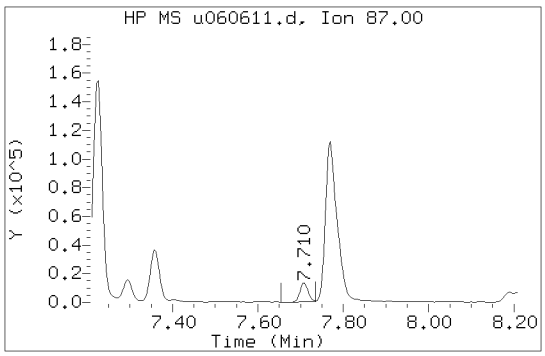

**AFTER**
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21-Jun-2023
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**BEFORE**
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HEIGHT
0
08-Jun-2023
14:56
linh
pham



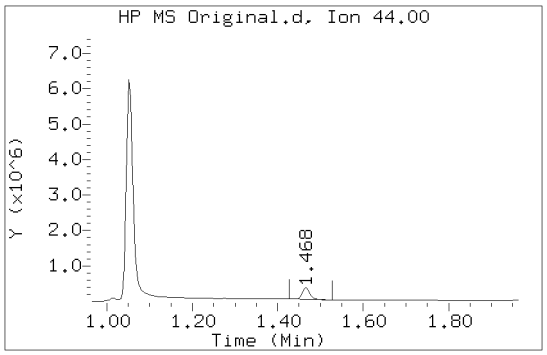

**AFTER**
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21-Jun-2023
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linh
pha



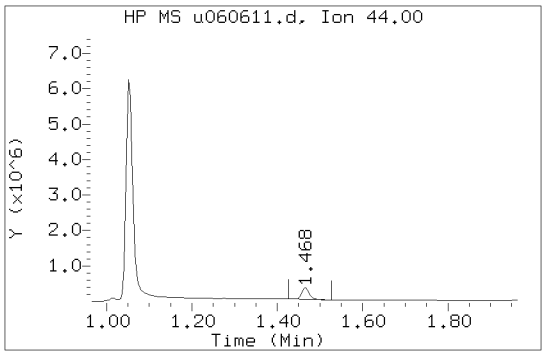

## Acetaldehyde (75-07-0)

Reason Code:

**BEFORE**
MASS
44
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401024
HEIGHT
318277
08-Jun-2023
14:56
linh
pham




**AFTER**
MASS
44
AREA
401024
HEIGHT
318277
21-Jun-2023
13:48
linh
pha



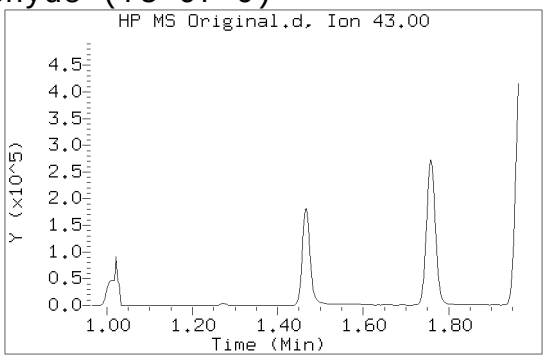
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Inj Date : 06-JUN-2023 14:57
InstruID : VOA9.i
LabSampID : VSTD100

Acetaldehyde (75-07-0)

Reason Code:

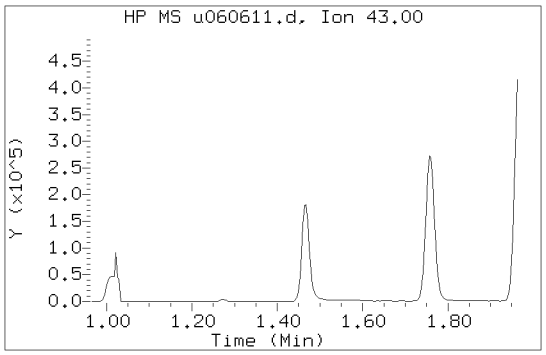
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08-Jun-2023
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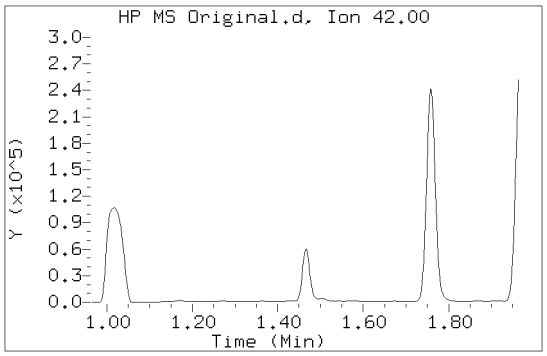

AFTER

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21-Jun-2023
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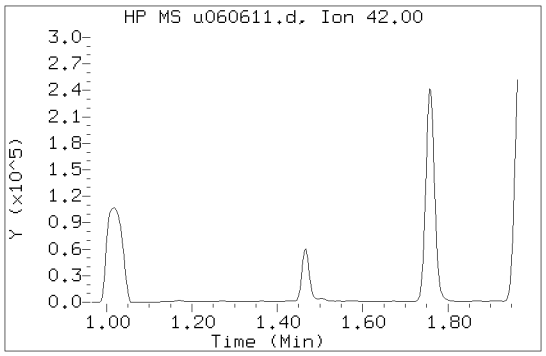

BEFORE

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08-Jun-2023
14:56
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AFTER

MASS
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AREA
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HEIGHT
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21-Jun-2023
13:48
linh
pha



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060612.D Page 1
Report Date: 21-Jun-2023 13:48

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060612.D
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Inj Date : 06-JUN-2023 15:19
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD150;VSTD150;1;9;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 15:19 Cal File: U060612.D
Als bottle: 13 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.819 | 4.819 | (1.000) | 693393 | 50.0000 | |
| 2 | Dichlorodifluoromethane | 85 | 1.168 | 1.168 | (0.242) | 960667 | 150.000 | 149.79 |
| 3 | Chloromethane | 50 | 1.299 | 1.299 | (0.270) | 1383207 | 150.000 | 134.48 |
| 5 | Vinyl Chloride | 62 | 1.378 | 1.378 | (0.286) | 1135719 | 150.000 | 154.84 |
| 6 | Bromomethane | 94 | 1.614 | 1.614 | (0.335) | 572508 | 150.000 | 155.55 |
| 7 | Chloroethane | 64 | 1.700 | 1.700 | (0.353) | 710334 | 150.000 | 143.77 |
| 8 | Trichlorofluoromethane | 101 | 1.899 | 1.899 | (0.394) | 1306396 | 150.000 | 155.08 |
| 9 | Acrolein | 56 | 2.270 | 2.270 | (0.471) | 101869 | 300.000 | 276.78 |
| 10 | Acetone | 43 | 2.412 | 2.412 | (0.501) | 669020 | 300.000 | 291.26 |
| 11 | 1,1-Dichloroethene | 96 | 2.337 | 2.337 | (0.485) | 792951 | 150.000 | 150.65 |
| 15 | Iodomethane | 142 | 2.472 | 2.472 | (0.513) | 1654094 | 300.000 | 314.13 |
| 16 | Acrylonitrile | 53 | 3.068 | 3.068 | (0.637) | 777948 | 300.000 | 302.53 |
| 17 | Methylene Chloride | 84 | 2.799 | 2.799 | (0.581) | 934598 | 150.000 | 149.80 |
| 18 | Methyl tert-butyl ether | 73 | 3.087 | 3.087 | (0.641) | 2427294 | 150.000 | 150.38 |
| 19 | Carbon Disulfide | 76 | 2.525 | 2.525 | (0.524) | 4369759 | 300.000 | 310.56 |
| 20 | trans-1,2-Dichloroethene | 96 | 3.065 | 3.065 | (0.636) | 854280 | 150.000 | 149.24 |
| 21 | Vinyl Acetate | 43 | 3.612 | 3.612 | (0.750) | 5494788 | 300.000 | 314.91 |
| 22 | 1,1-Dichloroethane | 63 | 3.518 | 3.518 | (0.730) | 1535399 | 150.000 | 141.14 |
| 24 | 2-Butanone | 43 | 4.272 | 4.272 | (0.886) | 886610 | 300.000 | 280.44 |
| 26 | 2,2-Dichloropropane | 77 | 4.186 | 4.186 | (0.869) | 1080274 | 150.000 | 149.40 |
| 27 | cis-1,2-Dichloroethene | 96 | 4.201 | 4.201 | (0.872) | 1008606 | 150.000 | 147.29 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 28 | Chloroform | 83 | 4.575 | 4.575 (0.949) | 1661391 | 150.000 | 146.74 |
| 29 | Bromochloromethane | 128 | 4.474 | 4.474 (0.928) | 547129 | 150.000 | 142.83 |

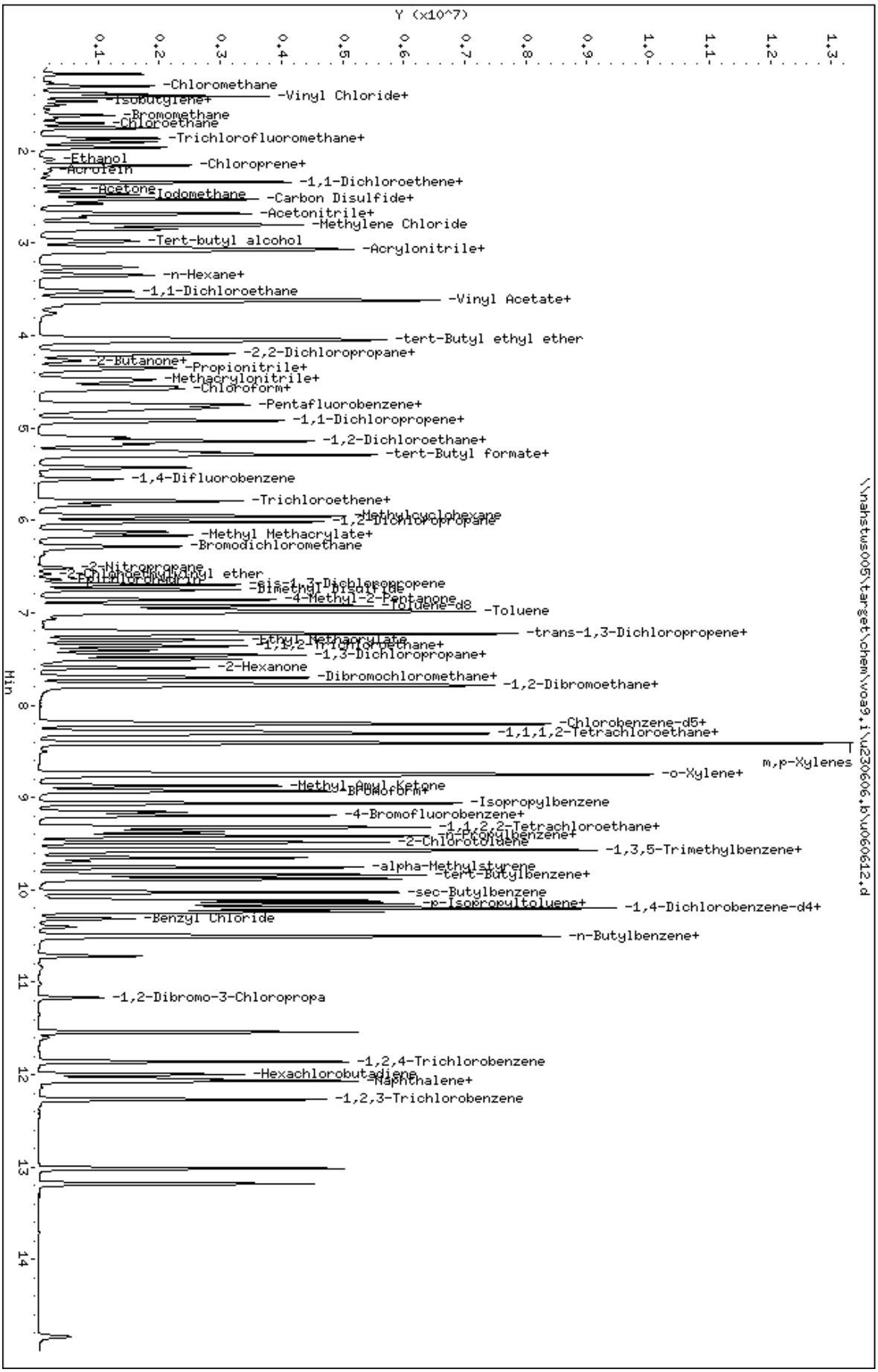
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| $ | 30 Dibromofluoromethane | 113 | 4.752 | 4.752 | (0.986) | 869167 | 150.000 | 149.96 |
| | 31 1,1,1-Trichloroethane | 97 | 4.744 | 4.744 | (0.984) | 1344181 | 150.000 | 155.77 |
| | 32 1,1-Dichloropropene | 75 | 4.924 | 4.924 | (0.887) | 1205862 | 150.000 | 156.12 |
| | 33 1,2-Dichloroethane | 62 | 5.179 | 5.179 | (0.933) | 1309746 | 150.000 | 143.58 |
| | 34 Carbon Tetrachloride | 117 | 4.913 | 4.913 | (0.885) | 1159204 | 150.000 | 163.38 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.058) | 944002 | 150.000 | 151.26 |
| * | 36 1,4-Difluorobenzene | 114 | 5.554 | 5.554 | (1.000) | 1053901 | 50.0000 | |
| | 37 Benzene | 78 | 5.141 | 5.141 | (0.926) | 3801057 | 150.000 | 149.67 |
| | 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.043) | 1087941 | 150.000 | 147.80 |
| | 39 Bromodichloromethane | 83 | 6.281 | 6.281 | (1.131) | 1283901 | 150.000 | 162.07 |
| | 41 2-Chloroethylvinyl ether | 63 | 6.581 | 6.581 | (1.185) | 81461 | 300.000 | 425.14(A) |
| | 42 1,2-Dichloropropane | 63 | 6.015 | 6.015 | (1.083) | 1011740 | 150.000 | 149.21 |
| | 44 Dibromomethane | 93 | 6.124 | 6.124 | (1.103) | 644143 | 150.000 | 148.67 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.858 | 6.858 | (0.838) | 2275634 | 300.000 | 307.02 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.693 | 6.693 | (1.205) | 1649908 | 150.000 | 151.42 |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 1017824 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.922 | (0.846) | 3265170 | 150.000 | 141.74 |
| | 50 Toluene | 91 | 6.982 | 6.982 | (0.853) | 4084070 | 150.000 | 147.94 |
| | 51 trans-1,3-Dichloropropene | 75 | 7.199 | 7.199 | (1.296) | 1382903 | 150.000 | 150.98 |
| | 52 2-Hexanone | 43 | 7.597 | 7.597 | (0.928) | 1507185 | 300.000 | 291.99 |
| | 53 1,1,2-Trichloroethane | 83 | 7.357 | 7.357 | (0.899) | 820894 | 150.000 | 142.91 |
| | 54 1,3-Dichloropropane | 76 | 7.499 | 7.499 | (0.916) | 1724053 | 150.000 | 146.90 |
| | 55 Dibromochloromethane | 129 | 7.694 | 7.694 | (0.940) | 1165162 | 150.000 | 170.96 |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 979028 | 150.000 | 145.56 |
| | 57 1,2-Dibromoethane | 107 | 7.788 | 7.788 | (0.951) | 1030570 | 150.000 | 145.44 |
| | 58 1-Chlorohexane | 55 | 8.200 | 8.200 | (1.476) | 831688 | 150.000 | 153.68 |
| | 59 Chlorobenzene | 112 | 8.212 | 8.212 | (1.003) | 2875380 | 150.000 | 145.94 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 8.287 | 8.287 | (1.012) | 1071450 | 150.000 | 158.22 |
| | 61 Ethylbenzene | 106 | 8.309 | 8.309 | (1.015) | 1466582 | 150.000 | 159.93 |
| | 62 m,p-Xylenes | 106 | 8.410 | 8.410 | (1.027) | 3636671 | 300.000 | 335.20 |
| | 63 o-Xylene | 106 | 8.748 | 8.748 | (1.069) | 1775674 | 150.000 | 165.67 |
| | 64 Styrene | 104 | 8.763 | 8.763 | (1.071) | 2956532 | 150.000 | 173.82 |
| | 66 Bromoform | 173 | 8.920 | 8.920 | (1.090) | 819014 | 150.000 | 178.03 |
| | 67 Isopropylbenzene | 105 | 9.063 | 9.063 | (1.107) | 4235878 | 150.000 | 164.54 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 9.329 | 9.329 | (0.917) | 1374039 | 150.000 | 140.32 |
| $ | 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 1355424 | 150.000 | 151.13 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 520569 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 9.362 | 9.362 | (0.920) | 1312413 | 150.000 | 152.35 |
| | 73 n-Propylbenzene | 91 | 9.415 | 9.415 | (0.926) | 4668789 | 150.000 | 170.98 |
| | 74 Bromobenzene | 156 | 9.317 | 9.317 | (0.916) | 1305028 | 150.000 | 148.57 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.565 | 9.565 | (0.940) | 3068129 | 150.000 | 163.78 |
| | 76 2-Chlorotoluene | 91 | 9.482 | 9.482 | (0.932) | 2928853 | 150.000 | 152.58 |
| | 77 4-Chlorotoluene | 91 | 9.576 | 9.576 | (0.941) | 3299464 | 150.000 | 155.29 |
| | 78 tert-Butylbenzene | 119 | 9.839 | 9.839 | (0.967) | 2957735 | 150.000 | 160.75 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.880 | 9.880 | (0.971) | 2991253 | 150.000 | 152.61 |
| | 81 sec-Butylbenzene | 105 | 10.026 | 10.026 | (0.986) | 3927022 | 150.000 | 168.30 |
| | 82 p-Isopropyltoluene | 119 | 10.150 | 10.150 | (0.998) | 3334448 | 150.000 | 170.58 |
| | 83 1,3-Dichlorobenzene | 146 | 10.116 | 10.116 | (0.994) | 2191876 | 150.000 | 146.92 |
| | 84 1,4-Dichlorobenzene | 146 | 10.191 | 10.191 | (1.002) | 2268941 | 150.000 | 142.64 |
| | 87 n-Butylbenzene | 91 | 10.495 | 10.495 | (1.032) | 2750567 | 150.000 | 164.36 |
| | 88 1,2-Dichlorobenzene | 146 | 10.506 | 10.506 | (1.033) | 2171343 | 150.000 | 145.16 |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 11.169 | 11.169 | (1.098) | 234556 | 150.000 | 164.15 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 90 1,2,4-Trichlorobenzene | 180 | 11.859 | 11.859 (1.166) | 1581317 | 150.000 | 153.70 |
| 91 Hexachlorobutadiene | 225 | 11.998 | 11.998 (1.179) | 641183 | 150.000 | 154.32 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 92 | Naphthalene | 128 | 12.069 | 12.069 | (1.186) | 3777446 | 150.000 | 158.06 |
| 93 | 1,2,3-Trichlorobenzene | 180 | 12.271 | 12.271 | (1.206) | 1515436 | 150.000 | 150.67 |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 1862886 | 300.000 | 296.53 |
| M 95 | Xylenes (total) | 106 | | | | 5412345 | 450.000 | 500.87 |
| 135 | 1,4-Dioxane | 88 | 6.172 | 6.172 | (1.281) | 279013 | 3000.00 | 2026.50 |
| 141 | Cyclohexane | 56 | 4.785 | 4.785 | (0.993) | 1346053 | 150.000 | 148.66 |
| 138 | Freon TF | 101 | 2.337 | 2.337 | (0.485) | 744713 | 150.000 | 159.91 |
| 140 | 1,3-Butadiene | 54 | 1.408 | 1.408 | (0.292) | 1026660 | 150.000 | 156.34 |
| 147 | Methylcyclohexane | 55 | 5.951 | 5.951 | (1.072) | 2435816 | 150.000 | 166.61(A) |
| 146 | Methyl Acetate | 43 | 2.720 | 2.720 | (0.564) | 806323 | 150.000 | 138.10 |
| 148 | Tert-Butyl alcohol | 59 | 2.975 | 2.975 | (0.617) | 1948328 | 3000.00 | 3051.23 |
| 149 | Isopropyl Alcohol | 45 | 2.574 | 2.574 | (0.534) | 1284183 | 3000.00 | 2833.01 |
| 72 | trans-1,4-Dichloro-2-butene | 53 | 9.377 | 9.377 | (1.146) | 204272 | 150.000 | 174.30(M) |
| 12 | Isobutyl Alcohol | 43 | 5.291 | 5.291 | (1.098) | 2767410 | 3000.00 | 3071.79(M) |
| 13 | Acetonitrile | 39 | 2.675 | 2.675 | (0.555) | 1141243 | 1500.00 | 1520.22 |
| 14 | Allyl Chloride | 41 | 2.679 | 2.679 | (0.556) | 2678647 | 150.000 | 148.79 |
| 25 | Methacrylonitrile | 41 | 4.500 | 4.500 | (0.934) | 649391 | 150.000 | 158.51 |
| 40 | Methyl Methacrylate | 41 | 6.161 | 6.161 | (1.278) | 969658 | 150.000 | 162.64 |
| 4 | Propionitrile | 54 | 4.347 | 4.347 | (0.902) | 1447622 | 1500.00 | 1444.77 |
| 136 | n-Hexane | 57 | 3.346 | 3.346 | (0.694) | 933406 | 150.000 | 149.31 |
| 194 | Acetaldehyde | 44 | 1.460 | 1.460 | (0.303) | 604743 | 600.000 | 632.36(M) |
| 131 | Methyl Acrylate | 55 | 4.373 | 4.373 | (0.907) | 1119010 | 150.000 | 152.59(M) |
| 200 | Dimethyl Disulfide | 94 | 6.750 | 6.750 | (0.825) | 1542342 | 150.000 | 156.55 |
| 23 | Chloroprene | 53 | 2.161 | 2.161 | (0.449) | 341381 | 150.000 | 154.36 |
| 49 | Ethyl Methacrylate | 69 | 7.293 | 7.293 | (1.313) | 1503706 | 150.000 | 162.76 |
| 166 | 1,2,3-Trimethylbenzene | 105 | 10.236 | 10.236 | (1.006) | 2909415 | 150.000 | 145.39 |
| 167 | Ethanol | 45 | 2.090 | 2.090 | (0.434) | 261491 | 3000.00 | 3068.37 |
| 164 | Dicyclopentadiene | 66 | 10.202 | 10.202 | (1.003) | 3912009 | 150.000 | 154.05 |
| 145 | alpha-Methylstyrene | 118 | 9.756 | 9.756 | (0.959) | 1521945 | 150.000 | 148.37 |
| 142 | Tetrahydrofuran | 42 | 4.549 | 4.549 | (0.944) | 364883 | 300.000 | 302.61 |
| 156 | Diisopropyl ether | 45 | 3.627 | 3.627 | (0.753) | 2879455 | 150.000 | 148.92 |
| 151 | 4-Methyl-2-pentanol | 45 | 7.226 | 7.226 | (1.301) | 4710347 | 3000.00 | 3005.64 |
| 150 | Allyl alcohol | 57 | 3.346 | 3.346 | (0.694) | 933406 | 3000.00 | 2986.18 |
| 86 | Benzyl Chloride | 91 | 10.311 | 10.311 | (1.260) | 988530 | 150.000 | 154.64 |
| 162 | Butyl acrylate | 55 | 8.733 | 8.733 | (1.067) | 1959643 | 150.000 | 162.76 |
| 139 | Diethyl ether | 59 | 2.150 | 2.150 | (0.446) | 716609 | 150.000 | 152.95 |
| 203 | 2-Ethylhexyl Acrylate | 55 | 12.043 | 12.043 | (1.184) | 905239 | 150.000 | 153.98 |
| 134 | Cyclohexanone | 55 | 9.156 | 9.156 | (0.900) | 877279 | 3000.00 | 2718.28 |
| 130 | Ethyl Acetate | 43 | 4.272 | 4.272 | (0.886) | 876170 | 150.000 | 141.35(M) |
| 189 | n-Butyl acetate | 43 | 7.709 | 7.709 | (0.942) | 1856486 | 150.000 | 160.19(M) |
| 182 | Epichlorohydrin | 57 | 6.633 | 6.633 | (1.194) | 78090 | 600.000 | 617.79 |
| 132 | n-Butanol | 56 | 5.835 | 5.835 | (1.211) | 629851 | 3000.00 | 3191.24 |

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.




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Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

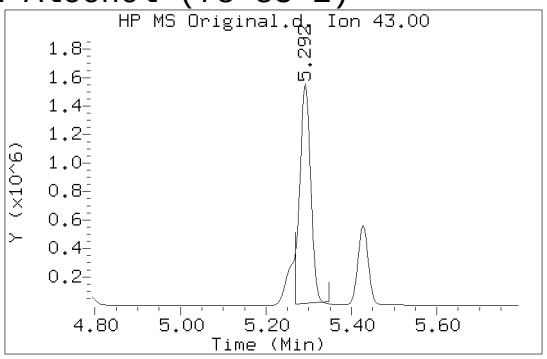
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Inj Date : 06-JUN-2023 15:19
InstruID : VOA9.i
LabSampID : VSTD150

## Isobutyl Alcohol (78-83-1)

Reason Code:

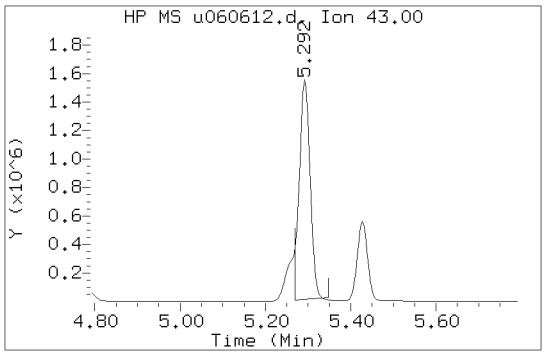
**BEFORE**

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08-Jun-2023
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pham



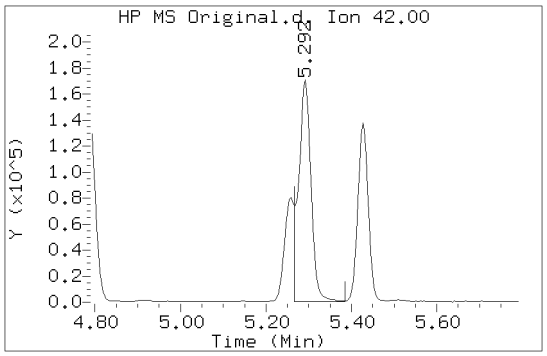

**AFTER**

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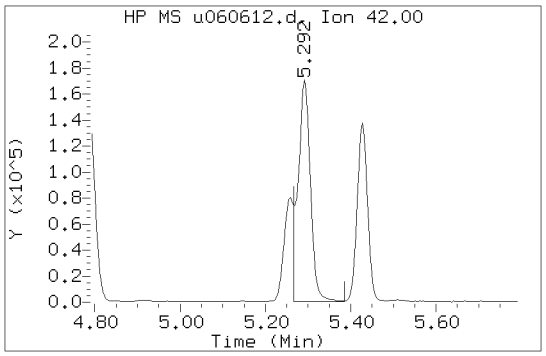

**BEFORE**

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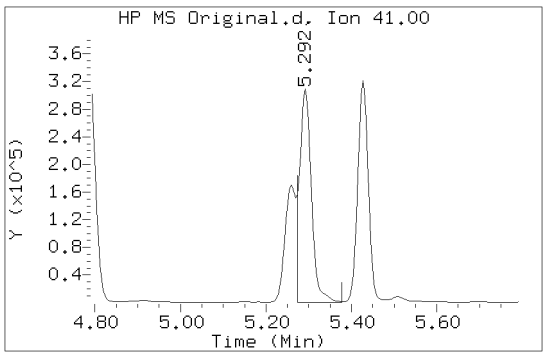

**AFTER**

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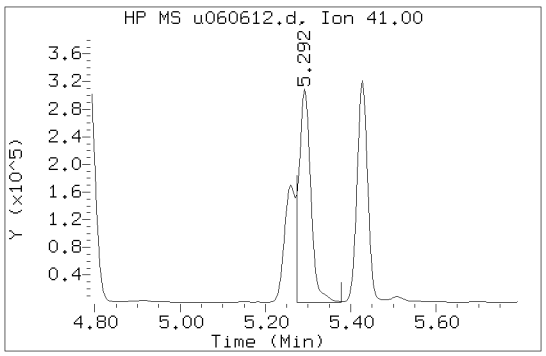

**BEFORE**

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08-Jun-2023
14:56
linh
pham




**AFTER**

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21-Jun-2023
13:48
linh
pha

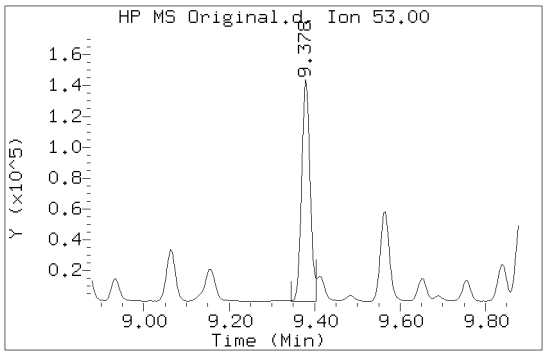



## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

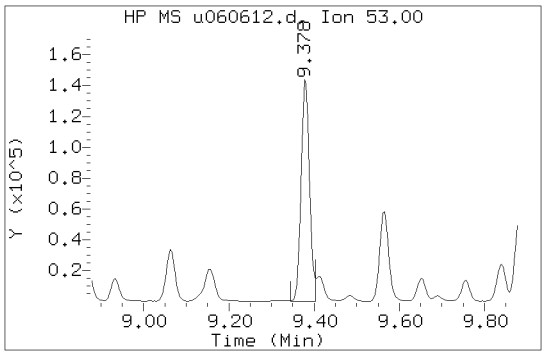
**BEFORE**

MASS
53
AREA
204272
HEIGHT
143427
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
53
AREA
204272
HEIGHT
143427
21-Jun-2023
13:48
linh
pha



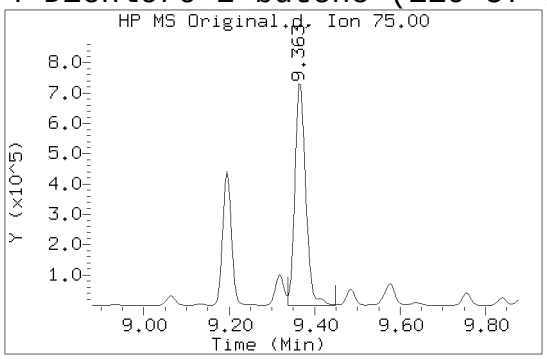
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Inj Date : 06-JUN-2023 15:19
InstruID : VOA9.i
LabSampID : VSTD150

## trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

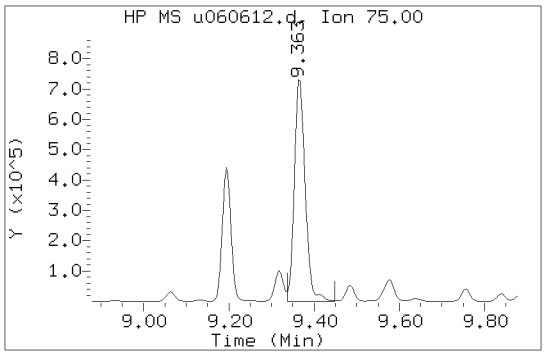
**BEFORE**

MASS
75
AREA
1312413
HEIGHT
730773
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
75
AREA
1312413
HEIGHT
730773
21-Jun-2023
13:48
linh
pha

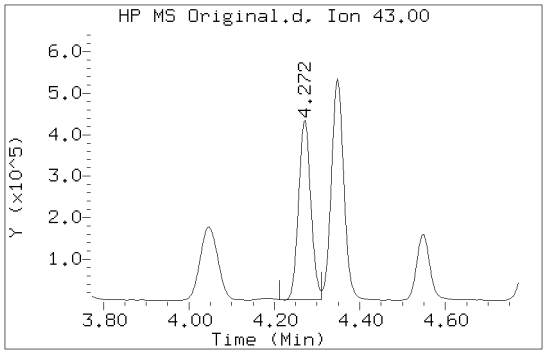



## Ethyl Acetate (141-78-6)

Reason Code:

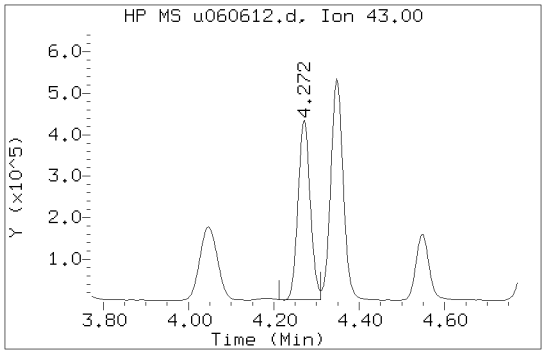
**BEFORE**

MASS
43
AREA
876170
HEIGHT
431666
08-Jun-2023
14:56
linh
pham



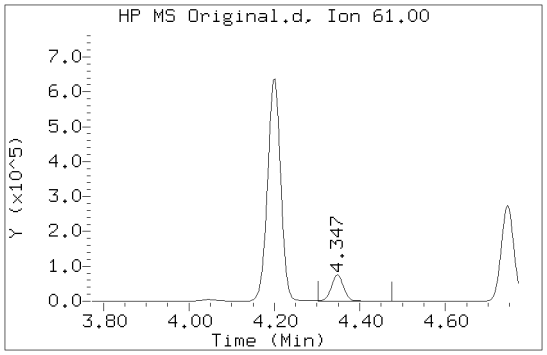

**AFTER**

MASS
43
AREA
876170
HEIGHT
431666
21-Jun-2023
13:48
linh
pha



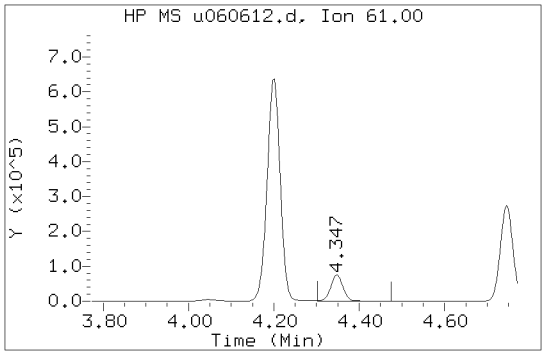

**BEFORE**

MASS
61
AREA
150537
HEIGHT
75621
08-Jun-2023
14:56
linh
pham



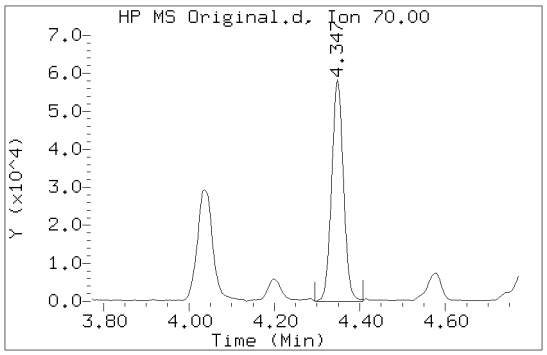

**AFTER**

MASS
61
AREA
150537
HEIGHT
75621
21-Jun-2023
13:48
linh
pha



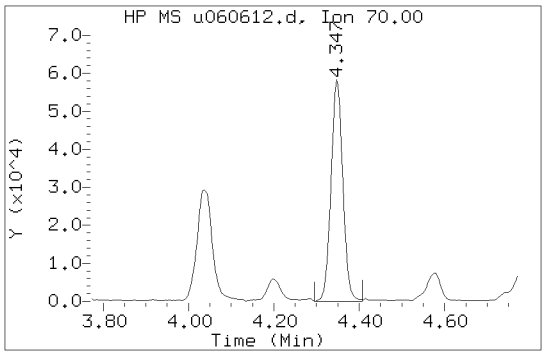

**BEFORE**

MASS
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AREA
111972
HEIGHT
58320
08-Jun-2023
14:56
linh
pham




**AFTER**

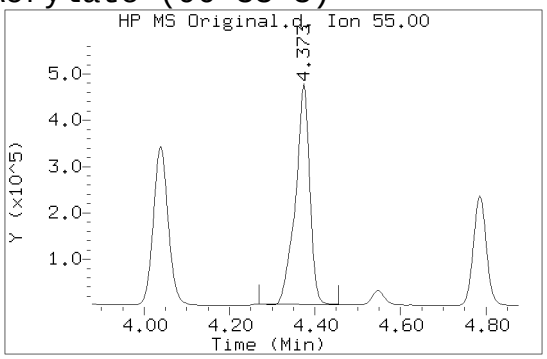
MASS
70
AREA
111972
HEIGHT
58320
21-Jun-2023
13:48
linh
pha



Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060612.d
Inj Date : 06-JUN-2023 15:19
InstruID : VOA9.i
LabSampID : VSTD150

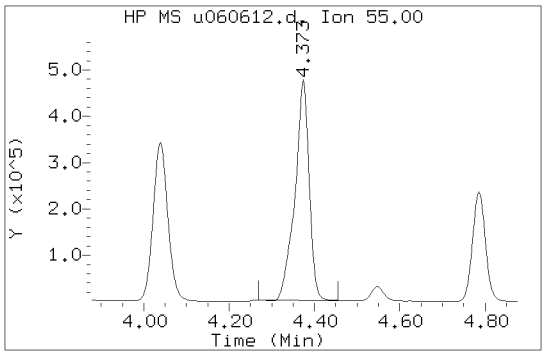
## Methyl Acrylate (96-33-3)

**BEFORE**
MASS
55
AREA
1119010
HEIGHT
476146
08-Jun-2023
14:56
linh
pham

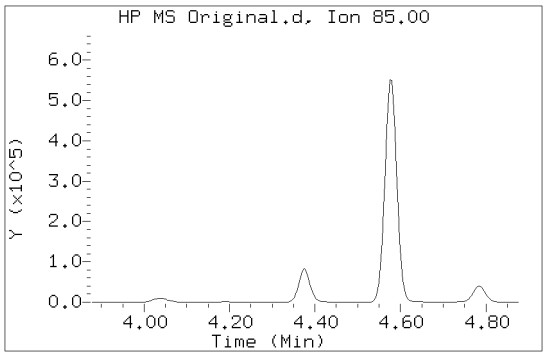



**AFTER**
MASS
55
AREA
1119010
HEIGHT
476146
21-Jun-2023
13:48
linh
pha

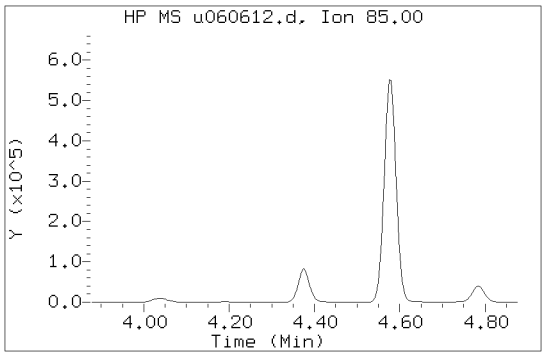
Reason Code:




**BEFORE**
MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

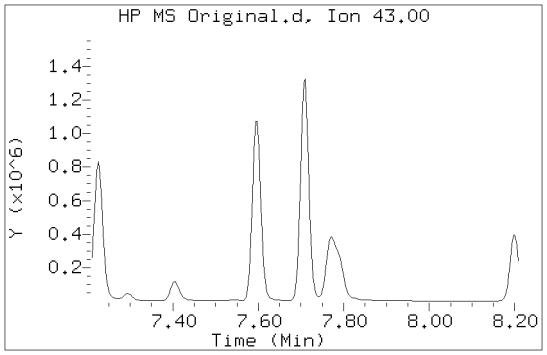



**AFTER**
MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha



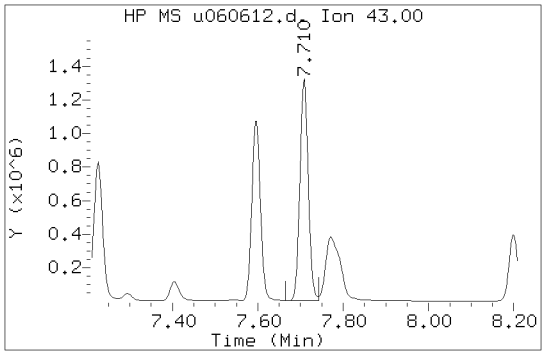

## n-Butyl acetate (123-86-4)

**BEFORE**
MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

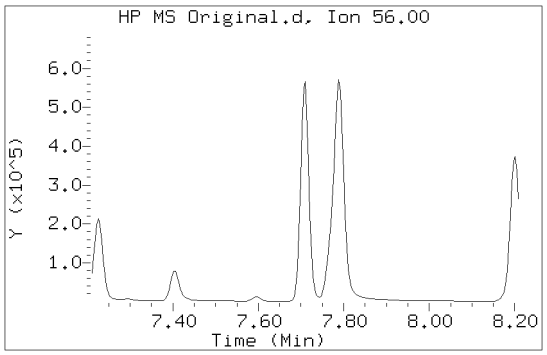



**AFTER**
MASS
43
AREA
1856486
HEIGHT
1319647
21-Jun-2023
13:48
linh
pha

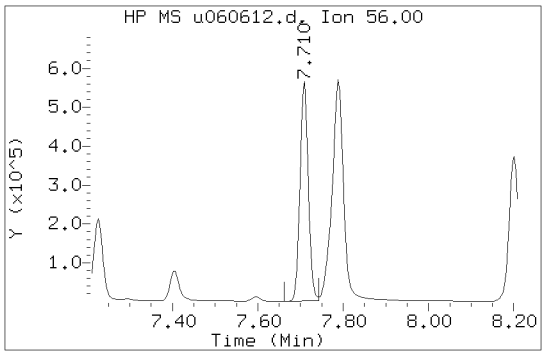
Reason Code:




**BEFORE**
MASS
56
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**
MASS
56
AREA
786040
HEIGHT
563695
21-Jun-2023
13:48
linh
pha



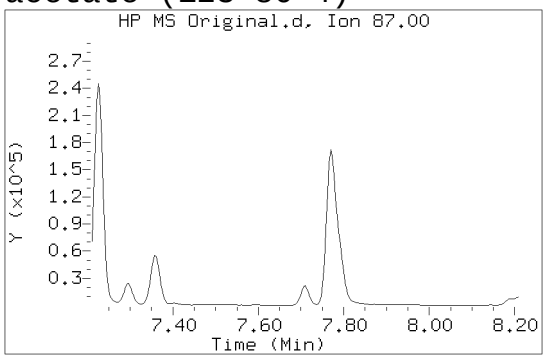
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060612.d
Inj Date : 06-JUN-2023 15:19
InstruID : VOA9.i
LabSampID : VSTD150

## n-Butyl acetate (123-86-4)

Reason Code:

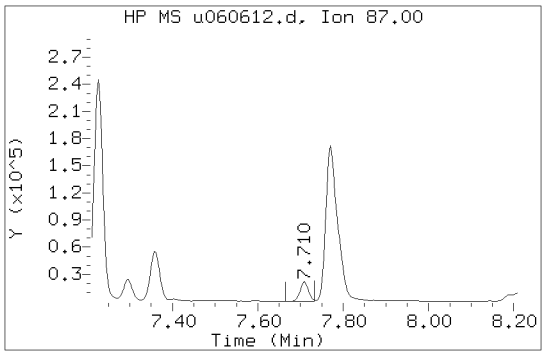
**BEFORE**

MASS
87
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
87
AREA
29771
HEIGHT
21756
21-Jun-2023
13:48
linh
pha

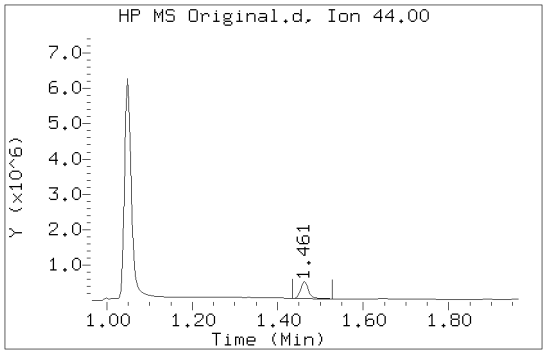



## Acetaldehyde (75-07-0)

Reason Code:

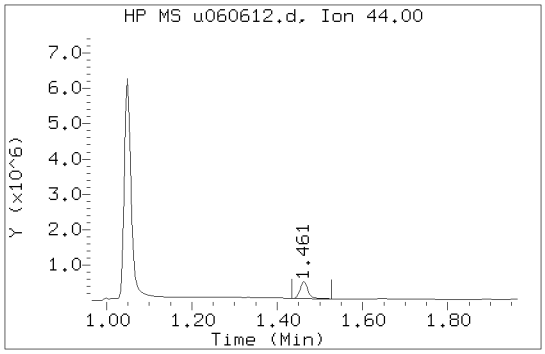
**BEFORE**

MASS
44
AREA
604743
HEIGHT
469447
08-Jun-2023
14:56
linh
pham



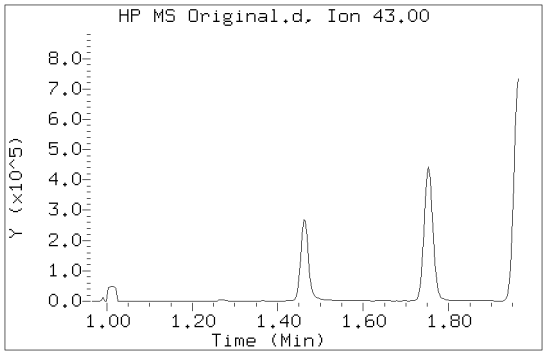

**AFTER**

MASS
44
AREA
604743
HEIGHT
469447
21-Jun-2023
13:48
linh
pha



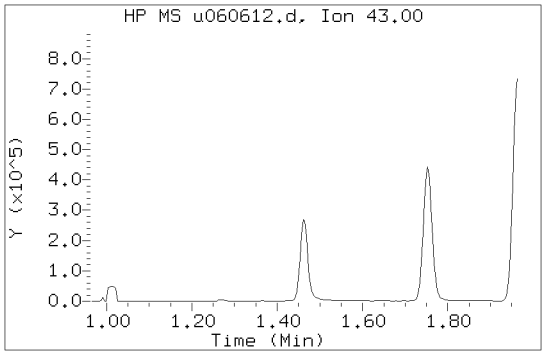

**BEFORE**

MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



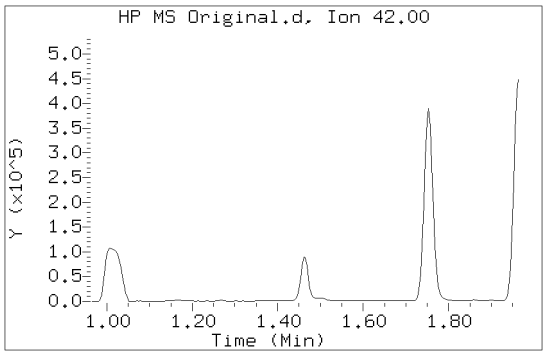

**AFTER**

MASS
43
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha



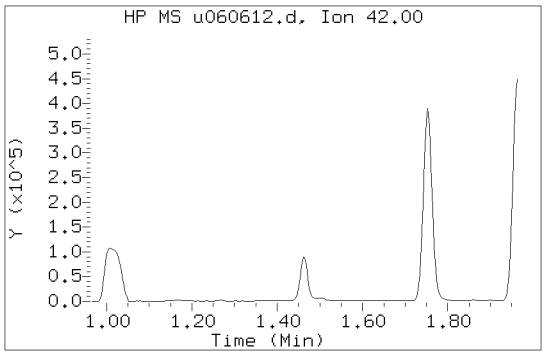

**BEFORE**

MASS
42
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
42
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060613.D  Page 1
Report Date: 21-Jun-2023 13:48

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060613.D
Lab Smp Id: VSTD200  Client Smp ID: VSTD200
Inj Date  : 06-JUN-2023 15:41
Operator  : PC  Inst ID: VOA9.i
Smp Info  : VSTD200;VSTD200;1;10;
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:45 pcabasca  Quant Type: ISTD
Cal Date  : 06-JUN-2023 15:41  Cal File: U060613.D
Als bottle: 14  Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.819 | 4.819 | (1.000) | 719289 | 50.0000 | |
| 2 | Dichlorodifluoromethane | 85 | 1.168 | 1.168 | (0.242) | 1327832 | 200.000 | 199.55 |
| 3 | Chloromethane | 50 | 1.303 | 1.303 | (0.270) | 1811207 | 200.000 | 170.11 |
| 5 | Vinyl Chloride | 62 | 1.382 | 1.382 | (0.287) | 1577666 | 200.000 | 207.36(A) |
| 6 | Bromomethane | 94 | 1.614 | 1.614 | (0.335) | 739966 | 200.000 | 194.26 |
| 7 | Chloroethane | 64 | 1.700 | 1.700 | (0.353) | 966868 | 200.000 | 188.65 |
| 8 | Trichlorofluoromethane | 101 | 1.903 | 1.903 | (0.395) | 1797881 | 200.000 | 205.74(A) |
| 9 | Acrolein | 56 | 2.270 | 2.270 | (0.471) | 145745 | 400.000 | 381.74 |
| 10 | Acetone | 43 | 2.416 | 2.416 | (0.501) | 921553 | 400.000 | 388.62 |
| 11 | 1,1-Dichloroethene | 96 | 2.341 | 2.341 | (0.486) | 1106671 | 200.000 | 202.69(A) |
| 15 | Iodomethane | 142 | 2.472 | 2.472 | (0.513) | 2389174 | 400.000 | 393.17 |
| 16 | Acrylonitrile | 53 | 3.072 | 3.072 | (0.638) | 1044690 | 400.000 | 391.64 |
| 17 | Methylene Chloride | 84 | 2.799 | 2.799 | (0.581) | 1286266 | 200.000 | 199.09 |
| 18 | Methyl tert-butyl ether | 73 | 3.087 | 3.087 | (0.641) | 3267974 | 200.000 | 195.18 |
| 19 | Carbon Disulfide | 76 | 2.525 | 2.525 | (0.524) | 6034238 | 400.000 | 413.41(A) |
| 20 | trans-1,2-Dichloroethene | 96 | 3.065 | 3.065 | (0.636) | 1205698 | 200.000 | 203.05(A) |
| 21 | Vinyl Acetate | 43 | 3.616 | 3.616 | (0.750) | 7382189 | 400.000 | 407.85(A) |
| 22 | 1,1-Dichloroethane | 63 | 3.522 | 3.522 | (0.731) | 2108962 | 200.000 | 186.89 |
| 24 | 2-Butanone | 43 | 4.272 | 4.272 | (0.886) | 1191616 | 400.000 | 363.35 |
| 26 | 2,2-Dichloropropane | 77 | 4.189 | 4.189 | (0.869) | 1505657 | 200.000 | 200.60(A) |
| 27 | cis-1,2-Dichloroethene | 96 | 4.204 | 4.204 | (0.872) | 1388156 | 200.000 | 195.41 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 28 | Chloroform | 83 | 4.579 | 4.579 (0.950) | 2274175 | 200.000 | 193.63 |
| 29 | Bromochloromethane | 128 | 4.474 | 4.474 (0.928) | 727780 | 200.000 | 183.15 |

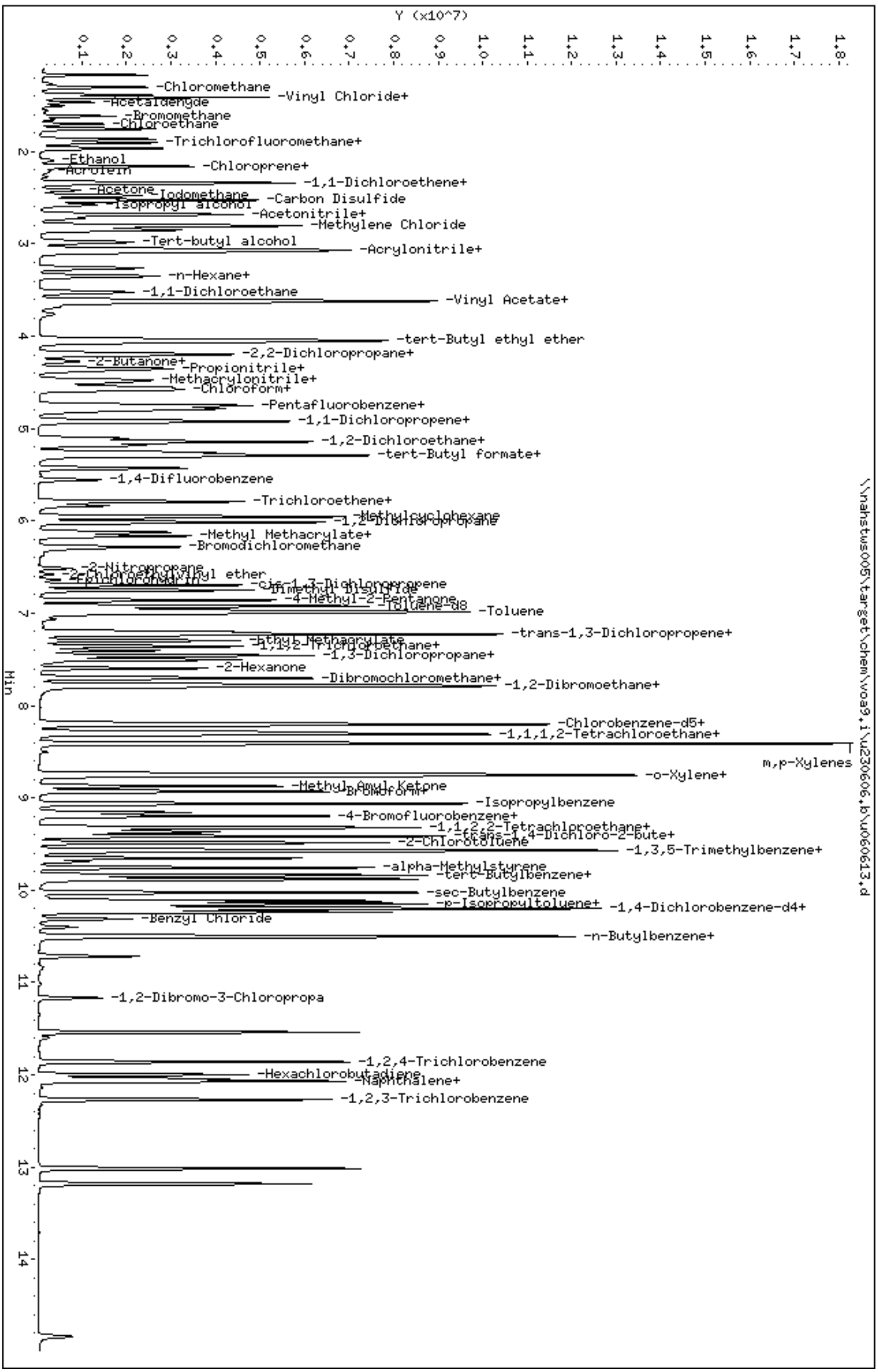
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| $ | 30 Dibromofluoromethane | 113 | 4.755 | 4.755 | (0.987) | 1189943 | 200.000 | 198.02 |
| | 31 1,1,1-Trichloroethane | 97 | 4.748 | 4.748 | (0.985) | 1886386 | 200.000 | 210.74(A) |
| | 32 1,1-Dichloropropene | 75 | 4.924 | 4.924 | (0.886) | 1700729 | 200.000 | 212.75(A) |
| | 33 1,2-Dichloroethane | 62 | 5.183 | 5.183 | (0.933) | 1771626 | 200.000 | 187.66 |
| | 34 Carbon Tetrachloride | 117 | 4.917 | 4.917 | (0.885) | 1637950 | 200.000 | 223.06(A) |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.104 | 5.104 | (1.059) | 1273587 | 200.000 | 196.93 |
| * | 36 1,4-Difluorobenzene | 114 | 5.558 | 5.558 | (1.000) | 1090740 | 50.0000 | |
| | 37 Benzene | 78 | 5.141 | 5.141 | (0.925) | 5184803 | 200.000 | 197.26 |
| | 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.042) | 1521502 | 200.000 | 199.72 |
| | 39 Bromodichloromethane | 83 | 6.281 | 6.281 | (1.130) | 1771493 | 200.000 | 216.07(A) |
| | 41 2-Chloroethylvinyl ether | 63 | 6.581 | 6.581 | (1.184) | 132164 | 400.000 | 666.47(A) |
| | 42 1,2-Dichloropropane | 63 | 6.015 | 6.015 | (1.082) | 1391632 | 200.000 | 198.30 |
| | 44 Dibromomethane | 93 | 6.124 | 6.124 | (1.102) | 883833 | 200.000 | 197.11 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.858 | 6.858 | (0.838) | 3098336 | 400.000 | 401.08(A) |
| | 46 cis-1,3-Dichloropropene | 75 | 6.693 | 6.693 | (1.204) | 2272308 | 200.000 | 200.87(A) |
| * | 47 Chlorobenzene-d5 | 117 | 8.189 | 8.189 | (1.000) | 1060812 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.926 | 6.926 | (0.846) | 4434953 | 200.000 | 184.71 |
| | 50 Toluene | 91 | 6.982 | 6.982 | (0.853) | 5549820 | 200.000 | 192.89 |
| | 51 trans-1,3-Dichloropropene | 75 | 7.199 | 7.199 | (1.295) | 1913130 | 200.000 | 201.14(A) |
| | 52 2-Hexanone | 43 | 7.597 | 7.597 | (0.928) | 2078685 | 400.000 | 386.39 |
| | 53 1,1,2-Trichloroethane | 83 | 7.357 | 7.357 | (0.898) | 1110628 | 200.000 | 185.51 |
| | 54 1,3-Dichloropropane | 76 | 7.503 | 7.503 | (0.916) | 2327172 | 200.000 | 190.26 |
| | 55 Dibromochloromethane | 129 | 7.694 | 7.694 | (0.940) | 1606540 | 200.000 | 226.17(A) |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 1393824 | 200.000 | 198.83 |
| | 57 1,2-Dibromoethane | 107 | 7.788 | 7.788 | (0.951) | 1398022 | 200.000 | 189.30 |
| | 58 1-Chlorohexane | 55 | 8.200 | 8.200 | (1.475) | 1197273 | 200.000 | 213.76(A) |
| | 59 Chlorobenzene | 112 | 8.212 | 8.212 | (1.003) | 3927200 | 200.000 | 191.25 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 8.287 | 8.287 | (1.012) | 1485967 | 200.000 | 210.54(A) |
| | 61 Ethylbenzene | 106 | 8.309 | 8.309 | (1.015) | 2034447 | 200.000 | 212.86(A) |
| | 62 m,p-Xylenes | 106 | 8.410 | 8.410 | (1.027) | 5028837 | 400.000 | 444.73(A) |
| | 63 o-Xylene | 106 | 8.748 | 8.748 | (1.068) | 2445057 | 200.000 | 218.88(A) |
| | 64 Styrene | 104 | 8.763 | 8.763 | (1.070) | 4009853 | 200.000 | 226.19(A) |
| | 66 Bromoform | 173 | 8.920 | 8.920 | (1.089) | 1122084 | 200.000 | 234.02(A) |
| | 67 Isopropylbenzene | 105 | 9.063 | 9.063 | (1.107) | 5892020 | 200.000 | 219.60(A) |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 9.332 | 9.332 | (0.917) | 1811573 | 200.000 | 181.35 |
| $ | 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 1832443 | 200.000 | 196.31 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 531037 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 9.366 | 9.366 | (0.921) | 1763864 | 200.000 | 200.72(A) |
| | 73 n-Propylbenzene | 91 | 9.415 | 9.415 | (0.926) | 6509511 | 200.000 | 233.69(A) |
| | 74 Bromobenzene | 156 | 9.321 | 9.321 | (0.916) | 1773376 | 200.000 | 197.92 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.565 | 9.565 | (0.940) | 4383254 | 200.000 | 229.37(A) |
| | 76 2-Chlorotoluene | 91 | 9.486 | 9.486 | (0.933) | 3980132 | 200.000 | 203.26(A) |
| | 77 4-Chlorotoluene | 91 | 9.576 | 9.576 | (0.941) | 4532900 | 200.000 | 209.14(A) |
| | 78 tert-Butylbenzene | 119 | 9.839 | 9.839 | (0.967) | 4141351 | 200.000 | 220.65(A) |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.880 | 9.880 | (0.971) | 4284336 | 200.000 | 214.27(A) |
| | 81 sec-Butylbenzene | 105 | 10.026 | 10.026 | (0.986) | 5530698 | 200.000 | 232.36(A) |
| | 82 p-Isopropyltoluene | 119 | 10.150 | 10.150 | (0.998) | 4785361 | 200.000 | 239.98(A) |
| | 83 1,3-Dichlorobenzene | 146 | 10.116 | 10.116 | (0.994) | 3007133 | 200.000 | 197.60 |
| | 84 1,4-Dichlorobenzene | 146 | 10.191 | 10.191 | (1.002) | 3094412 | 200.000 | 190.71 |
| | 87 n-Butylbenzene | 91 | 10.495 | 10.495 | (1.032) | 3970657 | 200.000 | 232.59(A) |
| | 88 1,2-Dichlorobenzene | 146 | 10.506 | 10.506 | (1.033) | 2966505 | 200.000 | 194.42 |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 11.169 | 11.169 | (1.098) | 327879 | 200.000 | 224.94(A) |

| | | | | | | |
|---|---|---|---|---|---|---|
| 90 1,2,4-Trichlorobenzene | 180 | 11.859 | 11.859 (1.166) | 2208303 | 200.000 | 210.41(A) |
| 91 Hexachlorobutadiene | 225 | 11.998 | 11.998 (1.179) | 915431 | 200.000 | 215.98(A) |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 92 Naphthalene | 128 | 12.069 | 12.069 | (1.186) | 5090967 | 200.000 | 208.82(A) |
| | 93 1,2,3-Trichlorobenzene | 180 | 12.268 | 12.268 | (1.206) | 2101950 | 200.000 | 204.86(A) |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 2593854 | 400.000 | 398.47 |
| M | 95 Xylenes (total) | 106 | | | | 7473894 | 600.000 | 663.61 |
| | 135 1,4-Dioxane | 88 | 6.172 | 6.172 | (1.281) | 359619 | 4000.00 | 2517.91 |
| | 141 Cyclohexane | 56 | 4.785 | 4.785 | (0.993) | 1948136 | 200.000 | 200.21(A) |
| | 138 Freon TF | 101 | 2.341 | 2.341 | (0.486) | 1062416 | 200.000 | 219.92(A) |
| | 140 1,3-Butadiene | 54 | 1.412 | 1.412 | (0.293) | 1426460 | 200.000 | 209.40(A) |
| | 147 Methylcyclohexane | 55 | 5.951 | 5.951 | (1.071) | 3311608 | 200.000 | 218.86(A) |
| | 146 Methyl Acetate | 43 | 2.720 | 2.720 | (0.564) | 1087855 | 200.000 | 179.61 |
| | 148 Tert-Butyl alcohol | 59 | 2.978 | 2.978 | (0.618) | 2615413 | 4000.00 | 3949.93 |
| | 149 Isopropyl Alcohol | 45 | 2.577 | 2.577 | (0.535) | 1712648 | 4000.00 | 3642.22 |
| | 72 trans-1,4-Dichloro-2-butene | 53 | 9.381 | 9.381 | (1.146) | 280535 | 200.000 | 229.67(A) |
| | 12 Isobutyl Alcohol | 43 | 5.291 | 5.291 | (1.098) | 3974379 | 4000.00 | 4252.69(AM) |
| | 13 Acetonitrile | 39 | 2.679 | 2.679 | (0.556) | 1502696 | 2000.00 | 1929.63 |
| | 14 Allyl Chloride | 41 | 2.679 | 2.679 | (0.556) | 3531503 | 200.000 | 189.10 |
| | 25 Methacrylonitrile | 41 | 4.500 | 4.500 | (0.934) | 862110 | 200.000 | 202.86(A) |
| | 40 Methyl Methacrylate | 41 | 6.161 | 6.161 | (1.278) | 1311723 | 200.000 | 212.09(A) |
| | 4 Propionitrile | 54 | 4.350 | 4.350 | (0.903) | 1943419 | 2000.00 | 1869.76 |
| | 136 n-Hexane | 57 | 3.350 | 3.350 | (0.695) | 1358253 | 200.000 | 199.96 |
| | 194 Acetaldehyde | 44 | 1.464 | 1.464 | (0.304) | 813402 | 800.000 | 819.92(AM) |
| | 131 Methyl Acrylate | 55 | 4.377 | 4.377 | (0.908) | 1518708 | 200.000 | 199.64(M) |
| | 200 Dimethyl Disulfide | 94 | 6.750 | 6.750 | (0.824) | 2303909 | 200.000 | 196.98 |
| | 23 Chloroprene | 53 | 2.165 | 2.165 | (0.449) | 488469 | 200.000 | 212.92(A) |
| | 49 Ethyl Methacrylate | 69 | 7.297 | 7.297 | (1.313) | 2085234 | 200.000 | 218.09(A) |
| | 166 1,2,3-Trimethylbenzene | 105 | 10.236 | 10.236 | (1.006) | 4057323 | 200.000 | 198.76 |
| | 167 Ethanol | 45 | 2.098 | 2.098 | (0.435) | 342926 | 4000.00 | 3885.10 |
| | 164 Dicyclopentadiene | 66 | 10.202 | 10.202 | (1.003) | 5181324 | 200.000 | 200.01(A) |
| | 145 alpha-Methylstyrene | 118 | 9.756 | 9.756 | (0.959) | 2162870 | 200.000 | 205.31(A) |
| | 142 Tetrahydrofuran | 42 | 4.549 | 4.549 | (0.944) | 488623 | 400.000 | 391.34 |
| | 156 Diisopropyl ether | 45 | 3.631 | 3.631 | (0.753) | 3891038 | 200.000 | 194.00 |
| | 151 4-Methyl-2-pentanol | 45 | 7.226 | 7.226 | (1.300) | 6448455 | 4000.00 | 3975.75 |
| | 150 Allyl alcohol | 57 | 3.350 | 3.350 | (0.695) | 1358253 | 4000.00 | 3999.38 |
| | 86 Benzyl Chloride | 91 | 10.311 | 10.311 | (1.259) | 1346925 | 200.000 | 201.11(A) |
| | 162 Butyl acrylate | 55 | 8.733 | 8.733 | (1.066) | 2685275 | 200.000 | 213.99(A) |
| | 139 Diethyl ether | 59 | 2.154 | 2.154 | (0.447) | 970215 | 200.000 | 199.62 |
| | 203 2-Ethylhexyl Acrylate | 55 | 12.039 | 12.039 | (1.184) | 1300346 | 200.000 | 198.09 |
| | 134 Cyclohexanone | 55 | 9.156 | 9.156 | (0.900) | 1223605 | 4000.00 | 3716.65 |
| | 130 Ethyl Acetate | 43 | 4.272 | 4.272 | (0.886) | 1152217 | 200.000 | 179.20(M) |
| | 189 n-Butyl acetate | 43 | 7.709 | 7.709 | (0.941) | 2542322 | 200.000 | 210.47(AM) |
| | 182 Epichlorohydrin | 57 | 6.633 | 6.633 | (1.194) | 120896 | 800.000 | 793.08 |
| | 132 n-Butanol | 56 | 5.835 | 5.835 | (1.211) | 859488 | 4000.00 | 4197.96(A) |

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.




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Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

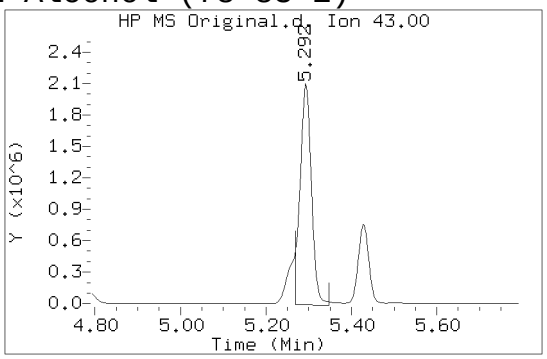
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InstruID : VOA9.i
LabSampID : VSTD200

## Isobutyl Alcohol (78-83-1)

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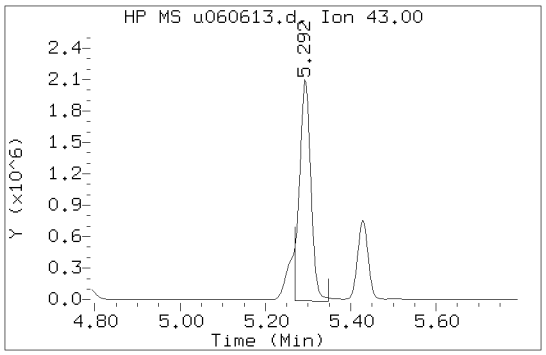
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08-Jun-2023
14:56
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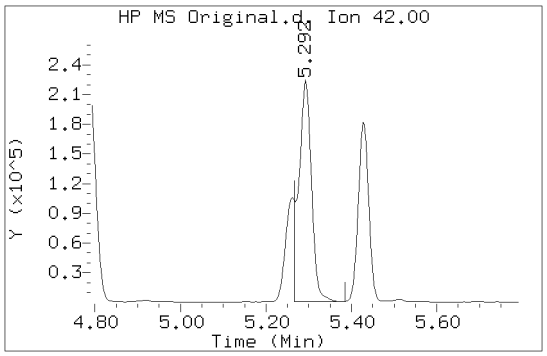

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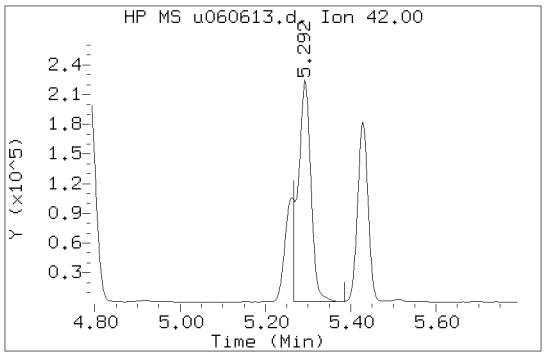

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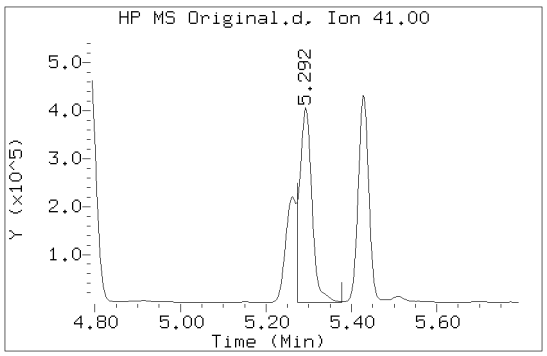

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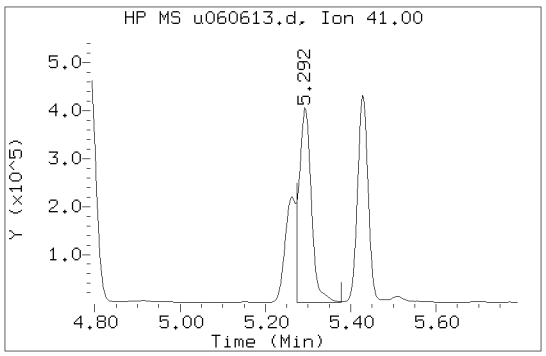

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**AFTER**

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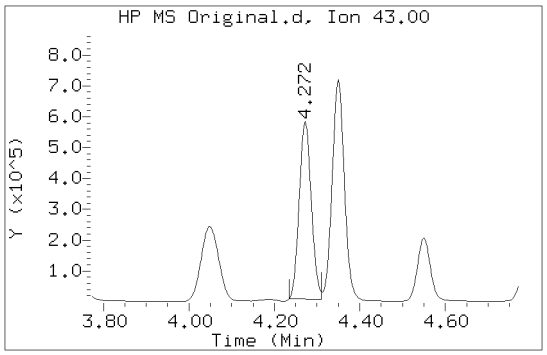



## Ethyl Acetate (141-78-6)

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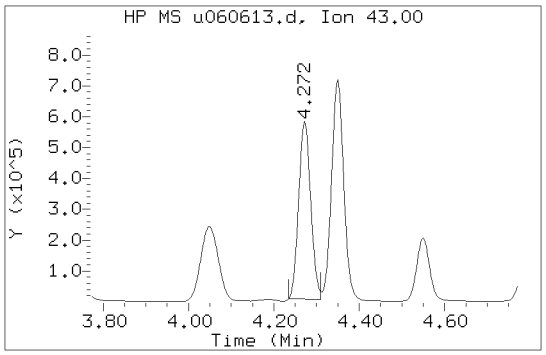
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**AFTER**

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21-Jun-2023
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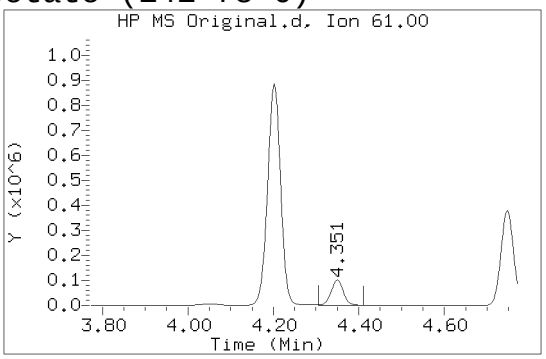


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InstruID : VOA9.i
LabSampID : VSTD200

## Ethyl Acetate (141-78-6)

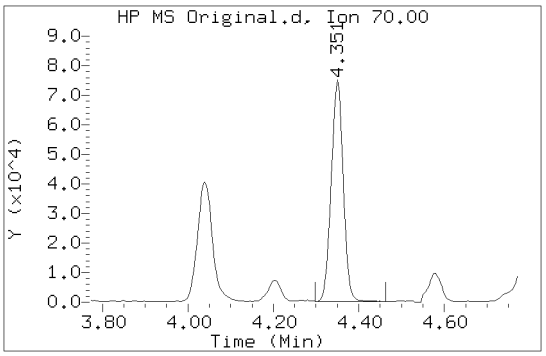
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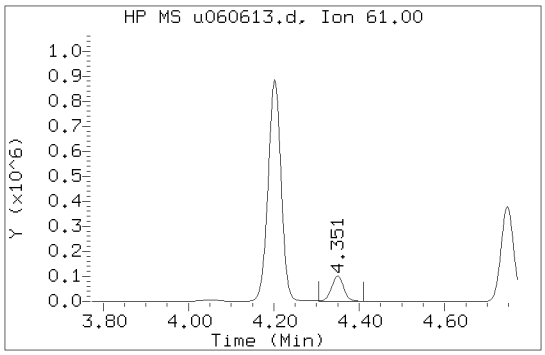
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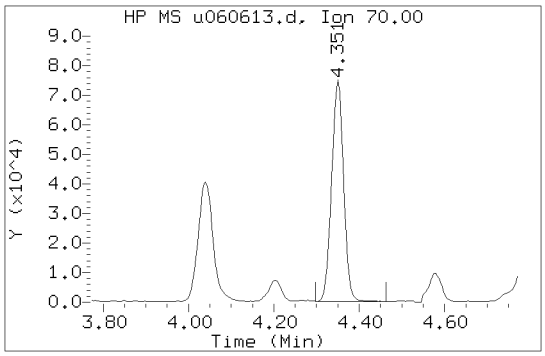
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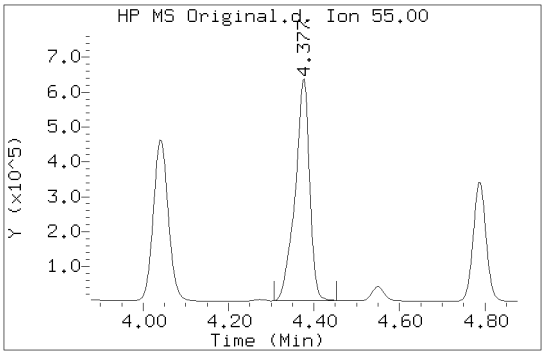
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## Methyl Acrylate (96-33-3)

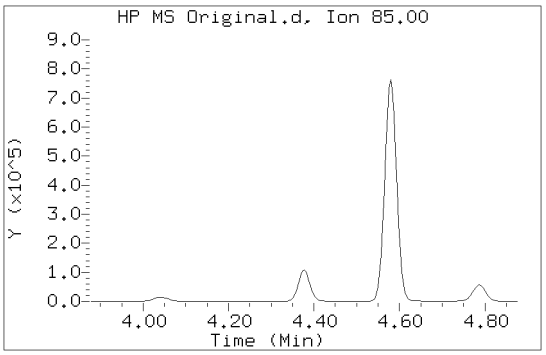
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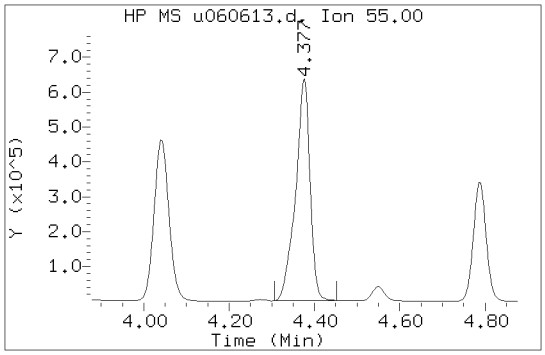
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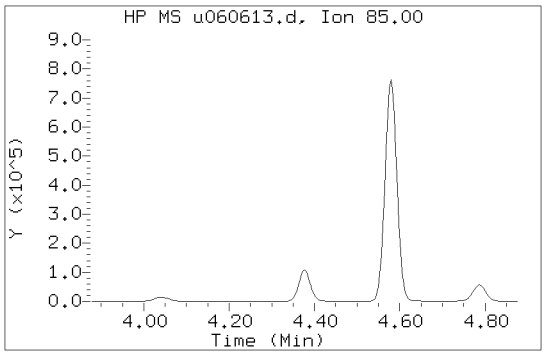
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**AFTER**

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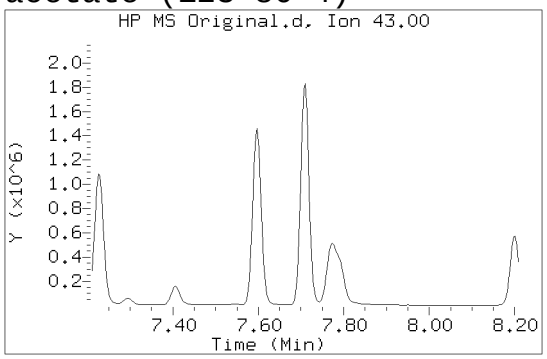


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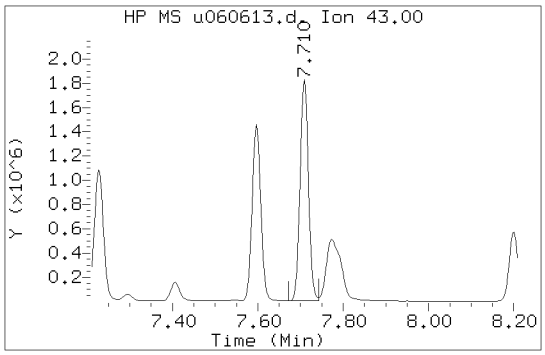
## n-Butyl acetate (123-86-4)

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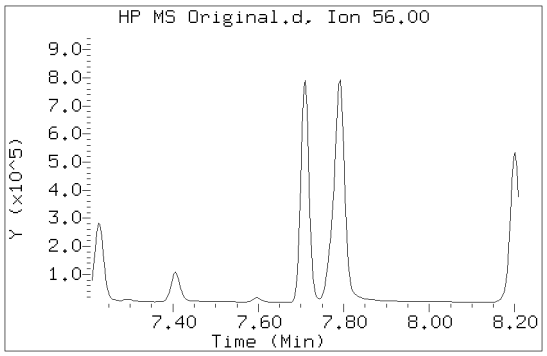
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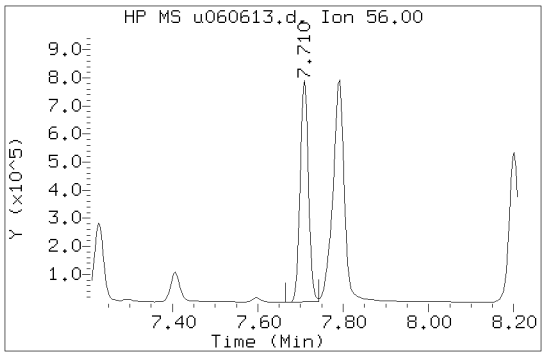

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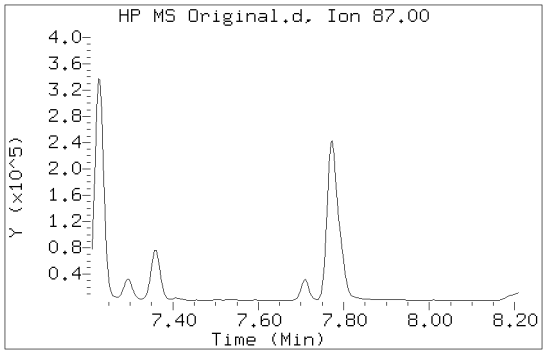

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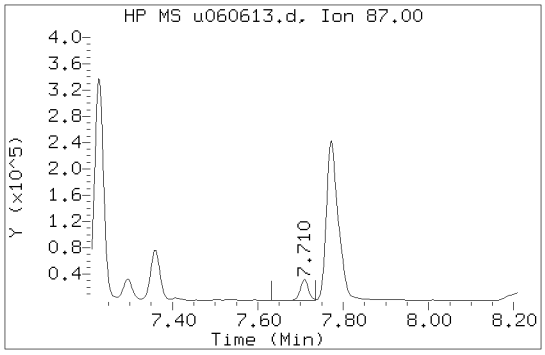

AFTER
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BEFORE
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pham



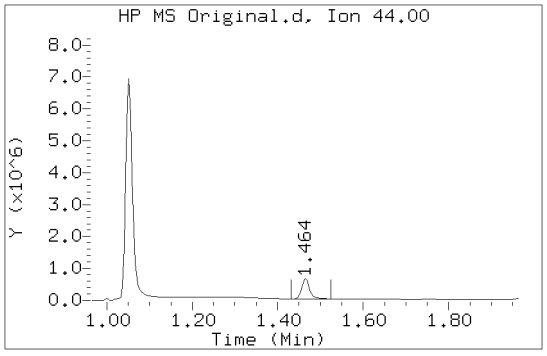

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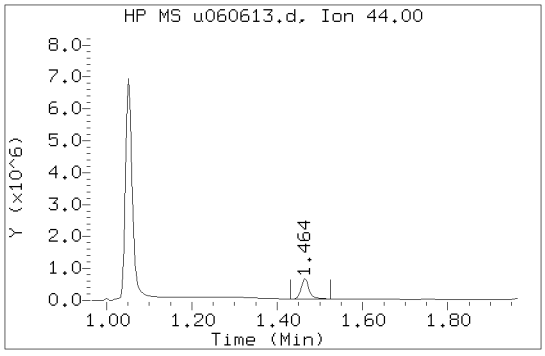

## Acetaldehyde (75-07-0)

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08-Jun-2023
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AFTER
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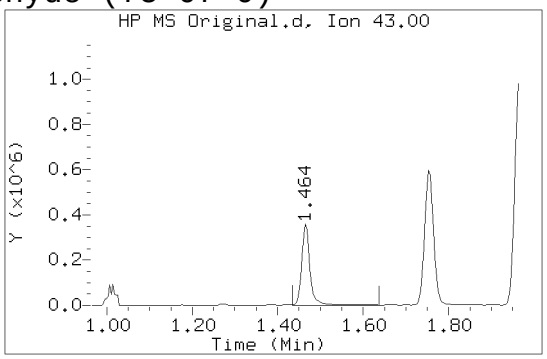
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Inj Date : 06-JUN-2023 15:41
InstruID : VOA9.i
LabSampID : VSTD200

## Acetaldehyde (75-07-0)

Reason Code:

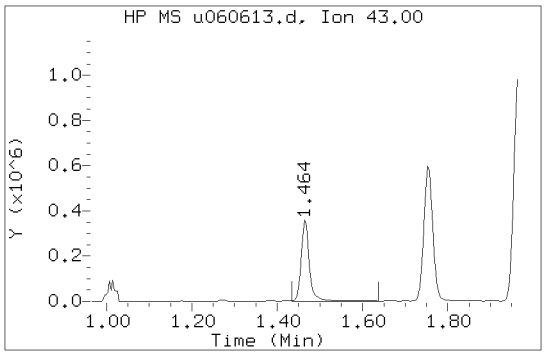
**BEFORE**

MASS
43
AREA
501173
HEIGHT
359936
08-Jun-2023
14:56
linh
pham



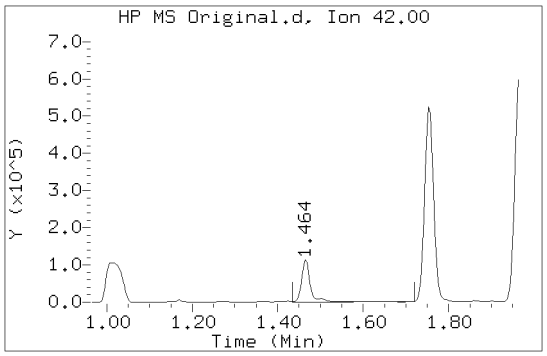

**AFTER**

MASS
43
AREA
501173
HEIGHT
359936
21-Jun-2023
13:48
linh
pha



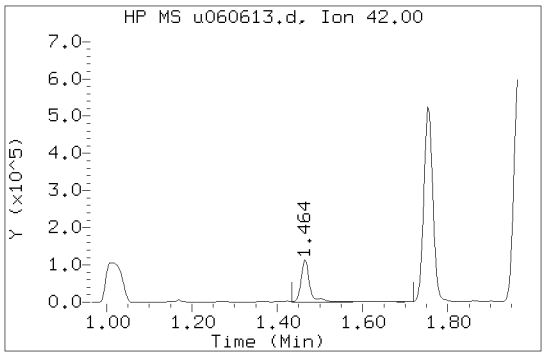

**BEFORE**

MASS
42
AREA
161560
HEIGHT
113645
08-Jun-2023
14:56
linh
pham




**AFTER**

MASS
42
AREA
161560
HEIGHT
113645
21-Jun-2023
13:48
linh
pha



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060616.D Page 1
Report Date: 21-Jun-2023 13:48

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060616.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 06-JUN-2023 16:48
Operator : PC Inst ID: VOA9.i
Smp Info : CCV;CCV;2;;;ICV
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 17 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.815 | 4.819 | (1.000) | 780826 | 50.0000 | |
| 2 Dichlorodifluoromethane | 85 | 1.160 | 1.168 | (0.241) | 313326 | 43.4411 | 43.44 |
| 3 Chloromethane | 50 | 1.295 | 1.303 | (0.269) | 478723 | 40.3986 | 40.39 |
| 5 Vinyl Chloride | 62 | 1.374 | 1.382 | (0.285) | 368340 | 44.5978 | 44.59 |
| 6 Bromomethane | 94 | 1.618 | 1.614 | (0.336) | 232986 | 55.0399 | 55.03 |
| 7 Chloroethane | 64 | 1.696 | 1.700 | (0.352) | 239922 | 43.1235 | 43.12 |
| 8 Trichlorofluoromethane | 101 | 1.895 | 1.903 | (0.394) | 416947 | 43.9550 | 43.95 |
| 9 Acrolein | 56 | 2.263 | 2.270 | (0.470) | 36231 | 87.4197 | 87.41 |
| 10 Acetone | 43 | 2.409 | 2.416 | (0.500) | 256579 | 95.4315 | 95.43 |
| 11 1,1-Dichloroethene | 96 | 2.334 | 2.341 | (0.485) | 257583 | 43.4598 | 43.45 |
| 15 Iodomethane | 142 | 2.469 | 2.472 | (0.513) | 390544 | 85.8965 | 85.89 |
| 16 Acrylonitrile | 53 | 3.065 | 3.072 | (0.636) | 264231 | 91.2502 | 91.25 |
| 17 Methylene Chloride | 84 | 2.795 | 2.799 | (0.580) | 325441 | 45.6146 | 45.61 |
| 18 Methyl tert-butyl ether | 73 | 3.080 | 3.087 | (0.640) | 820662 | 45.1527 | 45.15 |
| 19 Carbon Disulfide | 76 | 2.521 | 2.525 | (0.524) | 1475776 | 93.1400 | 93.13 |
| 20 trans-1,2-Dichloroethene | 96 | 3.057 | 3.065 | (0.635) | 292795 | 45.4251 | 45.42 |
| 21 Vinyl Acetate | 43 | 3.605 | 3.616 | (0.749) | 1831639 | 93.2206 | 93.22 |
| 22 1,1-Dichloroethane | 63 | 3.515 | 3.522 | (0.730) | 503967 | 41.1420 | 41.14 |
| 24 2-Butanone | 43 | 4.264 | 4.272 | (0.886) | 310116 | 87.1102 | 87.11 |
| 26 2,2-Dichloropropane | 77 | 4.182 | 4.189 | (0.868) | 371756 | 45.9347 | 45.93 |
| 27 cis-1,2-Dichloroethene | 96 | 4.197 | 4.204 | (0.872) | 341415 | 44.2752 | 44.27 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 28 | Chloroform | 83 | 4.572 | 4.579 (0.949) | 560655 | 43.9760 | 43.97 |
| 29 | Bromochloromethane | 128 | 4.470 | 4.474 (0.928) | 193817 | 44.9336 | 44.93 |

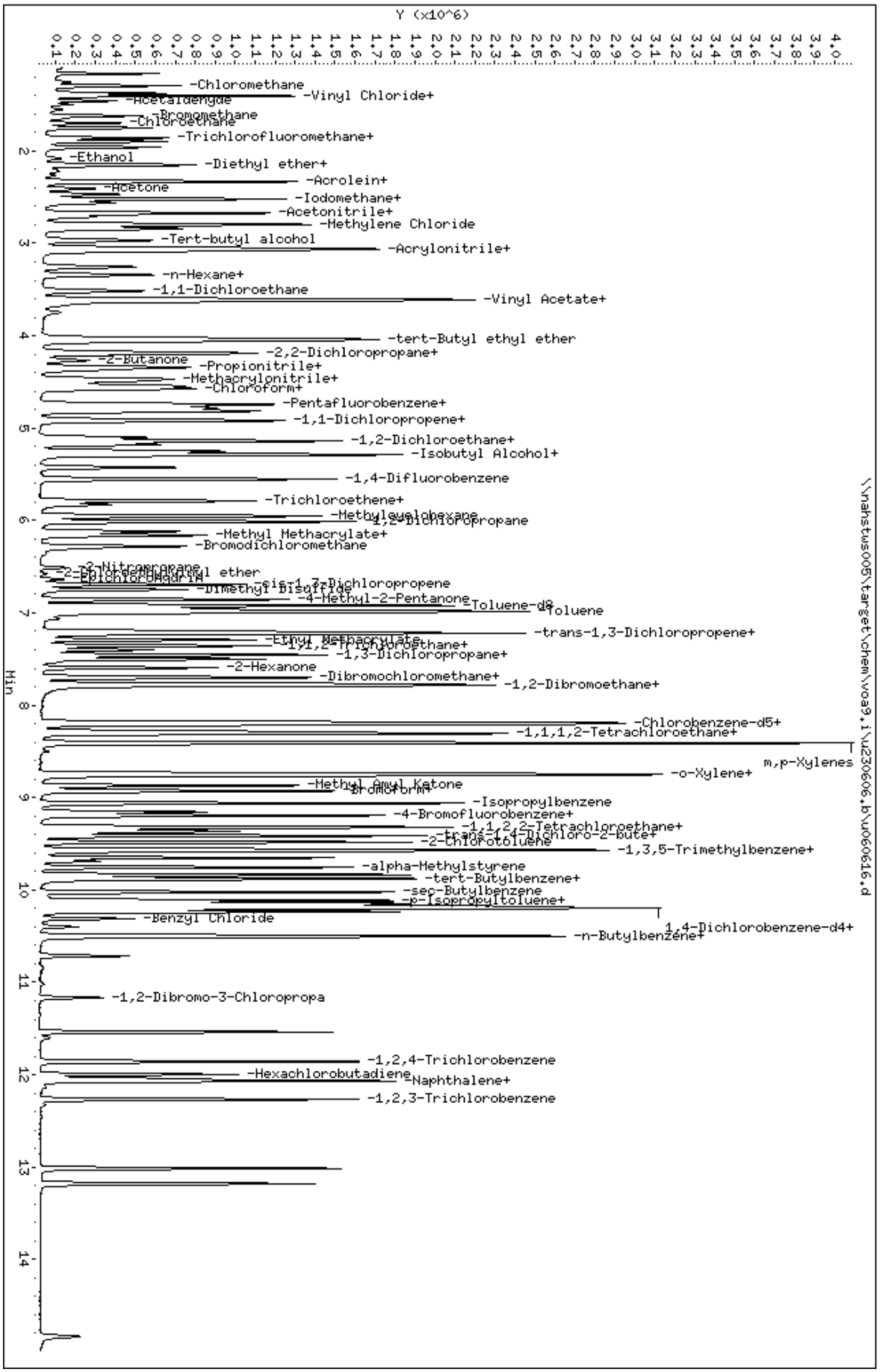
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| $ | 30 Dibromofluoromethane | 113 | 4.748 | 4.755 | (0.986) | 318316 | 48.5594 | 48.55 |
| | 31 1,1,1-Trichloroethane | 97 | 4.740 | 4.748 | (0.984) | 428686 | 44.1171 | 44.11 |
| | 32 1,1-Dichloropropene | 75 | 4.920 | 4.924 | (0.886) | 386704 | 45.6635 | 45.66 |
| | 33 1,2-Dichloroethane | 62 | 5.175 | 5.183 | (0.932) | 441937 | 44.1878 | 44.18 |
| | 34 Carbon Tetrachloride | 117 | 4.909 | 4.917 | (0.884) | 345264 | 44.3847 | 44.38 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.104 | (1.059) | 338506 | 47.7012 | 47.70 |
| * | 36 1,4-Difluorobenzene | 114 | 5.554 | 5.558 | (1.000) | 1155525 | 50.0000 | |
| | 37 Benzene | 78 | 5.138 | 5.141 | (0.925) | 1289605 | 46.3151 | 46.31 |
| | 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.043) | 360272 | 44.6411 | 44.64 |
| | 39 Bromodichloromethane | 83 | 6.281 | 6.281 | (1.131) | 414478 | 47.7201 | 47.72 |
| | 41 2-Chloroethylvinyl ether | 63 | 6.577 | 6.581 | (1.184) | 17278 | 82.2441 | 82.24(M) |
| | 42 1,2-Dichloropropane | 63 | 6.011 | 6.015 | (1.082) | 336299 | 45.2354 | 45.23 |
| | 44 Dibromomethane | 93 | 6.120 | 6.124 | (1.102) | 214846 | 45.2290 | 45.22 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.855 | 6.858 | (0.837) | 752796 | 97.7283 | 97.72 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.693 | 6.693 | (1.205) | 520852 | 44.9600 | 44.95 |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.189 | (1.000) | 1057791 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.926 | (0.846) | 1235345 | 51.5999 | 51.59 |
| | 50 Toluene | 91 | 6.982 | 6.982 | (0.853) | 1380191 | 48.1072 | 48.10 |
| | 51 trans-1,3-Dichloropropene | 75 | 7.200 | 7.199 | (1.296) | 429650 | 44.2325 | 44.23 |
| | 52 2-Hexanone | 43 | 7.593 | 7.597 | (0.928) | 496806 | 92.6111 | 92.61 |
| | 53 1,1,2-Trichloroethane | 83 | 7.357 | 7.357 | (0.899) | 272556 | 45.6579 | 45.65 |
| | 54 1,3-Dichloropropane | 76 | 7.499 | 7.503 | (0.916) | 578247 | 47.4115 | 47.41 |
| | 55 Dibromochloromethane | 129 | 7.694 | 7.694 | (0.940) | 366836 | 51.7915 | 51.79 |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 318249 | 45.5291 | 45.52 |
| | 57 1,2-Dibromoethane | 107 | 7.784 | 7.788 | (0.951) | 335864 | 45.6094 | 45.60 |
| | 58 1-Chlorohexane | 55 | 8.197 | 8.200 | (1.476) | 242405 | 40.8537 | 40.85 |
| | 59 Chlorobenzene | 112 | 8.208 | 8.212 | (1.003) | 941715 | 45.9914 | 45.99 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 8.283 | 8.287 | (1.012) | 345385 | 49.0774 | 49.07 |
| | 61 Ethylbenzene | 106 | 8.305 | 8.309 | (1.015) | 460758 | 48.3475 | 48.34 |
| | 62 m,p-Xylenes | 106 | 8.410 | 8.410 | (1.027) | 1140862 | 101.183 | 101.18 |
| | 63 o-Xylene | 106 | 8.748 | 8.748 | (1.069) | 558477 | 50.1380 | 50.13 |
| | 64 Styrene | 104 | 8.763 | 8.763 | (1.071) | 935490 | 52.9214 | 52.92 |
| | 66 Bromoform | 173 | 8.920 | 8.920 | (1.090) | 243942 | 51.0235 | 51.02 |
| | 67 Isopropylbenzene | 105 | 9.063 | 9.063 | (1.107) | 1308769 | 48.9183 | 48.91 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 9.329 | 9.332 | (0.917) | 454457 | 44.1598 | 44.15 |
| $ | 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 483743 | 51.3065 | 51.30 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 547105 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 9.363 | 9.366 | (0.920) | 415776 | 45.9243 | 45.92 |
| | 73 n-Propylbenzene | 91 | 9.411 | 9.415 | (0.925) | 1420825 | 49.5106 | 49.51 |
| | 74 Bromobenzene | 156 | 9.318 | 9.321 | (0.916) | 421969 | 45.7115 | 45.71 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.561 | 9.565 | (0.940) | 949218 | 48.2136 | 48.21 |
| | 76 2-Chlorotoluene | 91 | 9.482 | 9.486 | (0.932) | 943175 | 46.7536 | 46.75 |
| | 77 4-Chlorotoluene | 91 | 9.576 | 9.576 | (0.941) | 1080779 | 48.4010 | 48.40 |
| | 78 tert-Butylbenzene | 119 | 9.839 | 9.839 | (0.967) | 902133 | 46.6540 | 46.65 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.880 | 9.880 | (0.971) | 984625 | 47.7979 | 47.79 |
| | 81 sec-Butylbenzene | 105 | 10.022 | 10.026 | (0.985) | 1146037 | 46.7345 | 46.73 |
| | 82 p-Isopropyltoluene | 119 | 10.146 | 10.150 | (0.997) | 996804 | 48.5205 | 48.52 |
| | 83 1,3-Dichlorobenzene | 146 | 10.116 | 10.116 | (0.994) | 724727 | 46.2241 | 46.22 |
| | 84 1,4-Dichlorobenzene | 146 | 10.191 | 10.191 | (1.002) | 744273 | 44.5230 | 44.52 |
| | 87 n-Butylbenzene | 91 | 10.491 | 10.495 | (1.031) | 805977 | 45.8271 | 45.82 |
| | 88 1,2-Dichlorobenzene | 146 | 10.506 | 10.506 | (1.033) | 711620 | 45.2687 | 45.26 |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 11.166 | 11.169 | (1.098) | 71438 | 47.5707 | 47.57 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 90 1,2,4-Trichlorobenzene | 180 | 11.859 | 11.859 (1.166) | 514361 | 47.5706 | 47.57 |
| 91 Hexachlorobutadiene | 225 | 11.998 | 11.998 (1.179) | 185622 | 42.5095 | 42.50 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 92 Naphthalene | 128 | 12.065 | 12.069 | (1.186) | 1281110 | 51.0072 | 51.00 |
| | 93 1,2,3-Trichlorobenzene | 180 | 12.268 | 12.268 | (1.206) | 500164 | 47.3173 | 47.31 |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 634210 | 89.7003 | 89.70 |
| M | 95 Xylenes (total) | 106 | | | | 1699339 | 151.321 | 151.32 |
| | 135 1,4-Dioxane | 88 | 6.169 | 6.172 | (1.281) | 94832 | 611.650 | 611.64(R) |
| | 141 Cyclohexane | 56 | 4.782 | 4.785 | (0.993) | 401902 | 42.0727 | 42.07 |
| | 138 Freon TF | 101 | 2.334 | 2.341 | (0.485) | 222912 | 42.5073 | 42.50 |
| | 140 1,3-Butadiene | 54 | 1.404 | 1.412 | (0.292) | 342878 | 46.3679 | 46.36 |
| | 147 Methylcyclohexane | 55 | 5.947 | 5.951 | (1.071) | 742238 | 46.3048 | 46.30 |
| | 146 Methyl Acetate | 43 | 2.712 | 2.720 | (0.563) | 267638 | 40.7078 | 40.70 |
| | 148 Tert-Butyl alcohol | 59 | 2.967 | 2.978 | (0.616) | 653389 | 905.196 | 905.19 |
| | 149 Isopropyl Alcohol | 45 | 2.562 | 2.577 | (0.532) | 432312 | 846.925 | 846.92 |
| | 72 trans-1,4-Dichloro-2-butene | 53 | 9.378 | 9.381 | (1.146) | 66066 | 54.2434 | 54.24 |
| | 12 Isobutyl Alcohol | 43 | 5.288 | 5.291 | (1.098) | 1078739 | 1063.31 | 1063.31 |
| | 13 Acetonitrile | 39 | 2.671 | 2.679 | (0.555) | 369725 | 437.354 | 437.35 |
| | 14 Allyl Chloride | 41 | 2.671 | 2.679 | (0.555) | 881221 | 43.4696 | 43.46 |
| | 25 Methacrylonitrile | 41 | 4.497 | 4.500 | (0.934) | 220001 | 47.6887 | 47.68 |
| | 40 Methyl Methacrylate | 41 | 6.157 | 6.161 | (1.279) | 319473 | 47.5853 | 47.58 |
| | 4 Propionitrile | 54 | 4.339 | 4.350 | (0.901) | 504761 | 447.359 | 447.35 |
| | 136 n-Hexane | 57 | 3.342 | 3.350 | (0.694) | 279959 | 43.1157 | 43.11 |
| | 194 Acetaldehyde | 44 | 1.457 | 1.464 | (0.303) | 213458 | 198.213 | 198.21(M) |
| | 131 Methyl Acrylate | 55 | 4.369 | 4.377 | (0.907) | 376406 | 45.5808 | 45.58(M) |
| | 200 Dimethyl Disulfide | 94 | 6.746 | 6.750 | (0.824) | 342782 | 43.9278 | 43.92 |
| | 23 Chloroprene | 53 | 2.158 | 2.165 | (0.448) | 106743 | 42.8616 | 42.86(M) |
| | 49 Ethyl Methacrylate | 69 | 7.293 | 7.297 | (1.313) | 493833 | 48.7533 | 48.75 |
| | 166 1,2,3-Trimethylbenzene | 105 | 10.236 | 10.236 | (1.006) | 946548 | 45.0091 | 45.00 |
| | 167 Ethanol | 45 | 2.083 | 2.098 | (0.433) | 87414 | 894.820 | 894.81 |
| | 164 Dicyclopentadiene | 66 | 10.198 | 10.202 | (1.003) | 1170894 | 43.8737 | 43.87 |
| | 145 alpha-Methylstyrene | 118 | 9.752 | 9.756 | (0.959) | 456404 | 44.8638 | 44.86 |
| | 142 Tetrahydrofuran | 42 | 4.545 | 4.549 | (0.944) | 124728 | 90.2172 | 90.21 |
| | 156 Diisopropyl ether | 45 | 3.623 | 3.631 | (0.752) | 968924 | 44.5026 | 44.50 |
| | 151 4-Methyl-2-pentanol | 45 | 7.222 | 7.226 | (1.300) | 1465561 | 852.923 | 852.92 |
| | 150 Allyl alcohol | 57 | 3.342 | 3.350 | (0.694) | 279959 | 862.620 | 862.62 |
| | 86 Benzyl Chloride | 91 | 10.311 | 10.311 | (1.260) | 308230 | 48.8252 | 48.82 |
| | 162 Butyl acrylate | 55 | 8.733 | 8.733 | (1.067) | 606576 | 48.4779 | 48.47 |
| | 139 Diethyl ether | 59 | 2.143 | 2.154 | (0.445) | 236202 | 44.7701 | 44.77 |
| | 203 2-Ethylhexyl Acrylate | 55 | 12.043 | 12.039 | (1.184) | 256043 | 48.8830 | 48.88 |
| | 134 Cyclohexanone | 55 | 9.153 | 9.156 | (0.900) | 315426 | 929.955 | 929.95 |
| | 130 Ethyl Acetate | 43 | 4.343 | 4.272 | (0.902) | 367738 | 52.6863 | 52.68 |
| | 189 n-Butyl acetate | 43 | 7.706 | 7.709 | (0.941) | 585580 | 48.6187 | 48.61(M) |
| | 182 Epichlorohydrin | 57 | 6.633 | 6.633 | (1.194) | 19670 | 179.479 | 179.47 |
| | 132 n-Butanol | 56 | 5.831 | 5.835 | (1.211) | 194822 | 876.568 | 876.56 |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.




Data File: \\nahstws005\target\chem\voa9.i\u230606.b\u060616.d
Date : 06-JUN-2023 16:48
Client ID: ICV
Sample Info: CCV;CCV;2;;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

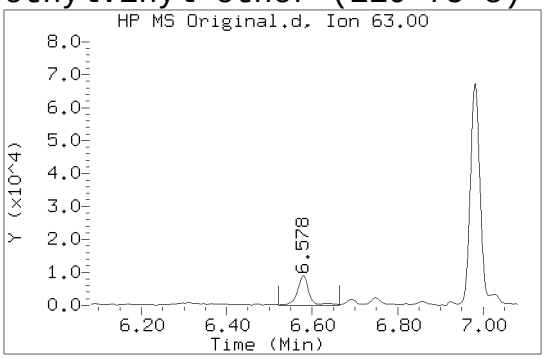
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Inj Date : 06-JUN-2023 16:48
InstruID : VOA9.i
LabSampID : ICV

## 2-Chloroethylvinyl ether (110-75-8)

Reason Code:

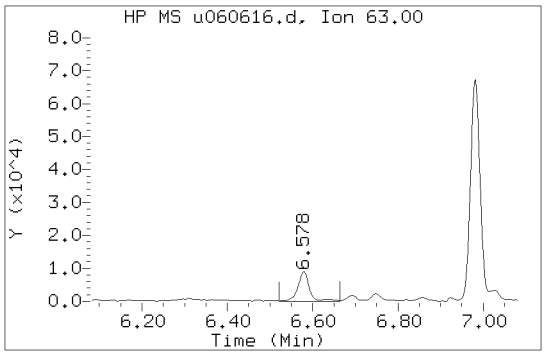
BEFORE

MASS
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HEIGHT
8945
08-Jun-2023
14:56
linh
pham



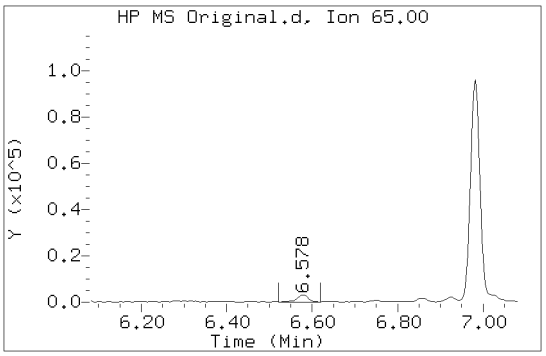

AFTER

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21-Jun-2023
13:48
linh
pha



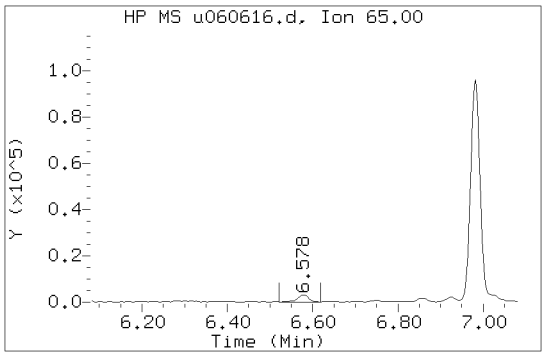

BEFORE

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08-Jun-2023
14:56
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pham



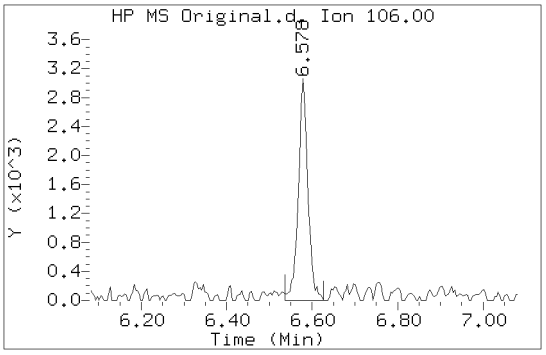

AFTER

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21-Jun-2023
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linh
pha



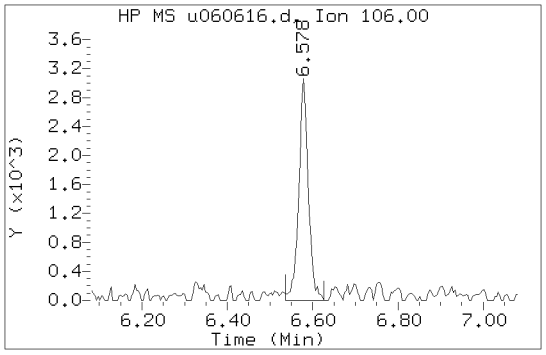

BEFORE

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08-Jun-2023
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AFTER

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21-Jun-2023
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pha

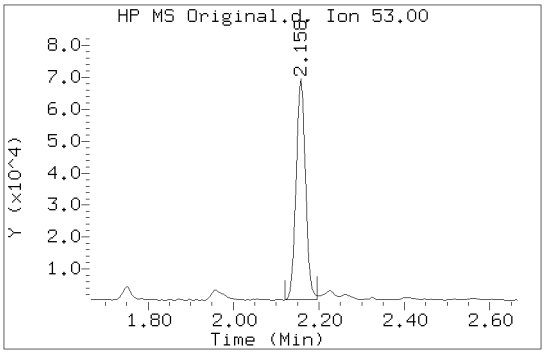



## Chloroprene (126-99-8)

Reason Code:

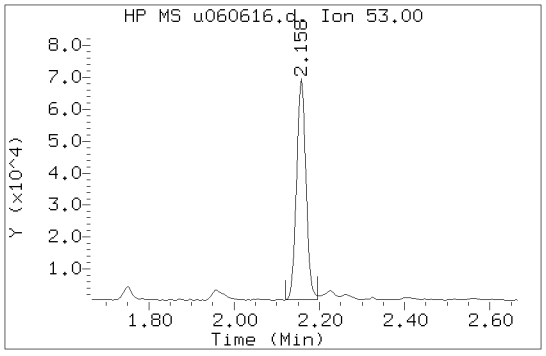
BEFORE

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AFTER

MASS
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HEIGHT
69224
21-Jun-2023
13:48
linh
pha



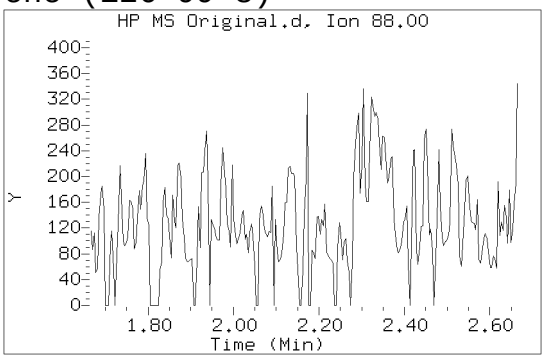
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Inj Date : 06-JUN-2023 16:48
InstruID : VOA9.i
LabSampID : ICV

## Chloroprene (126-99-8)

Reason Code:

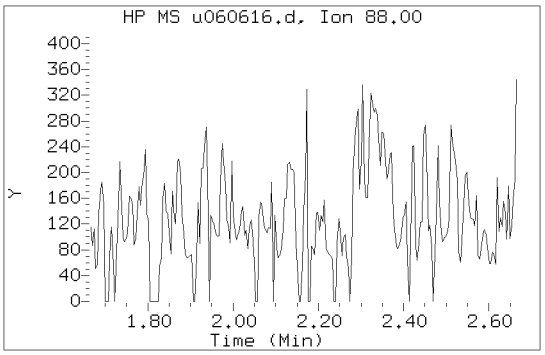
BEFORE

MASS
88
AREA
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HEIGHT
0
08-Jun-2023
14:56
linh
pham




AFTER

MASS
88
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha

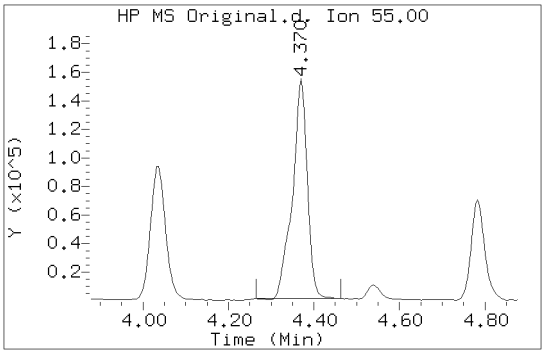



## Methyl Acrylate (96-33-3)

Reason Code:

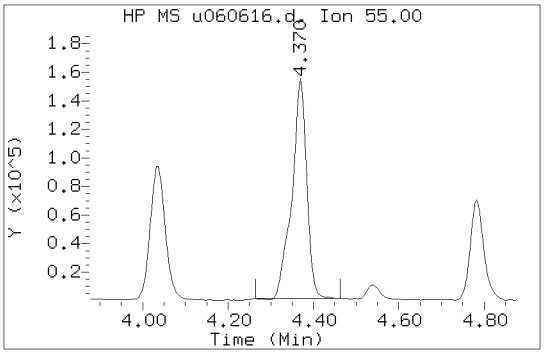
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HEIGHT
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08-Jun-2023
14:56
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pham



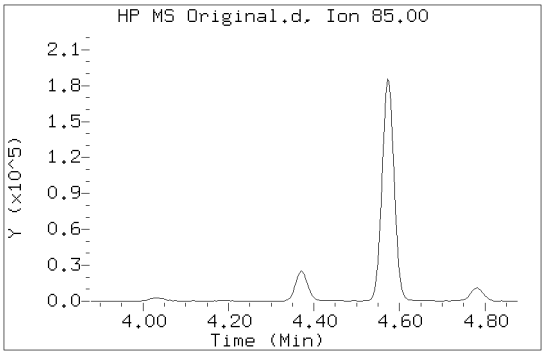

AFTER

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AREA
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HEIGHT
153880
21-Jun-2023
13:48
linh
pha



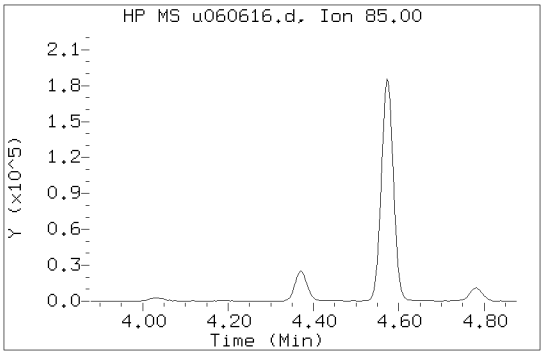

BEFORE

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85
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HEIGHT
0
08-Jun-2023
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pham




AFTER

MASS
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AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha

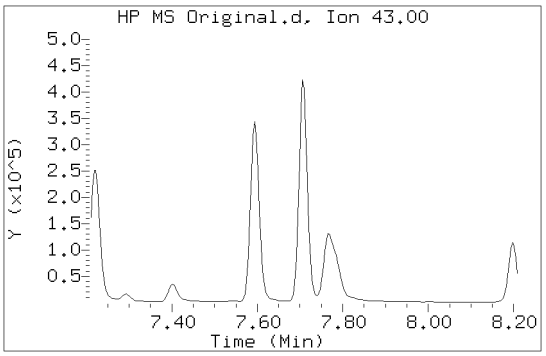



## n-Butyl acetate (123-86-4)

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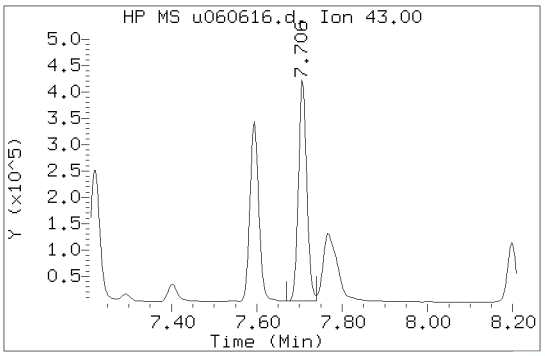
BEFORE

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HEIGHT
0
08-Jun-2023
14:56
linh
pham




AFTER

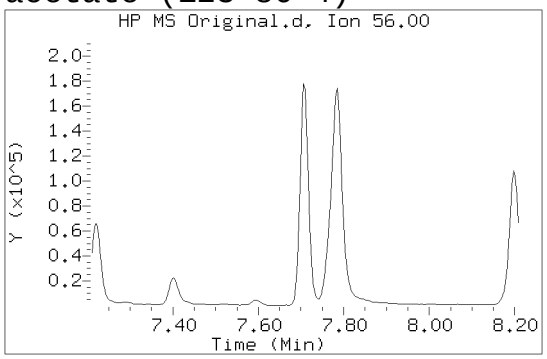
MASS
43
AREA
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HEIGHT
419610
21-Jun-2023
13:48
linh
pha



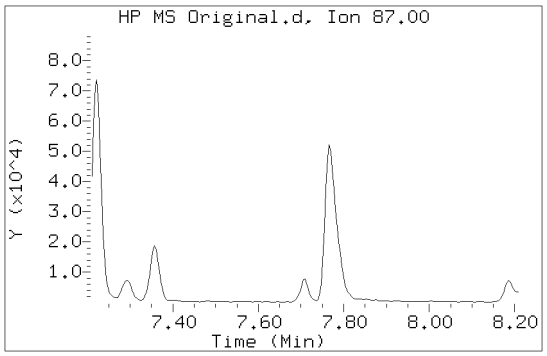
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060616.d
Inj Date : 06-JUN-2023 16:48
InstruID : VOA9.i
LabSampID : ICV

## n-Butyl acetate (123-86-4)

**BEFORE**
MASS
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AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

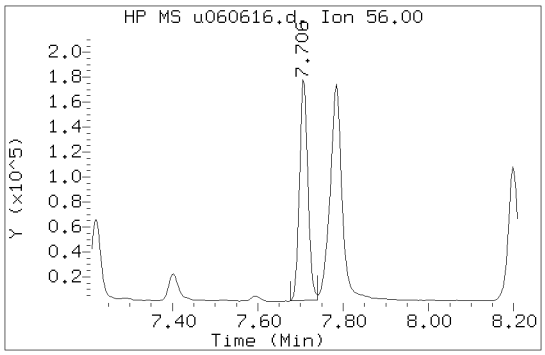



**BEFORE**
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HEIGHT
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08-Jun-2023
14:56
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pham

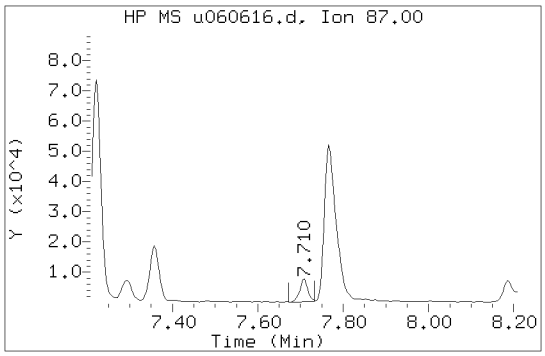



Reason Code:

**AFTER**
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21-Jun-2023
13:48
linh
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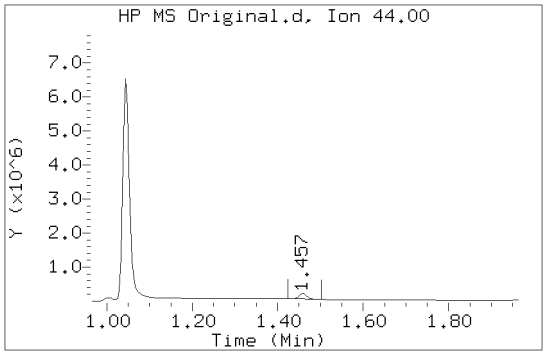



**AFTER**
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7486
21-Jun-2023
13:48
linh
pha

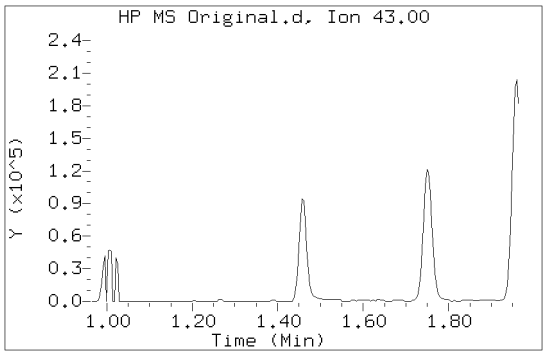



## Acetaldehyde (75-07-0)

**BEFORE**
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AREA
213458
HEIGHT
168169
08-Jun-2023
14:56
linh
pham

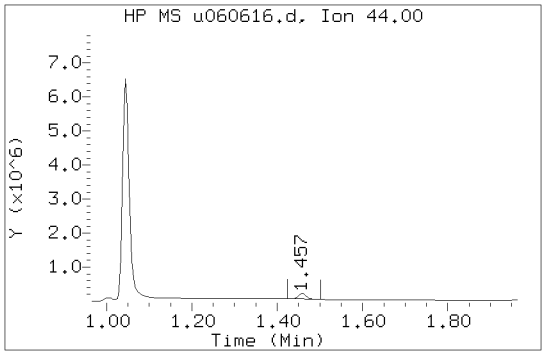



**BEFORE**
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08-Jun-2023
14:56
linh
pham

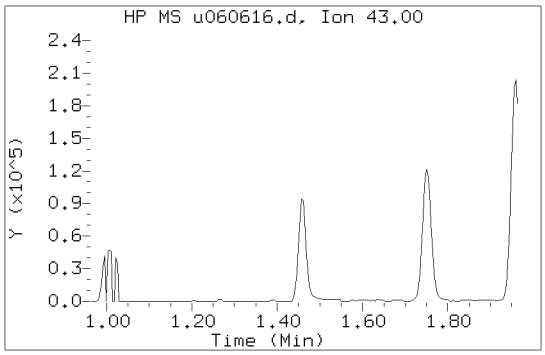



Reason Code:

**AFTER**
MASS
44
AREA
213458
HEIGHT
168169
21-Jun-2023
13:48
linh
pha




**AFTER**
MASS
43
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha



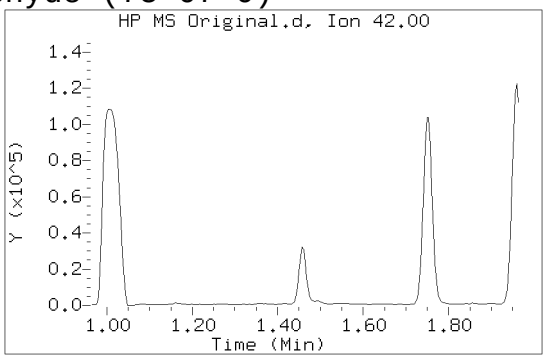
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060616.d
Inj Date : 06-JUN-2023 16:48
InstruID : VOA9.i
LabSampID : ICV

Acetaldehyde (75-07-0)

Reason Code:

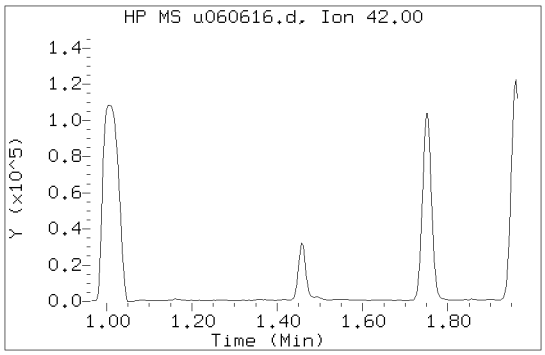
BEFORE

MASS
42
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0
HEIGHT
0
08-Jun-2023
14:56
linh
pham




AFTER

MASS
42
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha



01196595

right solutions.
right partner.

# Raw Data VOA9 439181

## Volatiles by EPA 8260

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/22/2023

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\voa9.i\U230617.b\U061701.D  Page 1
Report Date: 17-Jun-2023 12:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061701.D
Lab Smp Id: BFB  Client Smp ID: BFB
Inj Date  : 17-JUN-2023 11:18
Operator  : PC  Inst ID: VOA9.i
Smp Info  : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri  Quant Type: ISTD
Cal Date  : 30-MAR-2018 18:09  Cal File: U033003.d
Als bottle: 1  QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: all.sub
Target Version:  4.14  Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vf | 1.000 | Volumetric correction factor |
| Vi | 2.000 | Injection Volume |
| Cpnd Variable | | Local Compound Variable |

| | | | | | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/l) | | |
|---|---|---|---|---|---|---|---|---|
| RT | EXP RT | REL RT | MASS | RESPONSE | | | TARGET RANGE | RATIO |
| 1 bfb | | | | | | | CAS #: 460-00-4 | |
| 9.194 | 9.180 | ( 0.000) | 95 | 85344 | | | 0.00- 100.00 | 100.00 |
| 9.194 | 9.180 | ( 0.000) | 50 | 17832 | | | 15.00- 40.00 | 20.89 |
| 9.194 | 9.180 | ( 0.000) | 75 | 46280 | | | 30.00- 60.00 | 54.23 |
| 9.194 | 9.180 | ( 0.000) | 96 | 6385 | | | 5.00- 9.00 | 7.48 |
| 9.194 | 9.180 | ( 0.000) | 173 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 9.194 | 9.180 | ( 0.000) | 174 | 76944 | | | 50.00- 0.00 | 90.16 |
| 9.194 | 9.180 | ( 0.000) | 175 | 6761 | | | 5.00- 9.00 | 8.79 |
| 9.194 | 9.180 | ( 0.000) | 176 | 75264 | | | 95.00- 101.00 | 97.82 |
| 9.194 | 9.180 | ( 0.000) | 177 | 5107 | | | 5.00- 9.00 | 6.79 |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 20.89 |
| 75 | 30.00 - 60.00% of mass 95 | 54.23 |
| 96 | 5.00 - 9.00% of mass 95 | 7.48 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 90.16 |
| 175 | 5.00 - 9.00% of mass 174 | 7.92 ( 8.79) |
| 176 | 95.00 - 101.00% of mass 174 | 88.19 ( 97.82) |
| 177 | 5.00 - 9.00% of mass 176 | 5.98 ( 6.79) |

Data File: U061701.D
Spectrum: Scan 2293 ( 9.19)
Location of Maximum: 95.00
Number of points: 226

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 2956 | 93.00 | 4712 | 146.00 | 238 | 209.10 | 69 |
| 37.00 | 5740 | 94.00 | 11328 | 146.70 | 164 | 210.00 | 72 |
| 38.00 | 6030 | 95.00 | 85344 | 147.90 | 352 | 213.30 | 92 |
| 39.00 | 6066 | 96.00 | 6385 | 148.60 | 109 | 213.80 | 89 |
| 39.90 | 1580 | 96.80 | 430 | 149.50 | 106 | 214.30 | 53 |
| 41.00 | 5341 | 98.00 | 2021 | 149.90 | 190 | 215.20 | 59 |
| 42.00 | 5448 | 99.00 | 149 | 150.70 | 106 | 216.40 | 53 |
| 43.00 | 8786 | 100.00 | 111 | 151.40 | 157 | 219.60 | 101 |
| 44.00 | 3014 | 100.70 | 91 | 151.90 | 203 | 221.30 | 87 |
| 45.00 | 4942 | 101.40 | 77 | 152.70 | 211 | 222.00 | 92 |
| 45.90 | 494 | 102.00 | 177 | 154.00 | 144 | 222.50 | 53 |
| 46.90 | 1099 | 103.10 | 162 | 154.90 | 343 | 223.50 | 84 |
| 47.80 | 654 | 104.00 | 516 | 155.70 | 101 | 224.60 | 94 |
| 49.00 | 4625 | 105.30 | 343 | 156.80 | 272 | 227.30 | 68 |
| 50.00 | 17832 | 105.90 | 619 | 158.60 | 208 | 230.50 | 114 |
| 51.00 | 5994 | 106.80 | 423 | 159.90 | 116 | 231.60 | 61 |
| 52.00 | 603 | 107.90 | 133 | 160.90 | 256 | 232.00 | 70 |
| 52.90 | 642 | 108.90 | 361 | 162.10 | 68 | 233.80 | 138 |
| 54.00 | 628 | 110.00 | 189 | 163.60 | 69 | 235.10 | 69 |
| 55.10 | 5181 | 110.90 | 171 | 164.30 | 77 | 235.70 | 94 |
| 55.90 | 2462 | 111.90 | 153 | 166.50 | 52 | 240.30 | 58 |
| 57.00 | 3518 | 113.00 | 240 | 166.90 | 122 | 241.10 | 70 |
| 57.90 | 2782 | 113.90 | 84 | 167.90 | 195 | 242.60 | 77 |
| 59.00 | 10893 | 114.40 | 116 | 168.80 | 178 | 244.90 | 68 |
| 60.00 | 1444 | 115.00 | 235 | 169.70 | 147 | 248.10 | 56 |
| 61.00 | 4977 | 115.80 | 449 | 170.90 | 1782 | 249.50 | 55 |
| 62.00 | 4573 | 116.90 | 648 | 171.90 | 638 | 250.60 | 97 |
| 63.00 | 3955 | 117.80 | 469 | 173.90 | 76944 | 254.40 | 104 |
| 64.00 | 505 | 118.80 | 575 | 175.00 | 6761 | 255.50 | 66 |
| 65.00 | 457 | 119.90 | 247 | 175.90 | 75264 | 256.90 | 92 |
| 67.10 | 689 | 120.90 | 110 | 176.90 | 5107 | 258.30 | 106 |
| 68.00 | 10207 | 121.70 | 71 | 177.90 | 174 | 262.00 | 54 |
| 69.00 | 11087 | 122.90 | 110 | 181.20 | 109 | 267.10 | 69 |
| 70.00 | 2185 | 123.60 | 267 | 182.60 | 56 | 268.70 | 111 |
| 71.00 | 420 | 124.70 | 200 | 183.10 | 58 | 276.30 | 57 |
| 71.90 | 750 | 125.90 | 201 | 183.90 | 135 | 276.80 | 88 |
| 73.00 | 4414 | 126.90 | 3024 | 185.00 | 345 | 278.20 | 55 |
| 74.00 | 16379 | 127.80 | 1150 | 185.90 | 2284 | 282.80 | 59 |
| 75.00 | 46280 | 128.90 | 268 | 187.00 | 193 | 285.20 | 65 |
| 76.00 | 4237 | 129.90 | 382 | 188.30 | 65 | 286.00 | 82 |
| 76.90 | 740 | 130.80 | 207 | 188.90 | 72 | 288.10 | 51 |
| 78.00 | 529 | 132.00 | 165 | 189.50 | 107 | 296.10 | 99 |
| 78.90 | 3358 | 132.70 | 58 | 190.40 | 65 | 296.60 | 55 |
| 79.90 | 1580 | 133.30 | 100 | 193.20 | 92 | 297.90 | 66 |
| 80.80 | 3809 | 133.90 | 132 | 194.00 | 65 | 302.00 | 54 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 81.90 | 1012 | 134.80 | 323 | 195.50 | 53 | 305.70 | 87 |
| 82.90 | 640 | 135.50 | 88 | 196.30 | 60 | 308.30 | 53 |
| 84.20 | 118 | 136.00 | 130 | 198.60 | 54 | 316.60 | 110 |
| 84.90 | 251 | 136.70 | 285 | 200.40 | 64 | 326.30 | 54 |
| 86.00 | 333 | 138.00 | 51 | 201.30 | 57 | 327.80 | 61 |
| 86.90 | 3884 | 138.60 | 261 | 202.80 | 71 | 329.60 | 59 |
| 88.00 | 3004 | 139.20 | 183 | 203.80 | 118 | 331.60 | 74 |
| 88.70 | 308 | 140.80 | 1906 | 205.40 | 79 | 341.00 | 77 |
| 89.40 | 97 | 141.90 | 2636 | 206.30 | 61 | 341.90 | 69 |
| 90.00 | 118 | 142.80 | 1069 | 206.70 | 58 | 345.50 | 52 |
| 91.00 | 704 | 143.70 | 222 | 207.10 | 65 | | |
| 92.00 | 3098 | 145.00 | 193 | 208.00 | 88 | | |

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061701.D Page 1

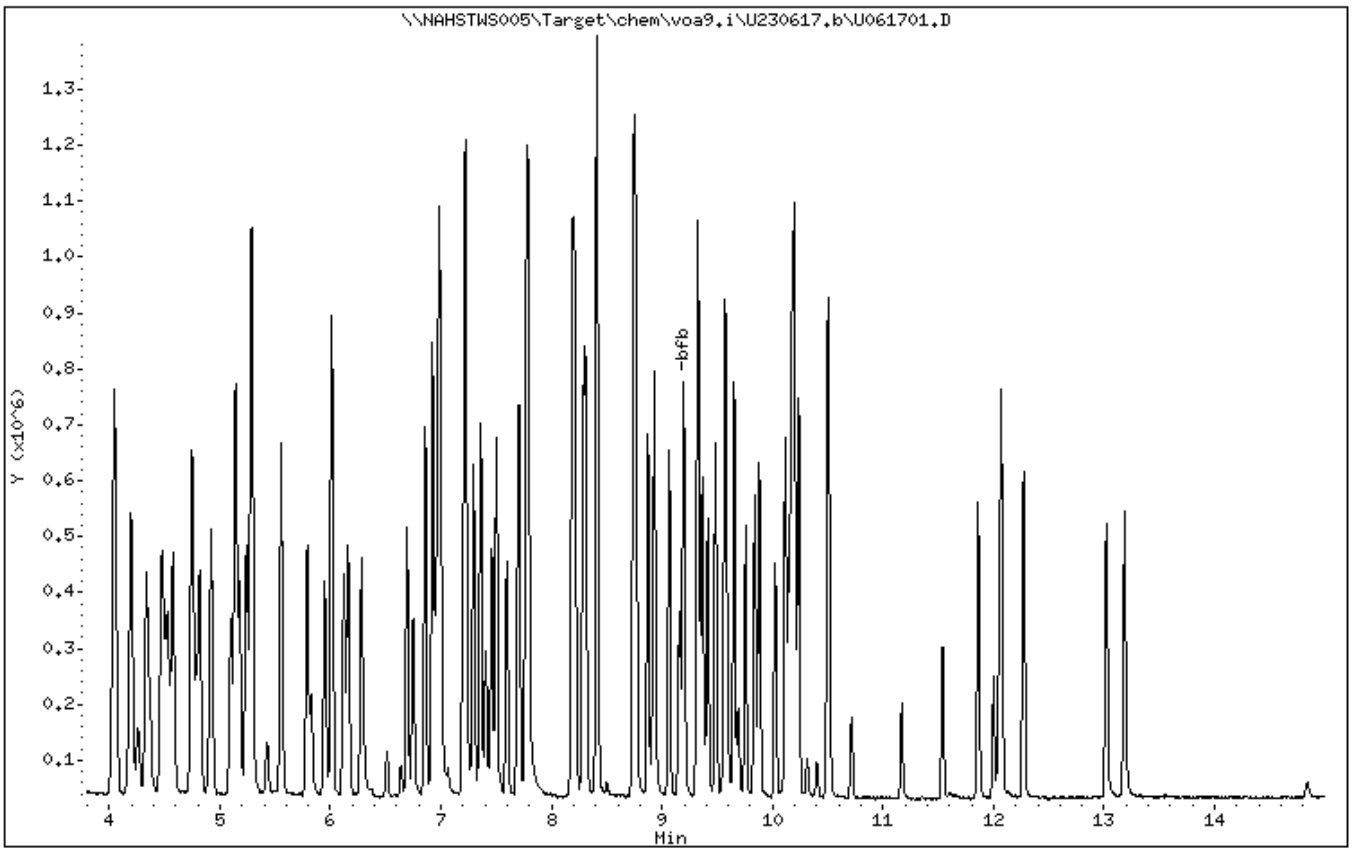
Date : 17-JUN-2023 11:18

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061701.D Page 2

Date : 17-JUN-2023 11:18

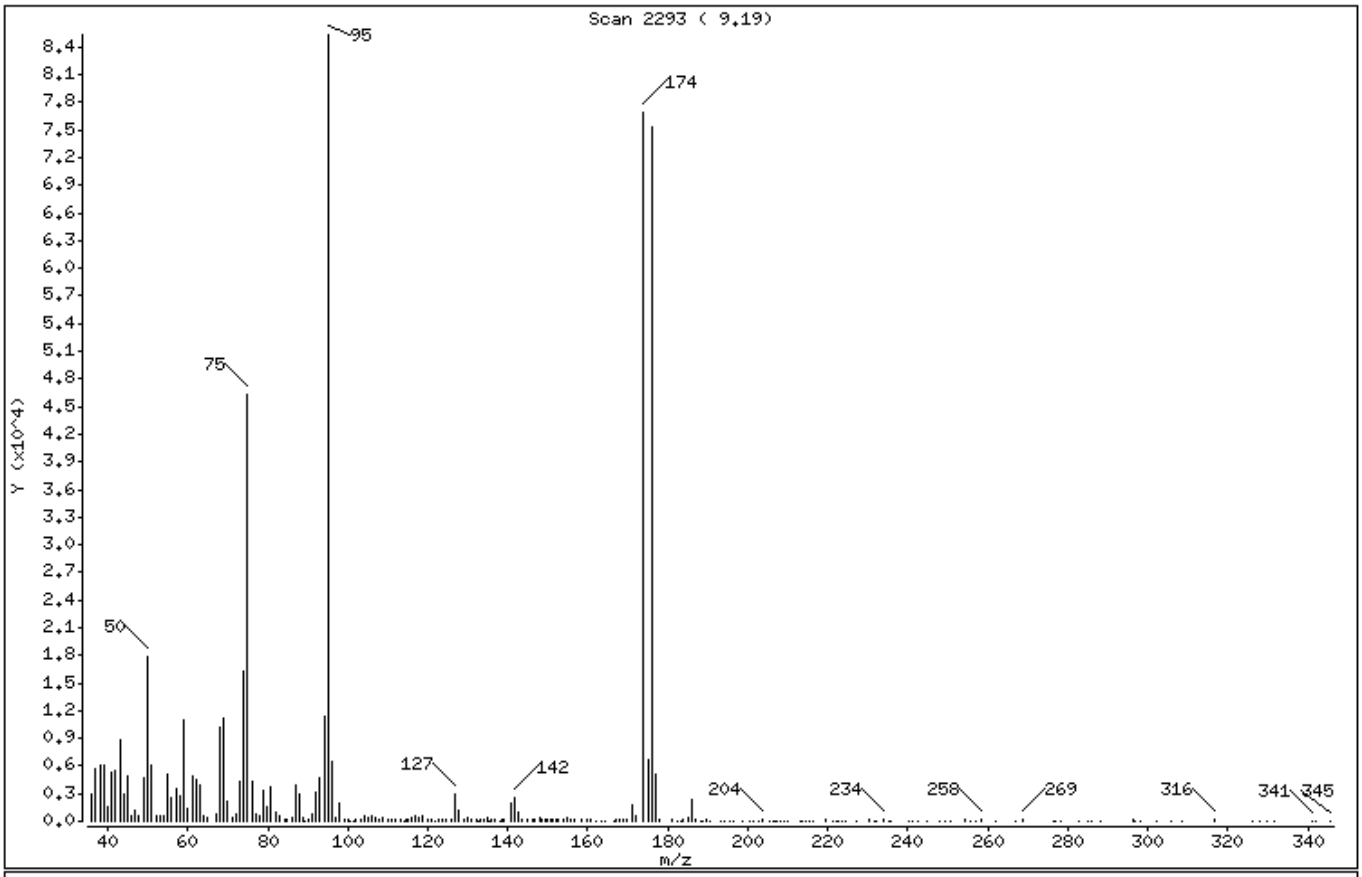
Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

1 bfb




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 20.89 |
| 75 | 30.00 - 60.00% of mass 95 | 54.23 |
| 96 | 5.00 - 9.00% of mass 95 | 7.48 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 90.16 |
| 175 | 5.00 - 9.00% of mass 174 | 7.92 ( 8.79) |
| 176 | 95.00 - 101.00% of mass 174 | 88.19 ( 97.82) |
| 177 | 5.00 - 9.00% of mass 176 | 5.98 ( 6.79) |

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061701.D Page 3

Date : 17-JUN-2023 11:18

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: U061701.D
Spectrum: Scan 2293 ( 9.19)
Location of Maximum: 95.00
Number of points: 226

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 2956 | 93.00 | 4712 | 146.00 | 238 | 209.10 | 69 |
| 37.00 | 5740 | 94.00 | 11328 | 146.70 | 164 | 210.00 | 72 |
| 38.00 | 6030 | 95.00 | 85344 | 147.90 | 352 | 213.30 | 92 |
| 39.00 | 6066 | 96.00 | 6385 | 148.60 | 109 | 213.80 | 89 |
| 39.90 | 1580 | 96.80 | 430 | 149.50 | 106 | 214.30 | 53 |
| 41.00 | 5341 | 98.00 | 2021 | 149.90 | 190 | 215.20 | 59 |
| 42.00 | 5448 | 99.00 | 149 | 150.70 | 106 | 216.40 | 53 |
| 43.00 | 8786 | 100.00 | 111 | 151.40 | 157 | 219.60 | 101 |
| 44.00 | 3014 | 100.70 | 91 | 151.90 | 203 | 221.30 | 87 |
| 45.00 | 4942 | 101.40 | 77 | 152.70 | 211 | 222.00 | 92 |
| 45.90 | 494 | 102.00 | 177 | 154.00 | 144 | 222.50 | 53 |
| 46.90 | 1099 | 103.10 | 162 | 154.90 | 343 | 223.50 | 84 |
| 47.80 | 654 | 104.00 | 516 | 155.70 | 101 | 224.60 | 94 |
| 49.00 | 4625 | 105.30 | 343 | 156.80 | 272 | 227.30 | 68 |
| 50.00 | 17832 | 105.90 | 619 | 158.60 | 208 | 230.50 | 114 |
| 51.00 | 5994 | 106.80 | 423 | 159.90 | 116 | 231.60 | 61 |
| 52.00 | 603 | 107.90 | 133 | 160.90 | 256 | 232.00 | 70 |
| 52.90 | 642 | 108.90 | 361 | 162.10 | 68 | 233.80 | 138 |
| 54.00 | 628 | 110.00 | 189 | 163.60 | 69 | 235.10 | 69 |
| 55.10 | 5181 | 110.90 | 171 | 164.30 | 77 | 235.70 | 94 |
| 55.90 | 2462 | 111.90 | 153 | 166.50 | 52 | 240.30 | 58 |
| 57.00 | 3518 | 113.00 | 240 | 166.90 | 122 | 241.10 | 70 |
| 57.90 | 2782 | 113.90 | 84 | 167.90 | 195 | 242.60 | 77 |
| 59.00 | 10893 | 114.40 | 116 | 168.80 | 178 | 244.90 | 68 |
| 60.00 | 1444 | 115.00 | 235 | 169.70 | 147 | 248.10 | 56 |
| 61.00 | 4977 | 115.80 | 449 | 170.90 | 1782 | 249.50 | 55 |
| 62.00 | 4573 | 116.90 | 648 | 171.90 | 638 | 250.60 | 97 |
| 63.00 | 3955 | 117.80 | 469 | 173.90 | 76944 | 254.40 | 104 |
| 64.00 | 505 | 118.80 | 575 | 175.00 | 6761 | 255.50 | 66 |
| 65.00 | 457 | 119.90 | 247 | 175.90 | 75264 | 256.90 | 92 |
| 67.10 | 689 | 120.90 | 110 | 176.90 | 5107 | 258.30 | 106 |
| 68.00 | 10207 | 121.70 | 71 | 177.90 | 174 | 262.00 | 54 |
| 69.00 | 11087 | 122.90 | 110 | 181.20 | 109 | 267.10 | 69 |
| 70.00 | 2185 | 123.60 | 267 | 182.60 | 56 | 268.70 | 111 |
| 71.00 | 420 | 124.70 | 200 | 183.10 | 58 | 276.30 | 57 |

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061701.D Page 4

Date : 17-JUN-2023 11:18

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: U061701.D
Spectrum: Scan 2293 ( 9.19)
Location of Maximum: 95.00
Number of points: 226

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 71.90 | 750 | 125.90 | 201 | 183.90 | 135 | 276.80 | 88 |
| 73.00 | 4414 | 126.90 | 3024 | 185.00 | 345 | 278.20 | 55 |
| 74.00 | 16379 | 127.80 | 1150 | 185.90 | 2284 | 282.80 | 59 |
| 75.00 | 46280 | 128.90 | 268 | 187.00 | 193 | 285.20 | 65 |
| 76.00 | 4237 | 129.90 | 382 | 188.30 | 65 | 286.00 | 82 |
| 76.90 | 740 | 130.80 | 207 | 188.90 | 72 | 288.10 | 51 |
| 78.00 | 529 | 132.00 | 165 | 189.50 | 107 | 296.10 | 99 |
| 78.90 | 3358 | 132.70 | 58 | 190.40 | 65 | 296.60 | 55 |
| 79.90 | 1580 | 133.30 | 100 | 193.20 | 92 | 297.90 | 66 |
| 80.80 | 3809 | 133.90 | 132 | 194.00 | 65 | 302.00 | 54 |
| 81.90 | 1012 | 134.80 | 323 | 195.50 | 53 | 305.70 | 87 |
| 82.90 | 640 | 135.50 | 88 | 196.30 | 60 | 308.30 | 53 |
| 84.20 | 118 | 136.00 | 130 | 198.60 | 54 | 316.60 | 110 |
| 84.90 | 251 | 136.70 | 285 | 200.40 | 64 | 326.30 | 54 |
| 86.00 | 333 | 138.00 | 51 | 201.30 | 57 | 327.80 | 61 |
| 86.90 | 3884 | 138.60 | 261 | 202.80 | 71 | 329.60 | 59 |
| 88.00 | 3004 | 139.20 | 183 | 203.80 | 118 | 331.60 | 74 |
| 88.70 | 308 | 140.80 | 1906 | 205.40 | 79 | 341.00 | 77 |
| 89.40 | 97 | 141.90 | 2636 | 206.30 | 61 | 341.90 | 69 |
| 90.00 | 118 | 142.80 | 1069 | 206.70 | 58 | 345.50 | 52 |
| 91.00 | 704 | 143.70 | 222 | 207.10 | 65 | | |
| 92.00 | 3098 | 145.00 | 193 | 208.00 | 88 | | |

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061703.D Page 1
Report Date: 20-Jun-2023 15:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061703.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 17-JUN-2023 12:05
Operator : PC Inst ID: VOA9.i
Smp Info : CCV;CCV;2;;;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\8260C.m
Meth Date : 20-Jun-2023 15:42 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.819 | 4.819 | (1.000) | 521018 | 50.0000 | |
| 2 | Dichlorodifluoromethane | 85 | 1.168 | 1.168 | (0.242) | 244366 | 50.0000 | 50.76 |
| 3 | Chloromethane | 50 | 1.303 | 1.303 | (0.270) | 332835 | 50.0000 | 42.14 |
| 5 | Vinyl Chloride | 62 | 1.381 | 1.381 | (0.287) | 269059 | 50.0000 | 48.82 |
| 6 | Bromomethane | 94 | 1.625 | 1.625 | (0.337) | 164068 | 50.0000 | 58.18 |
| 7 | Chloroethane | 64 | 1.704 | 1.704 | (0.354) | 181246 | 50.0000 | 48.82 |
| 8 | Trichlorofluoromethane | 101 | 1.902 | 1.902 | (0.395) | 376138 | 50.0000 | 59.42 |
| 9 | Acrolein | 56 | 2.270 | 2.270 | (0.471) | 24279 | 100.000 | 87.79 |
| 10 | Acetone | 43 | 2.412 | 2.412 | (0.501) | 198914 | 100.000 | 111.79 |
| 11 | 1,1-Dichloroethene | 96 | 2.337 | 2.337 | (0.485) | 201583 | 50.0000 | 50.97 |
| 15 | Iodomethane | 142 | 2.476 | 2.476 | (0.514) | 338536 | 100.000 | 107.37 |
| 16 | Acrylonitrile | 53 | 3.068 | 3.068 | (0.637) | 195107 | 100.000 | 100.97 |
| 17 | Methylene Chloride | 84 | 2.798 | 2.798 | (0.581) | 253042 | 50.0000 | 53.32 |
| 18 | Methyl tert-butyl ether | 73 | 3.083 | 3.083 | (0.640) | 627270 | 50.0000 | 51.72 |
| 19 | Carbon Disulfide | 76 | 2.528 | 2.528 | (0.525) | 1118984 | 100.000 | 105.83 |
| 20 | trans-1,2-Dichloroethene | 96 | 3.065 | 3.065 | (0.636) | 219517 | 50.0000 | 51.03 |
| 21 | Vinyl Acetate | 43 | 3.612 | 3.612 | (0.750) | 1391745 | 100.000 | 106.15 |
| 22 | 1,1-Dichloroethane | 63 | 3.518 | 3.518 | (0.730) | 391855 | 50.0000 | 47.94 |
| 24 | 2-Butanone | 43 | 4.268 | 4.268 | (0.886) | 217862 | 100.000 | 91.71 |
| 26 | 2,2-Dichloropropane | 77 | 4.185 | 4.185 | (0.869) | 304079 | 50.0000 | 56.21 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 27 cis-1,2-Dichloroethene | 96 | 4.200 | 4.200 (0.872) | 251128 | 50.0000 | 48.80 |
| 28 Chloroform | 83 | 4.575 | 4.575 (0.949) | 419161 | 50.0000 | 49.27 |

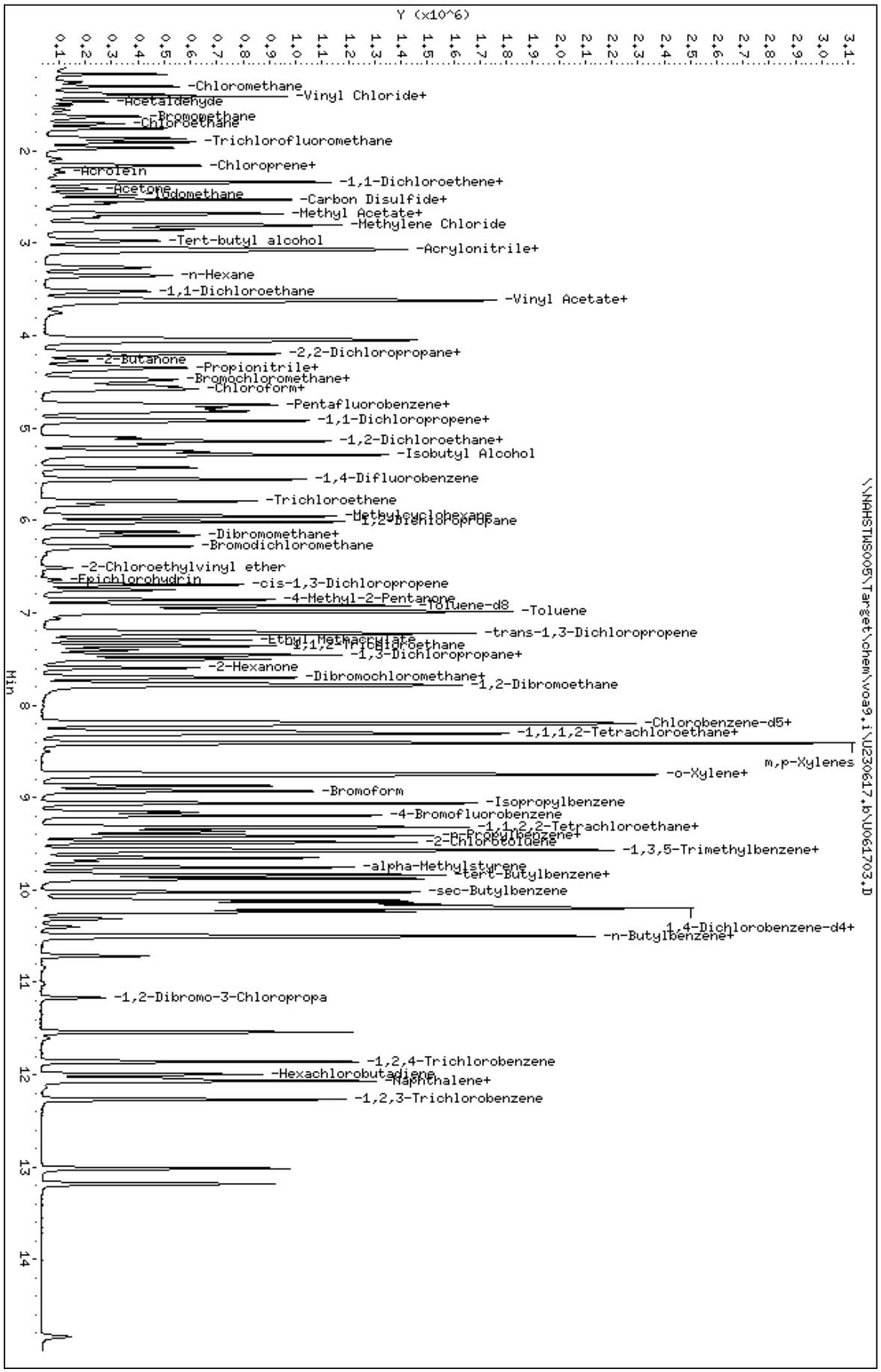
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 29 Bromochloromethane | 128 | 4.474 | 4.474 | (0.928) | 135614 | 50.0000 | 47.11 |
| $ | 30 Dibromofluoromethane | 113 | 4.751 | 4.751 | (0.986) | 217758 | 50.0000 | 49.79 |
| | 31 1,1,1-Trichloroethane | 97 | 4.744 | 4.744 | (0.984) | 342283 | 50.0000 | 52.79 |
| | 32 1,1-Dichloropropene | 75 | 4.924 | 4.924 | (0.886) | 284869 | 50.0000 | 51.40 |
| | 33 1,2-Dichloroethane | 62 | 5.179 | 5.179 | (0.932) | 353280 | 50.0000 | 53.98 |
| | 34 Carbon Tetrachloride | 117 | 4.913 | 4.913 | (0.884) | 282955 | 50.0000 | 55.58 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.058) | 251876 | 50.0000 | 53.27 |
| * | 36 1,4-Difluorobenzene | 114 | 5.557 | 5.557 | (1.000) | 756149 | 50.0000 | |
| | 37 Benzene | 78 | 5.141 | 5.141 | (0.925) | 886055 | 50.0000 | 48.62 |
| | 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.042) | 252792 | 50.0000 | 47.86 |
| | 39 Bromodichloromethane | 83 | 6.281 | 6.281 | (1.130) | 309499 | 50.0000 | 54.45 |
| | 41 2-Chloroethylvinyl ether | 63 | 6.577 | 6.577 | (1.183) | 6157 | 100.000 | 44.78 |
| | 42 1,2-Dichloropropane | 63 | 6.011 | 6.011 | (1.082) | 235968 | 50.0000 | 48.50 |
| | 44 Dibromomethane | 93 | 6.123 | 6.123 | (1.102) | 159724 | 50.0000 | 51.38 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.858 | 6.858 | (0.838) | 513242 | 100.000 | 98.16 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.693 | 6.693 | (1.204) | 356373 | 50.0000 | 46.92 |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 718007 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.926 | 6.926 | (0.846) | 810789 | 50.0000 | 49.89 |
| | 50 Toluene | 91 | 6.982 | 6.982 | (0.853) | 993557 | 50.0000 | 51.01 |
| | 51 trans-1,3-Dichloropropene | 75 | 7.199 | 7.199 | (1.295) | 306108 | 50.0000 | 47.97 |
| | 52 2-Hexanone | 43 | 7.593 | 7.593 | (0.928) | 341109 | 100.000 | 93.67 |
| | 53 1,1,2-Trichloroethane | 83 | 7.357 | 7.357 | (0.899) | 197144 | 50.0000 | 48.65 |
| | 54 1,3-Dichloropropane | 76 | 7.499 | 7.499 | (0.916) | 413192 | 50.0000 | 49.91 |
| | 55 Dibromochloromethane | 129 | 7.694 | 7.694 | (0.940) | 276989 | 50.0000 | 57.61 |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 237075 | 50.0000 | 49.96 |
| | 57 1,2-Dibromoethane | 107 | 7.788 | 7.788 | (0.951) | 249018 | 50.0000 | 49.81 |
| | 58 1-Chlorohexane | 55 | 8.196 | 8.196 | (1.475) | 193642 | 50.0000 | 49.87 |
| | 59 Chlorobenzene | 112 | 8.211 | 8.211 | (1.003) | 684539 | 50.0000 | 49.25 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 8.286 | 8.286 | (1.012) | 256665 | 50.0000 | 53.72 |
| | 61 Ethylbenzene | 106 | 8.309 | 8.309 | (1.015) | 330083 | 50.0000 | 51.02 |
| | 62 m,p-Xylenes | 106 | 8.410 | 8.410 | (1.027) | 808964 | 100.000 | 105.69 |
| | 63 o-Xylene | 106 | 8.748 | 8.748 | (1.069) | 393040 | 50.0000 | 51.98 |
| | 64 Styrene | 104 | 8.763 | 8.763 | (1.071) | 667776 | 50.0000 | 55.65 |
| | 66 Bromoform | 173 | 8.920 | 8.920 | (1.090) | 182205 | 50.0000 | 56.14 |
| | 67 Isopropylbenzene | 105 | 9.062 | 9.062 | (1.107) | 983510 | 50.0000 | 54.15 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 9.329 | 9.329 | (0.917) | 331282 | 50.0000 | 44.86 |
| $ | 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 343281 | 50.0000 | 53.67 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 392541 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 9.362 | 9.362 | (0.920) | 298987 | 50.0000 | 46.02 |
| | 73 n-Propylbenzene | 91 | 9.411 | 9.411 | (0.925) | 1065092 | 50.0000 | 51.72 |
| | 74 Bromobenzene | 156 | 9.317 | 9.317 | (0.916) | 309113 | 50.0000 | 46.67 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.565 | 9.565 | (0.940) | 704273 | 50.0000 | 49.85 |
| | 76 2-Chlorotoluene | 91 | 9.482 | 9.482 | (0.932) | 708670 | 50.0000 | 48.96 |
| | 77 4-Chlorotoluene | 91 | 9.576 | 9.576 | (0.941) | 817042 | 50.0000 | 50.99 |
| | 78 tert-Butylbenzene | 119 | 9.838 | 9.838 | (0.967) | 689392 | 50.0000 | 49.69 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.880 | 9.880 | (0.971) | 723509 | 50.0000 | 48.95 |
| | 81 sec-Butylbenzene | 105 | 10.022 | 10.022 | (0.985) | 890965 | 50.0000 | 50.63 |
| | 82 p-Isopropyltoluene | 119 | 10.146 | 10.146 | (0.997) | 757424 | 50.0000 | 51.38 |
| | 83 1,3-Dichlorobenzene | 146 | 10.116 | 10.116 | (0.994) | 533716 | 50.0000 | 47.44 |
| | 84 1,4-Dichlorobenzene | 146 | 10.191 | 10.191 | (1.002) | 561282 | 50.0000 | 46.79 |
| | 87 n-Butylbenzene | 91 | 10.494 | 10.494 | (1.032) | 640640 | 50.0000 | 50.76 |
| | 88 1,2-Dichlorobenzene | 146 | 10.506 | 10.506 | (1.033) | 536301 | 50.0000 | 47.54 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 89 | 1,2-Dibromo-3-Chloropropane | 155 | 11.169 | 11.169 (1.098) | 50052 | 50.0000 | 46.45 |
| 90 | 1,2,4-Trichlorobenzene | 180 | 11.859 | 11.859 (1.166) | 363017 | 50.0000 | 46.79 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 91 | Hexachlorobutadiene | 225 | 11.998 | 11.998 | (1.179) | 153286 | 50.0000 | 48.92 |
| 92 | Naphthalene | 128 | 12.065 | 12.065 | (1.186) | 889321 | 50.0000 | 49.35 |
| 93 | 1,2,3-Trichlorobenzene | 180 | 12.271 | 12.271 | (1.206) | 347267 | 50.0000 | 45.78 |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 470645 | 100.000 | (a) |
| 135 | 1,4-Dioxane | 88 | 6.172 | 6.172 | (1.281) | 59510 | 1000.00 | 575.22 |
| 141 | Cyclohexane | 56 | 4.785 | 4.785 | (0.993) | 293048 | 50.0000 | 45.86 |
| 138 | Freon TF | 101 | 2.341 | 2.341 | (0.486) | 193620 | 50.0000 | 55.33 |
| 140 | 1,3-Butadiene | 54 | 1.408 | 1.408 | (0.292) | 242060 | 50.0000 | 49.05 |
| 147 | Methylcyclohexane | 55 | 5.951 | 5.951 | (1.071) | 542164 | 50.0000 | 51.68 |
| 146 | Methyl Acetate | 43 | 2.720 | 2.720 | (0.564) | 210270 | 50.0000 | 47.93 |
| 148 | Tert-Butyl alcohol | 59 | 2.971 | 2.971 | (0.617) | 481347 | 1000.00 | 999.89 |
| 149 | Isopropyl Alcohol | 45 | 2.566 | 2.566 | (0.533) | 310134 | 1000.00 | 910.53 |
| 72 | trans-1,4-Dichloro-2-butene | 53 | 9.377 | 9.377 | (1.146) | 44725 | 50.0000 | 54.09 |
| 12 | Isobutyl Alcohol | 43 | 5.291 | 5.291 | (1.098) | 773694 | 1000.00 | 1142.91 |
| 13 | Acetonitrile | 39 | 2.678 | 2.678 | (0.556) | 324162 | 500.000 | 574.66 |
| 166 | 1,2,3-Trimethylbenzene | 105 | 10.236 | 10.236 | (1.006) | 725346 | 50.0000 | 48.07 |
| 156 | Diisopropyl ether | 45 | 3.627 | 3.627 | (0.753) | 734778 | 50.0000 | 50.57 |
| 162 | Butyl acrylate | 55 | 8.736 | 8.736 | (1.067) | 419224 | 50.0000 | 49.36 |
| 203 | 2-Ethylhexyl Acrylate | 55 | 12.043 | 12.043 | (1.184) | 191482 | 50.0000 | 50.77 |

## QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).




Data File: \\NAHSTMS005\Target\chem\voa9.i\U230617.b\U061703.D
Date : 17-JUN-2023 12:05
Client ID: CCV
Sample Info: CCV,CCV,2,,,
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061703.D
Inj Date  : 17-JUN-2023 12:05
InstruID  : VOA9.i
LabSampID : CCV

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061704.D  Page 1
Report Date: 20-Jun-2023 15:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061704.D
Lab Smp Id: CCB  Client Smp ID: CCB
Inj Date  : 17-JUN-2023 12:28
Operator  : PC  Inst ID: VOA9.i
Smp Info  : CCB;CCB;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\8260C.m
Meth Date : 20-Jun-2023 15:42 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.815 | 4.819 | (1.000) | 552285 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.748 | 4.751 | (0.986) | 236066 | 50.9296 | 50.92 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.059) | 276484 | 55.1895 | 55.18 |
| * 36 1,4-Difluorobenzene | 114 | 5.554 | 5.557 | (1.000) | 753831 | 50.0000 | |
| * 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 684446 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.922 | 6.926 | (0.846) | 843228 | 54.4335 | 54.43 |
| $ 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 294044 | 48.1432 | 48.14 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 341138 | 50.0000 | |

01196612

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061704.D



Date : 17-JUN-2023 12:28

Client ID: CCB

Instrument: VOA9.i

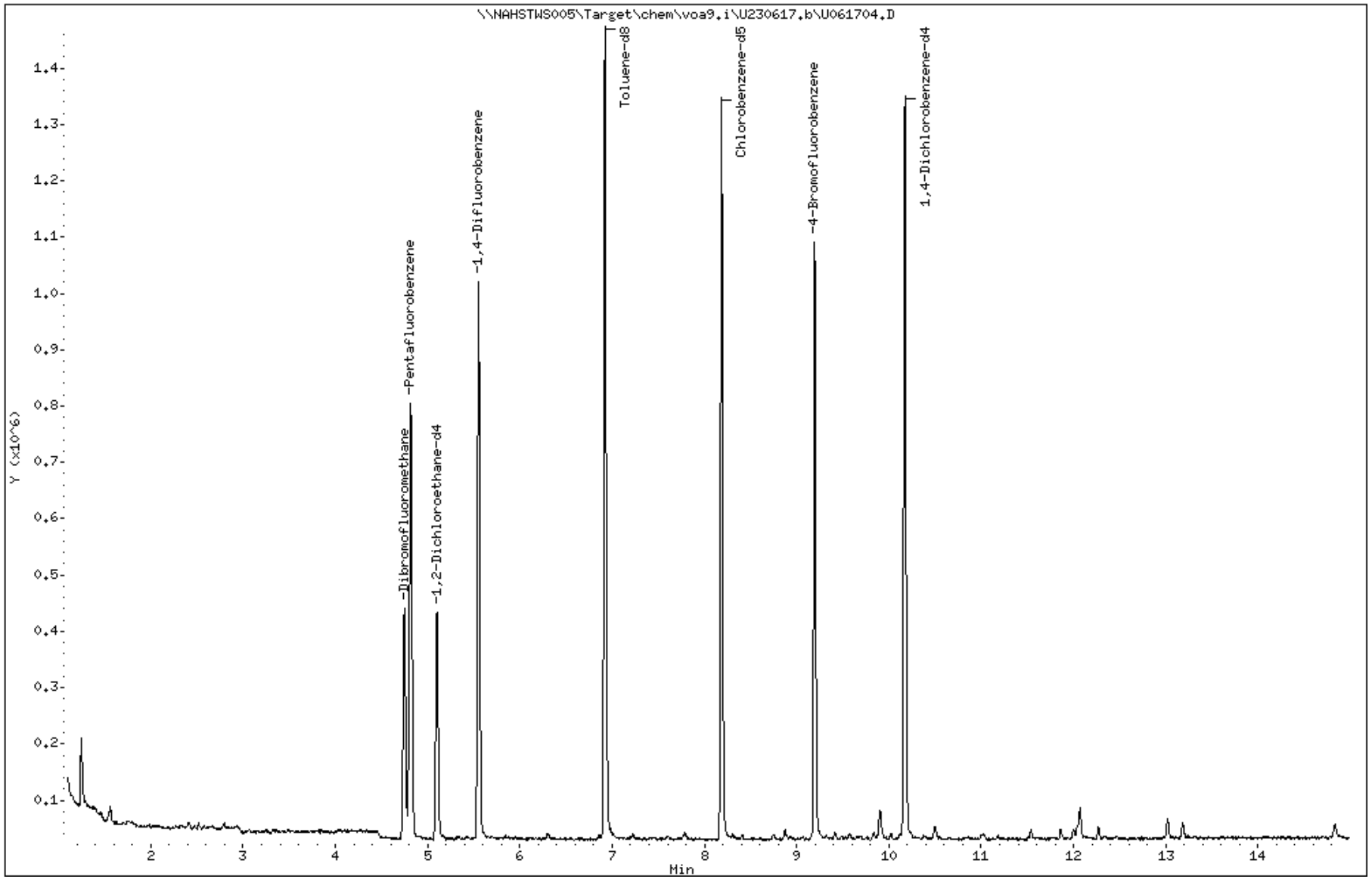
Sample Info: CCB;CCB;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061704.D
Inj Date  : 17-JUN-2023 12:28
InstruID  : VOA9.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061705.D Page 1
Report Date: 20-Jun-2023 15:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061705.D
Lab Smp Id: VLCSW-230617 Client Smp ID: VLCSW-230617
Inj Date : 17-JUN-2023 12:50
Operator : PC Inst ID: VOA9.i
Smp Info : VLCSW-230617;VLCSW-230617;3;;LCS
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\8260C.m
Meth Date : 20-Jun-2023 15:42 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.819 | 4.819 | (1.000) | 481638 | 50.0000 | |
| 2 | Dichlorodifluoromethane | 85 | 1.168 | 1.168 | (0.242) | 90283 | 20.3355 | 20.33 |
| 3 | Chloromethane | 50 | 1.299 | 1.303 | (0.270) | 137480 | 18.0874 | 18.08 |
| 5 | Vinyl Chloride | 62 | 1.381 | 1.381 | (0.287) | 98502 | 19.3349 | 19.33 |
| 6 | Bromomethane | 94 | 1.625 | 1.625 | (0.337) | 69005 | 25.4718 | 25.47 |
| 7 | Chloroethane | 64 | 1.704 | 1.704 | (0.354) | 69559 | 20.2689 | 20.26 |
| 8 | Trichlorofluoromethane | 101 | 1.899 | 1.902 | (0.394) | 143689 | 24.5575 | 24.55 |
| 9 | Acrolein | 56 | 2.270 | 2.270 | (0.471) | 8919 | 34.8882 | 34.88 |
| 10 | Acetone | 43 | 2.412 | 2.412 | (0.501) | 74790 | 42.0870 | 42.08 |
| 11 | 1,1-Dichloroethene | 96 | 2.337 | 2.337 | (0.485) | 74050 | 20.2548 | 20.25 |
| 15 | Iodomethane | 142 | 2.472 | 2.476 | (0.513) | 109771 | 45.3128 | 45.31 |
| 16 | Acrylonitrile | 53 | 3.072 | 3.068 | (0.638) | 76188 | 42.6550 | 42.65 |
| 17 | Methylene Chloride | 84 | 2.798 | 2.798 | (0.581) | 97084 | 21.5298 | 21.52 |
| 18 | Methyl tert-butyl ether | 73 | 3.083 | 3.083 | (0.640) | 253065 | 22.5728 | 22.57 |
| 19 | Carbon Disulfide | 76 | 2.525 | 2.528 | (0.524) | 463399 | 47.4137 | 47.41 |
| 20 | trans-1,2-Dichloroethene | 96 | 3.061 | 3.065 | (0.635) | 82373 | 20.7181 | 20.71 |
| 21 | Vinyl Acetate | 43 | 3.612 | 3.612 | (0.750) | 526787 | 43.4651 | 43.46 |
| 22 | 1,1-Dichloroethane | 63 | 3.518 | 3.518 | (0.730) | 149290 | 19.7582 | 19.75 |
| 24 | 2-Butanone | 43 | 4.272 | 4.268 | (0.886) | 81625 | 37.1708 | 37.17 |
| 26 | 2,2-Dichloropropane | 77 | 4.185 | 4.185 | (0.869) | 114875 | 23.2103 | 23.21 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 27 | cis-1,2-Dichloroethene | 96 | 4.200 | 4.200 (0.872) | 96588 | 20.3065 | 20.30 |
| 28 | Chloroform | 83 | 4.575 | 4.575 (0.949) | 161098 | 20.4854 | 20.48 |

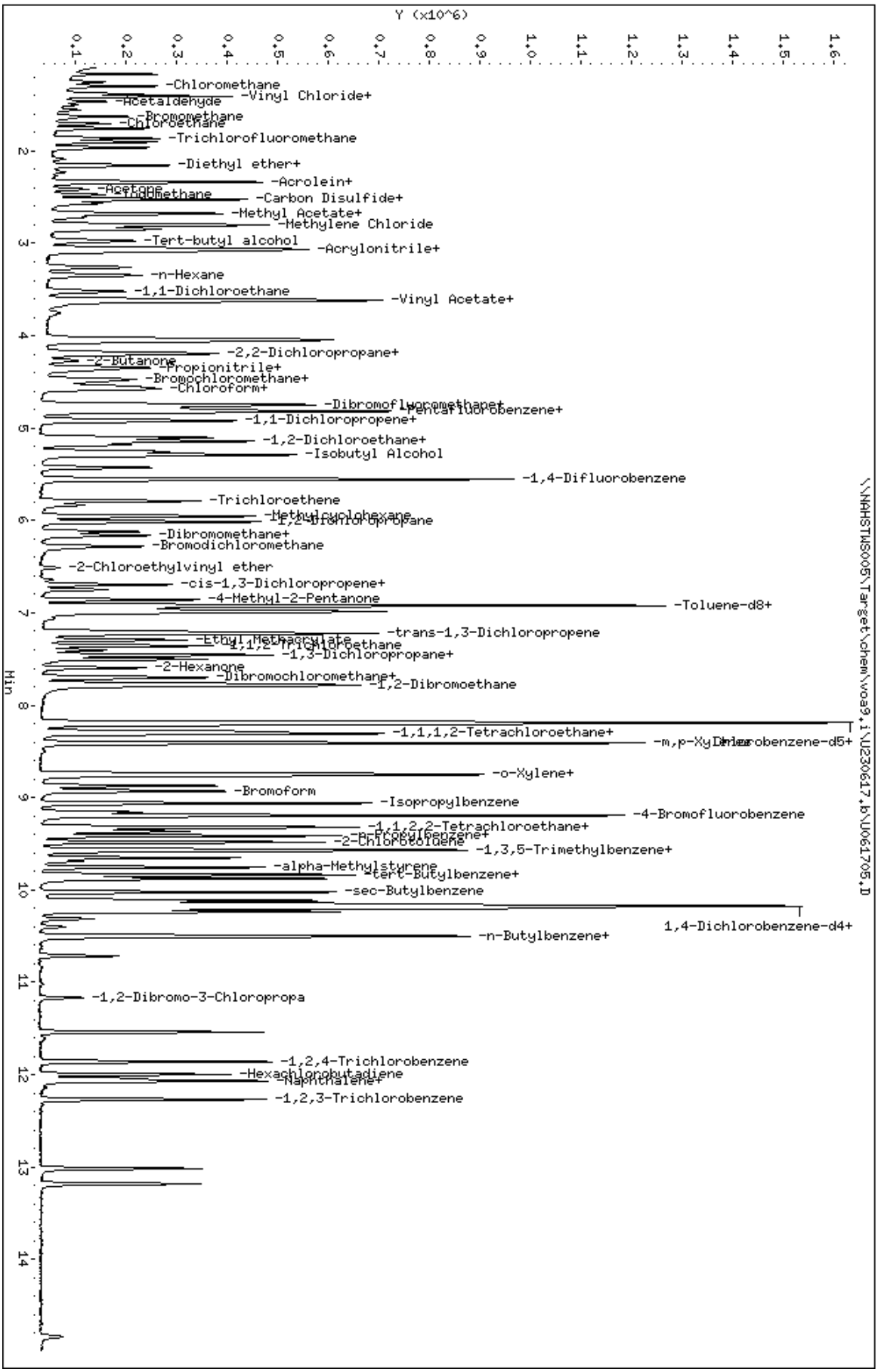
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 29 Bromochloromethane | 128 | 4.470 | 4.474 | (0.928) | 49703 | 18.6808 | 18.68 |
| $ | 30 Dibromofluoromethane | 113 | 4.751 | 4.751 | (0.986) | 196844 | 48.6831 | 48.68 |
| | 31 1,1,1-Trichloroethane | 97 | 4.744 | 4.744 | (0.984) | 129585 | 21.6200 | 21.62 |
| | 32 1,1-Dichloropropene | 75 | 4.924 | 4.924 | (0.887) | 111697 | 21.6934 | 21.69 |
| | 33 1,2-Dichloroethane | 62 | 5.179 | 5.179 | (0.933) | 136899 | 22.5132 | 22.51 |
| | 34 Carbon Tetrachloride | 117 | 4.913 | 4.913 | (0.885) | 107871 | 22.8077 | 22.80 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.058) | 228257 | 52.2096 | 52.20 |
| * | 36 1,4-Difluorobenzene | 114 | 5.554 | 5.557 | (1.000) | 702562 | 50.0000 | |
| | 37 Benzene | 78 | 5.141 | 5.141 | (0.926) | 341671 | 20.1822 | 20.18 |
| | 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.043) | 99358 | 20.2489 | 20.24 |
| | 39 Bromodichloromethane | 83 | 6.281 | 6.281 | (1.131) | 111505 | 21.1149 | 21.11 |
| | 41 2-Chloroethylvinyl ether | 63 | 6.573 | 6.577 | (1.184) | 1680 | 13.1527 | 13.15(a) |
| | 42 1,2-Dichloropropane | 63 | 6.011 | 6.011 | (1.082) | 90525 | 20.0270 | 20.02 |
| | 44 Dibromomethane | 93 | 6.123 | 6.123 | (1.103) | 62344 | 21.5863 | 21.58 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.858 | 6.858 | (0.838) | 185418 | 37.2035 | 37.20 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.693 | 6.693 | (1.205) | 123417 | 18.6886 | 18.68 |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 684402 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.926 | (0.846) | 724001 | 46.7399 | 46.73 |
| | 50 Toluene | 91 | 6.982 | 6.982 | (0.853) | 384841 | 20.7320 | 20.73 |
| | 51 trans-1,3-Dichloropropene | 75 | 7.199 | 7.199 | (1.296) | 103005 | 18.6656 | 18.66 |
| | 52 2-Hexanone | 43 | 7.593 | 7.593 | (0.928) | 124687 | 35.9241 | 35.92 |
| | 53 1,1,2-Trichloroethane | 83 | 7.357 | 7.357 | (0.899) | 74074 | 19.1785 | 19.17 |
| | 54 1,3-Dichloropropane | 76 | 7.499 | 7.499 | (0.916) | 155857 | 19.7508 | 19.75 |
| | 55 Dibromochloromethane | 129 | 7.694 | 7.694 | (0.940) | 95837 | 20.9126 | 20.91 |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 96764 | 21.3956 | 21.39 |
| | 57 1,2-Dibromoethane | 107 | 7.788 | 7.788 | (0.951) | 93005 | 19.5203 | 19.52 |
| | 58 1-Chlorohexane | 55 | 8.197 | 8.196 | (1.476) | 85000 | 23.5615 | 23.56 |
| | 59 Chlorobenzene | 112 | 8.212 | 8.211 | (1.003) | 267475 | 20.1897 | 20.18 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 8.286 | 8.286 | (1.012) | 93203 | 20.4690 | 20.46 |
| | 61 Ethylbenzene | 106 | 8.309 | 8.309 | (1.015) | 128281 | 20.8042 | 20.80 |
| | 62 m,p-Xylenes | 106 | 8.410 | 8.410 | (1.027) | 315974 | 43.3125 | 43.31 |
| | 63 o-Xylene | 106 | 8.748 | 8.748 | (1.069) | 149437 | 20.7352 | 20.73 |
| | 64 Styrene | 104 | 8.763 | 8.763 | (1.071) | 245316 | 21.4490 | 21.44 |
| | 66 Bromoform | 173 | 8.920 | 8.920 | (1.090) | 62286 | 20.1355 | 20.13 |
| | 67 Isopropylbenzene | 105 | 9.062 | 9.062 | (1.107) | 394603 | 22.7959 | 22.79 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 9.329 | 9.329 | (0.917) | 129433 | 18.9312 | 18.93 |
| $ | 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 310786 | 50.9393 | 50.93 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 363474 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 9.362 | 9.362 | (0.920) | 111848 | 18.5955 | 18.59 |
| | 73 n-Propylbenzene | 91 | 9.411 | 9.411 | (0.925) | 420279 | 22.0441 | 22.04 |
| | 74 Bromobenzene | 156 | 9.317 | 9.317 | (0.916) | 122029 | 19.8978 | 19.89 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.561 | 9.565 | (0.940) | 278039 | 21.2572 | 21.25 |
| | 76 2-Chlorotoluene | 91 | 9.482 | 9.482 | (0.932) | 283829 | 21.1776 | 21.17 |
| | 77 4-Chlorotoluene | 91 | 9.576 | 9.576 | (0.941) | 328879 | 22.1692 | 22.16 |
| | 78 tert-Butylbenzene | 119 | 9.838 | 9.838 | (0.967) | 275477 | 21.4438 | 21.44 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.880 | 9.880 | (0.971) | 292256 | 21.3550 | 21.35 |
| | 81 sec-Butylbenzene | 105 | 10.022 | 10.022 | (0.985) | 361487 | 22.1886 | 22.18 |
| | 82 p-Isopropyltoluene | 119 | 10.146 | 10.146 | (0.997) | 299038 | 21.9098 | 21.90 |
| | 83 1,3-Dichlorobenzene | 146 | 10.116 | 10.116 | (0.994) | 212772 | 20.4271 | 20.42 |
| | 84 1,4-Dichlorobenzene | 146 | 10.191 | 10.191 | (1.002) | 227388 | 20.4747 | 20.47 |
| | 87 n-Butylbenzene | 91 | 10.494 | 10.494 | (1.032) | 265837 | 22.7516 | 22.75 |
| | 88 1,2-Dichlorobenzene | 146 | 10.506 | 10.506 | (1.033) | 211123 | 20.2154 | 20.21 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 89 | 1,2-Dibromo-3-Chloropropane | 155 | 11.165 | 11.169 (1.098) | 17559 | 17.5998 | 17.59 |
| 90 | 1,2,4-Trichlorobenzene | 180 | 11.859 | 11.859 (1.166) | 140545 | 19.5652 | 19.56 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 91 Hexachlorobutadiene | 225 | 11.998 | 11.998 | (1.179) | 66169 | 22.8091 | 22.80 |
| | 92 Naphthalene | 128 | 12.065 | 12.065 | (1.186) | 310952 | 18.6353 | 18.63 |
| | 93 1,2,3-Trichlorobenzene | 180 | 12.268 | 12.271 | (1.206) | 133542 | 19.0161 | 19.01 |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 178961 | 41.0246 | 41.02 |
| M | 95 Xylenes (total) | 106 | | | | 465411 | 64.0477 | 64.04 |
| | 135 1,4-Dioxane | 88 | 6.172 | 6.172 | (1.281) | 24511 | 256.296 | 256.29 |
| | 141 Cyclohexane | 56 | 4.785 | 4.785 | (0.993) | 119549 | 20.6149 | 20.61 |
| | 138 Freon TF | 101 | 2.341 | 2.341 | (0.486) | 75892 | 23.4617 | 23.46 |
| | 140 1,3-Butadiene | 54 | 1.408 | 1.408 | (0.292) | 88690 | 19.4440 | 19.44 |
| | 147 Methylcyclohexane | 55 | 5.951 | 5.951 | (1.072) | 204167 | 20.9490 | 20.94 |
| | 146 Methyl Acetate | 43 | 2.716 | 2.720 | (0.564) | 75433 | 18.6005 | 18.60 |
| | 148 Tert-Butyl alcohol | 59 | 2.971 | 2.971 | (0.617) | 188595 | 420.941 | 420.94 |
| | 149 Isopropyl Alcohol | 45 | 2.566 | 2.566 | (0.533) | 121593 | 386.180 | 386.17 |
| | 72 trans-1,4-Dichloro-2-butene | 53 | 9.377 | 9.377 | (1.146) | 15852 | 20.1160 | 20.11 |
| | 12 Isobutyl Alcohol | 43 | 5.291 | 5.291 | (1.098) | 292547 | 467.491 | 467.49 |
| | 13 Acetonitrile | 39 | 2.675 | 2.678 | (0.555) | 123993 | 237.785 | 237.78 |
| | 166 1,2,3-Trimethylbenzene | 105 | 10.236 | 10.236 | (1.006) | 299413 | 21.4302 | 21.43 |
| | 156 Diisopropyl ether | 45 | 3.627 | 3.627 | (0.753) | 296887 | 22.1065 | 22.10 |
| | 162 Butyl acrylate | 55 | 8.736 | 8.736 | (1.067) | 156391 | 19.3178 | 19.31 |
| | 203 2-Ethylhexyl Acrylate | 55 | 12.043 | 12.043 | (1.184) | 74401 | 22.9175 | 22.91 |

## QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).




Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061705.D
Date : 17-JUN-2023 12:50
Client ID: VLCSW-230617
Sample Info: VLCSW-230617;VLCSW-230617;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061705.D
Inj Date  : 17-JUN-2023 12:50
InstruID  : VOA9.i
LabSampID : VLCSW-230617

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061707.D  Page 1
Report Date: 20-Jun-2023 15:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061707.D
Lab Smp Id: VBLKW-230617  Client Smp ID: VBLKW-230617
Inj Date  : 17-JUN-2023 13:35
Operator  : PC  Inst ID: VOA9.i
Smp Info  : VBLKW-230617;VBLKW-230617;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\8260C.m
Meth Date : 20-Jun-2023 15:42 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 7  QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.811 | 4.819 | (1.000) | 540004 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.744 | 4.751 | (0.986) | 222720 | 49.1320 | 49.13 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 5.096 | 5.100 | (1.059) | 276359 | 56.4344 | 56.43 |
| * 36 1,4-Difluorobenzene | 114 | 5.550 | 5.557 | (1.000) | 741846 | 50.0000 | |
| * 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 669837 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.922 | 6.926 | (0.846) | 828686 | 54.6614 | 54.66 |
| $ 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 288884 | 48.3335 | 48.33 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 336806 | 50.0000 | |

01196622

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061707.D



Date : 17-JUN-2023 13:35

Client ID: VBLKW-230617

Instrument: VOA9.i

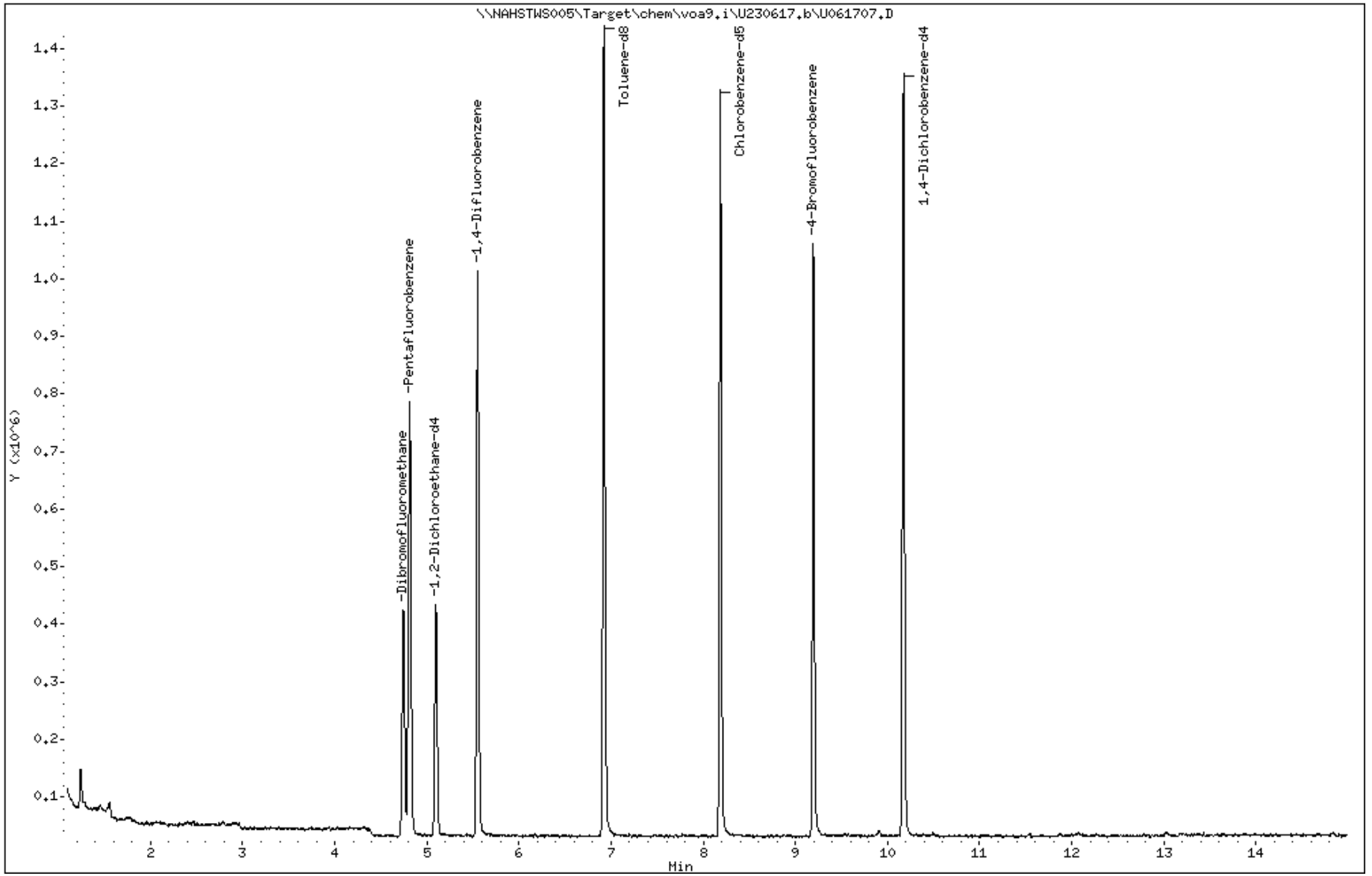
Sample Info: VBLKW-230617;VBLKW-230617;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061707.D
Inj Date  : 17-JUN-2023 13:35
InstruID  : VOA9.i
LabSampID : VBLKW-230617

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061710.D  Page 1
Report Date: 20-Jun-2023 15:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061710.D
Lab Smp Id: HS23060983-01MS  Client Smp ID: HS23060983-01MS
Inj Date  : 17-JUN-2023 14:42
Operator  : PC  Inst ID: VOA9.i
Smp Info  : HS23060983-01MS;HS23060983-01MS;3;;MS
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\8260C.m
Meth Date : 20-Jun-2023 15:42 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 10  QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.819 | 4.819 | (1.000) | 521096 | 50.0000 | |
| 2 | Dichlorodifluoromethane | 85 | 1.164 | 1.168 | (0.242) | 99188 | 20.6484 | 20.64 |
| 3 | Chloromethane | 50 | 1.299 | 1.303 | (0.270) | 123895 | 14.8404 | 14.84 |
| 5 | Vinyl Chloride | 62 | 1.378 | 1.381 | (0.286) | 123866 | 22.4726 | 22.47 |
| 6 | Bromomethane | 94 | 1.621 | 1.625 | (0.337) | 56246 | 18.7364 | 18.73 |
| 7 | Chloroethane | 64 | 1.700 | 1.704 | (0.353) | 78245 | 21.0735 | 21.07(M) |
| 8 | Trichlorofluoromethane | 101 | 1.899 | 1.902 | (0.394) | 166742 | 26.3396 | 26.33 |
| 9 | Acrolein | 56 | 2.266 | 2.270 | (0.470) | 9171 | 33.1575 | 33.15 |
| 10 | Acetone | 43 | 2.412 | 2.412 | (0.501) | 71893 | 36.7568 | 36.75 |
| 11 | 1,1-Dichloroethene | 96 | 2.334 | 2.337 | (0.484) | 86124 | 21.7736 | 21.77 |
| 15 | Iodomethane | 142 | 2.472 | 2.476 | (0.513) | 256562 | 84.7581 | 84.75 |
| 16 | Acrylonitrile | 53 | 3.068 | 3.068 | (0.637) | 77916 | 40.3193 | 40.31 |
| 17 | Methylene Chloride | 84 | 2.795 | 2.798 | (0.580) | 97761 | 19.9672 | 19.96 |
| 18 | Methyl tert-butyl ether | 73 | 3.083 | 3.083 | (0.640) | 260435 | 21.4711 | 21.47 |
| 19 | Carbon Disulfide | 76 | 2.521 | 2.528 | (0.523) | 514738 | 48.6786 | 48.67 |
| 20 | trans-1,2-Dichloroethene | 96 | 3.061 | 3.065 | (0.635) | 96573 | 22.4504 | 22.45 |
| 21 | Vinyl Acetate | 43 | 3.612 | 3.612 | (0.750) | 545202 | 41.5782 | 41.57 |
| 22 | 1,1-Dichloroethane | 63 | 3.518 | 3.518 | (0.730) | 167523 | 20.4924 | 20.49 |
| 24 | 2-Butanone | 43 | 4.268 | 4.268 | (0.886) | 84376 | 35.5140 | 35.51 |
| 26 | 2,2-Dichloropropane | 77 | 4.185 | 4.185 | (0.869) | 127284 | 23.7605 | 23.76 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 27 | cis-1,2-Dichloroethene | 96 | 4.197 | 4.200 (0.871) | 108995 | 21.1798 | 21.17 |
| 28 | Chloroform | 83 | 4.575 | 4.575 (0.949) | 179168 | 21.0580 | 21.05 |

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061710.D Page 2
Report Date: 20-Jun-2023 15:42

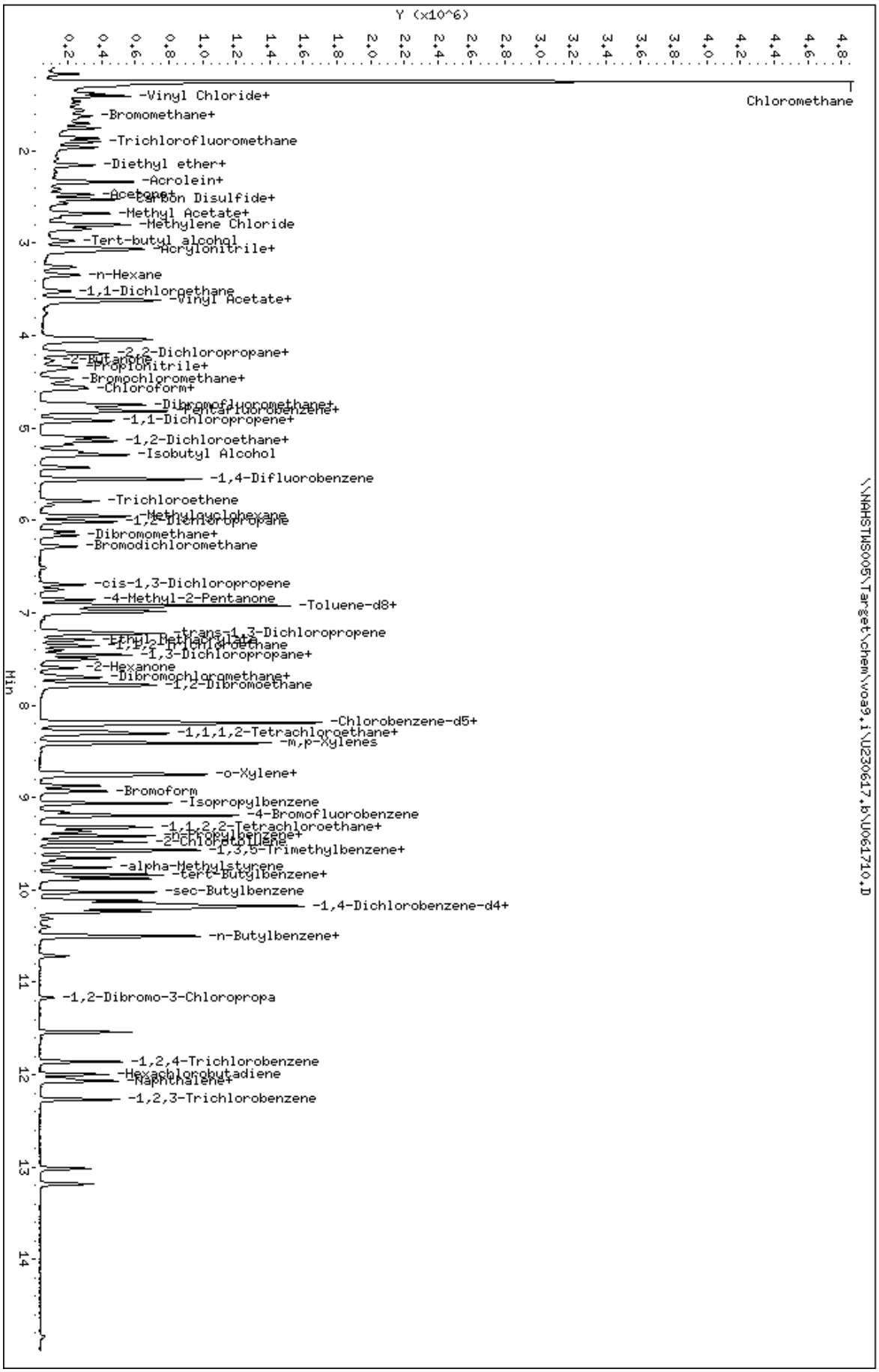
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 29 Bromochloromethane | 128 | 4.470 | 4.474 | (0.928) | 57472 | 19.9651 | 19.96 |
| $ | 30 Dibromofluoromethane | 113 | 4.751 | 4.751 | (0.986) | 230860 | 52.7991 | 52.79 |
| | 31 1,1,1-Trichloroethane | 97 | 4.744 | 4.744 | (0.984) | 147416 | 22.7326 | 22.73 |
| | 32 1,1-Dichloropropene | 75 | 4.924 | 4.924 | (0.887) | 130179 | 24.6741 | 24.67 |
| | 33 1,2-Dichloroethane | 62 | 5.179 | 5.179 | (0.933) | 145293 | 23.3183 | 23.31 |
| | 34 Carbon Tetrachloride | 117 | 4.913 | 4.913 | (0.885) | 123203 | 25.4222 | 25.42 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.058) | 266033 | 56.2953 | 56.29 |
| * | 36 1,4-Difluorobenzene | 114 | 5.554 | 5.557 | (1.000) | 719896 | 50.0000 | |
| | 37 Benzene | 78 | 5.141 | 5.141 | (0.926) | 373121 | 21.5093 | 21.50 |
| | 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.043) | 110626 | 22.0024 | 22.00 |
| | 39 Bromodichloromethane | 83 | 6.281 | 6.281 | (1.131) | 120189 | 22.2113 | 22.21 |
| | 42 1,2-Dichloropropane | 63 | 6.011 | 6.011 | (1.082) | 95091 | 20.5306 | 20.53 |
| | 44 Dibromomethane | 93 | 6.120 | 6.123 | (1.102) | 65937 | 22.2807 | 22.28 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.858 | 6.858 | (0.838) | 193665 | 38.2818 | 38.28 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.693 | 6.693 | (1.205) | 128325 | 18.9357 | 18.93 |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 694708 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.926 | (0.846) | 848894 | 53.9897 | 53.98 |
| | 50 Toluene | 91 | 6.982 | 6.982 | (0.853) | 425019 | 22.5568 | 22.55 |
| | 51 trans-1,3-Dichloropropene | 75 | 7.199 | 7.199 | (1.296) | 104764 | 18.5422 | 18.54 |
| | 52 2-Hexanone | 43 | 7.593 | 7.593 | (0.928) | 132326 | 37.5594 | 37.55 |
| | 53 1,1,2-Trichloroethane | 83 | 7.357 | 7.357 | (0.899) | 76796 | 19.5883 | 19.58 |
| | 54 1,3-Dichloropropane | 76 | 7.499 | 7.499 | (0.916) | 164113 | 20.4885 | 20.48 |
| | 55 Dibromochloromethane | 129 | 7.694 | 7.694 | (0.940) | 101241 | 21.7641 | 21.76 |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 114167 | 24.8691 | 24.86 |
| | 57 1,2-Dibromoethane | 107 | 7.788 | 7.788 | (0.951) | 100054 | 20.6882 | 20.68 |
| | 58 1-Chlorohexane | 55 | 8.196 | 8.196 | (1.476) | 94942 | 25.6837 | 25.68 |
| | 59 Chlorobenzene | 112 | 8.211 | 8.211 | (1.003) | 294116 | 21.8712 | 21.87 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 8.286 | 8.286 | (1.012) | 101371 | 21.9326 | 21.93 |
| | 61 Ethylbenzene | 106 | 8.309 | 8.309 | (1.015) | 147670 | 23.5934 | 23.59 |
| | 62 m,p-Xylenes | 106 | 8.410 | 8.410 | (1.027) | 364164 | 49.1777 | 49.17 |
| | 63 o-Xylene | 106 | 8.748 | 8.748 | (1.069) | 172821 | 23.6241 | 23.62 |
| | 64 Styrene | 104 | 8.763 | 8.763 | (1.071) | 264797 | 22.8088 | 22.80 |
| | 66 Bromoform | 173 | 8.920 | 8.920 | (1.090) | 62644 | 19.9508 | 19.95 |
| | 67 Isopropylbenzene | 105 | 9.062 | 9.062 | (1.107) | 456230 | 25.9651 | 25.96 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 9.329 | 9.329 | (0.917) | 131486 | 18.6139 | 18.61 |
| $ | 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 321403 | 51.9150 | 51.91 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 375533 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 9.362 | 9.362 | (0.920) | 114848 | 18.4811 | 18.48 |
| | 73 n-Propylbenzene | 91 | 9.415 | 9.411 | (0.926) | 489220 | 24.8362 | 24.83 |
| | 74 Bromobenzene | 156 | 9.317 | 9.317 | (0.916) | 129813 | 20.4874 | 20.48 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.565 | 9.565 | (0.940) | 318968 | 23.6033 | 23.60 |
| | 76 2-Chlorotoluene | 91 | 9.482 | 9.482 | (0.932) | 316802 | 22.8788 | 22.87 |
| | 77 4-Chlorotoluene | 91 | 9.576 | 9.576 | (0.941) | 362252 | 23.6347 | 23.63 |
| | 78 tert-Butylbenzene | 119 | 9.838 | 9.838 | (0.967) | 326102 | 24.5694 | 24.56 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.880 | 9.880 | (0.971) | 333798 | 23.6072 | 23.60 |
| | 81 sec-Butylbenzene | 105 | 10.022 | 10.022 | (0.985) | 423898 | 25.1839 | 25.18 |
| | 82 p-Isopropyltoluene | 119 | 10.146 | 10.146 | (0.997) | 361247 | 25.6178 | 25.61 |
| | 83 1,3-Dichlorobenzene | 146 | 10.116 | 10.116 | (0.994) | 229640 | 21.3385 | 21.33 |
| | 84 1,4-Dichlorobenzene | 146 | 10.191 | 10.191 | (1.002) | 243369 | 21.2100 | 21.20 |
| | 87 n-Butylbenzene | 91 | 10.494 | 10.494 | (1.032) | 308791 | 25.5792 | 25.57 |
| | 88 1,2-Dichlorobenzene | 146 | 10.506 | 10.506 | (1.033) | 224600 | 20.8153 | 20.81 |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 11.169 | 11.169 | (1.098) | 17965 | 17.4285 | 17.42 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 90 1,2,4-Trichlorobenzene | 180 | 11.859 | 11.859 (1.166) | 147895 | 19.9272 | 19.92 |
| 91 Hexachlorobutadiene | 225 | 11.998 | 11.998 (1.179) | 72793 | 24.2867 | 24.28 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 92 Naphthalene | 128 | 12.069 | 12.065 | (1.186) | 330328 | 19.1608 | 19.16 |
| | 93 1,2,3-Trichlorobenzene | 180 | 12.271 | 12.271 | (1.206) | 145362 | 20.0346 | 20.03 |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 205568 | 43.6302 | 43.63 |
| M | 95 Xylenes (total) | 106 | | | | 536985 | 72.8018 | 72.80 |
| | 135 1,4-Dioxane | 88 | 6.172 | 6.172 | (1.281) | 25109 | 242.669 | 242.66 |
| | 141 Cyclohexane | 56 | 4.785 | 4.785 | (0.993) | 138456 | 22.0379 | 22.03 |
| | 138 Freon TF | 101 | 2.337 | 2.341 | (0.485) | 90693 | 25.9143 | 25.91 |
| | 140 1,3-Butadiene | 54 | 1.404 | 1.408 | (0.291) | 97147 | 19.6854 | 19.68 |
| | 147 Methylcyclohexane | 55 | 5.951 | 5.951 | (1.072) | 239989 | 24.0317 | 24.03 |
| | 146 Methyl Acetate | 43 | 2.716 | 2.720 | (0.564) | 77467 | 17.6556 | 17.65 |
| | 148 Tert-Butyl alcohol | 59 | 2.975 | 2.971 | (0.617) | 188313 | 388.103 | 388.10 |
| | 149 Isopropyl Alcohol | 45 | 2.566 | 2.566 | (0.533) | 115881 | 340.170 | 340.17 |
| | 72 trans-1,4-Dichloro-2-butene | 53 | 9.381 | 9.377 | (1.146) | 15214 | 19.0200 | 19.01 |
| | 12 Isobutyl Alcohol | 43 | 5.291 | 5.291 | (1.098) | 303875 | 448.823 | 448.82 |
| | 13 Acetonitrile | 39 | 2.675 | 2.678 | (0.555) | 129842 | 230.147 | 230.14 |
| | 166 1,2,3-Trimethylbenzene | 105 | 10.236 | 10.236 | (1.006) | 336977 | 23.3443 | 23.34 |
| | 156 Diisopropyl ether | 45 | 3.623 | 3.627 | (0.752) | 317026 | 21.8186 | 21.81 |
| | 162 Butyl acrylate | 55 | 8.736 | 8.736 | (1.067) | 170357 | 20.7308 | 20.73 |
| | 203 2-Ethylhexyl Acrylate | 55 | 12.043 | 12.043 | (1.184) | 71906 | 21.5761 | 21.57 |

## QC Flag Legend

M - Compound response manually integrated.




Data File: \\NAHSTMS005\Target\chem\voa9.i\U230617.b\U061710.D
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Purge Volume: 5.0
Column phase: DB624

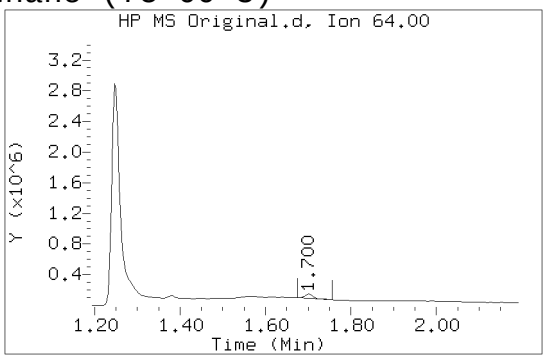
Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

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InstruID : VOA9.i
LabSampID : HS23060983-01MS

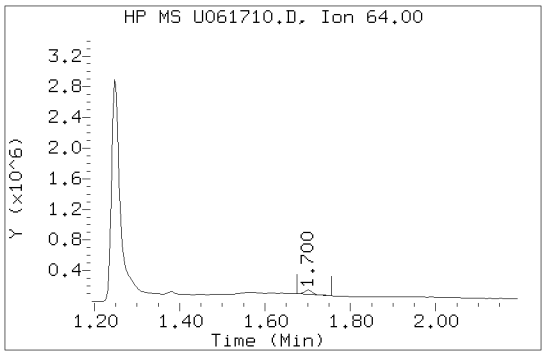
Chloroethane (75-00-3)

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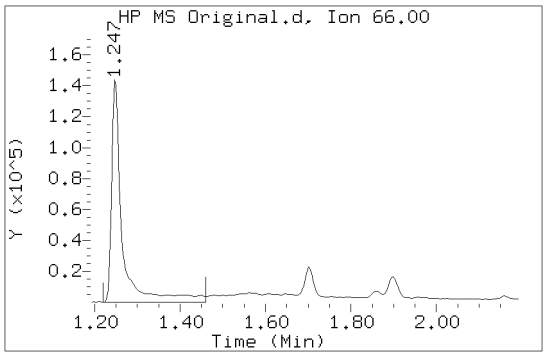
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19-Jun-2023
10:59



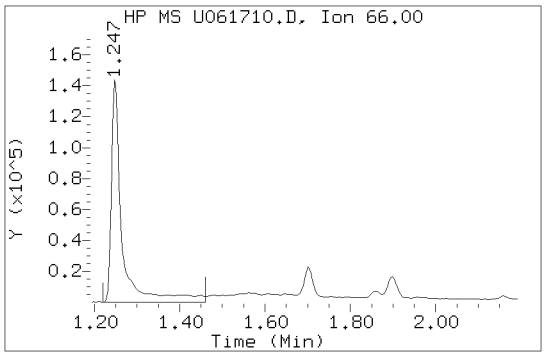

AFTER
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AREA
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20-Jun-2023
15:42




BEFORE
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19-Jun-2023
10:59




AFTER
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HEIGHT
143487
20-Jun-2023
15:42



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061711.D  Page 1
Report Date: 20-Jun-2023 15:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061711.D
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Inj Date  : 17-JUN-2023 15:04
Operator  : PC  Inst ID: VOA9.i
Smp Info  : HS23060983-01MSD;HS23060983-01MSD;3;;MSD
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 20-Jun-2023 15:42 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 10  QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.819 | 4.819 | (1.000) | 552599 | 50.0000 | |
| 2 Dichlorodifluoromethane | 85 | 1.168 | 1.168 | (0.242) | 101936 | 20.0131 | 20.01 |
| 3 Chloromethane | 50 | 1.303 | 1.303 | (0.270) | 127459 | 14.3567 | 14.35 |
| 5 Vinyl Chloride | 62 | 1.381 | 1.381 | (0.287) | 128512 | 21.9863 | 21.98 |
| 6 Bromomethane | 94 | 1.625 | 1.625 | (0.337) | 52497 | 16.2701 | 16.27 |
| 7 Chloroethane | 64 | 1.704 | 1.704 | (0.354) | 67125 | 17.0480 | 17.04(M) |
| 8 Trichlorofluoromethane | 101 | 1.902 | 1.902 | (0.395) | 171599 | 25.5615 | 25.56 |
| 9 Acrolein | 56 | 2.270 | 2.270 | (0.471) | 9138 | 31.1547 | 31.15 |
| 10 Acetone | 43 | 2.416 | 2.412 | (0.501) | 76872 | 37.1092 | 37.10 |
| 11 1,1-Dichloroethene | 96 | 2.337 | 2.337 | (0.485) | 89707 | 21.3866 | 21.38 |
| 15 Iodomethane | 142 | 2.476 | 2.476 | (0.514) | 272851 | 84.9634 | 84.96 |
| 16 Acrylonitrile | 53 | 3.072 | 3.068 | (0.638) | 80151 | 39.1114 | 39.11 |
| 17 Methylene Chloride | 84 | 2.798 | 2.798 | (0.581) | 102868 | 19.8045 | 19.80 |
| 18 Methyl tert-butyl ether | 73 | 3.087 | 3.083 | (0.641) | 273043 | 21.2273 | 21.22 |
| 19 Carbon Disulfide | 76 | 2.525 | 2.528 | (0.524) | 531194 | 47.3710 | 47.37 |
| 20 trans-1,2-Dichloroethene | 96 | 3.065 | 3.065 | (0.636) | 96333 | 21.1179 | 21.11 |
| 21 Vinyl Acetate | 43 | 3.612 | 3.612 | (0.750) | 564981 | 40.6303 | 40.63 |
| 22 1,1-Dichloroethane | 63 | 3.522 | 3.518 | (0.731) | 169522 | 19.5548 | 19.55 |
| 24 2-Butanone | 43 | 4.272 | 4.268 | (0.886) | 87318 | 34.6571 | 34.65 |
| 26 2,2-Dichloropropane | 77 | 4.189 | 4.185 | (0.869) | 133380 | 23.4838 | 23.48 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 27 cis-1,2-Dichloroethene | 96 | 4.200 | 4.200 (0.872) | 112313 | 20.5803 | 20.58 |
| 28 Chloroform | 83 | 4.575 | 4.575 (0.949) | 181164 | 20.0787 | 20.07 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 29 Bromochloromethane | 128 | 4.474 | 4.474 | (0.928) | 57412 | 18.8073 | 18.80 |
| $ | 30 Dibromofluoromethane | 113 | 4.751 | 4.751 | (0.986) | 237123 | 51.1298 | 51.12 |
| | 31 1,1,1-Trichloroethane | 97 | 4.744 | 4.744 | (0.984) | 152406 | 22.1623 | 22.16 |
| | 32 1,1-Dichloropropene | 75 | 4.924 | 4.924 | (0.886) | 132800 | 23.7882 | 23.78 |
| | 33 1,2-Dichloroethane | 62 | 5.179 | 5.179 | (0.932) | 149728 | 22.7101 | 22.71 |
| | 34 Carbon Tetrachloride | 117 | 4.913 | 4.913 | (0.884) | 126027 | 24.5764 | 24.57 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.058) | 275889 | 55.0376 | 55.03 |
| * | 36 1,4-Difluorobenzene | 114 | 5.557 | 5.557 | (1.000) | 761739 | 50.0000 | |
| | 37 Benzene | 78 | 5.141 | 5.141 | (0.925) | 382206 | 20.8227 | 20.82 |
| | 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.042) | 108373 | 20.3703 | 20.37 |
| | 39 Bromodichloromethane | 83 | 6.281 | 6.281 | (1.130) | 123533 | 21.5753 | 21.57 |
| | 42 1,2-Dichloropropane | 63 | 6.015 | 6.011 | (1.082) | 99188 | 20.2388 | 20.23 |
| | 44 Dibromomethane | 93 | 6.123 | 6.123 | (1.102) | 66236 | 21.1522 | 21.15 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.858 | 6.858 | (0.838) | 207151 | 40.0228 | 40.02 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.693 | 6.693 | (1.204) | 133400 | 18.6369 | 18.63 |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 710760 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.926 | (0.846) | 887905 | 55.1955 | 55.19 |
| | 50 Toluene | 91 | 6.982 | 6.982 | (0.853) | 438444 | 22.7437 | 22.74 |
| | 51 trans-1,3-Dichloropropene | 75 | 7.199 | 7.199 | (1.295) | 109740 | 18.3763 | 18.37 |
| | 52 2-Hexanone | 43 | 7.597 | 7.593 | (0.928) | 139666 | 38.7475 | 38.74 |
| | 53 1,1,2-Trichloroethane | 83 | 7.357 | 7.357 | (0.899) | 81322 | 20.2743 | 20.27 |
| | 54 1,3-Dichloropropane | 76 | 7.499 | 7.499 | (0.916) | 165891 | 20.2428 | 20.24 |
| | 55 Dibromochloromethane | 129 | 7.694 | 7.694 | (0.940) | 102609 | 21.5600 | 21.56 |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 116432 | 24.7897 | 24.78 |
| | 57 1,2-Dibromoethane | 107 | 7.788 | 7.788 | (0.951) | 101156 | 20.4437 | 20.44 |
| | 58 1-Chlorohexane | 55 | 8.197 | 8.196 | (1.475) | 96493 | 24.6694 | 24.66 |
| | 59 Chlorobenzene | 112 | 8.212 | 8.211 | (1.003) | 299508 | 21.7692 | 21.76 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 8.286 | 8.286 | (1.012) | 103209 | 21.8259 | 21.82 |
| | 61 Ethylbenzene | 106 | 8.309 | 8.309 | (1.015) | 148590 | 23.2042 | 23.20 |
| | 62 m,p-Xylenes | 106 | 8.410 | 8.410 | (1.027) | 366967 | 48.4370 | 48.43 |
| | 63 o-Xylene | 106 | 8.748 | 8.748 | (1.069) | 177506 | 23.7165 | 23.71 |
| | 64 Styrene | 104 | 8.763 | 8.763 | (1.071) | 271892 | 22.8910 | 22.89 |
| | 66 Bromoform | 173 | 8.920 | 8.920 | (1.090) | 62453 | 19.4408 | 19.44 |
| | 67 Isopropylbenzene | 105 | 9.062 | 9.062 | (1.107) | 455619 | 25.3447 | 25.34 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 9.329 | 9.329 | (0.917) | 130144 | 18.0257 | 18.02 |
| $ | 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 329814 | 52.0732 | 52.07 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 383829 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 9.362 | 9.362 | (0.920) | 113329 | 17.8425 | 17.84 |
| | 73 n-Propylbenzene | 91 | 9.415 | 9.411 | (0.926) | 496745 | 24.6731 | 24.67 |
| | 74 Bromobenzene | 156 | 9.317 | 9.317 | (0.916) | 130859 | 20.2061 | 20.20 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.565 | 9.565 | (0.940) | 329712 | 23.8710 | 23.87 |
| | 76 2-Chlorotoluene | 91 | 9.482 | 9.482 | (0.932) | 318597 | 22.5111 | 22.51 |
| | 77 4-Chlorotoluene | 91 | 9.576 | 9.576 | (0.941) | 364889 | 23.2922 | 23.29 |
| | 78 tert-Butylbenzene | 119 | 9.838 | 9.838 | (0.967) | 326907 | 24.0977 | 24.09 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.880 | 9.880 | (0.971) | 350131 | 24.2271 | 24.22 |
| | 81 sec-Butylbenzene | 105 | 10.022 | 10.022 | (0.985) | 437803 | 25.4478 | 25.44 |
| | 82 p-Isopropyltoluene | 119 | 10.146 | 10.146 | (0.997) | 366832 | 25.4516 | 25.45 |
| | 83 1,3-Dichlorobenzene | 146 | 10.116 | 10.116 | (0.994) | 231443 | 21.0412 | 21.04 |
| | 84 1,4-Dichlorobenzene | 146 | 10.191 | 10.191 | (1.002) | 246763 | 21.0409 | 21.04 |
| | 87 n-Butylbenzene | 91 | 10.494 | 10.494 | (1.032) | 318391 | 25.8044 | 25.80 |
| | 88 1,2-Dichlorobenzene | 146 | 10.506 | 10.506 | (1.033) | 229702 | 20.8280 | 20.82 |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 11.169 | 11.169 | (1.098) | 17982 | 17.0679 | 17.06 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 90 1,2,4-Trichlorobenzene | 180 | 11.859 | 11.859 (1.166) | 153573 | 20.2450 | 20.24 |
| 91 Hexachlorobutadiene | 225 | 11.998 | 11.998 (1.179) | 72474 | 23.6577 | 23.65 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 92 Naphthalene | 128 | 12.069 | 12.065 | (1.186) | 361522 | 20.5169 | 20.51 |
| | 93 1,2,3-Trichlorobenzene | 180 | 12.268 | 12.271 | (1.206) | 150273 | 20.2638 | 20.26 |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 208646 | 41.6982 | 41.69 |
| M | 95 Xylenes (total) | 106 | | | | 544473 | 72.1536 | 72.15 |
| | 135 1,4-Dioxane | 88 | 6.172 | 6.172 | (1.281) | 27202 | 247.909 | 247.90 |
| | 141 Cyclohexane | 56 | 4.785 | 4.785 | (0.993) | 144633 | 21.7151 | 21.71 |
| | 138 Freon TF | 101 | 2.341 | 2.341 | (0.486) | 91542 | 24.6658 | 24.66 |
| | 140 1,3-Butadiene | 54 | 1.408 | 1.408 | (0.292) | 103212 | 19.7220 | 19.72 |
| | 147 Methylcyclohexane | 55 | 5.951 | 5.951 | (1.071) | 252994 | 23.9423 | 23.94 |
| | 146 Methyl Acetate | 43 | 2.720 | 2.720 | (0.564) | 81555 | 17.5277 | 17.52 |
| | 148 Tert-Butyl alcohol | 59 | 2.978 | 2.971 | (0.618) | 205107 | 398.750 | 398.75 |
| | 149 Isopropyl Alcohol | 45 | 2.570 | 2.566 | (0.533) | 126533 | 350.264 | 350.26 |
| | 72 trans-1,4-Dichloro-2-butene | 53 | 9.377 | 9.377 | (1.146) | 14870 | 18.1701 | 18.17 |
| | 12 Isobutyl Alcohol | 43 | 5.291 | 5.291 | (1.098) | 317553 | 442.287 | 442.28 |
| | 13 Acetonitrile | 39 | 2.678 | 2.678 | (0.556) | 137479 | 229.792 | 229.79 |
| | 166 1,2,3-Trimethylbenzene | 105 | 10.236 | 10.236 | (1.006) | 345598 | 23.4241 | 23.42 |
| | 156 Diisopropyl ether | 45 | 3.627 | 3.627 | (0.753) | 329661 | 21.3947 | 21.39 |
| | 162 Butyl acrylate | 55 | 8.736 | 8.736 | (1.067) | 177447 | 21.1059 | 21.10 |
| | 203 2-Ethylhexyl Acrylate | 55 | 12.043 | 12.043 | (1.184) | 74737 | 21.9050 | 21.90 |

## QC Flag Legend

M - Compound response manually integrated.

01196636

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061711.D



Date : 17-JUN-2023 15:04

Client ID: HS23060983-01MSD

Instrument: VOA9.i

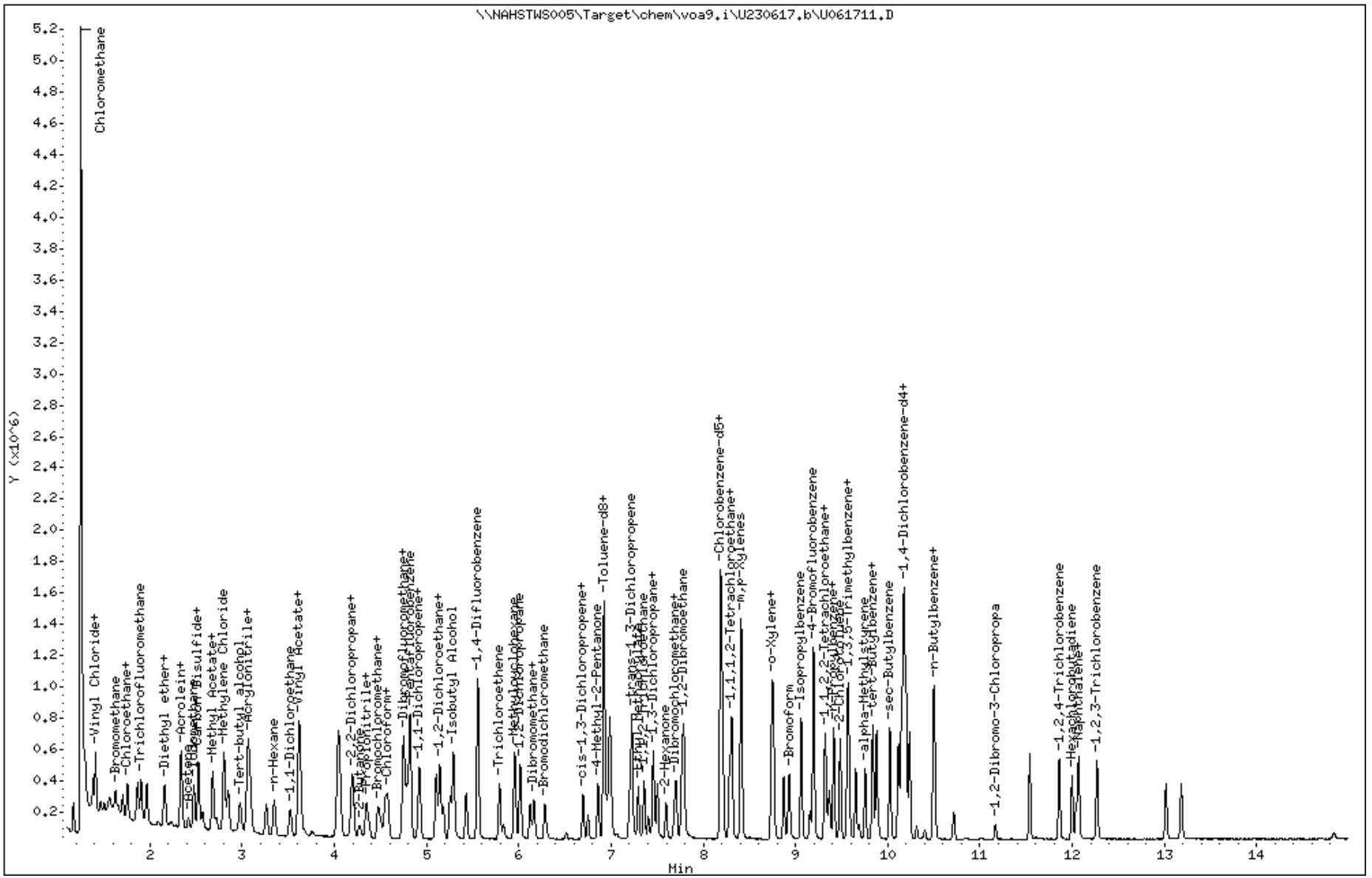
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Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



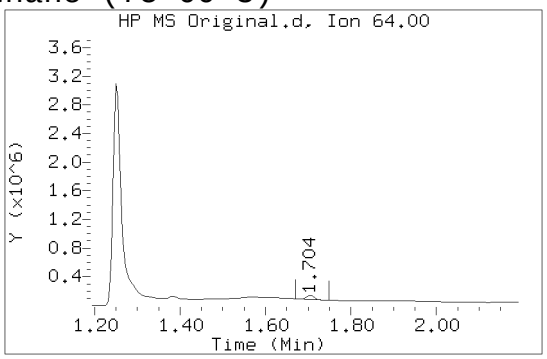
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LabSampID : HS23060983-01MSD

Chloroethane (75-00-3)

Reason Code:

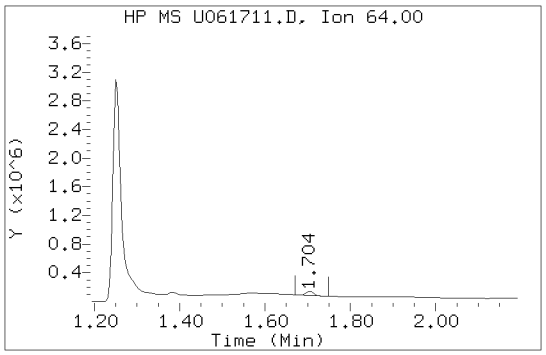
BEFORE

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19-Jun-2023
10:59



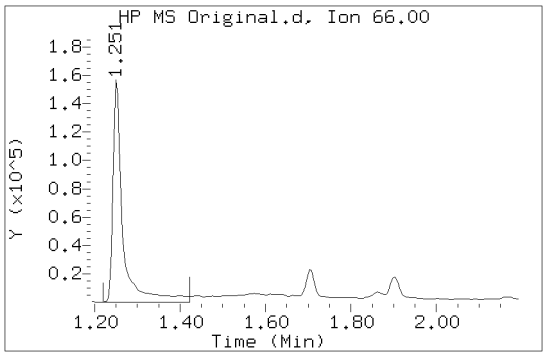

AFTER

MASS
64
AREA
67125
HEIGHT
56101
20-Jun-2023
15:42



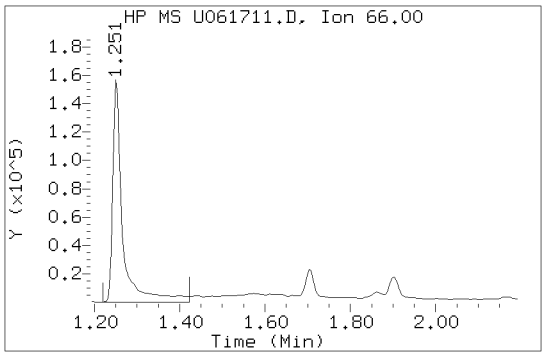

BEFORE

MASS
66
AREA
253303
HEIGHT
156517
19-Jun-2023
10:59




AFTER

MASS
66
AREA
253303
HEIGHT
156517
20-Jun-2023
15:42



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061715.D  Page 1
Report Date: 20-Jun-2023 15:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061715.D
Lab Smp Id: HS23061096-10  Client Smp ID: HS23061096-10
Inj Date  : 17-JUN-2023 16:34
Operator  : PC  Inst ID: VOA9.i
Smp Info  : HS23061096-10;HS23061096-10;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\8260C.m
Meth Date : 20-Jun-2023 15:42 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.815 | 4.819 | (1.000) | 517179 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.752 | 4.751 | (0.987) | 224920 | 51.8243 | 51.82 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.059) | 272840 | 58.1958 | 58.19 |
| * 36 1,4-Difluorobenzene | 114 | 5.554 | 5.557 | (1.000) | 706012 | 50.0000 | |
| * 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 653830 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.922 | 6.926 | (0.846) | 813806 | 54.9941 | 54.99 |
| $ 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 278311 | 47.6927 | 47.69 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 326328 | 50.0000 | |

01196639

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061715.D



Date : 17-JUN-2023 16:34

Client ID: HS23061096-10

Instrument: VOA9.i

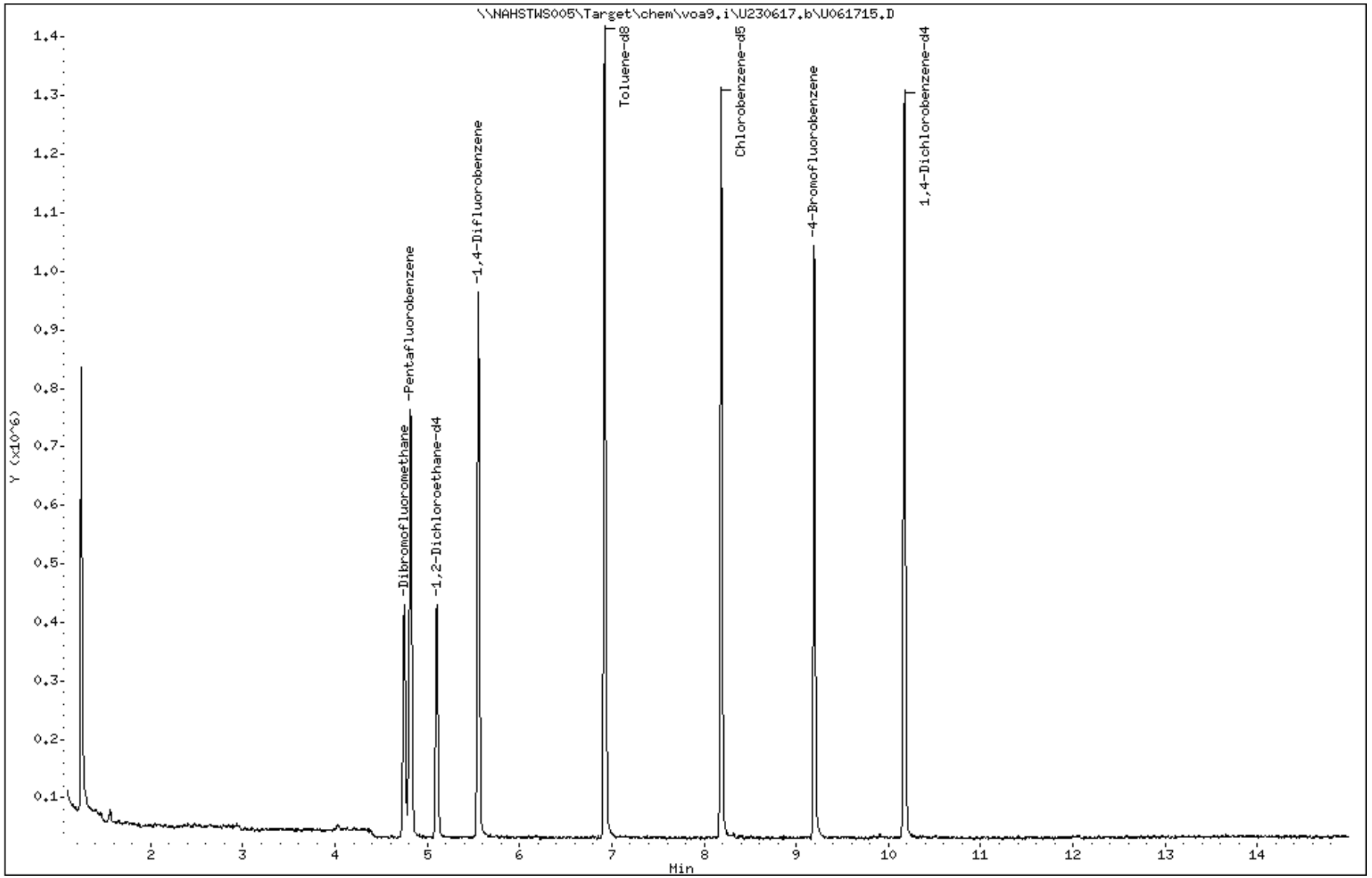
Sample Info: HS23061096-10;HS23061096-10;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061715.D
Inj Date  : 17-JUN-2023 16:34
InstruID  : VOA9.i
LabSampID : HS23061096-10

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061716.D  Page 1
Report Date: 20-Jun-2023 15:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061716.D
Lab Smp Id: HS23061096-02  Client Smp ID: HS23061096-02
Inj Date  : 17-JUN-2023 16:56
Operator  : PC  Inst ID: VOA9.i
Smp Info  : HS23061096-02;HS23061096-02;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\8260C.m
Meth Date : 20-Jun-2023 15:42 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.815 | 4.819 | (1.000) | 528267 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.747 | 4.751 | (0.986) | 224986 | 50.7449 | 50.74 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 5.096 | 5.100 | (1.058) | 272151 | 56.8144 | 56.81 |
| * 36 1,4-Difluorobenzene | 114 | 5.553 | 5.557 | (1.000) | 721769 | 50.0000 | |
| 38 Trichloroethene | 130 | 5.786 | 5.790 | (1.042) | 11220 | 2.22576 | 2.22(a) |
| * 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 646813 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.922 | 6.926 | (0.846) | 811754 | 55.4505 | 55.45 |
| $ 69 4-Bromofluorobenzene | 95 | 9.193 | 9.194 | (1.123) | 275478 | 47.7199 | 47.71 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 321304 | 50.0000 | |

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01196642

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061716.D

Page 1

Date : 17-JUN-2023 16:56

Client ID: HS23061096-02

Instrument: VOA9.i

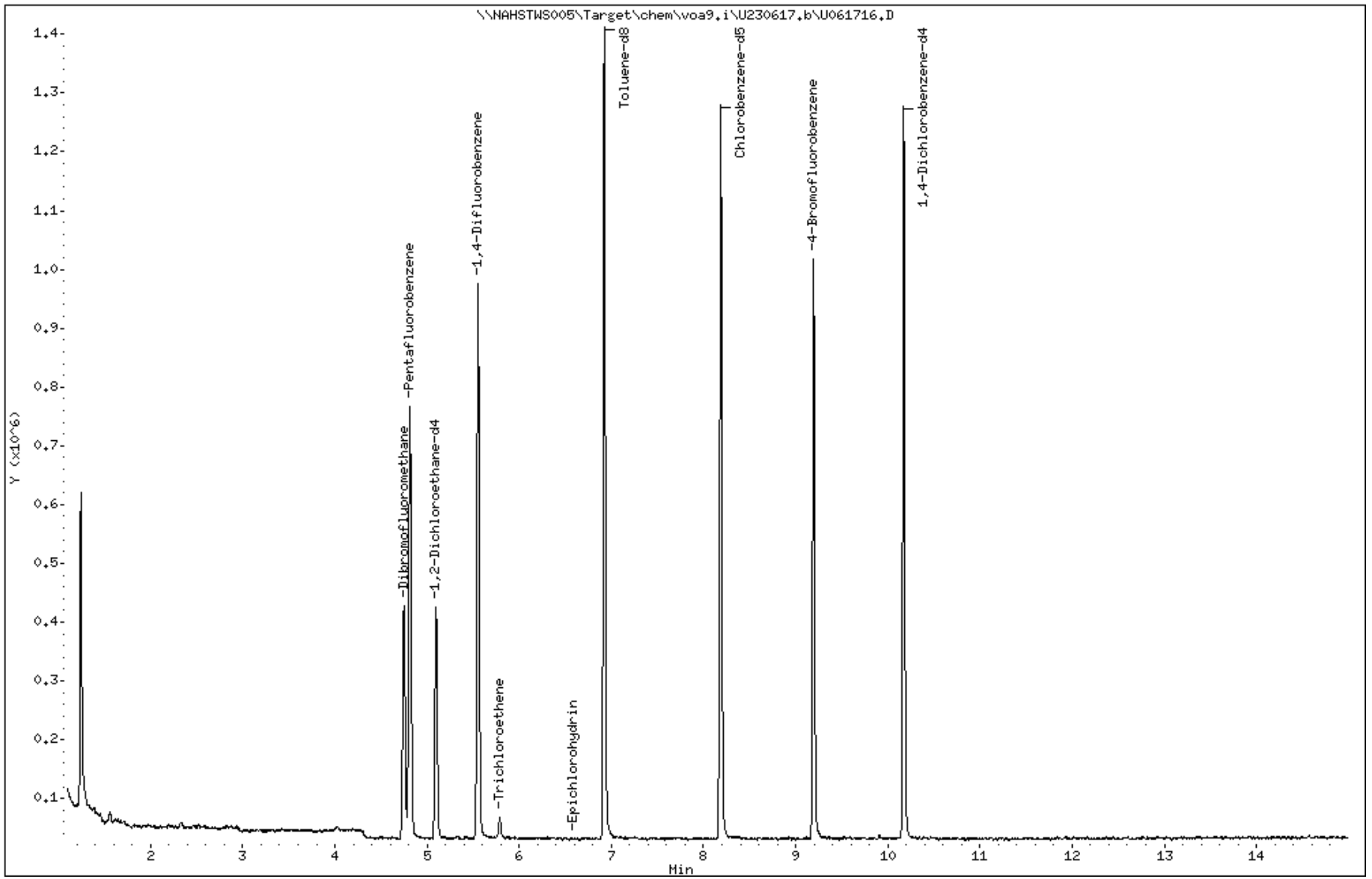
Sample Info: HS23061096-02;HS23061096-02;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061716.D

Date : 17-JUN-2023 16:56

Client ID: HS23061096-02

Instrument: VOA9.i

Sample Info: HS23061096-02;HS23061096-02;;;

Purge Volume: 5.0

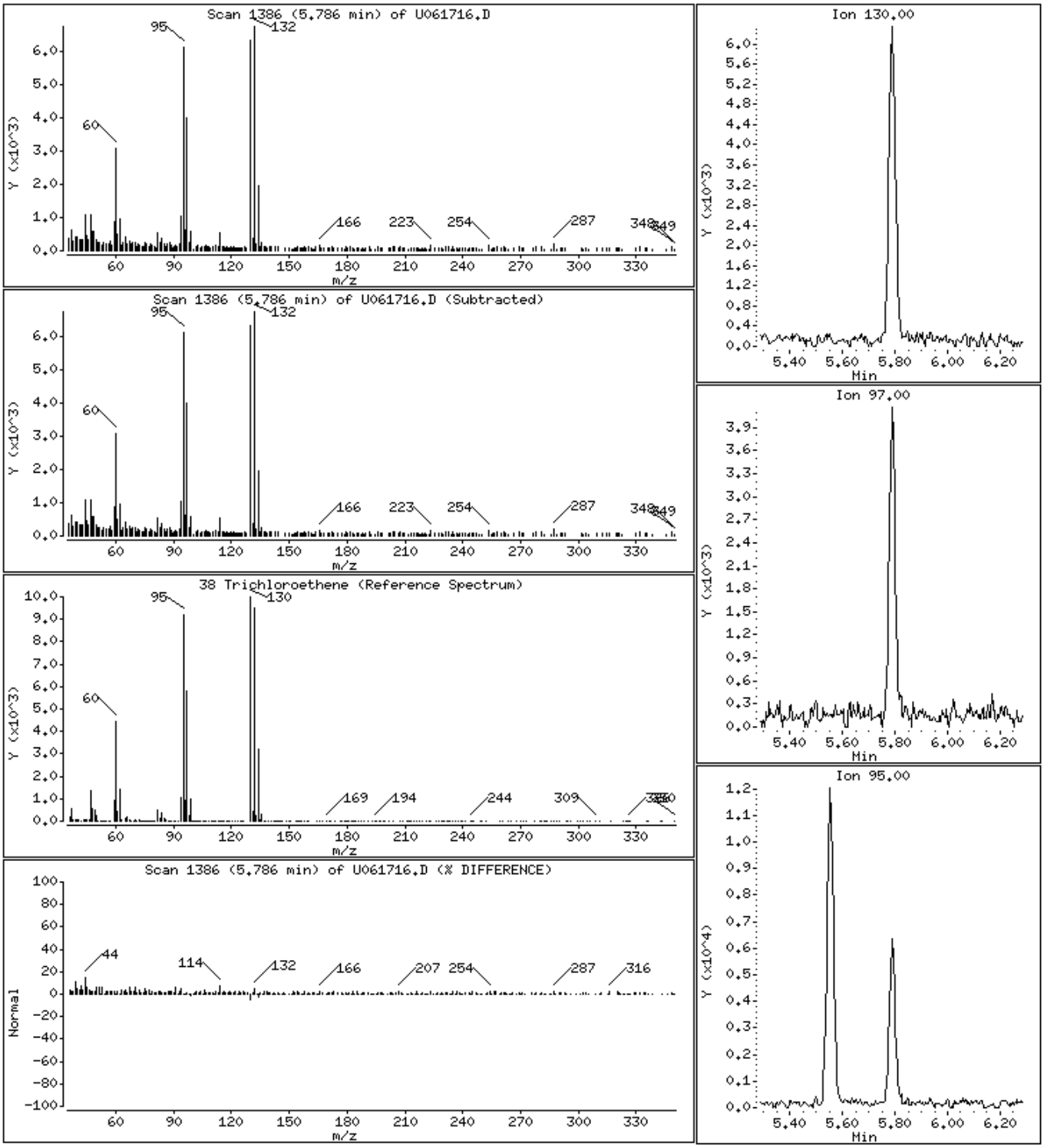
Operator: PC

Column phase: DB624

Column diameter: 0.18

38 Trichloroethene

Concentration: 2.22 ug/l




ALS

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061716.D
Inj Date  : 17-JUN-2023 16:56
InstruID  : VOA9.i
LabSampID : HS23061096-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061717.D  Page 1
Report Date: 20-Jun-2023 15:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061717.D
Lab Smp Id: HS23061096-03  Client Smp ID: HS23061096-03
Inj Date  : 17-JUN-2023 17:19
Operator  : PC  Inst ID: VOA9.i
Smp Info  : HS23061096-03;HS23061096-03;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\8260C.m
Meth Date : 20-Jun-2023 15:42 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.815 | 4.819 | (1.000) | 508536 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.747 | 4.751 | (0.986) | 219148 | 51.3497 | 51.34 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.059) | 259841 | 56.3436 | 56.34 |
| * 36 1,4-Difluorobenzene | 114 | 5.553 | 5.557 | (1.000) | 700258 | 50.0000 | |
| 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.043) | 7783 | 1.59137 | 1.59(a) |
| * 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 638461 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.922 | 6.926 | (0.846) | 785745 | 54.3760 | 54.37 |
| $ 69 4-Bromofluorobenzene | 95 | 9.193 | 9.194 | (1.123) | 272877 | 47.8908 | 47.89 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 326300 | 50.0000 | |

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01196646

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061717.D



Date : 17-JUN-2023 17:19

Client ID: HS23061096-03

Instrument: VOA9.i

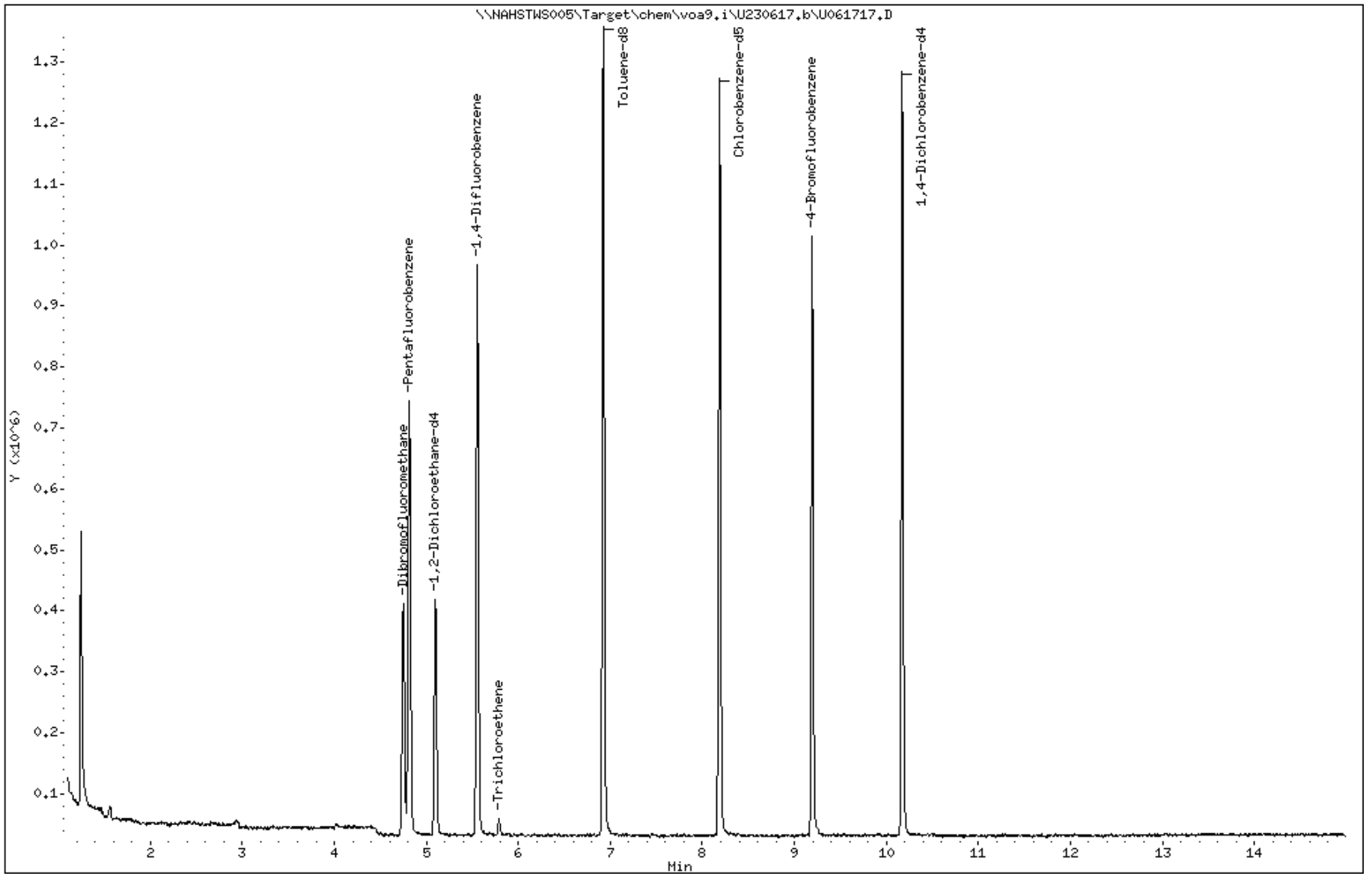
Sample Info: HS23061096-03;HS23061096-03;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061717.D

Date : 17-JUN-2023 17:19

Client ID: HS23061096-03

Instrument: VOA9.i

Sample Info: HS23061096-03;HS23061096-03;;;

Purge Volume: 5.0

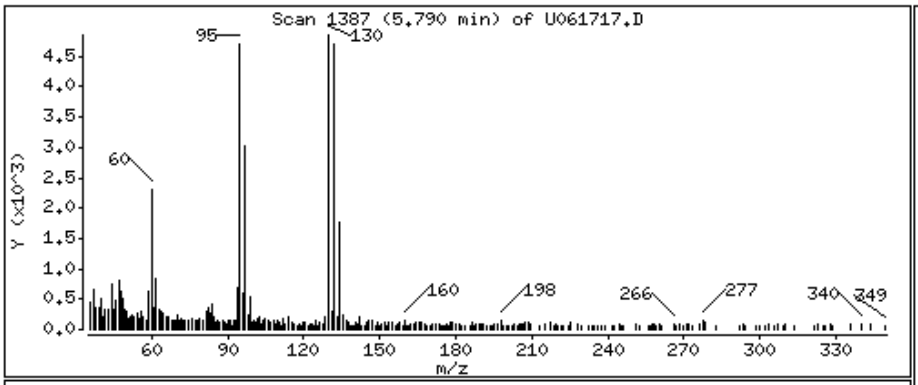
Operator: PC

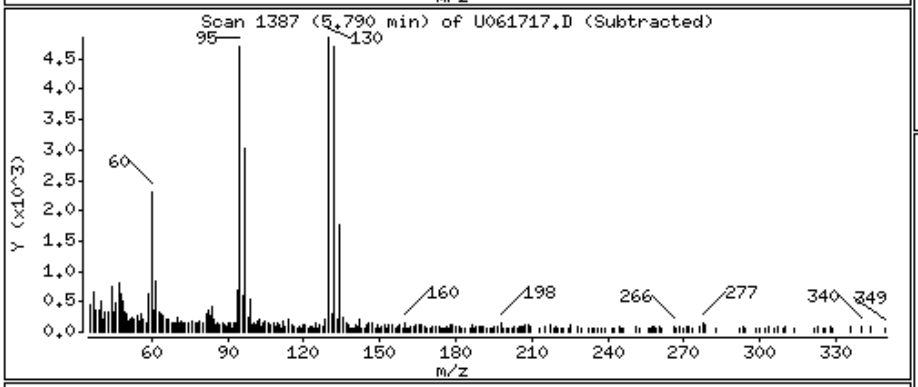
Column phase: DB624

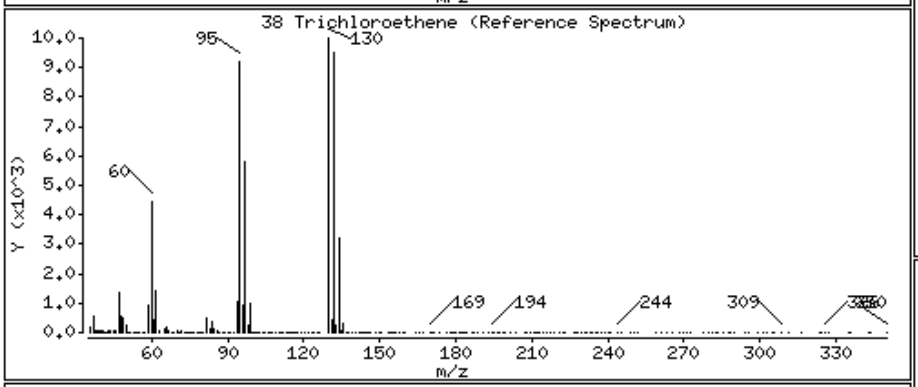
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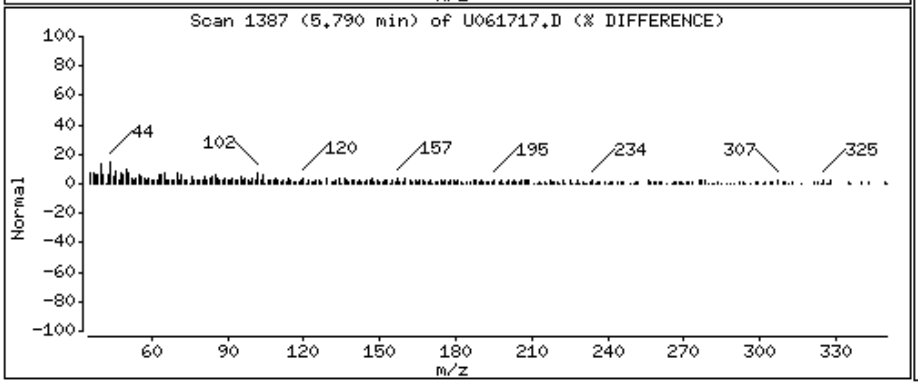
38 Trichloroethene

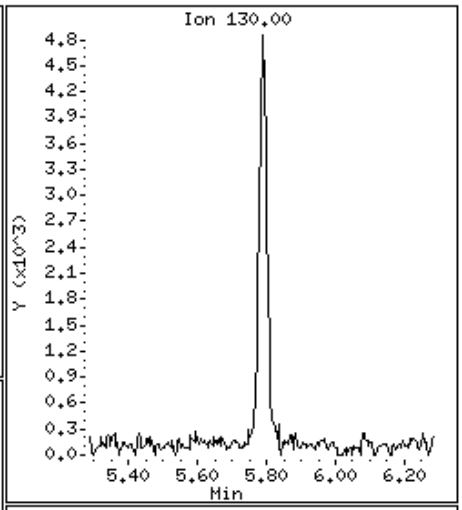
Concentration: 1.59 ug/l

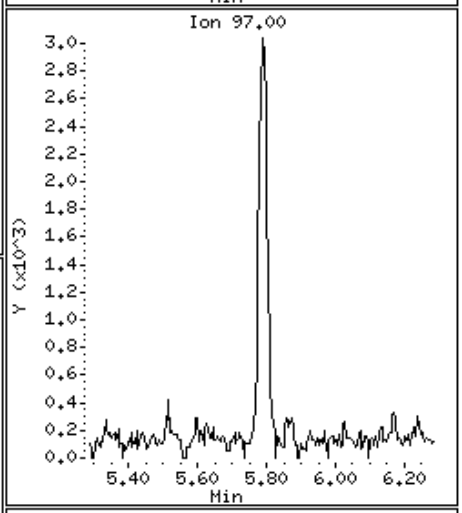


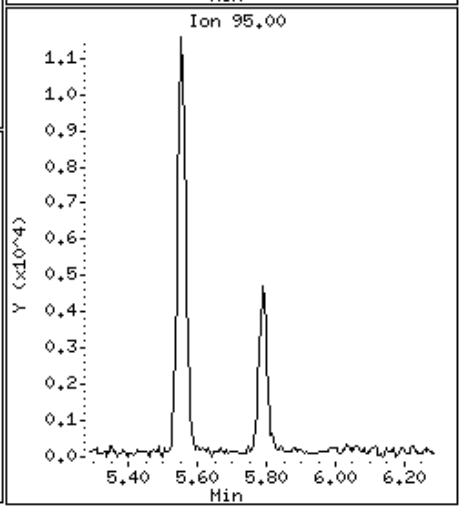



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061717.D
Inj Date  : 17-JUN-2023 17:19
InstruID  : VOA9.i
LabSampID : HS23061096-03

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061718.D  Page 1
Report Date: 20-Jun-2023 15:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061718.D
Lab Smp Id: HS23061096-05  Client Smp ID: HS23061096-05
Inj Date  : 17-JUN-2023 17:41
Operator  : PC  Inst ID: VOA9.i
Smp Info  : HS23061096-05;HS23061096-05;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\8260C.m
Meth Date : 20-Jun-2023 15:42 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.812 | 4.819 | (1.000) | 503969 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.744 | 4.751 | (0.986) | 220131 | 52.0518 | 52.05 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 5.096 | 5.100 | (1.059) | 265629 | 58.1422 | 58.14 |
| * 36 1,4-Difluorobenzene | 114 | 5.550 | 5.557 | (1.000) | 702589 | 50.0000 | |
| 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.043) | 5192 | 1.05808 | 1.05(a) |
| * 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 647588 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.922 | 6.926 | (0.846) | 790627 | 53.9427 | 53.94 |
| $ 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 275098 | 47.5947 | 47.59 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 317611 | 50.0000 | |

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01196650

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061718.D



Date : 17-JUN-2023 17:41

Client ID: HS23061096-05

Instrument: VOA9.i

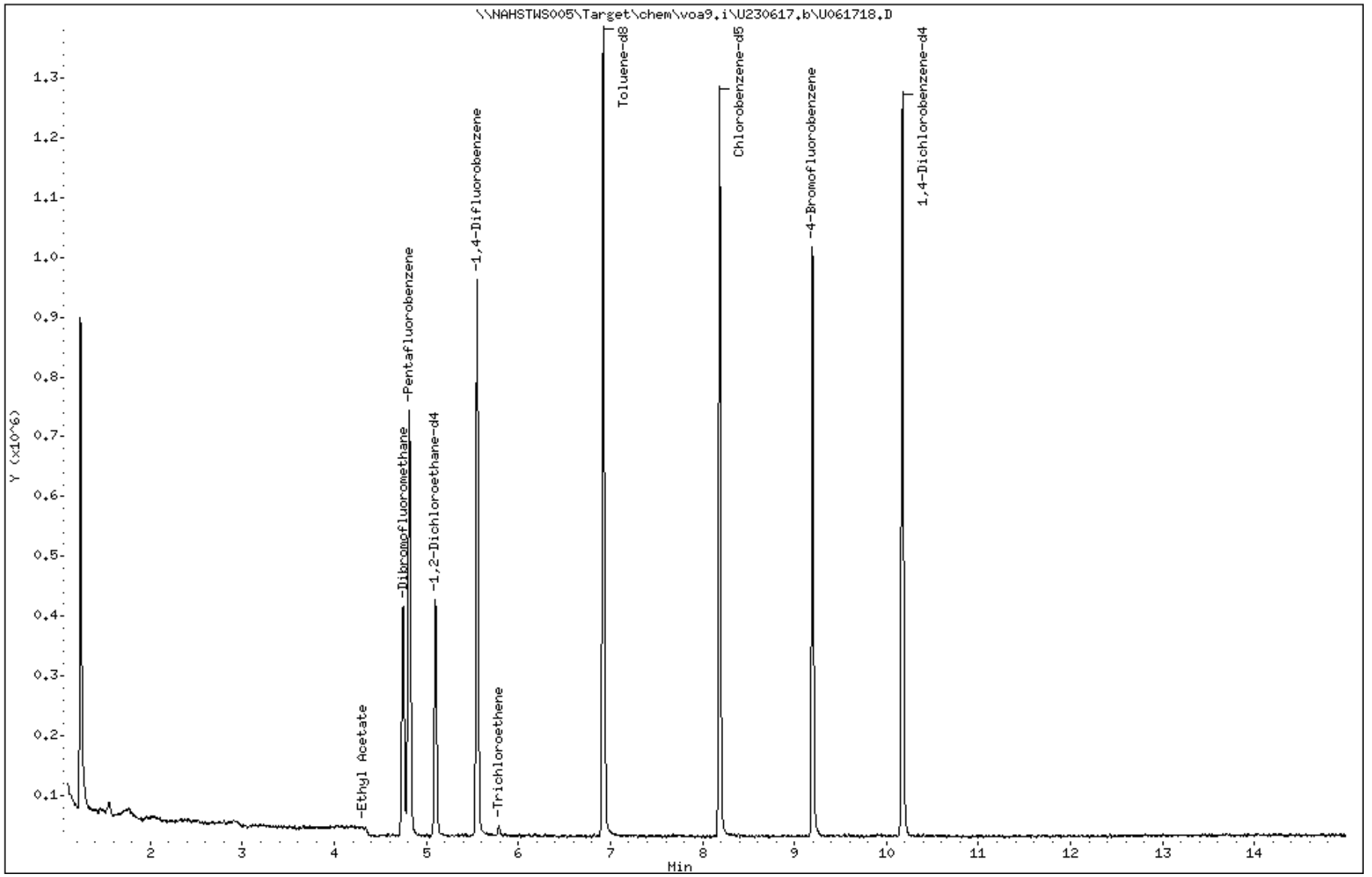
Sample Info: HS23061096-05;HS23061096-05;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061718.D Page 2

Date : 17-JUN-2023 17:41

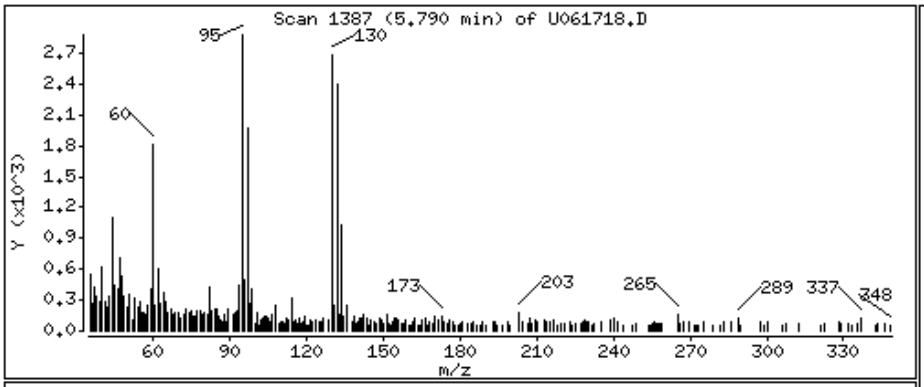
Client ID: HS23061096-05 Instrument: VOA9.i

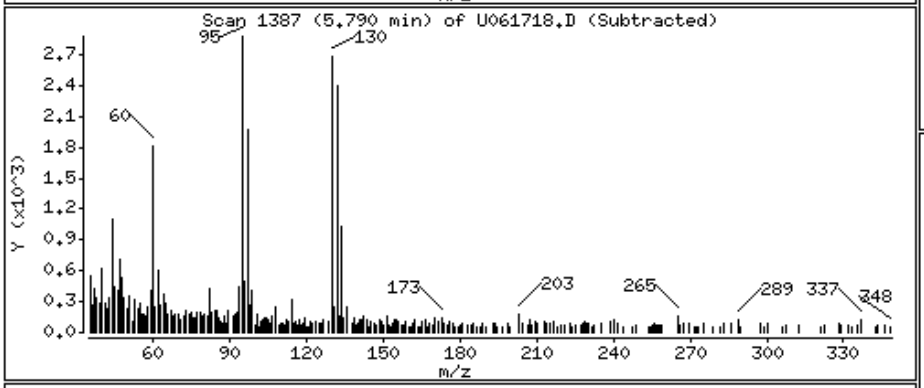
Sample Info: HS23061096-05;HS23061096-05;;;

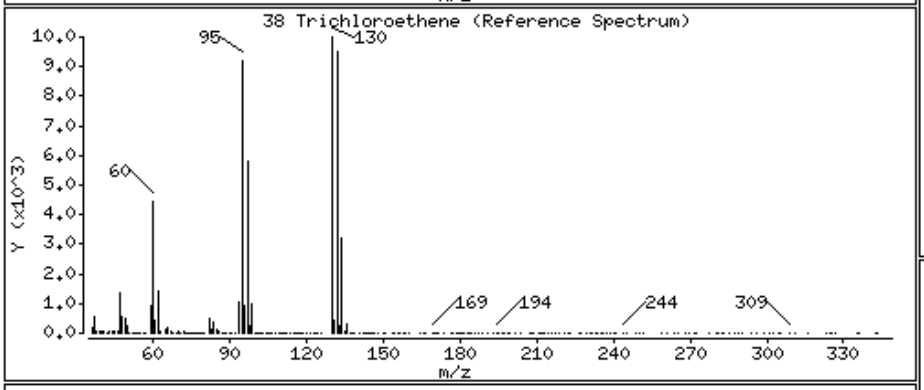
Purge Volume: 5.0 Operator: PC

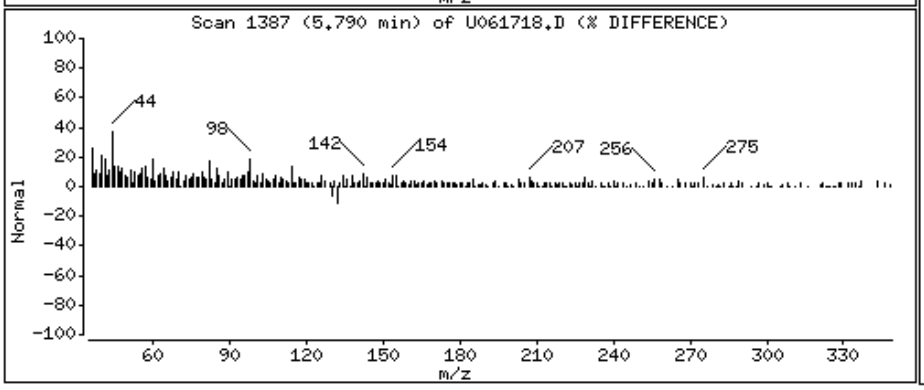
Column phase: DB624 Column diameter: 0.18

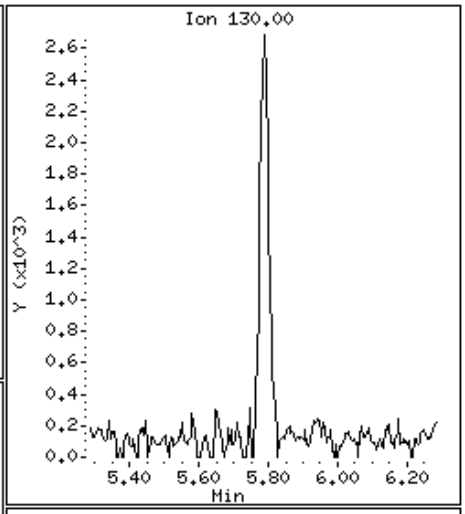
38 Trichloroethene Concentration: 1.05 ug/l

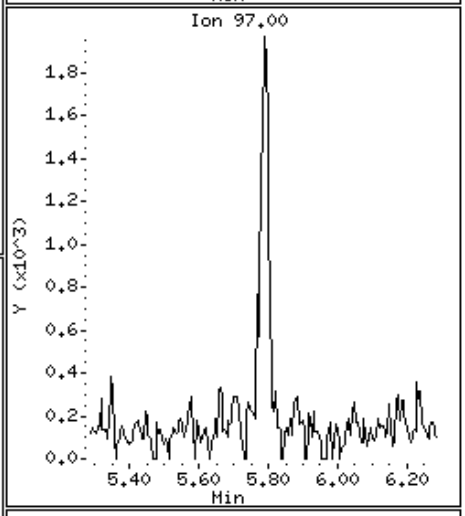


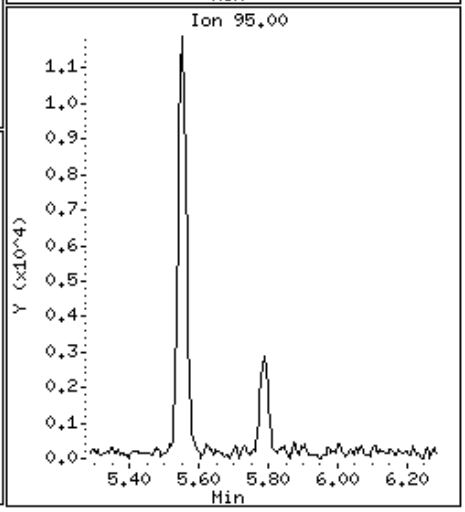



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061718.D
Inj Date  : 17-JUN-2023 17:41
InstruID  : VOA9.i
LabSampID : HS23061096-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061719.D  Page 1
Report Date: 20-Jun-2023 15:43

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061719.D
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Inj Date  : 17-JUN-2023 18:03
Operator  : PC  Inst ID: VOA9.i
Smp Info  : HS23061096-06;HS23061096-06;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\8260C.m
Meth Date : 20-Jun-2023 15:42 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.819 | 4.819 | (1.000) | 509221 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.751 | 4.751 | (0.986) | 221129 | 51.7466 | 51.74 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 5.103 | 5.100 | (1.059) | 270203 | 58.5380 | 58.53 |
| * 36 1,4-Difluorobenzene | 114 | 5.557 | 5.557 | (1.000) | 711630 | 50.0000 | |
| 38 Trichloroethene | 130 | 5.793 | 5.790 | (1.042) | 5715 | 1.14986 | 1.14(a) |
| * 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 646781 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.925 | 6.926 | (0.846) | 805417 | 55.0204 | 55.02 |
| $ 69 4-Bromofluorobenzene | 95 | 9.193 | 9.194 | (1.123) | 282621 | 48.9832 | 48.98 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 323772 | 50.0000 | |

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01196654

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061719.D



Date : 17-JUN-2023 18:03

Client ID: HS23061096-06

Instrument: VOA9.i

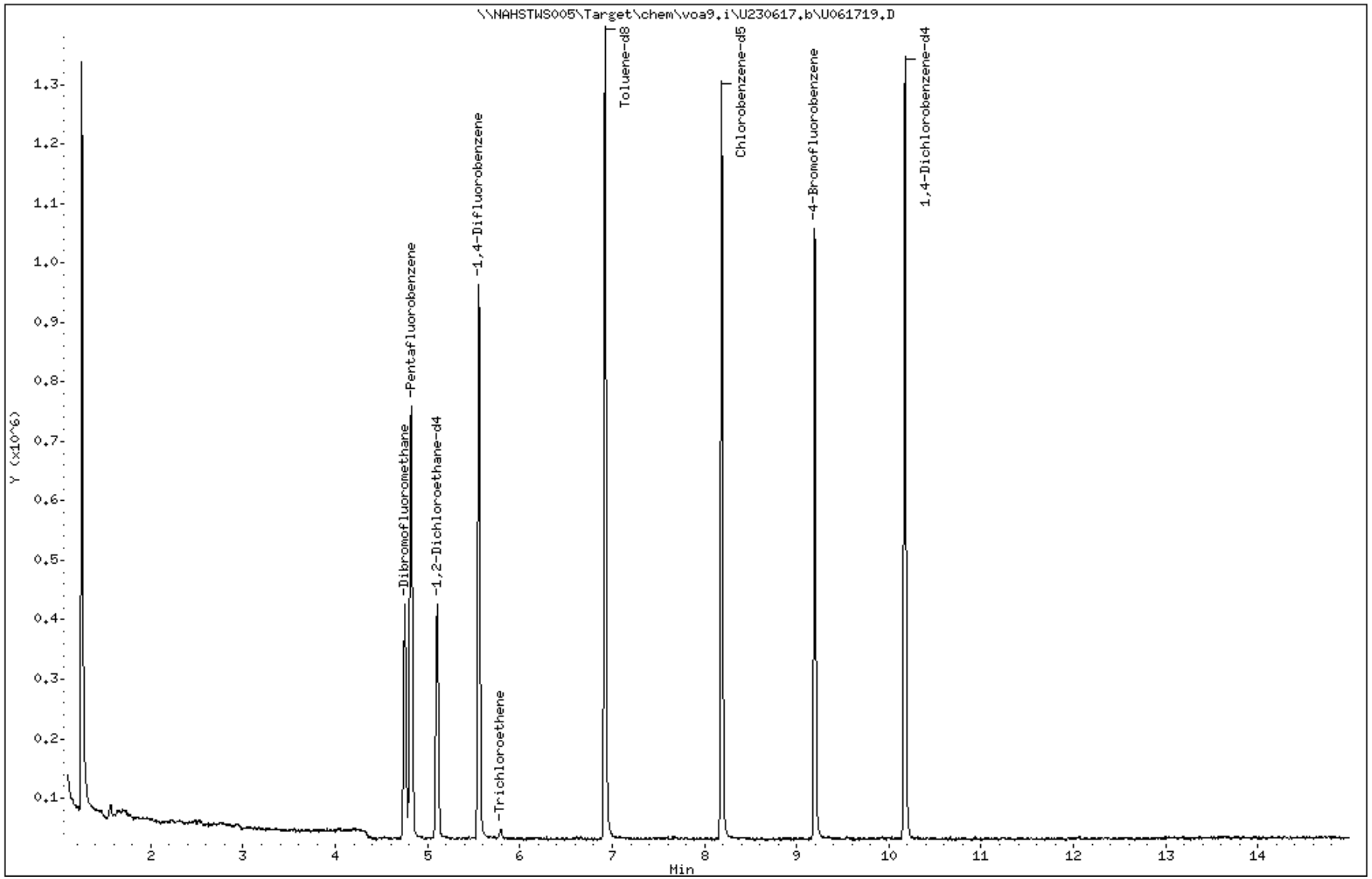
Sample Info: HS23061096-06;HS23061096-06;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061719.D Page 2

Date : 17-JUN-2023 18:03

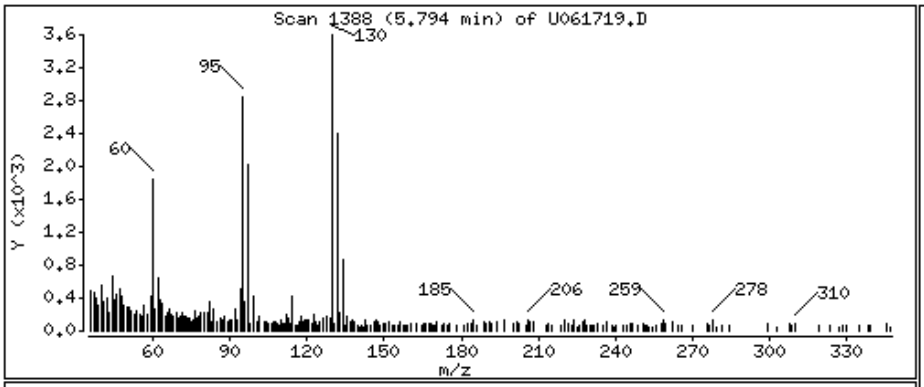
Client ID: HS23061096-06 Instrument: VOA9.i

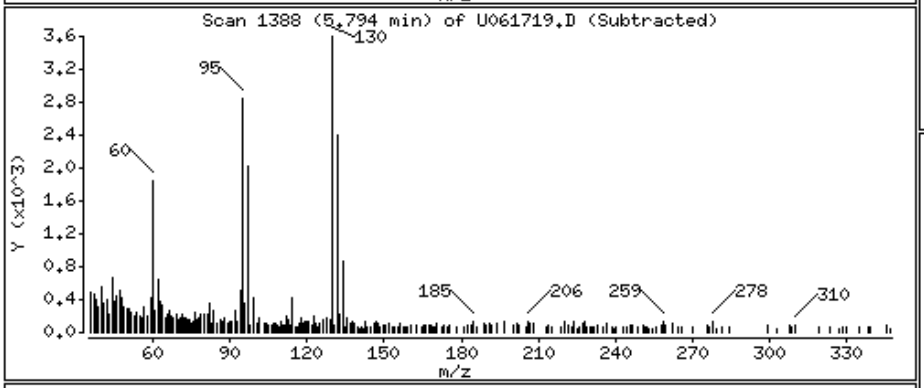
Sample Info: HS23061096-06;HS23061096-06;;;

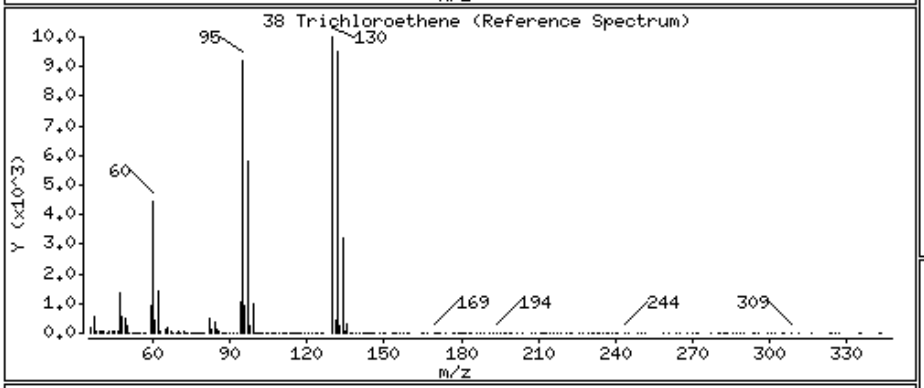
Purge Volume: 5.0 Operator: PC

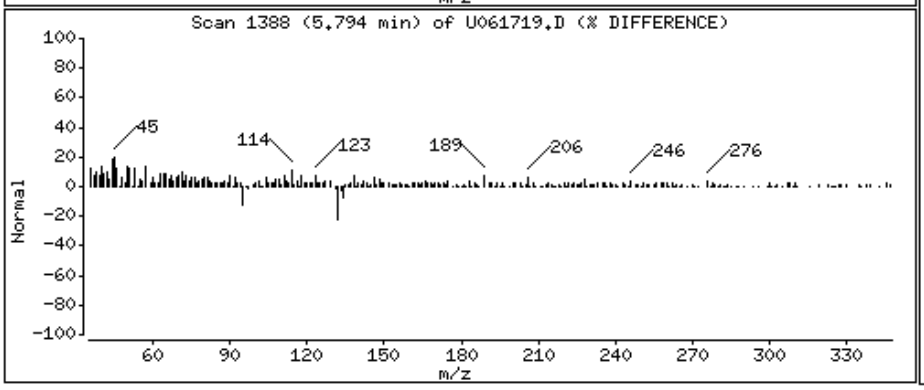
Column phase: DB624 Column diameter: 0.18

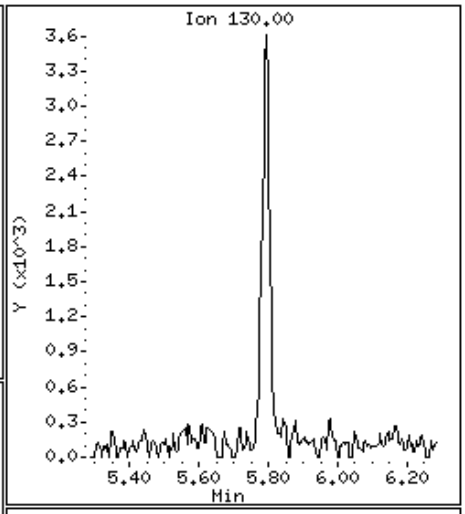
38 Trichloroethene Concentration: 1.14 ug/l

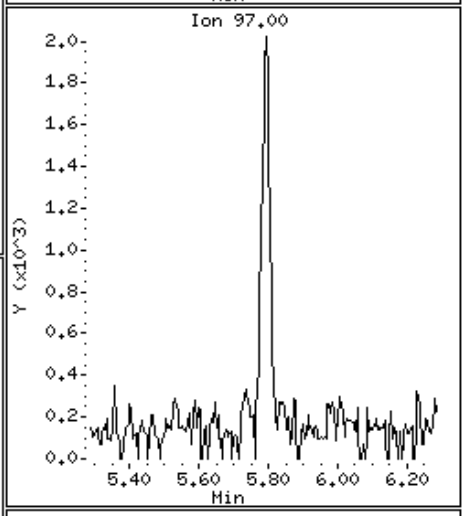


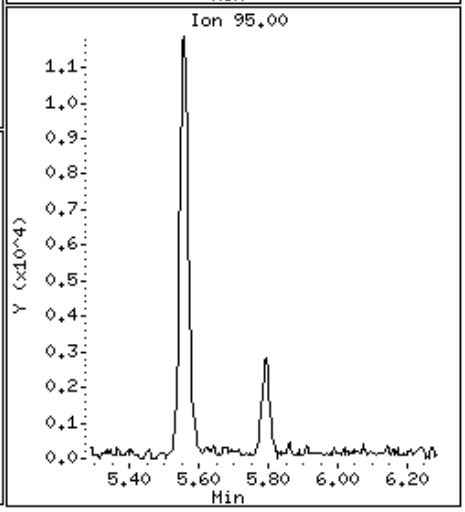



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061719.D
Inj Date  : 17-JUN-2023 18:03
InstruID  : VOA9.i
LabSampID : HS23061096-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061720.D  Page 1
Report Date: 20-Jun-2023 15:43

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061720.D
Lab Smp Id: HS23061096-08  Client Smp ID: HS23061096-08
Inj Date  : 17-JUN-2023 18:26
Operator  : PC  Inst ID: VOA9.i
Smp Info  : HS23061096-08;HS23061096-08;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\8260C.m
Meth Date : 20-Jun-2023 15:42 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.815 | 4.819 | (1.000) | 518636 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.751 | 4.751 | (0.987) | 224613 | 51.6069 | 51.60 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.059) | 267140 | 56.8038 | 56.80 |
| * 36 1,4-Difluorobenzene | 114 | 5.554 | 5.557 | (1.000) | 712999 | 50.0000 | |
| * 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 638956 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.922 | 6.926 | (0.846) | 801210 | 55.4033 | 55.40 |
| $ 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 269402 | 47.2321 | 47.23 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 316254 | 50.0000 | |

01196658

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061720.D

Page 1

Date : 17-JUN-2023 18:26

Client ID: HS23061096-08

Instrument: VOA9.i

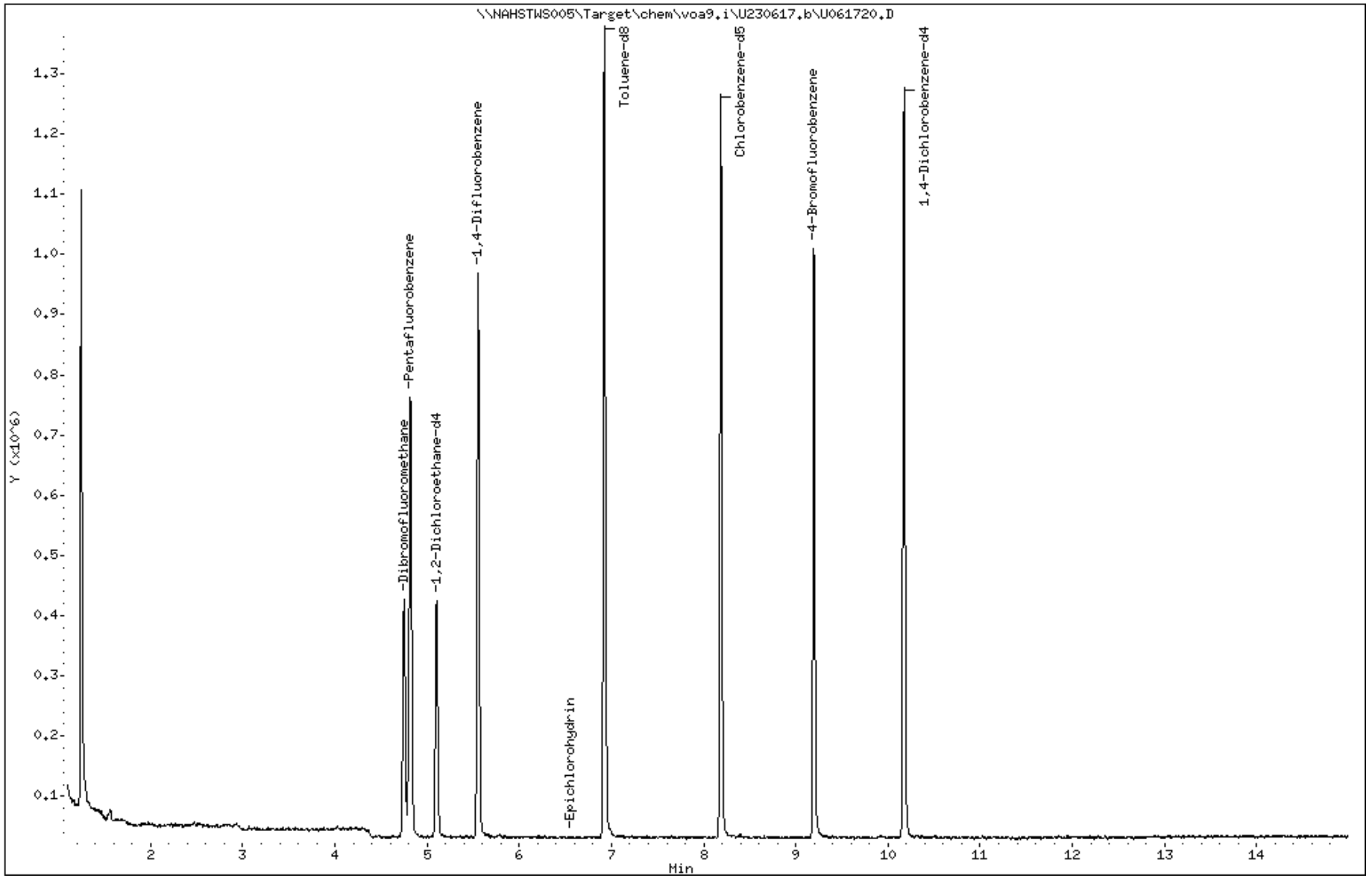
Sample Info: HS23061096-08;HS23061096-08;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061720.D
Inj Date  : 17-JUN-2023 18:26
InstruID  : VOA9.i
LabSampID : HS23061096-08

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061721.D  Page 1
Report Date: 20-Jun-2023 15:43

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061721.D
Lab Smp Id: HS23061096-09  Client Smp ID: HS23061096-09
Inj Date  : 17-JUN-2023 18:48
Operator  : PC  Inst ID: VOA9.i
Smp Info  : HS23061096-09;HS23061096-09;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\8260C.m
Meth Date : 20-Jun-2023 15:42 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.819 | 4.819 | (1.000) | 494766 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.752 | 4.751 | (0.986) | 218753 | 52.6919 | 52.69 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.058) | 259209 | 57.7882 | 57.78 |
| * 36 1,4-Difluorobenzene | 114 | 5.554 | 5.557 | (1.000) | 683147 | 50.0000 | |
| * 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 629175 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.922 | 6.926 | (0.846) | 770669 | 54.1198 | 54.11 |
| $ 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 273941 | 48.8041 | 48.80 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 318636 | 50.0000 | |

01196661

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061721.D



Date : 17-JUN-2023 18:48

Client ID: HS23061096-09

Instrument: VOA9.i

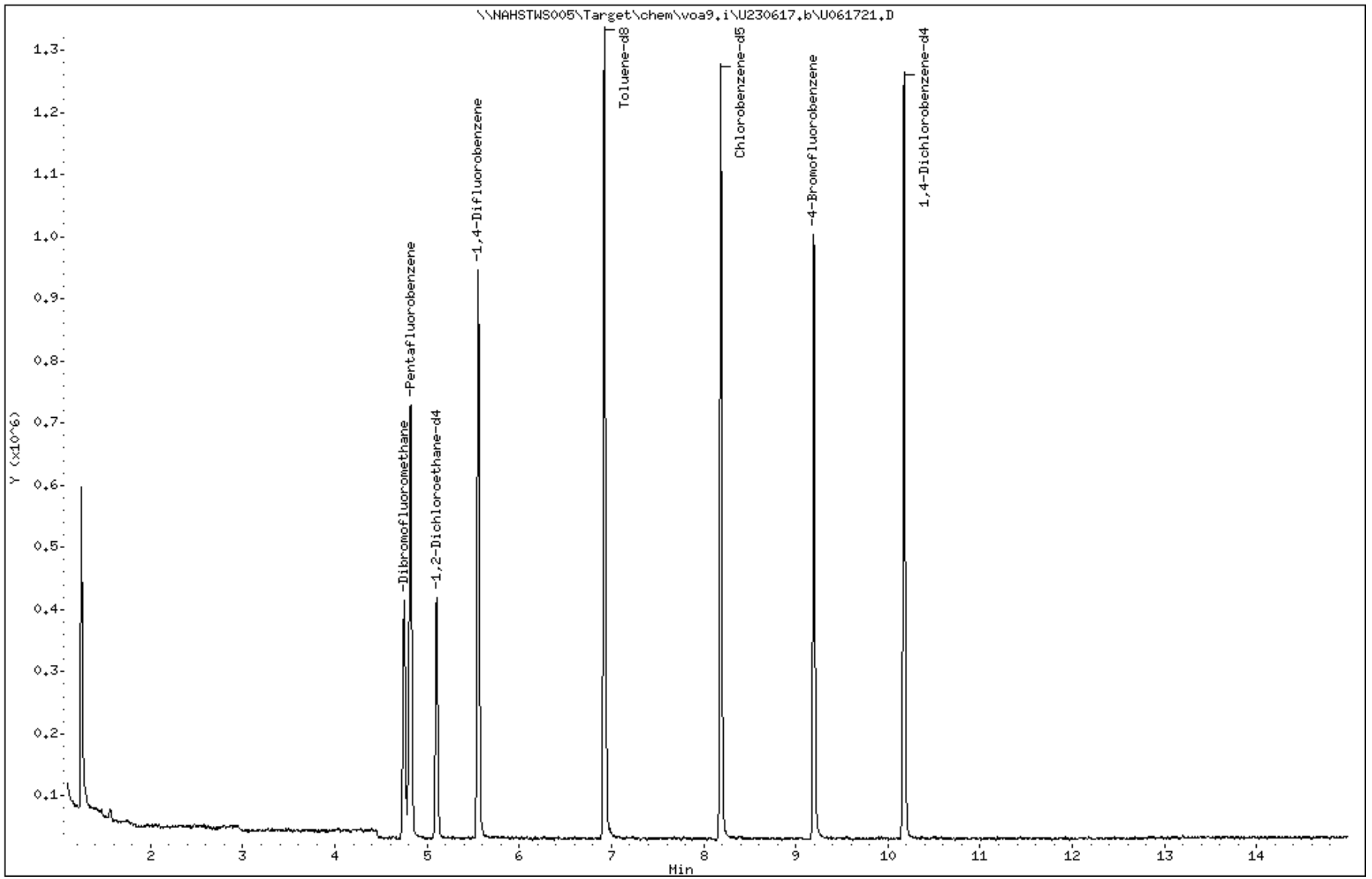
Sample Info: HS23061096-09;HS23061096-09;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061721.D
Inj Date  : 17-JUN-2023 18:48
InstruID  : VOA9.i
LabSampID : HS23061096-09

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061725.D  Page 1
Report Date: 20-Jun-2023 15:43

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061725.D
Lab Smp Id: HS23061096-07  Client Smp ID: HS23061096-07
Inj Date  : 17-JUN-2023 20:18
Operator  : PC  Inst ID: VOA9.i
Smp Info  : HS23061096-07;HS23061096-07;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\8260C.m
Meth Date : 20-Jun-2023 15:42 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | | QUANT SIG | | | | | CONCENTRATIONS ON-COLUMN | FINAL |
|---|---|---|---|---|---|---|---|---|
| Compounds | | MASS | RT | EXP RT | REL RT | RESPONSE | ( ug/l) | ( ug/l) |
| * | 1 Pentafluorobenzene | 168 | 4.815 | 4.819 | (1.000) | 518141 | 50.0000 | |
| | 27 cis-1,2-Dichloroethene | 96 | 4.197 | 4.200 | (0.872) | 73668 | 14.3967 | 14.39 |
| $ | 30 Dibromofluoromethane | 113 | 4.751 | 4.751 | (0.987) | 225421 | 51.8435 | 51.84 |
| | 33 1,2-Dichloroethane | 62 | 5.179 | 5.179 | (0.933) | 35995 | 5.85576 | 5.85 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.059) | 266266 | 56.6704 | 56.67 |
| * | 36 1,4-Difluorobenzene | 114 | 5.554 | 5.557 | (1.000) | 710199 | 50.0000 | |
| | 37 Benzene | 78 | 5.141 | 5.141 | (0.926) | 14954 | 0.87382 | 0.87(a) |
| | 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.043) | 2159861 | 435.441 | 435.44(A) |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 634105 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.926 | (0.846) | 789750 | 55.0286 | 55.02 |
| $ | 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 264080 | 46.6421 | 46.64 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 306704 | 50.0000 | |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 73668 | 14.3967 | 14.39 |
| | 138 Freon TF | 101 | 2.333 | 2.341 | (0.485) | 13494 | 3.87772 | 3.87(a) |

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.

01196665

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061725.D



Date : 17-JUN-2023 20:18

Client ID: HS23061096-07

Instrument: VOA9.i

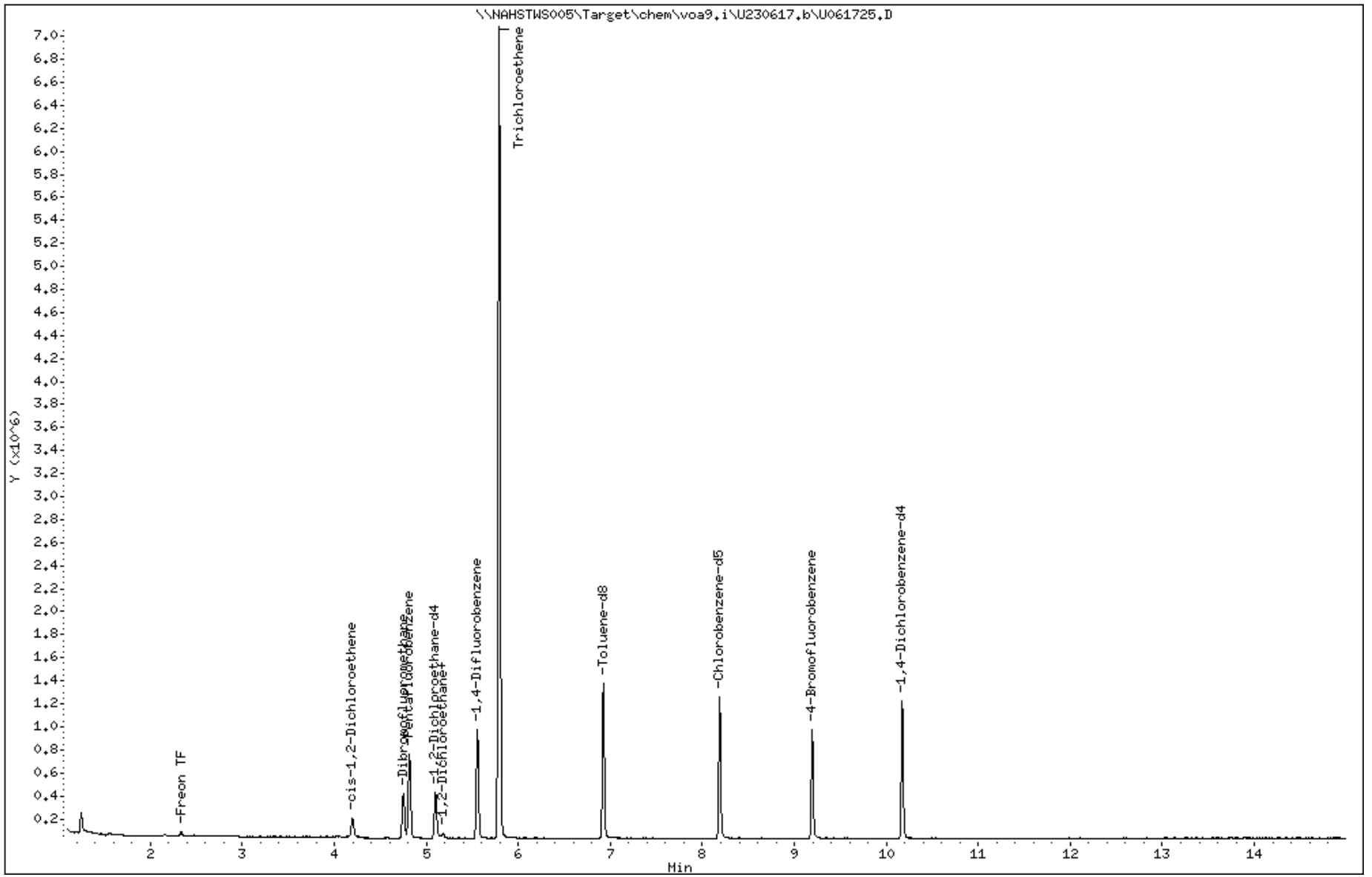
Sample Info: HS23061096-07;HS23061096-07;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061725.D

Date : 17-JUN-2023 20:18

Client ID: HS23061096-07

Instrument: VOA9.i

Sample Info: HS23061096-07;HS23061096-07;;;

Purge Volume: 5.0

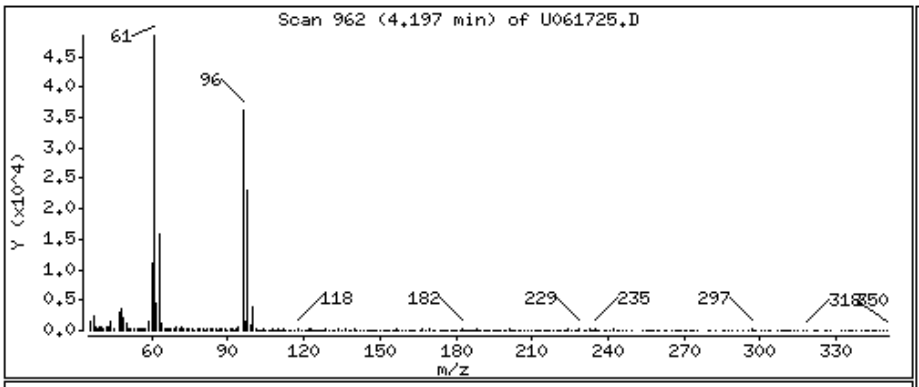
Operator: PC

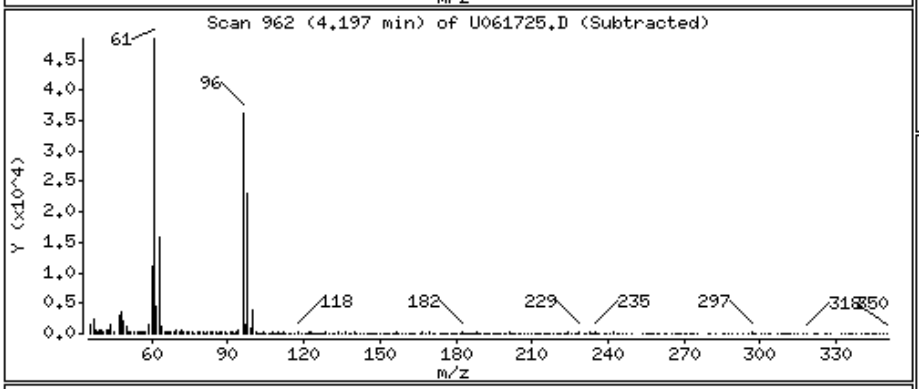
Column phase: DB624

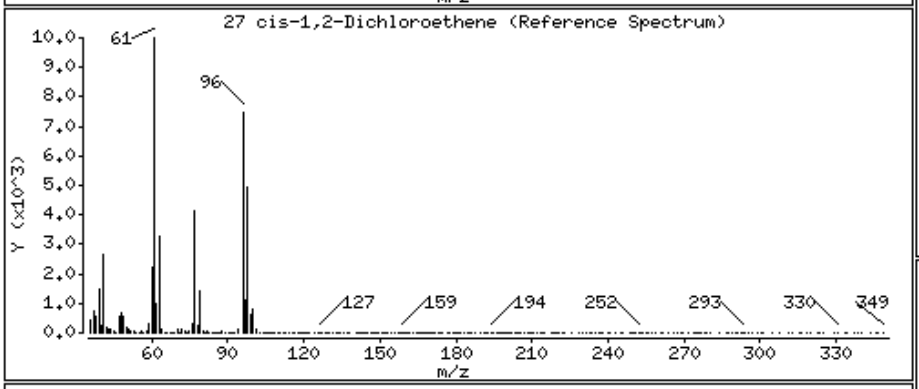
Column diameter: 0.18

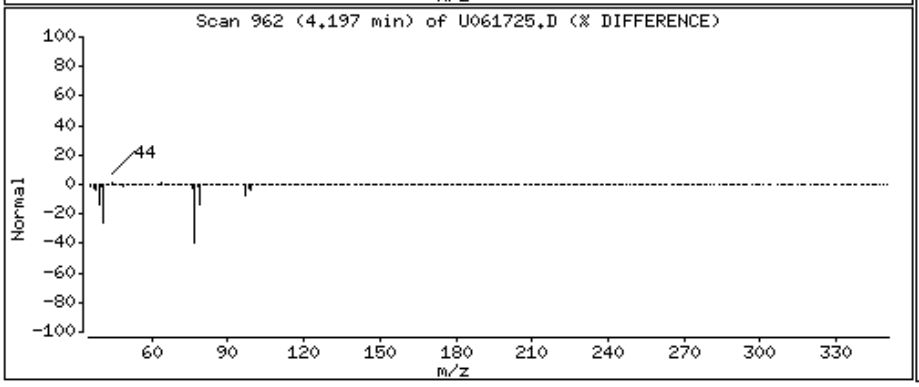
27 cis-1,2-Dichloroethene

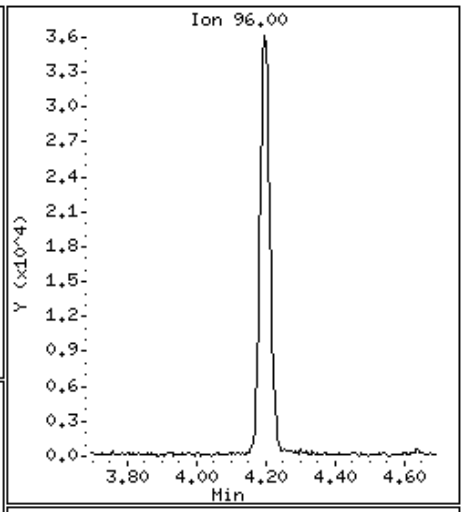
Concentration: 14.39 ug/l

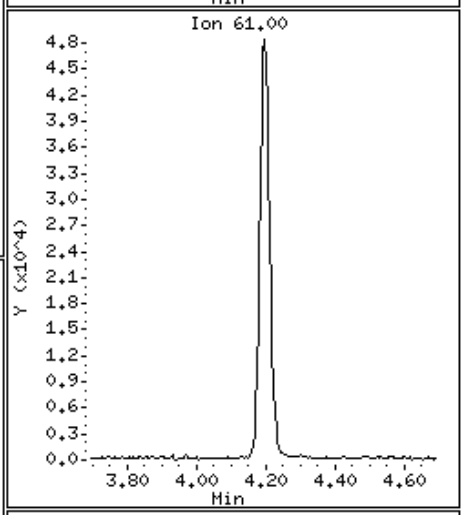


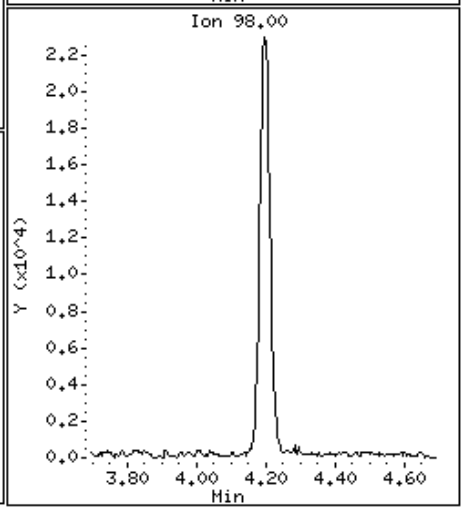



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061725.D

Date : 17-JUN-2023 20:18

Client ID: HS23061096-07

Instrument: VOA9.i

Sample Info: HS23061096-07;HS23061096-07;;;

Purge Volume: 5.0

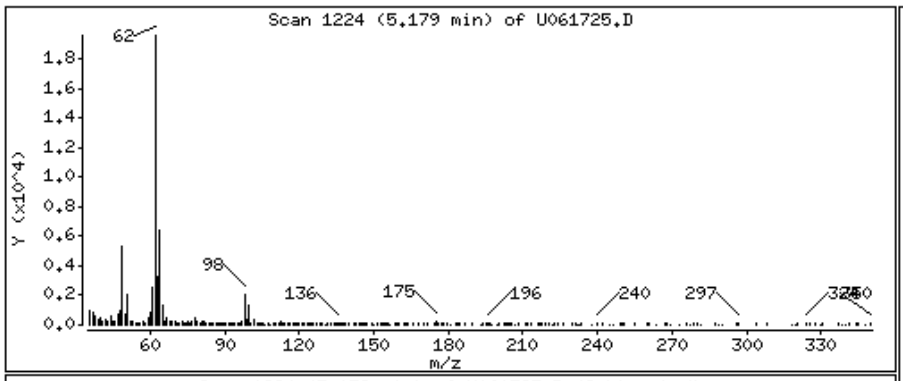
Operator: PC

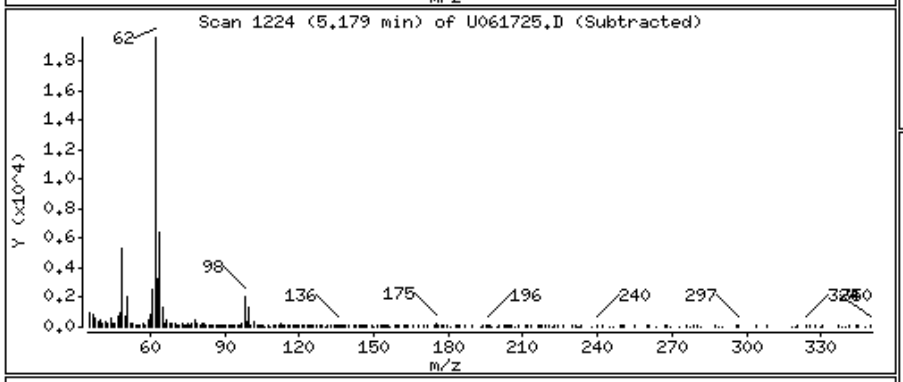
Column phase: DB624

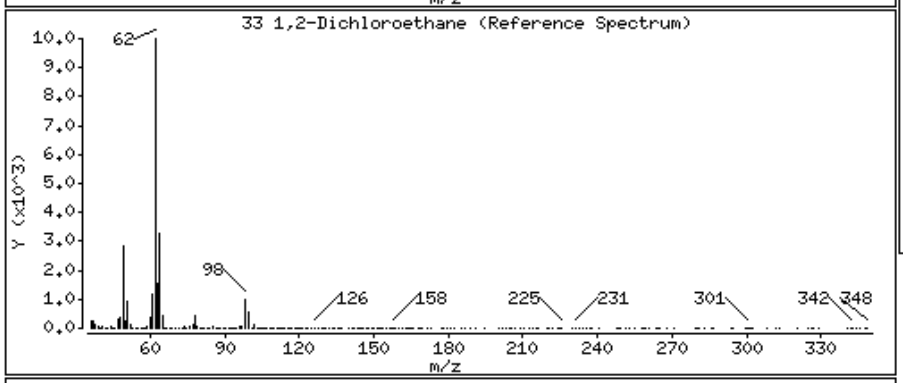
Column diameter: 0.18

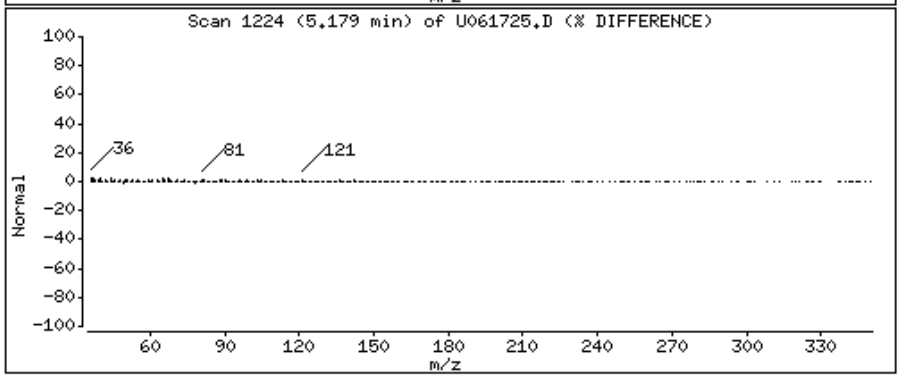
33 1,2-Dichloroethane

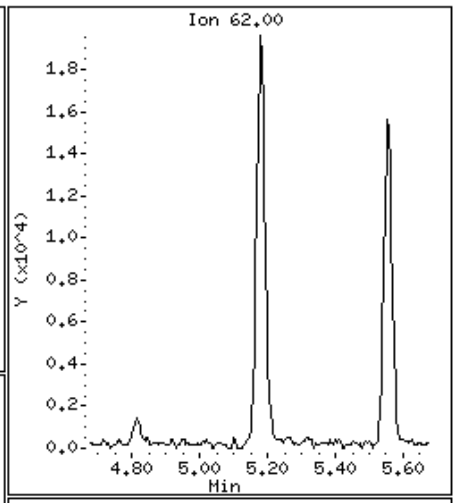
Concentration: 5.85 ug/l

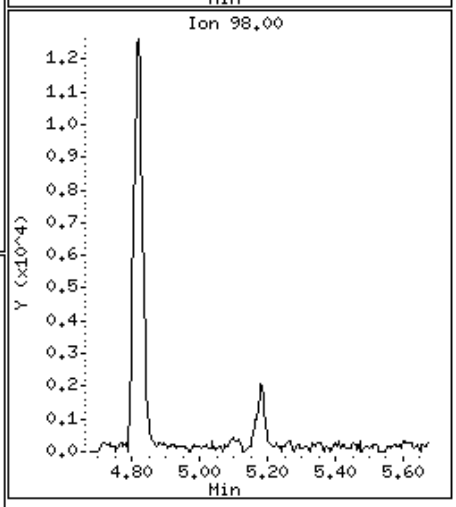


Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061725.D Page 4

Date : 17-JUN-2023 20:18

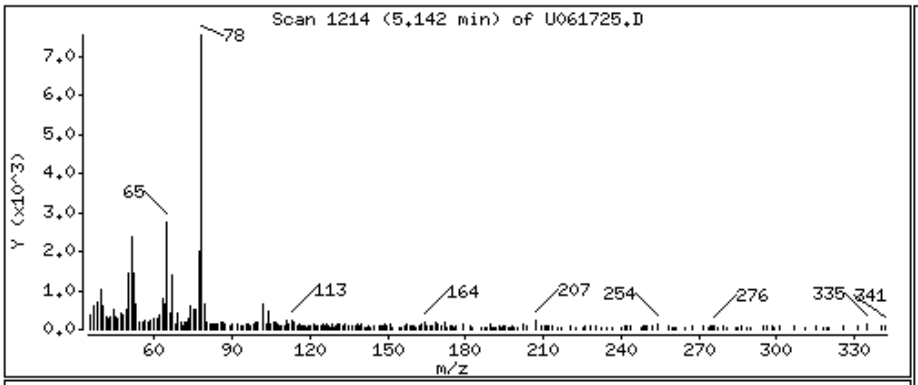
Client ID: HS23061096-07 Instrument: VOA9.i

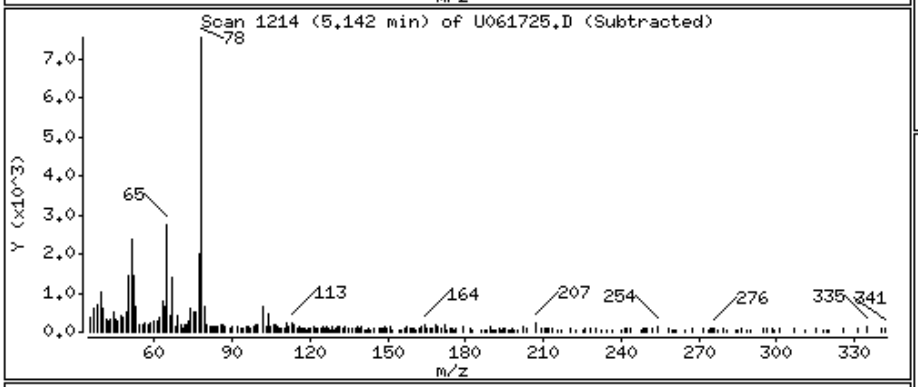
Sample Info: HS23061096-07;HS23061096-07;;;

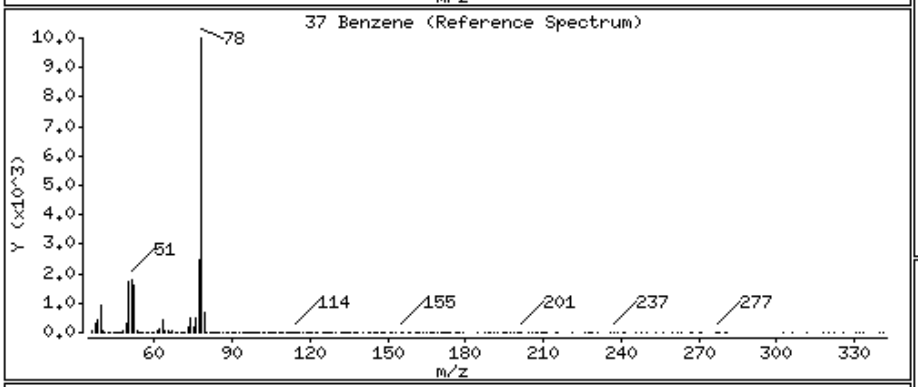
Purge Volume: 5.0 Operator: PC

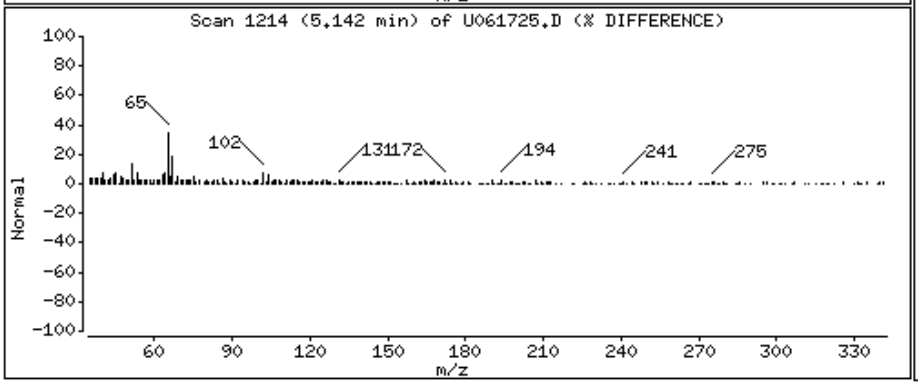
Column phase: DB624 Column diameter: 0.18

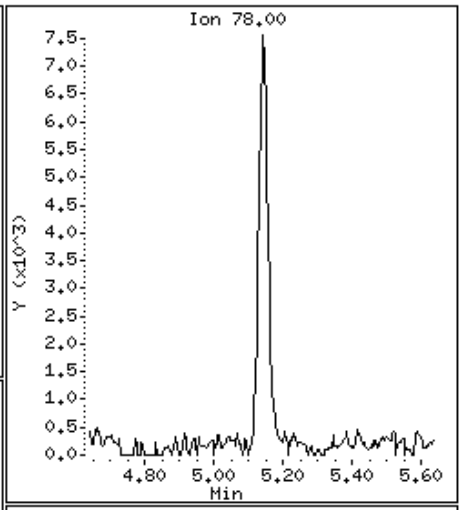
37 Benzene Concentration: 0.87 ug/l

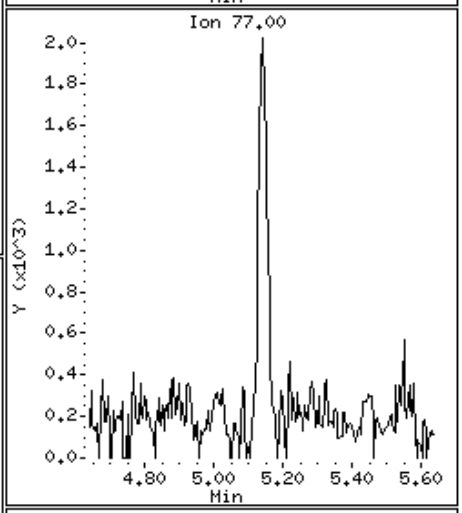


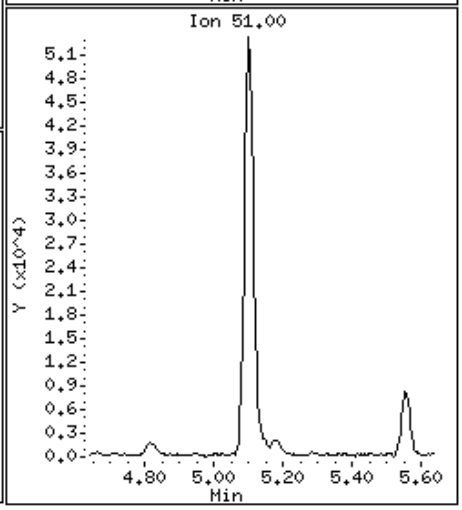



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061725.D Page 5

Date : 17-JUN-2023 20:18

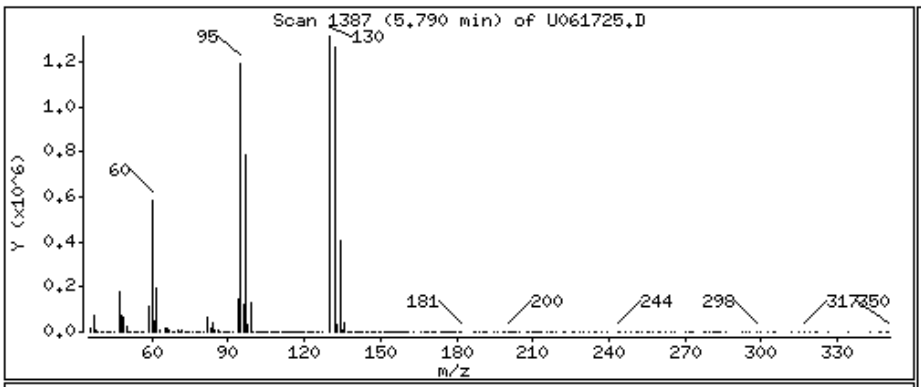
Client ID: HS23061096-07 Instrument: VOA9.i

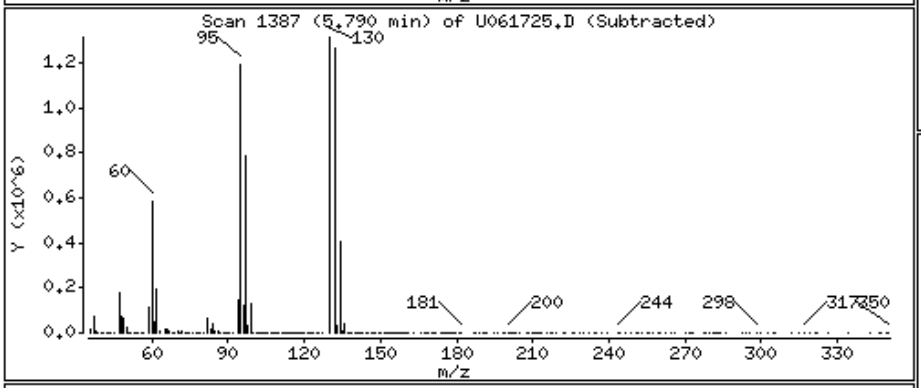
Sample Info: HS23061096-07;HS23061096-07;;;

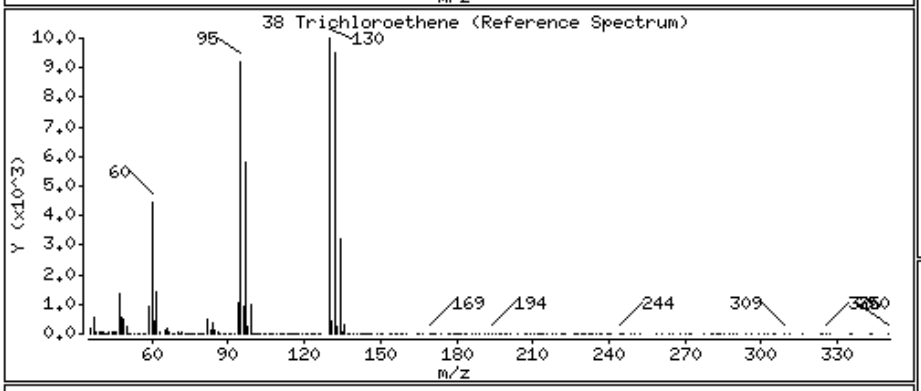
Purge Volume: 5.0 Operator: PC

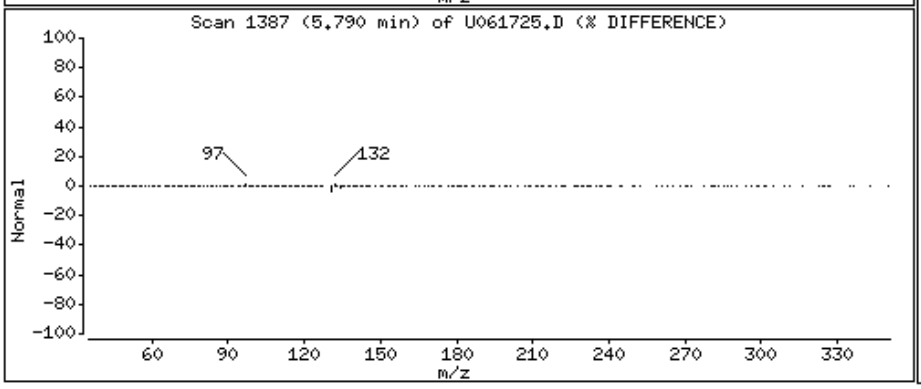
Column phase: DB624 Column diameter: 0.18

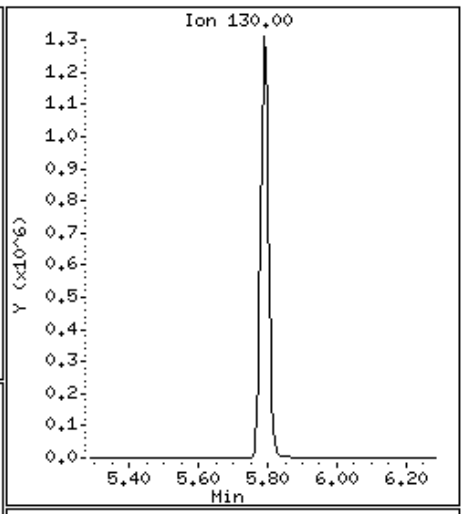
38 Trichloroethene Concentration: 435.44 ug/l

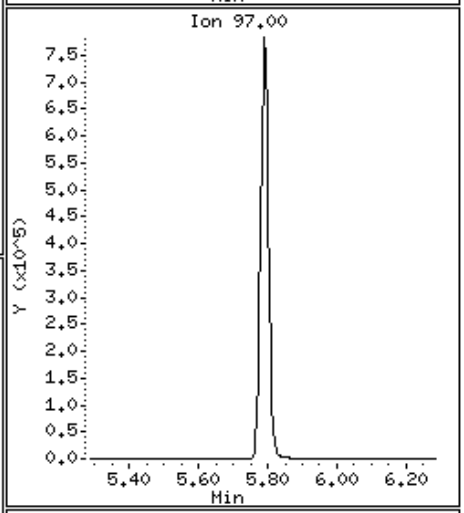


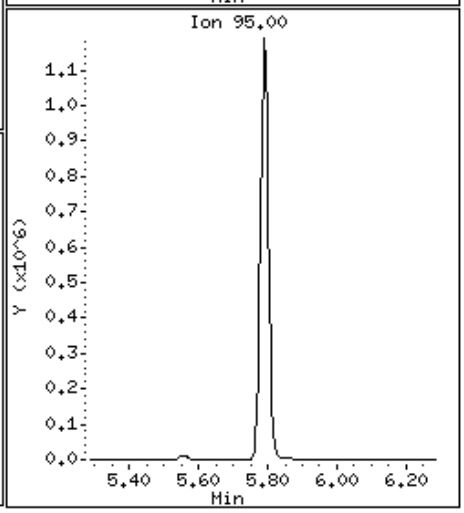



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061725.D Page 6

Date : 17-JUN-2023 20:18

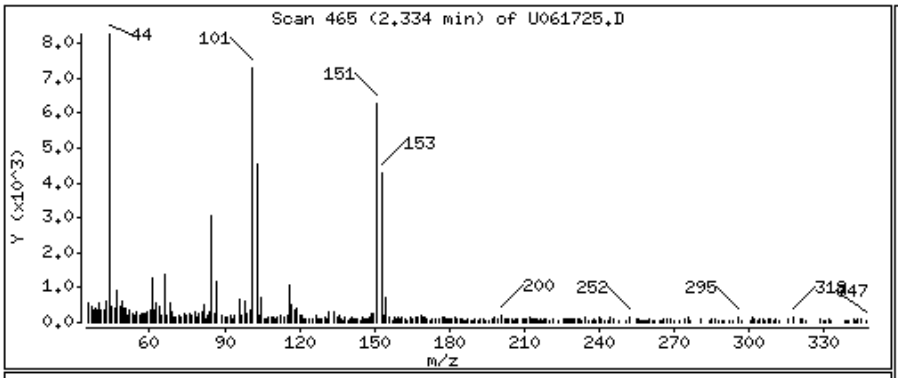
Client ID: HS23061096-07 Instrument: VOA9.i

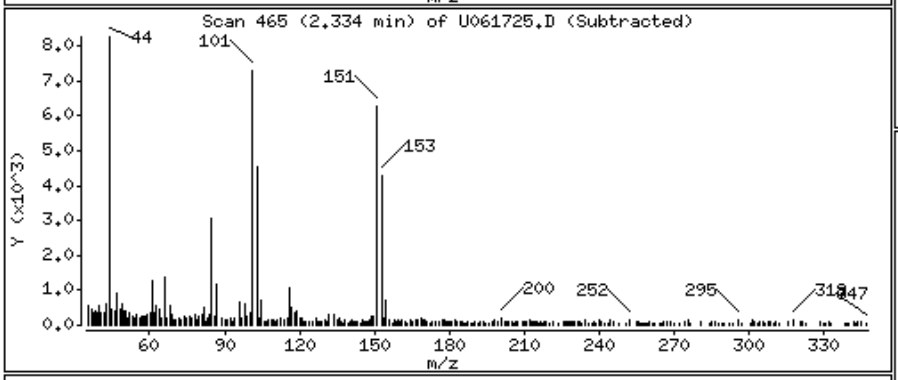
Sample Info: HS23061096-07;HS23061096-07;;;

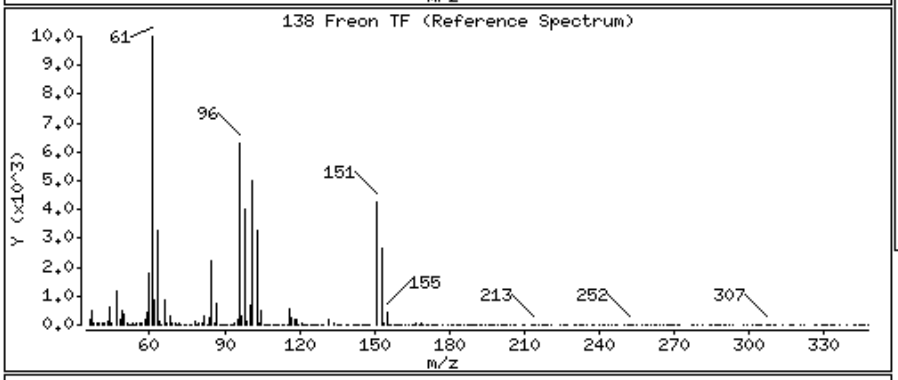
Purge Volume: 5.0 Operator: PC

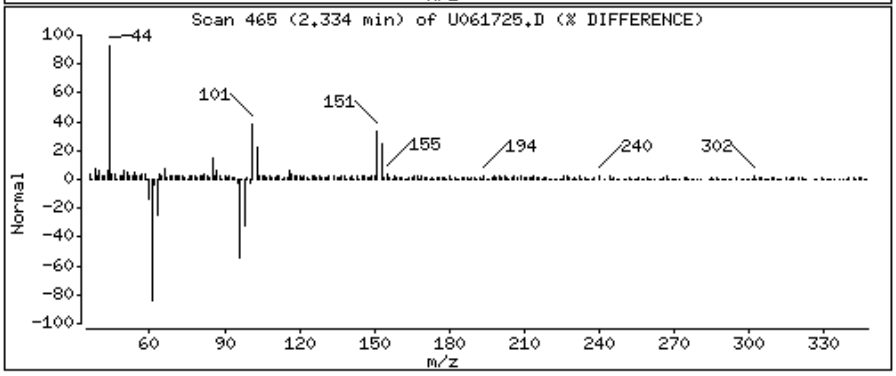
Column phase: DB624 Column diameter: 0.18

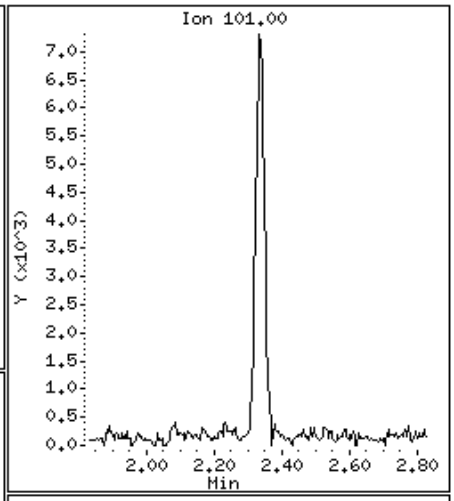
138 Freon TF Concentration: 3.87 ug/l

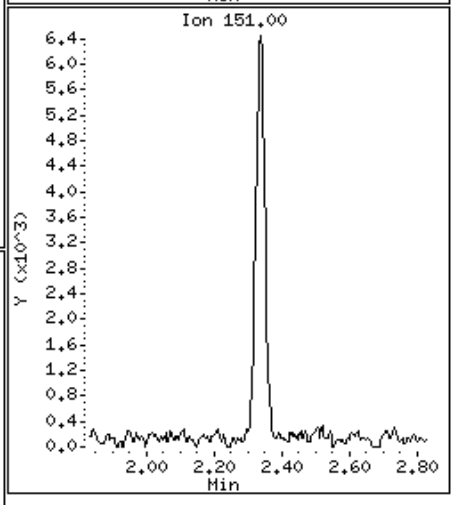


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061725.D
Inj Date  : 17-JUN-2023 20:18
InstruID  : VOA9.i
LabSampID : HS23061096-07

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061727.D  Page 1
Report Date: 20-Jun-2023 15:43

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061727.D
Lab Smp Id: HS23061096-01  Client Smp ID: HS23061096-01
Inj Date  : 17-JUN-2023 21:03
Operator  : PC  Inst ID: VOA9.i
Smp Info  : HS23061096-01;HS23061096-01;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\8260C.m
Meth Date : 20-Jun-2023 15:42 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | | QUANT SIG | | | | | CONCENTRATIONS ON-COLUMN | FINAL |
|---|---|---|---|---|---|---|---|---|
| Compounds | | MASS | RT | EXP RT | REL RT | RESPONSE | ( ug/l) | ( ug/l) |
| * | 1 Pentafluorobenzene | 168 | 4.815 | 4.819 | (1.000) | 495888 | 50.0000 | |
| | 5 Vinyl Chloride | 62 | 1.374 | 1.381 | (0.285) | 3457 | 0.65907 | 0.65(a) |
| | 27 cis-1,2-Dichloroethene | 96 | 4.197 | 4.200 | (0.872) | 228013 | 46.5595 | 46.55 |
| | 28 Chloroform | 83 | 4.575 | 4.575 | (0.950) | 7732 | 0.95495 | 0.95(a) |
| $ | 30 Dibromofluoromethane | 113 | 4.748 | 4.751 | (0.986) | 218334 | 52.4707 | 52.47 |
| | 33 1,2-Dichloroethane | 62 | 5.179 | 5.179 | (0.933) | 14528 | 2.45748 | 2.45(a) |
| | 34 Carbon Tetrachloride | 117 | 4.909 | 4.913 | (0.884) | 72290 | 15.7218 | 15.72 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.059) | 263160 | 58.5451 | 58.54 |
| * | 36 1,4-Difluorobenzene | 114 | 5.554 | 5.557 | (1.000) | 683026 | 50.0000 | |
| | 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.043) | 2057925 | 431.395 | 431.39(A) |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 631383 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.926 | (0.846) | 773236 | 54.1102 | 54.11 |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 6667 | 1.59794 | 1.59(a) |
| $ | 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 268983 | 47.7337 | 47.73 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 311372 | 50.0000 | |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 228013 | 46.5595 | 46.55 |
| | 138 Freon TF | 101 | 2.326 | 2.341 | (0.483) | 19780678 | 5939.39 | 5939.38(A) |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

01196675

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061727.D



Date : 17-JUN-2023 21:03

Client ID: HS23061096-01

Instrument: VOA9.i

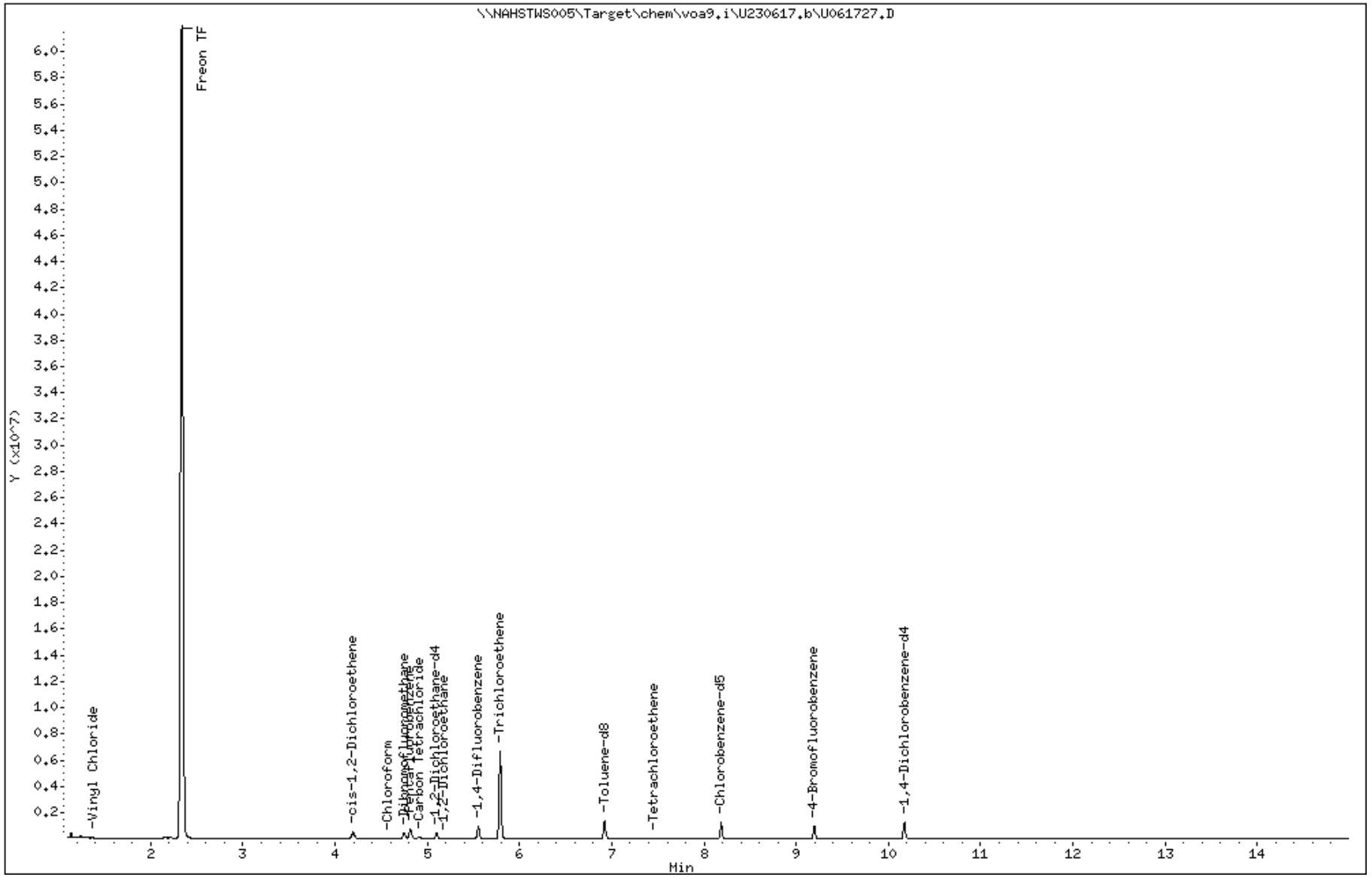
Sample Info: HS23061096-01;HS23061096-01;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061727.D

Date : 17-JUN-2023 21:03

Client ID: HS23061096-01

Instrument: VOA9.i

Sample Info: HS23061096-01;HS23061096-01;;;

Purge Volume: 5.0

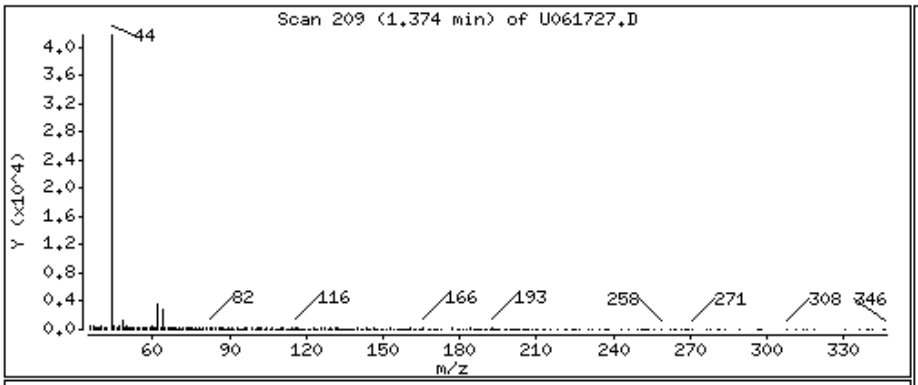
Operator: PC

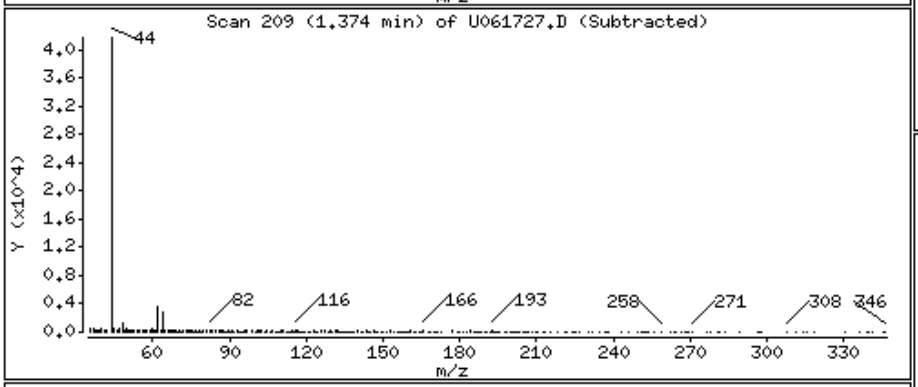
Column phase: DB624

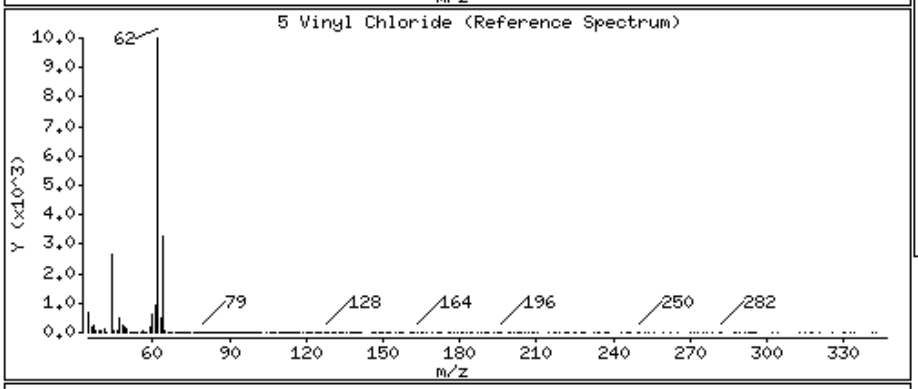
Column diameter: 0.18

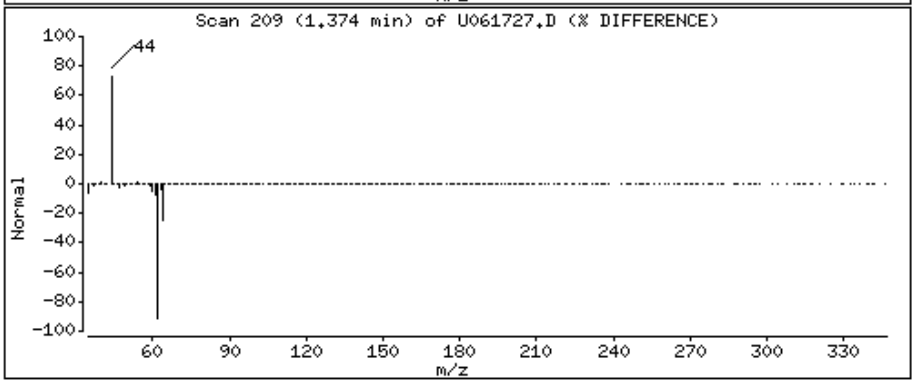
5 Vinyl Chloride

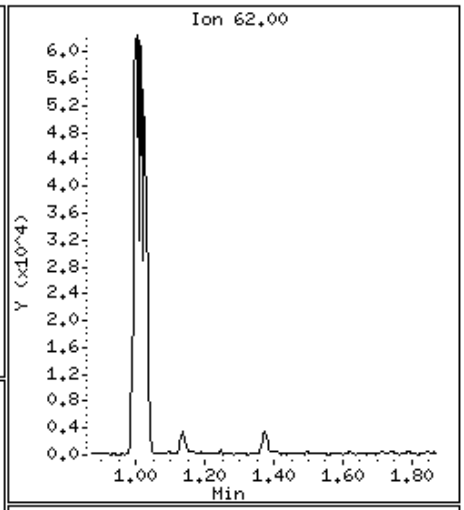
Concentration: 0.65 ug/l

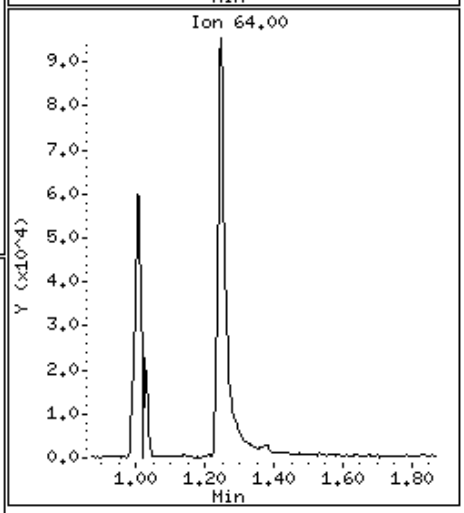


Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061727.D Page 3

Date : 17-JUN-2023 21:03

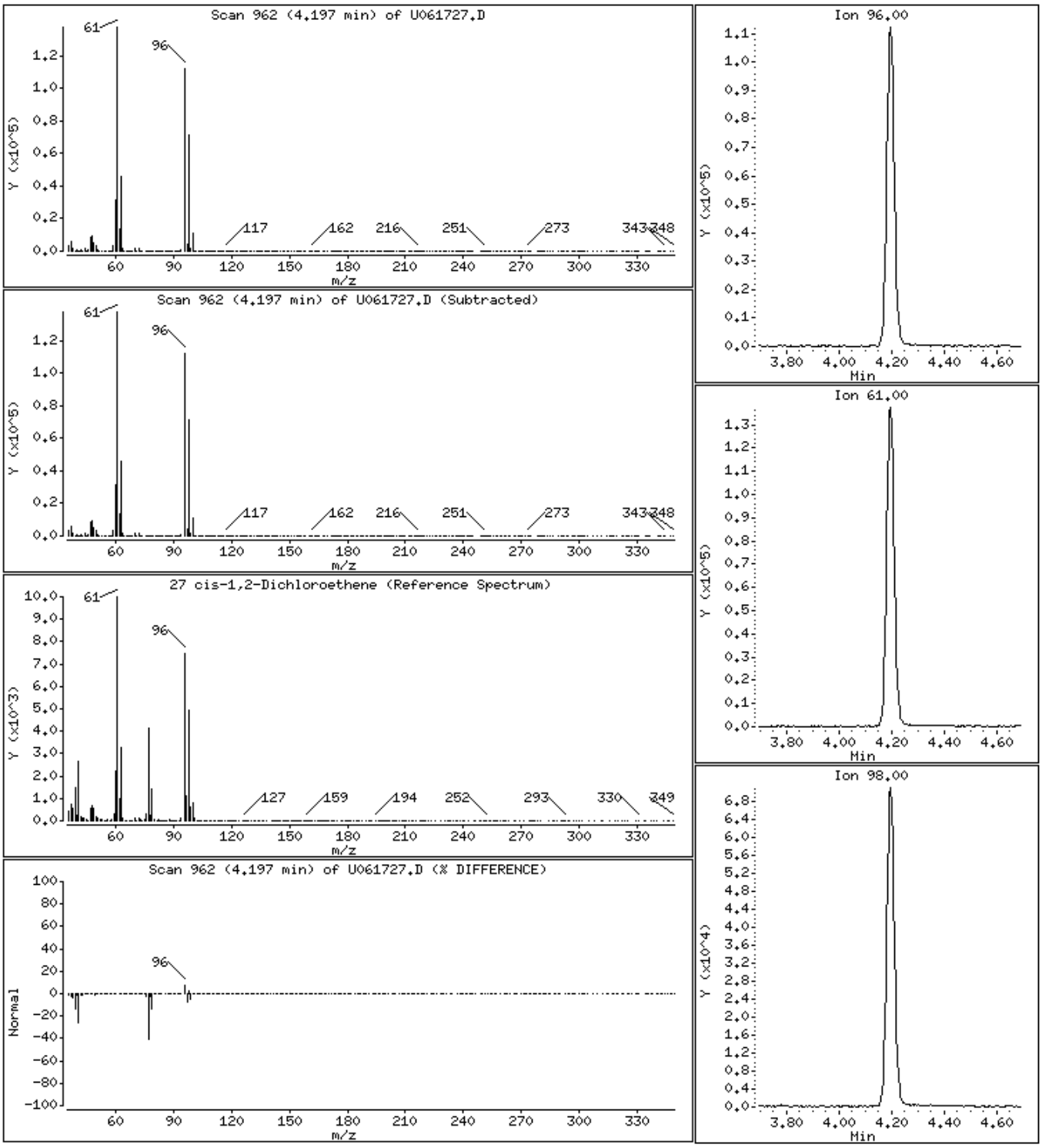
Client ID: HS23061096-01 Instrument: VOA9.i

Sample Info: HS23061096-01;HS23061096-01;;;

Purge Volume: 5.0 Operator: PC

Column phase: DB624 Column diameter: 0.18

27 cis-1,2-Dichloroethene Concentration: 46.55 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061727.D

Date : 17-JUN-2023 21:03

Client ID: HS23061096-01

Instrument: VOA9.i

Sample Info: HS23061096-01;HS23061096-01;;;

Purge Volume: 5.0

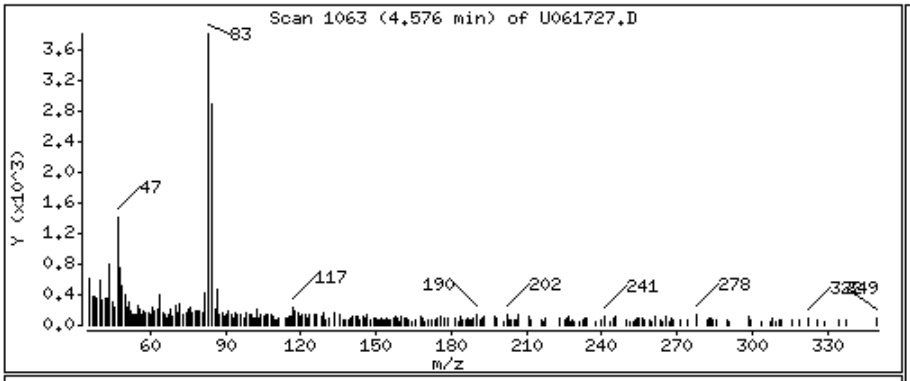
Operator: PC

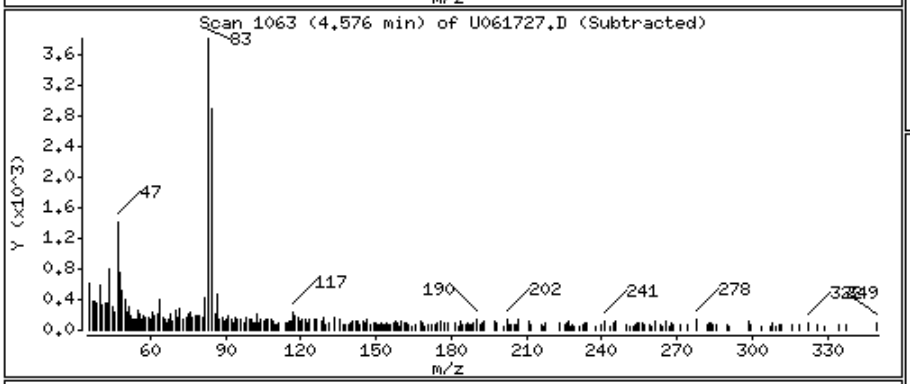
Column phase: DB624

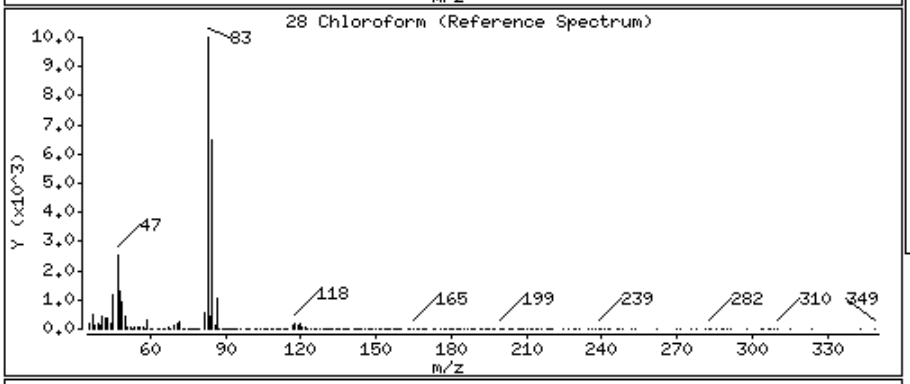
Column diameter: 0.18

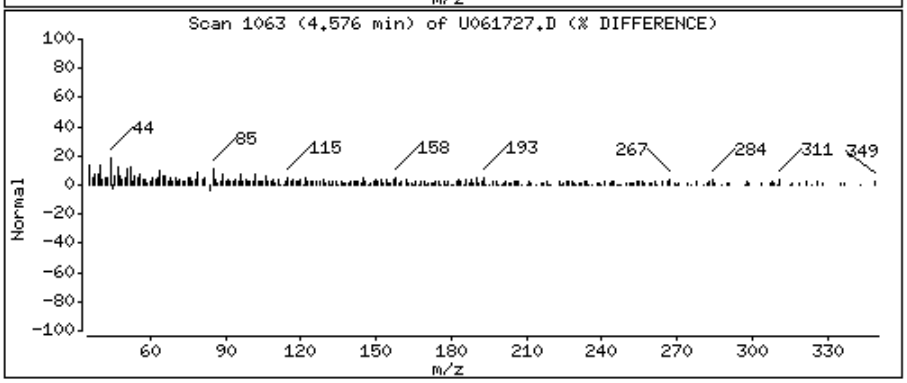
28 Chloroform

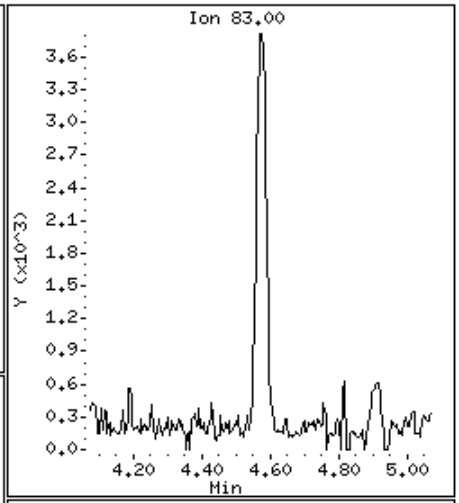
Concentration: 0.95 ug/l

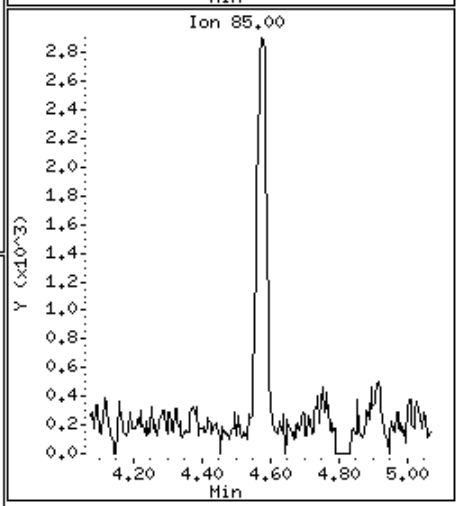


Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061727.D

Date : 17-JUN-2023 21:03

Client ID: HS23061096-01

Instrument: VOA9.i

Sample Info: HS23061096-01;HS23061096-01;;;

Purge Volume: 5.0

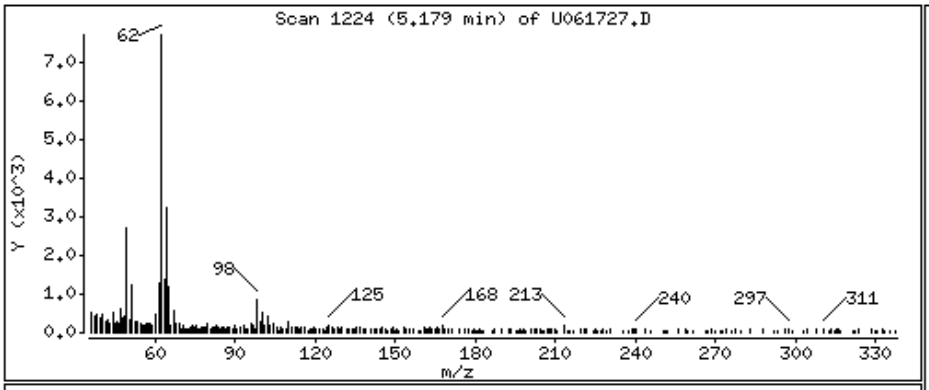
Operator: PC

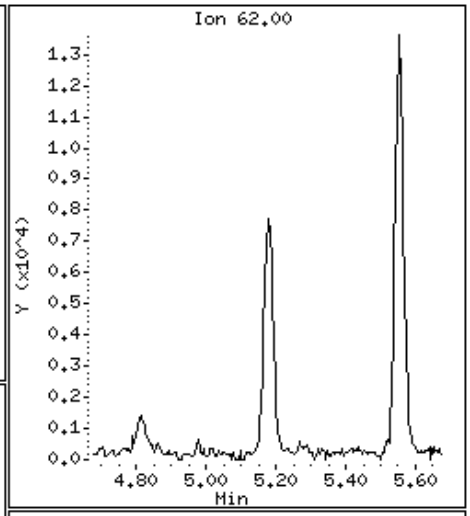
Column phase: DB624

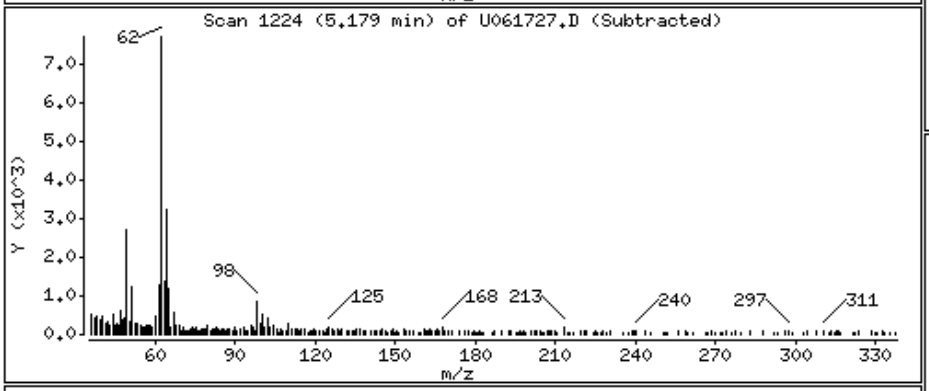
Column diameter: 0.18

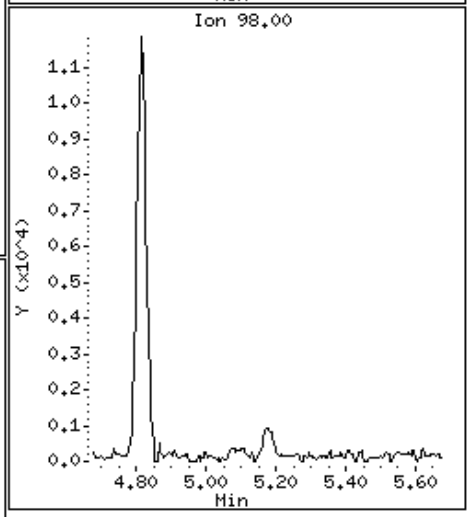
33 1,2-Dichloroethane

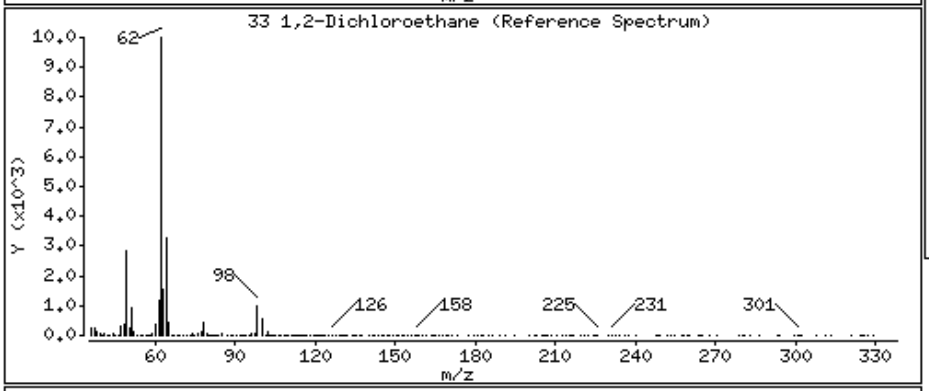
Concentration: 2.45 ug/l

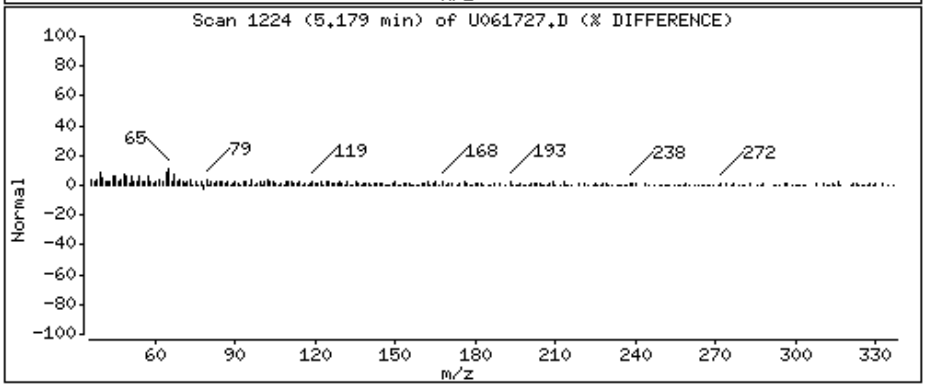


Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061727.D



Date : 17-JUN-2023 21:03

Client ID: HS23061096-01

Instrument: VOA9.i

Sample Info: HS23061096-01;HS23061096-01;;;

Purge Volume: 5.0

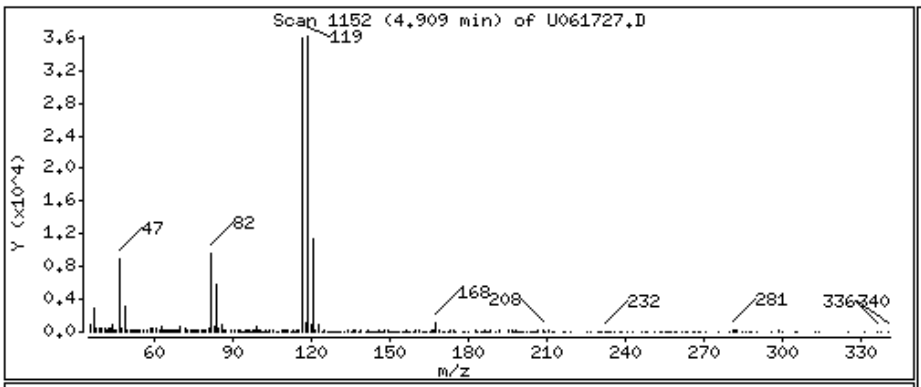
Operator: PC

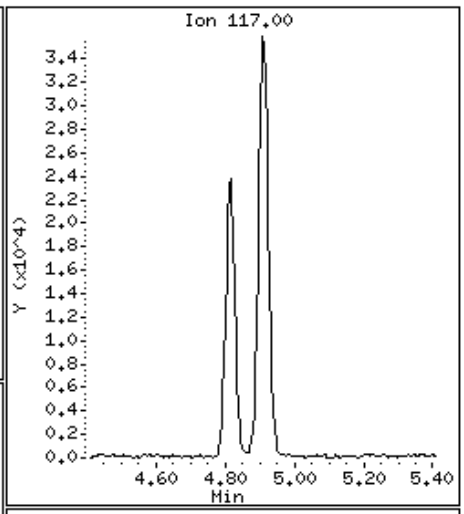
Column phase: DB624

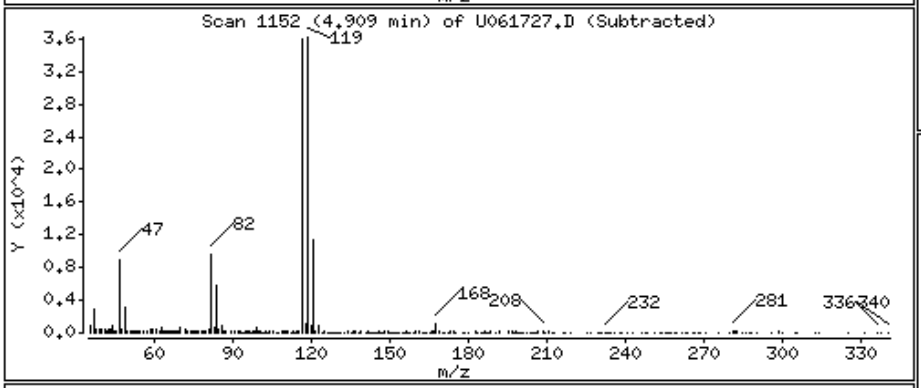
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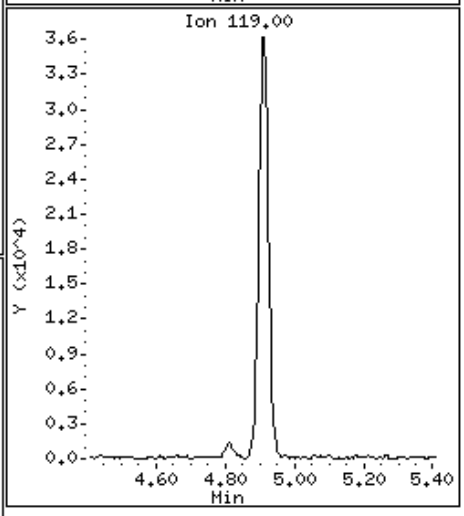
34 Carbon Tetrachloride

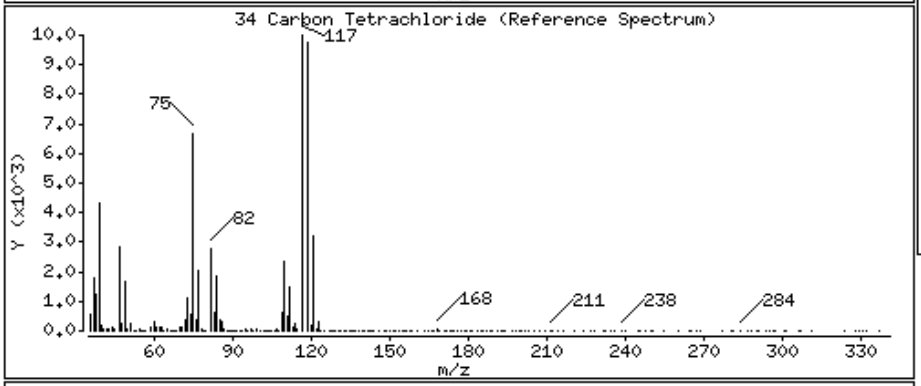
Concentration: 15.72 ug/l

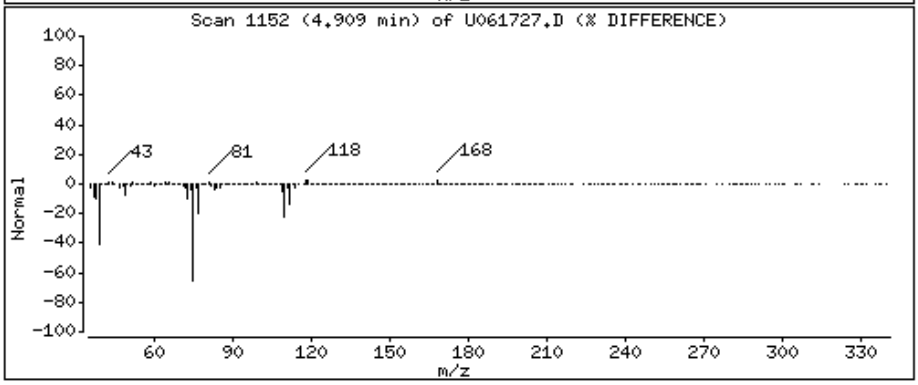


Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061727.D Page 7

Date : 17-JUN-2023 21:03

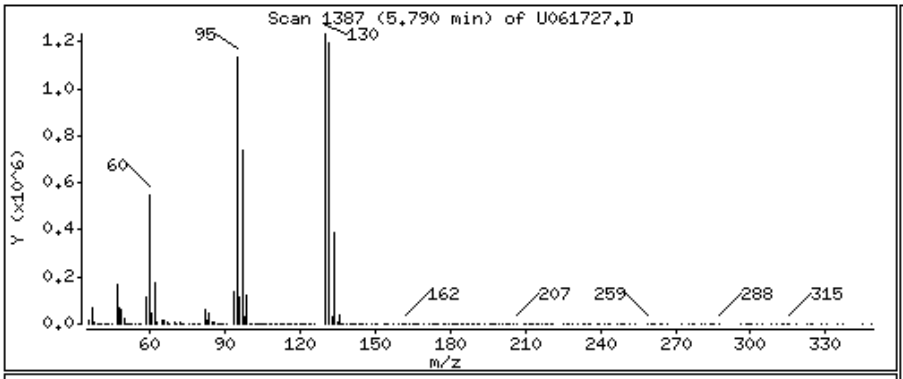
Client ID: HS23061096-01 Instrument: VOA9.i

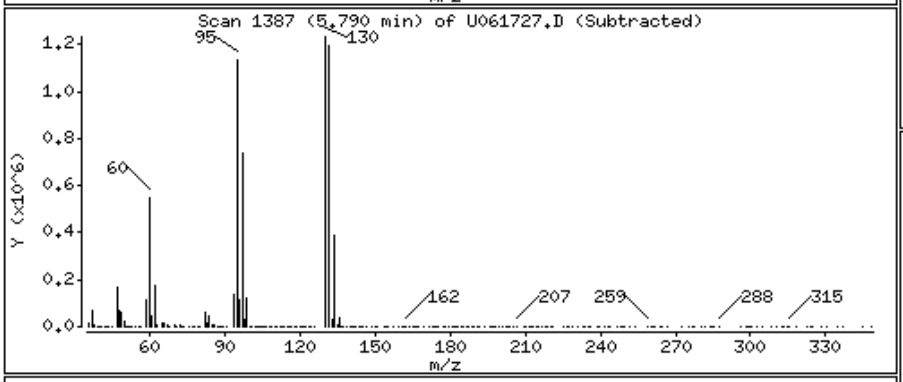
Sample Info: HS23061096-01;HS23061096-01;;;

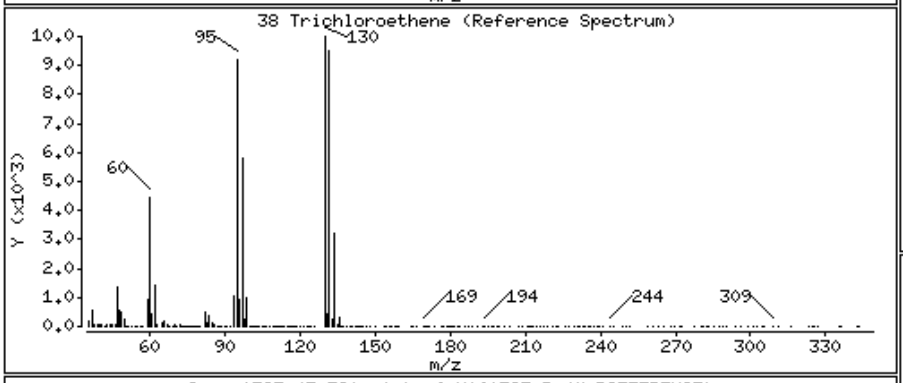
Purge Volume: 5.0 Operator: PC

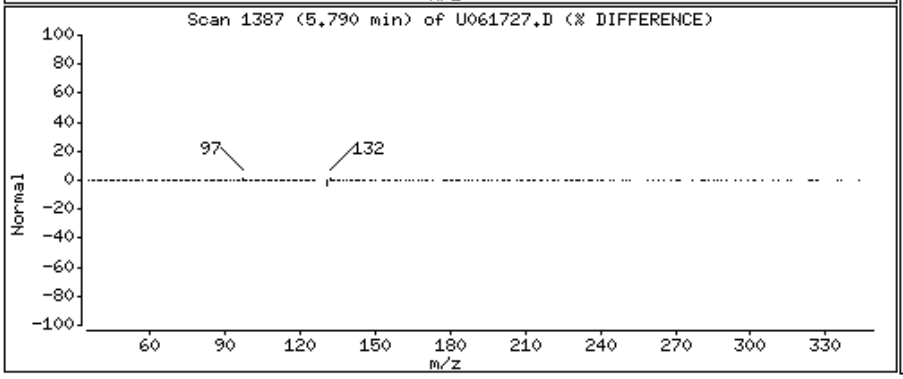
Column phase: DB624 Column diameter: 0.18

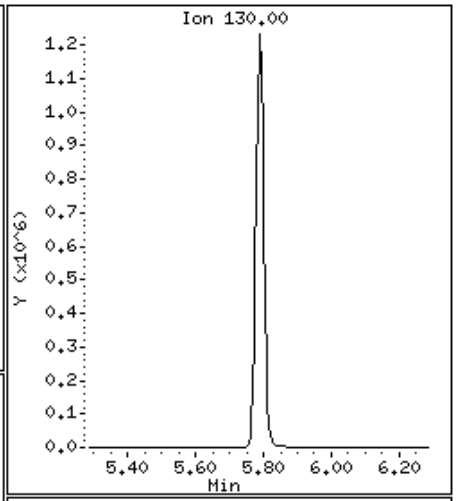
38 Trichloroethene Concentration: 431.39 ug/l

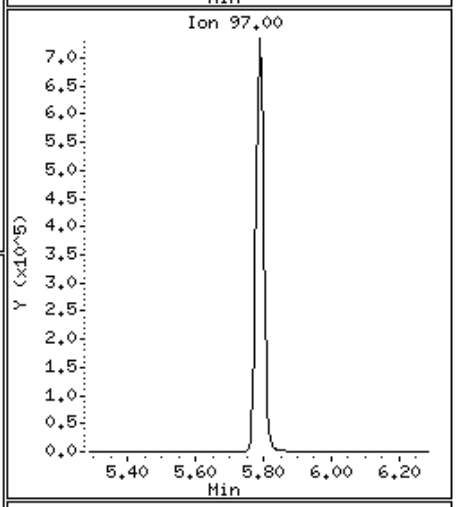


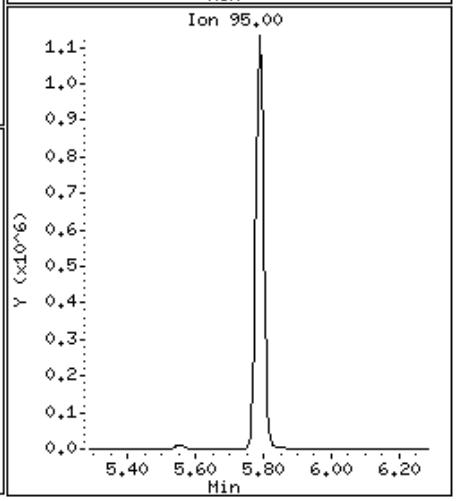



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061727.D Page 8

Date : 17-JUN-2023 21:03

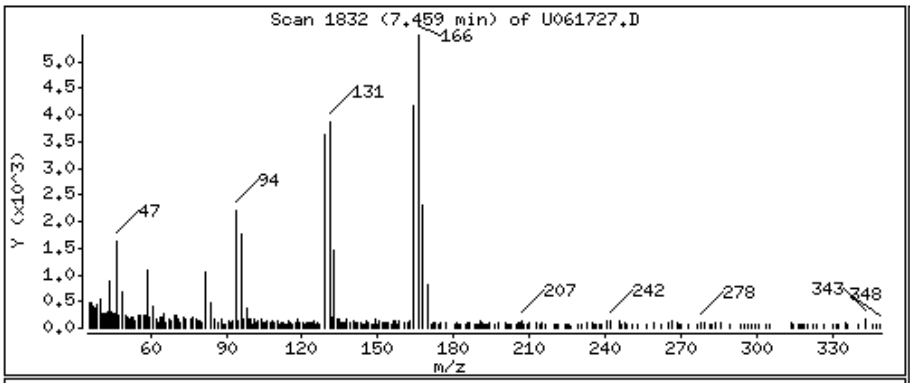
Client ID: HS23061096-01 Instrument: VOA9.i

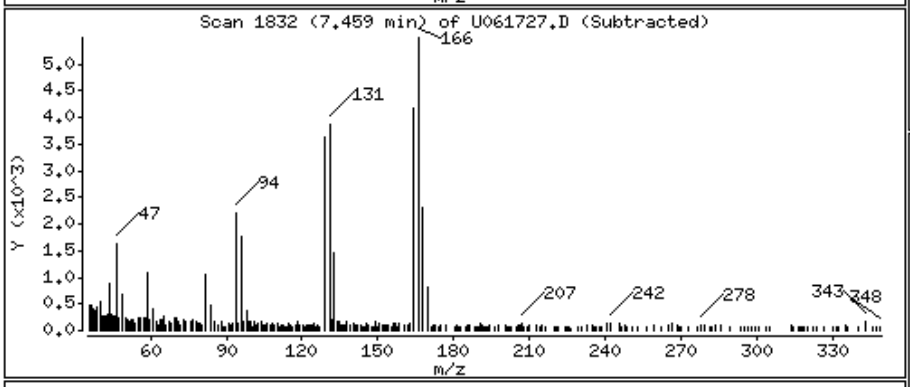
Sample Info: HS23061096-01;HS23061096-01;;;

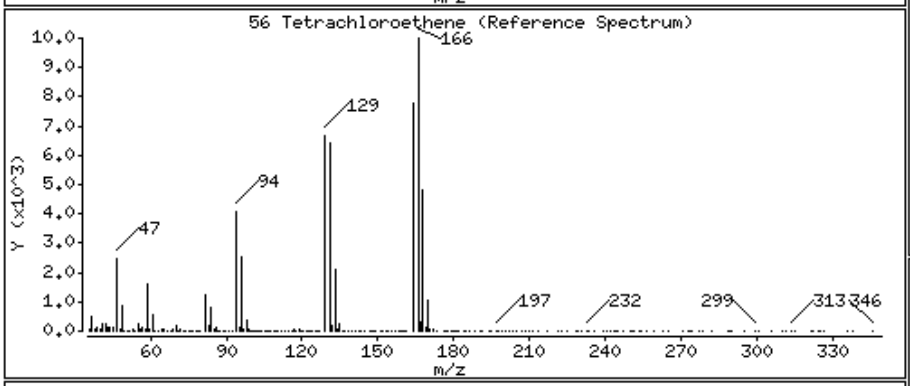
Purge Volume: 5.0 Operator: PC

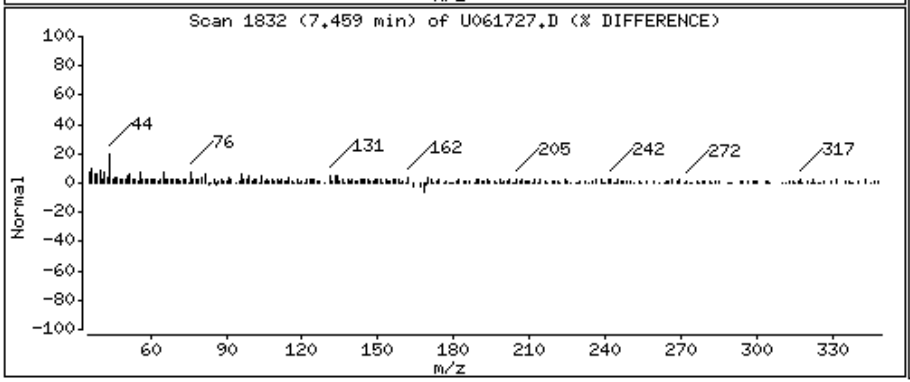
Column phase: DB624 Column diameter: 0.18

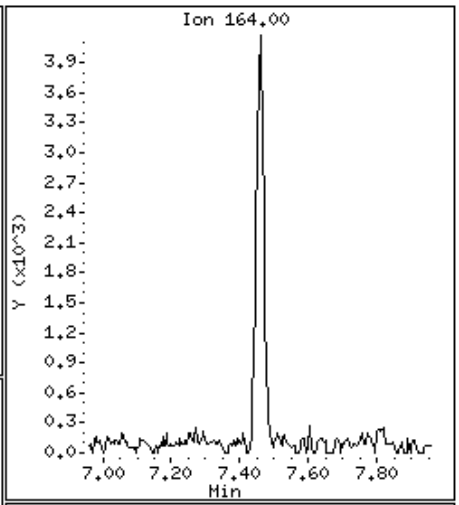
56 Tetrachloroethene Concentration: 1.59 ug/l

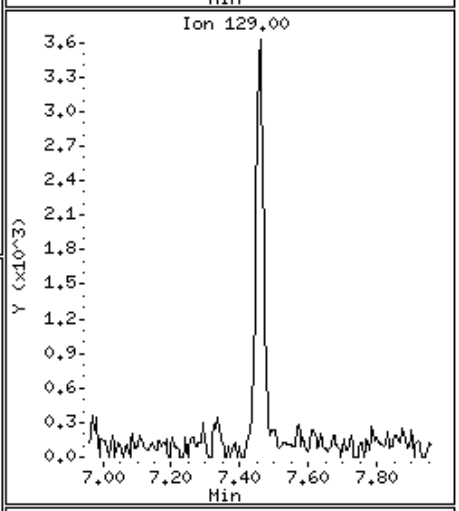


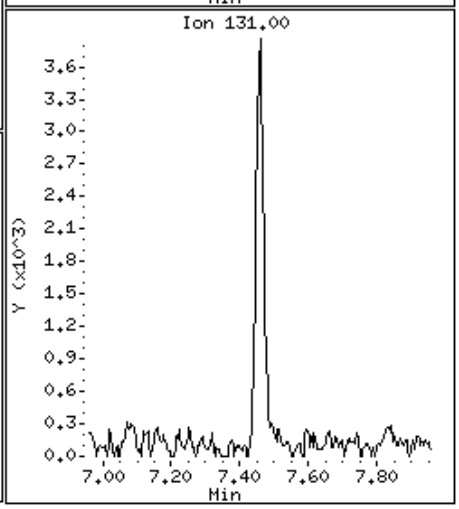



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061727.D Page 9

Date : 17-JUN-2023 21:03

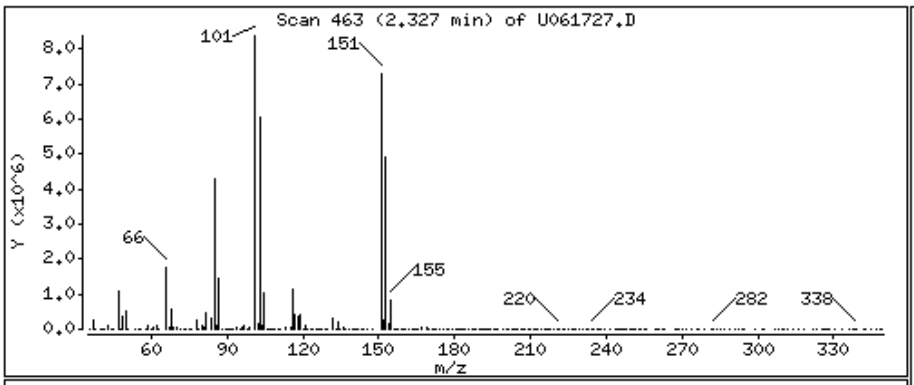
Client ID: HS23061096-01 Instrument: VOA9.i

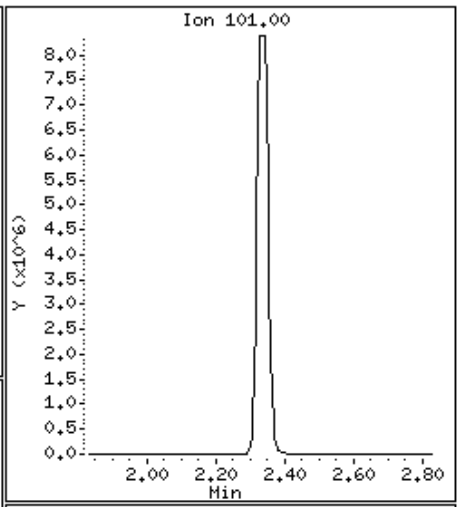
Sample Info: HS23061096-01;HS23061096-01;;;

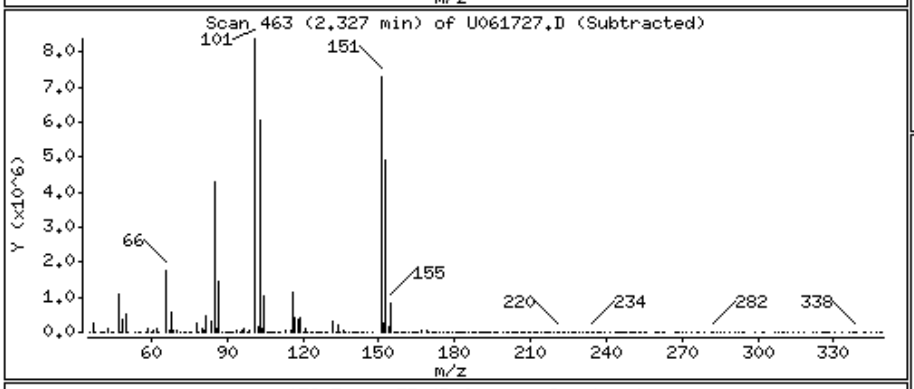
Purge Volume: 5.0 Operator: PC

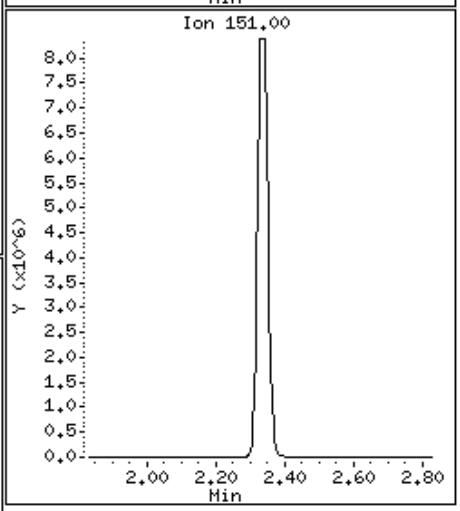
Column phase: DB624 Column diameter: 0.18

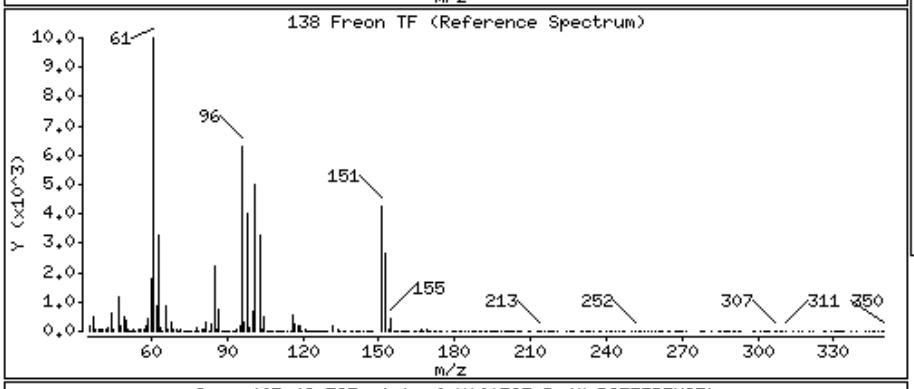
138 Freon TF Concentration: 5939.38 ug/l

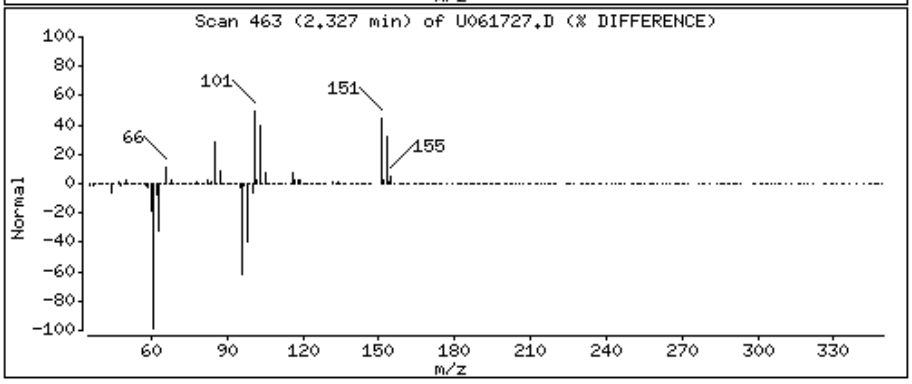


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061727.D
Inj Date  : 17-JUN-2023 21:03
InstruID  : VOA9.i
LabSampID : HS23061096-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061729.D  Page 1
Report Date: 20-Jun-2023 15:43

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061729.D
Lab Smp Id: HS23061096-04  Client Smp ID: HS23061096-04
Inj Date  : 17-JUN-2023 21:48
Operator  : PC  Inst ID: VOA9.i
Smp Info  : HS23061096-04;HS23061096-04;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\8260C.m
Meth Date : 20-Jun-2023 15:42 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * | 1 Pentafluorobenzene | 168 | 4.815 | 4.819 | (1.000) | 510895 | 50.0000 | |
| | 5 Vinyl Chloride | 62 | 1.374 | 1.381 | (0.285) | 2218 | 0.41044 | 0.41(a) |
| | 27 cis-1,2-Dichloroethene | 96 | 4.193 | 4.200 | (0.871) | 48027 | 9.51888 | 9.51 |
| | 28 Chloroform | 83 | 4.572 | 4.575 | (0.949) | 64157 | 7.69107 | 7.69 |
| $ | 30 Dibromofluoromethane | 113 | 4.748 | 4.751 | (0.986) | 221941 | 51.7666 | 51.76 |
| | 33 1,2-Dichloroethane | 62 | 5.175 | 5.179 | (0.932) | 114317 | 18.7354 | 18.73 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.096 | 5.100 | (1.058) | 267331 | 57.7165 | 57.71 |
| * | 36 1,4-Difluorobenzene | 114 | 5.554 | 5.557 | (1.000) | 704966 | 50.0000 | |
| | 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.043) | 5685818 | 1154.80 | 1154.80(A) |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 637886 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.926 | (0.846) | 787693 | 54.5600 | 54.55 |
| $ | 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 271489 | 47.6864 | 47.68 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 319124 | 50.0000 | |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 48027 | 9.51888 | 9.51(a) |
| | 138 Freon TF | 101 | 2.330 | 2.341 | (0.484) | 200575 | 58.4560 | 58.45 |

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.

01196687

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061729.D



Date : 17-JUN-2023 21:48

Client ID: HS23061096-04

Instrument: VOA9.i

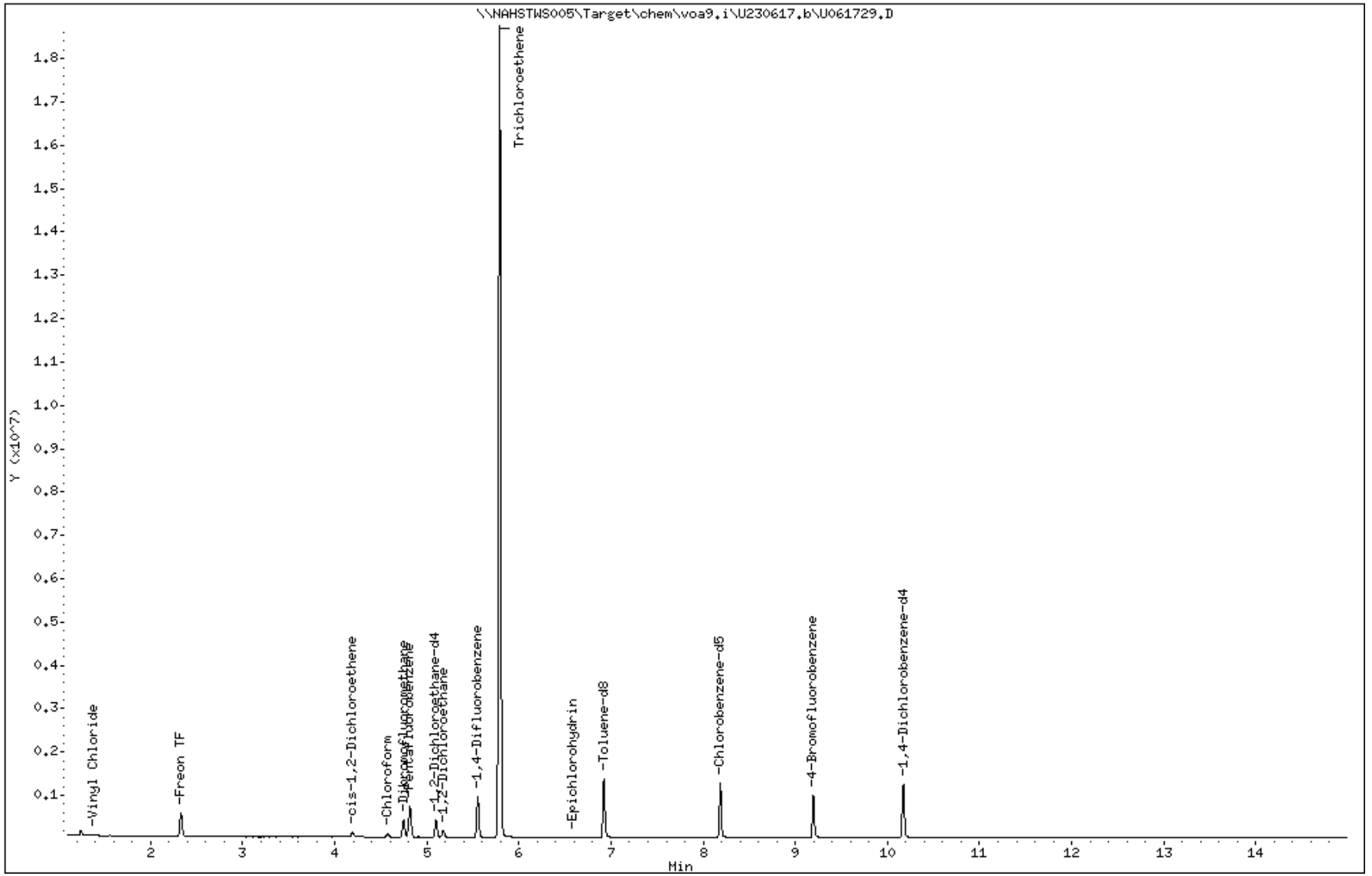
Sample Info: HS23061096-04;HS23061096-04;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061729.D

Date : 17-JUN-2023 21:48

Client ID: HS23061096-04

Instrument: VOA9.i

Sample Info: HS23061096-04;HS23061096-04;;;

Purge Volume: 5.0

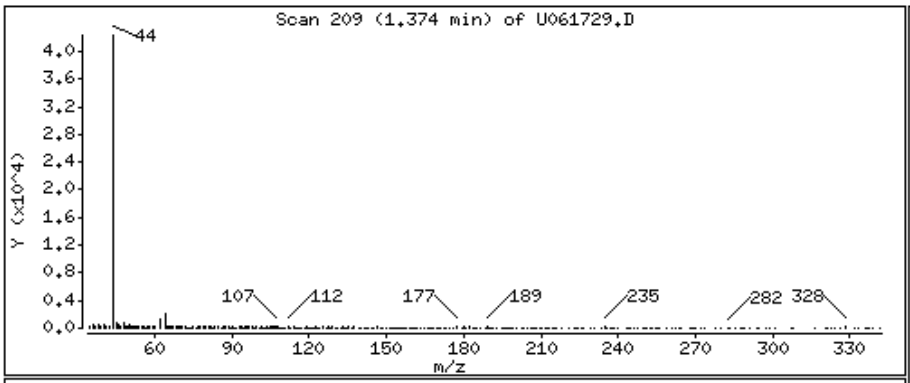
Operator: PC

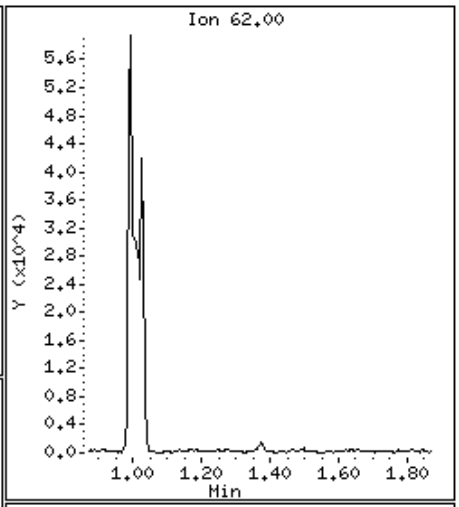
Column phase: DB624

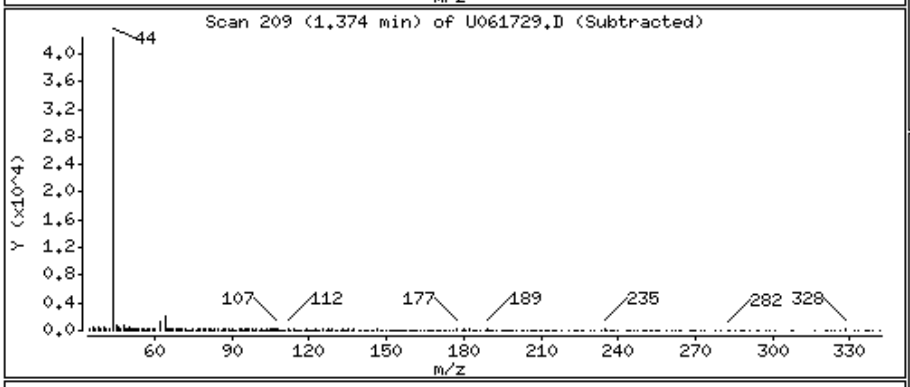
Column diameter: 0.18

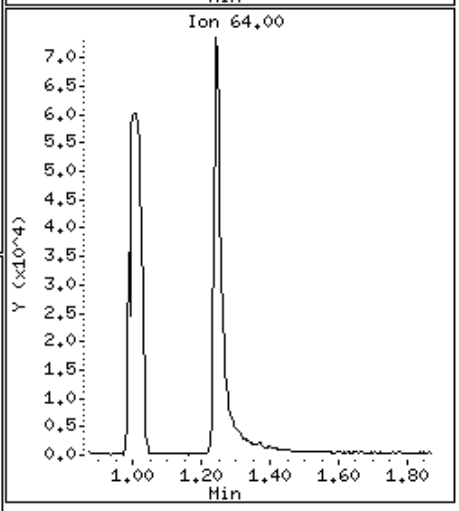
5 Vinyl Chloride

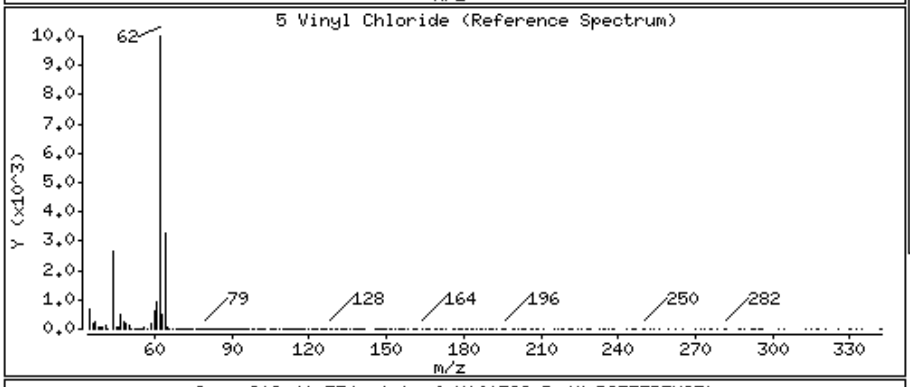
Concentration: 0.41 ug/l

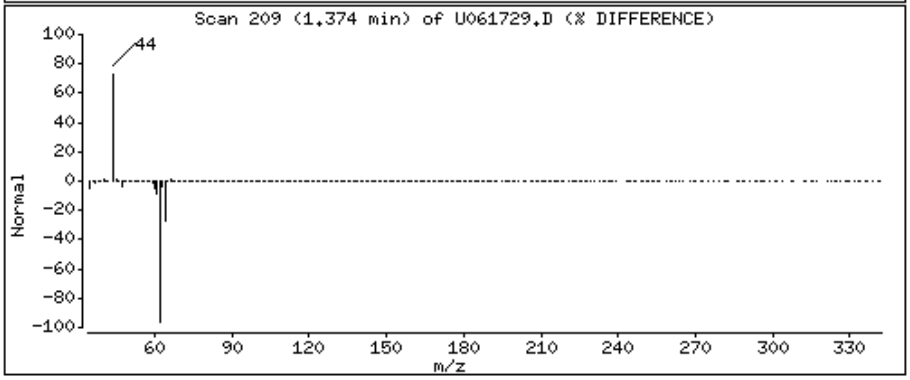


Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061729.D Page 3

Date : 17-JUN-2023 21:48

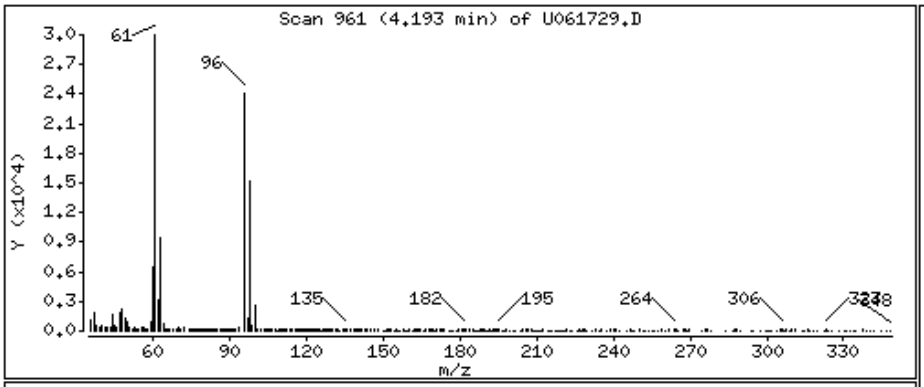
Client ID: HS23061096-04 Instrument: VOA9.i

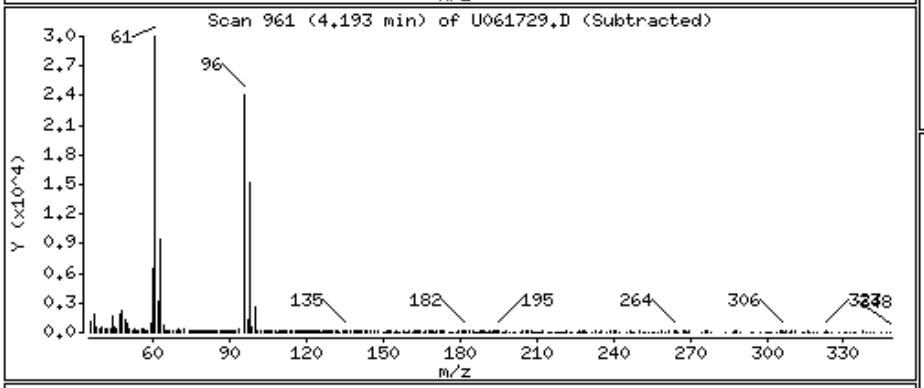
Sample Info: HS23061096-04;HS23061096-04;;;

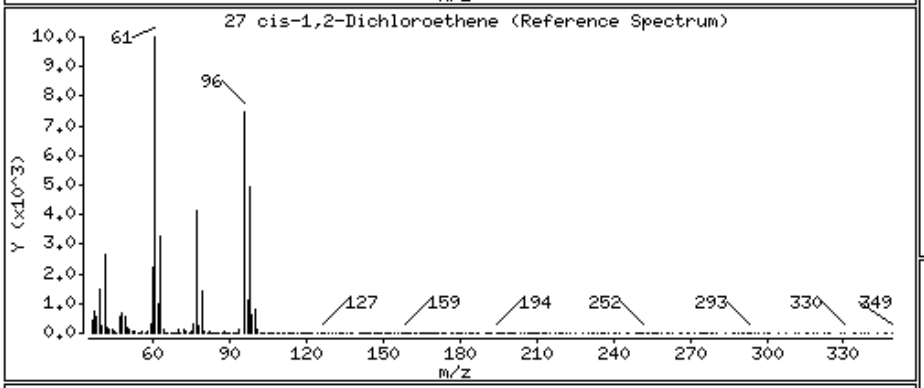
Purge Volume: 5.0 Operator: PC

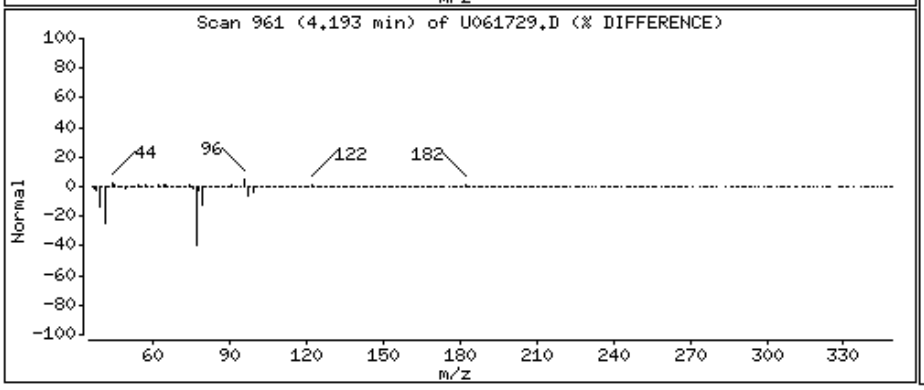
Column phase: DB624 Column diameter: 0.18

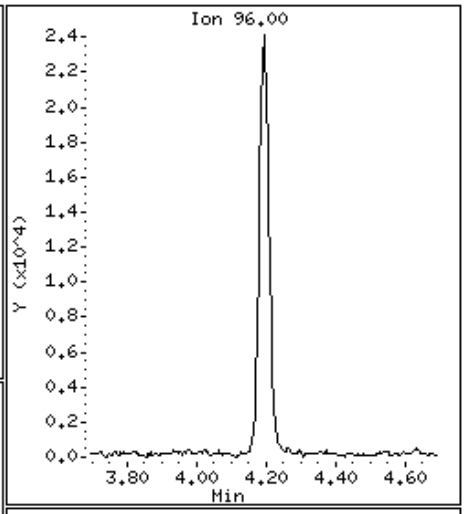
27 cis-1,2-Dichloroethene Concentration: 9.51 ug/l

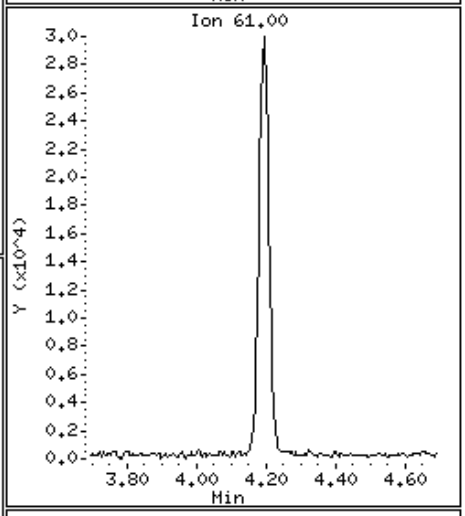


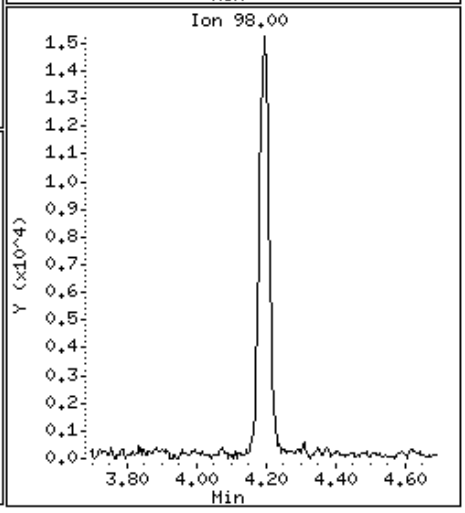



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061729.D Page 4

Date : 17-JUN-2023 21:48

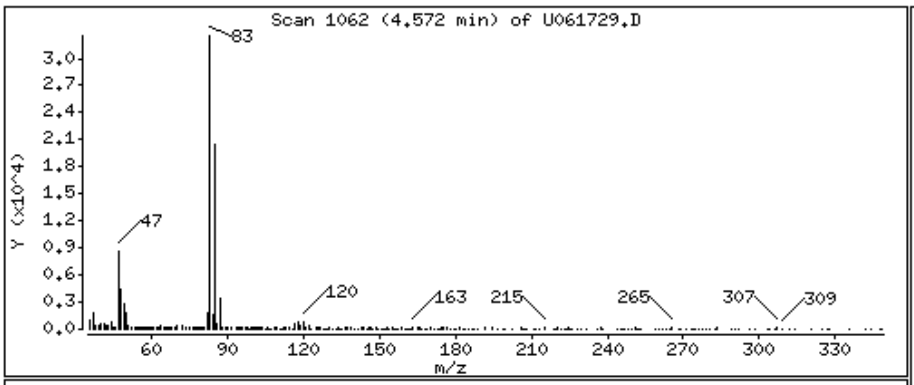
Client ID: HS23061096-04 Instrument: VOA9.i

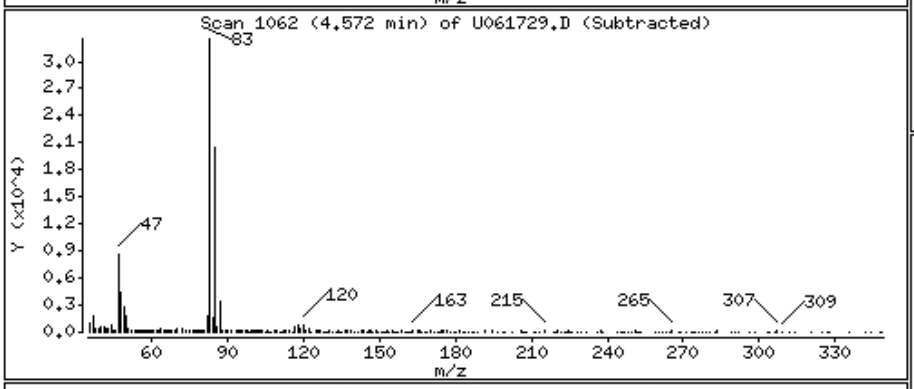
Sample Info: HS23061096-04;HS23061096-04;;;

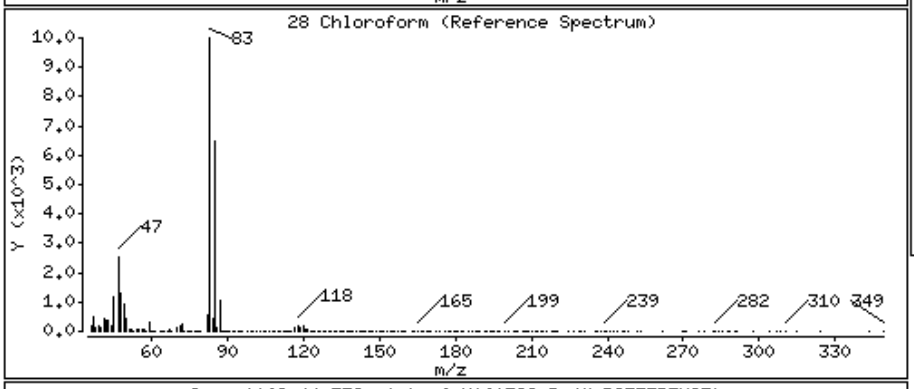
Purge Volume: 5.0 Operator: PC

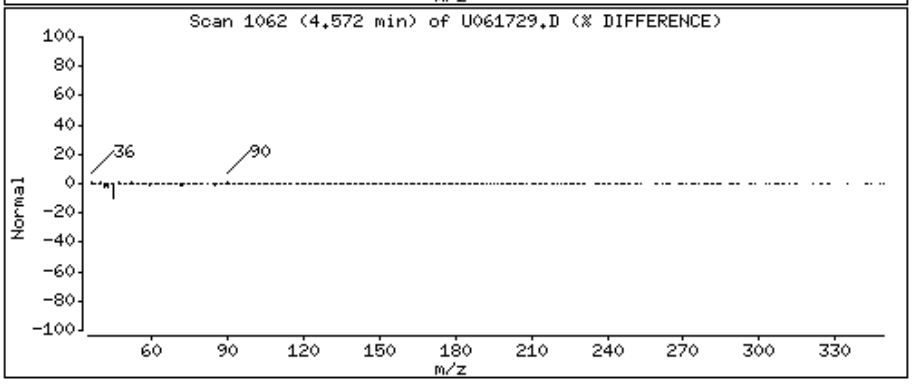
Column phase: DB624 Column diameter: 0.18

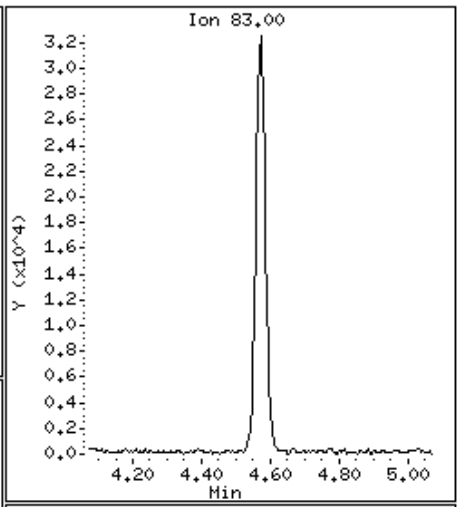
28 Chloroform Concentration: 7.69 ug/l

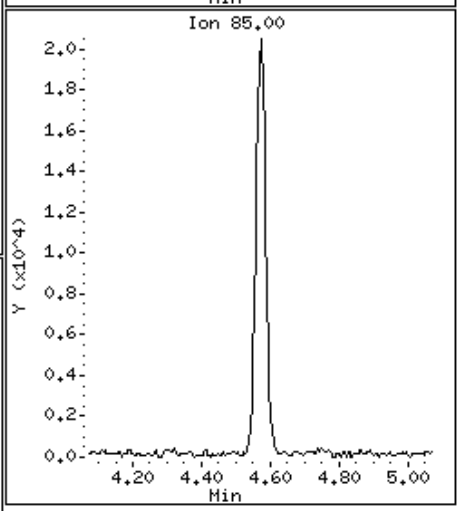


Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061729.D Page 5

Date : 17-JUN-2023 21:48

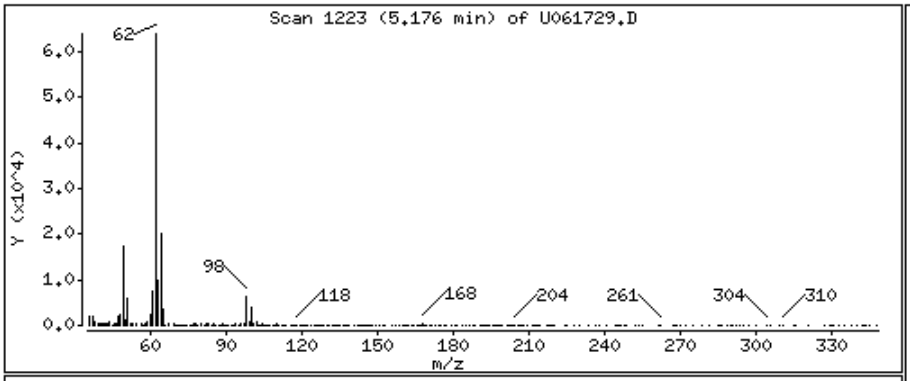
Client ID: HS23061096-04 Instrument: VOA9.i

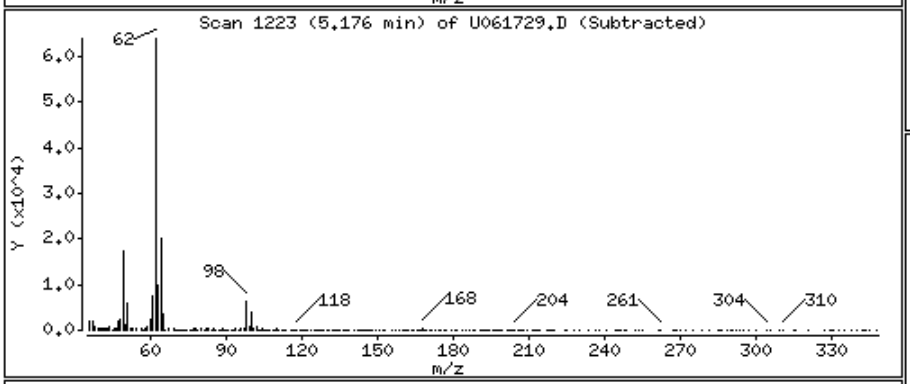
Sample Info: HS23061096-04;HS23061096-04;;;

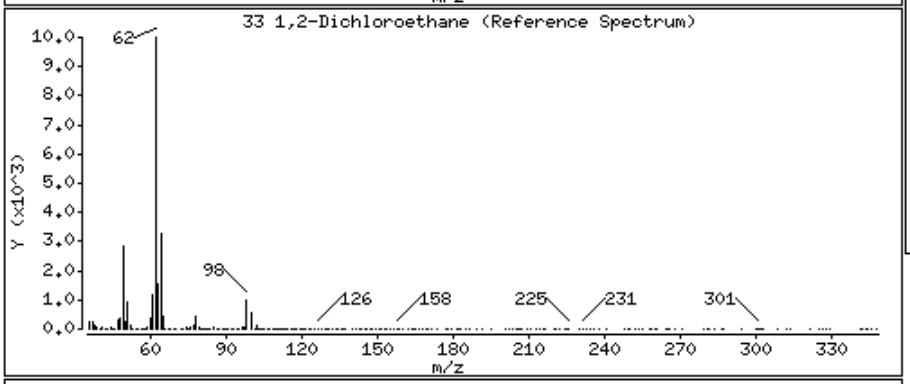
Purge Volume: 5.0 Operator: PC

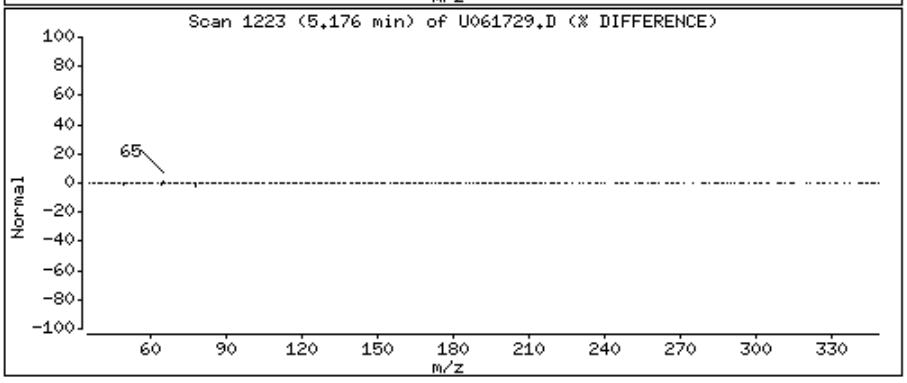
Column phase: DB624 Column diameter: 0.18

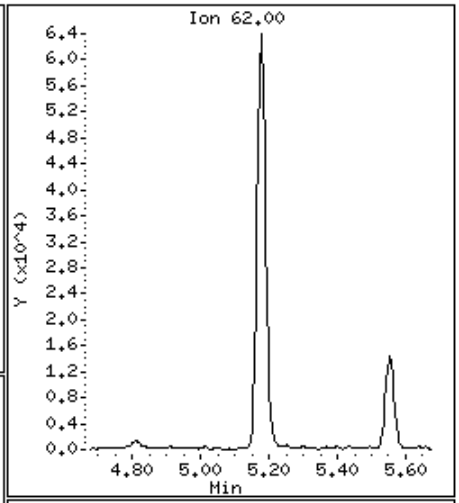
33 1,2-Dichloroethane Concentration: 18.73 ug/l

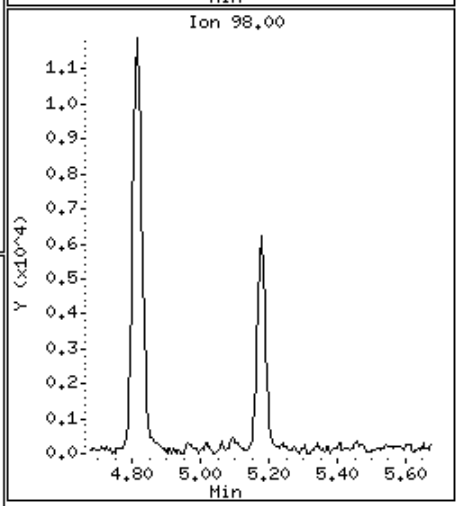


Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061729.D Page 6

Date : 17-JUN-2023 21:48

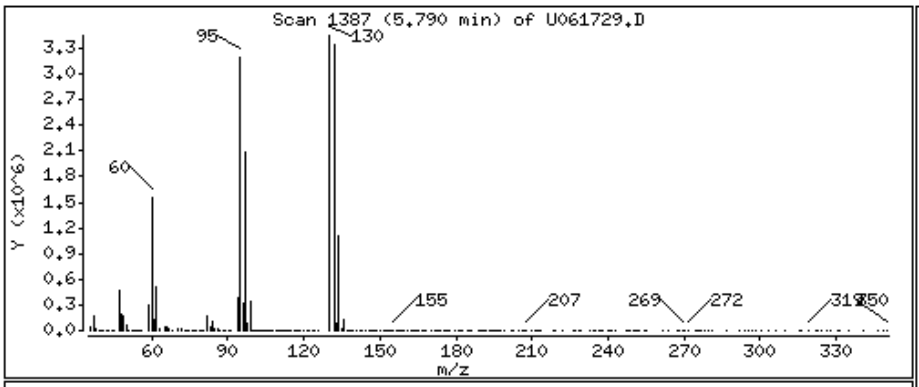
Client ID: HS23061096-04 Instrument: VOA9.i

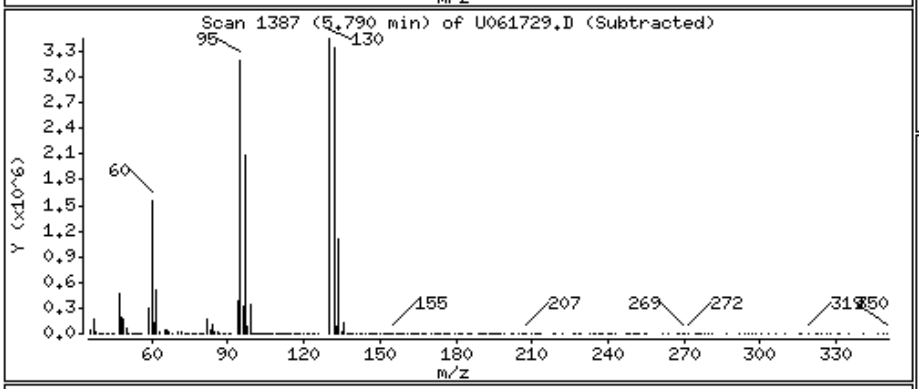
Sample Info: HS23061096-04;HS23061096-04;;;

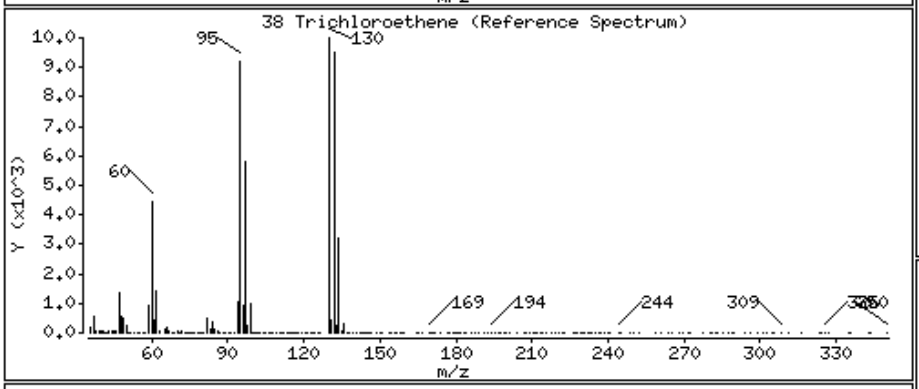
Purge Volume: 5.0 Operator: PC

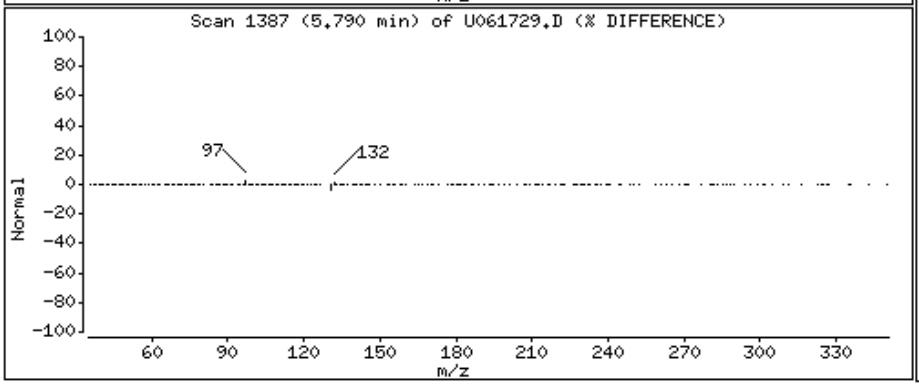
Column phase: DB624 Column diameter: 0.18

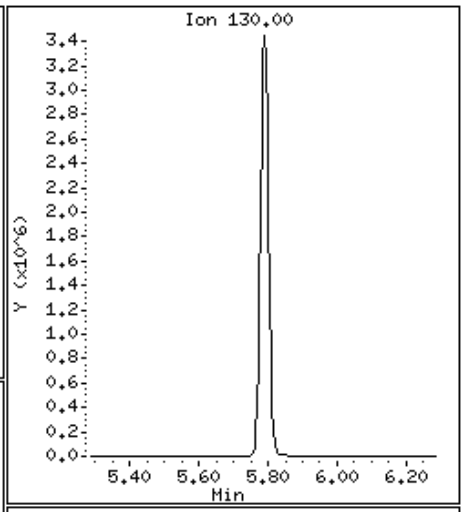
38 Trichloroethene Concentration: 1154.80 ug/l

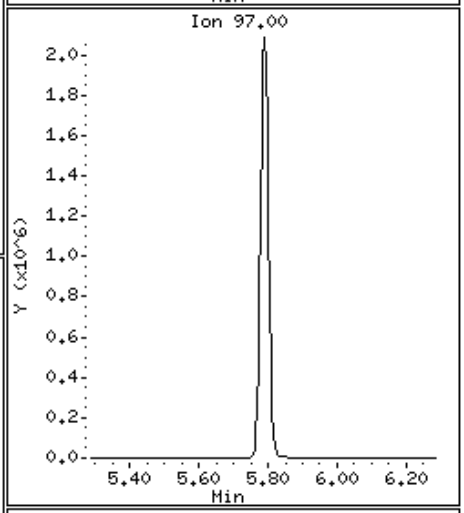


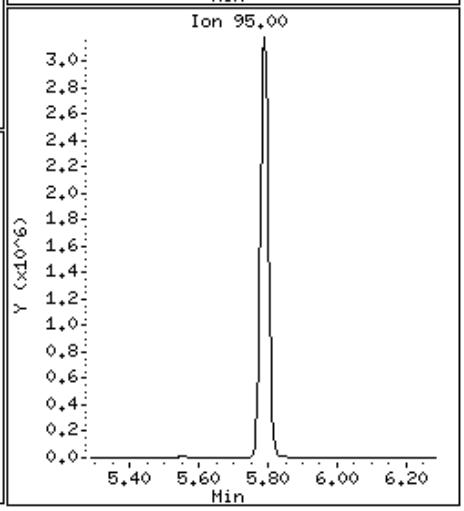



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061729.D Page 7

Date : 17-JUN-2023 21:48

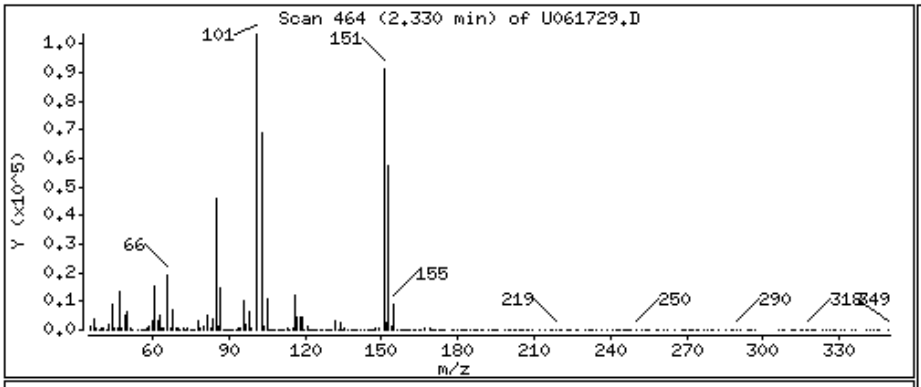
Client ID: HS23061096-04 Instrument: VOA9.i

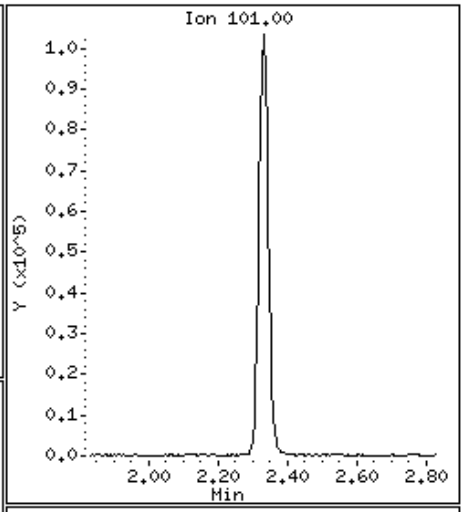
Sample Info: HS23061096-04;HS23061096-04;;;

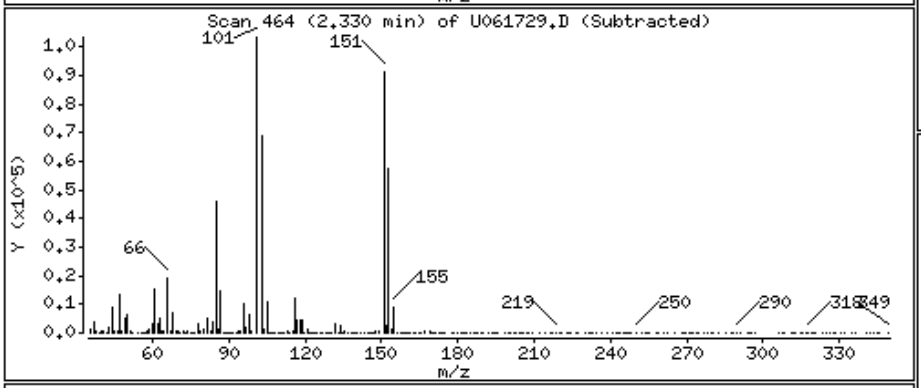
Purge Volume: 5.0 Operator: PC

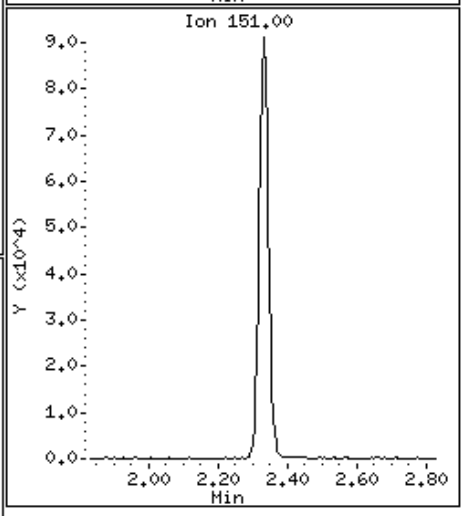
Column phase: DB624 Column diameter: 0.18

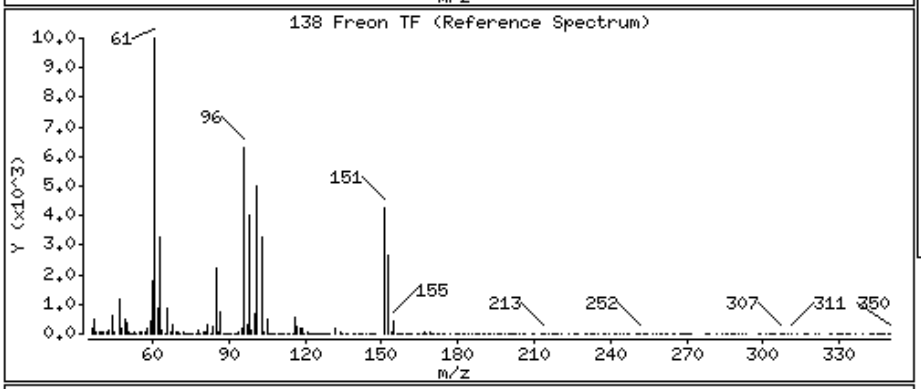
138 Freon TF Concentration: 58.45 ug/l

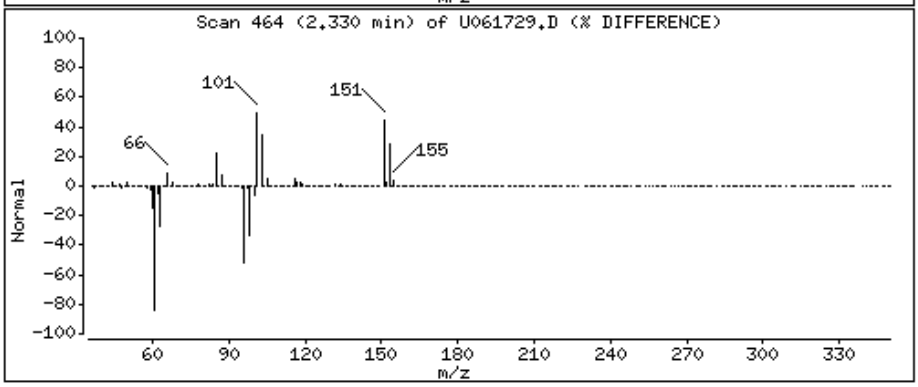


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061729.D
Inj Date  : 17-JUN-2023 21:48
InstruID  : VOA9.i
LabSampID : HS23061096-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061731.D  Page 1
Report Date: 20-Jun-2023 12:34

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061731.D
Lab Smp Id: CCV-END  Client Smp ID: CCV-END
Inj Date  : 17-JUN-2023 22:32
Operator  : PC  Inst ID: VOA9.i
Smp Info  : CCV-END;CCV-END;2;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\8260C.m
Meth Date : 20-Jun-2023 12:34 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 30  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.815 | 4.815 | (1.000) | 458256 | 50.0000 | |
| 2 | Dichlorodifluoromethane | 85 | 1.157 | 1.157 | (0.240) | 185071 | 50.0000 | 43.72 |
| 3 | Chloromethane | 50 | 1.291 | 1.291 | (0.268) | 307593 | 50.0000 | 44.35 |
| 5 | Vinyl Chloride | 62 | 1.370 | 1.370 | (0.285) | 223231 | 50.0000 | 46.05 |
| 6 | Bromomethane | 94 | 1.614 | 1.614 | (0.335) | 166967 | 50.0000 | 67.61 |
| 7 | Chloroethane | 64 | 1.693 | 1.693 | (0.352) | 160607 | 50.0000 | 49.18 |
| 8 | Trichlorofluoromethane | 101 | 1.891 | 1.891 | (0.393) | 308093 | 50.0000 | 55.34 |
| 9 | Acrolein | 56 | 2.262 | 2.262 | (0.470) | 21214 | 100.000 | 87.21 |
| 10 | Acetone | 43 | 2.405 | 2.405 | (0.499) | 174017 | 100.000 | 111.17 |
| 11 | 1,1-Dichloroethene | 96 | 2.330 | 2.330 | (0.484) | 173699 | 50.0000 | 49.93 |
| 15 | Iodomethane | 142 | 2.465 | 2.465 | (0.512) | 201978 | 100.000 | 77.20 |
| 16 | Acrylonitrile | 53 | 3.061 | 3.061 | (0.636) | 181274 | 100.000 | 106.66 |
| 17 | Methylene Chloride | 84 | 2.791 | 2.791 | (0.580) | 228044 | 50.0000 | 54.66 |
| 18 | Methyl tert-butyl ether | 73 | 3.076 | 3.076 | (0.639) | 581500 | 50.0000 | 54.51 |
| 19 | Carbon Disulfide | 76 | 2.517 | 2.517 | (0.523) | 958107 | 100.000 | 103.03 |
| 20 | trans-1,2-Dichloroethene | 96 | 3.053 | 3.053 | (0.634) | 198365 | 50.0000 | 52.43 |
| 21 | Vinyl Acetate | 43 | 3.604 | 3.604 | (0.749) | 1266955 | 100.000 | 109.87 |
| 22 | 1,1-Dichloroethane | 63 | 3.511 | 3.511 | (0.729) | 360255 | 50.0000 | 50.11 |
| 24 | 2-Butanone | 43 | 4.264 | 4.264 | (0.886) | 196596 | 100.000 | 94.09 |
| 26 | 2,2-Dichloropropane | 77 | 4.178 | 4.178 | (0.868) | 213086 | 50.0000 | 44.87 |
| 27 | cis-1,2-Dichloroethene | 96 | 4.193 | 4.193 | (0.871) | 231314 | 50.0000 | 51.11 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 28 | Chloroform | 83 | 4.572 | 4.572 (0.949) | 392987 | 50.0000 | 52.52 |
| 29 | Bromochloromethane | 128 | 4.467 | 4.467 (0.928) | 125211 | 50.0000 | 49.46 |

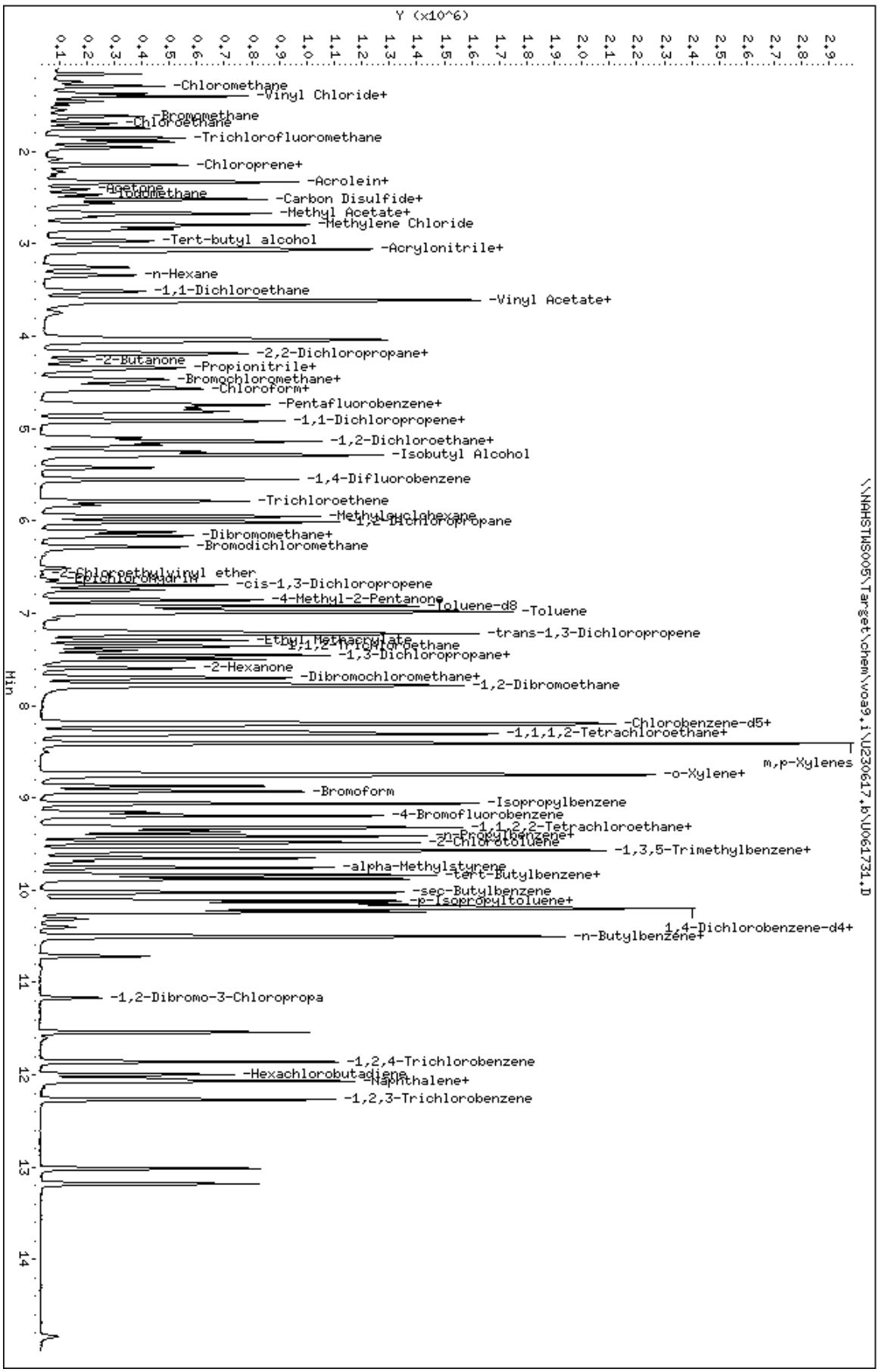
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| $ | 30 Dibromofluoromethane | 113 | 4.748 | 4.748 | (0.986) | 213515 | 50.0000 | 55.54 |
| | 31 1,1,1-Trichloroethane | 97 | 4.740 | 4.740 | (0.984) | 307706 | 50.0000 | 53.95 |
| | 32 1,1-Dichloropropene | 75 | 4.920 | 4.920 | (0.886) | 251579 | 50.0000 | 49.37 |
| | 33 1,2-Dichloroethane | 62 | 5.175 | 5.175 | (0.932) | 334469 | 50.0000 | 55.57 |
| | 34 Carbon Tetrachloride | 117 | 4.909 | 4.909 | (0.884) | 255572 | 50.0000 | 54.60 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.096 | 5.096 | (1.058) | 243051 | 50.0000 | 58.51 |
| * | 36 1,4-Difluorobenzene | 114 | 5.554 | 5.554 | (1.000) | 695312 | 50.0000 | |
| | 37 Benzene | 78 | 5.138 | 5.138 | (0.925) | 823643 | 50.0000 | 49.15 |
| | 38 Trichloroethene | 130 | 5.786 | 5.786 | (1.042) | 236395 | 50.0000 | 48.67 |
| | 39 Bromodichloromethane | 83 | 6.277 | 6.277 | (1.130) | 293573 | 50.0000 | 56.17 |
| | 41 2-Chloroethylvinyl ether | 63 | 6.581 | 6.581 | (1.185) | 4819 | 100.000 | 38.12 |
| | 42 1,2-Dichloropropane | 63 | 6.011 | 6.011 | (1.082) | 218011 | 50.0000 | 48.73 |
| | 44 Dibromomethane | 93 | 6.120 | 6.120 | (1.102) | 150189 | 50.0000 | 52.54 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.855 | 6.855 | (0.837) | 472330 | 100.000 | 94.95 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.693 | 6.693 | (1.205) | 312772 | 50.0000 | 44.87 |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 683084 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.922 | (0.846) | 785331 | 50.0000 | 50.79 |
| | 50 Toluene | 91 | 6.982 | 6.982 | (0.853) | 942255 | 50.0000 | 50.85 |
| | 51 trans-1,3-Dichloropropene | 75 | 7.196 | 7.196 | (1.296) | 269631 | 50.0000 | 46.04 |
| | 52 2-Hexanone | 43 | 7.593 | 7.593 | (0.928) | 316767 | 100.000 | 91.44 |
| | 53 1,1,2-Trichloroethane | 83 | 7.357 | 7.357 | (0.899) | 186331 | 50.0000 | 48.33 |
| | 54 1,3-Dichloropropane | 76 | 7.499 | 7.499 | (0.916) | 393480 | 50.0000 | 49.95 |
| | 55 Dibromochloromethane | 129 | 7.694 | 7.694 | (0.940) | 254198 | 50.0000 | 55.57 |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 218910 | 50.0000 | 48.49 |
| | 57 1,2-Dibromoethane | 107 | 7.784 | 7.784 | (0.951) | 238083 | 50.0000 | 50.06 |
| | 58 1-Chlorohexane | 55 | 8.197 | 8.197 | (1.476) | 172394 | 50.0000 | 48.28 |
| | 59 Chlorobenzene | 112 | 8.212 | 8.212 | (1.003) | 650636 | 50.0000 | 49.20 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 8.287 | 8.287 | (1.012) | 244549 | 50.0000 | 53.81 |
| | 61 Ethylbenzene | 106 | 8.305 | 8.305 | (1.015) | 313745 | 50.0000 | 50.98 |
| | 62 m,p-Xylenes | 106 | 8.410 | 8.410 | (1.027) | 775236 | 100.000 | 106.47 |
| | 63 o-Xylene | 106 | 8.748 | 8.748 | (1.069) | 376499 | 50.0000 | 52.34 |
| | 64 Styrene | 104 | 8.763 | 8.763 | (1.071) | 621563 | 50.0000 | 54.45 |
| | 66 Bromoform | 173 | 8.920 | 8.920 | (1.090) | 169897 | 50.0000 | 55.02 |
| | 67 Isopropylbenzene | 105 | 9.062 | 9.062 | (1.107) | 930388 | 50.0000 | 53.85 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 9.329 | 9.329 | (0.917) | 319790 | 50.0000 | 46.65 |
| $ | 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 331431 | 50.0000 | 54.49 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 364404 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 9.362 | 9.362 | (0.920) | 278277 | 50.0000 | 46.14 |
| | 73 n-Propylbenzene | 91 | 9.411 | 9.411 | (0.925) | 961822 | 50.0000 | 50.31 |
| | 74 Bromobenzene | 156 | 9.317 | 9.317 | (0.916) | 293149 | 50.0000 | 47.67 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.561 | 9.561 | (0.940) | 661908 | 50.0000 | 50.47 |
| | 76 2-Chlorotoluene | 91 | 9.482 | 9.482 | (0.932) | 677992 | 50.0000 | 50.45 |
| | 77 4-Chlorotoluene | 91 | 9.576 | 9.576 | (0.941) | 769354 | 50.0000 | 51.72 |
| | 78 tert-Butylbenzene | 119 | 9.838 | 9.838 | (0.967) | 651119 | 50.0000 | 50.55 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.880 | 9.880 | (0.971) | 661143 | 50.0000 | 48.18 |
| | 81 sec-Butylbenzene | 105 | 10.022 | 10.022 | (0.985) | 826477 | 50.0000 | 50.60 |
| | 82 p-Isopropyltoluene | 119 | 10.146 | 10.146 | (0.997) | 674647 | 50.0000 | 49.30 |
| | 83 1,3-Dichlorobenzene | 146 | 10.116 | 10.116 | (0.994) | 501435 | 50.0000 | 48.01 |
| | 84 1,4-Dichlorobenzene | 146 | 10.191 | 10.191 | (1.002) | 522825 | 50.0000 | 46.95 |
| | 87 n-Butylbenzene | 91 | 10.494 | 10.494 | (1.032) | 556470 | 50.0000 | 47.50 |
| | 88 1,2-Dichlorobenzene | 146 | 10.506 | 10.506 | (1.033) | 512520 | 50.0000 | 48.94 |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 11.169 | 11.169 | (1.098) | 46254 | 50.0000 | 46.24 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 90 1,2,4-Trichlorobenzene | 180 | 11.859 | 11.859 (1.166) | 326324 | 50.0000 | 45.31 |
| 91 Hexachlorobutadiene | 225 | 11.998 | 11.998 (1.179) | 126205 | 50.0000 | 43.39 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) | |
|---|---|---|---|---|---|---|---|---|---|
| | 92 Naphthalene | 128 | 12.065 | 12.065 | (1.186) | 795168 | 50.0000 | 47.53 | |
| | 93 1,2,3-Trichlorobenzene | 180 | 12.268 | 12.268 | (1.206) | 317785 | 50.0000 | 45.13 | |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 429679 | 100.000 | | (a) |
| | 135 1,4-Dioxane | 88 | 6.169 | 6.169 | (1.281) | 56897 | 1000.00 | 625.29 | |
| | 141 Cyclohexane | 56 | 4.781 | 4.781 | (0.993) | 243981 | 50.0000 | 43.48 | |
| | 138 Freon TF | 101 | 2.330 | 2.330 | (0.484) | 161336 | 50.0000 | 52.42 | |
| | 140 1,3-Butadiene | 54 | 1.400 | 1.400 | (0.291) | 188664 | 50.0000 | 43.47 | |
| | 147 Methylcyclohexane | 55 | 5.947 | 5.947 | (1.071) | 491504 | 50.0000 | 50.95 | |
| | 146 Methyl Acetate | 43 | 2.708 | 2.708 | (0.563) | 188790 | 50.0000 | 48.92 | |
| | 148 Tert-Butyl alcohol | 59 | 2.967 | 2.967 | (0.616) | 437747 | 1000.00 | 1034.03 | |
| | 149 Isopropyl Alcohol | 45 | 2.559 | 2.559 | (0.531) | 287367 | 1000.00 | 959.24 | |
| | 72 trans-1,4-Dichloro-2-butene | 53 | 9.377 | 9.377 | (1.146) | 37650 | 50.0000 | 47.86 | |
| | 12 Isobutyl Alcohol | 43 | 5.288 | 5.288 | (1.098) | 715974 | 1000.00 | 1202.50 | |
| | 13 Acetonitrile | 39 | 2.667 | 2.667 | (0.554) | 292350 | 500.000 | 589.25 | |
| | 166 1,2,3-Trimethylbenzene | 105 | 10.236 | 10.236 | (1.006) | 701662 | 50.0000 | 50.09 | |
| | 156 Diisopropyl ether | 45 | 3.619 | 3.619 | (0.752) | 699786 | 50.0000 | 54.76 | |
| | 162 Butyl acrylate | 55 | 8.733 | 8.733 | (1.067) | 386435 | 50.0000 | 47.82 | |
| | 203 2-Ethylhexyl Acrylate | 55 | 12.043 | 12.043 | (1.184) | 163364 | 50.0000 | 46.99 | |

## QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).




Data File: \\NAHSTWS005\Target\chem\voa9,i\U230617,b\U061731.D
Date : 17-JUN-2023 22:32
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230617.b\U061731.D
Inj Date  : 17-JUN-2023 22:32
InstruID  : VOA9.i
LabSampID : CCV-END

NO MANUAL INTEGRATIONS

01196702

right solutions.
right partner.

# Raw Data VOA9 439270

## Volatiles by EPA 8260

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/22/2023

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\voa9.i\U230619.b\U061901.D  Page 1
Report Date: 19-Jun-2023 20:48

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061901.D
Lab Smp Id: BFB  Client Smp ID: BFB
Inj Date  : 19-JUN-2023 10:12
Operator  : PC  Inst ID: VOA9.i
Smp Info  : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri  Quant Type: ISTD
Cal Date  : 30-MAR-2018 18:09  Cal File: U033003.d
Als bottle: 62  QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: all.sub
Target Version:  4.14  Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vf | 1.000 | Volumetric correction factor |
| Vi | 2.000 | Injection Volume |
| Cpnd Variable | | Local Compound Variable |

| | | | | | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/l) | | |
|---|---|---|---|---|---|---|---|---|
| RT | EXP RT | REL RT | MASS | RESPONSE | | | TARGET RANGE | RATIO |
| 1 bfb | | | | | | | CAS #: 460-00-4 | |
| 9.194 | 9.180 | ( 0.000) | 95 | 73104 | | | 0.00- 100.00 | 95.53 |
| 9.194 | 9.180 | ( 0.000) | 50 | 14129 | | | 15.00- 40.00 | 19.33 |
| 9.194 | 9.180 | ( 0.000) | 75 | 36952 | | | 30.00- 60.00 | 50.55 |
| 9.194 | 9.180 | ( 0.000) | 96 | 5424 | | | 5.00- 9.00 | 7.42 |
| 9.194 | 9.180 | ( 0.000) | 173 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 9.194 | 9.180 | ( 0.000) | 174 | 76528 | | | 50.00- 0.00 | 104.68 |
| 9.194 | 9.180 | ( 0.000) | 175 | 6724 | | | 5.00- 9.00 | 8.79 |
| 9.194 | 9.180 | ( 0.000) | 176 | 72728 | | | 95.00- 101.00 | 95.03 |
| 9.194 | 9.180 | ( 0.000) | 177 | 4545 | | | 5.00- 9.00 | 6.25 |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 19.33 |
| 75 | 30.00 - 60.00% of mass 95 | 50.55 |
| 96 | 5.00 - 9.00% of mass 95 | 7.42 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 104.68 |
| 175 | 5.00 - 9.00% of mass 174 | 9.20 ( 8.79) |
| 176 | 95.00 - 101.00% of mass 174 | 99.49 ( 95.03) |
| 177 | 5.00 - 9.00% of mass 176 | 6.22 ( 6.25) |

Data File: U061901.D
Spectrum: Scan 2297 ( 9.20)
Location of Maximum: 173.95
Number of points: 210

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 4217 | 89.70 | 132 | 141.90 | 1135 | 200.80 | 56 |
| 37.00 | 4406 | 91.00 | 496 | 143.00 | 1335 | 202.50 | 80 |
| 38.00 | 5567 | 92.00 | 2408 | 143.80 | 153 | 207.10 | 58 |
| 39.00 | 3219 | 93.00 | 3814 | 144.60 | 138 | 208.40 | 92 |
| 40.00 | 933 | 94.00 | 9888 | 145.70 | 144 | 209.10 | 101 |
| 41.00 | 2624 | 95.00 | 73104 | 146.50 | 124 | 211.20 | 78 |
| 42.00 | 2264 | 96.00 | 5424 | 147.90 | 328 | 212.40 | 92 |
| 43.00 | 3695 | 97.10 | 290 | 148.50 | 103 | 213.50 | 71 |
| 44.00 | 1919 | 98.00 | 884 | 149.00 | 182 | 215.30 | 71 |
| 45.00 | 2462 | 98.90 | 194 | 149.70 | 132 | 215.90 | 76 |
| 46.00 | 287 | 99.50 | 128 | 150.60 | 108 | 217.70 | 50 |
| 46.90 | 1276 | 99.90 | 103 | 152.10 | 130 | 221.70 | 71 |
| 48.00 | 916 | 100.90 | 80 | 152.90 | 188 | 223.10 | 52 |
| 49.00 | 3482 | 101.30 | 96 | 153.90 | 163 | 224.70 | 119 |
| 50.00 | 14129 | 102.20 | 146 | 154.80 | 352 | 226.30 | 58 |
| 51.00 | 4966 | 103.90 | 449 | 155.90 | 138 | 227.70 | 62 |
| 52.10 | 350 | 104.80 | 318 | 156.90 | 240 | 228.50 | 75 |
| 53.20 | 414 | 105.90 | 497 | 158.30 | 122 | 229.00 | 63 |
| 54.00 | 426 | 106.90 | 556 | 158.70 | 184 | 230.60 | 73 |
| 54.90 | 2137 | 107.80 | 172 | 160.50 | 123 | 233.80 | 125 |
| 56.00 | 1837 | 109.00 | 480 | 161.40 | 78 | 235.00 | 123 |
| 56.90 | 2352 | 109.80 | 222 | 162.90 | 88 | 235.70 | 120 |
| 58.00 | 1053 | 110.90 | 195 | 164.00 | 117 | 238.40 | 59 |
| 59.00 | 5579 | 111.80 | 186 | 165.60 | 111 | 242.40 | 70 |
| 59.90 | 1191 | 112.80 | 240 | 166.40 | 115 | 243.40 | 62 |
| 61.00 | 3608 | 114.80 | 207 | 167.60 | 200 | 244.60 | 56 |
| 61.90 | 3450 | 115.80 | 370 | 168.70 | 166 | 247.90 | 54 |
| 63.00 | 2885 | 116.90 | 676 | 169.60 | 135 | 248.60 | 56 |
| 64.00 | 342 | 117.90 | 401 | 170.80 | 846 | 249.50 | 71 |
| 65.00 | 607 | 118.80 | 618 | 172.00 | 795 | 250.10 | 55 |
| 65.70 | 265 | 120.00 | 111 | 173.90 | 76528 | 251.50 | 59 |
| 66.20 | 282 | 121.60 | 139 | 175.00 | 6724 | 252.00 | 61 |
| 67.10 | 432 | 123.00 | 130 | 175.90 | 72728 | 257.70 | 63 |
| 68.00 | 7847 | 123.90 | 141 | 176.90 | 4545 | 258.70 | 52 |
| 69.00 | 8824 | 124.60 | 161 | 178.00 | 156 | 261.20 | 89 |
| 70.00 | 1367 | 125.10 | 210 | 179.80 | 147 | 262.60 | 80 |
| 71.00 | 159 | 126.80 | 1538 | 181.20 | 71 | 265.70 | 121 |
| 71.90 | 703 | 127.90 | 759 | 183.60 | 96 | 273.10 | 68 |
| 73.00 | 3900 | 128.90 | 339 | 184.90 | 140 | 279.30 | 54 |
| 74.00 | 13781 | 129.70 | 245 | 185.90 | 1229 | 281.10 | 61 |
| 75.00 | 36952 | 130.10 | 277 | 186.80 | 109 | 286.80 | 50 |
| 76.00 | 3114 | 130.90 | 297 | 187.40 | 85 | 287.90 | 85 |
| 76.80 | 575 | 131.80 | 95 | 187.90 | 60 | 303.80 | 53 |
| 78.90 | 3068 | 132.30 | 61 | 188.70 | 65 | 306.10 | 100 |
| 80.00 | 1163 | 132.80 | 103 | 189.60 | 72 | 308.00 | 66 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 80.90 | 3236 | 133.80 | 118 | 191.20 | 59 | 311.80 | 148 |
| 81.90 | 919 | 135.00 | 358 | 191.80 | 56 | 316.50 | 65 |
| 83.10 | 428 | 136.80 | 309 | 192.50 | 62 | 318.00 | 65 |
| 83.90 | 123 | 137.50 | 176 | 193.80 | 95 | 336.20 | 62 |
| 85.00 | 202 | 138.50 | 140 | 196.20 | 87 | 336.70 | 73 |
| 85.80 | 157 | 138.80 | 134 | 196.70 | 100 | 343.70 | 70 |
| 87.00 | 3156 | 139.90 | 283 | 198.40 | 54 | | |
| 88.00 | 2801 | 140.80 | 1576 | 199.60 | 109 | | |

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Data file : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061903.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 19-JUN-2023 11:23
Operator : PC Inst ID: VOA9.i
Smp Info : CCV;CCV;2;;;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\8260C.m
Meth Date : 21-Jun-2023 17:01 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.819 | 4.819 | (1.000) | 491200 | 50.0000 | |
| 2 Dichlorodifluoromethane | 85 | 1.168 | 1.168 | (0.242) | 216579 | 50.0000 | 47.72 |
| 3 Chloromethane | 50 | 1.299 | 1.299 | (0.270) | 307547 | 50.0000 | 41.28 |
| 5 Vinyl Chloride | 62 | 1.382 | 1.382 | (0.287) | 238770 | 50.0000 | 45.95 |
| 6 Bromomethane | 94 | 1.621 | 1.621 | (0.337) | 151187 | 50.0000 | 56.83 |
| 7 Chloroethane | 64 | 1.704 | 1.704 | (0.354) | 166426 | 50.0000 | 47.55 |
| 8 Trichlorofluoromethane | 101 | 1.899 | 1.899 | (0.394) | 345047 | 50.0000 | 57.82 |
| 9 Acrolein | 56 | 2.270 | 2.270 | (0.471) | 27041 | 100.000 | 103.71 |
| 10 Acetone | 43 | 2.412 | 2.412 | (0.501) | 212522 | 100.000 | 127.45 |
| 11 1,1-Dichloroethene | 96 | 2.337 | 2.337 | (0.485) | 186840 | 50.0000 | 50.11 |
| 15 Iodomethane | 142 | 2.472 | 2.472 | (0.513) | 332898 | 100.000 | 111.32 |
| 16 Acrylonitrile | 53 | 3.068 | 3.068 | (0.637) | 190290 | 100.000 | 104.46 |
| 17 Methylene Chloride | 84 | 2.799 | 2.799 | (0.581) | 233781 | 50.0000 | 52.23 |
| 18 Methyl tert-butyl ether | 73 | 3.083 | 3.083 | (0.640) | 612579 | 50.0000 | 53.57 |
| 19 Carbon Disulfide | 76 | 2.525 | 2.525 | (0.524) | 1017769 | 100.000 | 102.10 |
| 20 trans-1,2-Dichloroethene | 96 | 3.065 | 3.065 | (0.636) | 205147 | 50.0000 | 50.59 |
| 21 Vinyl Acetate | 43 | 3.612 | 3.612 | (0.750) | 1386981 | 100.000 | 112.21 |
| 22 1,1-Dichloroethane | 63 | 3.518 | 3.518 | (0.730) | 373540 | 50.0000 | 48.47 |
| 24 2-Butanone | 43 | 4.268 | 4.268 | (0.886) | 228914 | 100.000 | 102.21 |
| 26 2,2-Dichloropropane | 77 | 4.186 | 4.186 | (0.869) | 287801 | 50.0000 | 56.43 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 27 cis-1,2-Dichloroethene | 96 | 4.201 | 4.201 (0.872) | 238865 | 50.0000 | 49.24 |
| 28 Chloroform | 83 | 4.575 | 4.575 (0.949) | 404803 | 50.0000 | 50.47 |

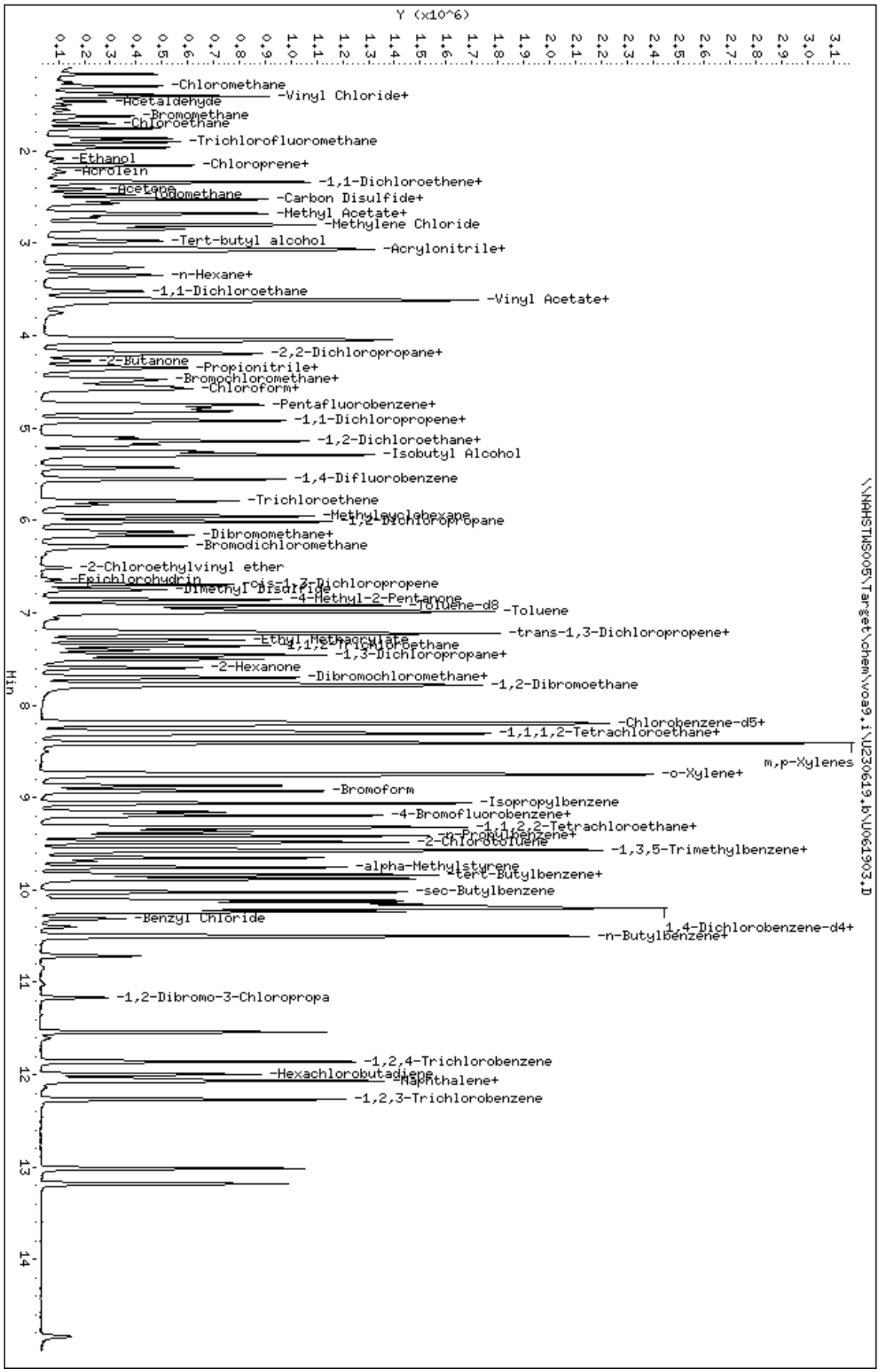
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 29 Bromochloromethane | 128 | 4.470 | 4.470 | (0.928) | 133742 | 50.0000 | 49.28 |
| $ | 30 Dibromofluoromethane | 113 | 4.752 | 4.752 | (0.986) | 215583 | 50.0000 | 52.30 |
| | 31 1,1,1-Trichloroethane | 97 | 4.744 | 4.744 | (0.984) | 321419 | 50.0000 | 52.58 |
| | 32 1,1-Dichloropropene | 75 | 4.924 | 4.924 | (0.887) | 269471 | 50.0000 | 51.65 |
| | 33 1,2-Dichloroethane | 62 | 5.179 | 5.179 | (0.933) | 350291 | 50.0000 | 56.85 |
| | 34 Carbon Tetrachloride | 117 | 4.913 | 4.913 | (0.885) | 271336 | 50.0000 | 56.62 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.058) | 253839 | 50.0000 | 56.99 |
| * | 36 1,4-Difluorobenzene | 114 | 5.554 | 5.554 | (1.000) | 711864 | 50.0000 | |
| | 37 Benzene | 78 | 5.141 | 5.141 | (0.926) | 841324 | 50.0000 | 49.04 |
| | 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.043) | 238001 | 50.0000 | 47.87 |
| | 39 Bromodichloromethane | 83 | 6.281 | 6.281 | (1.131) | 301482 | 50.0000 | 56.34 |
| | 41 2-Chloroethylvinyl ether | 63 | 6.577 | 6.577 | (1.184) | 5191 | 100.000 | 40.10 |
| | 42 1,2-Dichloropropane | 63 | 6.011 | 6.011 | (1.082) | 227862 | 50.0000 | 49.75 |
| | 44 Dibromomethane | 93 | 6.120 | 6.120 | (1.102) | 157323 | 50.0000 | 53.76 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.858 | 6.858 | (0.838) | 537009 | 100.000 | 104.46 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.693 | 6.693 | (1.205) | 343439 | 50.0000 | 47.98 |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 705944 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.922 | (0.846) | 803347 | 50.0000 | 50.27 |
| | 50 Toluene | 91 | 6.982 | 6.982 | (0.853) | 963363 | 50.0000 | 50.31 |
| | 51 trans-1,3-Dichloropropene | 75 | 7.199 | 7.199 | (1.296) | 303303 | 50.0000 | 50.39 |
| | 52 2-Hexanone | 43 | 7.593 | 7.593 | (0.928) | 351469 | 100.000 | 98.17 |
| | 53 1,1,2-Trichloroethane | 83 | 7.357 | 7.357 | (0.899) | 193771 | 50.0000 | 48.63 |
| | 54 1,3-Dichloropropane | 76 | 7.499 | 7.499 | (0.916) | 412523 | 50.0000 | 50.68 |
| | 55 Dibromochloromethane | 129 | 7.694 | 7.694 | (0.940) | 272189 | 50.0000 | 57.58 |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 227094 | 50.0000 | 48.68 |
| | 57 1,2-Dibromoethane | 107 | 7.788 | 7.788 | (0.951) | 255616 | 50.0000 | 52.01 |
| | 58 1-Chlorohexane | 55 | 8.197 | 8.197 | (1.476) | 186687 | 50.0000 | 51.07 |
| | 59 Chlorobenzene | 112 | 8.212 | 8.212 | (1.003) | 686995 | 50.0000 | 50.27 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 8.287 | 8.287 | (1.012) | 251339 | 50.0000 | 53.51 |
| | 61 Ethylbenzene | 106 | 8.309 | 8.309 | (1.015) | 324481 | 50.0000 | 51.01 |
| | 62 m,p-Xylenes | 106 | 8.410 | 8.410 | (1.027) | 819407 | 100.000 | 108.89 |
| | 63 o-Xylene | 106 | 8.748 | 8.748 | (1.069) | 399641 | 50.0000 | 53.76 |
| | 64 Styrene | 104 | 8.763 | 8.763 | (1.071) | 671900 | 50.0000 | 56.95 |
| | 66 Bromoform | 173 | 8.920 | 8.920 | (1.090) | 186237 | 50.0000 | 58.36 |
| | 67 Isopropylbenzene | 105 | 9.063 | 9.063 | (1.107) | 976347 | 50.0000 | 54.68 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 9.329 | 9.329 | (0.917) | 348874 | 50.0000 | 47.99 |
| $ | 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 357846 | 50.0000 | 56.96 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 386436 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 9.362 | 9.362 | (0.920) | 317126 | 50.0000 | 49.59 |
| | 73 n-Propylbenzene | 91 | 9.411 | 9.411 | (0.925) | 1034816 | 50.0000 | 51.05 |
| | 74 Bromobenzene | 156 | 9.318 | 9.318 | (0.916) | 313633 | 50.0000 | 48.10 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.561 | 9.561 | (0.940) | 697507 | 50.0000 | 50.15 |
| | 76 2-Chlorotoluene | 91 | 9.482 | 9.482 | (0.932) | 709129 | 50.0000 | 49.76 |
| | 77 4-Chlorotoluene | 91 | 9.576 | 9.576 | (0.941) | 810721 | 50.0000 | 51.40 |
| | 78 tert-Butylbenzene | 119 | 9.839 | 9.839 | (0.967) | 693883 | 50.0000 | 50.80 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.880 | 9.880 | (0.971) | 736567 | 50.0000 | 50.62 |
| | 81 sec-Butylbenzene | 105 | 10.022 | 10.022 | (0.985) | 880641 | 50.0000 | 50.84 |
| | 82 p-Isopropyltoluene | 119 | 10.146 | 10.146 | (0.997) | 749888 | 50.0000 | 51.67 |
| | 83 1,3-Dichlorobenzene | 146 | 10.116 | 10.116 | (0.994) | 535003 | 50.0000 | 48.31 |
| | 84 1,4-Dichlorobenzene | 146 | 10.191 | 10.191 | (1.002) | 560423 | 50.0000 | 47.46 |
| | 87 n-Butylbenzene | 91 | 10.495 | 10.495 | (1.032) | 640684 | 50.0000 | 51.57 |
| | 88 1,2-Dichlorobenzene | 146 | 10.506 | 10.506 | (1.033) | 535531 | 50.0000 | 48.23 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 89 | 1,2-Dibromo-3-Chloropropane | 155 | 11.169 | 11.169 (1.098) | 53478 | 50.0000 | 50.41 |
| 90 | 1,2,4-Trichlorobenzene | 180 | 11.859 | 11.859 (1.166) | 362824 | 50.0000 | 47.50 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 91 | Hexachlorobutadiene | 225 | 11.998 | 11.998 | (1.179) | 150747 | 50.0000 | 48.87 |
| 92 | Naphthalene | 128 | 12.065 | 12.065 | (1.186) | 929686 | 50.0000 | 52.40 |
| 93 | 1,2,3-Trichlorobenzene | 180 | 12.268 | 12.268 | (1.206) | 351535 | 50.0000 | 47.08 |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 444012 | 100.000 | (a) |
| 135 | 1,4-Dioxane | 88 | 6.172 | 6.172 | (1.281) | 65722 | 1000.00 | 673.83 |
| 141 | Cyclohexane | 56 | 4.785 | 4.785 | (0.993) | 281116 | 50.0000 | 46.64 |
| 138 | Freon TF | 101 | 2.337 | 2.337 | (0.485) | 184491 | 50.0000 | 55.92 |
| 140 | 1,3-Butadiene | 54 | 1.408 | 1.408 | (0.292) | 227211 | 50.0000 | 48.84 |
| 147 | Methylcyclohexane | 55 | 5.951 | 5.951 | (1.072) | 515237 | 50.0000 | 52.17 |
| 146 | Methyl Acetate | 43 | 2.716 | 2.716 | (0.564) | 215922 | 50.0000 | 52.20 |
| 148 | Tert-Butyl alcohol | 59 | 2.971 | 2.971 | (0.617) | 511104 | 1000.00 | 1126.78 |
| 149 | Isopropyl Alcohol | 45 | 2.566 | 2.566 | (0.533) | 334133 | 1000.00 | 1040.54 |
| 72 | trans-1,4-Dichloro-2-butene | 53 | 9.377 | 9.377 | (1.146) | 47592 | 50.0000 | 58.55 |
| 12 | Isobutyl Alcohol | 43 | 5.291 | 5.291 | (1.098) | 717952 | 1000.00 | 1124.95 |
| 13 | Acetonitrile | 39 | 2.675 | 2.675 | (0.555) | 300946 | 500.000 | 565.89 |
| 14 | Allyl Chloride | 41 | 2.675 | 2.675 | (0.555) | 638401 | 50.0000 | 50.05 |
| 25 | Methacrylonitrile | 41 | 4.500 | 4.500 | (0.934) | 145036 | 50.0000 | 49.97 |
| 40 | Methyl Methacrylate | 41 | 6.161 | 6.161 | (1.278) | 223716 | 50.0000 | 52.97 |
| 4 | Propionitrile | 54 | 4.343 | 4.343 | (0.901) | 357500 | 500.000 | 503.66 |
| 136 | n-Hexane | 57 | 3.346 | 3.346 | (0.694) | 220516 | 50.0000 | 53.58 |
| 194 | Acetaldehyde | 44 | 1.464 | 1.464 | (0.304) | 129319 | 200.000 | 190.88(M) |
| 131 | Methyl Acrylate | 55 | 4.373 | 4.373 | (0.907) | 275788 | 50.0000 | 53.08 |
| 49 | Ethyl Methacrylate | 69 | 7.293 | 7.293 | (1.313) | 337862 | 50.0000 | 54.14 |
| 166 | 1,2,3-Trimethylbenzene | 105 | 10.236 | 10.236 | (1.006) | 724868 | 50.0000 | 48.79 |
| 156 | Diisopropyl ether | 45 | 3.627 | 3.627 | (0.753) | 710389 | 50.0000 | 51.86 |
| 162 | Butyl acrylate | 55 | 8.733 | 8.733 | (1.067) | 420977 | 50.0000 | 50.41 |
| 203 | 2-Ethylhexyl Acrylate | 55 | 12.043 | 12.043 | (1.184) | 191553 | 50.0000 | 51.53 |

QC Flag Legend

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




Data File: \\NAHSTMS005\Target\chem\voa9.i\U230619.b\U061903.D
Date : 19-JUN-2023 11:23
Client ID: CCV
Sample Info: CCV;CCV;2;;;
Purge Volume: 5.0
Column phase: DB624

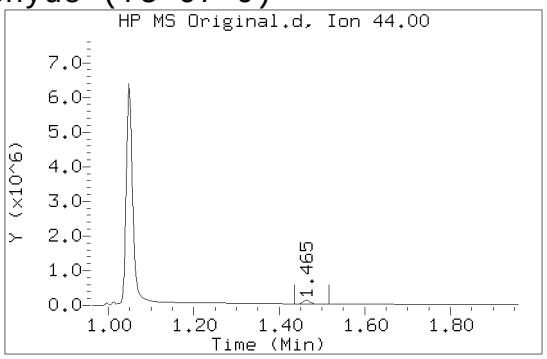
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Operator: PC
Column diameter: 0.18

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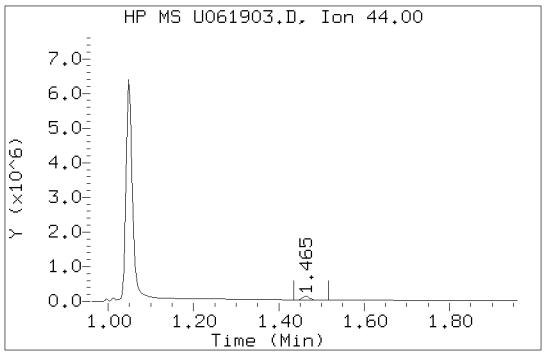
Acetaldehyde (75-07-0)

Reason Code:

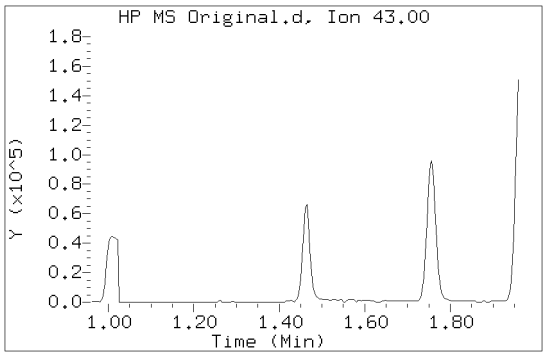
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44
AREA
129319
HEIGHT
107320
19-Jun-2023
20:48



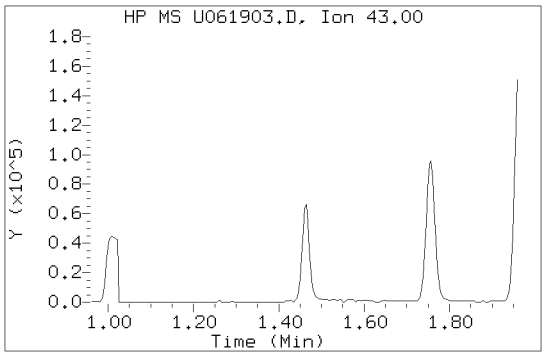

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44
AREA
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HEIGHT
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21-Jun-2023
17:00



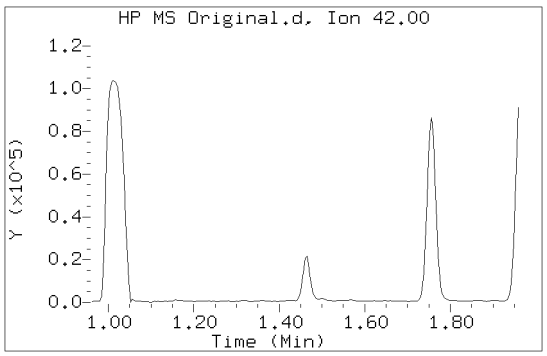

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19-Jun-2023
20:48



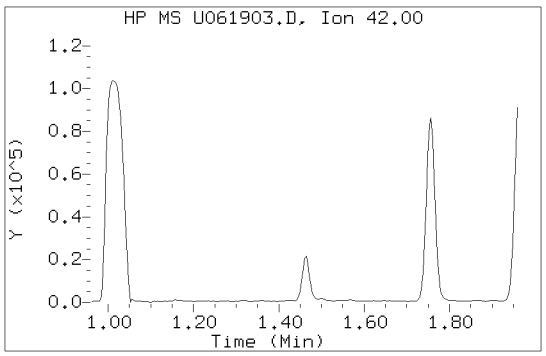

AFTER
MASS
43
AREA
0
HEIGHT
0
21-Jun-2023
17:00




BEFORE
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42
AREA
0
HEIGHT
0
19-Jun-2023
20:48




AFTER
MASS
42
AREA
0
HEIGHT
0
21-Jun-2023
17:00



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061904.D  Page 1
Report Date: 21-Jun-2023 17:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061904.D
Lab Smp Id: CCB  Client Smp ID: CCB
Inj Date  : 19-JUN-2023 11:45
Operator  : PC  Inst ID: VOA9.i
Smp Info  : CCB;CCB;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\8260C.m
Meth Date : 21-Jun-2023 17:01 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.815 | 4.819 | (1.000) | 559627 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.748 | 4.752 | (0.986) | 234535 | 49.9293 | 49.92 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.059) | 279829 | 55.1236 | 55.12 |
| * 36 1,4-Difluorobenzene | 114 | 5.554 | 5.554 | (1.000) | 765604 | 50.0000 | |
| * 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 682523 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.922 | 6.922 | (0.846) | 860848 | 55.7275 | 55.72 |
| $ 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 301151 | 49.4703 | 49.47 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 338473 | 50.0000 | |

01196715

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061904.D

Page 1

Date : 19-JUN-2023 11:45

Client ID: CCB

Instrument: VOA9.i

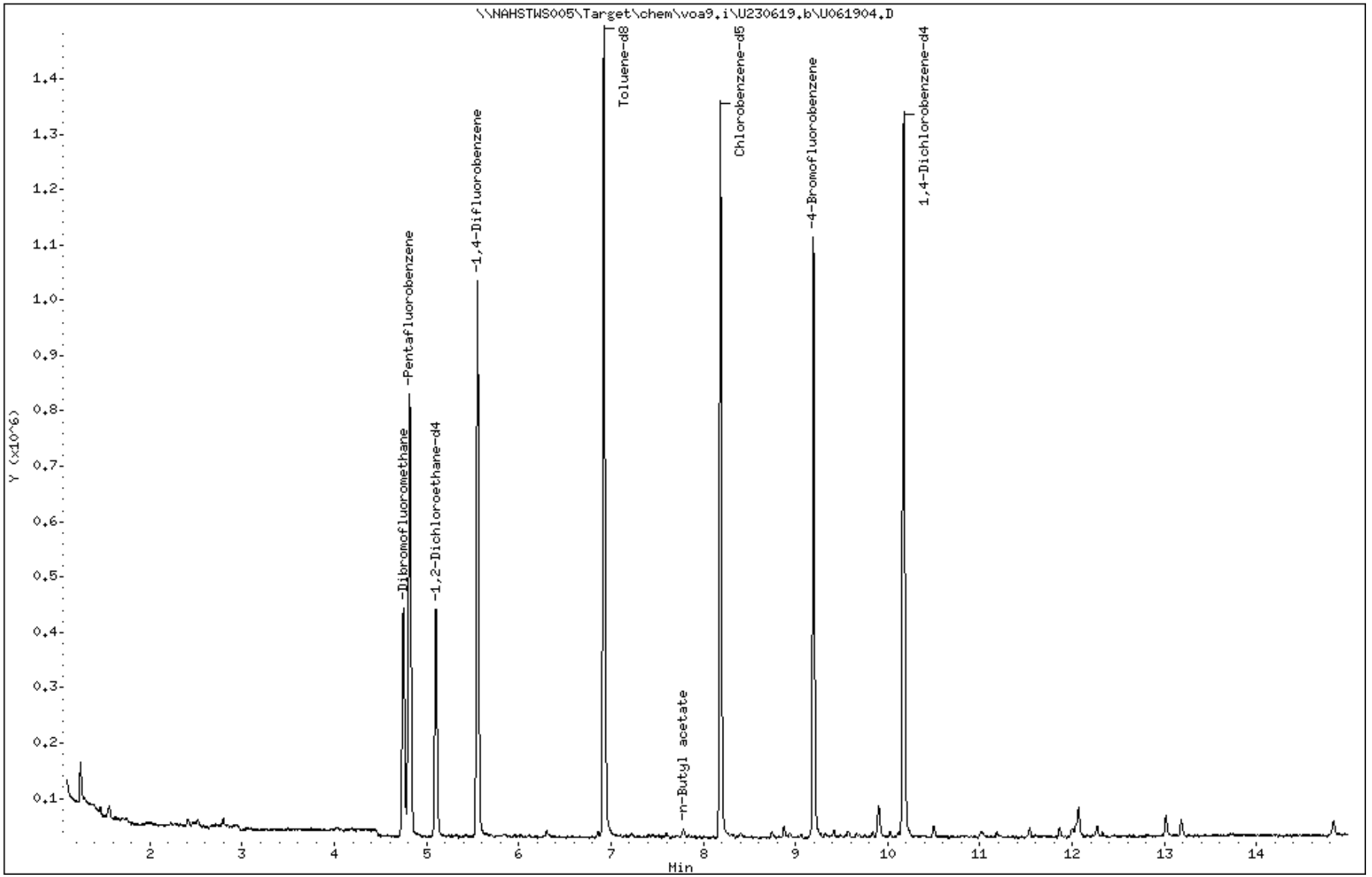
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Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date  : 19-JUN-2023 11:45
InstruID  : VOA9.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061905.D  Page 1
Report Date: 21-Jun-2023 17:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061905.D
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Operator  : PC  Inst ID: VOA9.i
Smp Info  : VLCSW-230619;VLCSW-230619;3;;LCS
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\8260C.m
Meth Date : 21-Jun-2023 17:01 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 4  QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.815 | 4.819 | (1.000) | 506560 | 50.0000 | |
| 2 Dichlorodifluoromethane | 85 | 1.164 | 1.168 | (0.242) | 88821 | 19.0271 | 19.02 |
| 3 Chloromethane | 50 | 1.295 | 1.299 | (0.269) | 132376 | 16.4451 | 16.44 |
| 5 Vinyl Chloride | 62 | 1.378 | 1.382 | (0.286) | 104285 | 19.4630 | 19.46 |
| 6 Bromomethane | 94 | 1.621 | 1.621 | (0.337) | 72976 | 25.6225 | 25.62 |
| 7 Chloroethane | 64 | 1.700 | 1.704 | (0.353) | 71575 | 19.8303 | 19.83 |
| 8 Trichlorofluoromethane | 101 | 1.895 | 1.899 | (0.394) | 139241 | 22.6265 | 22.62 |
| 9 Acrolein | 56 | 2.266 | 2.270 | (0.471) | 9278 | 34.5069 | 34.50 |
| 10 Acetone | 43 | 2.409 | 2.412 | (0.500) | 94792 | 51.8888 | 51.88(M) |
| 11 1,1-Dichloroethene | 96 | 2.334 | 2.337 | (0.485) | 75379 | 19.6040 | 19.60 |
| 15 Iodomethane | 142 | 2.469 | 2.472 | (0.513) | 125645 | 48.3785 | 48.37 |
| 16 Acrylonitrile | 53 | 3.068 | 3.068 | (0.637) | 77192 | 41.0909 | 41.09 |
| 17 Methylene Chloride | 84 | 2.795 | 2.799 | (0.580) | 102693 | 21.6592 | 21.65 |
| 18 Methyl tert-butyl ether | 73 | 3.080 | 3.083 | (0.640) | 248388 | 21.0656 | 21.06 |
| 19 Carbon Disulfide | 76 | 2.521 | 2.525 | (0.524) | 424638 | 41.3103 | 41.31 |
| 20 trans-1,2-Dichloroethene | 96 | 3.061 | 3.065 | (0.636) | 87301 | 20.8773 | 20.87 |
| 21 Vinyl Acetate | 43 | 3.608 | 3.612 | (0.749) | 552799 | 43.3673 | 43.36 |
| 22 1,1-Dichloroethane | 63 | 3.514 | 3.518 | (0.730) | 158807 | 19.9837 | 19.98 |
| 24 2-Butanone | 43 | 4.268 | 4.268 | (0.886) | 94360 | 40.8560 | 40.85 |
| 26 2,2-Dichloropropane | 77 | 4.185 | 4.186 | (0.869) | 112643 | 21.6666 | 21.66 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 27 cis-1,2-Dichloroethene | 96 | 4.197 | 4.201 (0.872) | 103516 | 20.6923 | 20.69 |
| 28 Chloroform | 83 | 4.575 | 4.575 (0.950) | 168927 | 20.4241 | 20.42 |

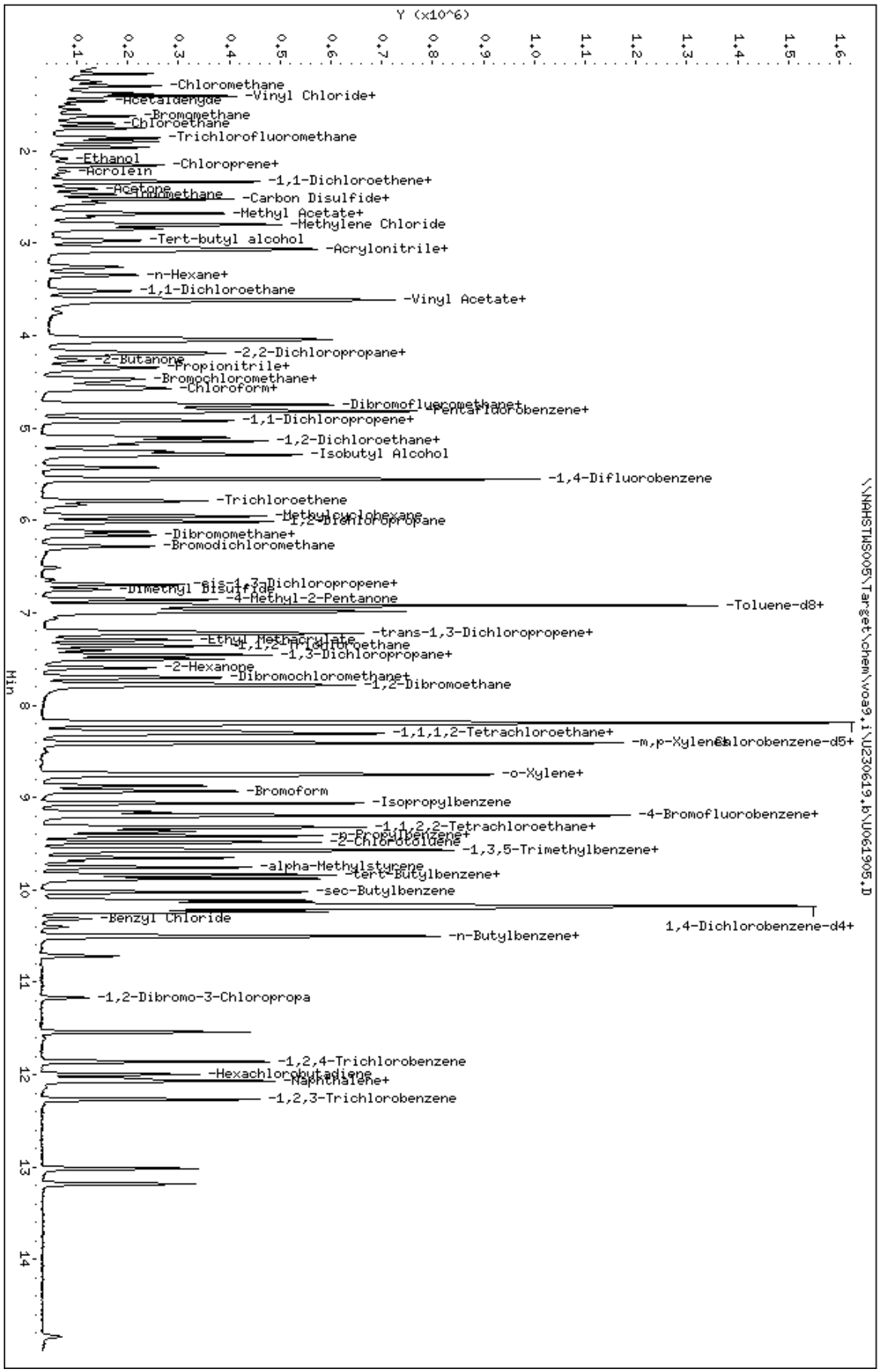
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 29 Bromochloromethane | 128 | 4.470 | 4.470 | (0.928) | 54801 | 19.5835 | 19.58 |
| $ | 30 Dibromofluoromethane | 113 | 4.748 | 4.752 | (0.986) | 212330 | 49.9376 | 49.93 |
| | 31 1,1,1-Trichloroethane | 97 | 4.744 | 4.744 | (0.985) | 132665 | 21.0449 | 21.04 |
| | 32 1,1-Dichloropropene | 75 | 4.924 | 4.924 | (0.887) | 111608 | 20.6285 | 20.62 |
| | 33 1,2-Dichloroethane | 62 | 5.179 | 5.179 | (0.933) | 148378 | 23.2216 | 23.22 |
| | 34 Carbon Tetrachloride | 117 | 4.913 | 4.913 | (0.885) | 106919 | 21.5139 | 21.51 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.059) | 245427 | 53.3903 | 53.39 |
| * | 36 1,4-Difluorobenzene | 114 | 5.554 | 5.554 | (1.000) | 738241 | 50.0000 | |
| | 37 Benzene | 78 | 5.138 | 5.141 | (0.925) | 364008 | 20.4625 | 20.46 |
| | 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.043) | 103370 | 20.0484 | 20.04 |
| | 39 Bromodichloromethane | 83 | 6.281 | 6.281 | (1.131) | 121347 | 21.8680 | 21.86 |
| | 42 1,2-Dichloropropane | 63 | 6.011 | 6.011 | (1.082) | 96587 | 20.3354 | 20.33 |
| | 44 Dibromomethane | 93 | 6.120 | 6.120 | (1.102) | 66586 | 21.9408 | 21.94 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.858 | 6.858 | (0.838) | 204750 | 40.3004 | 40.30 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.693 | 6.693 | (1.205) | 127625 | 18.4221 | 18.42 |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 697682 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.922 | (0.846) | 772623 | 48.9294 | 48.92 |
| | 50 Toluene | 91 | 6.982 | 6.982 | (0.853) | 396911 | 20.9752 | 20.97 |
| | 51 trans-1,3-Dichloropropene | 75 | 7.199 | 7.199 | (1.296) | 108566 | 18.7163 | 18.71 |
| | 52 2-Hexanone | 43 | 7.593 | 7.593 | (0.928) | 136211 | 38.4974 | 38.49 |
| | 53 1,1,2-Trichloroethane | 83 | 7.357 | 7.357 | (0.899) | 79262 | 20.1311 | 20.13 |
| | 54 1,3-Dichloropropane | 76 | 7.499 | 7.499 | (0.916) | 166270 | 20.6693 | 20.66 |
| | 55 Dibromochloromethane | 129 | 7.694 | 7.694 | (0.940) | 101981 | 21.8297 | 21.82 |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 93548 | 20.2908 | 20.29 |
| | 57 1,2-Dibromoethane | 107 | 7.788 | 7.788 | (0.951) | 98913 | 20.3651 | 20.36 |
| | 58 1-Chlorohexane | 55 | 8.197 | 8.197 | (1.476) | 75096 | 19.8102 | 19.81 |
| | 59 Chlorobenzene | 112 | 8.212 | 8.212 | (1.003) | 270350 | 20.0182 | 20.01 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 8.287 | 8.287 | (1.012) | 100178 | 21.5821 | 21.58 |
| | 61 Ethylbenzene | 106 | 8.309 | 8.309 | (1.015) | 126885 | 20.1862 | 20.18 |
| | 62 m,p-Xylenes | 106 | 8.410 | 8.410 | (1.027) | 306673 | 41.2374 | 41.23 |
| | 63 o-Xylene | 106 | 8.748 | 8.748 | (1.069) | 149251 | 20.3152 | 20.31 |
| | 64 Styrene | 104 | 8.763 | 8.763 | (1.071) | 249775 | 21.4232 | 21.42 |
| | 66 Bromoform | 173 | 8.920 | 8.920 | (1.090) | 65292 | 20.7055 | 20.70 |
| | 67 Isopropylbenzene | 105 | 9.063 | 9.063 | (1.107) | 377802 | 21.4099 | 21.40 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 9.329 | 9.329 | (0.917) | 133590 | 19.1644 | 19.16 |
| $ | 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 319282 | 51.3428 | 51.34 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 370582 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 9.362 | 9.362 | (0.920) | 114378 | 18.6514 | 18.65 |
| | 73 n-Propylbenzene | 91 | 9.411 | 9.411 | (0.925) | 396831 | 20.4150 | 20.41 |
| | 74 Bromobenzene | 156 | 9.317 | 9.318 | (0.916) | 121219 | 19.3866 | 19.38 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.561 | 9.561 | (0.940) | 262281 | 19.6679 | 19.66 |
| | 76 2-Chlorotoluene | 91 | 9.482 | 9.482 | (0.932) | 280548 | 20.5313 | 20.53 |
| | 77 4-Chlorotoluene | 91 | 9.576 | 9.576 | (0.941) | 315317 | 20.8474 | 20.84 |
| | 78 tert-Butylbenzene | 119 | 9.838 | 9.839 | (0.967) | 259910 | 19.8439 | 19.84 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.880 | 9.880 | (0.971) | 280453 | 20.0995 | 20.09 |
| | 81 sec-Butylbenzene | 105 | 10.022 | 10.022 | (0.985) | 329959 | 19.8649 | 19.86 |
| | 82 p-Isopropyltoluene | 119 | 10.146 | 10.146 | (0.997) | 278338 | 20.0020 | 20.00 |
| | 83 1,3-Dichlorobenzene | 146 | 10.116 | 10.116 | (0.994) | 205085 | 19.3114 | 19.31 |
| | 84 1,4-Dichlorobenzene | 146 | 10.191 | 10.191 | (1.002) | 216099 | 19.0850 | 19.08 |
| | 87 n-Butylbenzene | 91 | 10.495 | 10.495 | (1.032) | 232704 | 19.5340 | 19.53 |
| | 88 1,2-Dichlorobenzene | 146 | 10.506 | 10.506 | (1.033) | 211218 | 19.8366 | 19.83 |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 11.169 | 11.169 | (1.098) | 18055 | 17.7498 | 17.74 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 90 1,2,4-Trichlorobenzene | 180 | 11.859 | 11.859 (1.166) | 134172 | 18.3197 | 18.31 |
| 91 Hexachlorobutadiene | 225 | 11.998 | 11.998 (1.179) | 56918 | 19.2439 | 19.24 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 92 Naphthalene | 128 | 12.069 | 12.065 | (1.186) | 321254 | 18.8834 | 18.88 |
| | 93 1,2,3-Trichlorobenzene | 180 | 12.268 | 12.268 | (1.206) | 134860 | 18.8355 | 18.83 |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 190817 | 41.5696 | 41.56 |
| M | 95 Xylenes (total) | 106 | | | | 455924 | 61.5526 | 61.55 |
| | 135 1,4-Dioxane | 88 | 6.172 | 6.172 | (1.282) | 24369 | 242.275 | 242.27 |
| | 141 Cyclohexane | 56 | 4.782 | 4.785 | (0.993) | 119843 | 19.6673 | 19.66 |
| | 138 Freon TF | 101 | 2.334 | 2.337 | (0.485) | 73790 | 21.6896 | 21.68 |
| | 140 1,3-Butadiene | 54 | 1.404 | 1.408 | (0.292) | 91320 | 19.0356 | 19.03 |
| | 147 Methylcyclohexane | 55 | 5.951 | 5.951 | (1.072) | 209438 | 20.4512 | 20.45 |
| | 146 Methyl Acetate | 43 | 2.712 | 2.716 | (0.563) | 85416 | 20.0259 | 20.02 |
| | 148 Tert-Butyl alcohol | 59 | 2.967 | 2.971 | (0.616) | 203228 | 431.407 | 431.40 |
| | 149 Isopropyl Alcohol | 45 | 2.566 | 2.566 | (0.533) | 125251 | 378.227 | 378.22 |
| | 72 trans-1,4-Dichloro-2-butene | 53 | 9.377 | 9.377 | (1.146) | 14957 | 18.6190 | 18.61 |
| | 12 Isobutyl Alcohol | 43 | 5.291 | 5.291 | (1.099) | 317612 | 482.574 | 482.57 |
| | 13 Acetonitrile | 39 | 2.671 | 2.675 | (0.555) | 123038 | 224.345 | 224.34 |
| | 14 Allyl Chloride | 41 | 2.675 | 2.675 | (0.556) | 253639 | 19.2859 | 19.28 |
| | 25 Methacrylonitrile | 41 | 4.497 | 4.500 | (0.934) | 55106 | 18.4125 | 18.41 |
| | 40 Methyl Methacrylate | 41 | 6.157 | 6.161 | (1.279) | 88289 | 20.2707 | 20.27 |
| | 4 Propionitrile | 54 | 4.339 | 4.343 | (0.901) | 144934 | 197.999 | 197.99(a) |
| | 136 n-Hexane | 57 | 3.342 | 3.346 | (0.694) | 85435 | 20.6328 | 20.63 |
| | 194 Acetaldehyde | 44 | 1.460 | 1.464 | (0.303) | 49987 | 71.5486 | 71.54(M) |
| | 131 Methyl Acrylate | 55 | 4.369 | 4.373 | (0.907) | 106983 | 19.9693 | 19.96 |
| | 49 Ethyl Methacrylate | 69 | 7.293 | 7.293 | (1.313) | 123333 | 19.0583 | 19.05 |
| | 166 1,2,3-Trimethylbenzene | 105 | 10.236 | 10.236 | (1.006) | 281853 | 19.7864 | 19.78 |
| | 156 Diisopropyl ether | 45 | 3.623 | 3.627 | (0.752) | 291198 | 20.6161 | 20.61 |
| | 162 Butyl acrylate | 55 | 8.736 | 8.733 | (1.067) | 151724 | 18.3846 | 18.38 |
| | 203 2-Ethylhexyl Acrylate | 55 | 12.043 | 12.043 | (1.184) | 75460 | 22.8092 | 22.80 |

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\voa9,i\U230619,b\U061905,D
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Sample Info: VLCSW-230619;VLCSW-230619;3;;LCS
Purge Volume: 5.0
Column phase: DB624

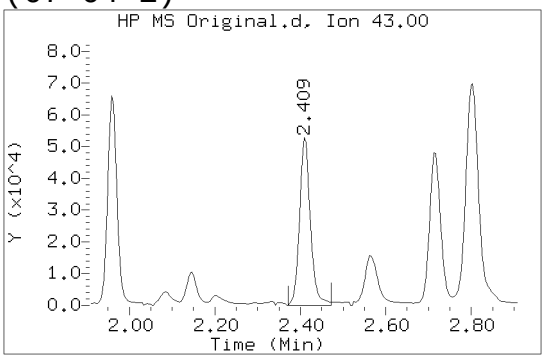
Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061905.D
Inj Date : 19-JUN-2023 12:07
InstruID : VOA9.i
LabSampID : VLCSW-230619

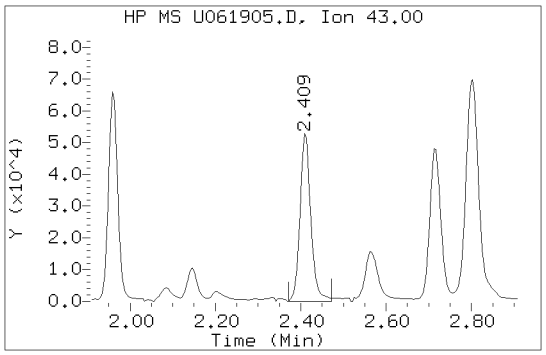
## Acetone (67-64-1)

Reason Code:

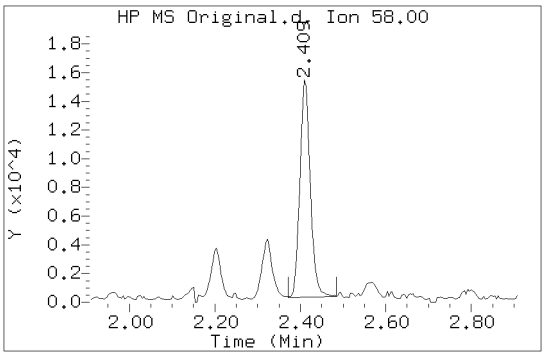
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HEIGHT
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19-Jun-2023
20:51



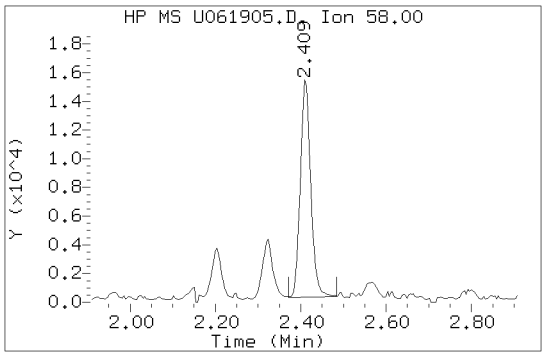

**AFTER**
MASS
43
AREA
94792
HEIGHT
52992
21-Jun-2023
17:00




**BEFORE**
MASS
58
AREA
26205
HEIGHT
15149
19-Jun-2023
20:51



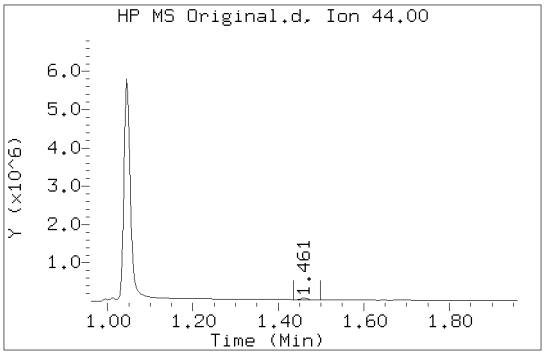

**AFTER**
MASS
58
AREA
26205
HEIGHT
15149
21-Jun-2023
17:00



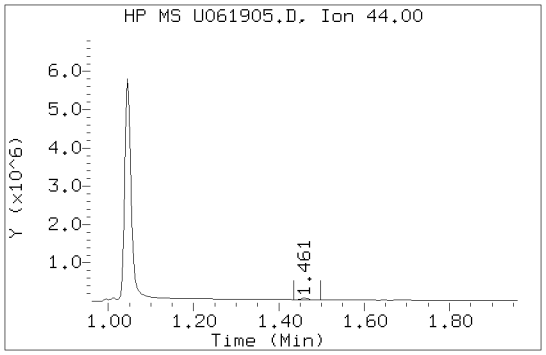

## Acetaldehyde (75-07-0)

Reason Code:

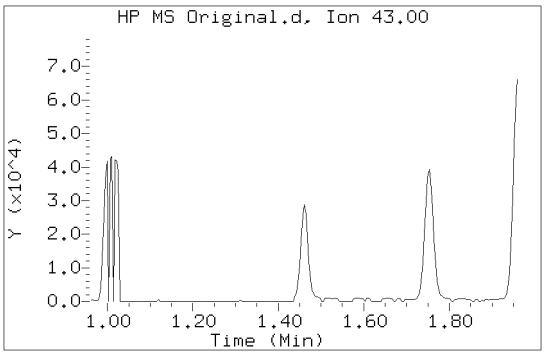
**BEFORE**
MASS
44
AREA
49987
HEIGHT
43685
19-Jun-2023
20:51



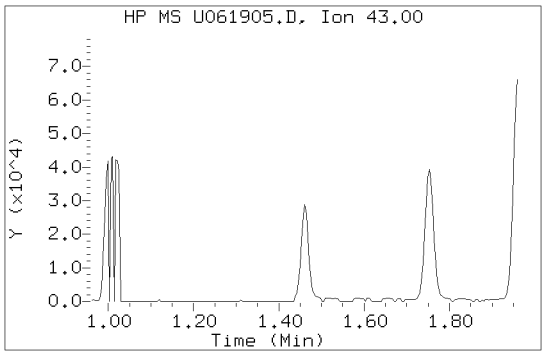

**AFTER**
MASS
44
AREA
49987
HEIGHT
43685
21-Jun-2023
17:00




**BEFORE**
MASS
43
AREA
0
HEIGHT
0
19-Jun-2023
20:51




**AFTER**
MASS
43
AREA
0
HEIGHT
0
21-Jun-2023
17:00



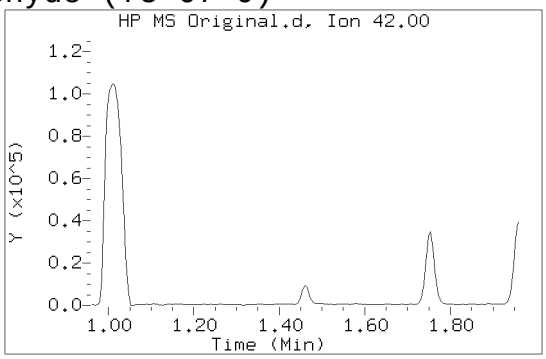
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Inj Date : 19-JUN-2023 12:07
InstruID : VOA9.i
LabSampID : VLCSW-230619

Acetaldehyde (75-07-0)

Reason Code:

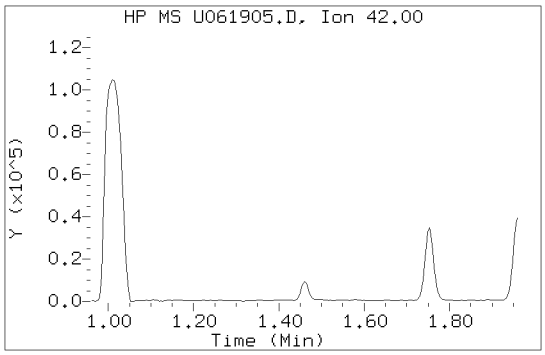
BEFORE

MASS
42
AREA
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HEIGHT
0
19-Jun-2023
20:51




AFTER

MASS
42
AREA
0
HEIGHT
0
21-Jun-2023
17:00



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061907.D  Page 1
Report Date: 21-Jun-2023 17:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061907.D
Lab Smp Id: VBLKW-230619  Client Smp ID: VBLKW-230619
Inj Date  : 19-JUN-2023 12:52
Operator  : PC  Inst ID: VOA9.i
Smp Info  : VBLKW-230619;VBLKW-230619;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\8260C.m
Meth Date : 21-Jun-2023 17:01 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 6  QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.815 | 4.819 | (1.000) | 555065 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.748 | 4.752 | (0.986) | 234909 | 50.4231 | 50.42 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 5.096 | 5.100 | (1.058) | 283744 | 56.3695 | 56.36 |
| * 36 1,4-Difluorobenzene | 114 | 5.554 | 5.554 | (1.000) | 765551 | 50.0000 | |
| * 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 679035 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.922 | 6.922 | (0.846) | 858148 | 55.8380 | 55.83 |
| $ 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 288738 | 47.6419 | 47.64 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 329549 | 50.0000 | |

01196726

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061907.D



Date : 19-JUN-2023 12:52

Client ID: VBLKW-230619

Instrument: VOA9.i

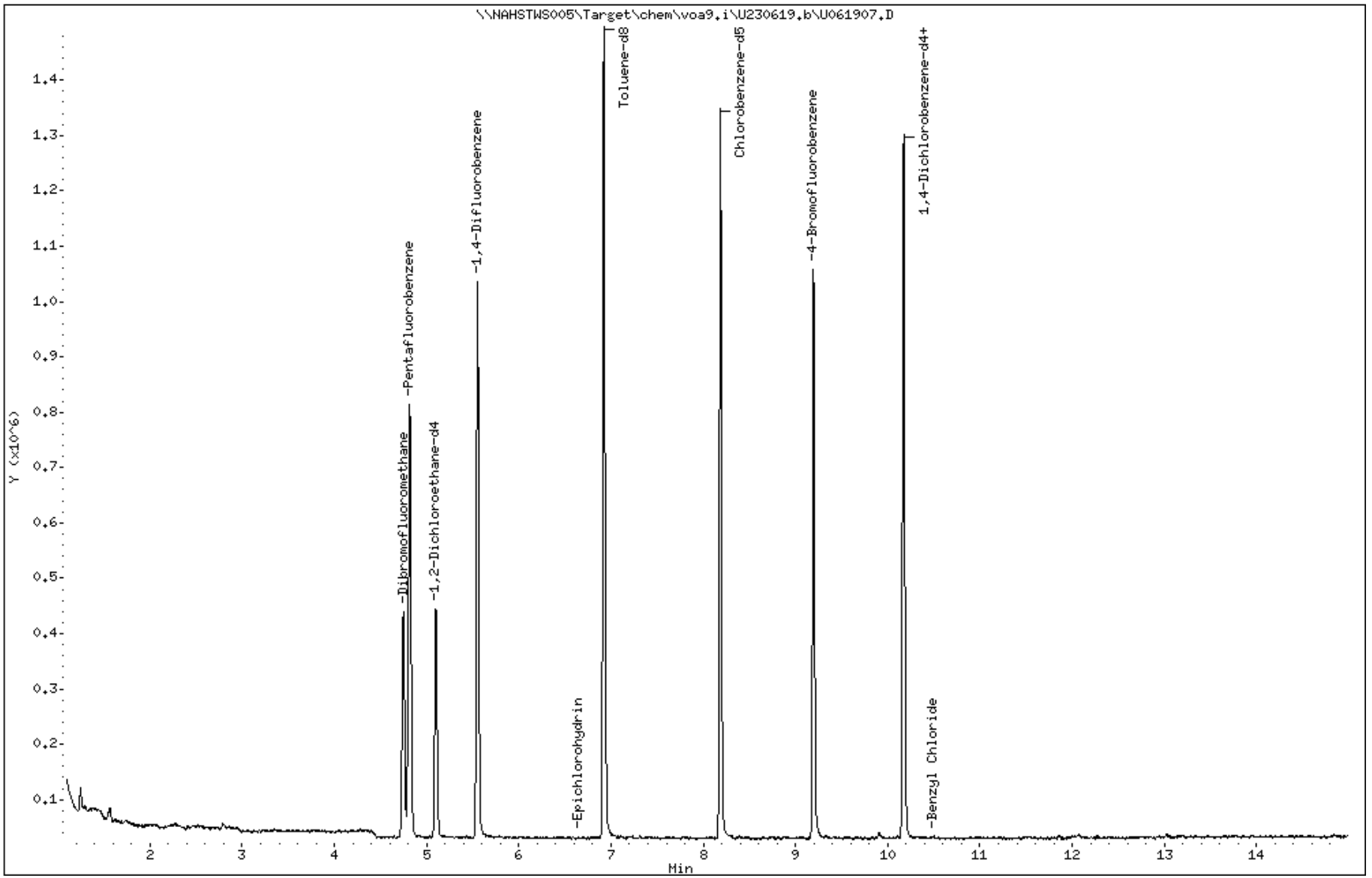
Sample Info: VBLKW-230619;VBLKW-230619;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061907.D
Inj Date  : 19-JUN-2023 12:52
InstruID  : VOA9.i
LabSampID : VBLKW-230619

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061912.D Page 1
Report Date: 21-Jun-2023 17:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061912.D
Lab Smp Id: HS23061152-01MS Client Smp ID: HS23061152-01MS
Inj Date : 19-JUN-2023 14:44
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061152-01MS;HS23061152-01MS;3;;MS
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\8260C.m
Meth Date : 21-Jun-2023 17:01 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
Als bottle: 11 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.815 | 4.819 | (1.000) | 581278 | 50.0000 | |
| 2 | Dichlorodifluoromethane | 85 | 1.160 | 1.168 | (0.241) | 106668 | 19.9093 | 19.90 |
| 3 | Chloromethane | 50 | 1.295 | 1.299 | (0.269) | 153076 | 16.5826 | 16.58 |
| 5 | Vinyl Chloride | 62 | 1.374 | 1.382 | (0.285) | 120166 | 19.5441 | 19.54 |
| 6 | Bromomethane | 94 | 1.617 | 1.621 | (0.336) | 75846 | 23.0337 | 23.03 |
| 7 | Chloroethane | 64 | 1.696 | 1.704 | (0.352) | 80526 | 19.4424 | 19.44 |
| 8 | Trichlorofluoromethane | 101 | 1.895 | 1.899 | (0.394) | 183351 | 25.9645 | 25.96 |
| 9 | Acrolein | 56 | 2.266 | 2.270 | (0.471) | 8106 | 26.2728 | 26.27 |
| 10 | Acetone | 43 | 2.408 | 2.412 | (0.500) | 115142 | 55.2607 | 55.26 |
| 11 | 1,1-Dichloroethene | 96 | 2.333 | 2.337 | (0.485) | 92237 | 20.9048 | 20.90 |
| 15 | Iodomethane | 142 | 2.468 | 2.472 | (0.513) | 112188 | 39.9699 | 39.96 |
| 16 | Acrylonitrile | 53 | 3.064 | 3.068 | (0.636) | 80555 | 37.3691 | 37.36 |
| 17 | Methylene Chloride | 84 | 2.794 | 2.799 | (0.580) | 103245 | 18.8493 | 18.84 |
| 18 | Methyl tert-butyl ether | 73 | 3.079 | 3.083 | (0.640) | 274369 | 20.2780 | 20.27 |
| 19 | Carbon Disulfide | 76 | 2.521 | 2.525 | (0.524) | 597583 | 50.6622 | 50.66 |
| 20 | trans-1,2-Dichloroethene | 96 | 3.057 | 3.065 | (0.635) | 97456 | 20.3100 | 20.31 |
| 21 | Vinyl Acetate | 43 | 3.608 | 3.612 | (0.749) | 564517 | 38.5940 | 38.59 |
| 22 | 1,1-Dichloroethane | 63 | 3.514 | 3.518 | (0.730) | 173381 | 19.0132 | 19.01 |
| 24 | 2-Butanone | 43 | 4.268 | 4.268 | (0.886) | 201443 | 76.0094 | 76.00 |
| 26 | 2,2-Dichloropropane | 77 | 4.181 | 4.186 | (0.868) | 134302 | 22.4965 | 22.49 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 27 | cis-1,2-Dichloroethene | 96 | 4.196 | 4.201 (0.872) | 112087 | 19.5256 | 19.52 |
| 28 | Chloroform | 83 | 4.575 | 4.575 (0.950) | 189014 | 19.9152 | 19.91 |

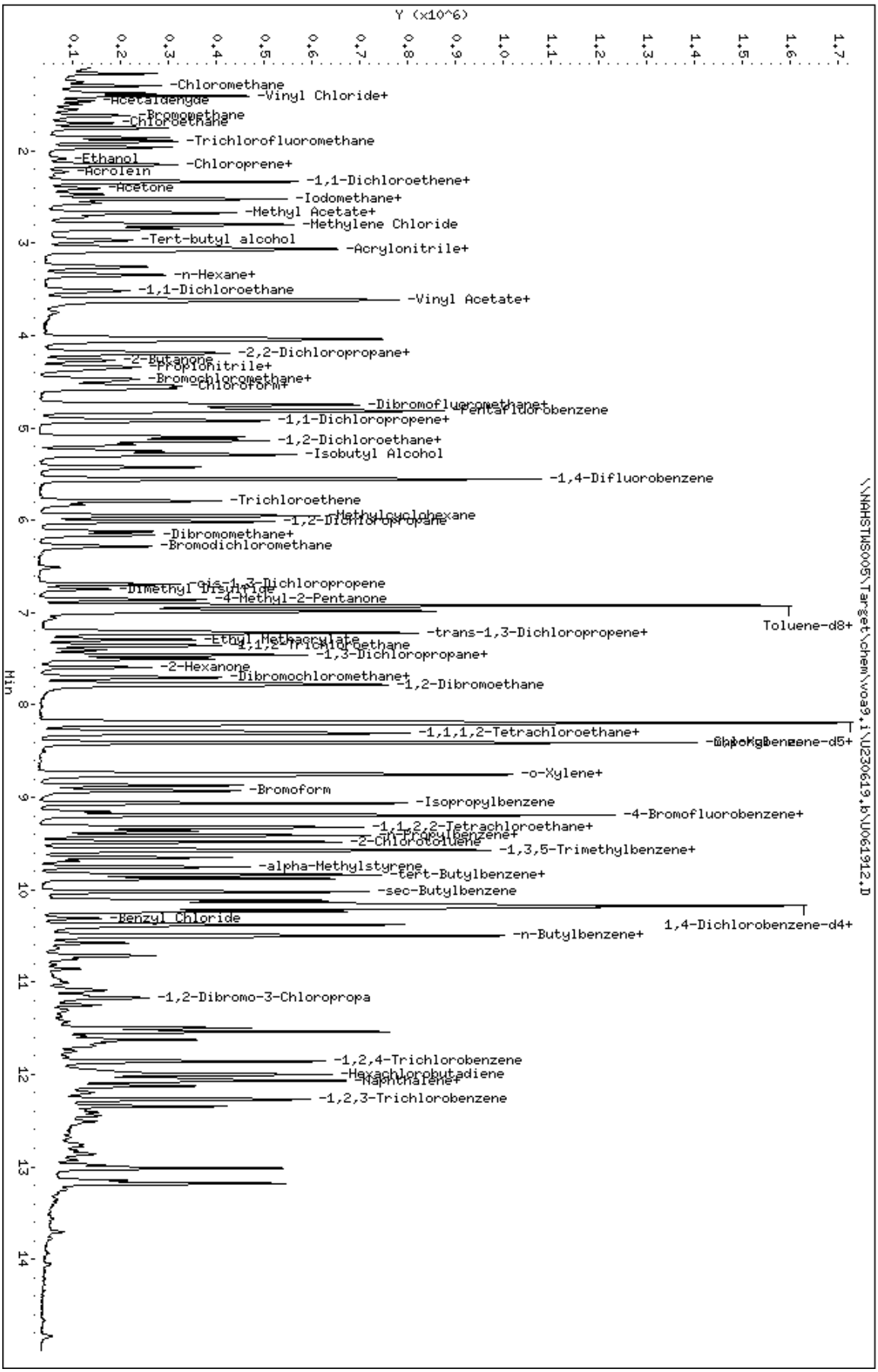
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | CONCENTRATIONS FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 29 Bromochloromethane | 128 | 4.470 | 4.470 | (0.928) | 58880 | 18.3365 | 18.33 |
| $ | 30 Dibromofluoromethane | 113 | 4.747 | 4.752 | (0.986) | 248161 | 50.8682 | 50.86 |
| | 31 1,1,1-Trichloroethane | 97 | 4.744 | 4.744 | (0.985) | 162572 | 22.4742 | 22.47 |
| | 32 1,1-Dichloropropene | 75 | 4.924 | 4.924 | (0.887) | 138215 | 23.8494 | 23.84 |
| | 33 1,2-Dichloroethane | 62 | 5.178 | 5.179 | (0.933) | 156985 | 22.9367 | 22.93 |
| | 34 Carbon Tetrachloride | 117 | 4.912 | 4.913 | (0.885) | 137405 | 25.8116 | 25.81 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.059) | 284898 | 54.0182 | 54.01 |
| * | 36 1,4-Difluorobenzene | 114 | 5.553 | 5.554 | (1.000) | 790767 | 50.0000 | |
| | 37 Benzene | 78 | 5.141 | 5.141 | (0.926) | 397238 | 20.8472 | 20.84 |
| | 38 Trichloroethene | 130 | 5.789 | 5.790 | (1.043) | 117932 | 21.3534 | 21.35 |
| | 39 Bromodichloromethane | 83 | 6.281 | 6.281 | (1.131) | 129097 | 21.7193 | 21.71 |
| | 42 1,2-Dichloropropane | 63 | 6.011 | 6.011 | (1.082) | 101836 | 20.0163 | 20.01 |
| | 44 Dibromomethane | 93 | 6.119 | 6.120 | (1.102) | 71877 | 22.1111 | 22.11 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.858 | 6.858 | (0.838) | 206308 | 39.1008 | 39.10 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.693 | 6.693 | (1.205) | 133995 | 18.0948 | 18.09 |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 724559 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.922 | (0.846) | 919184 | 56.0517 | 56.05 |
| | 50 Toluene | 91 | 6.982 | 6.982 | (0.853) | 460740 | 23.4451 | 23.44 |
| | 51 trans-1,3-Dichloropropene | 75 | 7.199 | 7.199 | (1.296) | 116670 | 18.7708 | 18.77 |
| | 52 2-Hexanone | 43 | 7.593 | 7.593 | (0.928) | 137830 | 37.5099 | 37.50 |
| | 53 1,1,2-Trichloroethane | 83 | 7.356 | 7.357 | (0.899) | 82882 | 20.2697 | 20.26 |
| | 54 1,3-Dichloropropane | 76 | 7.499 | 7.499 | (0.916) | 176979 | 21.1845 | 21.18 |
| | 55 Dibromochloromethane | 129 | 7.694 | 7.694 | (0.940) | 108999 | 22.4665 | 22.46 |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 118788 | 24.8097 | 24.80 |
| | 57 1,2-Dibromoethane | 107 | 7.784 | 7.788 | (0.951) | 103902 | 20.5988 | 20.59 |
| | 58 1-Chlorohexane | 55 | 8.196 | 8.197 | (1.476) | 97605 | 24.0377 | 24.03 |
| | 59 Chlorobenzene | 112 | 8.211 | 8.212 | (1.003) | 303581 | 21.6450 | 21.64 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 8.286 | 8.287 | (1.012) | 106753 | 22.1455 | 22.14 |
| | 61 Ethylbenzene | 106 | 8.309 | 8.309 | (1.015) | 150535 | 23.0603 | 23.06 |
| | 62 m,p-Xylenes | 106 | 8.410 | 8.410 | (1.027) | 355712 | 46.0573 | 46.05 |
| | 63 o-Xylene | 106 | 8.747 | 8.748 | (1.069) | 169907 | 22.2689 | 22.26 |
| | 64 Styrene | 104 | 8.762 | 8.763 | (1.071) | 272286 | 22.4876 | 22.48 |
| | 66 Bromoform | 173 | 8.920 | 8.920 | (1.090) | 74361 | 22.7067 | 22.70 |
| | 67 Isopropylbenzene | 105 | 9.062 | 9.063 | (1.107) | 455145 | 24.8361 | 24.83 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 9.328 | 9.329 | (0.917) | 138500 | 19.2056 | 19.20 |
| $ | 69 4-Bromofluorobenzene | 95 | 9.193 | 9.194 | (1.123) | 327886 | 50.7604 | 50.76 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 383379 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 9.362 | 9.362 | (0.920) | 122644 | 19.3318 | 19.33 |
| | 73 n-Propylbenzene | 91 | 9.411 | 9.411 | (0.925) | 479339 | 23.8365 | 23.83 |
| | 74 Bromobenzene | 156 | 9.317 | 9.318 | (0.916) | 129768 | 20.0611 | 20.06 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.564 | 9.561 | (0.940) | 306964 | 22.2502 | 22.25 |
| | 76 2-Chlorotoluene | 91 | 9.482 | 9.482 | (0.932) | 320696 | 22.6860 | 22.68 |
| | 77 4-Chlorotoluene | 91 | 9.576 | 9.576 | (0.941) | 357307 | 22.8350 | 22.83 |
| | 78 tert-Butylbenzene | 119 | 9.838 | 9.839 | (0.967) | 325509 | 24.0228 | 24.02 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.879 | 9.880 | (0.971) | 301633 | 20.8958 | 20.89 |
| | 81 sec-Butylbenzene | 105 | 10.022 | 10.022 | (0.985) | 426226 | 24.8040 | 24.80 |
| | 82 p-Isopropyltoluene | 119 | 10.145 | 10.146 | (0.997) | 346774 | 24.0882 | 24.08 |
| | 83 1,3-Dichlorobenzene | 146 | 10.115 | 10.116 | (0.994) | 229807 | 20.9170 | 20.91 |
| | 84 1,4-Dichlorobenzene | 146 | 10.190 | 10.191 | (1.002) | 243535 | 20.7901 | 20.79 |
| | 87 n-Butylbenzene | 91 | 10.494 | 10.495 | (1.032) | 307340 | 24.9380 | 24.93 |
| | 88 1,2-Dichlorobenzene | 146 | 10.505 | 10.506 | (1.033) | 233276 | 21.1769 | 21.17 |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 11.169 | 11.169 | (1.098) | 19799 | 18.8146 | 18.81 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 90 1,2,4-Trichlorobenzene | 180 | 11.859 | 11.859 (1.166) | 156989 | 20.7196 | 20.71 |
| 91 Hexachlorobutadiene | 225 | 11.997 | 11.998 (1.179) | 85513 | 27.9468 | 27.94 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 92 Naphthalene | 128 | 12.069 | 12.065 | (1.186) | 378609 | 21.5119 | 21.51 |
| | 93 1,2,3-Trichlorobenzene | 180 | 12.267 | 12.268 | (1.206) | 152723 | 20.6184 | 20.61 |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 209543 | 39.8356 | 39.83 |
| M | 95 Xylenes (total) | 106 | | | | 525619 | 68.3262 | 68.32 |
| | 135 1,4-Dioxane | 88 | 6.168 | 6.172 | (1.281) | 23807 | 206.264 | 206.26 |
| | 141 Cyclohexane | 56 | 4.781 | 4.785 | (0.993) | 158094 | 22.5480 | 22.54 |
| | 138 Freon TF | 101 | 2.333 | 2.337 | (0.485) | 100828 | 25.8274 | 25.82 |
| | 140 1,3-Butadiene | 54 | 1.404 | 1.408 | (0.292) | 107830 | 19.5879 | 19.58 |
| | 147 Methylcyclohexane | 55 | 5.947 | 5.951 | (1.071) | 257112 | 23.4388 | 23.43 |
| | 146 Methyl Acetate | 43 | 2.712 | 2.716 | (0.563) | 88916 | 18.1669 | 18.16 |
| | 148 Tert-Butyl alcohol | 59 | 2.970 | 2.971 | (0.617) | 196045 | 361.876 | 361.87 |
| | 149 Isopropyl Alcohol | 45 | 2.562 | 2.566 | (0.532) | 129950 | 341.975 | 341.97 |
| | 72 trans-1,4-Dichloro-2-butene | 53 | 9.377 | 9.377 | (1.146) | 16284 | 19.5189 | 19.51 |
| | 12 Isobutyl Alcohol | 43 | 5.287 | 5.291 | (1.098) | 287044 | 380.069 | 380.06 |
| | 13 Acetonitrile | 39 | 2.671 | 2.675 | (0.555) | 144997 | 230.400 | 230.40 |
| | 14 Allyl Chloride | 41 | 2.671 | 2.675 | (0.555) | 283567 | 18.7900 | 18.78 |
| | 25 Methacrylonitrile | 41 | 4.496 | 4.500 | (0.934) | 59650 | 17.3689 | 17.36 |
| | 40 Methyl Methacrylate | 41 | 6.157 | 6.161 | (1.279) | 97186 | 19.4452 | 19.44 |
| | 4 Propionitrile | 54 | 4.339 | 4.343 | (0.901) | 139521 | 166.104 | 166.10(a) |
| | 136 n-Hexane | 57 | 3.342 | 3.346 | (0.694) | 118551 | 24.8618 | 24.86 |
| | 194 Acetaldehyde | 44 | 1.456 | 1.464 | (0.302) | 44491 | 55.4962 | 55.49(M) |
| | 131 Methyl Acrylate | 55 | 4.372 | 4.373 | (0.908) | 115576 | 18.8002 | 18.80 |
| | 49 Ethyl Methacrylate | 69 | 7.293 | 7.293 | (1.313) | 142642 | 20.5779 | 20.57 |
| | 166 1,2,3-Trimethylbenzene | 105 | 10.235 | 10.236 | (1.006) | 311002 | 21.1039 | 21.10 |
| | 156 Diisopropyl ether | 45 | 3.623 | 3.627 | (0.752) | 325568 | 20.0866 | 20.08 |
| | 162 Butyl acrylate | 55 | 8.736 | 8.733 | (1.067) | 170879 | 19.9376 | 19.93 |
| | 203 2-Ethylhexyl Acrylate | 55 | 12.042 | 12.043 | (1.184) | 78512 | 22.9271 | 22.92 |

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\voa9,i\U230619,b\U061912.D
Date : 19-JUN-2023 14:44
Client ID: HS230611152-01MS
Sample Info: HS230611152-01MS;HS230611152-01MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

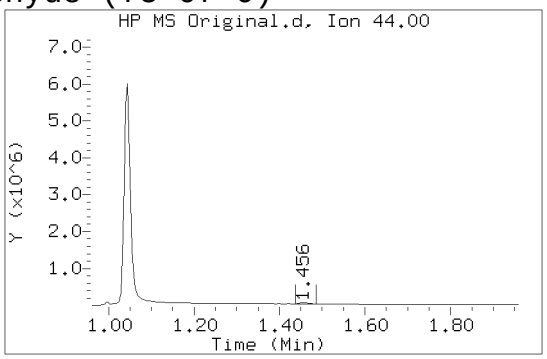
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061912.D
Inj Date : 19-JUN-2023 14:44
InstruID : VOA9.i
LabSampID : HS23061152-01MS

## Acetaldehyde (75-07-0)

Reason Code:

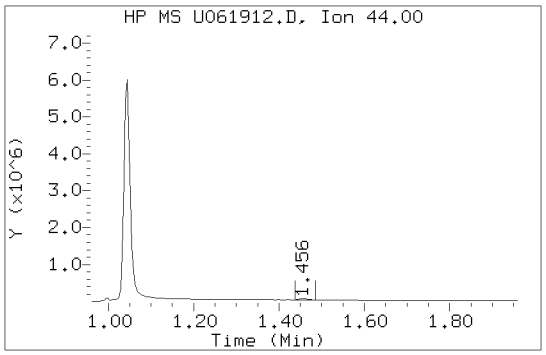
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HEIGHT
36427
20-Jun-2023
10:49
linh
pham



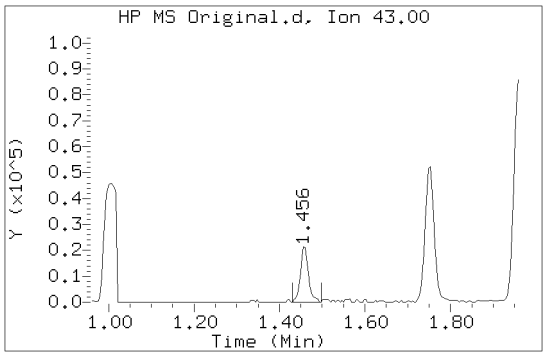

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21-Jun-2023
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linh
pham



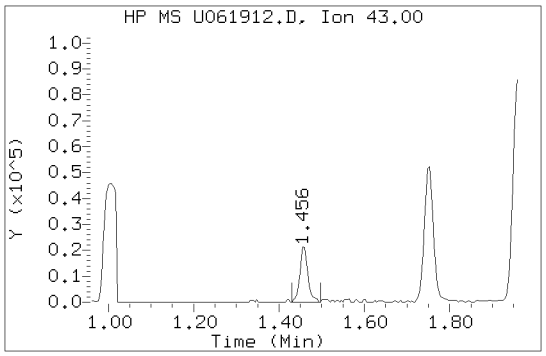

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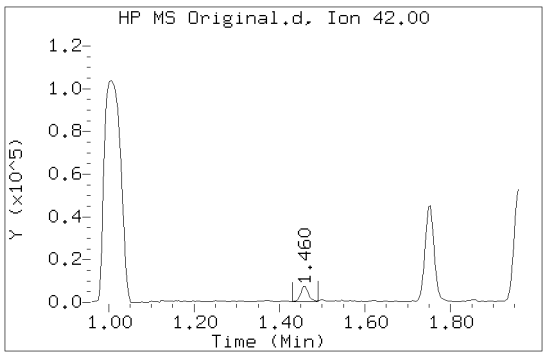

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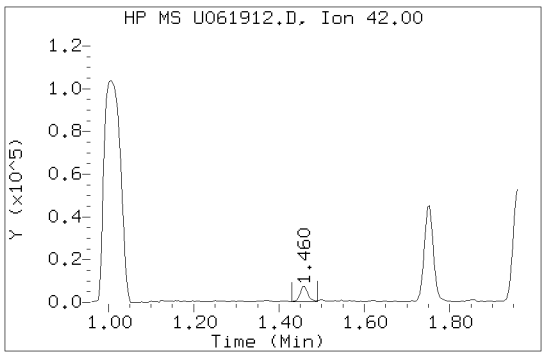

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20-Jun-2023
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### AFTER

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HEIGHT
7093
21-Jun-2023
17:00
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061913.D  Page 1
Report Date: 21-Jun-2023 17:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061913.D
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Inj Date  : 19-JUN-2023 15:07
Operator  : PC  Inst ID: VOA9.i
Smp Info  : HS23061152-01MSD;HS23061152-01MSD;3;;MSD
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\8260C.m
Meth Date : 21-Jun-2023 17:01 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 11  QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| * 1 | Pentafluorobenzene | 168 | 4.819 | 4.819 | (1.000) | 588090 | 50.0000 | |
| 2 | Dichlorodifluoromethane | 85 | 1.164 | 1.168 | (0.242) | 114336 | 21.0886 | 21.08 |
| 3 | Chloromethane | 50 | 1.299 | 1.299 | (0.270) | 160537 | 17.2388 | 17.23 |
| 5 | Vinyl Chloride | 62 | 1.377 | 1.382 | (0.286) | 130780 | 21.0240 | 21.02 |
| 6 | Bromomethane | 94 | 1.621 | 1.621 | (0.336) | 79054 | 23.7855 | 23.78 |
| 7 | Chloroethane | 64 | 1.704 | 1.704 | (0.354) | 85430 | 20.3875 | 20.38 |
| 8 | Trichlorofluoromethane | 101 | 1.899 | 1.899 | (0.394) | 186774 | 26.1429 | 26.14 |
| 9 | Acrolein | 56 | 2.266 | 2.270 | (0.470) | 10858 | 34.7848 | 34.78 |
| 10 | Acetone | 43 | 2.412 | 2.412 | (0.501) | 119298 | 56.7296 | 56.72 |
| 11 | 1,1-Dichloroethene | 96 | 2.337 | 2.337 | (0.485) | 95885 | 21.4799 | 21.47 |
| 15 | Iodomethane | 142 | 2.472 | 2.472 | (0.513) | 143989 | 47.8926 | 47.89 |
| 16 | Acrylonitrile | 53 | 3.068 | 3.068 | (0.637) | 88201 | 40.4421 | 40.44 |
| 17 | Methylene Chloride | 84 | 2.794 | 2.799 | (0.580) | 111912 | 20.2683 | 20.26 |
| 18 | Methyl tert-butyl ether | 73 | 3.083 | 3.083 | (0.640) | 287598 | 21.0095 | 21.00 |
| 19 | Carbon Disulfide | 76 | 2.525 | 2.525 | (0.524) | 625106 | 52.3817 | 52.38 |
| 20 | trans-1,2-Dichloroethene | 96 | 3.061 | 3.065 | (0.635) | 101883 | 20.9867 | 20.98 |
| 21 | Vinyl Acetate | 43 | 3.612 | 3.612 | (0.750) | 597604 | 40.3828 | 40.38 |
| 22 | 1,1-Dichloroethane | 63 | 3.518 | 3.518 | (0.730) | 179954 | 19.5054 | 19.50 |
| 24 | 2-Butanone | 43 | 4.268 | 4.268 | (0.886) | 225775 | 84.2037 | 84.20 |
| 26 | 2,2-Dichloropropane | 77 | 4.185 | 4.186 | (0.869) | 141338 | 23.3848 | 23.38 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 27 | cis-1,2-Dichloroethene | 96 | 4.196 | 4.201 (0.871) | 116034 | 19.9790 | 19.97 |
| 28 | Chloroform | 83 | 4.575 | 4.575 (0.949) | 192678 | 20.0661 | 20.06 |

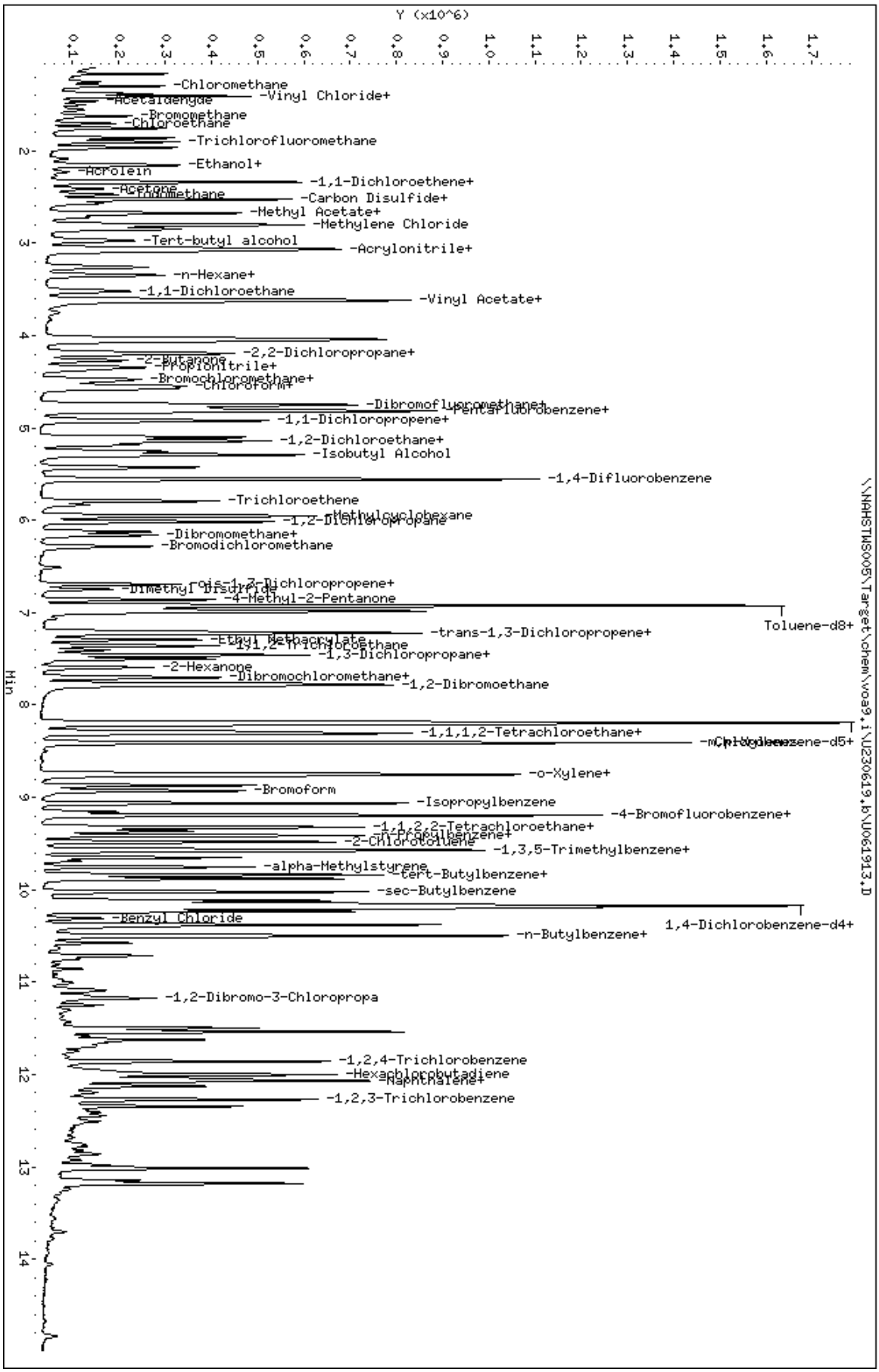
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 29 Bromochloromethane | 128 | 4.470 | 4.470 | (0.928) | 60924 | 18.7533 | 18.75 |
| $ | 30 Dibromofluoromethane | 113 | 4.751 | 4.752 | (0.986) | 252172 | 51.0931 | 51.09 |
| | 31 1,1,1-Trichloroethane | 97 | 4.744 | 4.744 | (0.984) | 163296 | 22.3128 | 22.31 |
| | 32 1,1-Dichloropropene | 75 | 4.924 | 4.924 | (0.887) | 142489 | 23.8273 | 23.82 |
| | 33 1,2-Dichloroethane | 62 | 5.179 | 5.179 | (0.933) | 157767 | 22.3388 | 22.33 |
| | 34 Carbon Tetrachloride | 117 | 4.912 | 4.913 | (0.885) | 138661 | 25.2428 | 25.24 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.058) | 291671 | 54.6700 | 54.66 |
| * | 36 1,4-Difluorobenzene | 114 | 5.554 | 5.554 | (1.000) | 815976 | 50.0000 | |
| | 37 Benzene | 78 | 5.141 | 5.141 | (0.926) | 410953 | 20.9007 | 20.90 |
| | 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.043) | 117959 | 20.6984 | 20.69 |
| | 39 Bromodichloromethane | 83 | 6.281 | 6.281 | (1.131) | 132466 | 21.5976 | 21.59 |
| | 42 1,2-Dichloropropane | 63 | 6.011 | 6.011 | (1.082) | 104783 | 19.9593 | 19.95 |
| | 44 Dibromomethane | 93 | 6.120 | 6.120 | (1.102) | 75184 | 22.4139 | 22.41 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.858 | 6.858 | (0.838) | 219851 | 40.7101 | 40.71 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.693 | 6.693 | (1.205) | 143071 | 18.6571 | 18.65 |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 741600 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.922 | (0.846) | 937803 | 55.8730 | 55.87 |
| | 50 Toluene | 91 | 6.982 | 6.982 | (0.853) | 469207 | 23.3273 | 23.32 |
| | 51 trans-1,3-Dichloropropene | 75 | 7.199 | 7.199 | (1.296) | 116236 | 18.1930 | 18.19 |
| | 52 2-Hexanone | 43 | 7.593 | 7.593 | (0.928) | 144247 | 38.3542 | 38.35 |
| | 53 1,1,2-Trichloroethane | 83 | 7.357 | 7.357 | (0.899) | 85235 | 20.3661 | 20.36 |
| | 54 1,3-Dichloropropane | 76 | 7.499 | 7.499 | (0.916) | 178937 | 20.9267 | 20.92 |
| | 55 Dibromochloromethane | 129 | 7.694 | 7.694 | (0.940) | 109190 | 21.9887 | 21.98 |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 118423 | 24.1651 | 24.16 |
| | 57 1,2-Dibromoethane | 107 | 7.788 | 7.788 | (0.951) | 104886 | 20.3160 | 20.31 |
| | 58 1-Chlorohexane | 55 | 8.196 | 8.197 | (1.476) | 100503 | 23.9867 | 23.98 |
| | 59 Chlorobenzene | 112 | 8.211 | 8.212 | (1.003) | 308473 | 21.4884 | 21.48 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 8.286 | 8.287 | (1.012) | 109237 | 22.1400 | 22.14 |
| | 61 Ethylbenzene | 106 | 8.309 | 8.309 | (1.015) | 151760 | 22.7137 | 22.71 |
| | 62 m,p-Xylenes | 106 | 8.410 | 8.410 | (1.027) | 370997 | 46.9325 | 46.93 |
| | 63 o-Xylene | 106 | 8.747 | 8.748 | (1.069) | 176046 | 22.5433 | 22.54 |
| | 64 Styrene | 104 | 8.762 | 8.763 | (1.071) | 282887 | 22.8263 | 22.82 |
| | 66 Bromoform | 173 | 8.920 | 8.920 | (1.090) | 76142 | 22.7163 | 22.71 |
| | 67 Isopropylbenzene | 105 | 9.062 | 9.063 | (1.107) | 468840 | 24.9956 | 24.99 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 9.328 | 9.329 | (0.917) | 142736 | 19.2027 | 19.20 |
| $ | 69 4-Bromofluorobenzene | 95 | 9.193 | 9.194 | (1.123) | 337813 | 51.1015 | 51.10 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 395164 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 9.362 | 9.362 | (0.920) | 126120 | 19.2868 | 19.28 |
| | 73 n-Propylbenzene | 91 | 9.415 | 9.411 | (0.926) | 499077 | 24.0779 | 24.07 |
| | 74 Bromobenzene | 156 | 9.317 | 9.318 | (0.916) | 133989 | 20.0959 | 20.09 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.565 | 9.561 | (0.940) | 318256 | 22.3807 | 22.38 |
| | 76 2-Chlorotoluene | 91 | 9.482 | 9.482 | (0.932) | 322877 | 22.1592 | 22.15 |
| | 77 4-Chlorotoluene | 91 | 9.576 | 9.576 | (0.941) | 360875 | 22.3752 | 22.37 |
| | 78 tert-Butylbenzene | 119 | 9.838 | 9.839 | (0.967) | 336415 | 24.0873 | 24.08 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.880 | 9.880 | (0.971) | 325007 | 21.8436 | 21.84 |
| | 81 sec-Butylbenzene | 105 | 10.022 | 10.022 | (0.985) | 443633 | 25.0470 | 25.04 |
| | 82 p-Isopropyltoluene | 119 | 10.146 | 10.146 | (0.997) | 366294 | 24.6853 | 24.68 |
| | 83 1,3-Dichlorobenzene | 146 | 10.116 | 10.116 | (0.994) | 237016 | 20.9298 | 20.92 |
| | 84 1,4-Dichlorobenzene | 146 | 10.191 | 10.191 | (1.002) | 246304 | 20.3994 | 20.39 |
| | 87 n-Butylbenzene | 91 | 10.494 | 10.495 | (1.032) | 325765 | 25.6447 | 25.64 |
| | 88 1,2-Dichlorobenzene | 146 | 10.506 | 10.506 | (1.033) | 237636 | 20.9294 | 20.92 |
| | 89 1,2-Dibromo-3-Chloropropane | 155 | 11.169 | 11.169 | (1.098) | 21069 | 19.4244 | 19.42 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 90 1,2,4-Trichlorobenzene | 180 | 11.859 | 11.859 (1.166) | 170940 | 21.8881 | 21.88 | |
| 91 Hexachlorobutadiene | 225 | 11.998 | 11.998 (1.179) | 87597 | 27.7741 | 27.77 | |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 92 Naphthalene | 128 | 12.069 | 12.065 | (1.186) | 431457 | 23.7835 | 23.78 |
| | 93 1,2,3-Trichlorobenzene | 180 | 12.271 | 12.268 | (1.206) | 165734 | 21.7076 | 21.70 |
| M | 94 1,2-Dichloroethylene (total) | 96 | | | | 217917 | 40.9657 | 40.96 |
| M | 95 Xylenes (total) | 106 | | | | 547043 | 69.4759 | 69.47 |
| | 135 1,4-Dioxane | 88 | 6.172 | 6.172 | (1.281) | 25481 | 218.210 | 218.21 |
| | 141 Cyclohexane | 56 | 4.785 | 4.785 | (0.993) | 160821 | 22.6688 | 22.66 |
| | 138 Freon TF | 101 | 2.337 | 2.337 | (0.485) | 103218 | 26.1334 | 26.13 |
| | 140 1,3-Butadiene | 54 | 1.407 | 1.408 | (0.292) | 114471 | 20.5534 | 20.55 |
| | 147 Methylcyclohexane | 55 | 5.951 | 5.951 | (1.072) | 270403 | 23.8889 | 23.88 |
| | 146 Methyl Acetate | 43 | 2.716 | 2.716 | (0.564) | 92468 | 18.6737 | 18.67 |
| | 148 Tert-Butyl alcohol | 59 | 2.971 | 2.971 | (0.617) | 210185 | 383.778 | 383.77 |
| | 149 Isopropyl Alcohol | 45 | 2.566 | 2.566 | (0.532) | 138236 | 359.567 | 359.56 |
| | 72 trans-1,4-Dichloro-2-butene | 53 | 9.377 | 9.377 | (1.146) | 16435 | 19.2473 | 19.24 |
| | 12 Isobutyl Alcohol | 43 | 5.291 | 5.291 | (1.098) | 305852 | 400.282 | 400.28 |
| | 13 Acetonitrile | 39 | 2.675 | 2.675 | (0.555) | 150060 | 235.684 | 235.68 |
| | 14 Allyl Chloride | 41 | 2.675 | 2.675 | (0.555) | 303209 | 19.8588 | 19.85 |
| | 25 Methacrylonitrile | 41 | 4.500 | 4.500 | (0.934) | 64019 | 18.4251 | 18.42 |
| | 40 Methyl Methacrylate | 41 | 6.161 | 6.161 | (1.278) | 100665 | 19.9080 | 19.90 |
| | 4 Propionitrile | 54 | 4.343 | 4.343 | (0.901) | 149914 | 176.410 | 176.40(a) |
| | 136 n-Hexane | 57 | 3.346 | 3.346 | (0.694) | 125931 | 26.0782 | 26.07 |
| | 194 Acetaldehyde | 44 | 1.460 | 1.464 | (0.303) | 46402 | 57.2094 | 57.20(M) |
| | 131 Methyl Acrylate | 55 | 4.373 | 4.373 | (0.907) | 119975 | 19.2898 | 19.28 |
| | 49 Ethyl Methacrylate | 69 | 7.293 | 7.293 | (1.313) | 153903 | 21.5166 | 21.51 |
| | 166 1,2,3-Trimethylbenzene | 105 | 10.236 | 10.236 | (1.006) | 323672 | 21.3087 | 21.30 |
| | 156 Diisopropyl ether | 45 | 3.623 | 3.627 | (0.752) | 348002 | 21.2221 | 21.22 |
| | 162 Butyl acrylate | 55 | 8.736 | 8.733 | (1.067) | 182318 | 20.7835 | 20.78 |
| | 203 2-Ethylhexyl Acrylate | 55 | 12.042 | 12.043 | (1.184) | 89530 | 25.1289 | 25.12 |

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\voa9,i\U230619,b\U061913,D
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Sample Info: HS230611152-01MSD;HS230611152-01MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

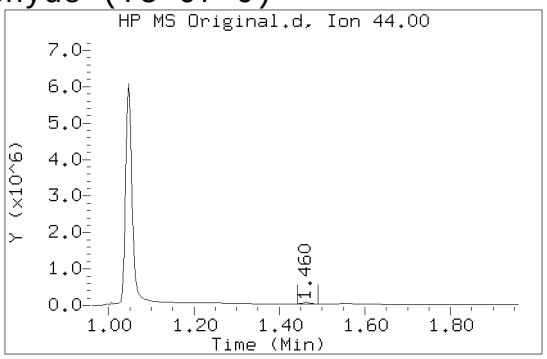
Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061913.D
Inj Date : 19-JUN-2023 15:07
InstruID : VOA9.i
LabSampID : HS23061152-01MSD

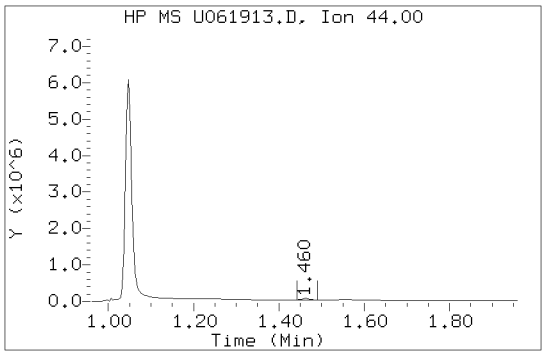
Acetaldehyde (75-07-0)

Reason Code:

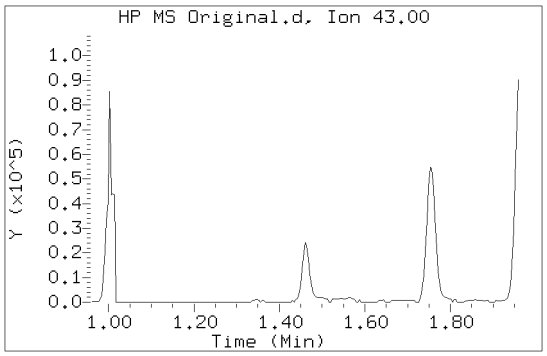
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HEIGHT
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20-Jun-2023
10:49
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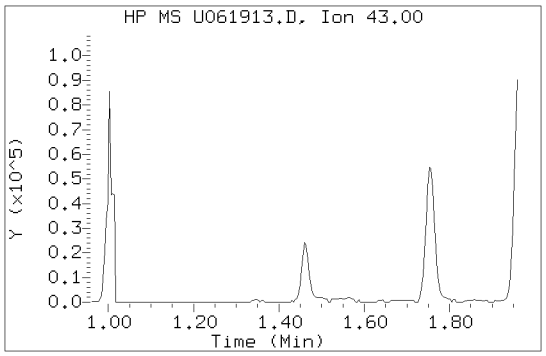

AFTER
MASS
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AREA
46402
HEIGHT
39697
21-Jun-2023
17:00
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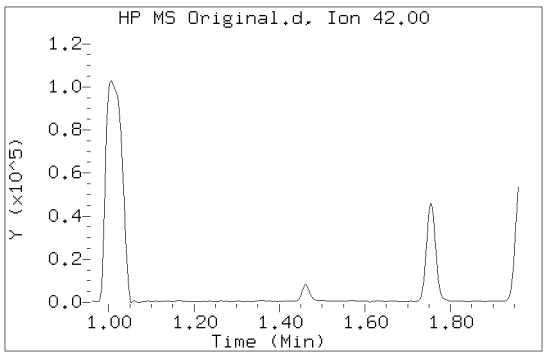

BEFORE
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HEIGHT
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20-Jun-2023
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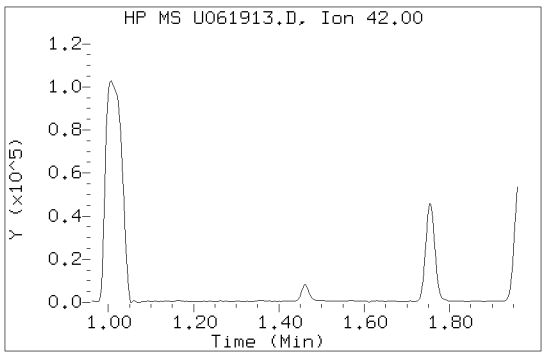

AFTER
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21-Jun-2023
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BEFORE
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AFTER
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21-Jun-2023
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061916.D  Page 1
Report Date: 21-Jun-2023 17:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061916.D
Lab Smp Id: HS23061096-01  Client Smp ID: HS23061096-01
Inj Date  : 19-JUN-2023 16:14
Operator  : PC  Inst ID: VOA9.i
Smp Info  : HS23061096-01;HS23061096-01;;;
Misc Info : V9;WATER;0;10;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\8260C.m
Meth Date : 21-Jun-2023 17:01 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 14
Dil Factor: 10.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 10.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.812 | 4.819 | (1.000) | 550051 | 50.0000 | |
| 27 cis-1,2-Dichloroethene | 96 | 4.193 | 4.201 | (0.871) | 22230 | 4.09231 | 40.92(a) |
| $ 30 Dibromofluoromethane | 113 | 4.744 | 4.752 | (0.986) | 234728 | 50.8461 | 50.84 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 5.096 | 5.100 | (1.059) | 281727 | 56.4803 | 56.48 |
| * 36 1,4-Difluorobenzene | 114 | 5.550 | 5.554 | (1.000) | 754926 | 50.0000 | |
| 38 Trichloroethene | 130 | 5.786 | 5.790 | (1.043) | 190752 | 36.1783 | 361.78 |
| * 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 693659 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.922 | 6.922 | (0.846) | 868915 | 55.3467 | 55.34 |
| $ 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 303457 | 49.0411 | 49.04 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 344703 | 50.0000 | |
| M 94 1,2-Dichloroethylene (total) | 96 | | | | 22230 | 4.09231 | 40.92(a) |
| 138 Freon TF | 101 | 2.330 | 2.337 | (0.484) | 2048796 | 554.600 | 5546.00(A) |

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.

01196743

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061916.D



Date : 19-JUN-2023 16:14

Client ID: HS23061096-01

Instrument: VOA9.i

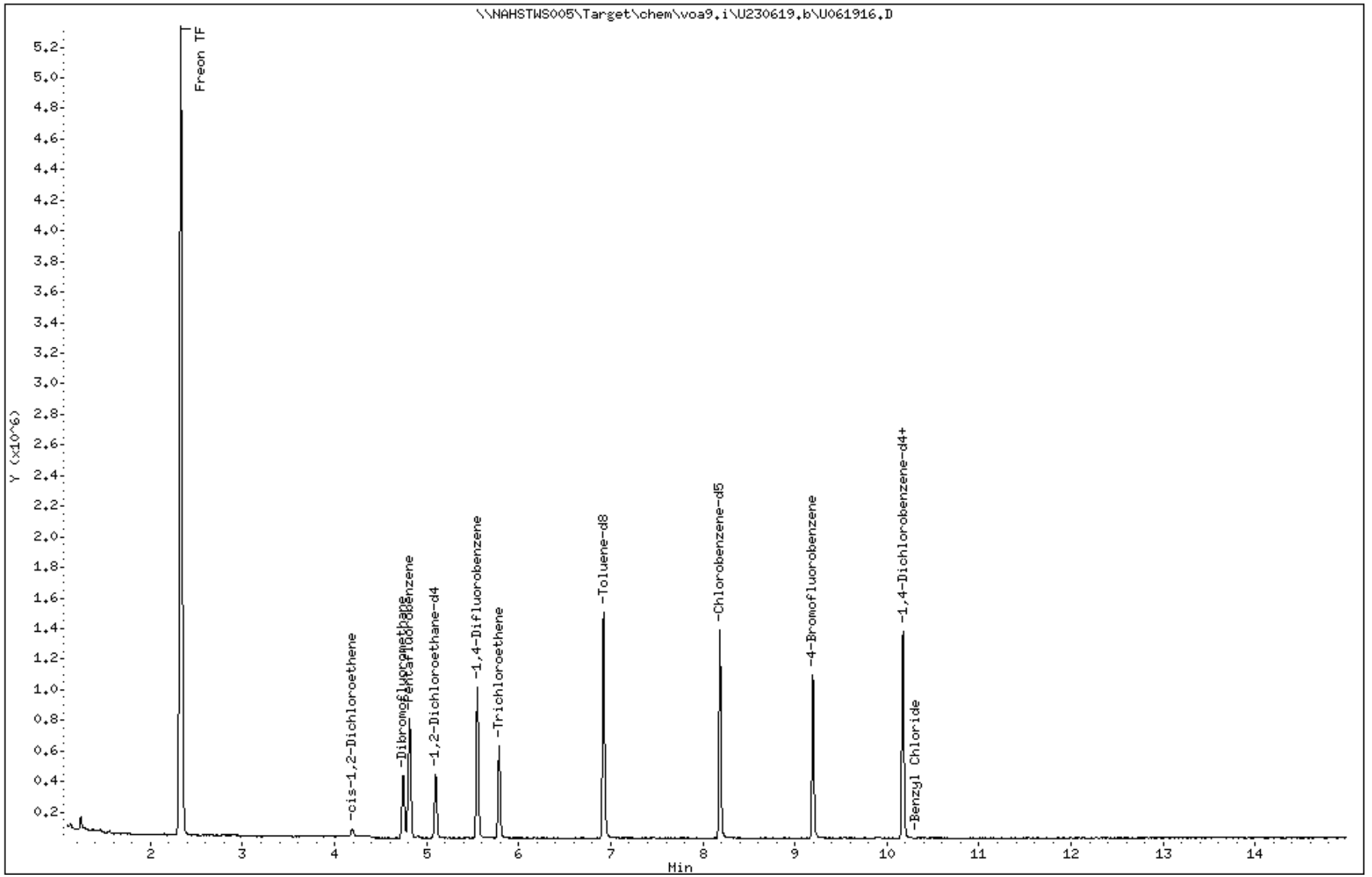
Sample Info: HS23061096-01;HS23061096-01;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061916.D

Date : 19-JUN-2023 16:14

Client ID: HS23061096-01

Instrument: VOA9.i

Sample Info: HS23061096-01;HS23061096-01;;;

Purge Volume: 5.0

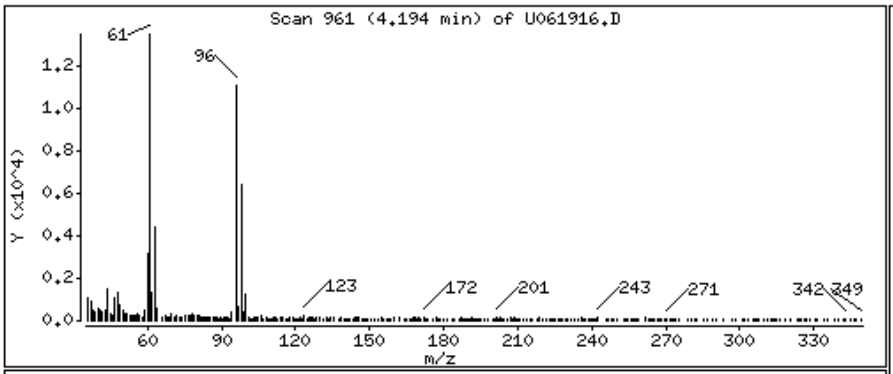
Operator: PC

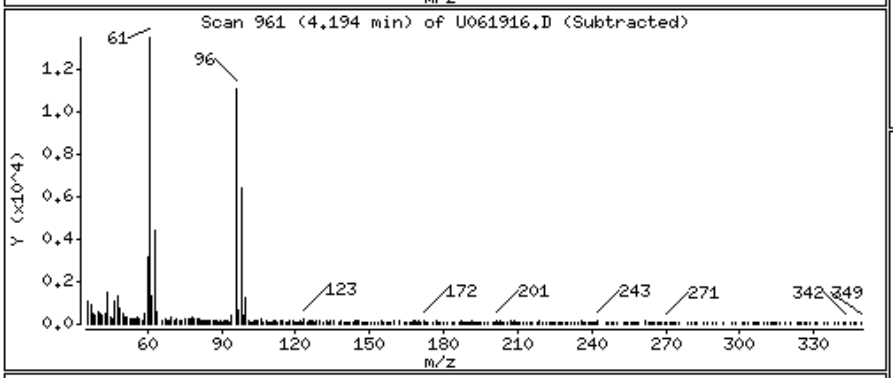
Column phase: DB624

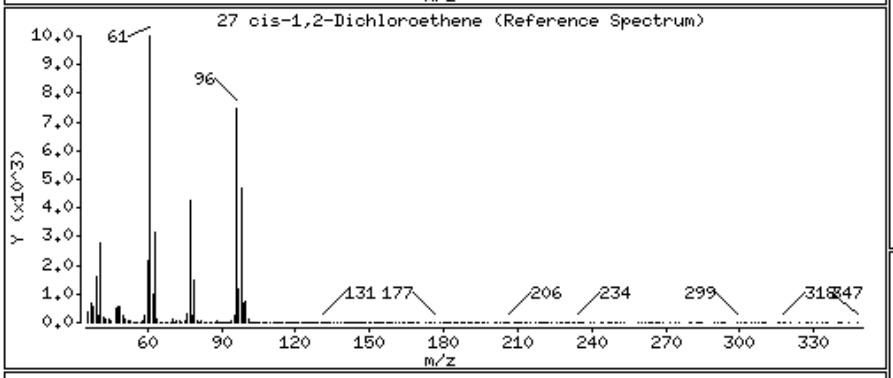
Column diameter: 0.18

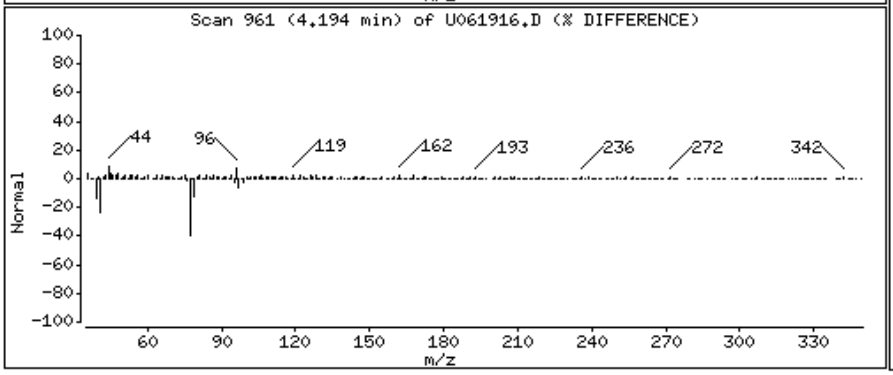
27 cis-1,2-Dichloroethene

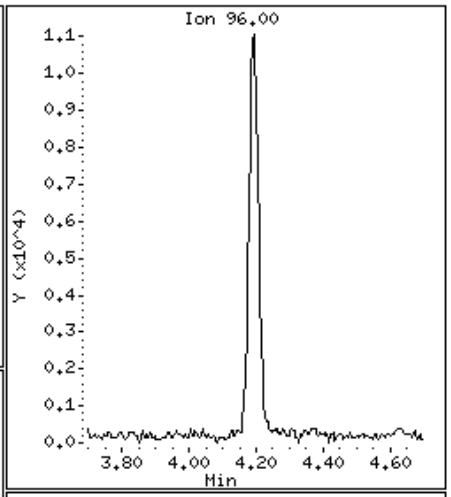
Concentration: 40.92 ug/l

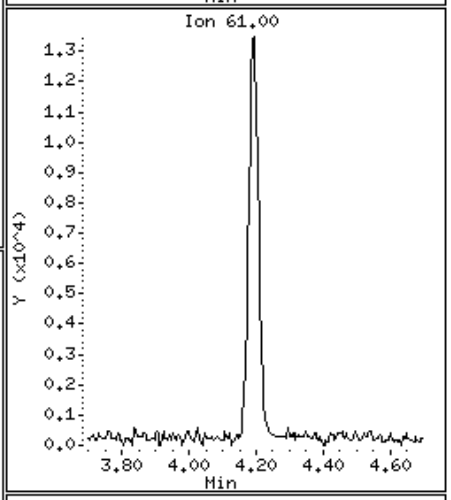


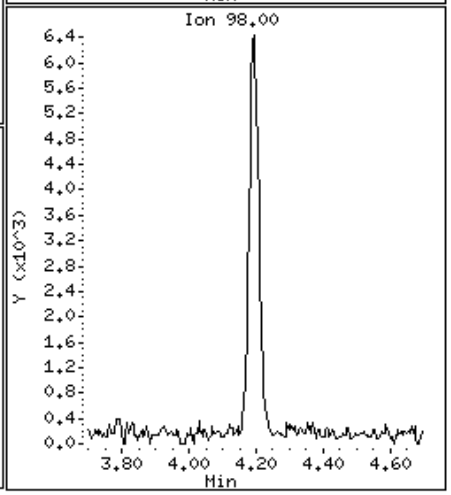



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061916.D Page 3

Date : 19-JUN-2023 16:14

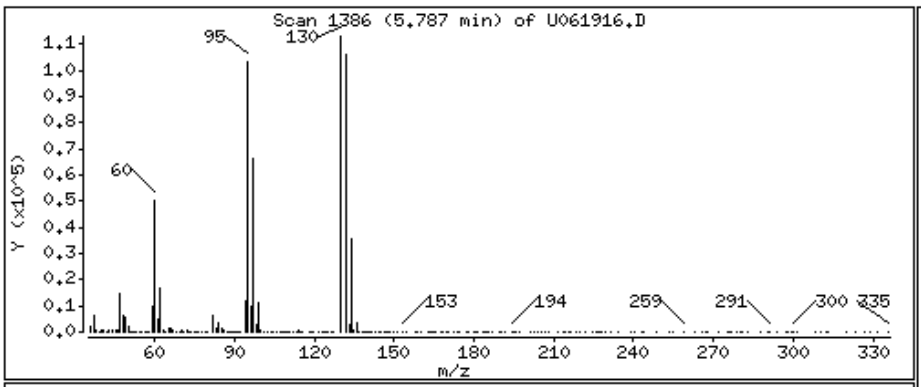
Client ID: HS23061096-01 Instrument: VOA9.i

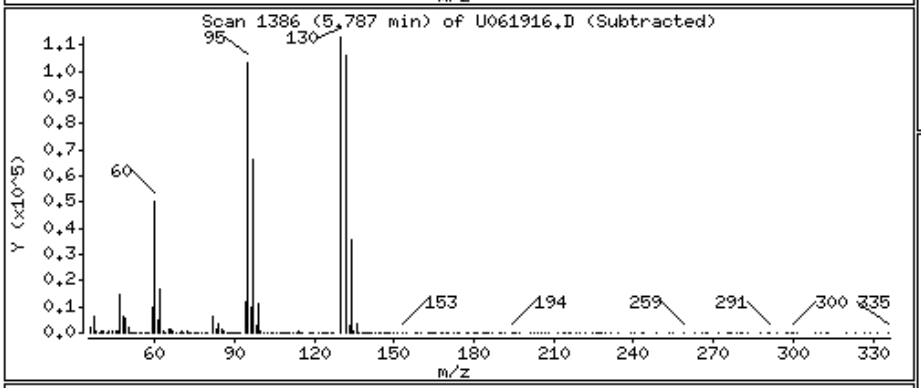
Sample Info: HS23061096-01;HS23061096-01;;;

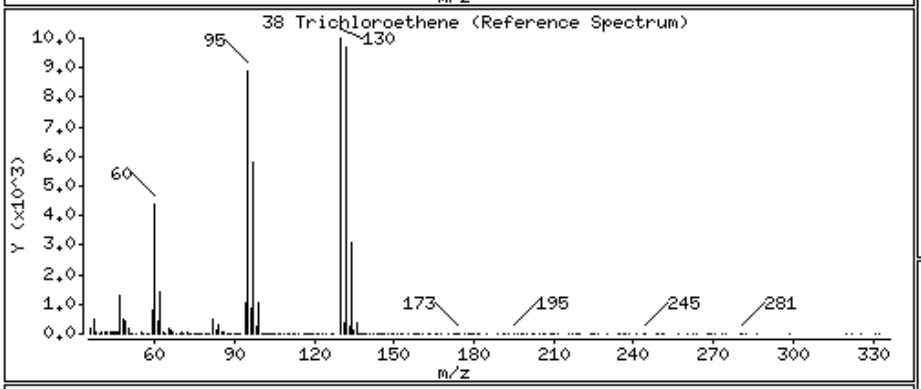
Purge Volume: 5.0 Operator: PC

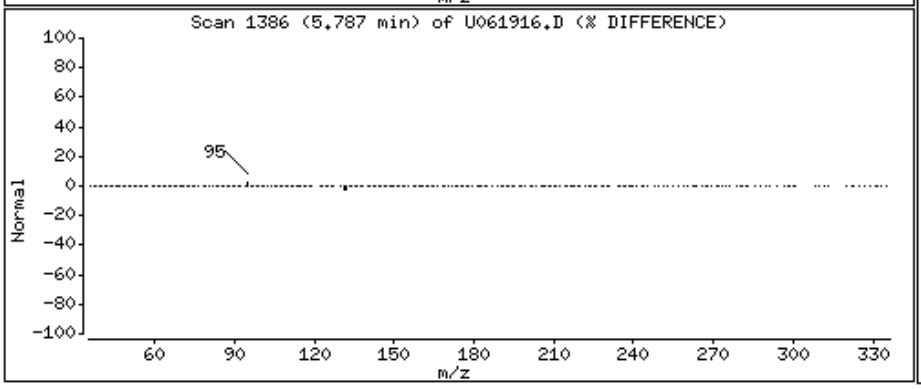
Column phase: DB624 Column diameter: 0.18

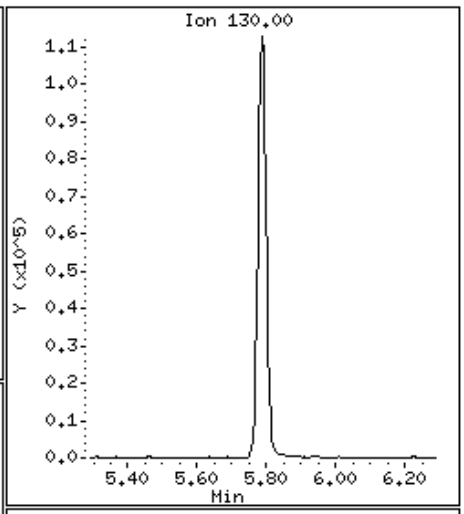
38 Trichloroethene Concentration: 361.78 ug/l

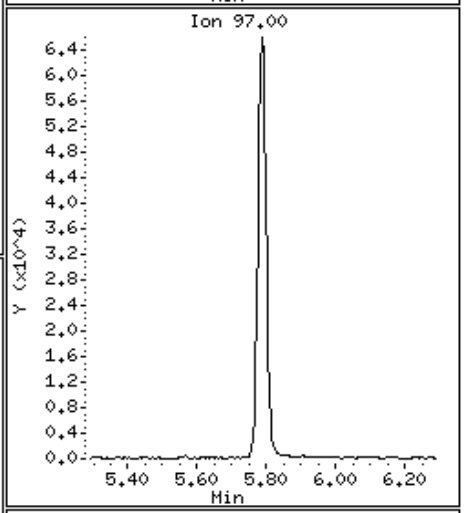


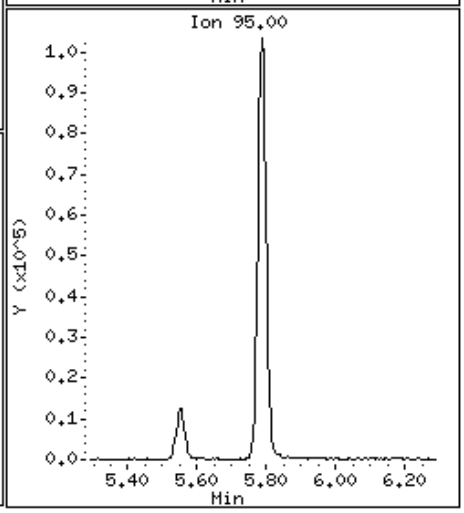



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061916.D



Date : 19-JUN-2023 16:14

Client ID: HS23061096-01

Instrument: VOA9.i

Sample Info: HS23061096-01;HS23061096-01;;;

Purge Volume: 5.0

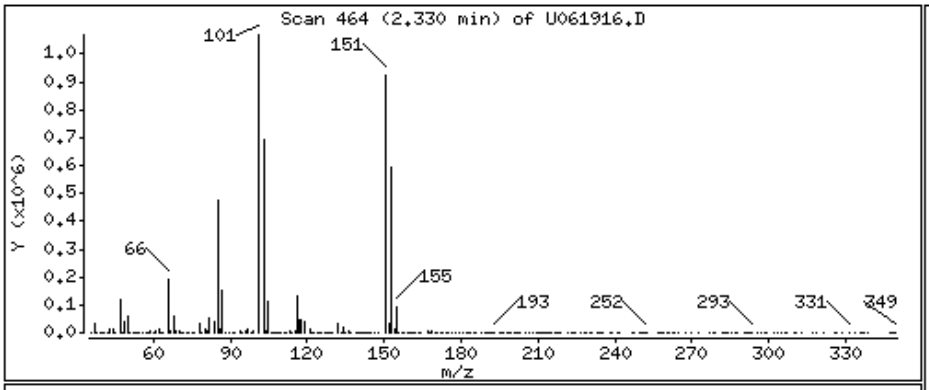
Operator: PC

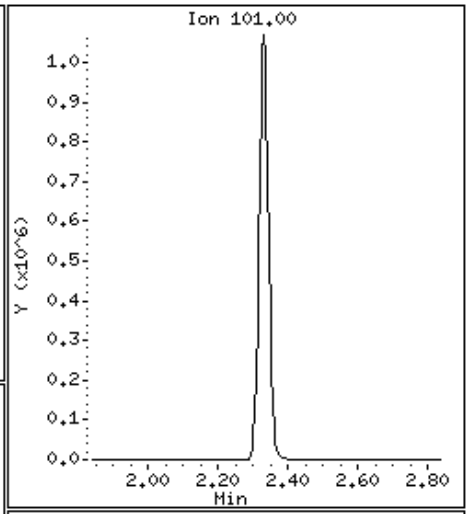
Column phase: DB624

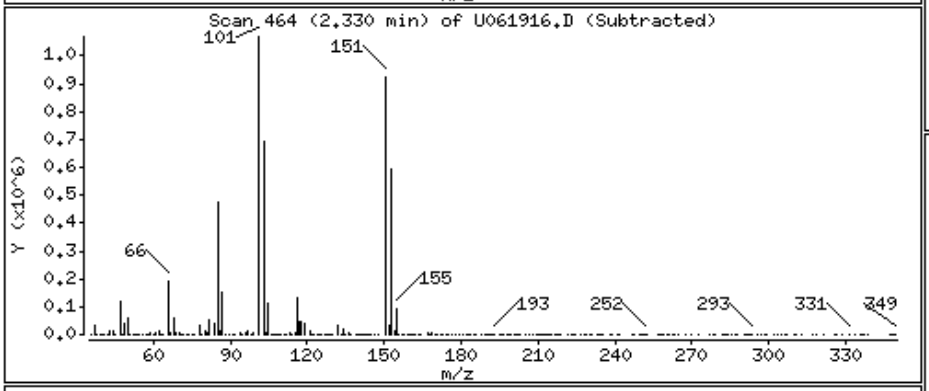
Column diameter: 0.18

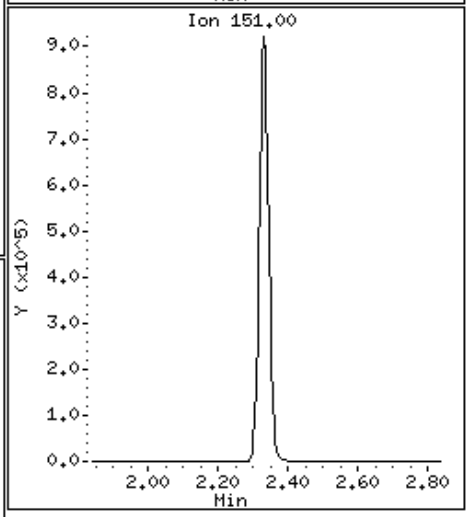
138 Freon TF

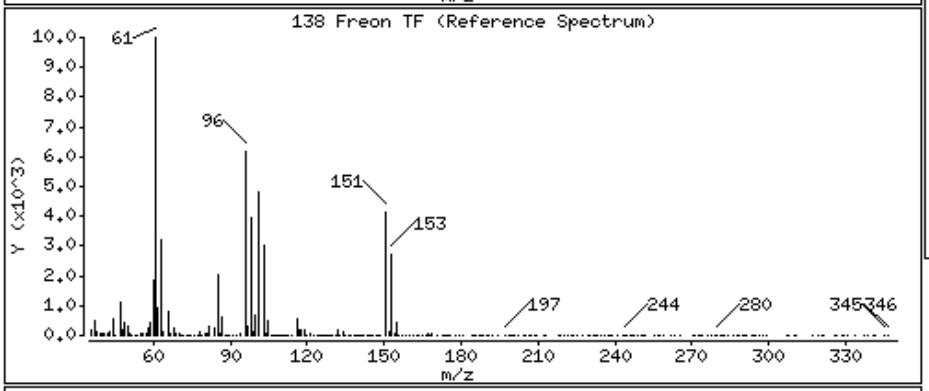
Concentration: 5546.00 ug/l

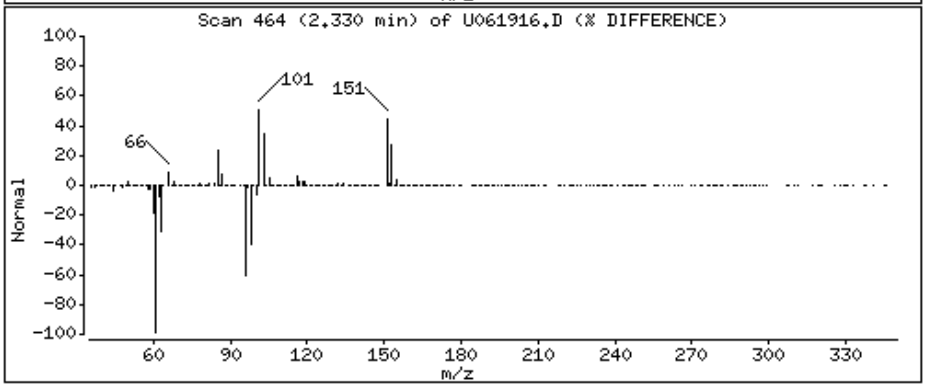


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061916.D
Inj Date  : 19-JUN-2023 16:14
InstruID  : VOA9.i
LabSampID : HS23061096-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061917.D  Page 1
Report Date: 21-Jun-2023 17:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061917.D
Lab Smp Id: HS23061096-04  Client Smp ID: HS23061096-04
Inj Date  : 19-JUN-2023 16:36
Operator  : PC  Inst ID: VOA9.i
Smp Info  : HS23061096-04;HS23061096-04;;;
Misc Info : V9;WATER;0;25;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\8260C.m
Meth Date : 21-Jun-2023 17:01 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 15
Dil Factor: 25.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 25.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.819 | 4.819 | (1.000) | 532586 | 50.0000 | |
| $ 30 Dibromofluoromethane | 113 | 4.752 | 4.752 | (0.986) | 228549 | 51.1329 | 51.13 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.058) | 273393 | 56.6084 | 56.60 |
| * 36 1,4-Difluorobenzene | 114 | 5.554 | 5.554 | (1.000) | 729000 | 50.0000 | |
| 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.043) | 175907 | 34.5493 | 863.73 |
| * 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 677489 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.922 | 6.922 | (0.846) | 828376 | 54.0238 | 54.02 |
| $ 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 295375 | 48.8712 | 48.87 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 335982 | 50.0000 | |
| 138 Freon TF | 101 | 2.337 | 2.337 | (0.485) | 8266 | 2.31095 | 57.77(a) |

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01196749

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061917.D



Date : 19-JUN-2023 16:36

Client ID: HS23061096-04

Instrument: VOA9.i

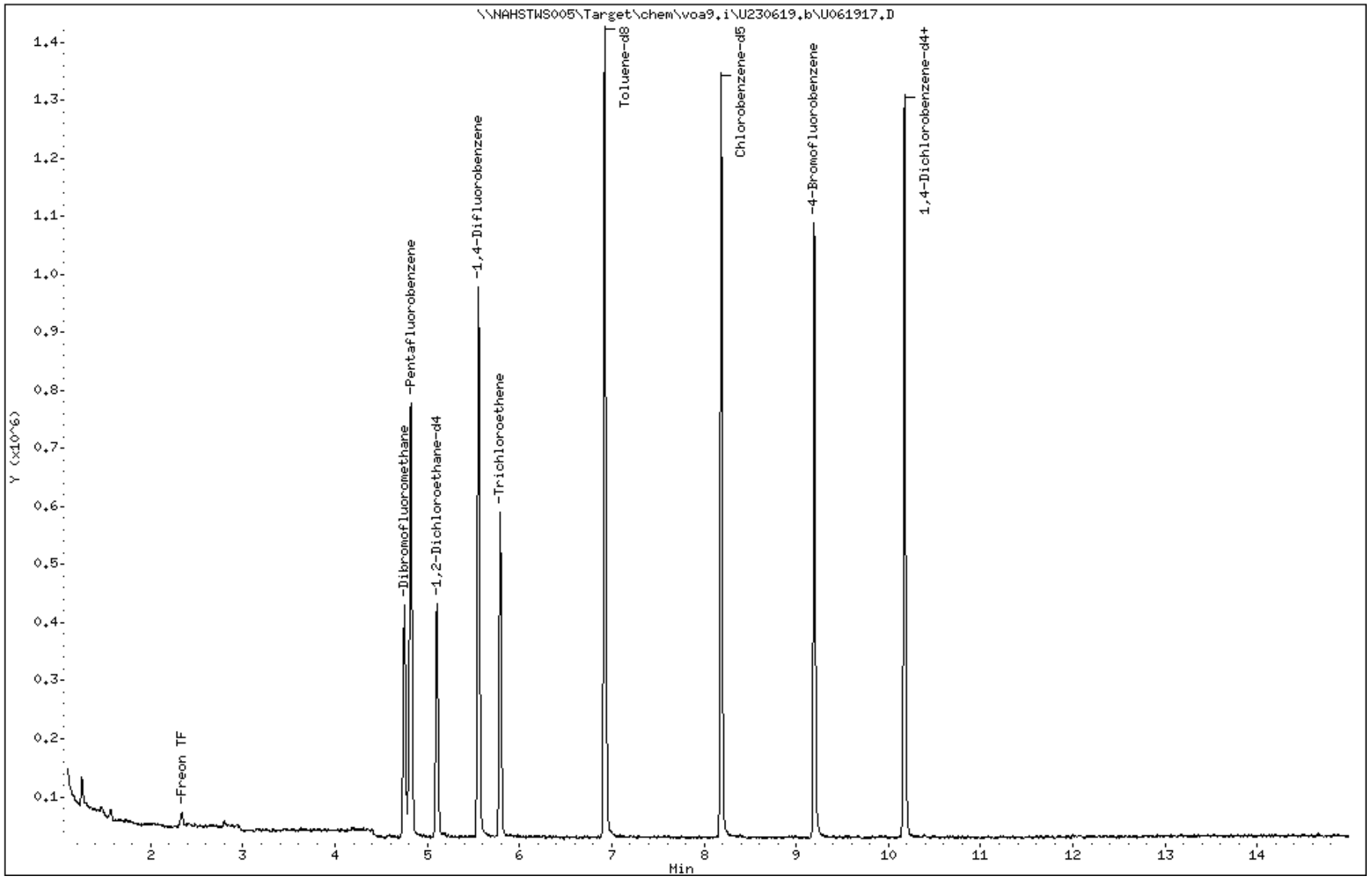
Sample Info: HS23061096-04;HS23061096-04;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061917.D

Date : 19-JUN-2023 16:36

Client ID: HS23061096-04

Instrument: VOA9.i

Sample Info: HS23061096-04;HS23061096-04;;;

Purge Volume: 5.0

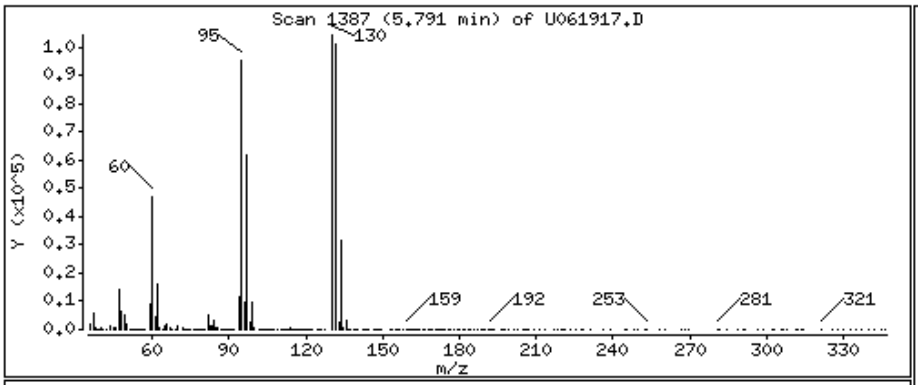
Operator: PC

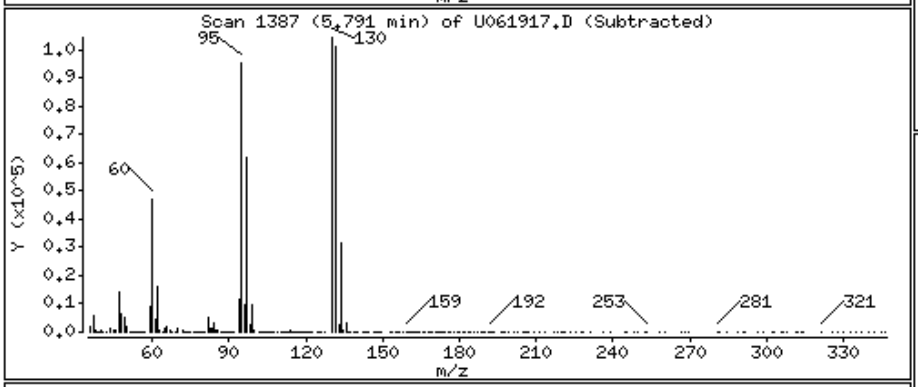
Column phase: DB624

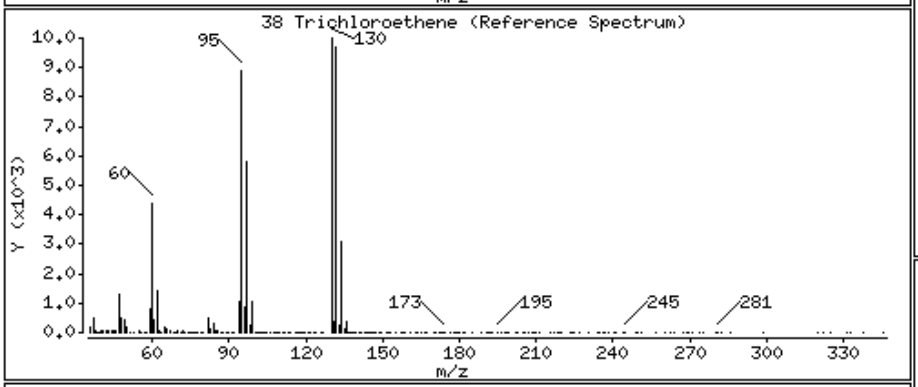
Column diameter: 0.18

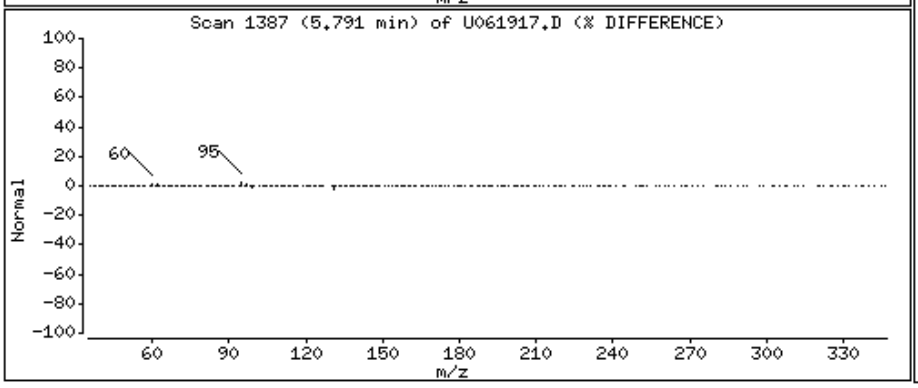
38 Trichloroethene

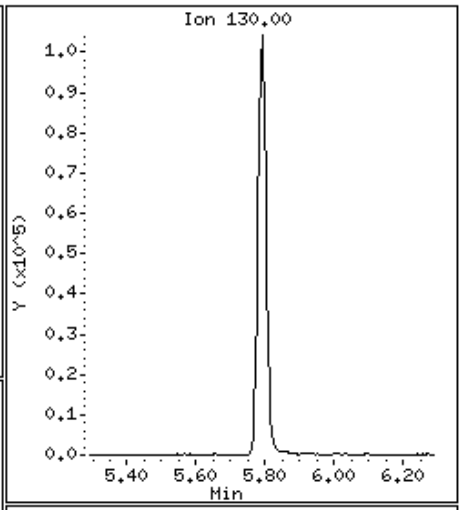
Concentration: 863.73 ug/l

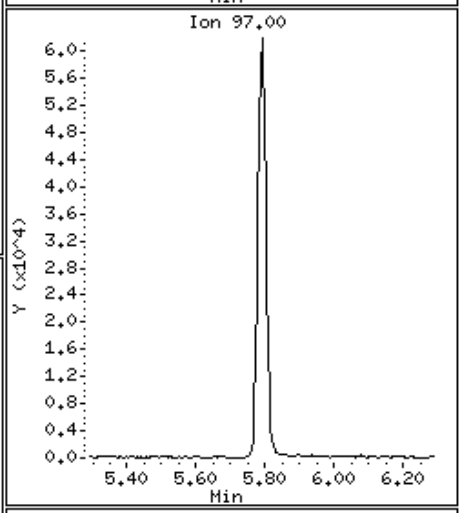


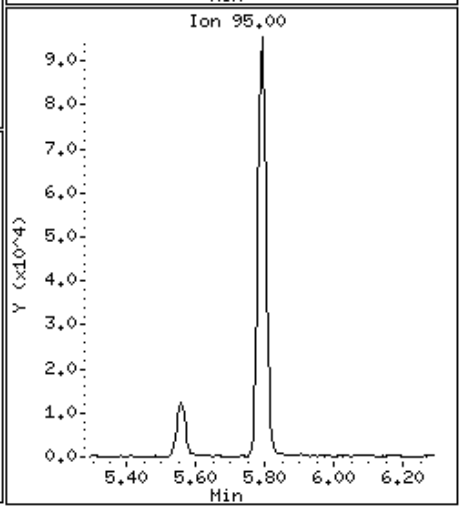



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061917.D

Date : 19-JUN-2023 16:36

Client ID: HS23061096-04

Instrument: VOA9.i

Sample Info: HS23061096-04;HS23061096-04;;;

Purge Volume: 5.0

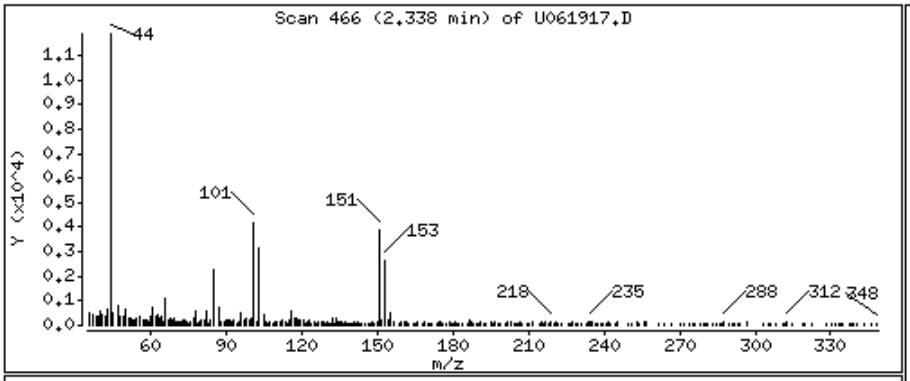
Operator: PC

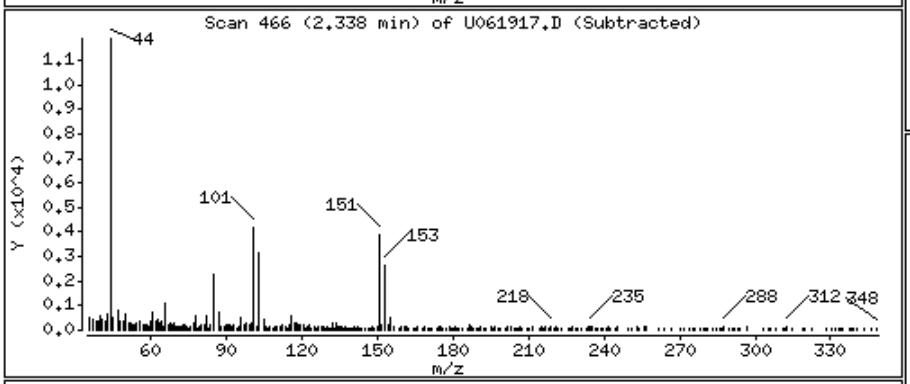
Column phase: DB624

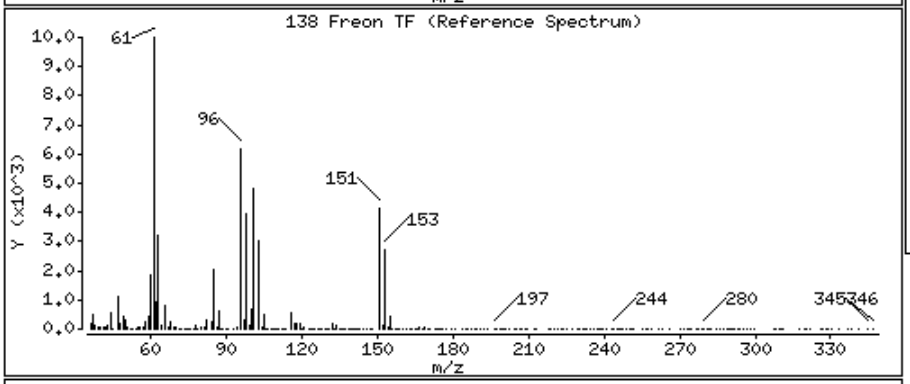
Column diameter: 0.18

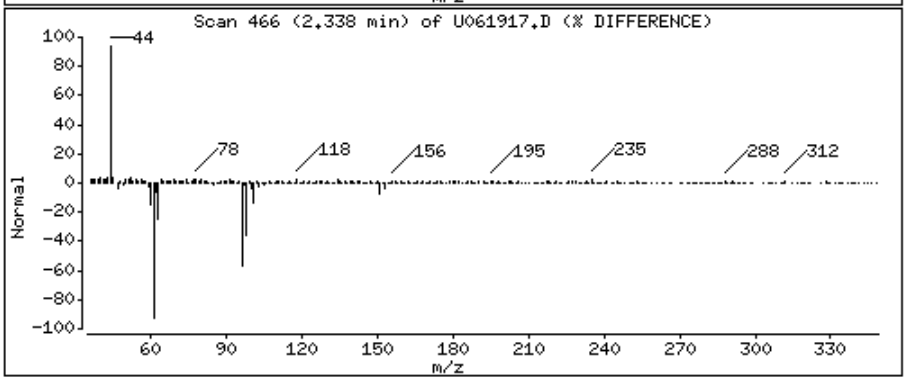
138 Freon TF

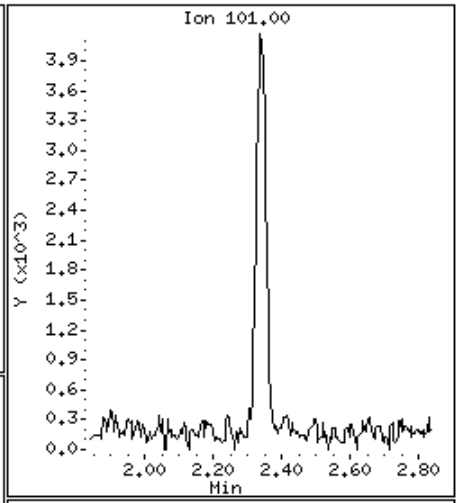
Concentration: 57.77 ug/l

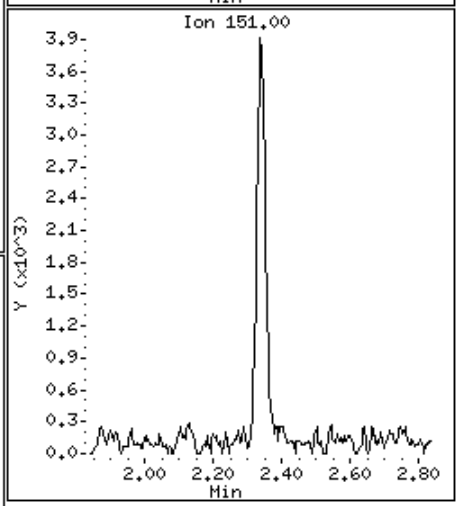


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061917.D
Inj Date  : 19-JUN-2023 16:36
InstruID  : VOA9.i
LabSampID : HS23061096-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061918.D  Page 1
Report Date: 21-Jun-2023 17:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061918.D
Lab Smp Id: HS23061096-07  Client Smp ID: HS23061096-07
Inj Date  : 19-JUN-2023 16:58
Operator  : PC  Inst ID: VOA9.i
Smp Info  : HS23061096-07;HS23061096-07;;;
Misc Info : V9;WATER;0;5;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\8260C.m
Meth Date : 21-Jun-2023 17:01 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 16
Dil Factor: 5.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 5.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.811 | 4.819 | (1.000) | 551114 | 50.0000 | |
| 27 cis-1,2-Dichloroethene | 96 | 4.193 | 4.201 | (0.871) | 14243 | 2.61693 | 13.08(a) |
| $ 30 Dibromofluoromethane | 113 | 4.744 | 4.752 | (0.986) | 234325 | 50.6598 | 50.65 |
| $ 35 1,2-Dichloroethane-d4 | 65 | 5.096 | 5.100 | (1.059) | 285030 | 57.0389 | 57.03 |
| * 36 1,4-Difluorobenzene | 114 | 5.550 | 5.554 | (1.000) | 765779 | 50.0000 | |
| 38 Trichloroethene | 130 | 5.786 | 5.790 | (1.043) | 387262 | 72.4077 | 362.03 |
| * 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 680339 | 50.0000 | |
| $ 48 Toluene-d8 | 98 | 6.922 | 6.922 | (0.846) | 855608 | 55.5661 | 55.56 |
| $ 69 4-Bromofluorobenzene | 95 | 9.193 | 9.194 | (1.123) | 284811 | 46.8899 | 46.88 |
| * 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 331279 | 50.0000 | |
| M 94 1,2-Dichloroethylene (total) | 96 | | | | 14243 | 2.61693 | 13.08(a) |
| 138 Freon TF | 101 | 2.322 | 2.337 | (0.483) | 5623 | 1.51919 | 7.59(a) |

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01196754

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061918.D



Date : 19-JUN-2023 16:58

Client ID: HS23061096-07

Instrument: VOA9.i

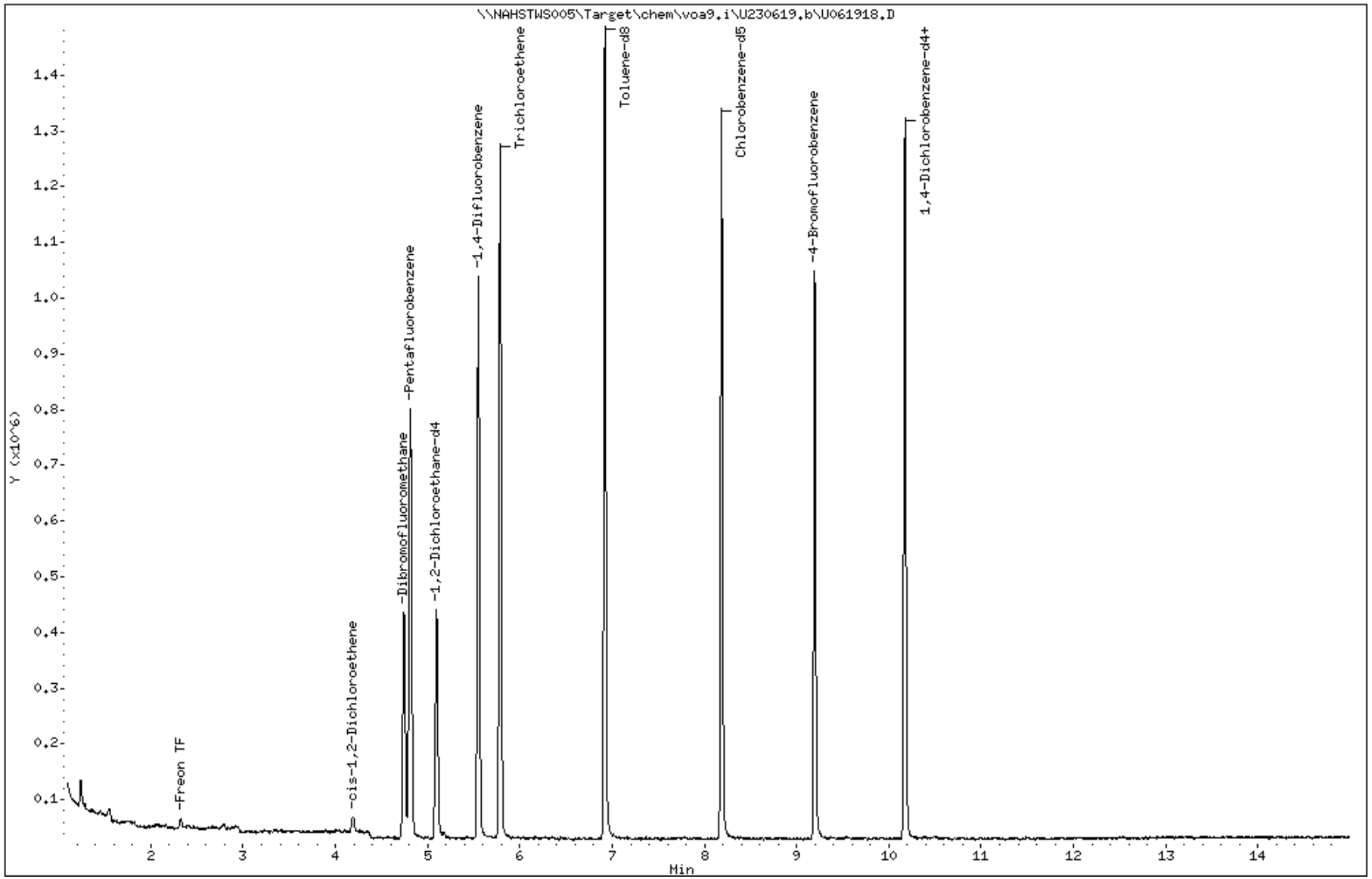
Sample Info: HS23061096-07;HS23061096-07;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061918.D

Date : 19-JUN-2023 16:58

Client ID: HS23061096-07

Instrument: VOA9.i

Sample Info: HS23061096-07;HS23061096-07;;;

Purge Volume: 5.0

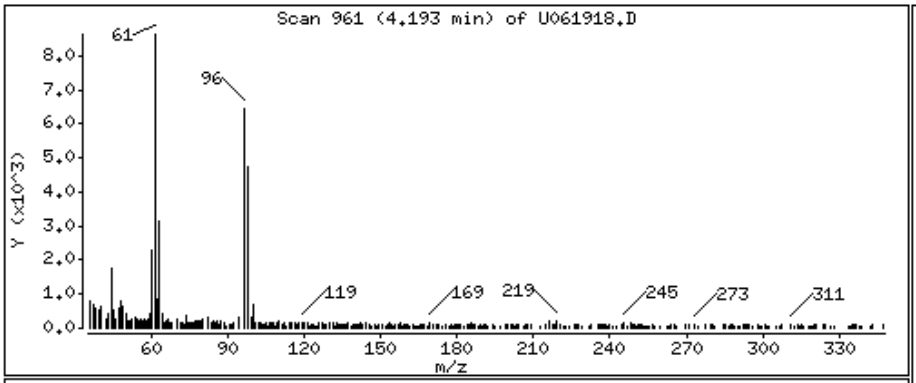
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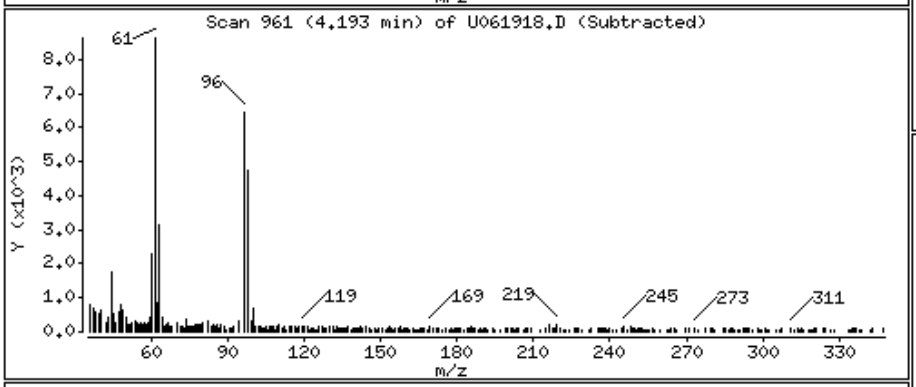
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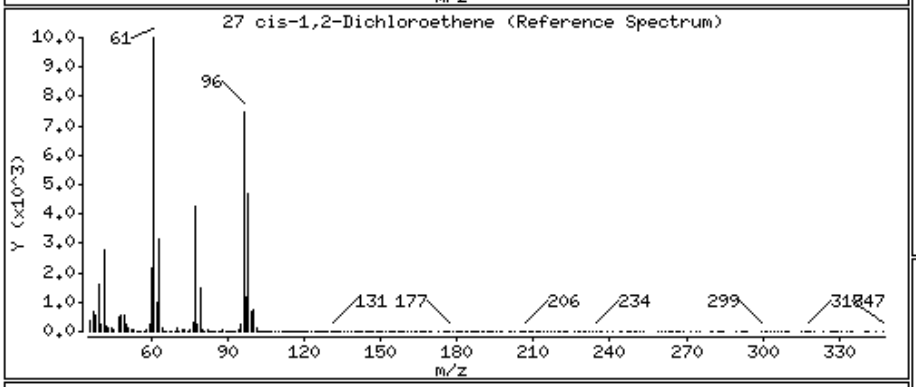
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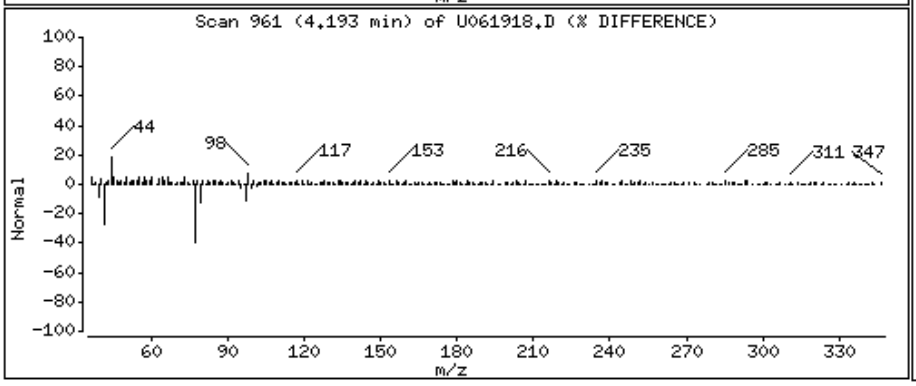
27 cis-1,2-Dichloroethene

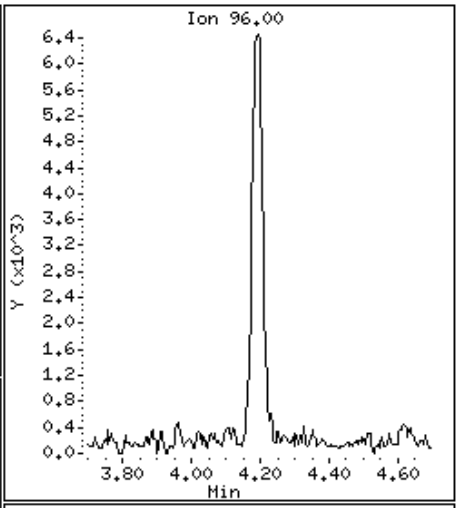
Concentration: 13.08 ug/l

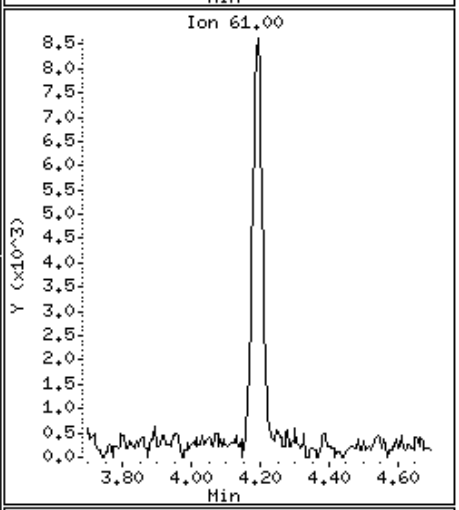


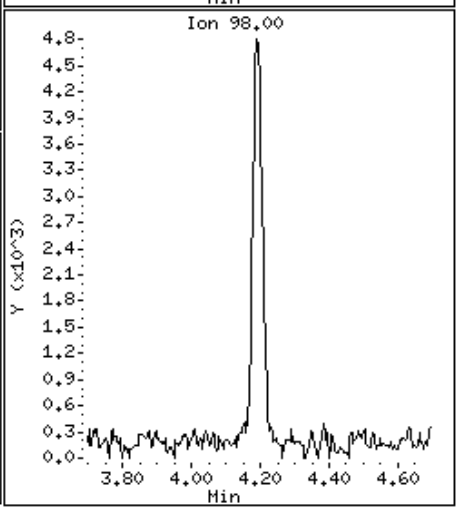



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061918.D



Date : 19-JUN-2023 16:58

Client ID: HS23061096-07

Instrument: VOA9.i

Sample Info: HS23061096-07;HS23061096-07;;;

Purge Volume: 5.0

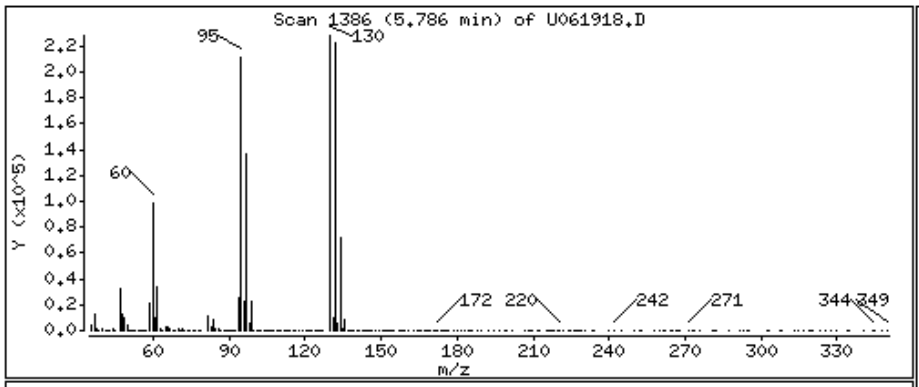
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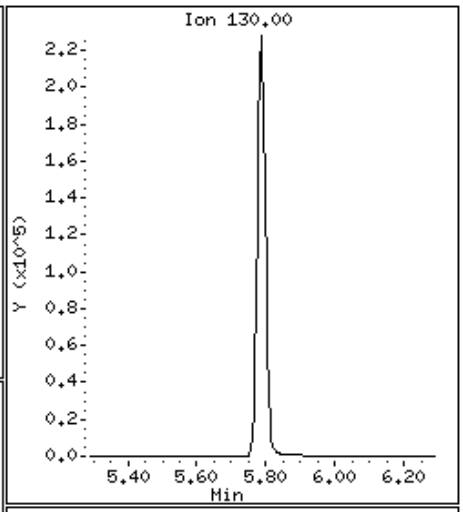
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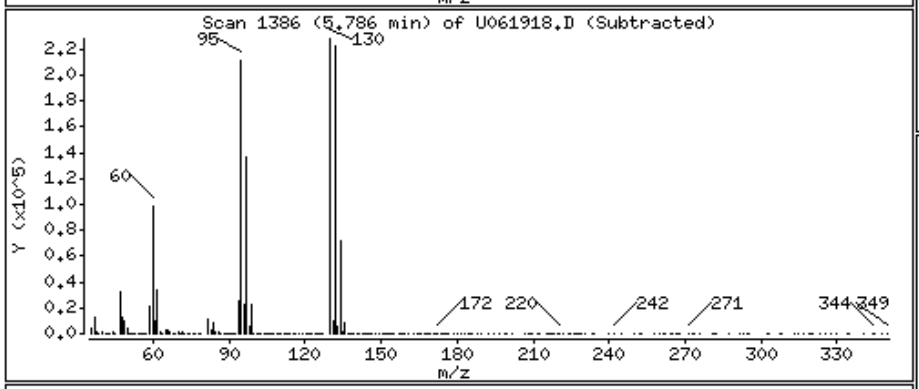
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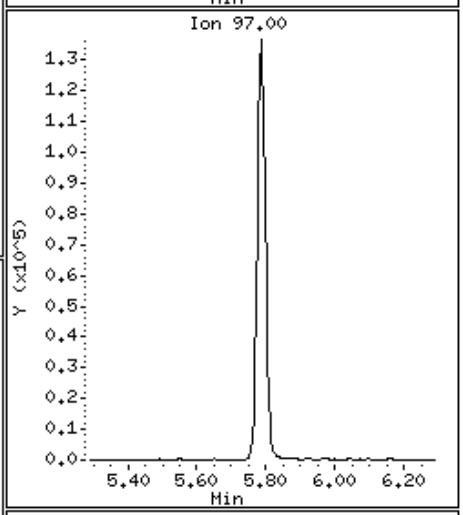
38 Trichloroethene

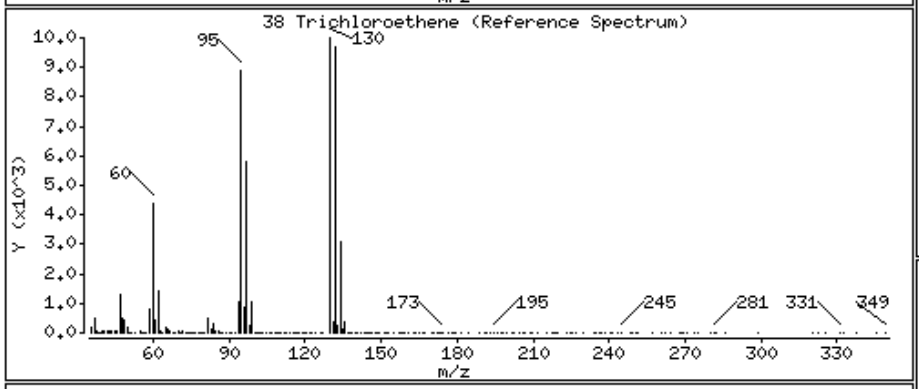
Concentration: 362.03 ug/l

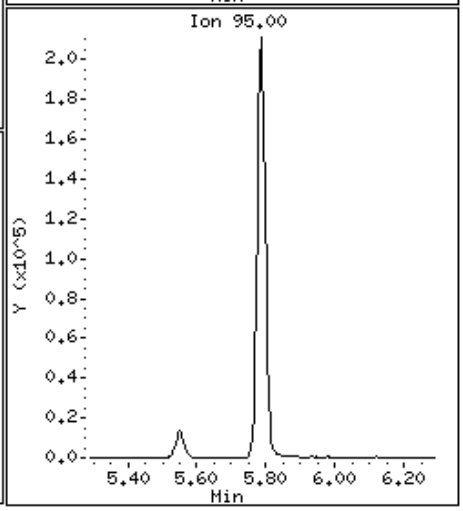


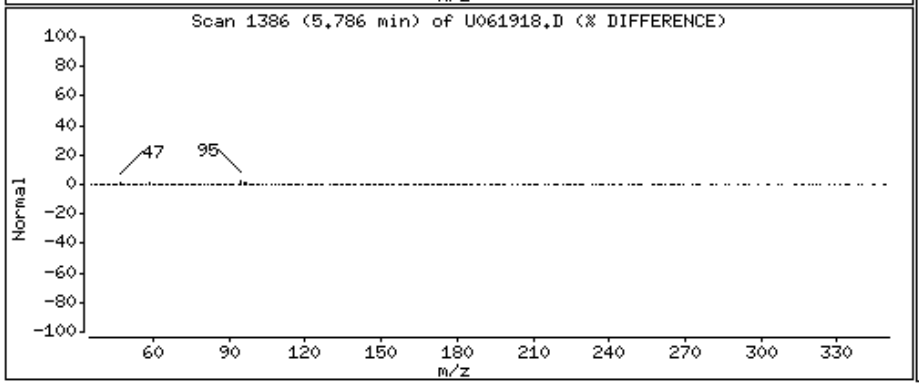



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061918.D

Date : 19-JUN-2023 16:58

Client ID: HS23061096-07

Instrument: VOA9.i

Sample Info: HS23061096-07;HS23061096-07;;;

Purge Volume: 5.0

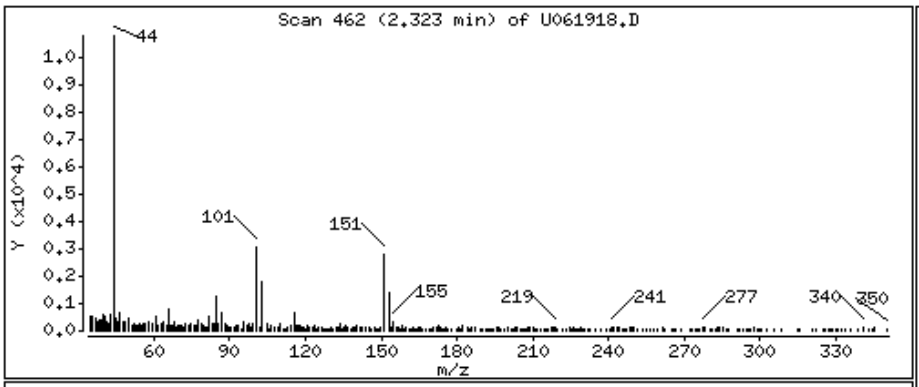
Operator: PC

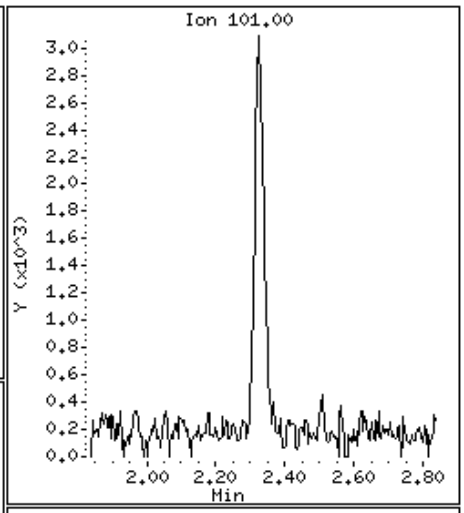
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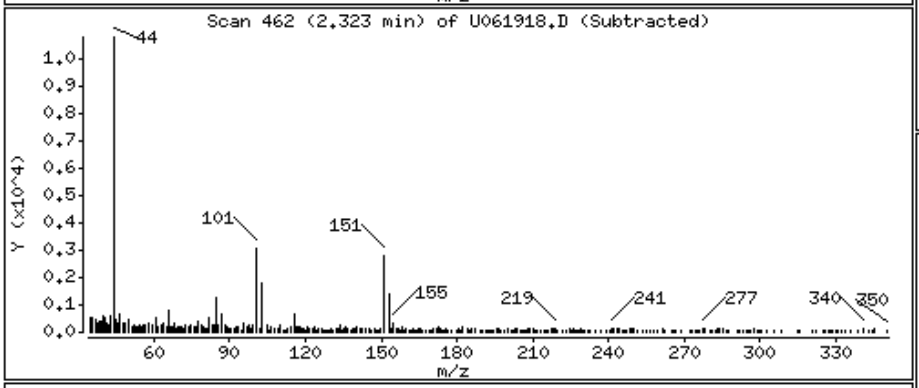
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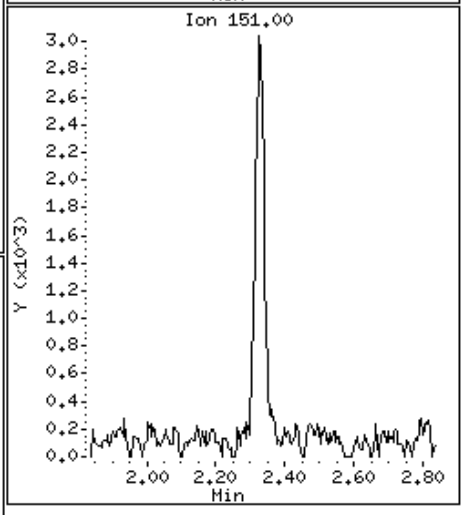
138 Freon TF

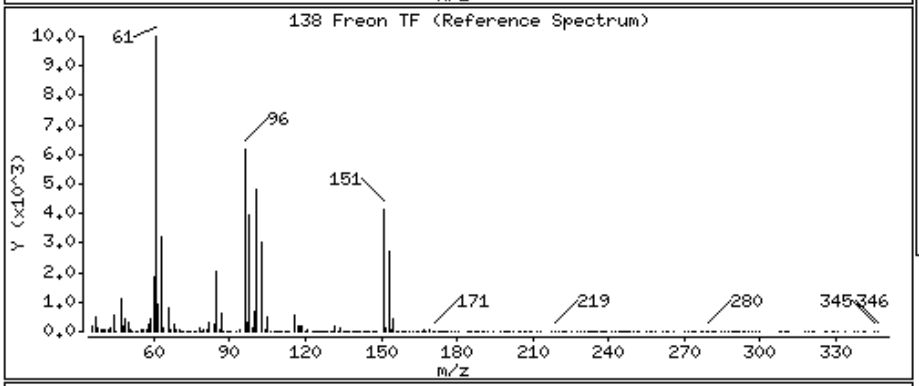
Concentration: 7.59 ug/l

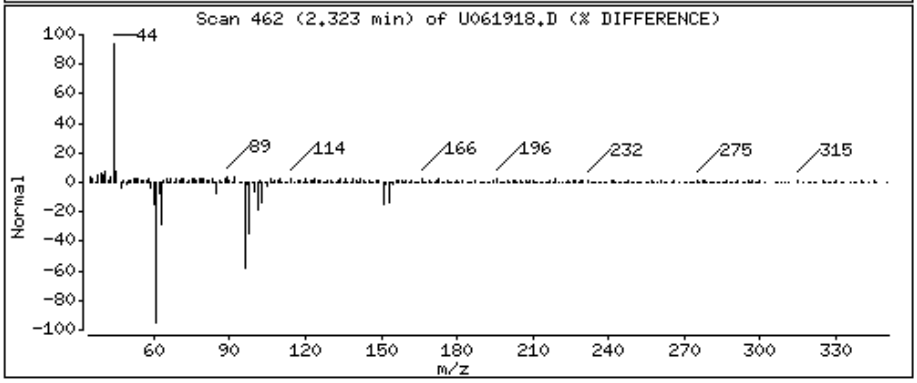


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061918.D
Inj Date  : 19-JUN-2023 16:58
InstruID  : VOA9.i
LabSampID : HS23061096-07

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061921.D  Page 1
Report Date: 21-Jun-2023 17:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061921.D
Lab Smp Id: CCV-END  Client Smp ID: CCV-END
Inj Date  : 19-JUN-2023 18:06
Operator  : PC  Inst ID: VOA9.i
Smp Info  : CCV-END;CCV-END;2;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method    : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\8260C.m
Meth Date : 21-Jun-2023 17:01 VOA9.i  Quant Type: ISTD
Cal Date  : 06-JUN-2023 13:50  Cal File: U060608.D
Als bottle: 19  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: 8260_GB.sub
Target Version:  4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 5.000 | ng unit correction factor |
| Vo | 5.000 | sample purged |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Pentafluorobenzene | 168 | 4.815 | 4.815 | (1.000) | 475550 | 50.0000 | |
| 2 Dichlorodifluoromethane | 85 | 1.164 | 1.164 | (0.242) | 194772 | 50.0000 | 44.33 |
| 3 Chloromethane | 50 | 1.299 | 1.299 | (0.270) | 289312 | 50.0000 | 40.07 |
| 5 Vinyl Chloride | 62 | 1.378 | 1.378 | (0.286) | 220311 | 50.0000 | 43.79 |
| 6 Bromomethane | 94 | 1.621 | 1.621 | (0.337) | 138598 | 50.0000 | 53.71 |
| 7 Chloroethane | 64 | 1.700 | 1.700 | (0.353) | 152405 | 50.0000 | 44.97 |
| 8 Trichlorofluoromethane | 101 | 1.899 | 1.899 | (0.394) | 314258 | 50.0000 | 54.39 |
| 9 Acrolein | 56 | 2.266 | 2.266 | (0.471) | 22971 | 100.000 | 91.00 |
| 10 Acetone | 43 | 2.409 | 2.409 | (0.500) | 170364 | 100.000 | 104.55 |
| 11 1,1-Dichloroethene | 96 | 2.334 | 2.334 | (0.485) | 170893 | 50.0000 | 47.34 |
| 15 Iodomethane | 142 | 2.469 | 2.469 | (0.513) | 276522 | 100.000 | 97.64 |
| 16 Acrylonitrile | 53 | 3.068 | 3.068 | (0.637) | 182572 | 100.000 | 103.52 |
| 17 Methylene Chloride | 84 | 2.795 | 2.795 | (0.580) | 220678 | 50.0000 | 50.90 |
| 18 Methyl tert-butyl ether | 73 | 3.083 | 3.083 | (0.640) | 578191 | 50.0000 | 52.23 |
| 19 Carbon Disulfide | 76 | 2.521 | 2.521 | (0.524) | 934589 | 100.000 | 96.84 |
| 20 trans-1,2-Dichloroethene | 96 | 3.061 | 3.061 | (0.636) | 190783 | 50.0000 | 48.59 |
| 21 Vinyl Acetate | 43 | 3.608 | 3.608 | (0.749) | 1259539 | 100.000 | 105.25 |
| 22 1,1-Dichloroethane | 63 | 3.514 | 3.514 | (0.730) | 351699 | 50.0000 | 47.14 |
| 24 2-Butanone | 43 | 4.268 | 4.268 | (0.886) | 205379 | 100.000 | 94.72 |
| 26 2,2-Dichloropropane | 77 | 4.185 | 4.185 | (0.869) | 243636 | 50.0000 | 49.39 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 27 cis-1,2-Dichloroethene | 96 | 4.197 | 4.197 (0.872) | 226457 | 50.0000 | 48.21 |
| 28 Chloroform | 83 | 4.575 | 4.575 (0.950) | 389577 | 50.0000 | 50.17 |

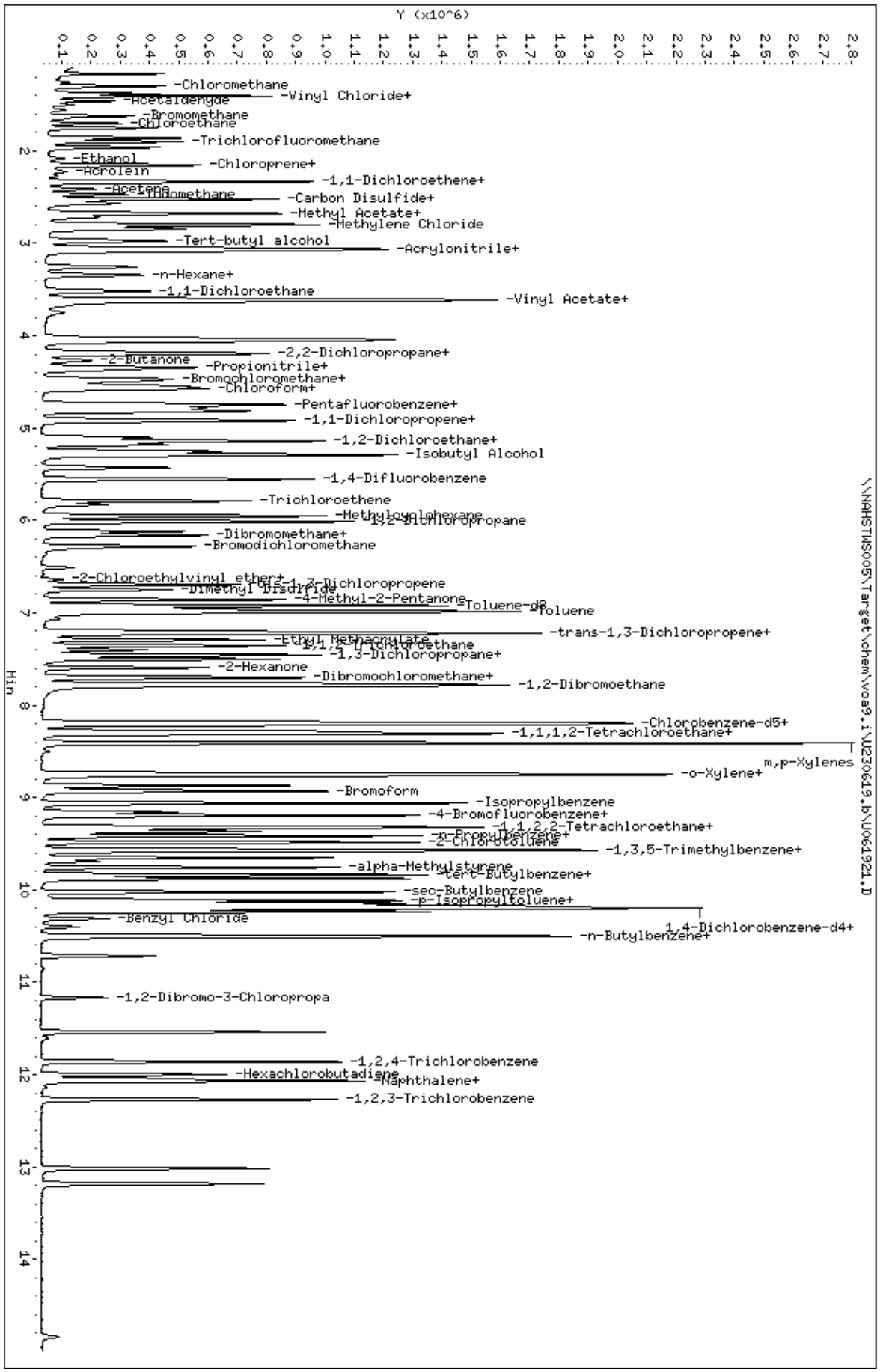
| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| | 29 Bromochloromethane | 128 | 4.470 | 4.470 | (0.928) | 124098 | 50.0000 | 47.23 |
| $ | 30 Dibromofluoromethane | 113 | 4.752 | 4.752 | (0.987) | 216902 | 50.0000 | 54.36 |
| | 31 1,1,1-Trichloroethane | 97 | 4.744 | 4.744 | (0.985) | 296751 | 50.0000 | 50.14 |
| | 32 1,1-Dichloropropene | 75 | 4.924 | 4.924 | (0.887) | 245091 | 50.0000 | 47.73 |
| | 33 1,2-Dichloroethane | 62 | 5.179 | 5.179 | (0.933) | 328486 | 50.0000 | 54.17 |
| | 34 Carbon Tetrachloride | 117 | 4.913 | 4.913 | (0.885) | 241207 | 50.0000 | 51.14 |
| $ | 35 1,2-Dichloroethane-d4 | 65 | 5.100 | 5.100 | (1.059) | 252390 | 50.0000 | 58.55 |
| * | 36 1,4-Difluorobenzene | 114 | 5.554 | 5.554 | (1.000) | 700586 | 50.0000 | |
| | 37 Benzene | 78 | 5.141 | 5.141 | (0.926) | 794006 | 50.0000 | 47.03 |
| | 38 Trichloroethene | 130 | 5.790 | 5.790 | (1.043) | 223369 | 50.0000 | 45.65 |
| | 39 Bromodichloromethane | 83 | 6.281 | 6.281 | (1.131) | 280027 | 50.0000 | 53.17 |
| | 41 2-Chloroethylvinyl ether | 63 | 6.577 | 6.577 | (1.184) | 4389 | 100.000 | 34.45 |
| | 42 1,2-Dichloropropane | 63 | 6.011 | 6.011 | (1.082) | 213995 | 50.0000 | 47.47 |
| | 44 Dibromomethane | 93 | 6.120 | 6.120 | (1.102) | 149888 | 50.0000 | 52.04 |
| | 45 4-Methyl-2-Pentanone | 43 | 6.858 | 6.858 | (0.838) | 481202 | 100.000 | 93.62 |
| | 46 cis-1,3-Dichloropropene | 75 | 6.693 | 6.693 | (1.205) | 315191 | 50.0000 | 44.87 |
| * | 47 Chlorobenzene-d5 | 117 | 8.185 | 8.185 | (1.000) | 705778 | 50.0000 | |
| $ | 48 Toluene-d8 | 98 | 6.922 | 6.922 | (0.846) | 806655 | 50.0000 | 50.49 |
| | 50 Toluene | 91 | 6.982 | 6.982 | (0.853) | 899498 | 50.0000 | 46.98 |
| | 51 trans-1,3-Dichloropropene | 75 | 7.199 | 7.199 | (1.296) | 271191 | 50.0000 | 45.96 |
| | 52 2-Hexanone | 43 | 7.593 | 7.593 | (0.928) | 321543 | 100.000 | 89.83 |
| | 53 1,1,2-Trichloroethane | 83 | 7.357 | 7.357 | (0.899) | 184115 | 50.0000 | 46.22 |
| | 54 1,3-Dichloropropane | 76 | 7.499 | 7.499 | (0.916) | 384931 | 50.0000 | 47.30 |
| | 55 Dibromochloromethane | 129 | 7.694 | 7.694 | (0.940) | 253705 | 50.0000 | 53.68 |
| | 56 Tetrachloroethene | 164 | 7.458 | 7.458 | (0.911) | 201041 | 50.0000 | 43.10 |
| | 57 1,2-Dibromoethane | 107 | 7.784 | 7.784 | (0.951) | 236532 | 50.0000 | 48.14 |
| | 58 1-Chlorohexane | 55 | 8.197 | 8.197 | (1.476) | 161543 | 50.0000 | 44.90 |
| | 59 Chlorobenzene | 112 | 8.212 | 8.212 | (1.003) | 631756 | 50.0000 | 46.24 |
| | 60 1,1,1,2-Tetrachloroethane | 131 | 8.287 | 8.287 | (1.012) | 235908 | 50.0000 | 50.24 |
| | 61 Ethylbenzene | 106 | 8.305 | 8.305 | (1.015) | 292624 | 50.0000 | 46.01 |
| | 62 m,p-Xylenes | 106 | 8.410 | 8.410 | (1.027) | 729344 | 100.000 | 96.94 |
| | 63 o-Xylene | 106 | 8.748 | 8.748 | (1.069) | 360540 | 50.0000 | 48.51 |
| | 64 Styrene | 104 | 8.763 | 8.763 | (1.071) | 610010 | 50.0000 | 51.72 |
| | 66 Bromoform | 173 | 8.920 | 8.920 | (1.090) | 169307 | 50.0000 | 53.07 |
| | 67 Isopropylbenzene | 105 | 9.062 | 9.062 | (1.107) | 853972 | 50.0000 | 47.83 |
| | 68 1,1,2,2-Tetrachloroethane | 83 | 9.329 | 9.329 | (0.917) | 319978 | 50.0000 | 44.59 |
| $ | 69 4-Bromofluorobenzene | 95 | 9.194 | 9.194 | (1.123) | 348400 | 50.0000 | 55.45 |
| * | 70 1,4-Dichlorobenzene-d4 | 152 | 10.172 | 10.172 | (1.000) | 381494 | 50.0000 | |
| | 71 1,2,3-Trichloropropane | 75 | 9.362 | 9.362 | (0.920) | 290984 | 50.0000 | 46.09 |
| | 73 n-Propylbenzene | 91 | 9.411 | 9.411 | (0.925) | 911820 | 50.0000 | 45.56 |
| | 74 Bromobenzene | 156 | 9.317 | 9.317 | (0.916) | 288587 | 50.0000 | 44.83 |
| | 75 1,3,5-Trimethylbenzene | 105 | 9.561 | 9.561 | (0.940) | 602062 | 50.0000 | 43.85 |
| | 76 2-Chlorotoluene | 91 | 9.482 | 9.482 | (0.932) | 637230 | 50.0000 | 45.30 |
| | 77 4-Chlorotoluene | 91 | 9.576 | 9.576 | (0.941) | 728028 | 50.0000 | 46.75 |
| | 78 tert-Butylbenzene | 119 | 9.838 | 9.838 | (0.967) | 592696 | 50.0000 | 43.95 |
| | 79 1,2,4-Trimethylbenzene | 105 | 9.880 | 9.880 | (0.971) | 622394 | 50.0000 | 43.32 |
| | 81 sec-Butylbenzene | 105 | 10.022 | 10.022 | (0.985) | 748131 | 50.0000 | 43.75 |
| | 82 p-Isopropyltoluene | 119 | 10.146 | 10.146 | (0.997) | 625443 | 50.0000 | 43.66 |
| | 83 1,3-Dichlorobenzene | 146 | 10.116 | 10.116 | (0.994) | 473096 | 50.0000 | 43.27 |
| | 84 1,4-Dichlorobenzene | 146 | 10.191 | 10.191 | (1.002) | 498757 | 50.0000 | 42.78 |
| | 87 n-Butylbenzene | 91 | 10.494 | 10.494 | (1.032) | 509484 | 50.0000 | 41.54 |
| | 88 1,2-Dichlorobenzene | 146 | 10.506 | 10.506 | (1.033) | 486918 | 50.0000 | 44.42 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 89 | 1,2-Dibromo-3-Chloropropane | 155 | 11.169 | 11.169 (1.098) | 45500 | 50.0000 | 43.45 |
| 90 | 1,2,4-Trichlorobenzene | 180 | 11.859 | 11.859 (1.166) | 307881 | 50.0000 | 40.83 |

| | Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|---|
| 91 | Hexachlorobutadiene | 225 | 11.998 | 11.998 | (1.179) | 117020 | 50.0000 | 38.43 |
| 92 | Naphthalene | 128 | 12.069 | 12.069 | (1.186) | 766568 | 50.0000 | 43.77 |
| 93 | 1,2,3-Trichlorobenzene | 180 | 12.271 | 12.271 | (1.206) | 309357 | 50.0000 | 41.97 |
| M 94 | 1,2-Dichloroethylene (total) | 96 | | | | 417240 | 100.000 | (a) |
| 135 | 1,4-Dioxane | 88 | 6.172 | 6.172 | (1.282) | 60785 | 1000.00 | 643.72 |
| 141 | Cyclohexane | 56 | 4.785 | 4.785 | (0.994) | 238747 | 50.0000 | 41.06 |
| 138 | Freon TF | 101 | 2.337 | 2.337 | (0.485) | 158356 | 50.0000 | 49.58 |
| 140 | 1,3-Butadiene | 54 | 1.404 | 1.404 | (0.292) | 198901 | 50.0000 | 44.16 |
| 147 | Methylcyclohexane | 55 | 5.947 | 5.947 | (1.071) | 481488 | 50.0000 | 49.54 |
| 146 | Methyl Acetate | 43 | 2.716 | 2.716 | (0.564) | 193833 | 50.0000 | 48.40 |
| 148 | Tert-Butyl alcohol | 59 | 2.971 | 2.971 | (0.617) | 449323 | 1000.00 | 1022.72 |
| 149 | Isopropyl Alcohol | 45 | 2.566 | 2.566 | (0.533) | 292813 | 1000.00 | 941.88 |
| 72 | trans-1,4-Dichloro-2-butene | 53 | 9.377 | 9.377 | (1.146) | 39928 | 50.0000 | 49.13 |
| 12 | Isobutyl Alcohol | 43 | 5.291 | 5.291 | (1.099) | 715828 | 1000.00 | 1158.53 |
| 13 | Acetonitrile | 39 | 2.675 | 2.675 | (0.556) | 282767 | 500.000 | 549.21 |
| 14 | Allyl Chloride | 41 | 2.675 | 2.675 | (0.556) | 600280 | 50.0000 | 48.61 |
| 25 | Methacrylonitrile | 41 | 4.497 | 4.497 | (0.934) | 145029 | 50.0000 | 51.61 |
| 40 | Methyl Methacrylate | 41 | 6.157 | 6.157 | (1.279) | 217265 | 50.0000 | 53.13 |
| 4 | Propionitrile | 54 | 4.343 | 4.343 | (0.902) | 344371 | 500.000 | 501.13 |
| 136 | n-Hexane | 57 | 3.342 | 3.342 | (0.694) | 162935 | 50.0000 | 41.25 |
| 194 | Acetaldehyde | 44 | 1.460 | 1.460 | (0.303) | 139427 | 200.000 | 212.58(M) |
| 131 | Methyl Acrylate | 55 | 4.373 | 4.373 | (0.908) | 260110 | 50.0000 | 51.71 |
| 49 | Ethyl Methacrylate | 69 | 7.293 | 7.293 | (1.313) | 319343 | 50.0000 | 51.99 |
| 166 | 1,2,3-Trimethylbenzene | 105 | 10.236 | 10.236 | (1.006) | 688302 | 50.0000 | 46.93 |
| 156 | Diisopropyl ether | 45 | 3.623 | 3.623 | (0.752) | 669089 | 50.0000 | 50.45 |
| 162 | Butyl acrylate | 55 | 8.733 | 8.733 | (1.067) | 398258 | 50.0000 | 47.70 |
| 203 | 2-Ethylhexyl Acrylate | 55 | 12.043 | 12.043 | (1.184) | 159395 | 50.0000 | 44.04 |

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\voa9.i\U230619.b\U061921.D
Date : 19-JUN-2023 18:06
Client ID: CCV-END
Sample Info: CCV-END,CCV-END,2,,,
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

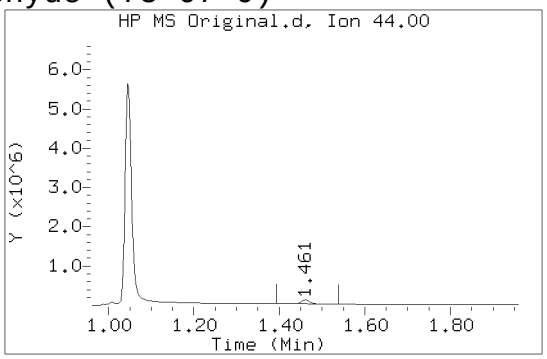
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230619.b\U061921.D
Inj Date : 19-JUN-2023 18:06
InstruID : VOA9.i
LabSampID : CCV-END

Acetaldehyde (75-07-0)

Reason Code:

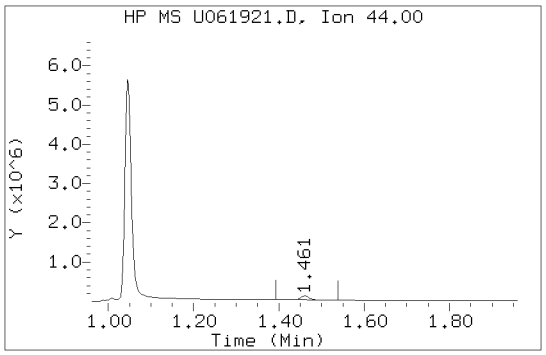
BEFORE

MASS
44
AREA
139427
HEIGHT
105397
20-Jun-2023
10:49
linh
pham



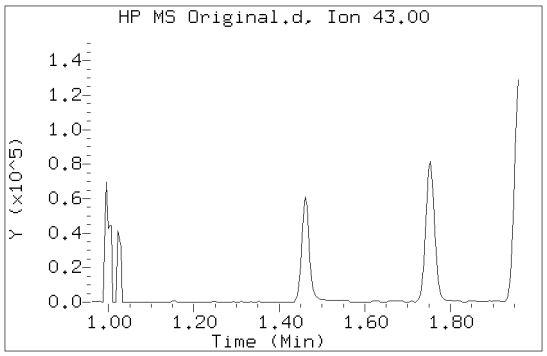

AFTER

MASS
44
AREA
139427
HEIGHT
105397
21-Jun-2023
17:00
linh
pham



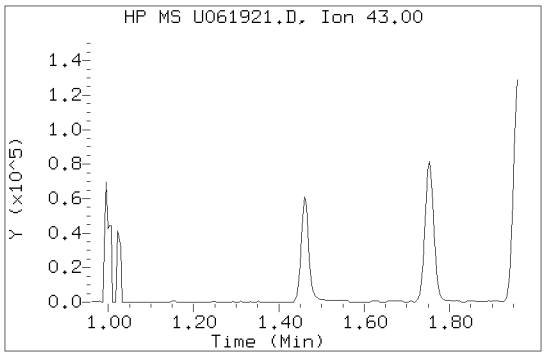

BEFORE

MASS
43
AREA
0
HEIGHT
0
20-Jun-2023
10:49
linh
pham



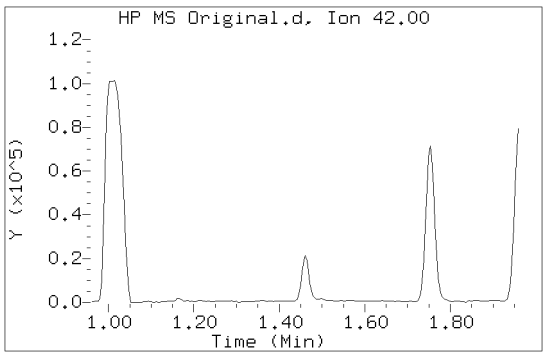

AFTER

MASS
43
AREA
0
HEIGHT
0
21-Jun-2023
17:00
linh
pham



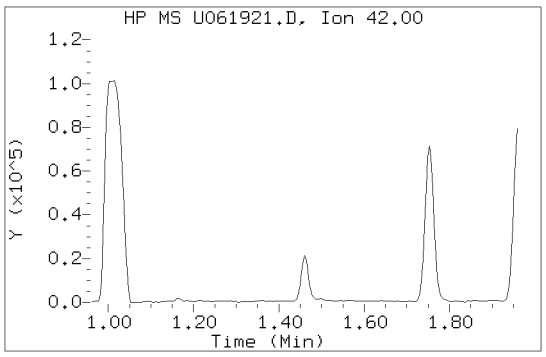

BEFORE

MASS
42
AREA
0
HEIGHT
0
20-Jun-2023
10:49
linh
pham




AFTER

MASS
42
AREA
0
HEIGHT
0
21-Jun-2023
17:00
linh
pham



# HS23061096-MSSEMI-SW8270SIM

ALS WO# HS23061096

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Form 1

# Organic Analysis Data Sheet

## Semi-Volatiles by EPA 8270SIM

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

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

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

## Semi-Volatiles by EPA 8270SIM

HS23061096-02

**18CPTMW12SW_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 07:40 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile | PrepBatch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ug/L | 0.016 | | 0.010 | 0.010 | 0.010 | 1 | 06/26/23 13:52 | SV-6_439713 | 10.D | 195363 |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

## Semi-Volatiles by EPA 8270SIM

HS23061096-03

**18CPTMW12DW_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 08:25 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile | PrepBatch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ug/L | 0.020 | | 0.010 | 0.010 | 0.010 | 1 | 06/26/23 14:10 | SV-6_439713 | 11.D | 195363 |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

## Semi-Volatiles by EPA 8270SIM

HS23061096-04

**MW7_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 09:10 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile | PrepBatch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ug/L | 0.86 | | 0.10 | 0.10 | 0.10 | 10 | 06/26/23 15:40 | SV-6_439713 | 16.D | 195363 |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder **HS23061096**

## Semi-Volatiles by EPA 8270SIM

HS23061096-07

**MW8_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 10:40 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile | PrepBatch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ug/L | 0.34 | | 0.010 | 0.010 | 0.010 | 1 | 06/26/23 14:46 | SV-6_439713 | 13.D | 195363 |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

## Semi-Volatiles by EPA 8270SIM

HS23061096-08

**18WW06_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 11:30 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile | PrepBatch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ug/L | 0.038 | | 0.010 | 0.010 | 0.010 | 1 | 06/26/23 15:04 | SV-6_439713 | 14.D | 195363 |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

## Semi-Volatiles by EPA 8270SIM

HS23061096-09

**18WW02_061423**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| 06/14/23 12:15 | 06/15/23 09:40 | Groundwater | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile | PrepBatch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ug/L | 0.010 | U | 0.010 | 0.010 | 0.010 | 1 | 06/26/23 15:22 | SV-6_439713 | 15.D | 195363 |

# Form 1 - Organic Analysis Data Sheet

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

## Semi-Volatiles by EPA 8270SIM

MBLK-195363

**MBLK-195363**

| Collected | Received | Matrix | Basis |
|---|---|---|---|
| NA | NA | Aqueous | Wet |

| Analyte | Units | Result | Q | DL | LOD | LOQ | DF | Analysis Date | Run ID | DataFile | PrepBatch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ug/L | 0.030 | U | 0.010 | 0.030 | 0.030 | 1 | 06/26/23 12:04 | SV-6_439713 | 07.D | 195363 |

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Form 2

# System Monitoring Compound Recovery

## Semi-Volatiles by EPA 8270SIM

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

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 /Site18/24

Workorder: HS23061096

RunID: SV-6-439713

## Semi-Volatiles by EPA 8270SIM

| HS23061096-02 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 18CPTMW12SW_061423 | 06/26/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 0.075 | 0.08 | 93.3 | | 40-140 |
| 4-Terphenyl-d14 | 0.087 | 0.08 | 109 | | 40-140 |
| Nitrobenzene-d5 | 0.069 | 0.08 | 86.0 | | 40-140 |

| HS23061096-03 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 18CPTMW12DW_061423 | 06/26/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 0.084 | 0.08 | 104 | | 40-140 |
| 4-Terphenyl-d14 | 0.089 | 0.08 | 111 | | 40-140 |
| Nitrobenzene-d5 | 0.072 | 0.08 | 89.4 | | 40-140 |

| HS23061096-04 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| MW7_061423 | 06/26/23 | %REC | 10 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 0.09 | 0.08 | 112 | | 40-140 |
| 4-Terphenyl-d14 | 0.088 | 0.08 | 110 | | 40-140 |
| Nitrobenzene-d5 | 0.08 | 0.08 | 100.0 | | 40-140 |

| HS23061096-07 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| MW8_061423 | 06/26/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 0.09 | 0.08 | 112 | | 40-140 |
| 4-Terphenyl-d14 | 0.089 | 0.08 | 111 | | 40-140 |
| Nitrobenzene-d5 | 0.073 | 0.08 | 91.7 | | 40-140 |

# Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP /Site18/24

Workorder: HS23061096

RunID: SV-6-439713

## Semi-Volatiles by EPA 8270SIM

| HS23061096-08 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 18WW06_061423 | 06/26/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 0.087 | 0.08 | 109 | | 40-140 |
| 4-Terphenyl-d14 | 0.081 | 0.08 | 102 | | 40-140 |
| Nitrobenzene-d5 | 0.072 | 0.08 | 89.8 | | 40-140 |

| HS23061096-09 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| 18WW02_061423 | 06/26/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 0.087 | 0.08 | 108 | | 40-140 |
| 4-Terphenyl-d14 | 0.085 | 0.08 | 106 | | 40-140 |
| Nitrobenzene-d5 | 0.071 | 0.08 | 88.6 | | 40-140 |

| LCS-195363 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| LCS-195363 | 06/26/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 0.08973 | 0.08 | 112 | | 40-140 |
| 4-Terphenyl-d14 | 0.1113 | 0.08 | 139 | | 40-140 |
| Nitrobenzene-d5 | 0.0747 | 0.08 | 93.4 | | 40-140 |

| LCSD-195363 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| LCSD-195363 | 06/26/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 0.09272 | 0.08 | 116 | | 40-140 |
| 4-Terphenyl-d14 | 0.11 | 0.08 | 137 | | 40-140 |
| Nitrobenzene-d5 | 0.07877 | 0.08 | 98.5 | | 40-140 |

# Form 2 - System Monitoring Compound Recovery

| | | | |
|---|---|---|---|
| **Client** | Bhate Environmental Associates, Inc. | Workorder | |
| **Project** | LHAAP /Site18/24 | **HS23061096** | |

RunID

## Semi-Volatiles by EPA 8270SIM

SV-6-439713

| MBLK-195363 | Analyzed | Conc Units | Dilution |
|---|---|---|---|
| MBLK-195363 | 06/26/23 | %REC | 1 |

| Surrogate | Result Conc | Spike Conc | %Recovery | Q | %Recovery Limits |
|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 0.08907 | 0.08 | 111 | | 40-140 |
| 4-Terphenyl-d14 | 0.08314 | 0.08 | 104 | | 40-140 |
| Nitrobenzene-d5 | 0.07801 | 0.08 | 97.5 | | 40-140 |

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Form 3B

# Laboratory Control Sample Recovery

## Semi-Volatiles by EPA 8270SIM

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

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 /Site18/24

Workorder
**HS23061096**

SAMPLENUM
LCS-195363

## Semi-Volatiles by EPA 8270SIM

| SV-6_439713 | | | | LCS-195363 | | | LCSD-195363 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spike Matrix | Aqueous | | Run Date | 06/26/23 | | | 06/26/23 | | | | | |
| Result Units | ug/L | | Run Time | 12:22 | | | 13:34 | | | | | |
| Prep Method | SW3510 | | Data File | 08.D | | | 09.D | | | | | |
| Prep Date | 06/18/23 | Prep Batch 195363 | Prep Amt | 1000 mL | | | 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 | 0.0707 | 88 | | 0.06908 | 86.0 | | 20 | 2.33 | |

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

# Form 3B - Laboratory Control Sample Recovery

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

SAMPLENUM
LCSD-195363

## Semi-Volatiles by EPA 8270SIM

| SV-6_439713 | | | | LCSD-195363 | | |
|---|---|---|---|---|---|---|
| Spike Matrix | Aqueous | | Run Date | 06/26/23 | | |
| Result Units | ug/L | | Run Time | 13:34 | | |
| Prep Method | SW3510 | | Data File | 09.D | | |
| Prep Date | 06/18/23 | Prep Batch 195363 | Prep Amt | 1000 mL | | |

| Analyte | %Recovery Limits | Spike Added | LCS Result | %R | Q |
|---|---|---|---|---|---|
| 1,4-Dioxane | 40-140 | 0.08 | 0.06908 | 86 | |

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 4

# Method Blank Summary

## Semi-Volatiles by EPA 8270SIM

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

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 /Site18/24

Workorder
**HS23061096**

## Semi-Volatiles by EPA 8270SIM

| Client Sample ID | Type | Lab Sample ID | File ID | Date Analyzed | Run ID |
|---|---|---|---|---|---|
| METHOD BLANK | MBLK | MBLK-195363 | 07.D | 06/26/23 12:04 | SV-6_439713 |
| LCS-195363 | LCS | LCS-195363 | 08.D | 06/26/23 12:22 | SV-6_439713 |
| LCSD-195363 | LCSD | LCSD-195363 | 09.D | 06/26/23 13:34 | SV-6_439713 |
| 18CPTMW12SW_061423 | SAMP | HS23061096-02 | 10.D | 06/26/23 13:52 | SV-6_439713 |
| 18CPTMW12DW_061423 | SAMP | HS23061096-03 | 11.D | 06/26/23 14:10 | SV-6_439713 |
| MW8_061423 | SAMP | HS23061096-07 | 13.D | 06/26/23 14:46 | SV-6_439713 |
| 18WW06_061423 | SAMP | HS23061096-08 | 14.D | 06/26/23 15:04 | SV-6_439713 |
| 18WW02_061423 | SAMP | HS23061096-09 | 15.D | 06/26/23 15:22 | SV-6_439713 |
| MW7_061423 | SAMP | HS23061096-04 | 16.D | 06/26/23 15:40 | SV-6_439713 |

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Form 5

# Instrument Performance Check

# Semi-Volatiles by EPA 8270SIM

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

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 - Instrument Performance Check

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

RunID
SV-6-439923

## Semi-Volatiles by EPA 8270SIM

Tune File 01.D 06/16/23 6/16/2023

| m / e | Ion Abundance Criterion | %RA |
|---|---|---|
| 51 | 30.0 - 80.0% of mass 198 | 40.3 (40.3) |
| 68 | Less than 2.0% of mass 69 | 0.5 (1.44) 1 |
| 69 | Mass 69 RA | 32.2 (32.2) |
| 70 | Less than 2.0% of mass 69 | 0.2 (0.502) 1 |
| 127 | 25.0 - 75.0% of mass 198 | 38.5 (38.5) |
| 197 | Less than 1.0% of mass 198 | 0.5 (0.46) |
| 198 | Base peak, 100% RA | 100 (83.3) |
| 199 | 5.0 - 9.0% of mass 198 | 6.5 (6.46) |
| 275 | 10.0 - 30.0% of mass 198 | 25.8 (25.8) |
| 365 | Greater than 0.75% of mass 198 | 3.4 (3.43) |
| 441 | Present, but less than mass 443 | 17.7 (76.4) |
| 442 | 40.0 - 110.0% of mass 198 | 120.1 (120) |
| 443 | 15.0 - 24.0% of mass 442 | 23.2 (19.3) 2 |

%RA - Percent Relative Abundance

This check applies to the following analyses

| | Lab Samp ID | Type | Date Analyzed | Lab File ID | Sample ID |
|---|---|---|---|---|---|
| 1 | 14DXICAL- | ICAL1 | 6/16/2023 | 04 | 14DXICAL-0.01 |
| 2 | 14DXICAL- | ICAL2 | 6/16/2023 | 05 | 14DXICAL-0.03 |
| 3 | 14DXICAL- | ICAL3 | 6/16/2023 | 06 | 14DXICAL-0.05 |
| 4 | 14DXICAL- | ICAL4 | 6/16/2023 | 07 | 14DXICAL-0.08 |
| 5 | 14DXICAL- | ICAL6 | 6/16/2023 | 09 | 14DXICAL-0.15 |
| 6 | 14DXICAL-0.1 | ICAL5 | 6/16/2023 | 12 | 14DXICAL-0.1 |
| 7 | 14DXICAL-0.5 | ICAL8 | 6/16/2023 | 14 | 14DXICAL-0.5 |
| 8 | 14DXICAL-0.2 | ICAL7 | 6/16/2023 | 15 | 14DXICAL-0.2 |
| 9 | 14DXICV-0.08 | ICV | 6/16/2023 | 16 | 14DXICV-0.08 |

# Form 5 - Instrument Performance Check

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

RunID
SV-6-439713

## Semi-Volatiles by EPA 8270SIM

**Tune File** 01.D 06/26/23 6/26/2023

| m / e | Ion Abundance Criterion | %RA |
|---|---|---|
| 51 | 30.0 - 80.0% of mass 198 | 42.6 (42.6) |
| 68 | Less than 2.0% of mass 69 | 0.5 (1.49) 1 |
| 69 | Mass 69 RA | 34.3 (34.3) |
| 70 | Less than 2.0% of mass 69 | 0.1 (0.431) 1 |
| 127 | 25.0 - 75.0% of mass 198 | 38.6 (38.6) |
| 197 | Less than 1.0% of mass 198 | 0.5 (0.545) |
| 198 | Base peak, 100% RA | 100 (78.2) |
| 199 | 5.0 - 9.0% of mass 198 | 6.6 (6.56) |
| 275 | 10.0 - 30.0% of mass 198 | 27 (27) |
| 365 | Greater than 0.75% of mass 198 | 3.9 (3.89) |
| 441 | Present, but less than mass 443 | 19.3 (79) |
| 442 | 40.0 - 110.0% of mass 198 | 127.9 (128) |
| 443 | 15.0 - 24.0% of mass 442 | 24.4 (19.1) 2 |

%RA - Percent Relative Abundance

This check applies to the following analyses

| | Lab Samp ID | Type | Date Analyzed | Lab File ID | Sample ID |
|---|---|---|---|---|---|
| 1 | MBLK-195363 | MBLK | 6/21/2023 | 15 | MBLK-195363 |
| 2 | LCS-195363 | LCS | 6/21/2023 | 16 | LCS-195363 |
| 3 | LCSD-195363 | LCSD | 6/21/2023 | 17 | LCSD-195363 |
| 4 | 14DX-0.08 | CCV | 6/26/2023 | 03 | 14DX-0.08 |
| 5 | MBLK-195363 | MBLK | 6/26/2023 | 07 | MBLK-195363 |
| 6 | LCS-195363 | LCS | 6/26/2023 | 08 | LCS-195363 |
| 7 | LCSD-195363 | LCSD | 6/26/2023 | 09 | LCSD-195363 |
| 8 | HS23061096- | SAMP | 6/26/2023 | 10 | 18CPTMW12SW_061423 |
| 9 | HS23061096- | SAMP | 6/26/2023 | 11 | 18CPTMW12DW_061423 |
| 10 | HS23061096- | SAMP | 6/26/2023 | 13 | MW8_061423 |
| 11 | HS23061096- | SAMP | 6/26/2023 | 14 | 18WW06_061423 |
| 12 | HS23061096- | SAMP | 6/26/2023 | 15 | 18WW02_061423 |
| 13 | HS23061096- | SAMP | 6/26/2023 | 16 | MW7_061423 |
| 14 | 14DXCCV- | CCV | 6/26/2023 | 17 | 14DXCCV-END |

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Form 6

# Initial Calibration Data

## Semi-Volatiles by EPA 8270SIM

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

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

# Initial Calibration Data

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

**RunID** SV-6_439923

## Semi-Volatiles by EPA 8270SIM

**ICAL Start Date** 10-MAR-2022 1025
**ICAL End Date** 16-JUN-2023 1556

**Calibration file names**
**Level 1** ..target\chem\sv6.i\230616.b\04.d
**Level 2** ..target\chem\sv6.i\230616.b\05.d
**Level 3** ..target\chem\sv6.i\230616.b\06.d
**Level 4** ..target\chem\sv6.i\230616.b\07.d
**Level 5** ..target\chem\sv6.i\230616.b\12.d
**Level 6** ..target\chem\sv6.i\230616.b\09.d

| Compound | 0.20000<br>Level 7<br>0.01000<br>Level 1 | 0.50000<br>Level 8<br>0.03000<br>Level 2 | 0.05000<br>Level 3 | 0.08000<br>Level 4 | 0.10000<br>Level 5 | 0.15000<br>Level 6 | RRF | %RSD | Q |
|---|---|---|---|---|---|---|---|---|---|
| **1,4-Dioxane** | 0.30124<br>0.40150 | 0.32659<br>0.31193 | 0.32643 | 0.34940 | 0.35892 | 0.33837 | 0.33930 | 9.241 | |
| **2-Fluorophenol** | 0.40150<br>NE<br>NE | 0.31193<br>NE<br>NE | NE | NE | NE | NE | 0.33930<br>NE | 9.241<br>NE | |
| **13 Phenol-d6** | NE<br>NE | NE<br>NE | NE | NE | NE | NE | NE | NE | |
| **33 Nitrobenzene-d5** | 0.28832<br>0.34832 | 0.28035<br>0.27609 | 0.30204 | 0.32108 | 0.30808 | 0.30634 | 0.30383 | 7.735 | |
| **69 2-Fluorobiphenyl** | 0.98985<br>1.25227 | 0.97067<br>0.94386 | 0.97876 | 1.06873 | 0.97017 | 1.00640 | 1.02259 | 9.764 | |
| **105 2,4,6-Tribromophenol** | NE<br>NE | NE<br>NE | NE | NE | NE | NE | NE | NE | |
| **158 4-Terphenyl-d14** | 0.60104<br>1.00267 | 0.68127<br>0.75942 | 0.64541 | 0.74244 | 0.75380 | 0.71602 | 0.73776 | 16.347 | |

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)

## Semi-Volatiles by EPA 8270SIM

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

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

# Initial Calibration Verification (ICV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

RunID SV-6_439923

## Semi-Volatiles by EPA 8270SIM

**Sample Matrix** LIQUID
**Lab Smp Id** 14DXICV-0.08
**Level** LOW
**Fraction** SV
**Client Smp ID** 14DXICV-0.08
**Operator** LG

| Compound | CONC Added | CONC Recovered | % Recovered | Limits | Q |
|---|---|---|---|---|---|
| 1,4-Dioxane | 0.08000 | 0.07070 | 88.38 | 40-140 | |
| Nitrobenzene-d5 | 0.08000 | 0.07086 | 88.57 | 40-140 | |
| 2-Fluorobiphenyl | 0.08000 | 0.08036 | 100.45 | 40-140 | |
| 4-Terphenyl-d14 | 0.08000 | 0.08379 | 104.74 | 40-140 | |

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Form 7

# Continuing Calibration Verification (CCV)

## Semi-Volatiles by EPA 8270SIM

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

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

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

**RunID** SV-6_439713

## Semi-Volatiles by EPA 8270SIM

**Instrument ID** SV6.I
**Lab File ID** 03.D
**Analysis Type** WATER
**Lab Sample ID** 14DX-0.08

**Injection Date** 26-JUN-2023 10:25
**ICAL Date(s)** 10-MAR-2022 16-JUN-2023
**ICAL Times** 10:25 15:56
**Quant Type** ISTD

| Compound | $\overline{RRF}$ / Conc | RF0.080 | Min RRF | %D / %DRIFT | Max %D / %DRIFT | CURVE TYPE | Q |
|---|---|---|---|---|---|---|---|
| 33 Nitrobenzene-d5 | 0.30383 | 0.29669 | 0.010 | -2.34878 | 20.0 | Averaged | |
| 69 2-Fluorobiphenyl | 1.02259 | 1.07221 | 0.010 | 4.85208 | 20.0 | Averaged | |
| 158 4-Terphenyl-d14 | 0.73776 | 0.59085 | 0.010 | -19.91290 | 20.0 | Averaged | |
| 1,4-Dioxane | 0.33930 | 0.31937 | 0.010 | -5.87300 | 20.0 | Averaged | |

# Continuing Calibration Verification (CCV)

**Client** Bhate Environmental Associates, Inc.
**Project** LHAAP /Site18/24

**Workorder** HS23061096

RunID SV-6_439713

## Semi-Volatiles by EPA 8270SIM

**Instrument ID** SV6.I
**Lab File ID** 17.D
**Analysis Type** WATER
**Lab Sample ID** 14DXCCV-END Quant Type

**Injection Date** 26-JUN-2023 15:58
**ICAL Date(s)** 10-MAR-2022 16-JUN-2023
**ICAL Times** 10:25 15:56
ISTD

| Compound | $\overline{RRF}$ / Conc | RF0.080 | Min RRF | %D / %DRIFT | Max %D / %DRIFT | CURVE TYPE | Q |
|---|---|---|---|---|---|---|---|
| 33 Nitrobenzene-d5 | 0.30383 | 0.27637 | 0.010 | -9.03841 | 50.0 | Averaged | |
| 69 2-Fluorobiphenyl | 1.02259 | 1.03750 | 0.010 | 1.45851 | 50.0 | Averaged | |
| 158 4-Terphenyl-d14 | 0.73776 | 0.75080 | 0.010 | 1.76817 | 50.0 | Averaged | |
| 1,4-Dioxane | 0.33930 | 0.31396 | 0.010 | -7.46771 | 50.0 | Averaged | |

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Form 12

# Preparation Log

## Semi-VolatilesEPA 3510

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

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

# Form 12 - Preparation Log

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

RunID
195363

## Semi-VolatilesEPA 3510

**Prep Batch** 195363 **Prep Date** 06/18/23

| | Matrix | Type | Client Sample ID | Lab Sample ID | Initial Amt (mL) | Final Amt (mL) |
|---|---|---|---|---|---|---|
| 1 | Aqueous | MBLK | MBLK-195363 | MBLK-195363 | 1000 | 1 |
| 2 | Aqueous | LCS | LCS-195363 | LCS-195363 | 1000 | 1 |
| 3 | Aqueous | LCSD | LCSD-195363 | LCSD-195363 | 1000 | 1 |
| 4 | Groundwater | SAMP | 18CPTMW12SW_061423 | HS23061096-02 | 1000 | 1 |
| 5 | Groundwater | SAMP | 18CPTMW12DW_061423 | HS23061096-03 | 1000 | 1 |
| 6 | Groundwater | SAMP | MW7_061423 | HS23061096-04 | 1000 | 1 |
| 7 | Groundwater | SAMP | MW8_061423 | HS23061096-07 | 1000 | 1 |
| 8 | Groundwater | SAMP | 18WW06_061423 | HS23061096-08 | 1000 | 1 |
| 9 | Groundwater | SAMP | 18WW02_061423 | HS23061096-09 | 1000 | 1 |

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# Analysis Run Log

## Semi-Volatiles by EPA 8270SIM

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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# Form 13 - Analysis Run Log

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

RunID
SV-6-439923

## Semi-Volatiles by EPA 8270SIM

**Run ID** SV-6_439923 **Start Date** 06/16/23 **EndDate** 06/16/23

| Inj. Time | Client Sample ID | Type | Lab Sample ID | File ID | Analysis Date | DF |
|---|---|---|---|---|---|---|
| 09:28 | DFTPP | TUNE | DFTPP | 01.D | 06/16/23 | 1 |
| 11:08 | 14DXICAL-0.01 | ICAL1 | 14DXICAL-0.01 | 04.D | 06/16/23 | 1 |
| 11:26 | 14DXICAL-0.03 | ICAL2 | 14DXICAL-0.03 | 05.D | 06/16/23 | 1 |
| 11:44 | 14DXICAL-0.05 | ICAL3 | 14DXICAL-0.05 | 06.D | 06/16/23 | 1 |
| 12:02 | 14DXICAL-0.08 | ICAL4 | 14DXICAL-0.08 | 07.D | 06/16/23 | 1 |
| 12:38 | 14DXICAL-0.15 | ICAL6 | 14DXICAL-0.15 | 09.D | 06/16/23 | 1 |
| 14:15 | 14DXICAL-0.1 | ICAL5 | 14DXICAL-0.1 | 12.D | 06/16/23 | 1 |
| 14:51 | 14DXICAL-0.5 | ICAL8 | 14DXICAL-0.5 | 14.D | 06/16/23 | 1 |
| 15:56 | 14DXICAL-0.2 | ICAL7 | 14DXICAL-0.2 | 15.D | 06/16/23 | 1 |
| 16:22 | 14DXICV-0.08 | ICV | 14DXICV-0.08 | 16.D | 06/16/23 | 1 |

# Form 13 - Analysis Run Log

**Client** Bhate Environmental Associates, Inc.

**Project** LHAAP /Site18/24

Workorder
**HS23061096**

RunID
SV-6-439713

## Semi-Volatiles by EPA 8270SIM

**Run ID** SV-6_439713 **Start Date** 06/21/23 **EndDate** 06/26/23

| Inj. Time | Client Sample ID | Type | Lab Sample ID | File ID | Analysis Date | DF |
|---|---|---|---|---|---|---|
| 09:31 | DFTPP | TUNE | DFTPP | 01.D | 06/26/23 | 1 |
| 10:25 | 14DX-0.08 | CCV | 14DX-0.08 | 03.D | 06/26/23 | 1 |
| 13:12 | HS23061109-18 | SAMP | ZZZZZZZZZZ | 06.D | 06/23/23 | 10000 |
| 13:32 | HS23061109-20 | SAMP | ZZZZZZZZZZ | 07.D | 06/23/23 | 10000 |
| 12:04 | MBLK-195363 | MBLK | MBLK-195363 | 07.D | 06/26/23 | 1 |
| 12:22 | LCS-195363 | LCS | LCS-195363 | 08.D | 06/26/23 | 1 |
| 13:34 | LCSD-195363 | LCSD | LCSD-195363 | 09.D | 06/26/23 | 1 |
| 13:52 | HS23061096-02 | SAMP | 18CPTMW12SW_0614 | 10.D | 06/26/23 | 1 |
| 14:10 | HS23061096-03 | SAMP | 18CPTMW12DW_0614 | 11.D | 06/26/23 | 1 |
| 14:46 | HS23061096-07 | SAMP | MW8_061423 | 13.D | 06/26/23 | 1 |
| 15:04 | HS23061096-08 | SAMP | 18WW06_061423 | 14.D | 06/26/23 | 1 |
| 15:55 | MBLK-195363 | MBLK | MBLK-195363 | 15.D | 06/21/23 | 1 |
| 17:09 | HS23061109-13 | SAMP | ZZZZZZZZZZ | 15.D | 06/22/23 | 100 |
| 15:22 | HS23061096-09 | SAMP | 18WW02_061423 | 15.D | 06/26/23 | 1 |
| 16:15 | LCS-195363 | LCS | LCS-195363 | 16.D | 06/21/23 | 1 |
| 17:30 | HS23061109-13 | SAMP | ZZZZZZZZZZ | 16.D | 06/22/23 | 1000 |
| 15:40 | HS23061096-04 | SAMP | MW7_061423 | 16.D | 06/26/23 | 10 |
| 16:35 | LCSD-195363 | LCSD | LCSD-195363 | 17.D | 06/21/23 | 1 |
| 15:58 | 14DXCCV-END | CCV | 14DXCCV-END | 17.D | 06/26/23 | 1 |
| 16:56 | HS23061109-13 | SAMP | ZZZZZZZZZZ | 18.D | 06/21/23 | 1 |
| 18:10 | HS23061109-18 | SAMP | ZZZZZZZZZZ | 18.D | 06/22/23 | 1000 |
| 17:16 | HS23061109-14 | SAMP | ZZZZZZZZZZ | 19.D | 06/21/23 | 1 |
| 16:34 | HS23061102-01 | SAMP | ZZZZZZZZZZ | 19.D | 06/26/23 | 1 |
| 17:36 | HS23061109-15 | SAMP | ZZZZZZZZZZ | 20.D | 06/21/23 | 1 |
| 18:51 | HS23061109-19 | SAMP | ZZZZZZZZZZ | 20.D | 06/22/23 | 1000 |
| 17:57 | HS23061109-16 | SAMP | ZZZZZZZZZZ | 21.D | 06/21/23 | 1 |
| 18:17 | HS23061109-17 | SAMP | ZZZZZZZZZZ | 22.D | 06/21/23 | 1 |
| 19:32 | HS23061109-20 | SAMP | ZZZZZZZZZZ | 22.D | 06/22/23 | 1000 |
| 18:37 | HS23061109-18 | SAMP | ZZZZZZZZZZ | 23.D | 06/21/23 | 1 |
| 18:58 | HS23061109-19 | SAMP | ZZZZZZZZZZ | 24.D | 06/21/23 | 1 |
| 19:18 | HS23061109-20 | SAMP | ZZZZZZZZZZ | 25.D | 06/21/23 | 1 |

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# Raw Data SV 6 439923

# Semi-Volatiles by EPA 8270SIM

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Data File: \\nahstws005\Target\chem\SV6.i\230616.b\01.D Page 1
Report Date: 16-Jun-2023 09:41

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\SV6.i\230616.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 16-JUN-2023 09:28
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230616.b\DFTPP.m
Meth Date : 14-Mar-2023 15:59 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: NAHSTW7015

| 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 | | |
| 5.009 | 6.357 | -1.348 | 198 | 573312 | | | 0.00- 100.00 | 83.28 |
| 5.009 | 6.357 | -1.348 | 51 | 231176 | | | 10.00- 80.00 | 40.32 |
| 5.009 | 6.357 | -1.348 | 68 | 2654 | | | 0.00- 2.00 | 1.44 |
| 5.009 | 6.357 | -1.348 | 69 | 184729 | | | 0.00- 0.00 | 32.22 |
| 5.009 | 6.357 | -1.348 | 70 | 927 | | | 0.00- 2.00 | 0.50 |
| 5.009 | 6.357 | -1.348 | 127 | 220864 | | | 10.00- 80.00 | 38.52 |
| 5.009 | 6.357 | -1.348 | 197 | 2637 | | | 0.00- 2.00 | 0.46 |
| 5.009 | 6.357 | -1.348 | 199 | 37040 | | | 5.00- 9.00 | 6.46 |
| 5.009 | 6.357 | -1.348 | 275 | 147776 | | | 10.00- 60.00 | 25.78 |
| 5.009 | 6.357 | -1.348 | 365 | 19688 | | | 1.00- 100.00 | 3.43 |
| 5.009 | 6.357 | -1.348 | 441 | 101568 | | | 0.01- 99.99 | 76.45 |
| 5.009 | 6.357 | -1.348 | 442 | 688448 | | | 50.00- 150.00 | 120.08 |
| 5.009 | 6.357 | -1.348 | 443 | 132864 | | | 15.00- 24.00 | 19.30 |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 198 | 40.32 |
| 68 | Less than 2.00% of mass 69 | 0.46 ( 1.44) |
| 69 | Mass 69 relative abundance | 32.22 |
| 70 | Less than 2.00% of mass 69 | 0.16 ( 0.50) |
| 127 | 10.00 - 80.00% of mass 198 | 38.52 |
| 197 | Less than 2.00% of mass 198 | 0.46 |
| 199 | 5.00 - 9.00% of mass 198 | 6.46 |
| 275 | 10.00 - 60.00% of mass 198 | 25.78 |
| 365 | 1.00 - 100.00% of mass 198 | 3.43 |
| 441 | Present, but less than mass 443 | 17.72 |
| 442 | 50.00 - 150.00% of mass 198 | 120.08 |
| 443 | 15.00 - 24.00% of mass 442 | 23.17 ( 19.30) |

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 453: 5.010 min. (SUB)
Location of Maximum: 442.10
Number of points: 316

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 37.10 | 691 | 128.10 | 16159 | 209.00 | 1513 | 297.00 | 5492 |
| 38.00 | 1909 | 129.00 | 84336 | 210.10 | 2201 | 298.00 | 365 |
| 39.10 | 12523 | 130.00 | 6769 | 211.00 | 6102 | 301.00 | 640 |
| 40.00 | 181 | 131.00 | 1444 | 213.00 | 401 | 302.00 | 602 |
| 40.90 | 276 | 132.10 | 794 | 214.00 | 192 | 303.10 | 4693 |
| 45.00 | 312 | 133.10 | 248 | 215.00 | 1503 | 304.00 | 1179 |
| 49.00 | 1051 | 134.00 | 2156 | 216.00 | 2932 | 304.90 | 175 |
| 50.10 | 53200 | 135.00 | 6519 | 217.00 | 39448 | 308.00 | 557 |
| 51.10 | 231168 | 136.00 | 2427 | 218.00 | 4584 | 309.00 | 385 |
| 52.10 | 12049 | 137.10 | 3257 | 219.00 | 408 | 310.00 | 461 |
| 53.00 | 444 | 138.10 | 689 | 221.10 | 31488 | 311.10 | 249 |
| 55.00 | 841 | 139.00 | 436 | 221.70 | 5812 | 311.90 | 184 |
| 56.00 | 6699 | 140.00 | 864 | 223.00 | 9377 | 312.90 | 383 |
| 57.00 | 16176 | 141.00 | 10733 | 224.10 | 87680 | 314.00 | 1739 |
| 58.00 | 734 | 142.00 | 3754 | 225.10 | 21984 | 315.00 | 3954 |
| 61.00 | 2603 | 143.00 | 2343 | 226.00 | 2230 | 316.10 | 2781 |
| 62.00 | 2746 | 144.00 | 787 | 227.00 | 33024 | 317.00 | 633 |
| 63.00 | 8959 | 145.00 | 657 | 228.00 | 4457 | 319.90 | 232 |
| 64.00 | 1134 | 146.10 | 1823 | 229.00 | 7608 | 321.00 | 1268 |
| 65.10 | 3754 | 147.00 | 5380 | 230.00 | 950 | 322.00 | 605 |
| 66.20 | 170 | 148.00 | 12478 | 231.00 | 3201 | 323.10 | 14516 |
| 66.90 | 176 | 149.00 | 2115 | 232.00 | 487 | 324.00 | 2985 |
| 68.00 | 2654 | 150.00 | 633 | 233.00 | 674 | 325.00 | 302 |
| 69.00 | 184704 | 151.60 | 2531 | 234.00 | 1838 | 326.00 | 247 |
| 70.00 | 927 | 152.00 | 808 | 235.00 | 2392 | 327.00 | 2521 |
| 71.10 | 180 | 153.00 | 3358 | 236.00 | 1374 | 328.00 | 1205 |
| 73.00 | 1217 | 154.00 | 2616 | 237.00 | 2292 | 329.00 | 338 |
| 74.00 | 17520 | 155.00 | 6177 | 238.00 | 338 | 332.00 | 1141 |
| 75.00 | 28192 | 156.10 | 9411 | 239.00 | 1122 | 333.00 | 1368 |
| 76.10 | 9960 | 157.00 | 2001 | 240.00 | 936 | 334.10 | 8776 |
| 77.10 | 218880 | 158.00 | 2113 | 241.00 | 1871 | 335.00 | 2203 |
| 78.10 | 13466 | 159.00 | 1675 | 242.00 | 4359 | 336.00 | 187 |
| 79.00 | 12046 | 160.10 | 3244 | 243.10 | 4502 | 339.10 | 380 |
| 80.00 | 9791 | 161.00 | 5606 | 244.10 | 67632 | 339.90 | 281 |
| 81.00 | 14216 | 162.00 | 1730 | 245.10 | 8922 | 341.00 | 1623 |
| 82.00 | 3653 | 163.00 | 400 | 246.00 | 11263 | 342.10 | 476 |
| 83.00 | 3381 | 164.00 | 727 | 247.00 | 2407 | 346.00 | 2738 |
| 84.00 | 184 | 165.00 | 4330 | 248.10 | 663 | 347.00 | 596 |
| 85.00 | 2227 | 166.00 | 3419 | 249.00 | 2399 | 350.90 | 220 |
| 86.00 | 3237 | 167.00 | 24512 | 250.00 | 534 | 352.10 | 4359 |
| 87.00 | 1991 | 168.00 | 9507 | 251.00 | 626 | 353.00 | 3284 |
| 88.00 | 676 | 169.10 | 1791 | 252.00 | 592 | 354.10 | 4838 |
| 89.00 | 341 | 170.00 | 842 | 253.00 | 1532 | 355.00 | 896 |
| 91.00 | 2912 | 170.90 | 1000 | 254.00 | 2136 | 359.00 | 467 |
| 92.00 | 3110 | 172.00 | 2269 | 255.00 | 354304 | 365.00 | 19688 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 93.00 | 21304 | 173.10 | 2549 | 256.00 | 51136 | 366.00 | 2752 |
| 94.00 | 1218 | 174.00 | 5175 | 257.00 | 3611 | 370.10 | 513 |
| 95.00 | 484 | 175.00 | 9799 | 258.00 | 18768 | 371.00 | 1054 |
| 96.00 | 924 | 176.00 | 2683 | 259.00 | 3038 | 372.00 | 8081 |
| 97.10 | 374 | 177.00 | 3904 | 260.00 | 415 | 373.10 | 1766 |
| 98.00 | 16345 | 178.00 | 1303 | 261.00 | 547 | 374.00 | 321 |
| 99.00 | 11441 | 179.00 | 17472 | 263.00 | 216 | 377.00 | 254 |
| 100.00 | 1118 | 180.00 | 12918 | 264.00 | 482 | 383.00 | 2280 |
| 101.00 | 8931 | 181.00 | 6121 | 265.00 | 7562 | 384.00 | 529 |
| 101.90 | 481 | 182.10 | 939 | 266.00 | 1247 | 385.00 | 199 |
| 103.00 | 2466 | 183.00 | 711 | 267.90 | 202 | 390.10 | 1132 |
| 104.00 | 4787 | 184.00 | 1198 | 270.00 | 419 | 391.00 | 640 |
| 105.00 | 4856 | 185.10 | 9374 | 270.90 | 595 | 392.00 | 528 |
| 106.00 | 1473 | 186.10 | 74288 | 272.00 | 859 | 401.00 | 506 |
| 107.00 | 67952 | 187.10 | 20504 | 273.00 | 9955 | 402.00 | 3420 |
| 108.00 | 9807 | 188.00 | 2068 | 274.00 | 26688 | 403.00 | 5432 |
| 109.00 | 1838 | 189.00 | 3837 | 275.00 | 147776 | 404.00 | 1627 |
| 110.00 | 123544 | 189.90 | 682 | 276.10 | 18968 | 405.00 | 236 |
| 111.00 | 17696 | 191.00 | 2262 | 277.00 | 11809 | 415.00 | 201 |
| 112.00 | 1819 | 192.00 | 6230 | 278.00 | 1774 | 421.00 | 5131 |
| 112.90 | 638 | 193.10 | 7049 | 279.00 | 482 | 422.00 | 3941 |
| 114.00 | 179 | 194.00 | 1444 | 280.90 | 159 | 423.00 | 33192 |
| 114.80 | 238 | 195.00 | 1036 | 282.00 | 357 | 424.00 | 5796 |
| 116.00 | 3334 | 196.10 | 15513 | 283.00 | 1383 | 425.00 | 632 |
| 117.00 | 50184 | 197.00 | 2637 | 284.00 | 975 | 434.00 | 155 |
| 118.10 | 3139 | 198.00 | 573312 | 285.00 | 2248 | 436.70 | 155 |
| 119.00 | 504 | 199.00 | 37040 | 286.10 | 556 | 441.10 | 101568 |
| 120.00 | 697 | 200.00 | 3218 | 289.00 | 393 | 442.10 | 688448 |
| 121.00 | 285 | 201.50 | 2802 | 290.00 | 552 | 443.10 | 132864 |
| 122.00 | 4036 | 203.00 | 3916 | 291.00 | 367 | 444.10 | 12072 |
| 123.10 | 5628 | 204.00 | 19400 | 291.90 | 558 | 445.00 | 733 |
| 124.00 | 2843 | 205.10 | 32656 | 293.00 | 2916 | | |
| 125.00 | 2735 | 206.10 | 146944 | 294.00 | 680 | | |
| 126.10 | 975 | 207.10 | 18016 | 295.00 | 908 | | |
| 127.00 | 220864 | 208.10 | 4201 | 296.00 | 40008 | | |

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
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Inj Date : 16-JUN-2023 11:08
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:20 Cal File: 08.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.128 | 3.128 | (1.000) | 5079 | 0.10000 | (a) |
| * 45 Naphthalene-d8 | 136 | 4.220 | 4.220 | (1.000) | 17862 | 0.10000 | |
| $ 33 Nitrobenzene-d5 | 82 | 3.584 | 3.584 | (0.849) | 515 | 0.01000 | 0.009537(QM) |
| * 86 Acenaphthene-d10 | 164 | 5.883 | 5.883 | (1.000) | 10143 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 5.245 | 5.245 | (0.891) | 1004 | 0.01000 | 0.009665(M) |
| * 126 Phenanthrene-d10 | 188 | 7.322 | 7.322 | (1.000) | 20228 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 10.023 | 10.023 | (1.000) | 14841 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.909 | 8.909 | (0.889) | 892 | 0.01000 | 0.008235(M) |
| * 198 Perylene-d12 | 264 | 11.945 | 11.945 | (1.000) | 14498 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.486 | 1.486 | (0.475) | 153 | 0.01000 | 0.008943(aQM) |

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.

01196805

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D

Page 1

Date : 16-JUN-2023 11:08

Client ID: 14DXICAL-0.01

Instrument: SV6.i

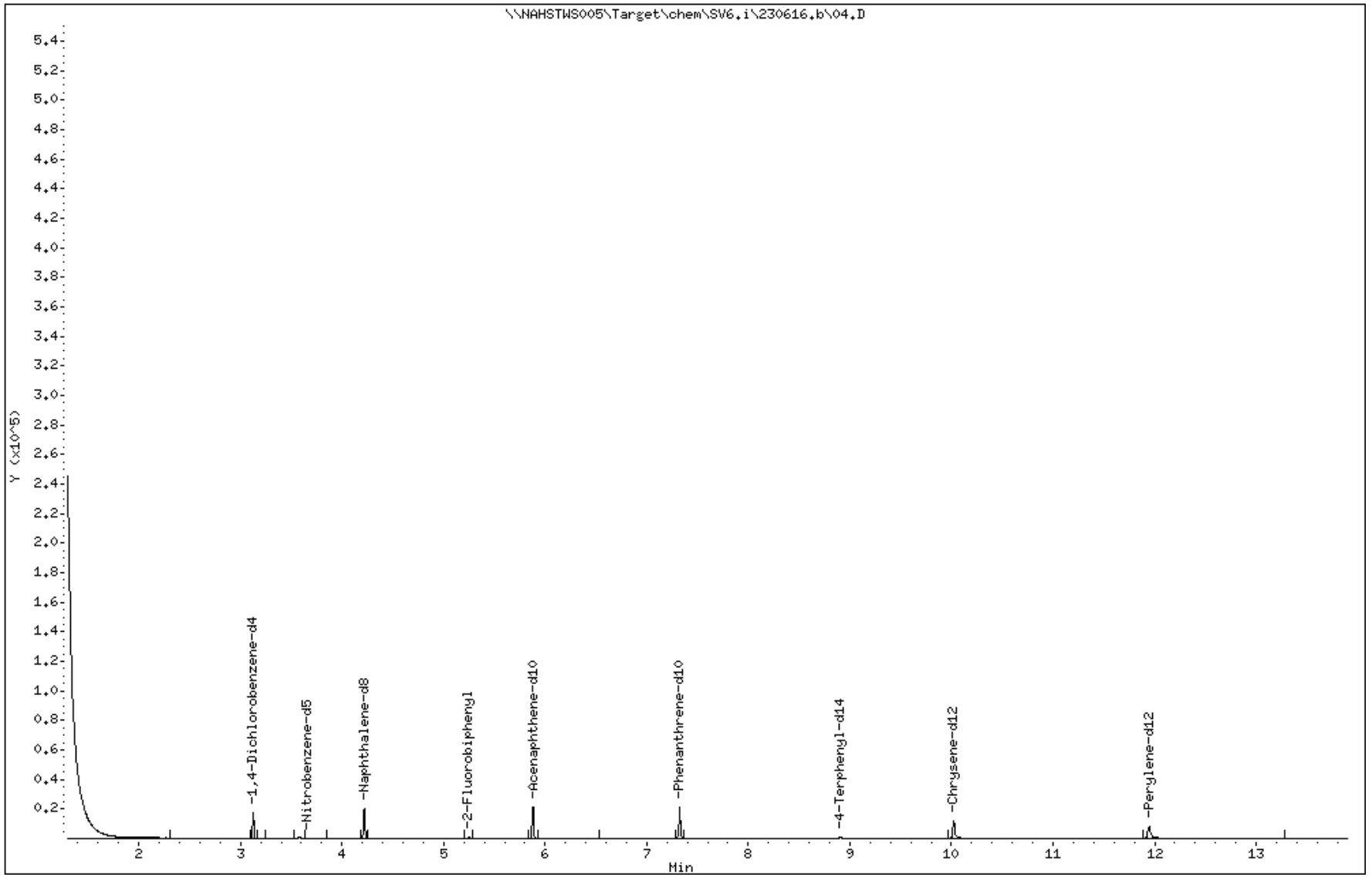
Sample Info: 14DXICAL-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

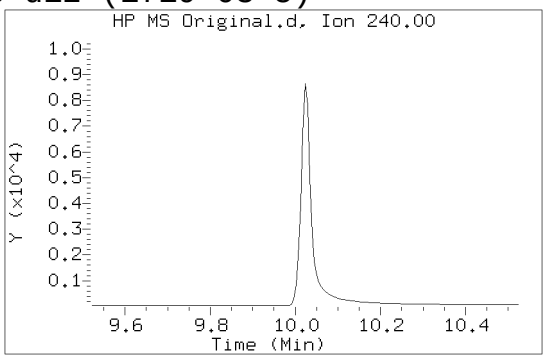


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Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

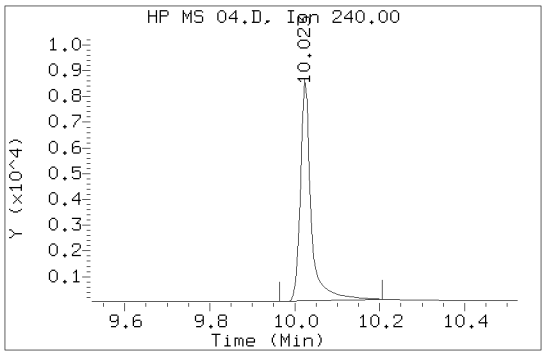
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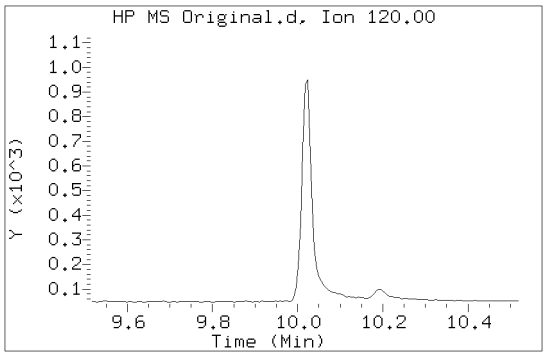
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HEIGHT
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16-Jun-2023
11:24
ALSHS
Server



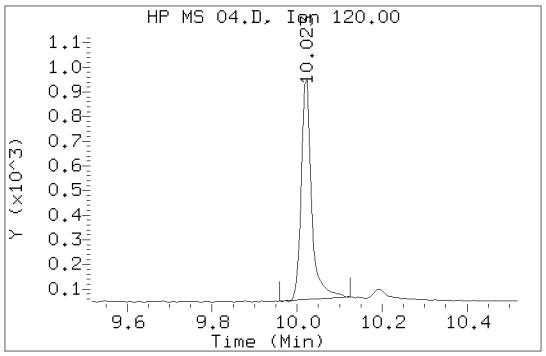

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HEIGHT
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29-Jun-2023
14:26
ALSHS
Ser



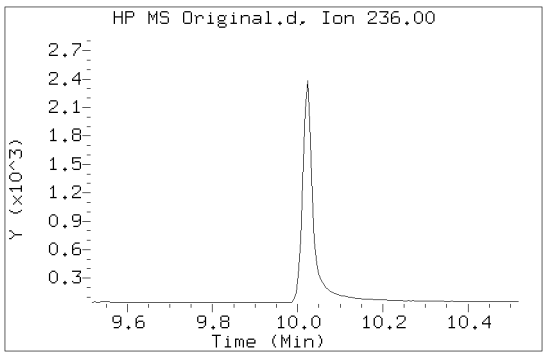

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AREA
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HEIGHT
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16-Jun-2023
11:24
ALSHS
Server



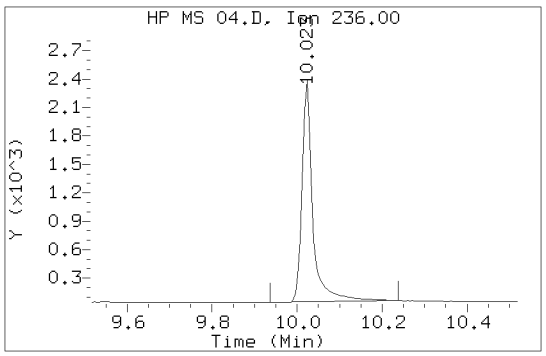

AFTER
MASS
120
AREA
1504
HEIGHT
891
29-Jun-2023
14:26
ALSHS
Ser




BEFORE
MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



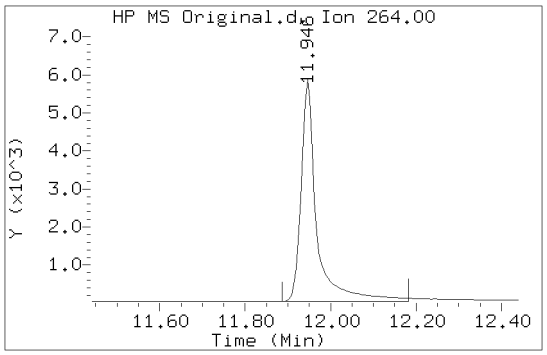

AFTER
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AREA
4047
HEIGHT
2330
29-Jun-2023
14:26
ALSHS
Ser



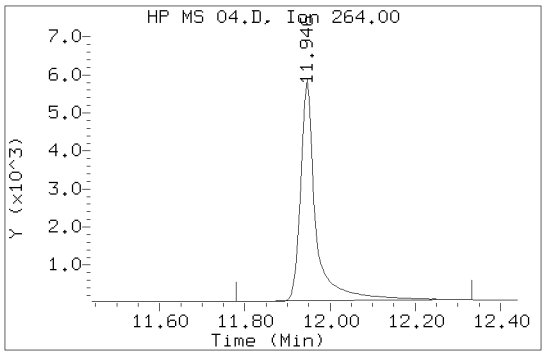

## Perylene-d12 (1520-96-3)

Reason Code:

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MASS
264
AREA
14674
HEIGHT
5826
16-Jun-2023
11:24
ALSHS
Server




AFTER
MASS
264
AREA
14498
HEIGHT
5814
29-Jun-2023
14:26
ALSHS
Ser



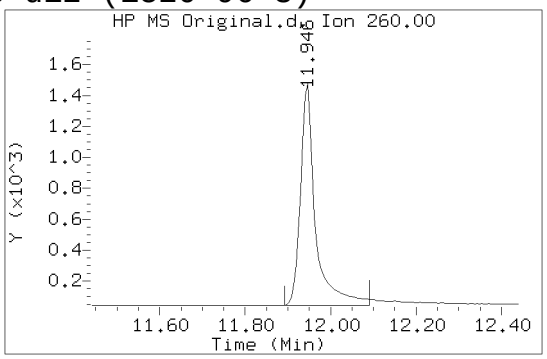
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Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

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

Reason Code:

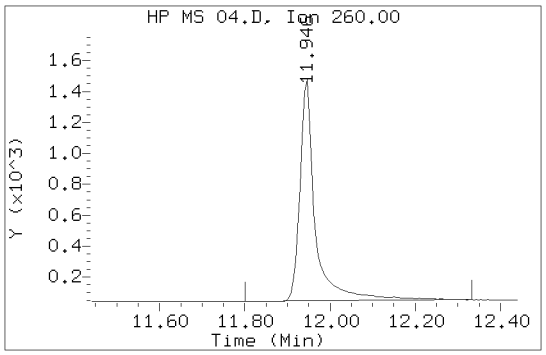
**BEFORE**

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AREA
3461
HEIGHT
1431
16-Jun-2023
11:24
ALSHS
Server



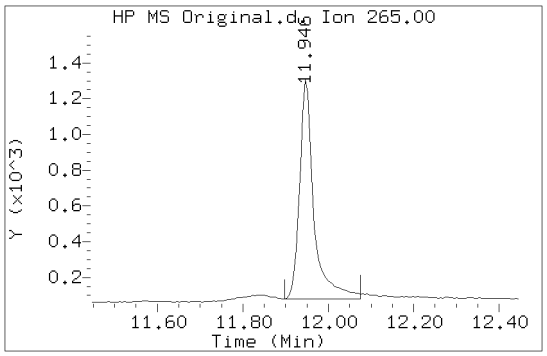

**AFTER**

MASS
260
AREA
3563
HEIGHT
1428
29-Jun-2023
14:26
ALSHS
Ser



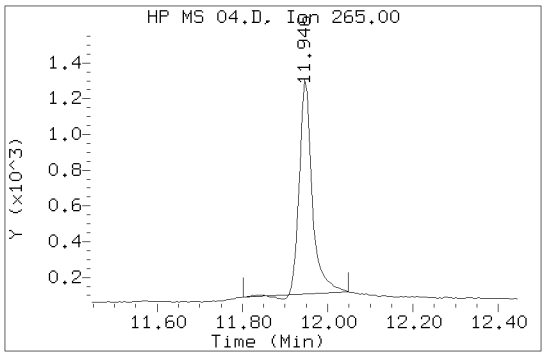

**BEFORE**

MASS
265
AREA
2841
HEIGHT
1225
16-Jun-2023
11:24
ALSHS
Server




**AFTER**

MASS
265
AREA
2485
HEIGHT
1196
29-Jun-2023
14:26
ALSHS
Ser

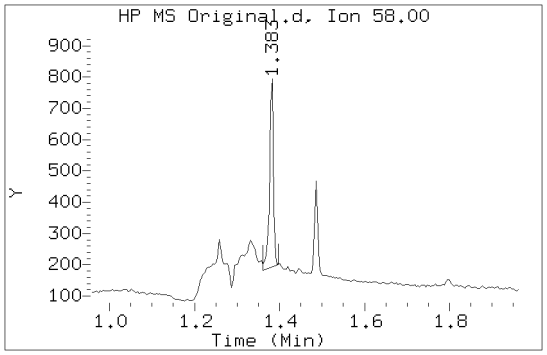



## 1,4-Dioxane ()

Reason Code:

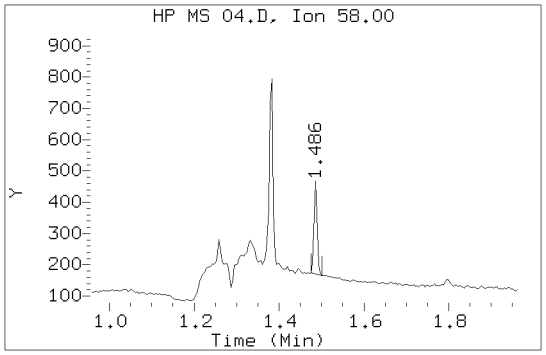
**BEFORE**

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AREA
375
HEIGHT
599
16-Jun-2023
11:24
ALSHS
Server



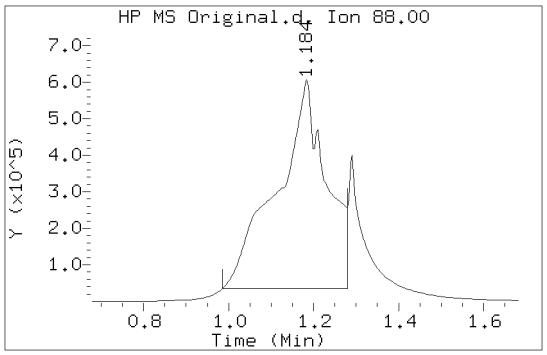

**AFTER**

MASS
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AREA
153
HEIGHT
296
29-Jun-2023
14:26
ALSHS
Ser



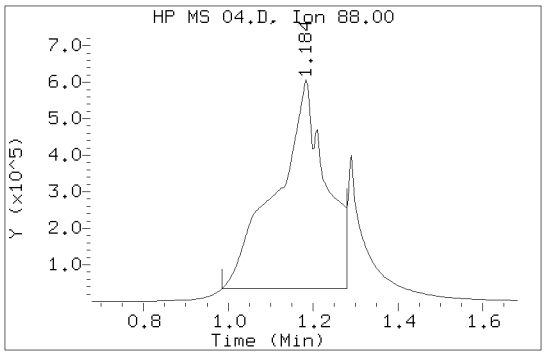

**BEFORE**

MASS
88
AREA
4618745
HEIGHT
572488
16-Jun-2023
11:24
ALSHS
Server




**AFTER**

MASS
88
AREA
4618745
HEIGHT
572488
29-Jun-2023
14:26
ALSHS
Ser

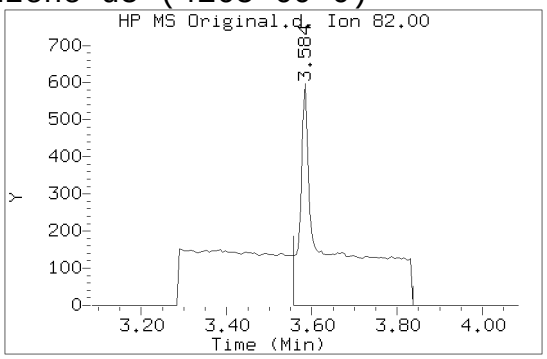


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InstruID : SV6.i
LabSampID : 14DXICAL-0.01

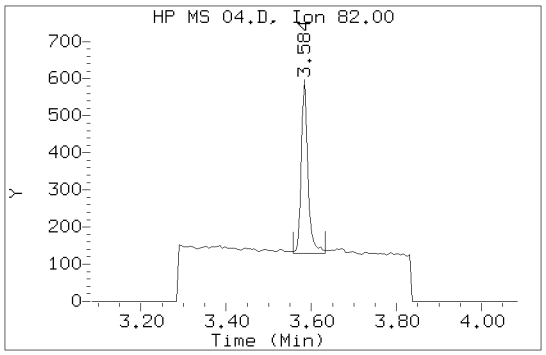
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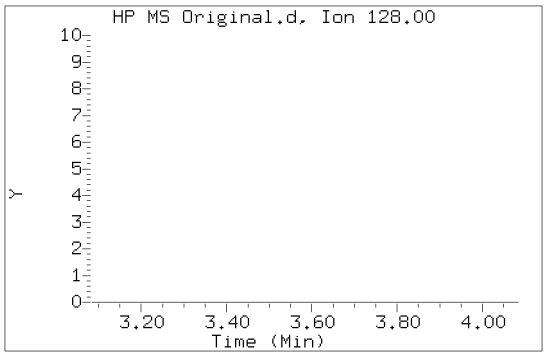
BEFORE
MASS
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AREA
2695
HEIGHT
597
16-Jun-2023
11:24
ALSHS
Server



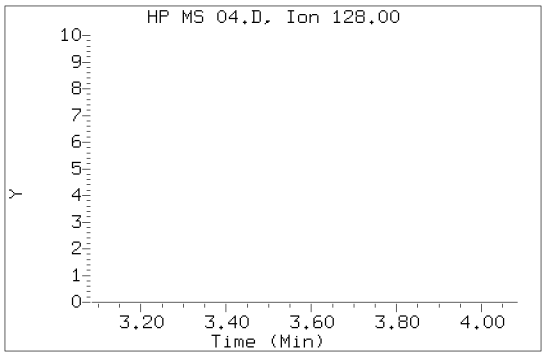

AFTER
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AREA
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HEIGHT
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29-Jun-2023
14:26
ALSHS
Ser



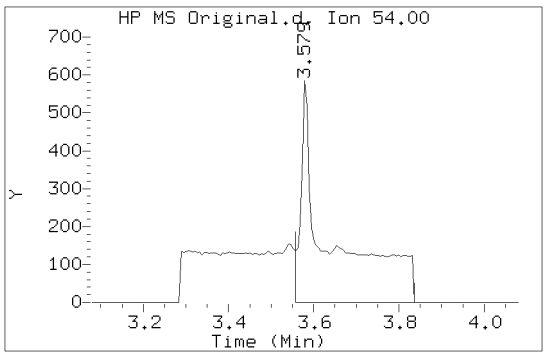

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AREA
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HEIGHT
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16-Jun-2023
11:24
ALSHS
Server



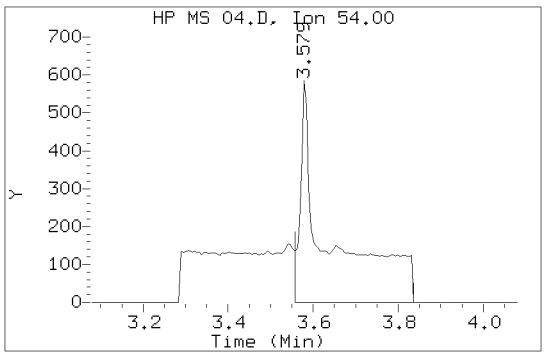

AFTER
MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser




BEFORE
MASS
54
AREA
2634
HEIGHT
585
16-Jun-2023
11:24
ALSHS
Server



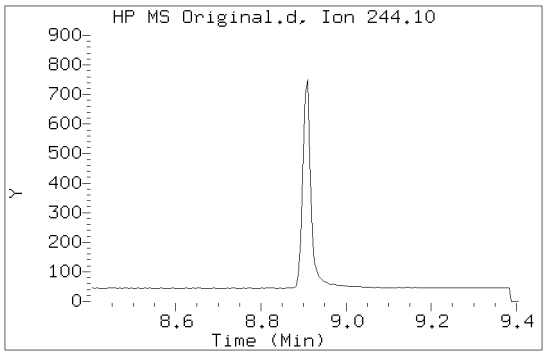

AFTER
MASS
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AREA
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HEIGHT
585
29-Jun-2023
14:26
ALSHS
Ser



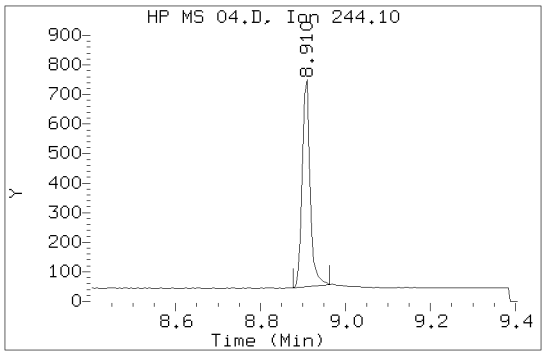

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

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AREA
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HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server




AFTER
MASS
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AREA
892
HEIGHT
699
29-Jun-2023
14:26
ALSHS
Ser



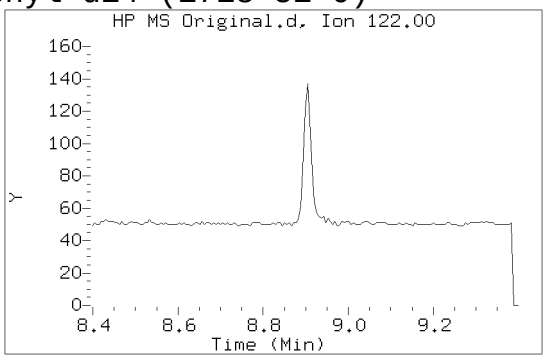
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Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

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

Reason Code:

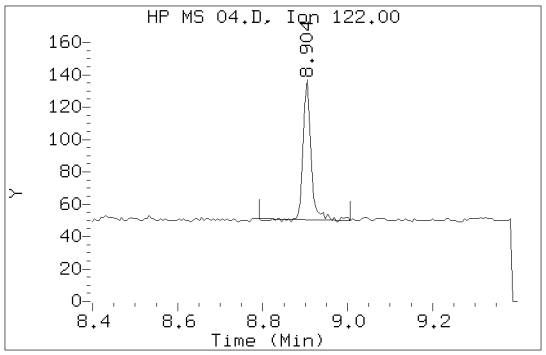
BEFORE

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AREA
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HEIGHT
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16-Jun-2023
11:24
ALSHS
Server



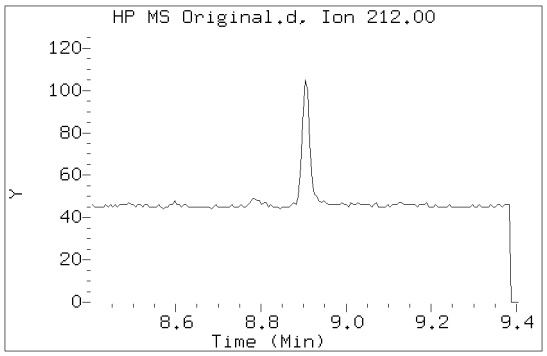

AFTER

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AREA
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HEIGHT
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29-Jun-2023
14:26
ALSHS
Ser



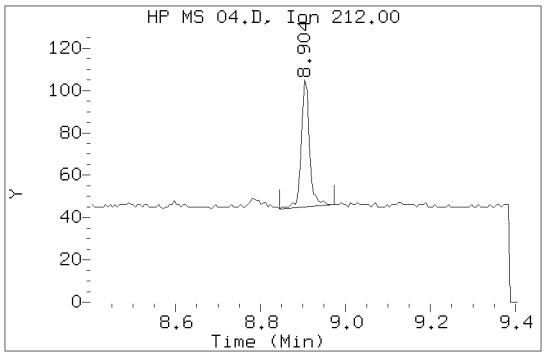

BEFORE

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HEIGHT
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16-Jun-2023
11:24
ALSHS
Server




AFTER

MASS
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AREA
80
HEIGHT
60
29-Jun-2023
14:26
ALSHS
Ser

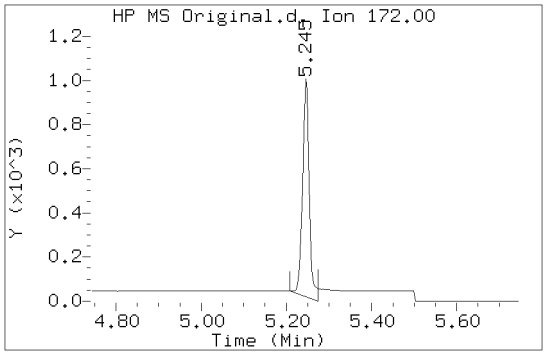



## 2-Fluorobiphenyl (321-60-8)

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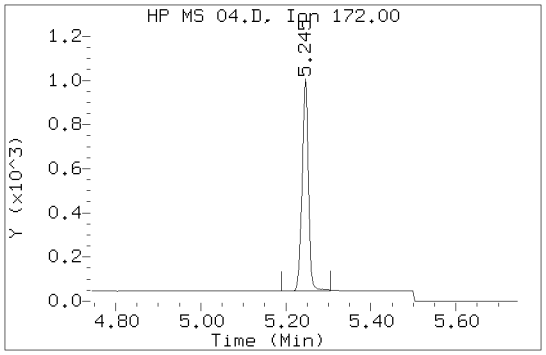
BEFORE

MASS
172
AREA
1093
HEIGHT
986
16-Jun-2023
11:24
ALSHS
Server



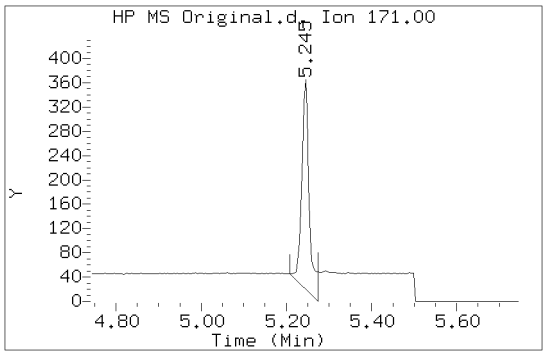

AFTER

MASS
172
AREA
1004
HEIGHT
960
29-Jun-2023
14:26
ALSHS
Ser



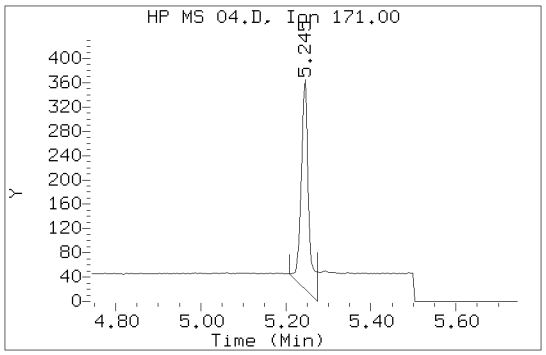

BEFORE

MASS
171
AREA
428
HEIGHT
345
16-Jun-2023
11:24
ALSHS
Server




AFTER

MASS
171
AREA
428
HEIGHT
345
29-Jun-2023
14:26
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Lab Smp Id: 14DXICAL-0.03 Client Smp ID: 14DXICAL-0.03
Inj Date : 16-JUN-2023 11:26
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:08 Cal File: 04.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.128 | 3.128 | (1.000) | 4348 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 4.220 | 4.220 | (1.000) | 14672 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.584 | 3.584 | (0.849) | 1234 | 0.03000 | 0.02782(QM) |
| * 86 Acenaphthene-d10 | 164 | 5.883 | 5.883 | (1.000) | 8616 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 5.245 | 5.245 | (0.891) | 2509 | 0.03000 | 0.02843(M) |
| * 126 Phenanthrene-d10 | 188 | 7.322 | 7.322 | (1.000) | 16998 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 10.023 | 10.023 | (1.000) | 11821 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.904 | 8.904 | (0.888) | 2416 | 0.03000 | 0.02800(M) |
| * 198 Perylene-d12 | 264 | 11.940 | 11.940 | (1.000) | 10677 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.467 | 1.467 | (0.469) | 426 | 0.03000 | 0.02909(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.

01196811

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D



Date : 16-JUN-2023 11:26

Client ID: 14DXICAL-0.03

Instrument: SV6.i

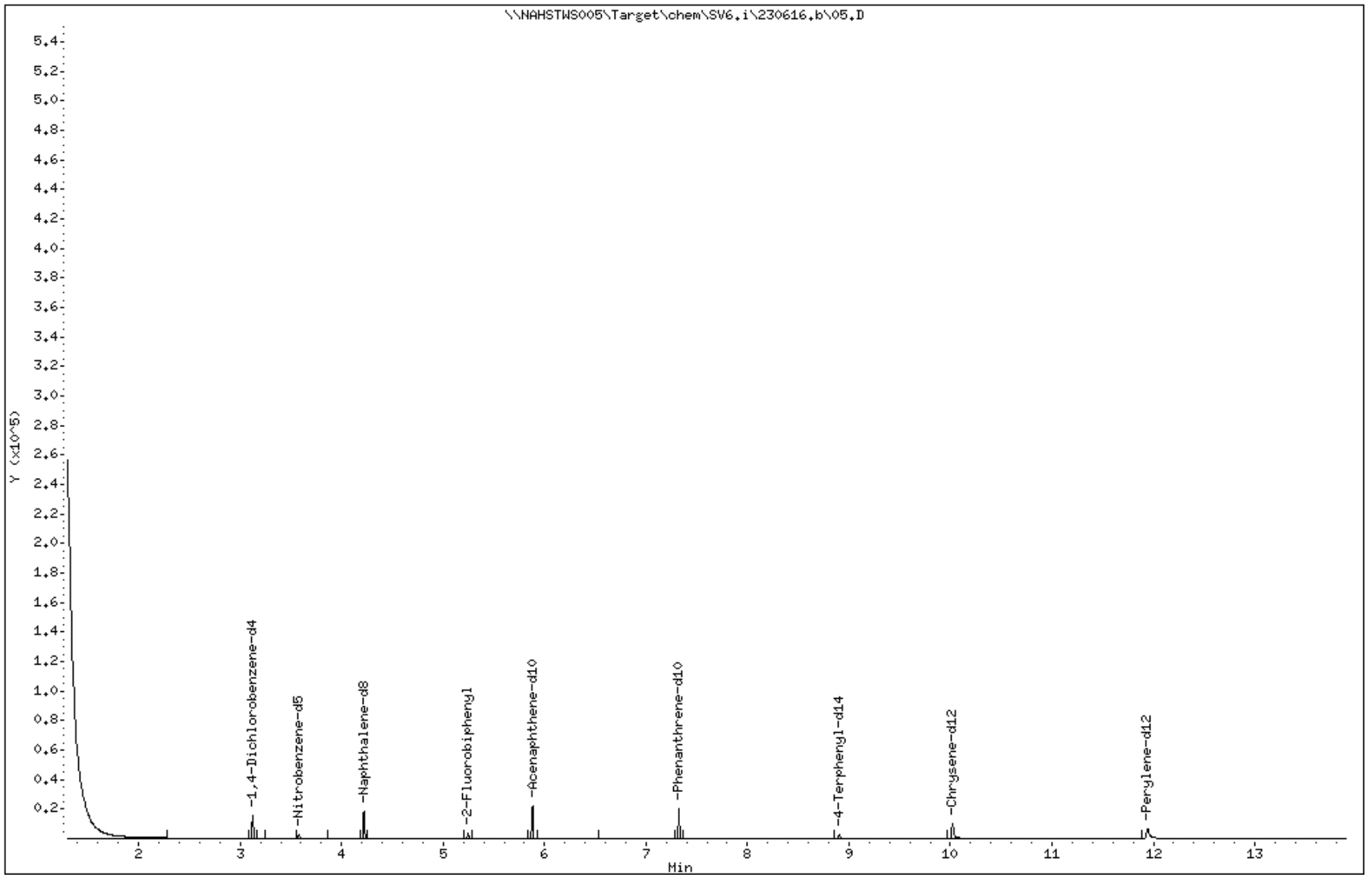
Sample Info: 14DXICAL-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



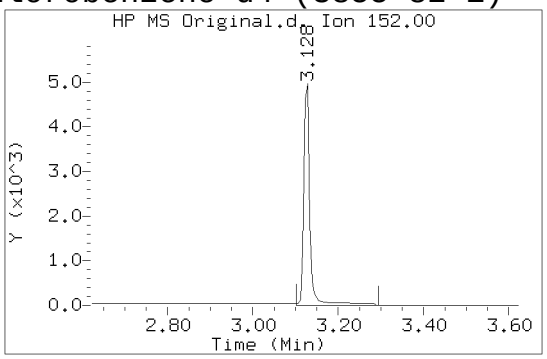
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

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

Reason Code:

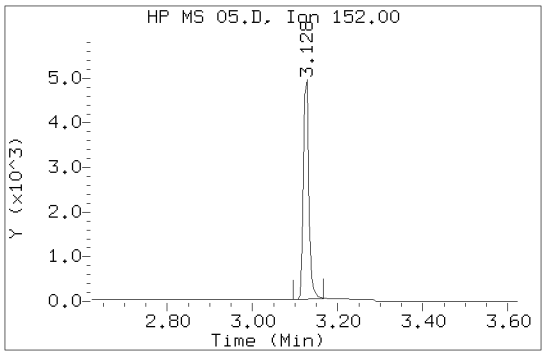
BEFORE

MASS
152
AREA
4935
HEIGHT
4966
16-Jun-2023
11:42
ALSHS
Server



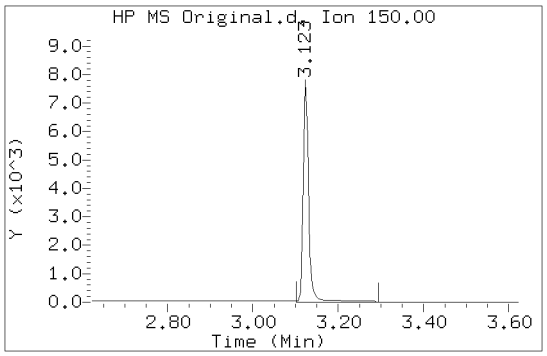

AFTER

MASS
152
AREA
4348
HEIGHT
4916
29-Jun-2023
14:26
ALSHS
Ser



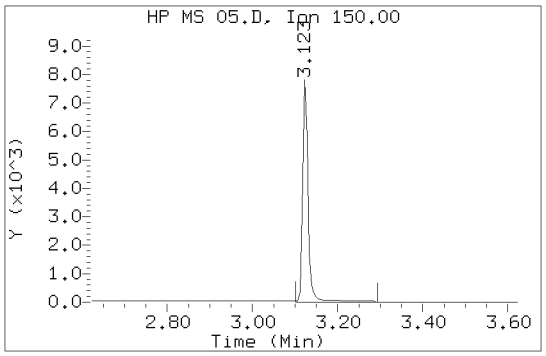

BEFORE

MASS
150
AREA
6954
HEIGHT
7812
16-Jun-2023
11:42
ALSHS
Server



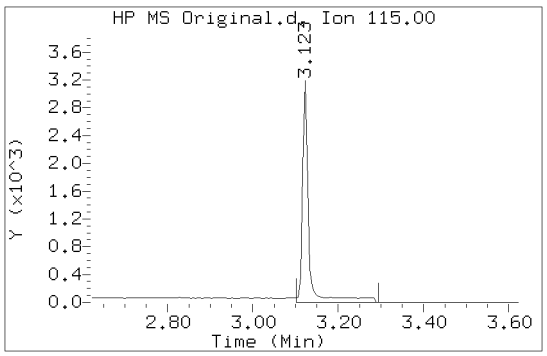

AFTER

MASS
150
AREA
6954
HEIGHT
7812
29-Jun-2023
14:26
ALSHS
Ser



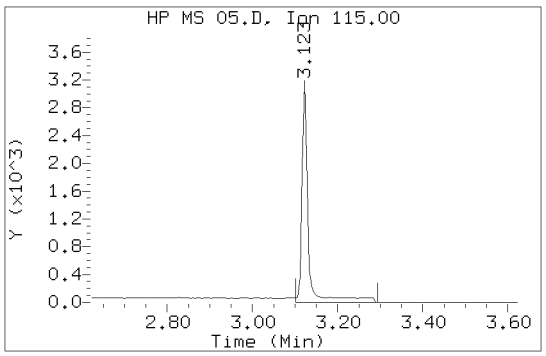

BEFORE

MASS
115
AREA
3189
HEIGHT
3190
16-Jun-2023
11:42
ALSHS
Server




AFTER

MASS
115
AREA
3189
HEIGHT
3190
29-Jun-2023
14:26
ALSHS
Ser

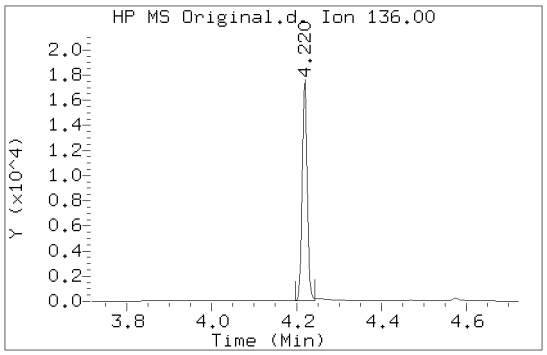



## Naphthalene-d8 (1146-65-2)

Reason Code:

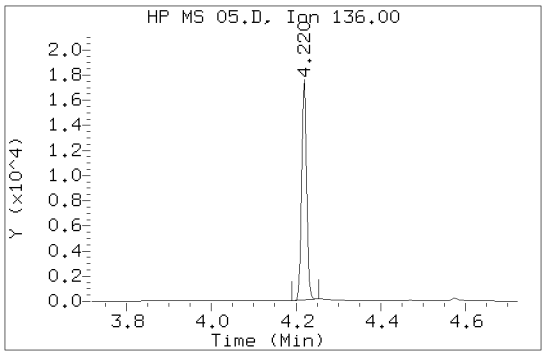
BEFORE

MASS
136
AREA
14851
HEIGHT
17567
16-Jun-2023
11:42
ALSHS
Server




AFTER

MASS
136
AREA
14672
HEIGHT
17505
29-Jun-2023
14:26
ALSHS
Ser



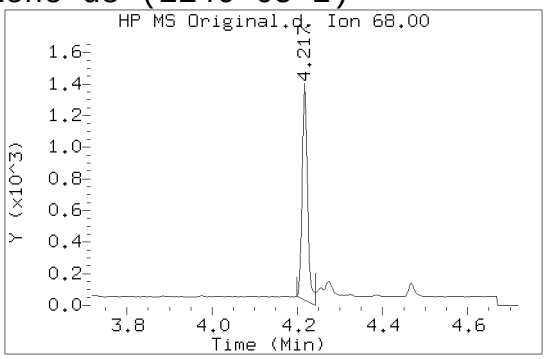
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

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

Reason Code:

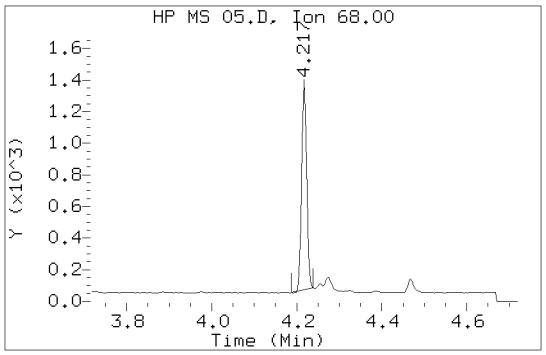
**BEFORE**

MASS
68
AREA
1196
HEIGHT
1368
16-Jun-2023
11:42
ALSHS
Server




**AFTER**

MASS
68
AREA
1062
HEIGHT
1328
29-Jun-2023
14:26
ALSHS
Ser

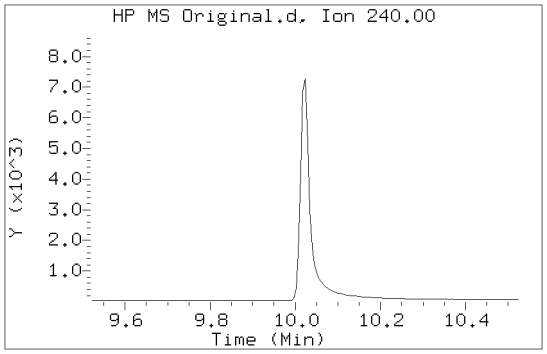



## Chrysene-d12 (1719-03-5)

Reason Code:

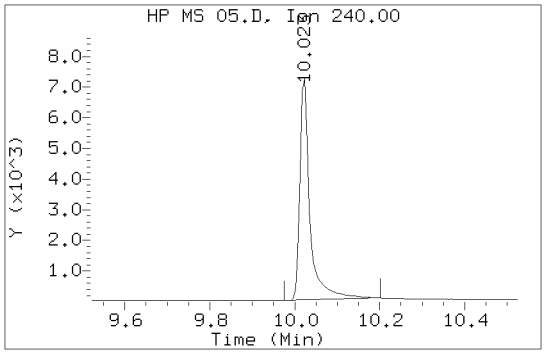
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



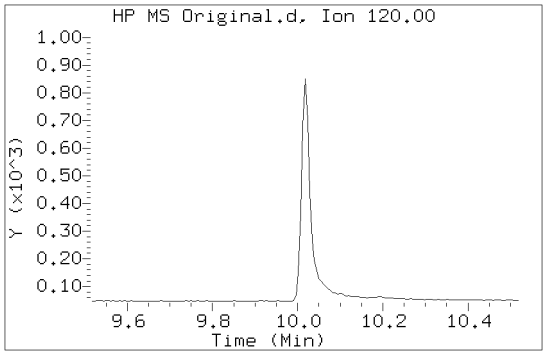

**AFTER**

MASS
240
AREA
11821
HEIGHT
7215
29-Jun-2023
14:26
ALSHS
Ser



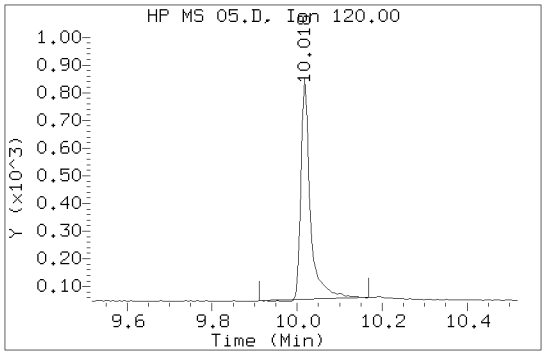

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



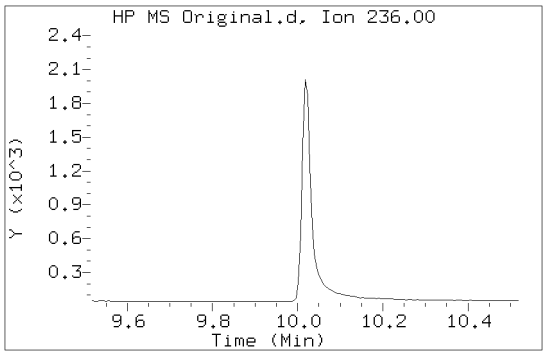

**AFTER**

MASS
120
AREA
1207
HEIGHT
796
29-Jun-2023
14:26
ALSHS
Ser



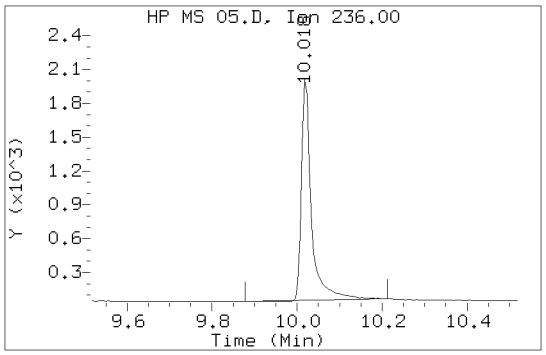

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server




**AFTER**

MASS
236
AREA
3185
HEIGHT
1956
29-Jun-2023
14:26
ALSHS
Ser



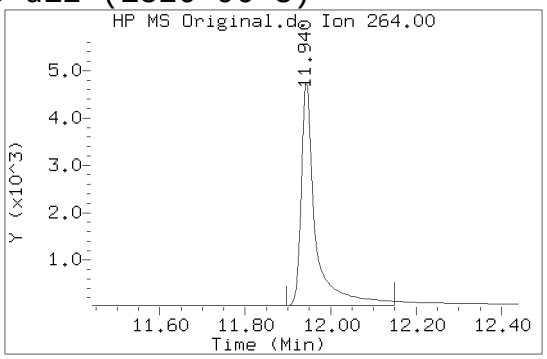
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Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

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

Reason Code:

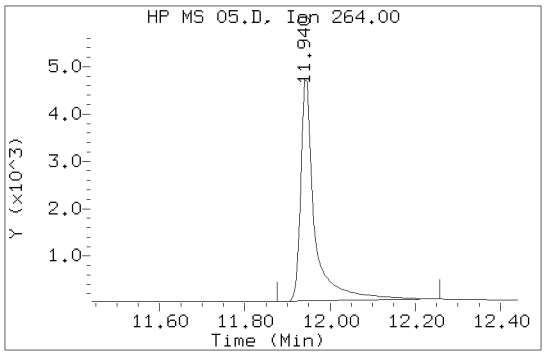
BEFORE

MASS
264
AREA
10829
HEIGHT
4681
16-Jun-2023
11:42
ALSHS
Server



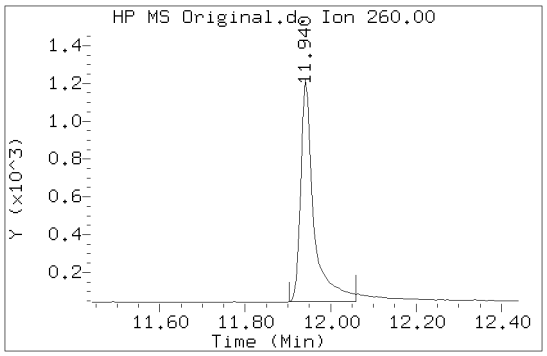

AFTER

MASS
264
AREA
10677
HEIGHT
4673
29-Jun-2023
14:26
ALSHS
Ser



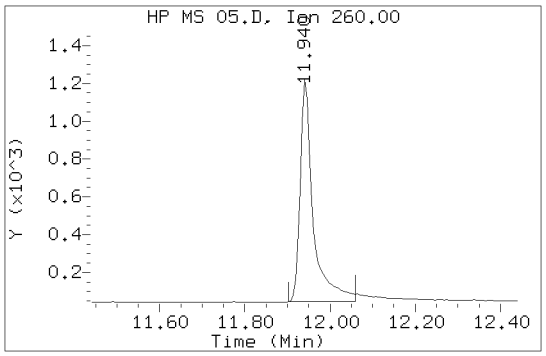

BEFORE

MASS
260
AREA
2488
HEIGHT
1174
16-Jun-2023
11:42
ALSHS
Server



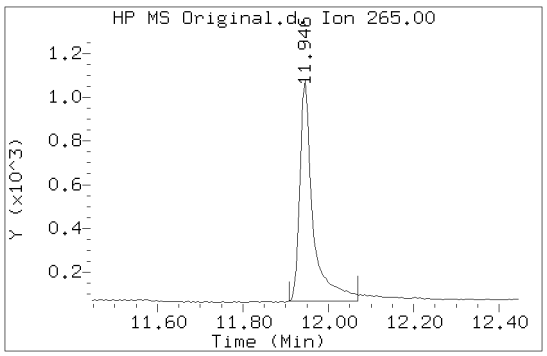

AFTER

MASS
260
AREA
2488
HEIGHT
1174
29-Jun-2023
14:26
ALSHS
Ser



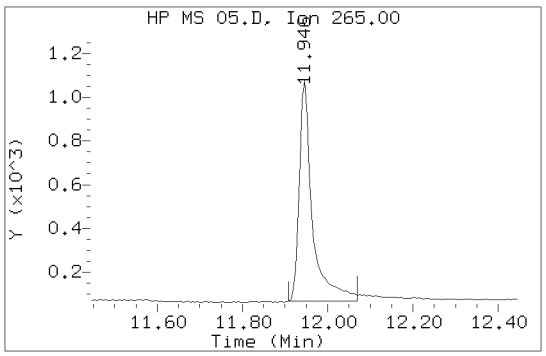

BEFORE

MASS
265
AREA
2154
HEIGHT
1009
16-Jun-2023
11:42
ALSHS
Server




AFTER

MASS
265
AREA
2154
HEIGHT
1009
29-Jun-2023
14:26
ALSHS
Ser

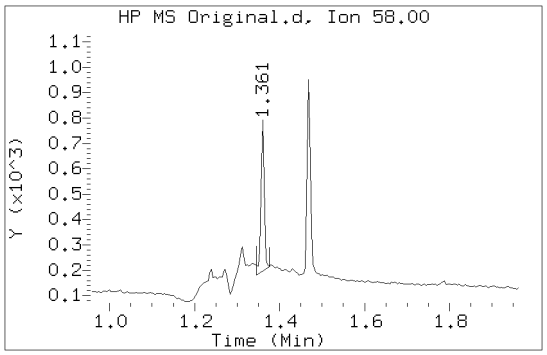



## 1,4-Dioxane ()

Reason Code:

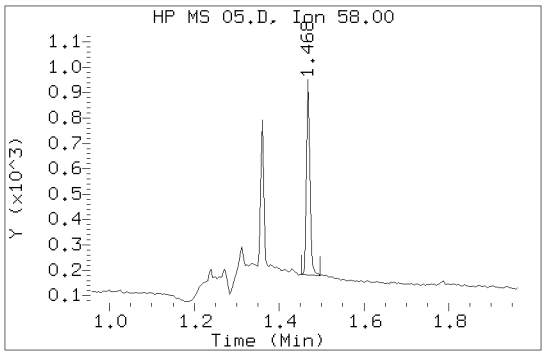
BEFORE

MASS
58
AREA
319
HEIGHT
594
16-Jun-2023
11:42
ALSHS
Server




AFTER

MASS
58
AREA
426
HEIGHT
768
29-Jun-2023
14:26
ALSHS
Ser



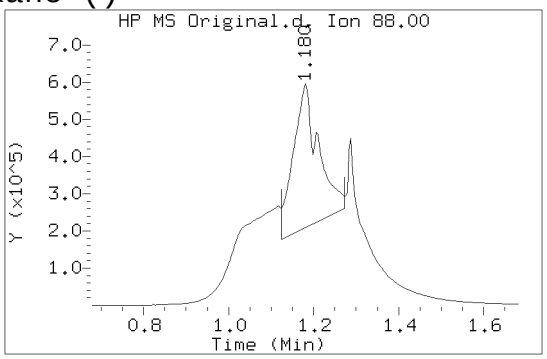
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

## 1,4-Dioxane ()

Reason Code:

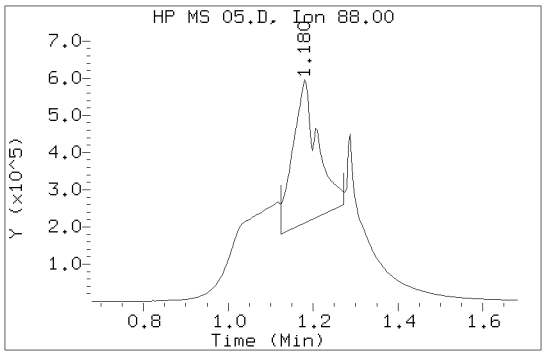
**BEFORE**

MASS
88
AREA
1599767
HEIGHT
386587
16-Jun-2023
11:42
ALSHS
Server




**AFTER**

MASS
88
AREA
1591467
HEIGHT
385442
29-Jun-2023
14:26
ALSHS
Ser

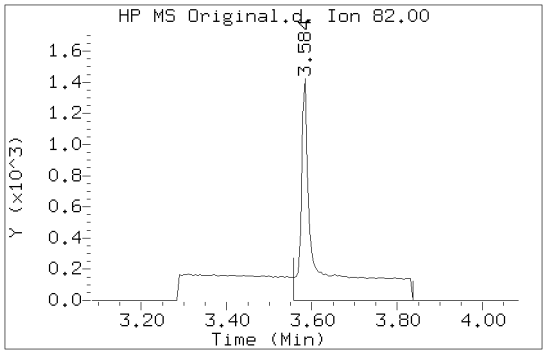



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

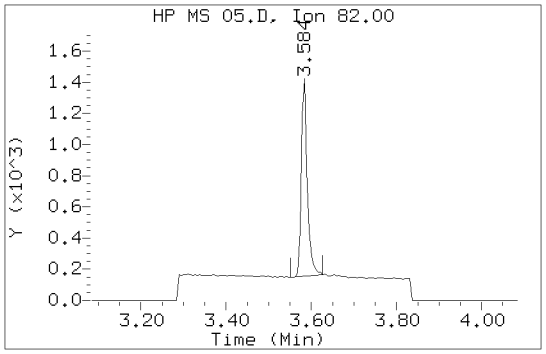
**BEFORE**

MASS
82
AREA
3739
HEIGHT
1423
16-Jun-2023
11:42
ALSHS
Server



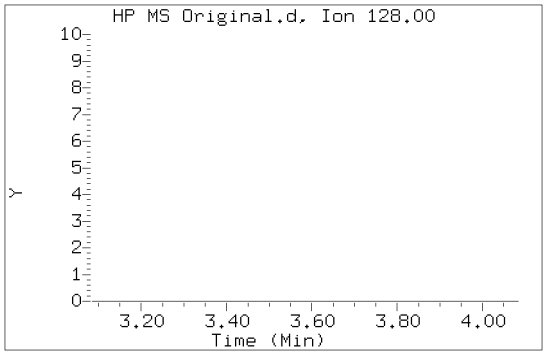

**AFTER**

MASS
82
AREA
1234
HEIGHT
1266
29-Jun-2023
14:26
ALSHS
Ser



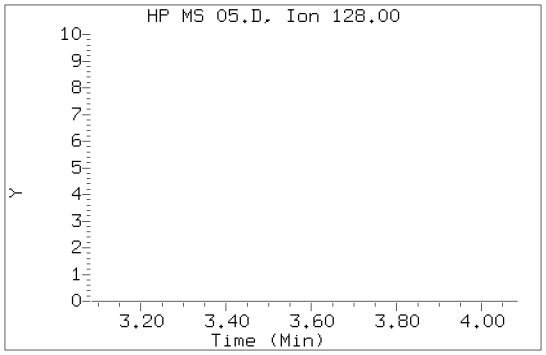

**BEFORE**

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



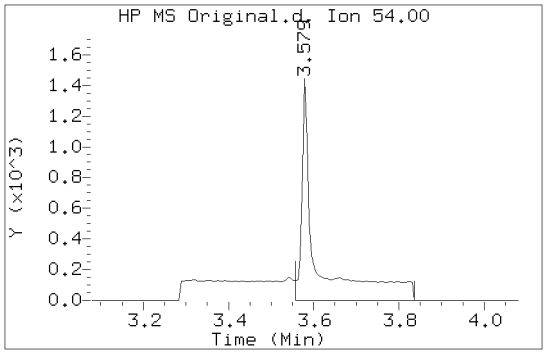

**AFTER**

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



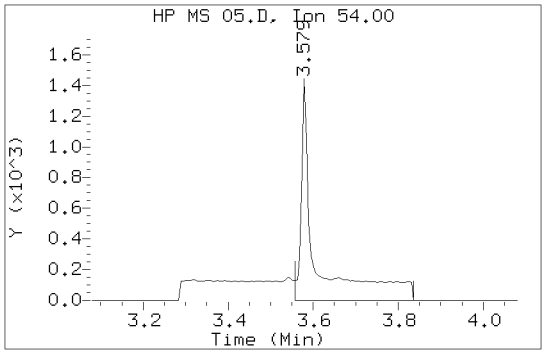

**BEFORE**

MASS
54
AREA
3364
HEIGHT
1444
16-Jun-2023
11:42
ALSHS
Server




**AFTER**

MASS
54
AREA
3364
HEIGHT
1444
29-Jun-2023
14:26
ALSHS
Ser



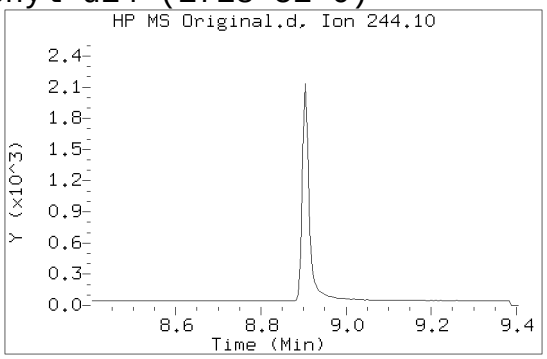
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

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

Reason Code:

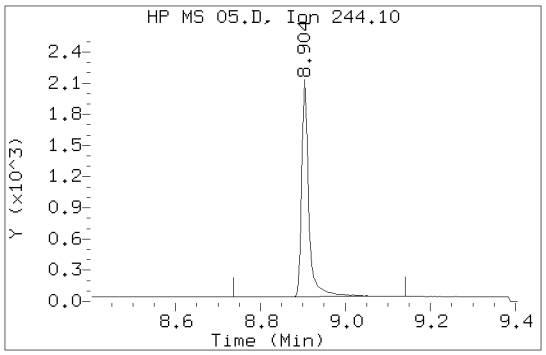
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



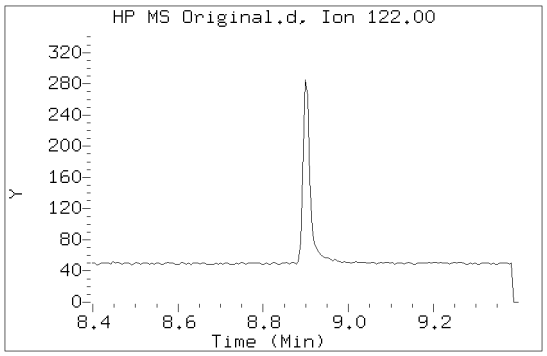

AFTER

MASS
244.1
AREA
2416
HEIGHT
2087
29-Jun-2023
14:26
ALSHS
Ser



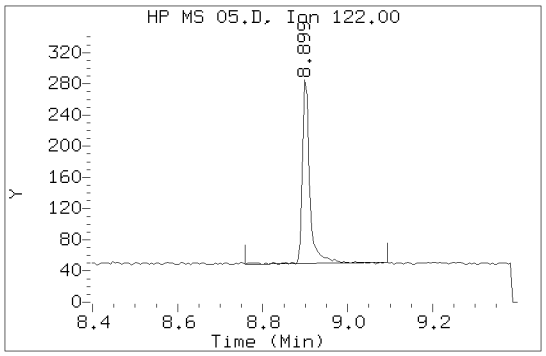

BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



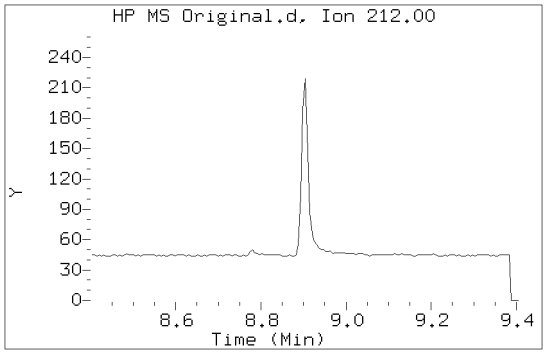

AFTER

MASS
122
AREA
278
HEIGHT
235
29-Jun-2023
14:26
ALSHS
Ser



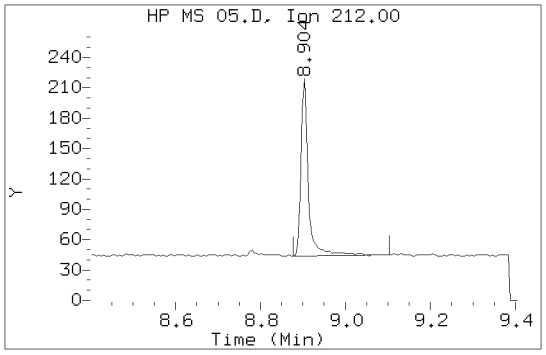

BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server




AFTER

MASS
212
AREA
205
HEIGHT
174
29-Jun-2023
14:26
ALSHS
Ser

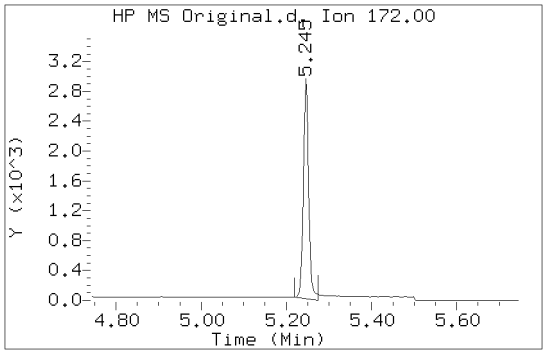



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

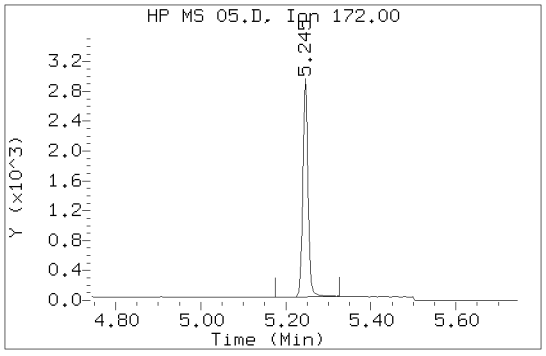
BEFORE

MASS
172
AREA
2588
HEIGHT
2943
16-Jun-2023
11:42
ALSHS
Server




AFTER

MASS
172
AREA
2509
HEIGHT
2918
29-Jun-2023
14:26
ALSHS
Ser



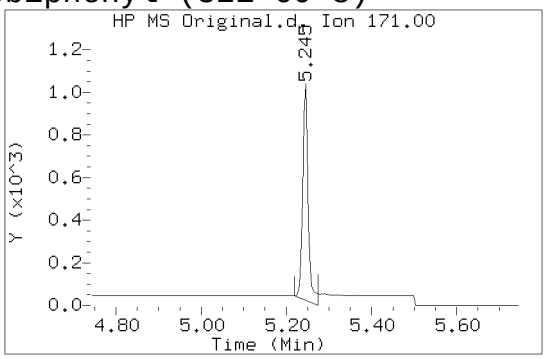
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

2-Fluorobiphenyl (321-60-8)

Reason Code:

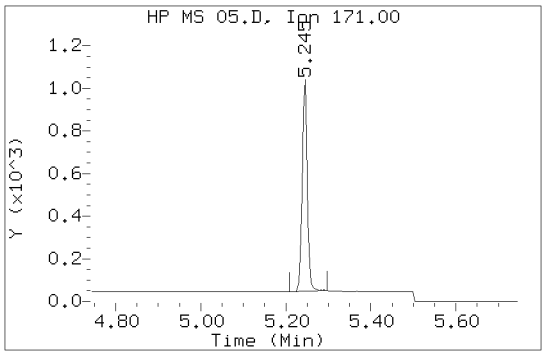
BEFORE

MASS
171
AREA
921
HEIGHT
1017
16-Jun-2023
11:42
ALSHS
Server




AFTER

MASS
171
AREA
834
HEIGHT
993
29-Jun-2023
14:26
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D Page 1
Report Date: 29-Jun-2023 14:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Lab Smp Id: 14DXICAL-0.05 Client Smp ID: 14DXICAL-0.05
Inj Date : 16-JUN-2023 11:44
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:26 Cal File: 05.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.128 | 3.128 | (1.000) | 5073 | 0.10000 | (a) |
| * 45 Naphthalene-d8 | 136 | 4.216 | 4.216 | (1.000) | 17044 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.584 | 3.584 | (0.850) | 2574 | 0.05000 | 0.04995(QM) |
| * 86 Acenaphthene-d10 | 164 | 5.883 | 5.883 | (1.000) | 10027 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 5.245 | 5.245 | (0.891) | 4907 | 0.05000 | 0.04778(M) |
| * 126 Phenanthrene-d10 | 188 | 7.322 | 7.322 | (1.000) | 19800 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 10.017 | 10.017 | (1.000) | 14524 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.904 | 8.904 | (0.889) | 4687 | 0.05000 | 0.04422(M) |
| * 198 Perylene-d12 | 264 | 11.940 | 11.940 | (1.000) | 12549 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.486 | 1.486 | (0.475) | 828 | 0.05000 | 0.04846(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.

01196819

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D



Date : 16-JUN-2023 11:44

Client ID: 14DXICAL-0.05

Instrument: SV6.i

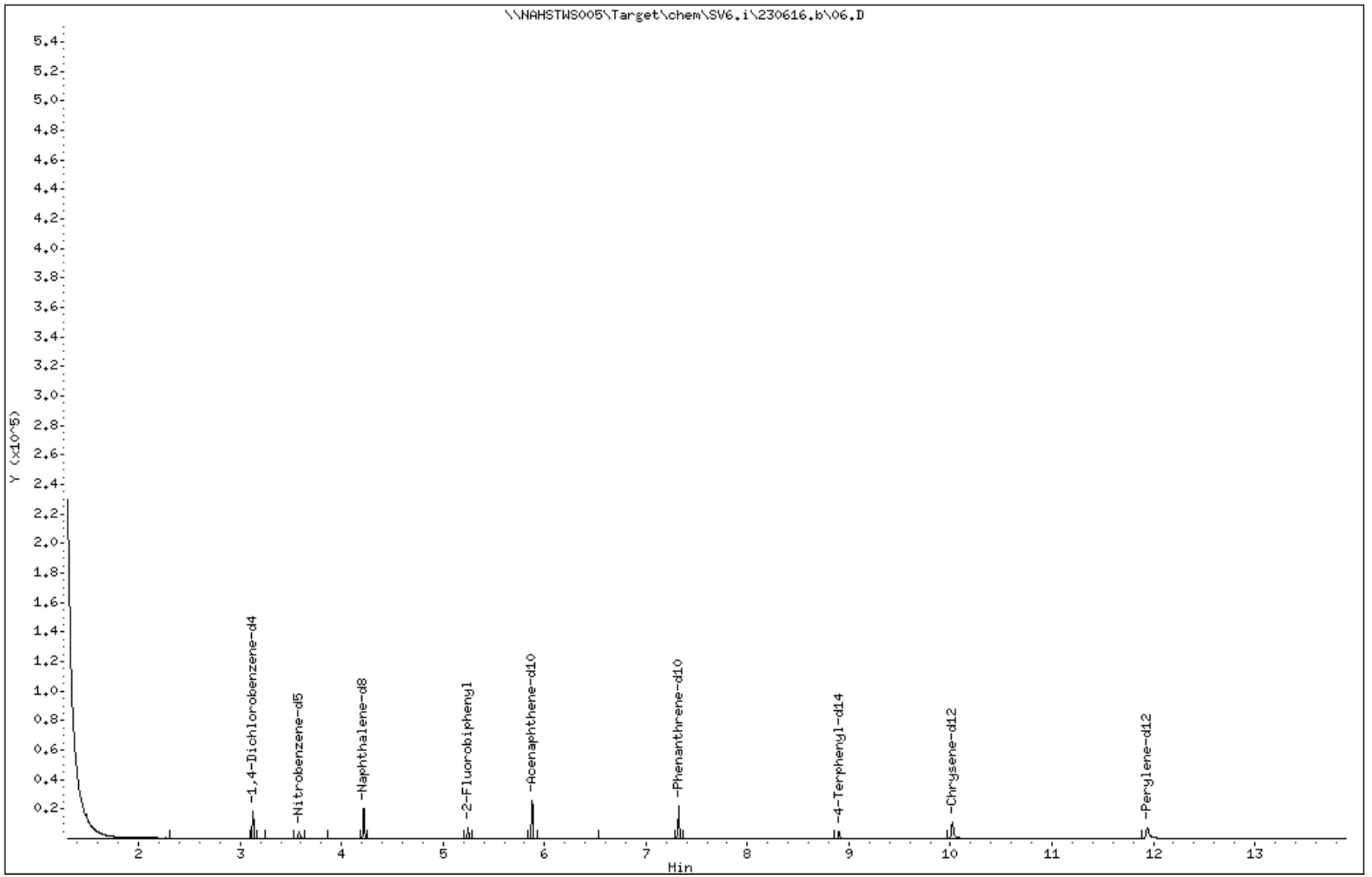
Sample Info: 14DXICAL-0.05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



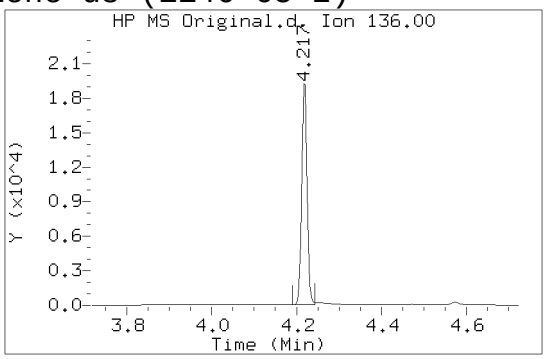
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

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

Reason Code:

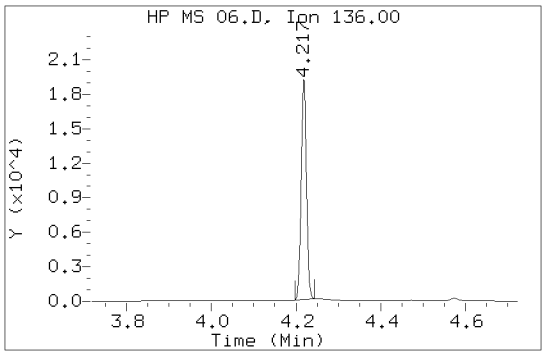
BEFORE

MASS
136
AREA
17378
HEIGHT
19211
16-Jun-2023
11:59
ALSHS
Server



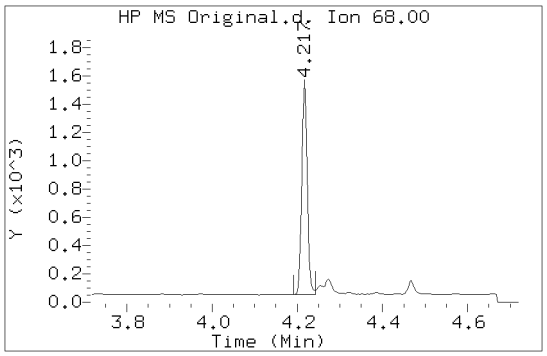

AFTER

MASS
136
AREA
17044
HEIGHT
19106
29-Jun-2023
14:26
ALSHS
Ser



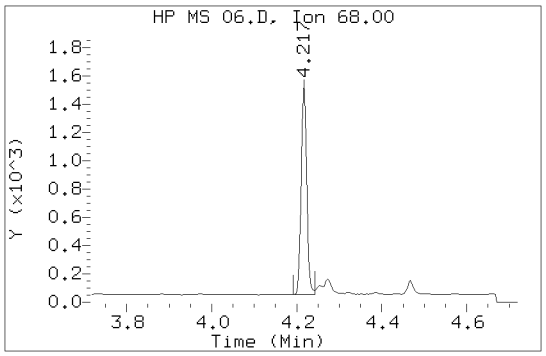

BEFORE

MASS
68
AREA
1330
HEIGHT
1515
16-Jun-2023
11:59
ALSHS
Server




AFTER

MASS
68
AREA
1330
HEIGHT
1515
29-Jun-2023
14:26
ALSHS
Ser

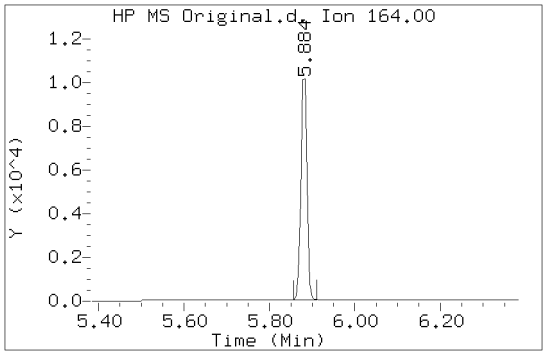



## Acenaphthene-d10 (15067-26-2)

Reason Code:

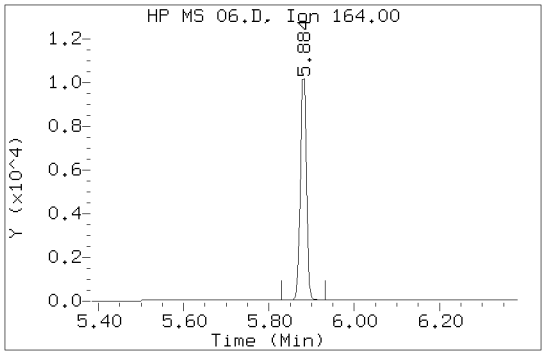
BEFORE

MASS
164
AREA
9969
HEIGHT
10109
16-Jun-2023
11:59
ALSHS
Server



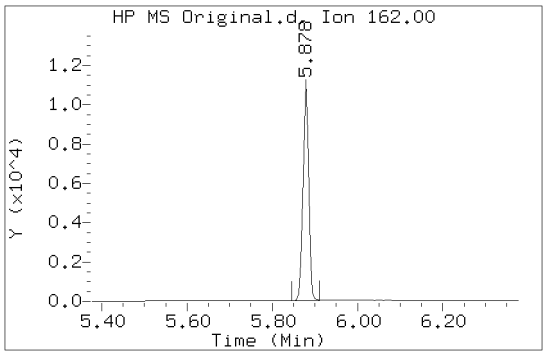

AFTER

MASS
164
AREA
10027
HEIGHT
10124
29-Jun-2023
14:26
ALSHS
Ser



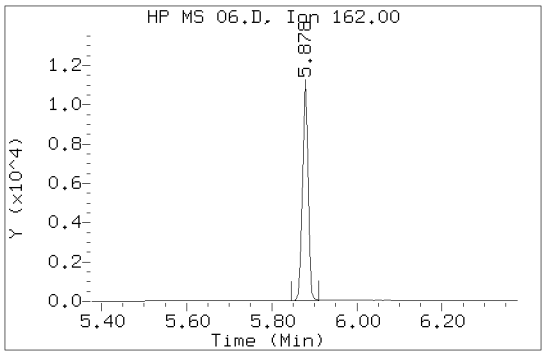

BEFORE

MASS
162
AREA
10122
HEIGHT
11230
16-Jun-2023
11:59
ALSHS
Server




AFTER

MASS
162
AREA
10122
HEIGHT
11230
29-Jun-2023
14:26
ALSHS
Ser



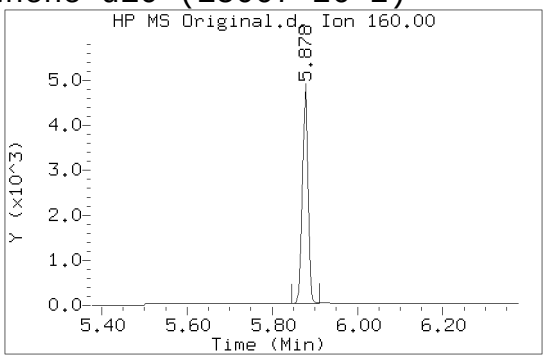
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Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

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

Reason Code:

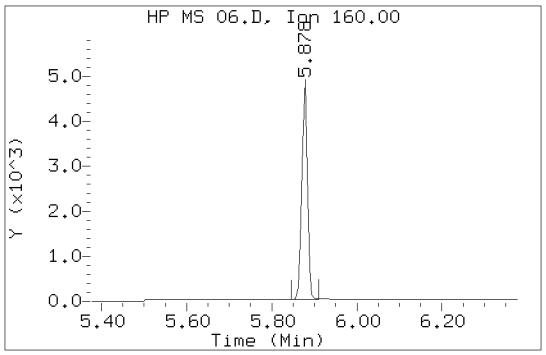
**BEFORE**

MASS
160
AREA
4359
HEIGHT
4881
16-Jun-2023
11:59
ALSHS
Server




**AFTER**

MASS
160
AREA
4359
HEIGHT
4881
29-Jun-2023
14:26
ALSHS
Ser

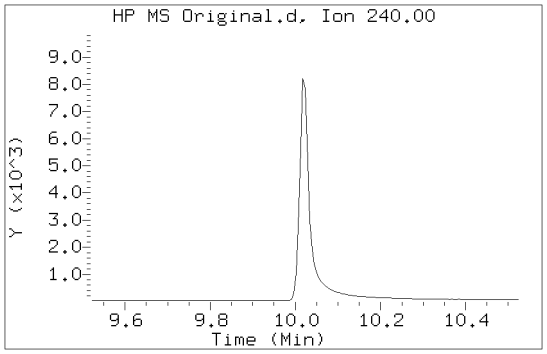



## Chrysene-d12 (1719-03-5)

Reason Code:

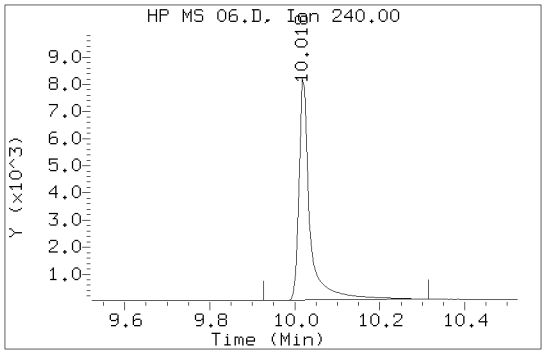
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



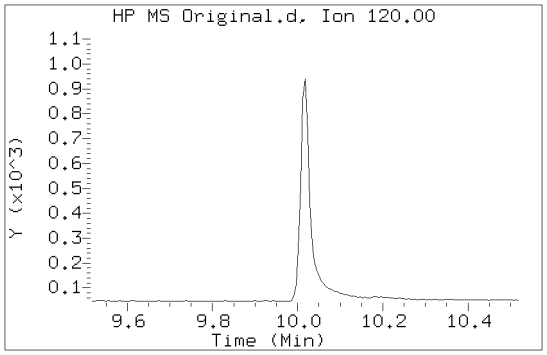

**AFTER**

MASS
240
AREA
14524
HEIGHT
8152
29-Jun-2023
14:26
ALSHS
Ser



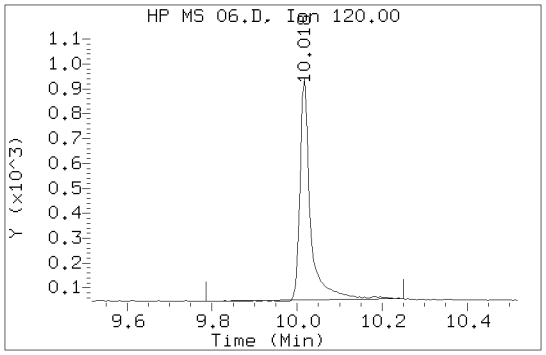

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



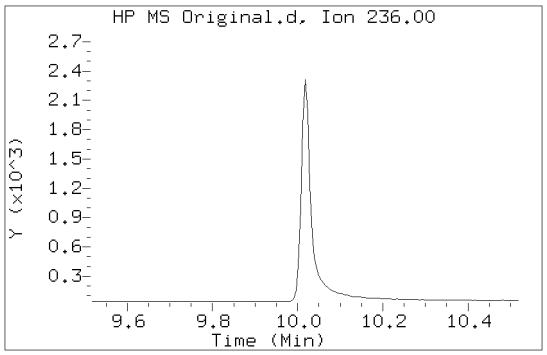

**AFTER**

MASS
120
AREA
1511
HEIGHT
888
29-Jun-2023
14:26
ALSHS
Ser



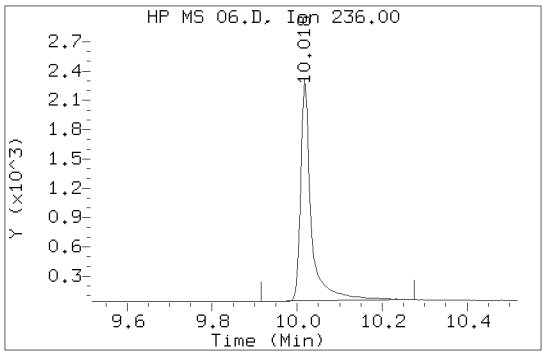

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server




**AFTER**

MASS
236
AREA
3903
HEIGHT
2262
29-Jun-2023
14:26
ALSHS
Ser



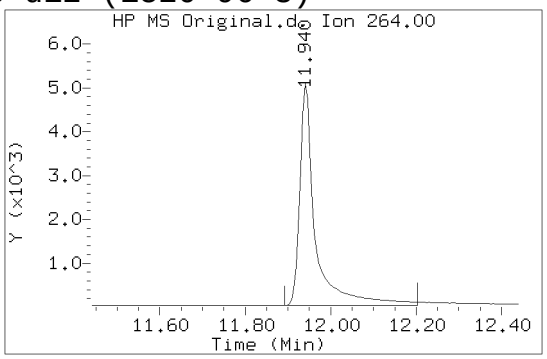
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

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

Reason Code:

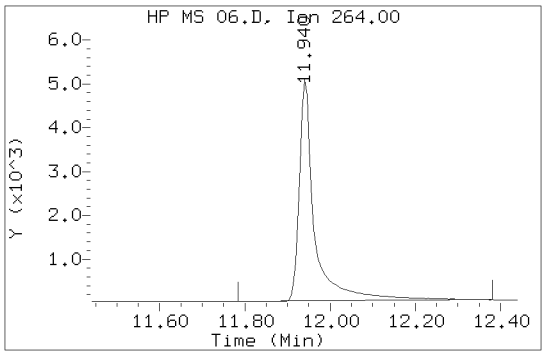
**BEFORE**

MASS
264
AREA
12686
HEIGHT
5050
16-Jun-2023
11:59
ALSHS
Server



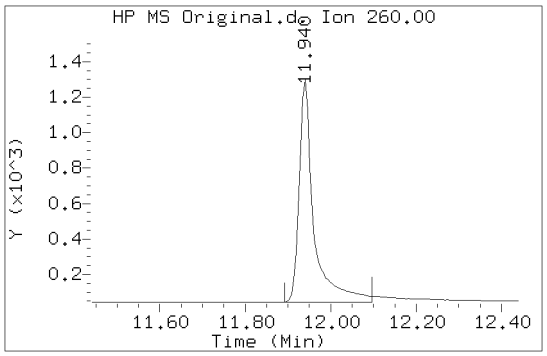

**AFTER**

MASS
264
AREA
12549
HEIGHT
5041
29-Jun-2023
14:26
ALSHS
Ser



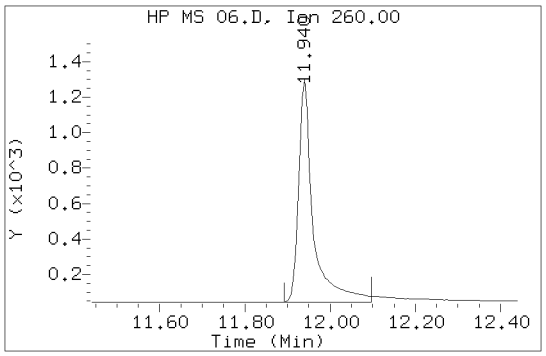

**BEFORE**

MASS
260
AREA
2978
HEIGHT
1253
16-Jun-2023
11:59
ALSHS
Server



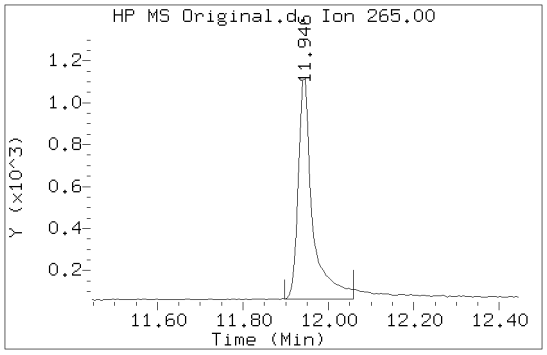

**AFTER**

MASS
260
AREA
2978
HEIGHT
1253
29-Jun-2023
14:26
ALSHS
Ser



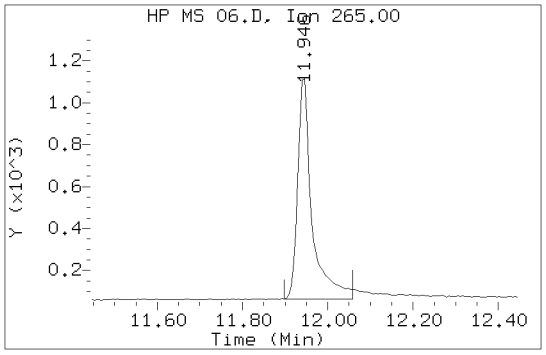

**BEFORE**

MASS
265
AREA
2473
HEIGHT
1053
16-Jun-2023
11:59
ALSHS
Server




**AFTER**

MASS
265
AREA
2473
HEIGHT
1053
29-Jun-2023
14:26
ALSHS
Ser

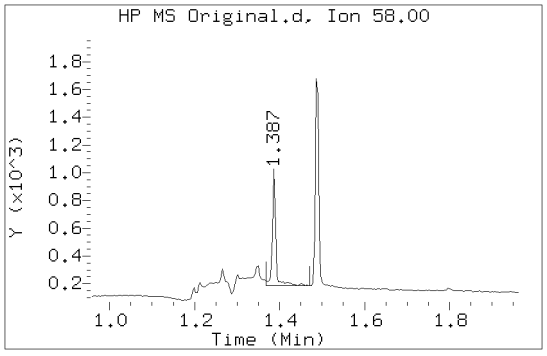



## 1,4-Dioxane ()

Reason Code:

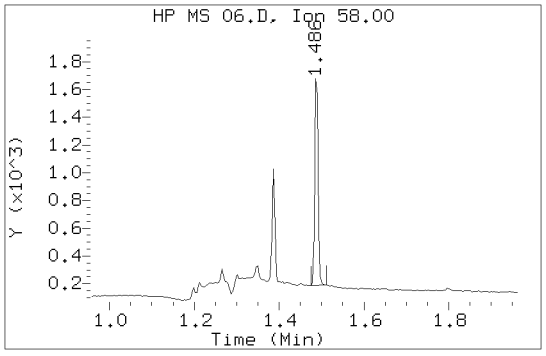
**BEFORE**

MASS
58
AREA
474
HEIGHT
839
16-Jun-2023
11:59
ALSHS
Server




**AFTER**

MASS
58
AREA
828
HEIGHT
1488
29-Jun-2023
14:26
ALSHS
Ser



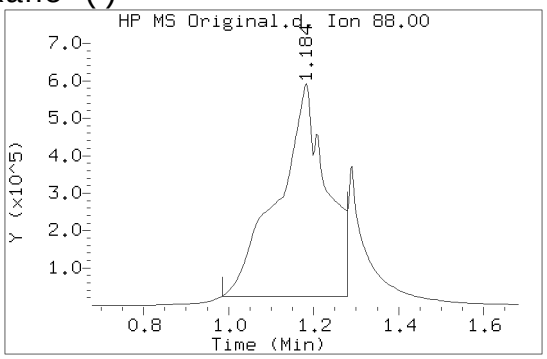
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

## 1,4-Dioxane ()

Reason Code:

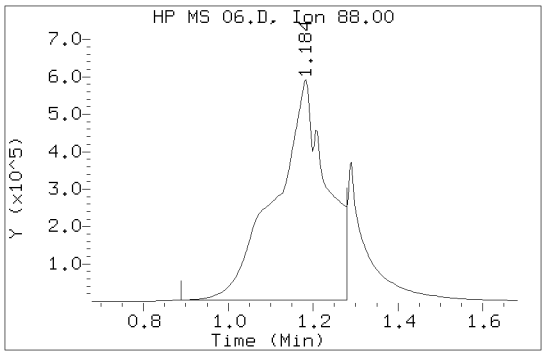
**BEFORE**

MASS
88
AREA
4490753
HEIGHT
567696
16-Jun-2023
11:59
ALSHS
Server




**AFTER**

MASS
88
AREA
4905096
HEIGHT
589066
29-Jun-2023
14:26
ALSHS
Ser

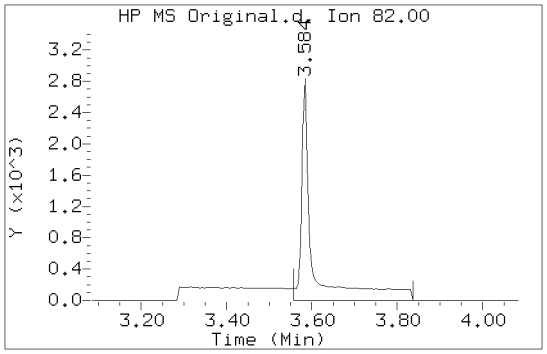



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

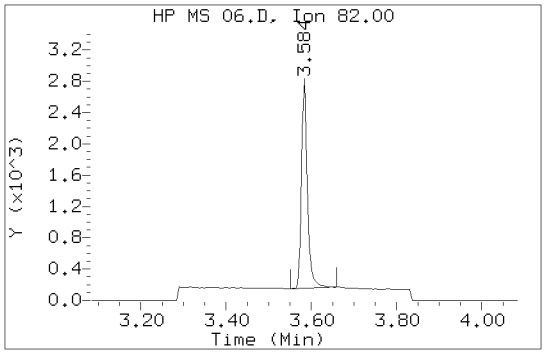
**BEFORE**

MASS
82
AREA
5121
HEIGHT
2833
16-Jun-2023
11:59
ALSHS
Server



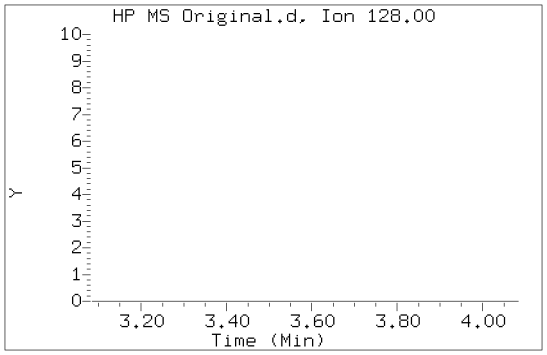

**AFTER**

MASS
82
AREA
2574
HEIGHT
2676
29-Jun-2023
14:26
ALSHS
Ser



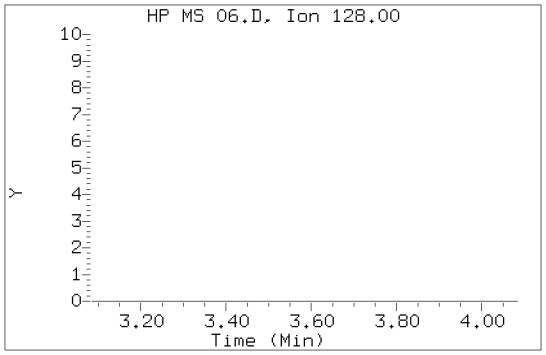

**BEFORE**

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



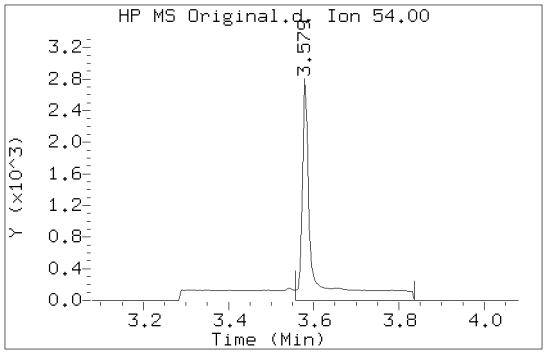

**AFTER**

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



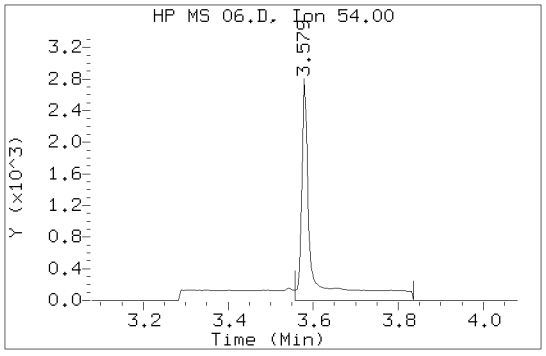

**BEFORE**

MASS
54
AREA
4709
HEIGHT
2805
16-Jun-2023
11:59
ALSHS
Server




**AFTER**

MASS
54
AREA
4709
HEIGHT
2805
29-Jun-2023
14:26
ALSHS
Ser



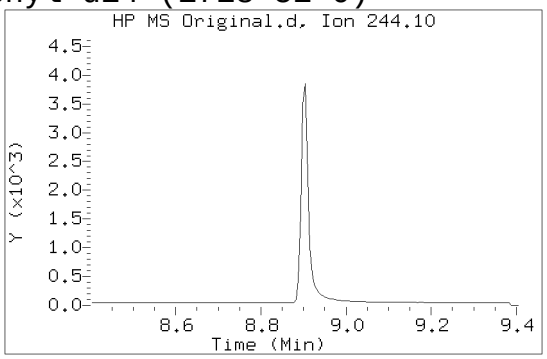
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

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

Reason Code:

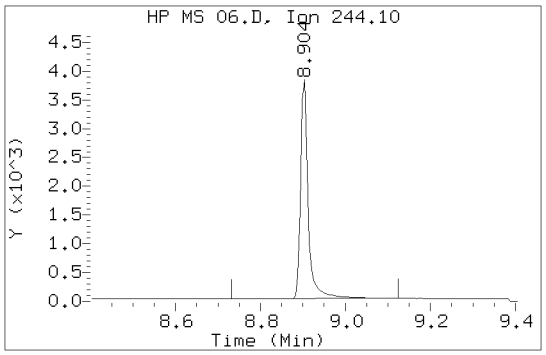
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



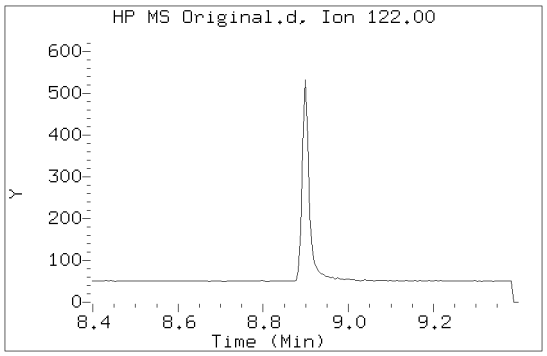

AFTER

MASS
244.1
AREA
4687
HEIGHT
3802
29-Jun-2023
14:26
ALSHS
Ser



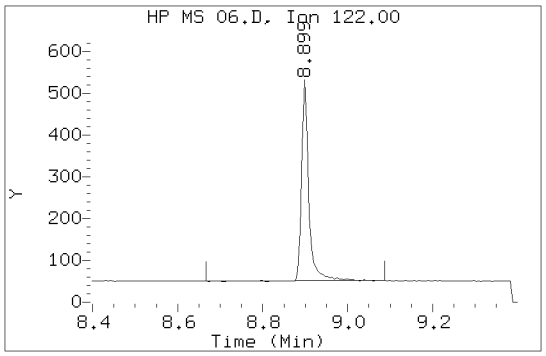

BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



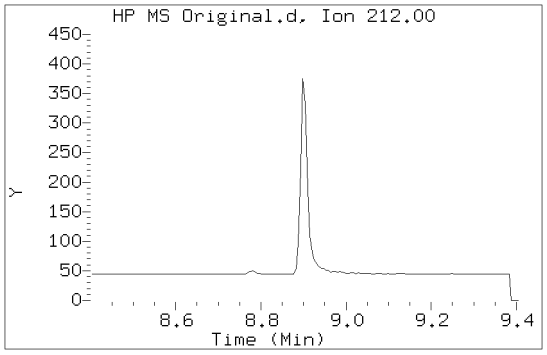

AFTER

MASS
122
AREA
540
HEIGHT
480
29-Jun-2023
14:26
ALSHS
Ser



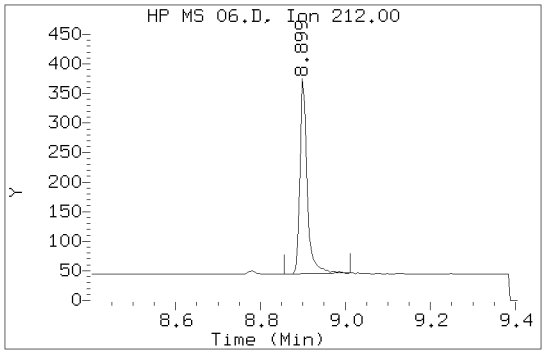

BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server




AFTER

MASS
212
AREA
383
HEIGHT
330
29-Jun-2023
14:26
ALSHS
Ser

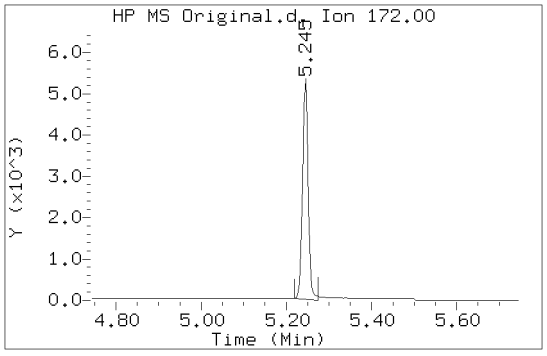



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

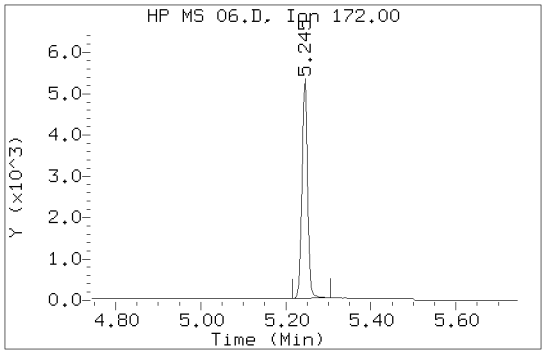
BEFORE

MASS
172
AREA
4989
HEIGHT
5338
16-Jun-2023
11:59
ALSHS
Server




AFTER

MASS
172
AREA
4907
HEIGHT
5312
29-Jun-2023
14:26
ALSHS
Ser



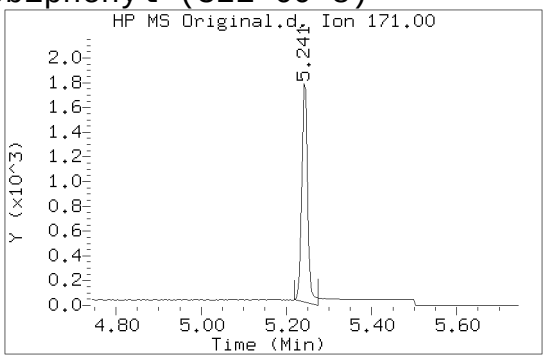
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

2-Fluorobiphenyl (321-60-8)

Reason Code:

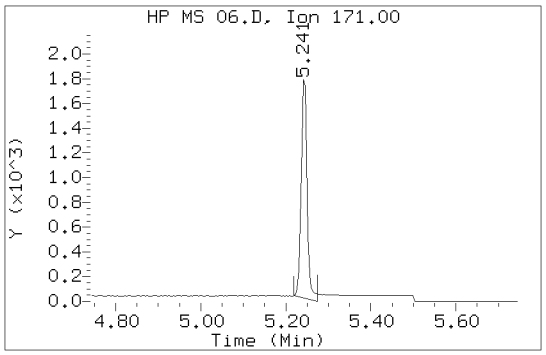
BEFORE

MASS
171
AREA
1727
HEIGHT
1764
16-Jun-2023
11:59
ALSHS
Server




AFTER

MASS
171
AREA
1727
HEIGHT
1764
29-Jun-2023
14:26
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Lab Smp Id: 14DXICAL-0.08 Client Smp ID: 14DXICAL-0.08
Inj Date : 16-JUN-2023 12:02
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:44 Cal File: 06.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.128 | 3.128 | (1.000) | 4590 | 0.10000 | (a) |
| * 45 Naphthalene-d8 | 136 | 4.220 | 4.220 | (1.000) | 15619 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.584 | 3.584 | (0.849) | 4012 | 0.08000 | 0.08496(M) |
| * 86 Acenaphthene-d10 | 164 | 5.883 | 5.883 | (1.000) | 9075 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 5.245 | 5.245 | (0.891) | 7759 | 0.08000 | 0.08348 |
| * 126 Phenanthrene-d10 | 188 | 7.322 | 7.322 | (1.000) | 18261 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 10.017 | 10.017 | (1.000) | 12097 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.904 | 8.904 | (0.889) | 7185 | 0.08000 | 0.08138(M) |
| * 198 Perylene-d12 | 264 | 11.940 | 11.940 | (1.000) | 10759 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.482 | 1.482 | (0.474) | 1283 | 0.08000 | 0.08298(QH) |

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.

01196827

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D



Date : 16-JUN-2023 12:02

Client ID: 14DXICAL-0.08

Instrument: SV6.i

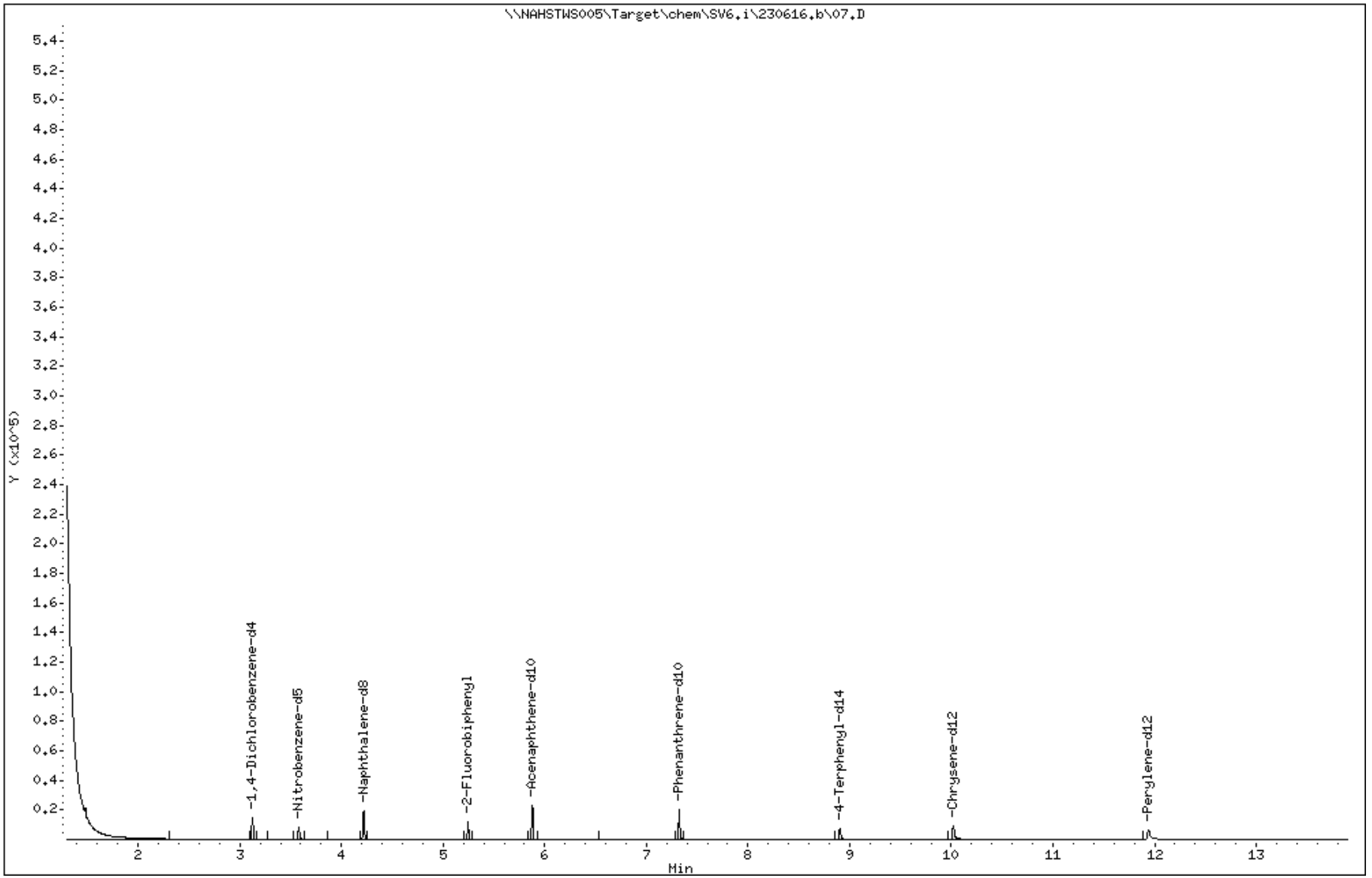
Sample Info: 14DXICAL-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



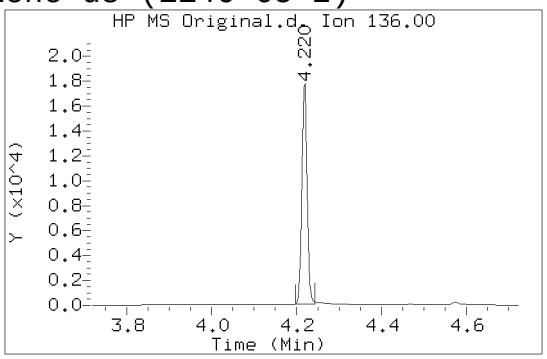
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

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

Reason Code:

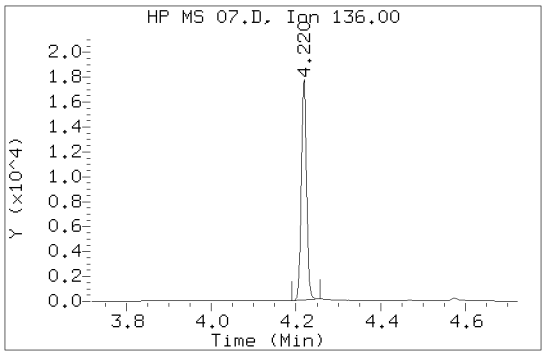
**BEFORE**

MASS
136
AREA
15744
HEIGHT
17718
16-Jun-2023
12:18
ALSHS
Server



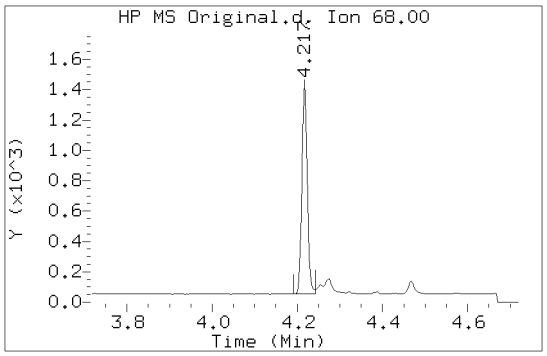

**AFTER**

MASS
136
AREA
15619
HEIGHT
17670
29-Jun-2023
14:26
ALSHS
Ser



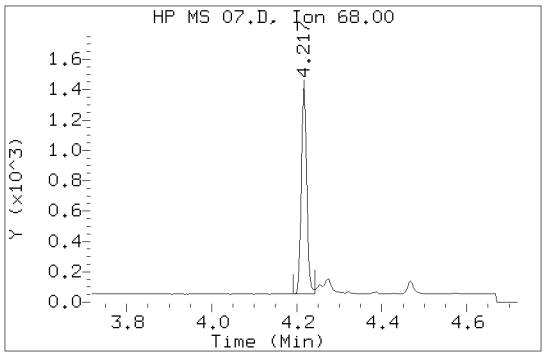

**BEFORE**

MASS
68
AREA
1209
HEIGHT
1411
16-Jun-2023
12:18
ALSHS
Server




**AFTER**

MASS
68
AREA
1209
HEIGHT
1411
29-Jun-2023
14:26
ALSHS
Ser

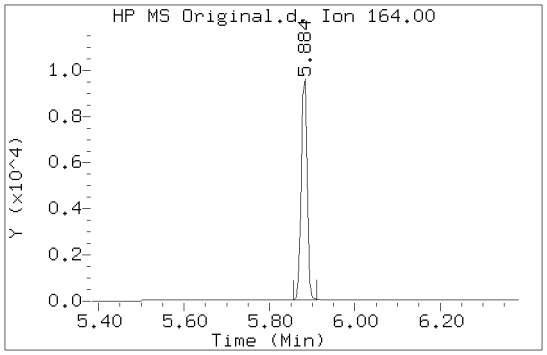



## Acenaphthene-d10 (15067-26-2)

Reason Code:

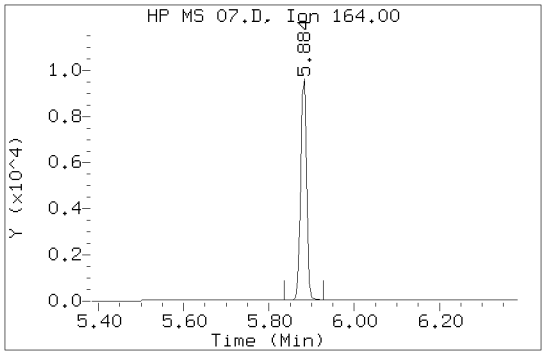
**BEFORE**

MASS
164
AREA
9060
HEIGHT
9568
16-Jun-2023
12:18
ALSHS
Server



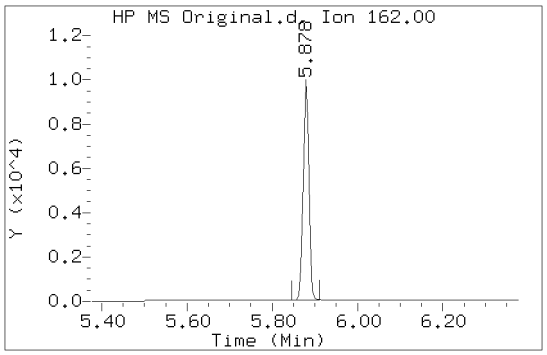

**AFTER**

MASS
164
AREA
9075
HEIGHT
9571
29-Jun-2023
14:26
ALSHS
Ser



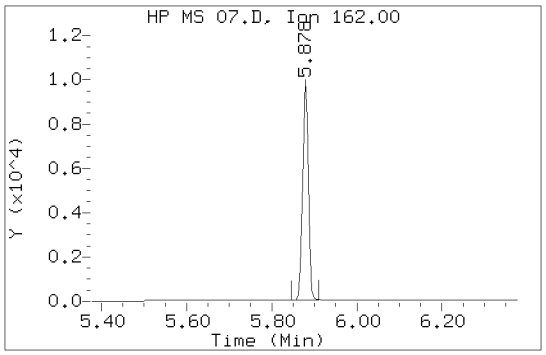

**BEFORE**

MASS
162
AREA
9173
HEIGHT
9961
16-Jun-2023
12:18
ALSHS
Server




**AFTER**

MASS
162
AREA
9173
HEIGHT
9961
29-Jun-2023
14:26
ALSHS
Ser



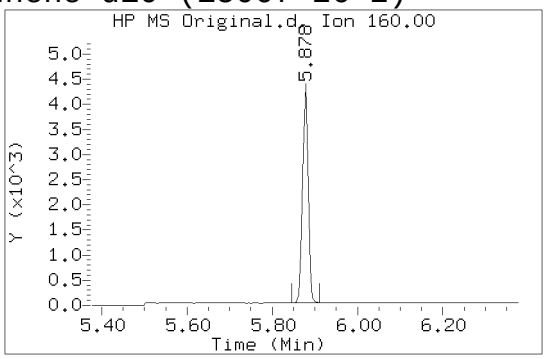
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

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

Reason Code:

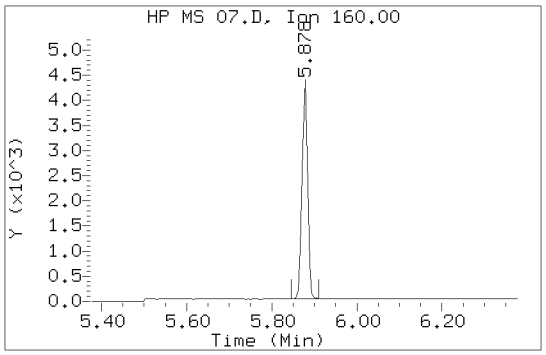
**BEFORE**

MASS
160
AREA
3928
HEIGHT
4365
16-Jun-2023
12:18
ALSHS
Server




**AFTER**

MASS
160
AREA
3928
HEIGHT
4365
29-Jun-2023
14:26
ALSHS
Ser

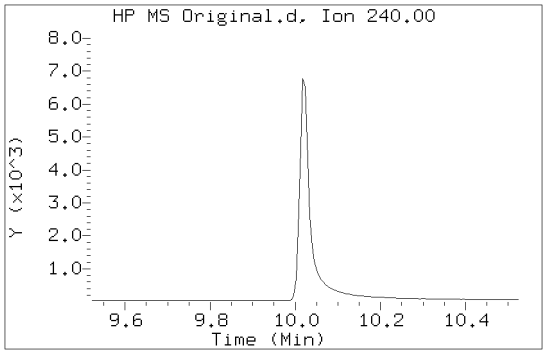



## Chrysene-d12 (1719-03-5)

Reason Code:

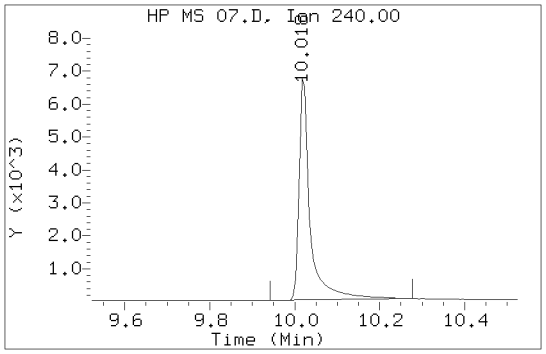
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



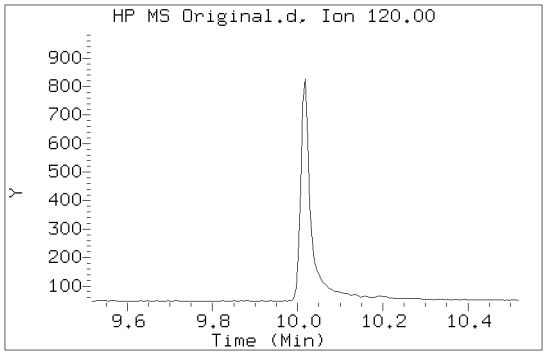

**AFTER**

MASS
240
AREA
12097
HEIGHT
6713
29-Jun-2023
14:26
ALSHS
Ser



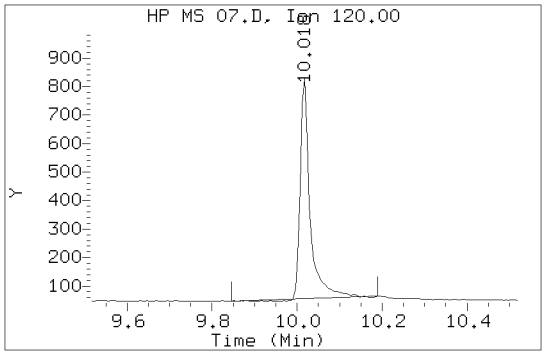

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



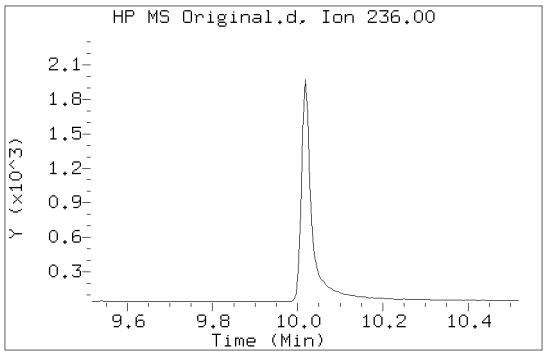

**AFTER**

MASS
120
AREA
1207
HEIGHT
771
29-Jun-2023
14:26
ALSHS
Ser



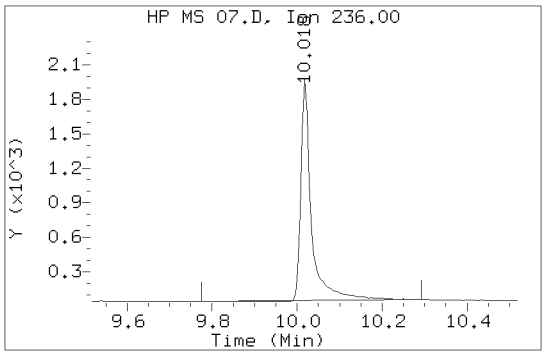

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server




**AFTER**

MASS
236
AREA
3279
HEIGHT
1919
29-Jun-2023
14:26
ALSHS
Ser



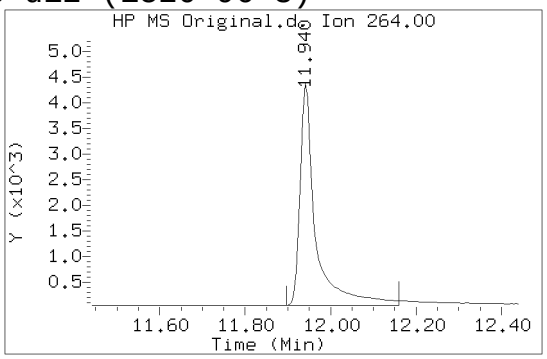
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

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

Reason Code:

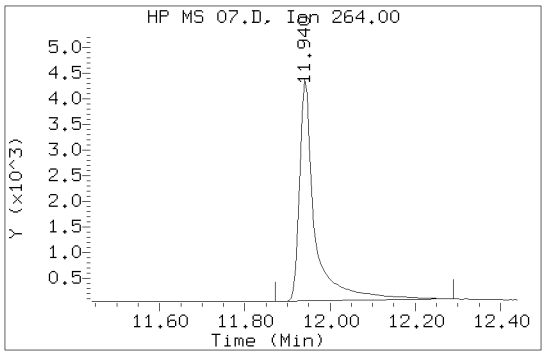
**BEFORE**

MASS
264
AREA
10879
HEIGHT
4324
16-Jun-2023
12:18
ALSHS
Server



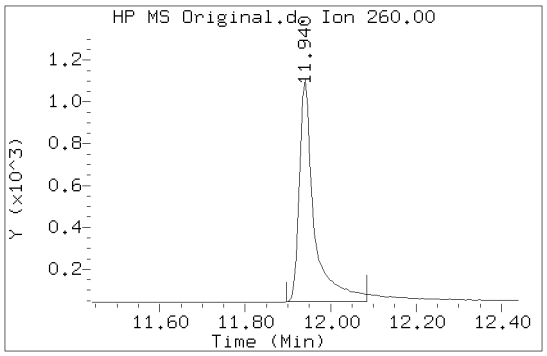

**AFTER**

MASS
264
AREA
10759
HEIGHT
4317
29-Jun-2023
14:26
ALSHS
Ser



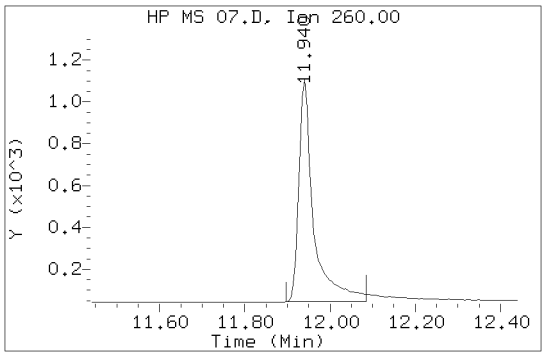

**BEFORE**

MASS
260
AREA
2559
HEIGHT
1060
16-Jun-2023
12:18
ALSHS
Server



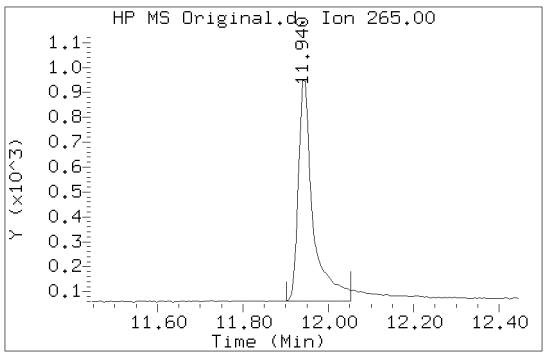

**AFTER**

MASS
260
AREA
2559
HEIGHT
1060
29-Jun-2023
14:26
ALSHS
Ser



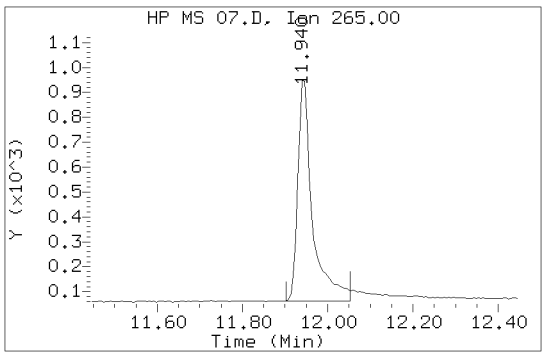

**BEFORE**

MASS
265
AREA
2115
HEIGHT
884
16-Jun-2023
12:18
ALSHS
Server




**AFTER**

MASS
265
AREA
2115
HEIGHT
884
29-Jun-2023
14:26
ALSHS
Ser

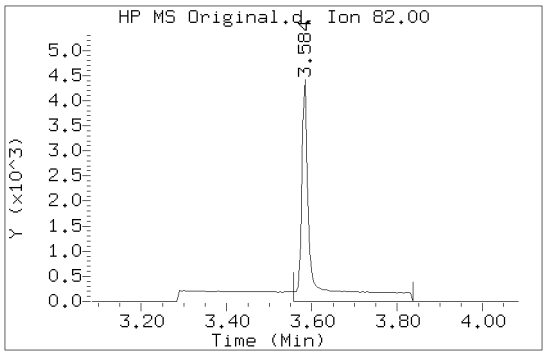



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

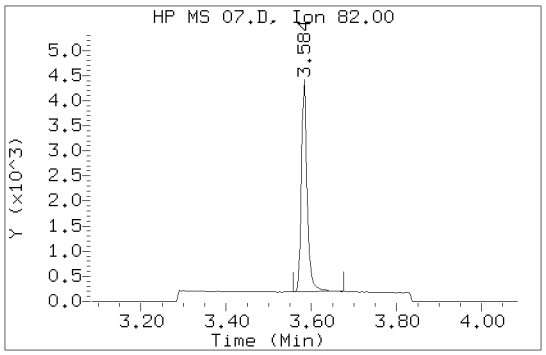
**BEFORE**

MASS
82
AREA
7140
HEIGHT
4418
16-Jun-2023
12:18
ALSHS
Server




**AFTER**

MASS
82
AREA
4012
HEIGHT
4226
29-Jun-2023
14:26
ALSHS
Ser



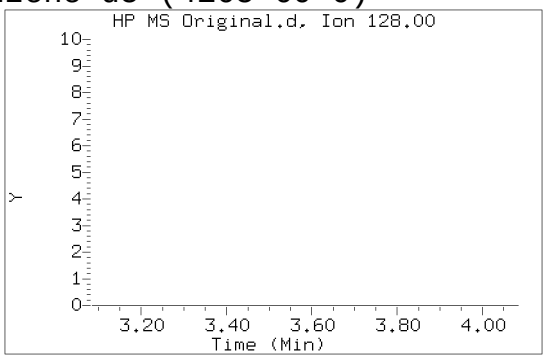
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

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

Reason Code:

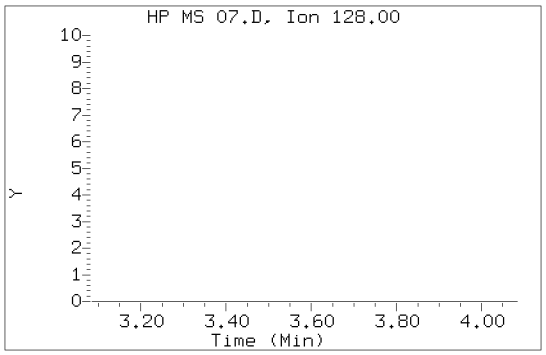
**BEFORE**

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



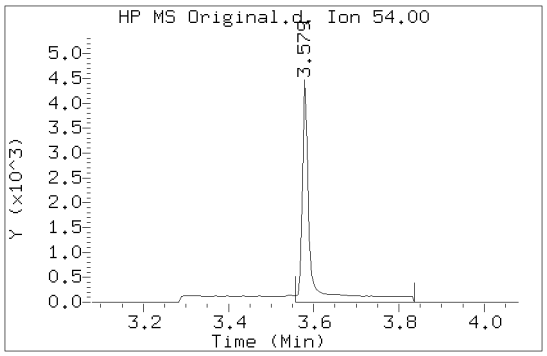

**AFTER**

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



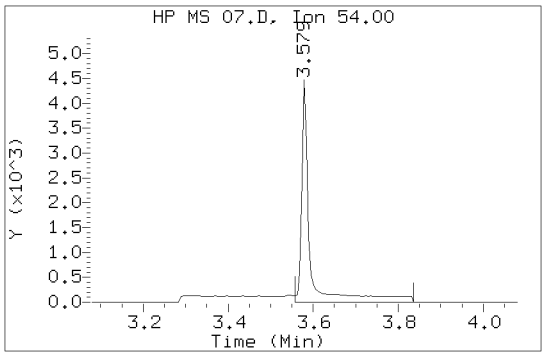

**BEFORE**

MASS
54
AREA
6137
HEIGHT
4470
16-Jun-2023
12:18
ALSHS
Server




**AFTER**

MASS
54
AREA
6137
HEIGHT
4470
29-Jun-2023
14:26
ALSHS
Ser

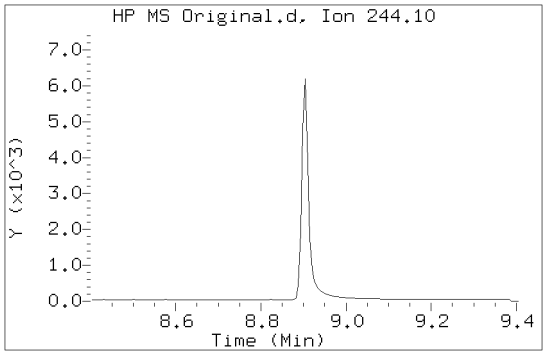



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

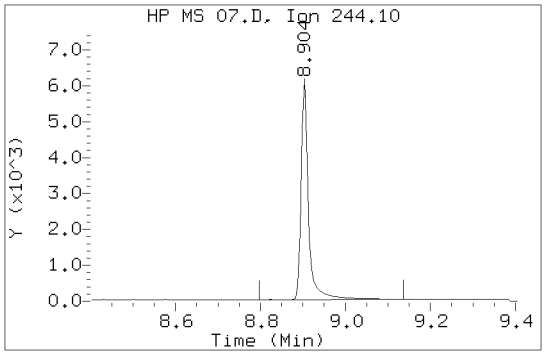
**BEFORE**

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



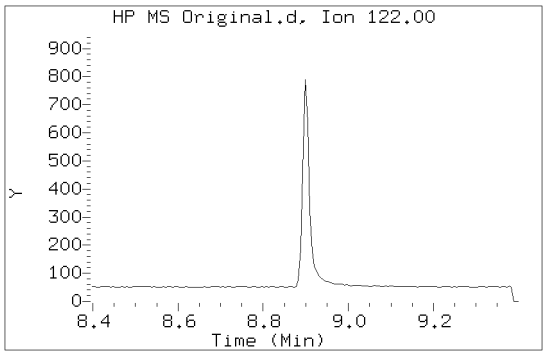

**AFTER**

MASS
244.1
AREA
7185
HEIGHT
6143
29-Jun-2023
14:26
ALSHS
Ser



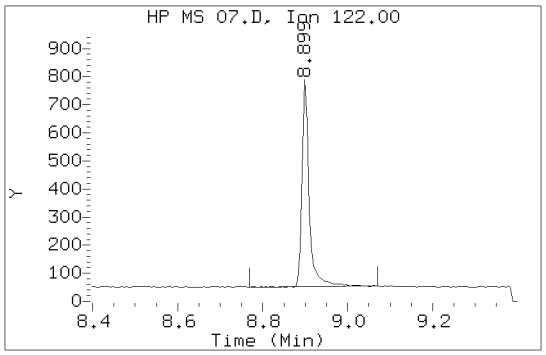

**BEFORE**

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server




**AFTER**

MASS
122
AREA
850
HEIGHT
736
29-Jun-2023
14:26
ALSHS
Ser



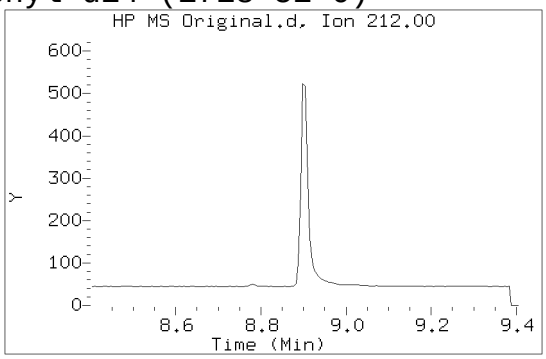
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

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

Reason Code:

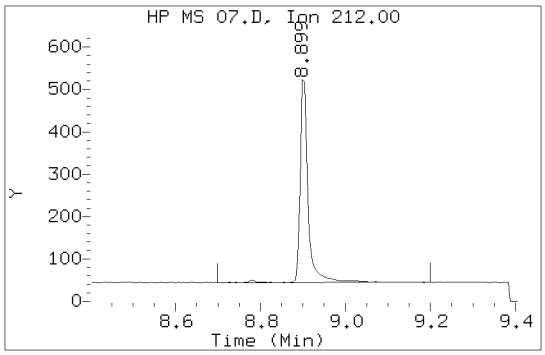
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server




AFTER

MASS
212
AREA
622
HEIGHT
478
29-Jun-2023
14:26
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Lab Smp Id: 14DXICAL-0.15 Client Smp ID: 14DXICAL-0.15
Inj Date : 16-JUN-2023 12:38
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:20 Cal File: 08.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.128 | 3.128 | (1.000) | 3901 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 4.220 | 4.220 | (1.000) | 13349 | 0.10000 | |
| $ 33 Nitrobenzene-d5 | 82 | 3.584 | 3.584 | (0.849) | 6134 | 0.15000 | 0.1520(AQM) |
| * 86 Acenaphthene-d10 | 164 | 5.883 | 5.883 | (1.000) | 7708 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 5.245 | 5.245 | (0.891) | 11636 | 0.15000 | 0.1474 |
| * 126 Phenanthrene-d10 | 188 | 7.323 | 7.323 | (1.000) | 15157 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 10.018 | 10.018 | (1.000) | 10131 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.904 | 8.904 | (0.889) | 10881 | 0.15000 | 0.1472(M) |
| * 198 Perylene-d12 | 264 | 11.940 | 11.940 | (1.000) | 7987 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.464 | 1.464 | (0.468) | 1980 | 0.15000 | 0.1507(QH) |

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.
H - Operator selected an alternate compound hit.

01196835

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D



Date : 16-JUN-2023 12:38

Client ID: 14DXICAL-0.15

Instrument: SV6.i

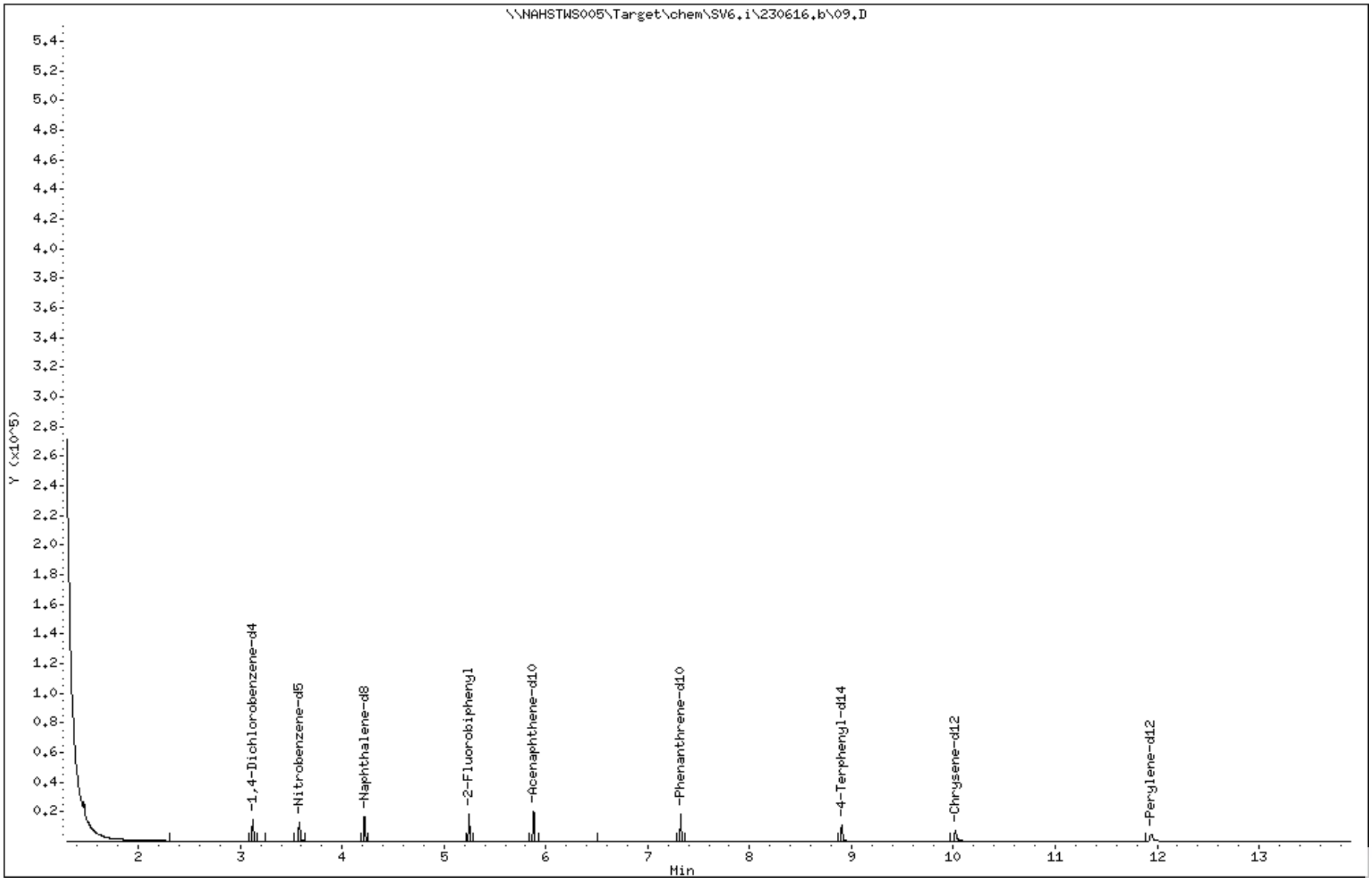
Sample Info: 14DXICAL-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



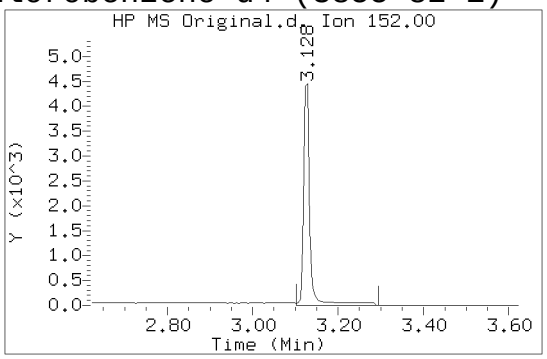
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

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

Reason Code:

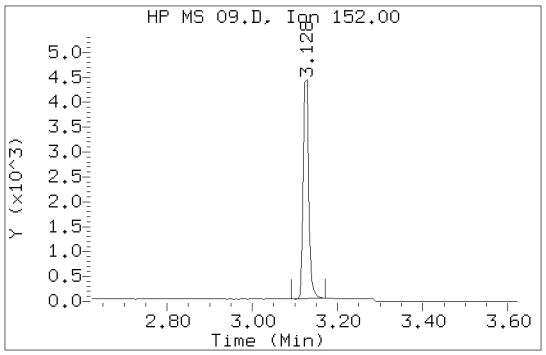
BEFORE

MASS
152
AREA
4505
HEIGHT
4453
16-Jun-2023
12:57
ALSHS
Server



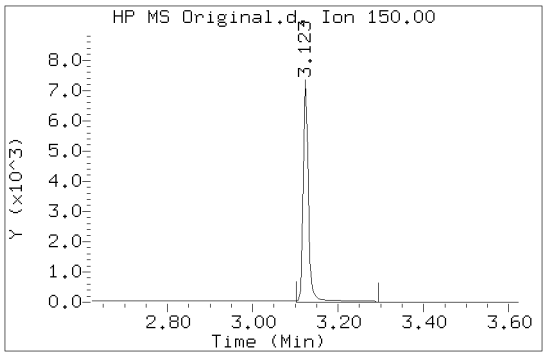

AFTER

MASS
152
AREA
3901
HEIGHT
4398
29-Jun-2023
14:27
ALSHS
Ser



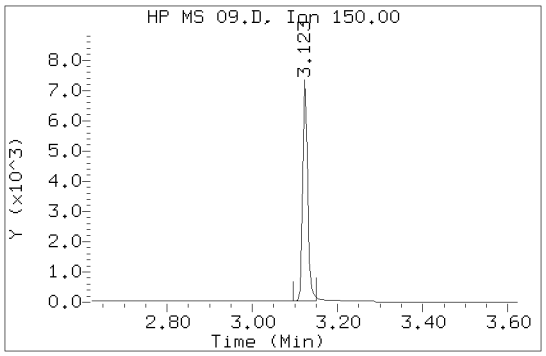

BEFORE

MASS
150
AREA
6326
HEIGHT
7351
16-Jun-2023
12:57
ALSHS
Server



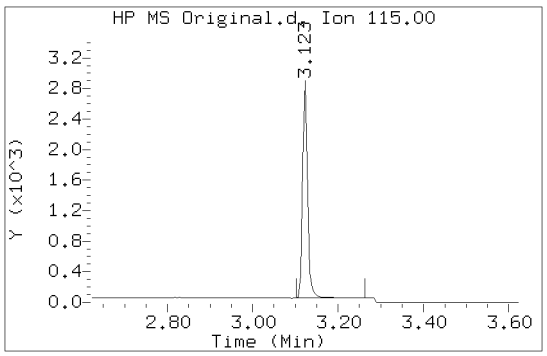

AFTER

MASS
150
AREA
5706
HEIGHT
7305
29-Jun-2023
14:27
ALSHS
Ser



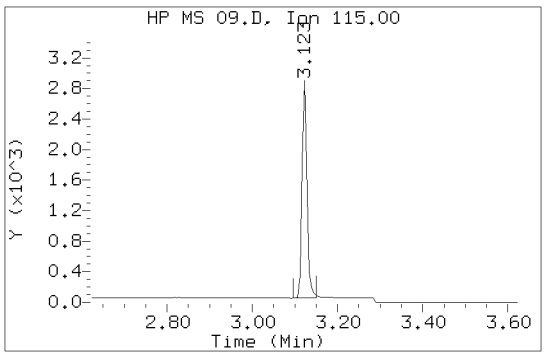

BEFORE

MASS
115
AREA
2255
HEIGHT
2847
16-Jun-2023
12:57
ALSHS
Server




AFTER

MASS
115
AREA
2210
HEIGHT
2846
29-Jun-2023
14:27
ALSHS
Ser

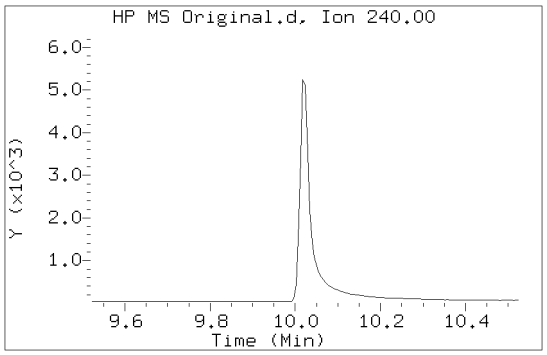



## Chrysene-d12 (1719-03-5)

Reason Code:

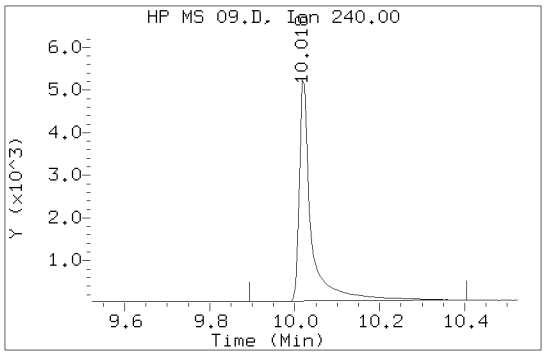
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server




AFTER

MASS
240
AREA
10131
HEIGHT
5190
29-Jun-2023
14:27
ALSHS
Ser



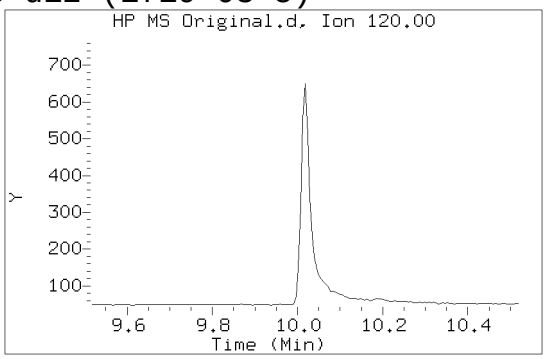
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

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

Reason Code:

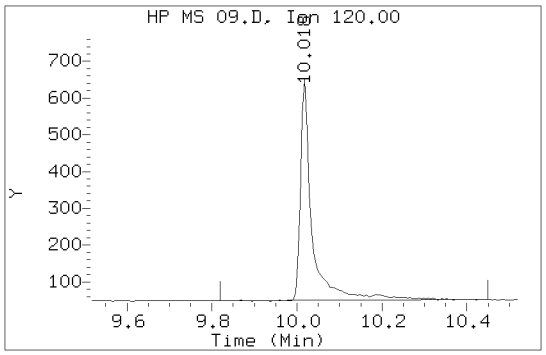
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



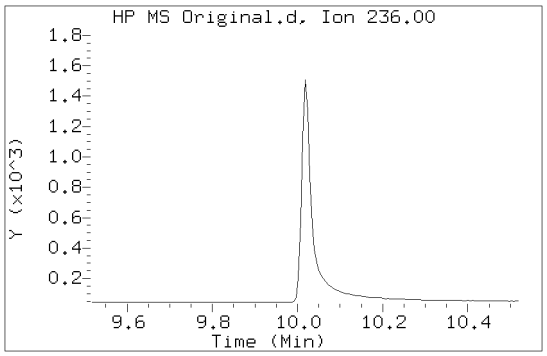

AFTER

MASS
120
AREA
1131
HEIGHT
600
29-Jun-2023
14:27
ALSHS
Ser



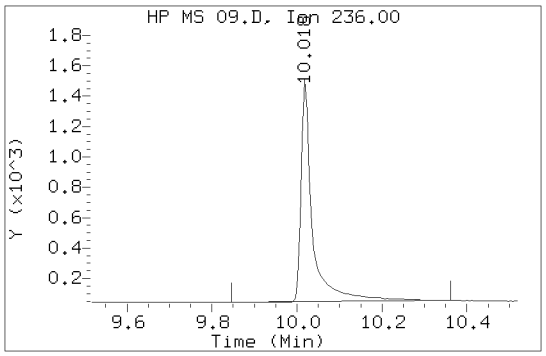

BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server




AFTER

MASS
236
AREA
2695
HEIGHT
1458
29-Jun-2023
14:27
ALSHS
Ser

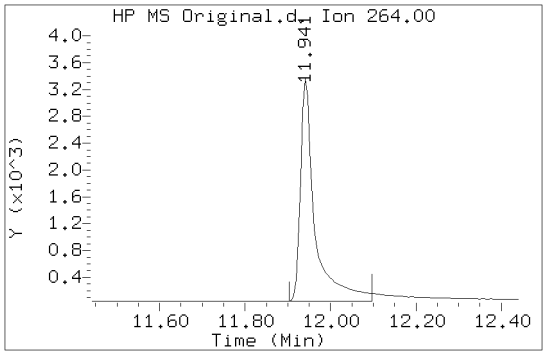



## Perylene-d12 (1520-96-3)

Reason Code:

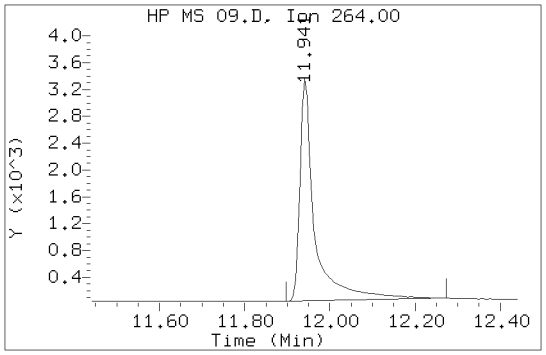
BEFORE

MASS
264
AREA
7735
HEIGHT
3310
16-Jun-2023
12:57
ALSHS
Server



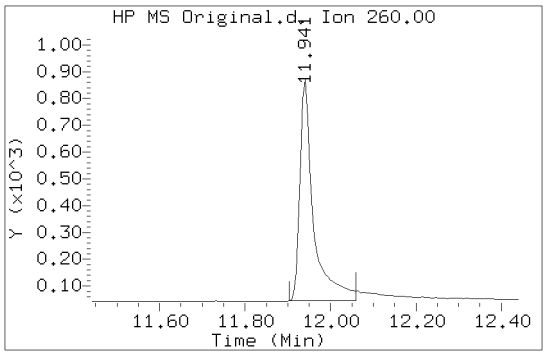

AFTER

MASS
264
AREA
7987
HEIGHT
3307
29-Jun-2023
14:27
ALSHS
Ser



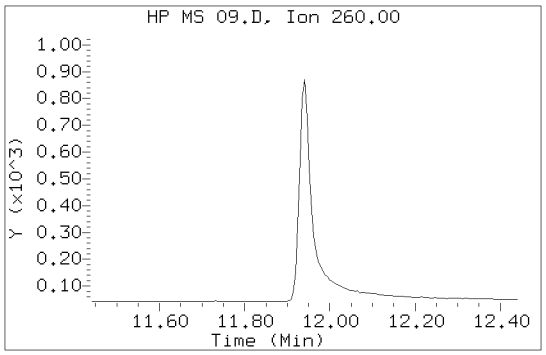

BEFORE

MASS
260
AREA
1816
HEIGHT
824
16-Jun-2023
12:57
ALSHS
Server




AFTER

MASS
260
AREA
2012
HEIGHT
823
29-Jun-2023
14:27
ALSHS
Ser



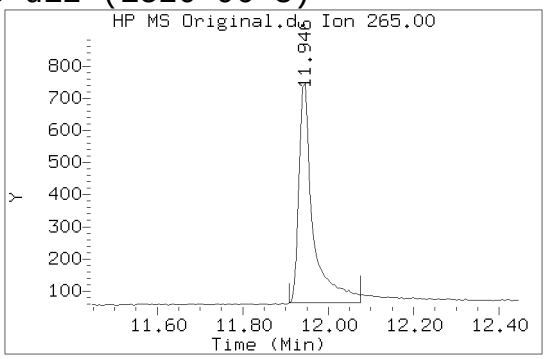
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

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

Reason Code:

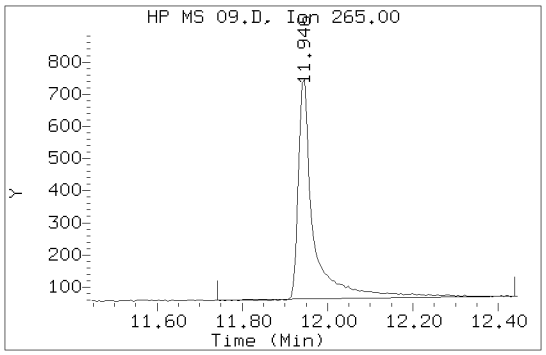
**BEFORE**

MASS
265
AREA
1571
HEIGHT
682
16-Jun-2023
12:57
ALSHS
Server




**AFTER**

MASS
265
AREA
1706
HEIGHT
682
29-Jun-2023
14:27
ALSHS
Ser

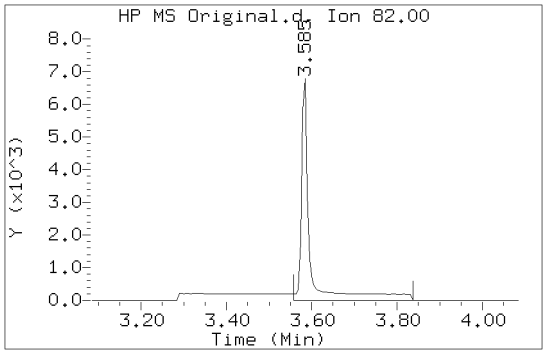



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

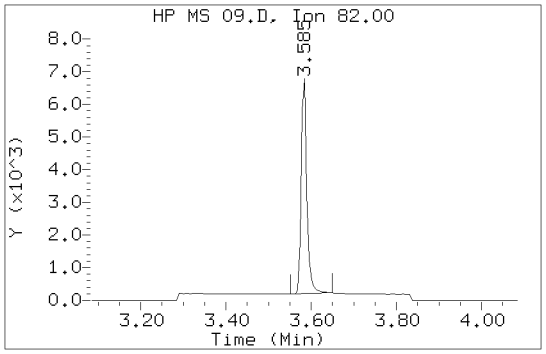
**BEFORE**

MASS
82
AREA
9487
HEIGHT
6787
16-Jun-2023
12:57
ALSHS
Server



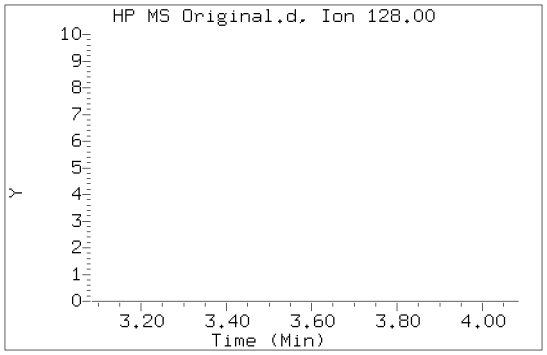

**AFTER**

MASS
82
AREA
6134
HEIGHT
6582
29-Jun-2023
14:27
ALSHS
Ser



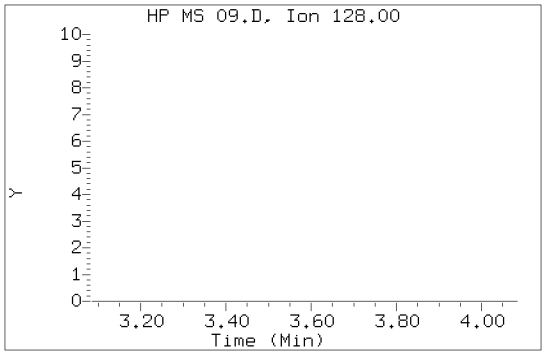

**BEFORE**

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



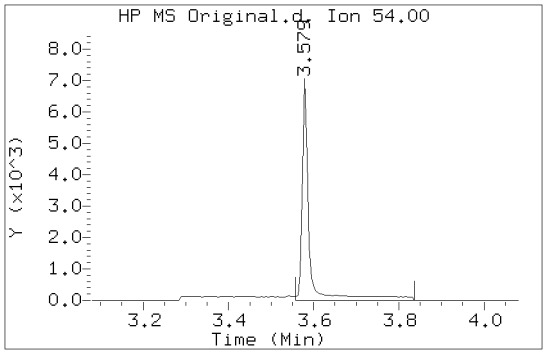

**AFTER**

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



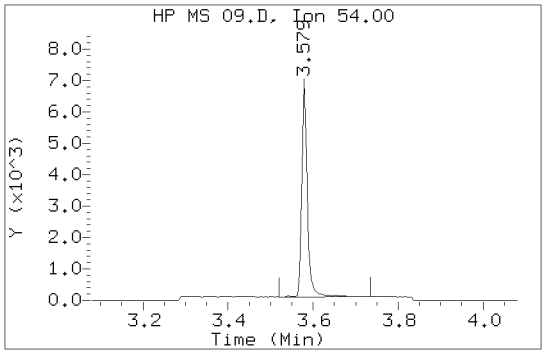

**BEFORE**

MASS
54
AREA
8200
HEIGHT
7059
16-Jun-2023
12:57
ALSHS
Server




**AFTER**

MASS
54
AREA
6294
HEIGHT
6945
29-Jun-2023
14:27
ALSHS
Ser

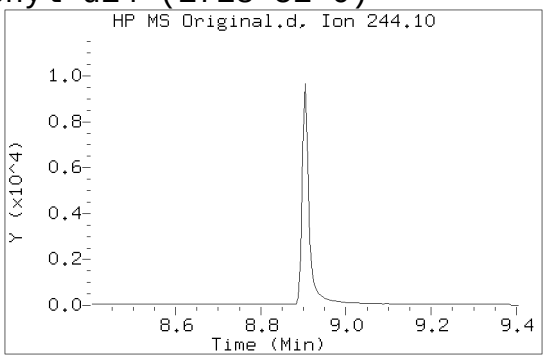


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

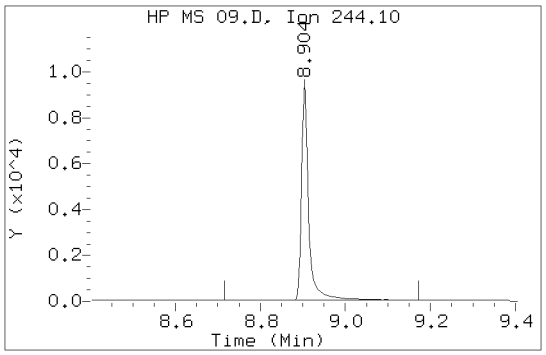
4-Terphenyl-d14 (1718-51-0)

Reason Code:

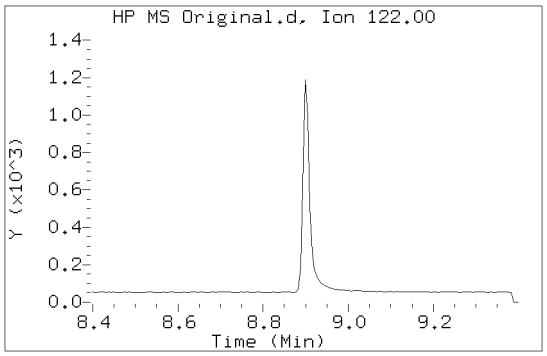
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



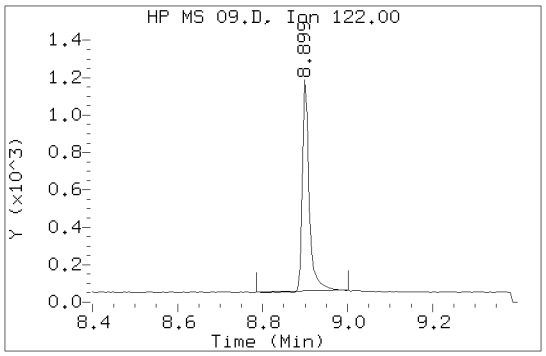

AFTER
MASS
244.1
AREA
10881
HEIGHT
9614
29-Jun-2023
14:27
ALSHS
Ser



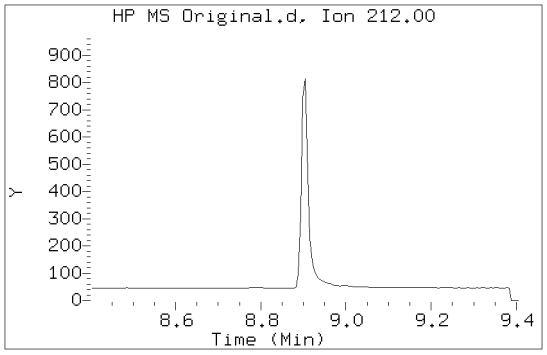

BEFORE
MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



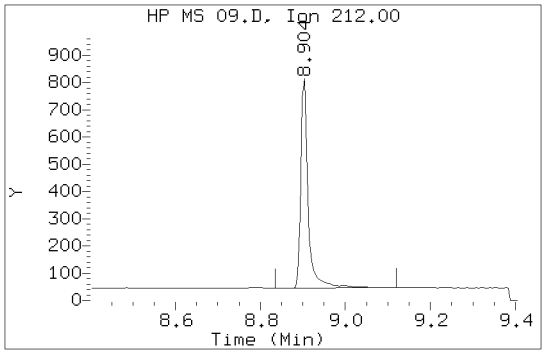

AFTER
MASS
122
AREA
1222
HEIGHT
1128
29-Jun-2023
14:27
ALSHS
Ser




BEFORE
MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server




AFTER
MASS
212
AREA
918
HEIGHT
769
29-Jun-2023
14:27
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D Page 1
Report Date: 29-Jun-2023 15:48

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Lab Smp Id: 14DXICAL-0.1 Client Smp ID: 14DXICAL-0.1
Inj Date : 16-JUN-2023 14:15
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.1
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 15:48 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.128 | 3.128 | (1.000) | 4026 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 4.220 | 4.220 | (1.000) | 13383 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.584 | 3.584 | (0.849) | 4123 | 0.10000 | 0.1019(QM) |
| * 86 Acenaphthene-d10 | 164 | 5.883 | 5.883 | (1.000) | 7945 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 5.248 | 5.248 | (0.892) | 7708 | 0.10000 | 0.09473(M) |
| * 126 Phenanthrene-d10 | 188 | 7.328 | 7.328 | (1.000) | 15519 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 10.028 | 10.028 | (1.000) | 9988 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.909 | 8.909 | (0.888) | 7529 | 0.10000 | 0.1033(M) |
| * 198 Perylene-d12 | 264 | 11.946 | 11.946 | (1.000) | 8963 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.471 | 1.471 | (0.470) | 1445 | 0.10000 | 0.1066(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.

01196841

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D



Date : 16-JUN-2023 14:15

Client ID: 14DXICAL-0.1

Instrument: SV6.i

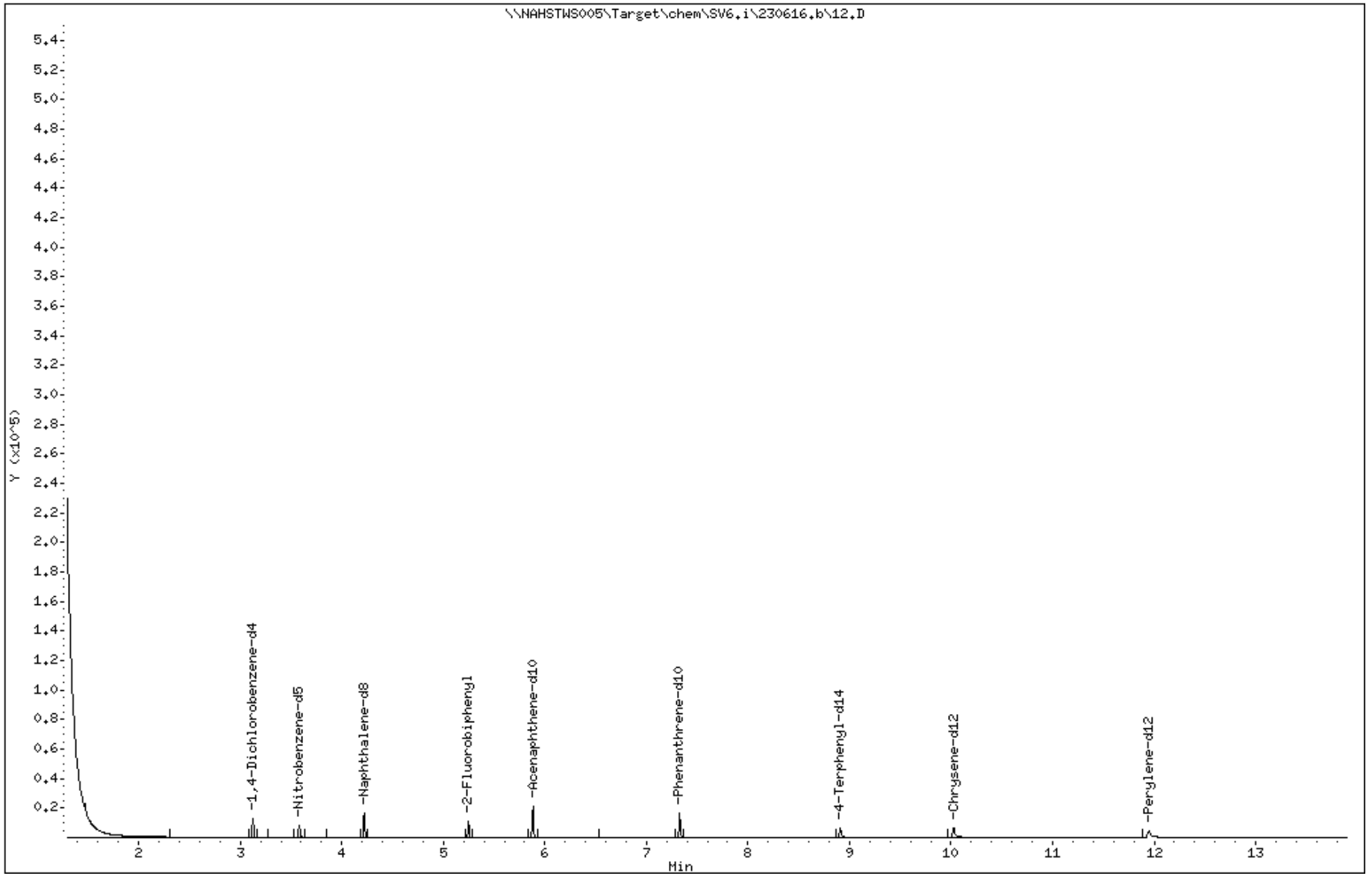
Sample Info: 14DXICAL-0.1

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

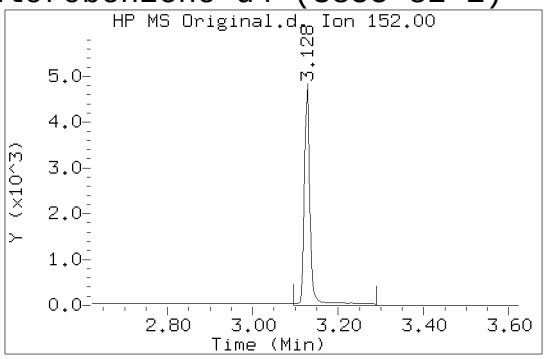


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

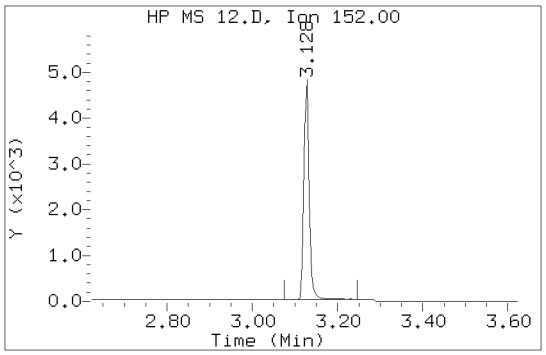
## 1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

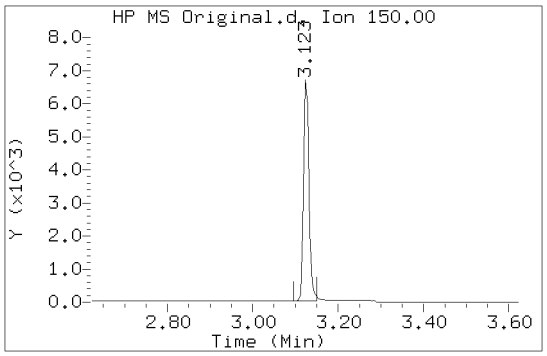
BEFORE
MASS
152
AREA
4570
HEIGHT
4842
16-Jun-2023
14:59
jiayi
lu



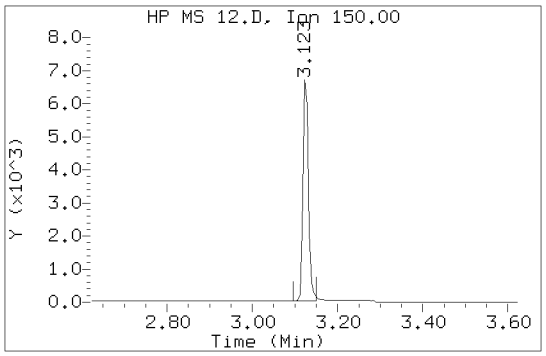

AFTER
MASS
152
AREA
4026
HEIGHT
4796
29-Jun-2023
15:48



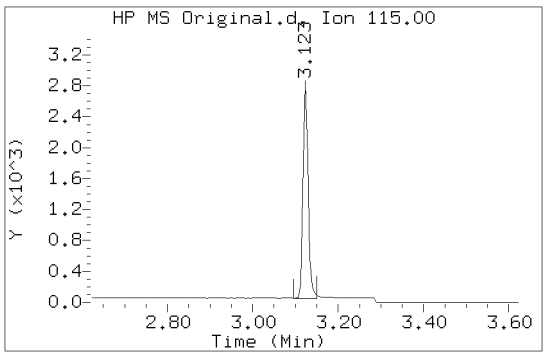

BEFORE
MASS
150
AREA
5752
HEIGHT
6676
16-Jun-2023
14:59
jiayi
lu



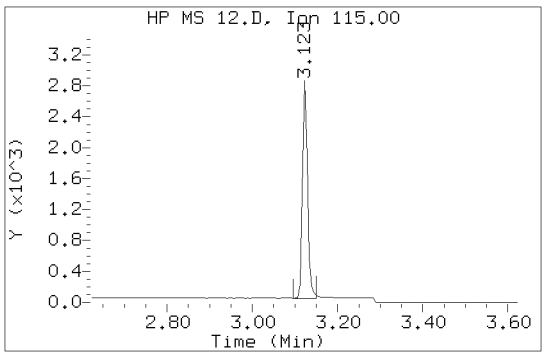

AFTER
MASS
150
AREA
5752
HEIGHT
6676
29-Jun-2023
15:48




BEFORE
MASS
115
AREA
2249
HEIGHT
2814
16-Jun-2023
14:59
jiayi
lu



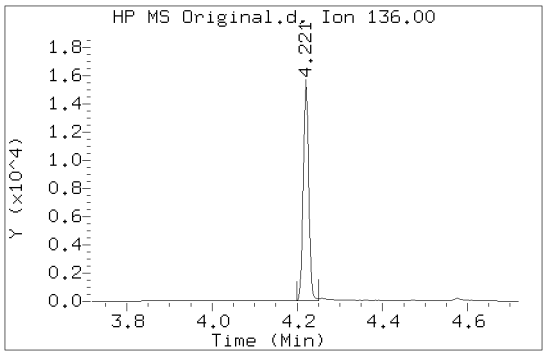

AFTER
MASS
115
AREA
2249
HEIGHT
2814
29-Jun-2023
15:48



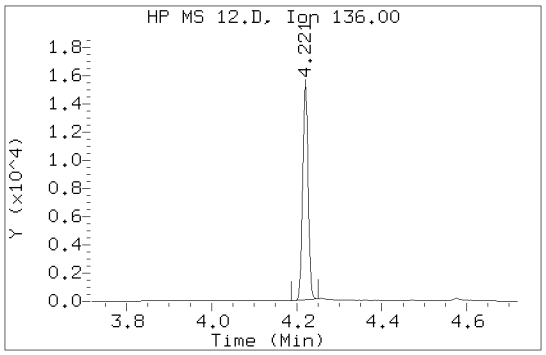

## Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
13619
HEIGHT
15676
16-Jun-2023
14:59
jiayi
lu




AFTER
MASS
136
AREA
13383
HEIGHT
15614
29-Jun-2023
15:48



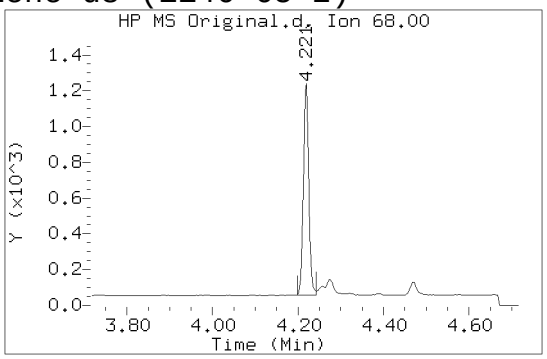
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

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

Reason Code:

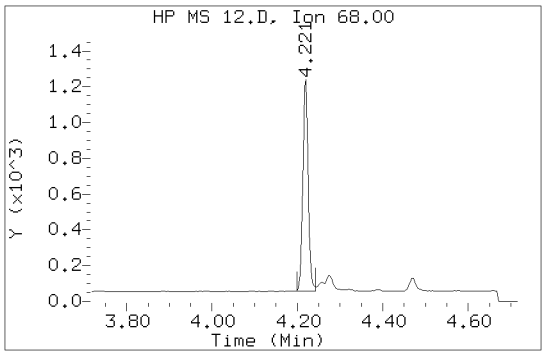
**BEFORE**

MASS
68
AREA
1062
HEIGHT
1182
16-Jun-2023
14:59
jiayi
lu




**AFTER**

MASS
68
AREA
1062
HEIGHT
1182
29-Jun-2023
15:48

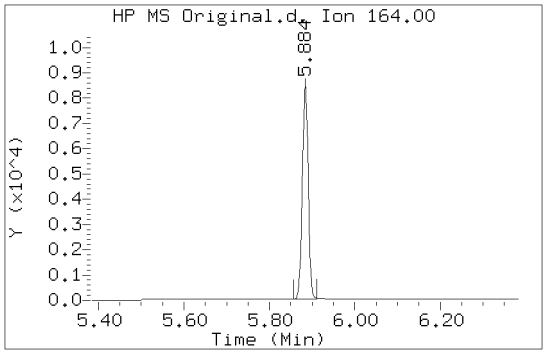



## Acenaphthene-d10 (15067-26-2)

Reason Code:

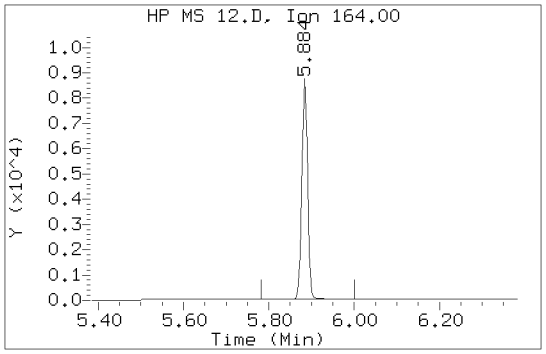
**BEFORE**

MASS
164
AREA
7893
HEIGHT
8717
16-Jun-2023
14:59
jiayi
lu



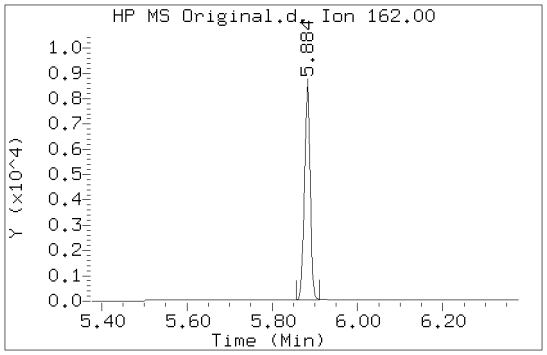

**AFTER**

MASS
164
AREA
7945
HEIGHT
8719
29-Jun-2023
15:48



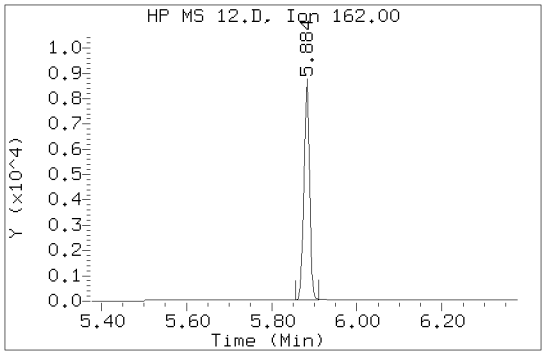

**BEFORE**

MASS
162
AREA
7978
HEIGHT
8729
16-Jun-2023
14:59
jiayi
lu



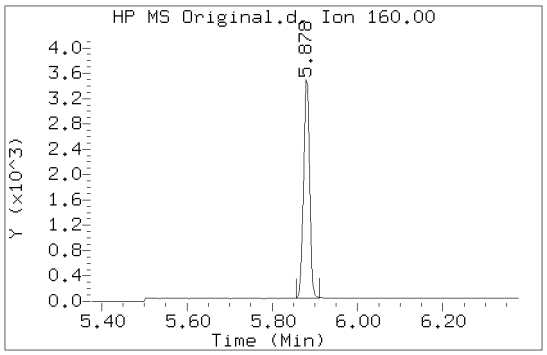

**AFTER**

MASS
162
AREA
7978
HEIGHT
8729
29-Jun-2023
15:48



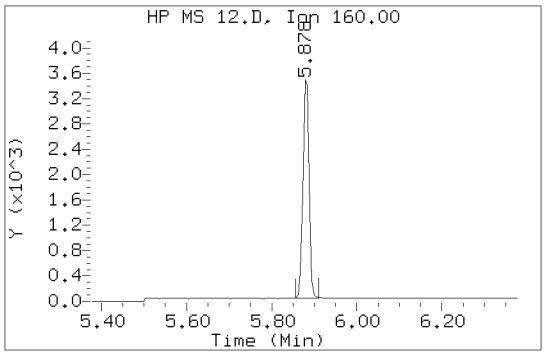

**BEFORE**

MASS
160
AREA
3420
HEIGHT
3449
16-Jun-2023
14:59
jiayi
lu




**AFTER**

MASS
160
AREA
3420
HEIGHT
3449
29-Jun-2023
15:48

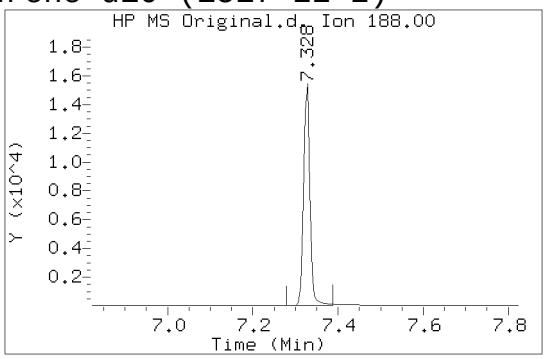


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

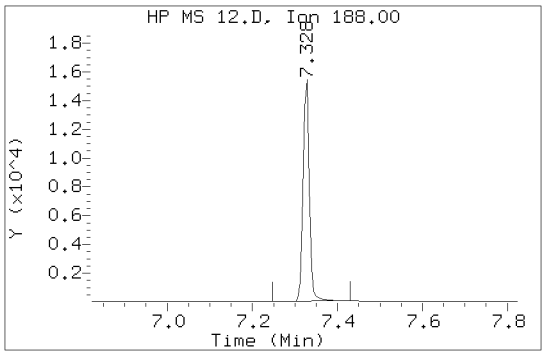
## Phenanthrene-d10 (1517-22-2)

Reason Code:

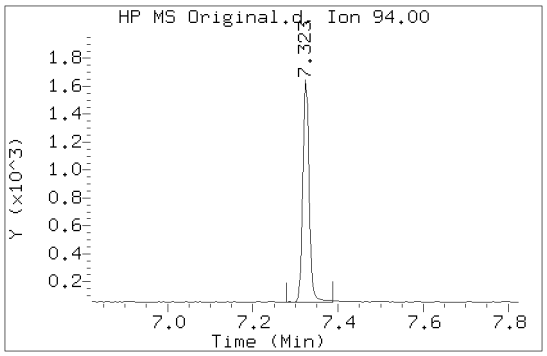
**BEFORE**
MASS
188
AREA
15580
HEIGHT
15412
16-Jun-2023
14:59
jiayi
lu



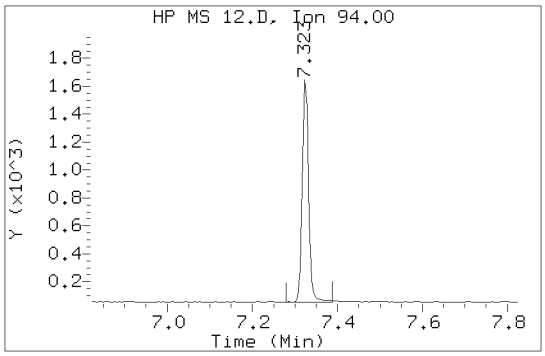

**AFTER**
MASS
188
AREA
15519
HEIGHT
15398
29-Jun-2023
15:48



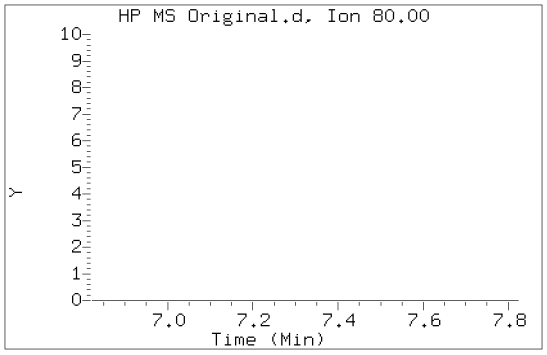

**BEFORE**
MASS
94
AREA
1615
HEIGHT
1589
16-Jun-2023
14:59
jiayi
lu



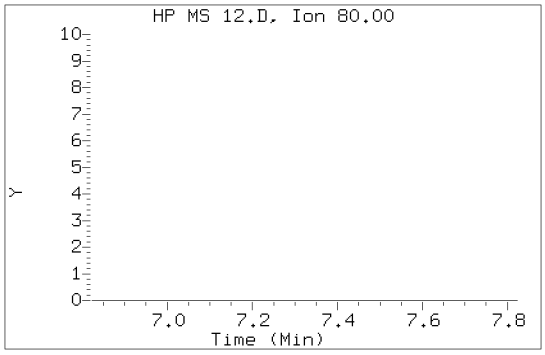

**AFTER**
MASS
94
AREA
1615
HEIGHT
1589
29-Jun-2023
15:48




**BEFORE**
MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



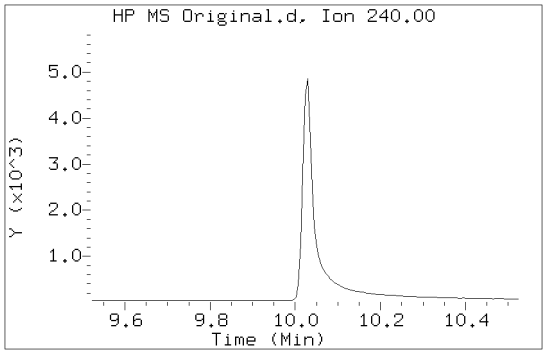

**AFTER**
MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
15:48



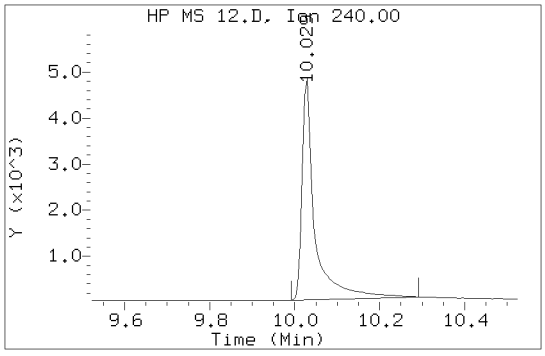

## Chrysene-d12 (1719-03-5)

Reason Code:

**BEFORE**
MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu




**AFTER**
MASS
240
AREA
9988
HEIGHT
4801
29-Jun-2023
15:48

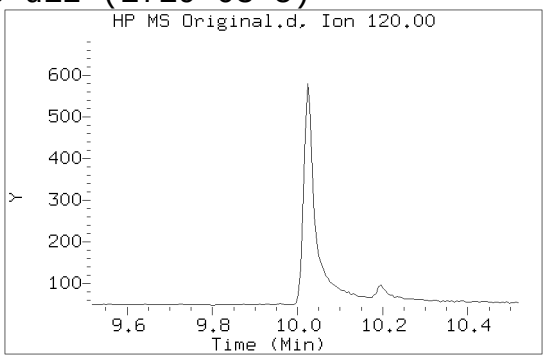


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

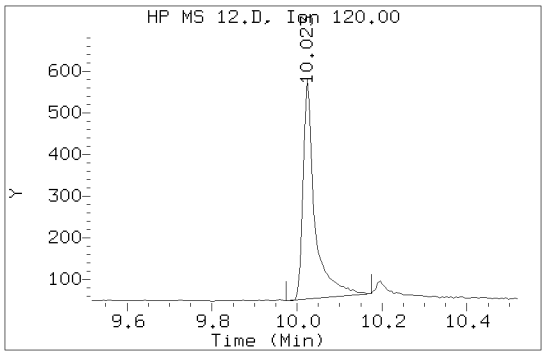
## Chrysene-d12 (1719-03-5)

Reason Code:

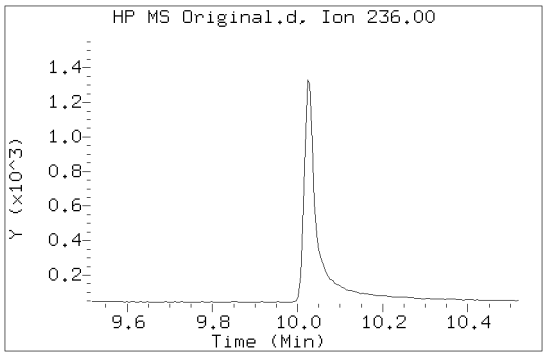
**BEFORE**
MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



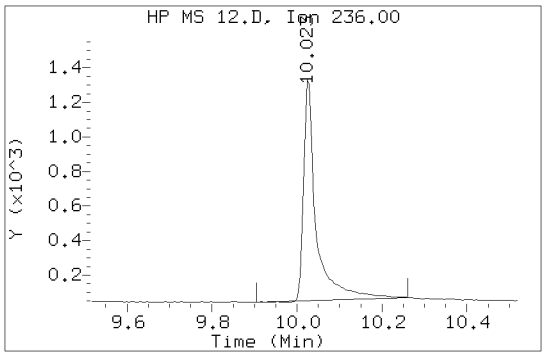

**AFTER**
MASS
120
AREA
998
HEIGHT
525
29-Jun-2023
15:48




**BEFORE**
MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



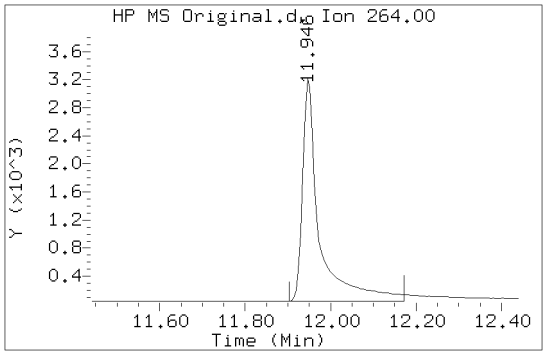

**AFTER**
MASS
236
AREA
2622
HEIGHT
1277
29-Jun-2023
15:48



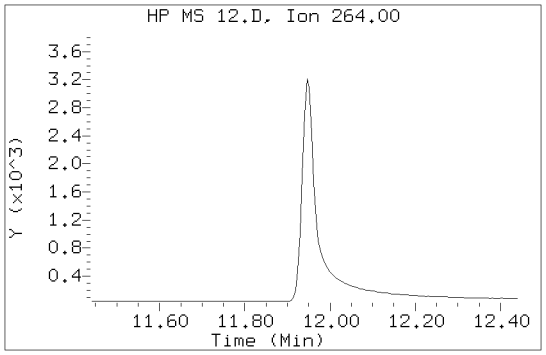

## Perylene-d12 (1520-96-3)

Reason Code:

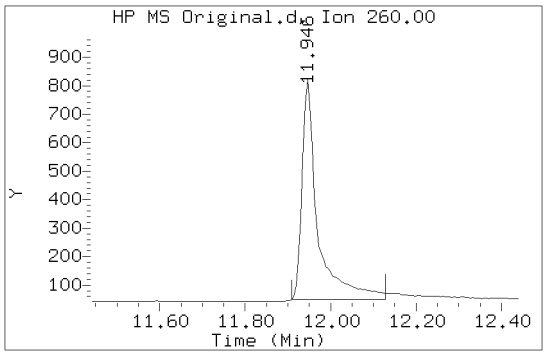
**BEFORE**
MASS
264
AREA
8613
HEIGHT
3164
16-Jun-2023
14:59
jiayi
lu



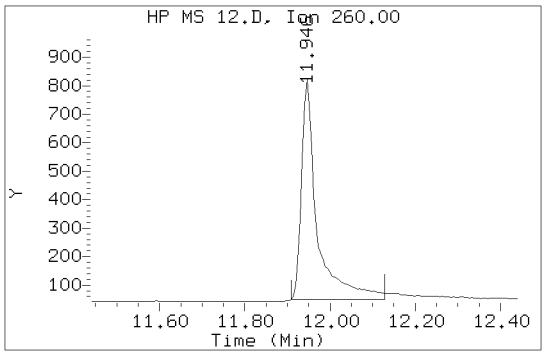

**AFTER**
MASS
264
AREA
8963
HEIGHT
3161
29-Jun-2023
15:48




**BEFORE**
MASS
260
AREA
1977
HEIGHT
772
16-Jun-2023
14:59
jiayi
lu




**AFTER**
MASS
260
AREA
1977
HEIGHT
772
29-Jun-2023
15:48



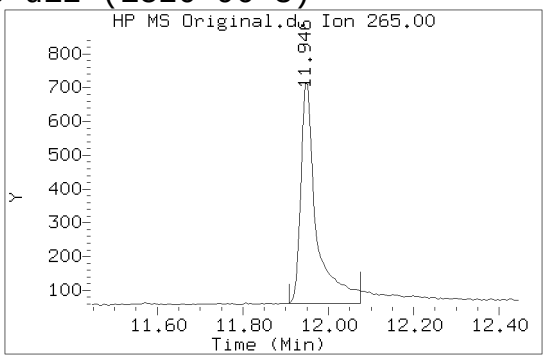
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

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

Reason Code:

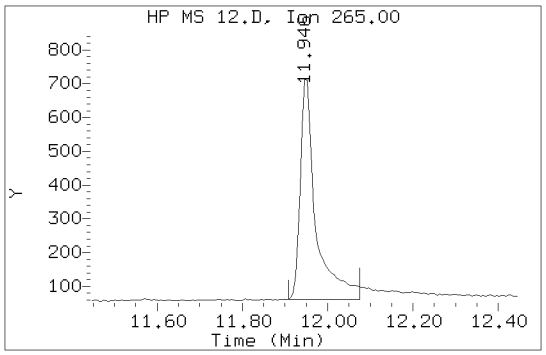
**BEFORE**

MASS
265
AREA
1666
HEIGHT
651
16-Jun-2023
14:59
jiayi
lu




**AFTER**

MASS
265
AREA
1666
HEIGHT
651
29-Jun-2023
15:48

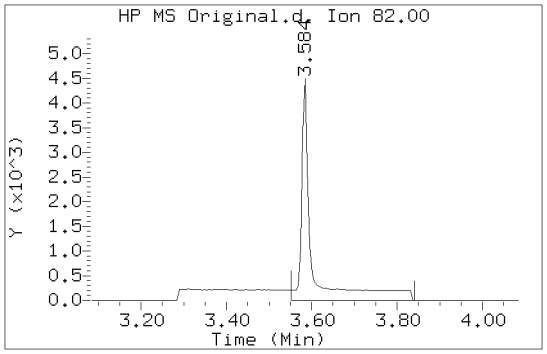



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

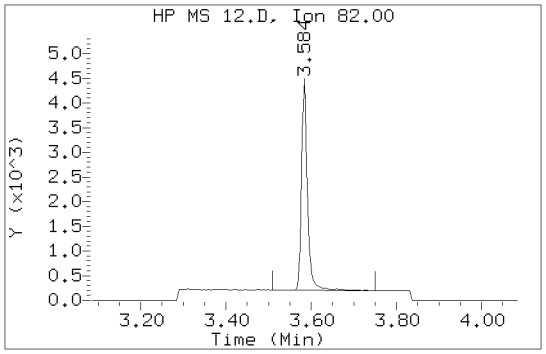
**BEFORE**

MASS
82
AREA
7524
HEIGHT
4492
16-Jun-2023
14:59
jiayi
lu



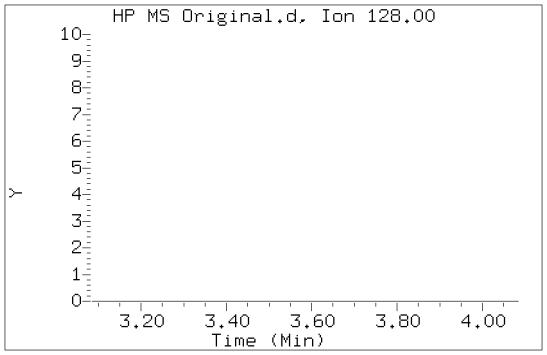

**AFTER**

MASS
82
AREA
4123
HEIGHT
4285
29-Jun-2023
15:48



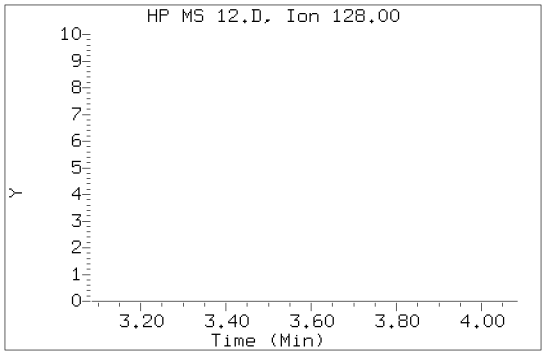

**BEFORE**

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



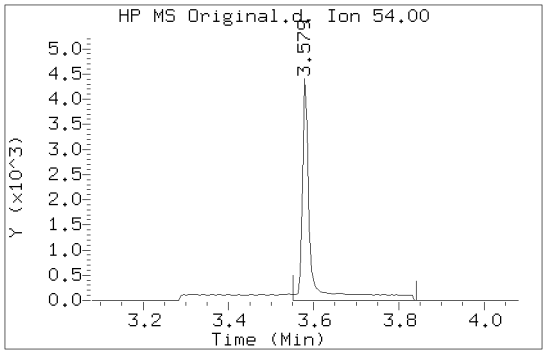

**AFTER**

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
15:48



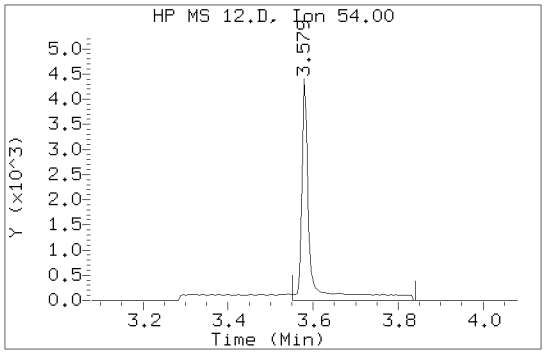

**BEFORE**

MASS
54
AREA
6015
HEIGHT
4407
16-Jun-2023
14:59
jiayi
lu




**AFTER**

MASS
54
AREA
6015
HEIGHT
4407
29-Jun-2023
15:48

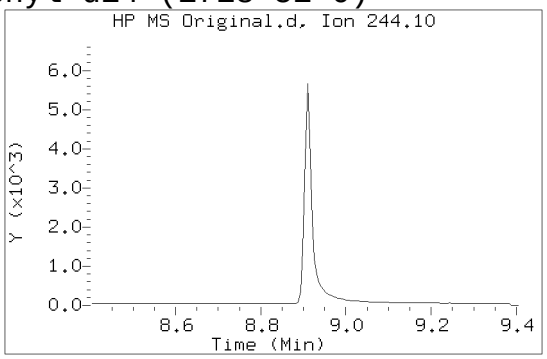


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

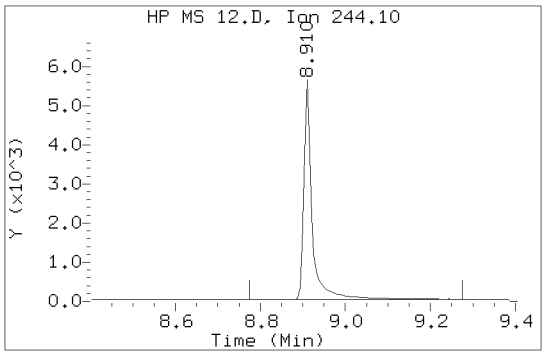
## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

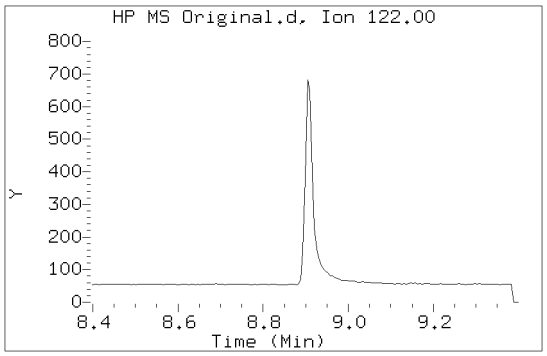
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



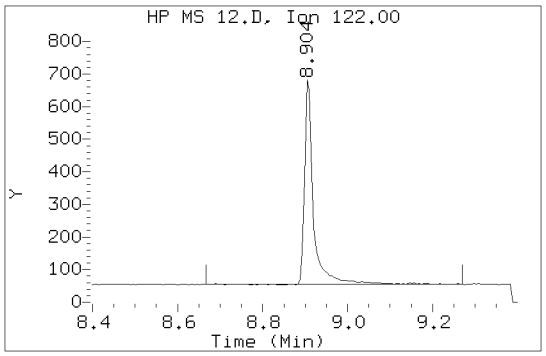

AFTER
MASS
244.1
AREA
7529
HEIGHT
5616
29-Jun-2023
15:48



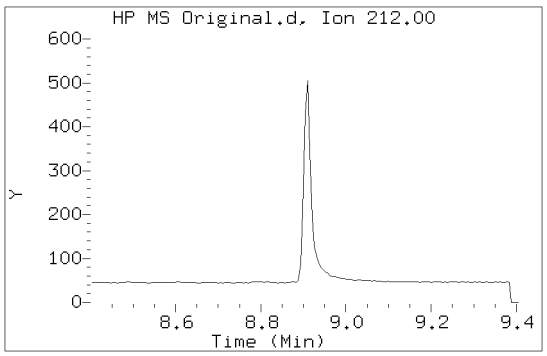

BEFORE
MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



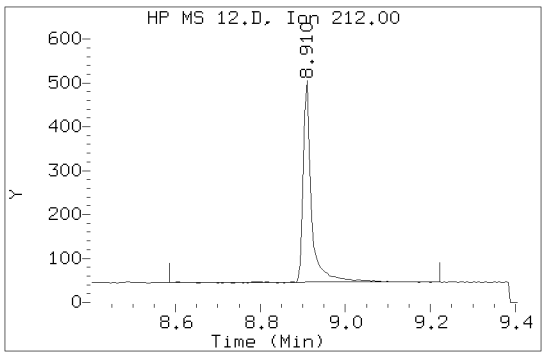

AFTER
MASS
122
AREA
918
HEIGHT
627
29-Jun-2023
15:48




BEFORE
MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



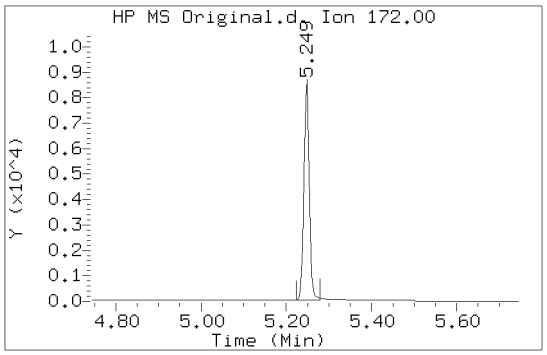

AFTER
MASS
212
AREA
625
HEIGHT
459
29-Jun-2023
15:48



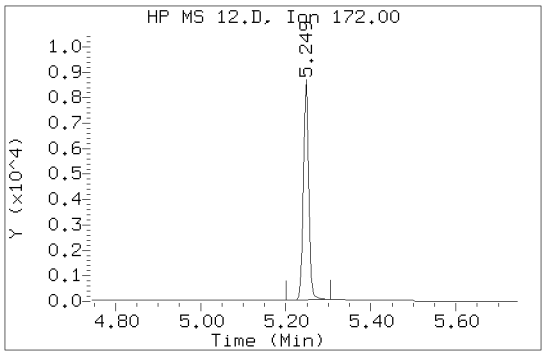

## 2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
7733
HEIGHT
8663
16-Jun-2023
14:59
jiayi
lu




AFTER
MASS
172
AREA
7708
HEIGHT
8650
29-Jun-2023
15:48



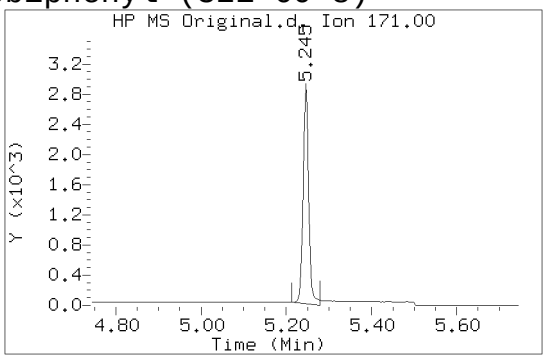
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Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

2-Fluorobiphenyl (321-60-8)

Reason Code:

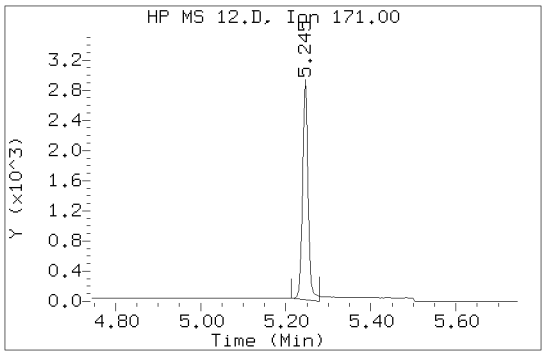
BEFORE

MASS
171
AREA
2685
HEIGHT
2917
16-Jun-2023
14:59
jiayi
lu




AFTER

MASS
171
AREA
2685
HEIGHT
2917
29-Jun-2023
15:48



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Lab Smp Id: 14DXICAL-0.5 Client Smp ID: 14DXICAL-0.5
Inj Date : 16-JUN-2023 14:51
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.5
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:38 Cal File: 09.D
Als bottle: 14 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.122 | 3.122 | (1.000) | 4165 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 4.220 | 4.220 | (1.000) | 13989 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.579 | 3.579 | (0.848) | 19311 | 0.50000 | 0.4566(AM) |
| * 86 Acenaphthene-d10 | 164 | 5.883 | 5.883 | (1.000) | 8414 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 5.245 | 5.245 | (0.891) | 39708 | 0.50000 | 0.4608(AM) |
| * 126 Phenanthrene-d10 | 188 | 7.322 | 7.322 | (1.000) | 16472 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 10.017 | 10.017 | (1.000) | 10483 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.904 | 8.904 | (0.889) | 39805 | 0.50000 | 0.5203(AM) |
| * 198 Perylene-d12 | 264 | 11.940 | 11.940 | (1.000) | 8460 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.452 | 1.452 | (0.465) | 6496 | 0.50000 | 0.4630(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.

01196851

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D

Page 1

Date : 16-JUN-2023 14:51

Client ID: 14DXICAL-0.5

Instrument: SV6.i

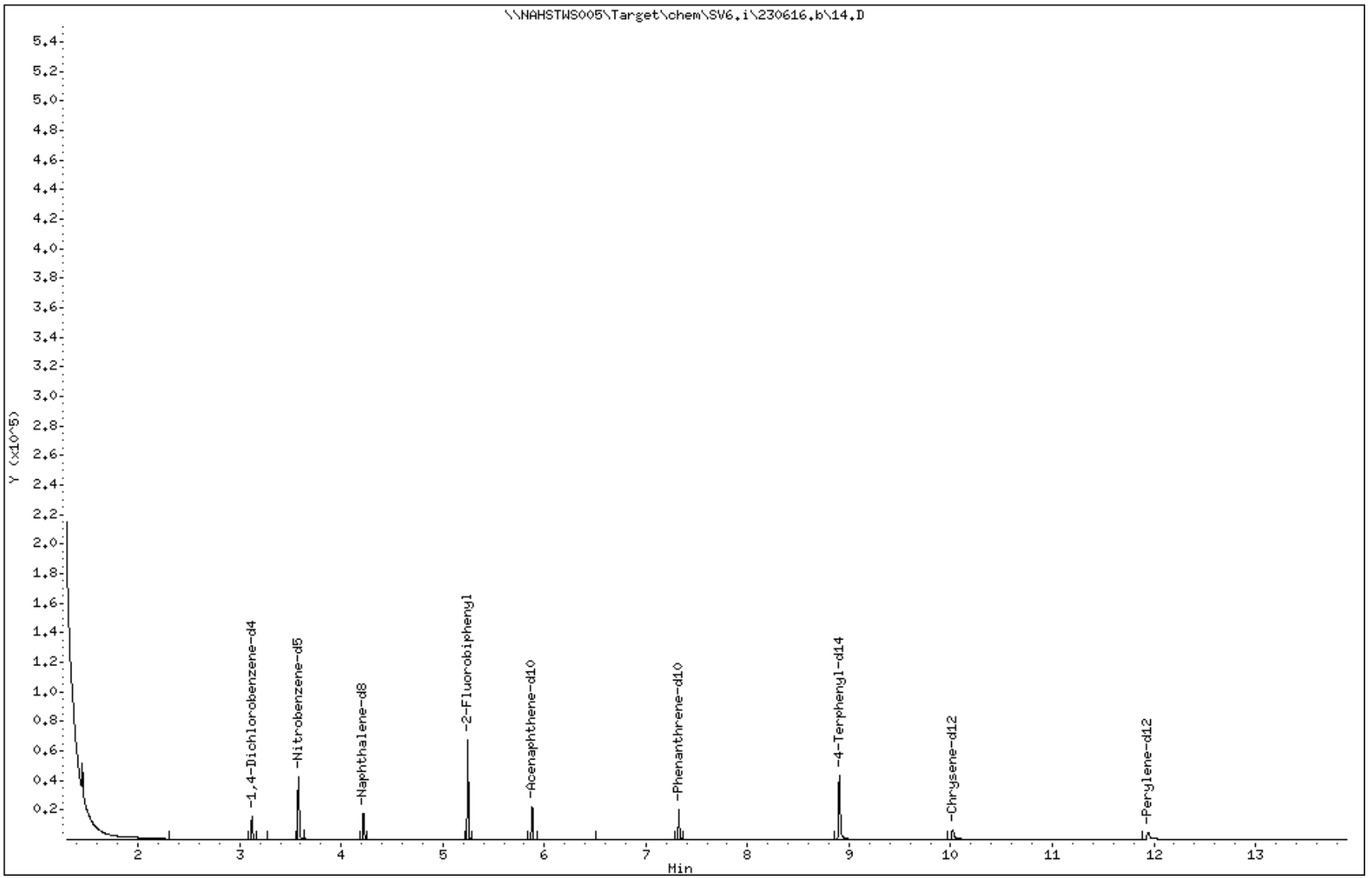
Sample Info: 14DXICAL-0.5

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



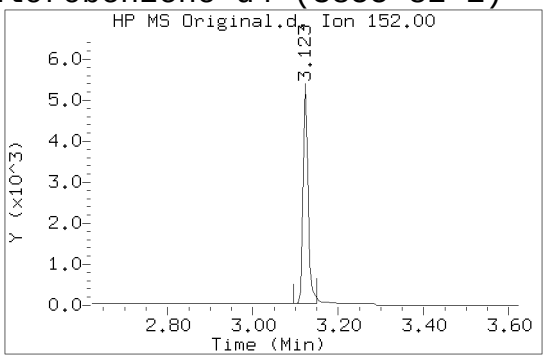
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

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

Reason Code:

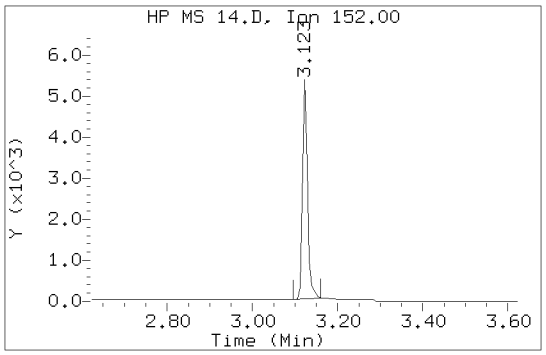
BEFORE

MASS
152
AREA
4211
HEIGHT
5358
16-Jun-2023
15:06
ALSHS
Server



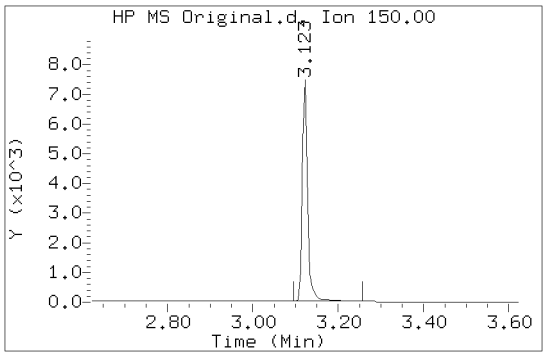

AFTER

MASS
152
AREA
4165
HEIGHT
5341
29-Jun-2023
14:27
ALSHS
Ser



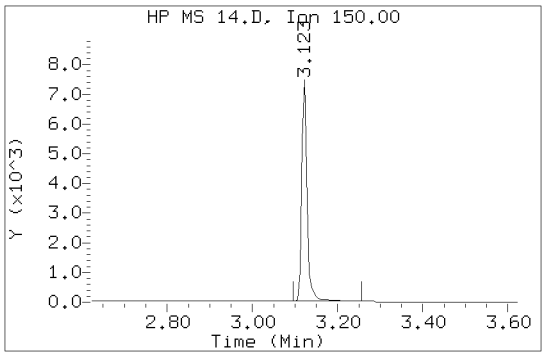

BEFORE

MASS
150
AREA
6228
HEIGHT
7441
16-Jun-2023
15:06
ALSHS
Server



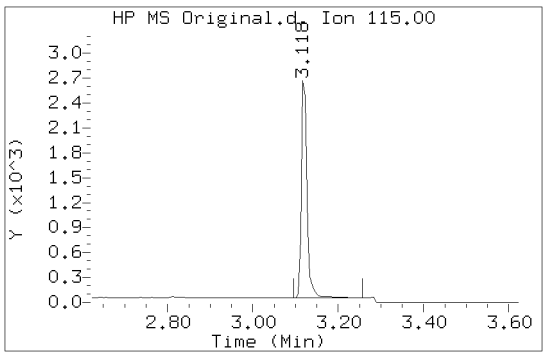

AFTER

MASS
150
AREA
6228
HEIGHT
7441
29-Jun-2023
14:27
ALSHS
Ser



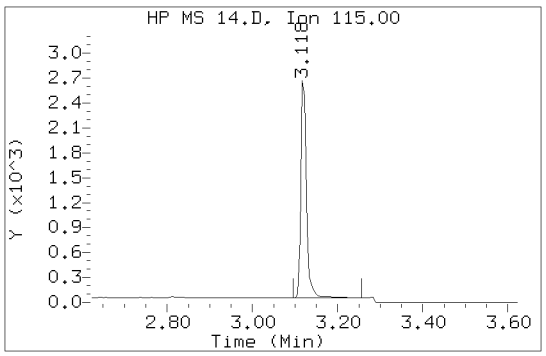

BEFORE

MASS
115
AREA
2367
HEIGHT
2615
16-Jun-2023
15:06
ALSHS
Server




AFTER

MASS
115
AREA
2367
HEIGHT
2615
29-Jun-2023
14:27
ALSHS
Ser

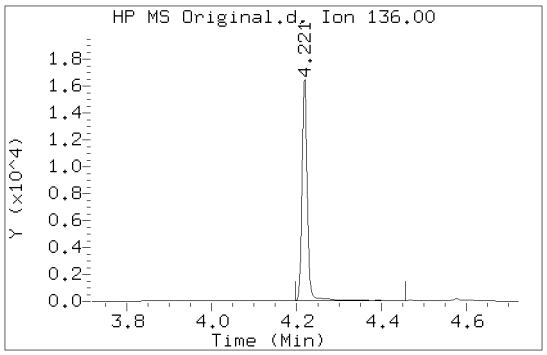



## Naphthalene-d8 (1146-65-2)

Reason Code:

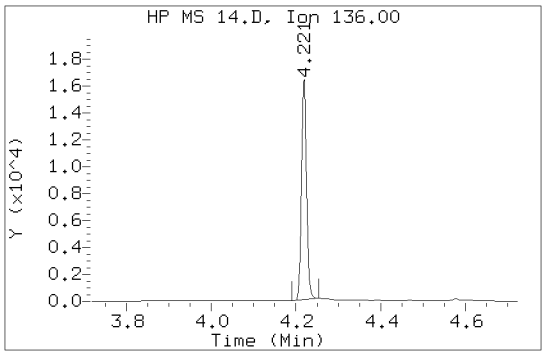
BEFORE

MASS
136
AREA
14856
HEIGHT
16448
16-Jun-2023
15:06
ALSHS
Server




AFTER

MASS
136
AREA
13989
HEIGHT
16349
29-Jun-2023
14:27
ALSHS
Ser



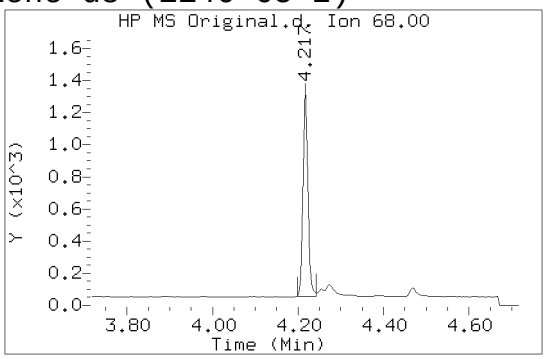
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

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

Reason Code:

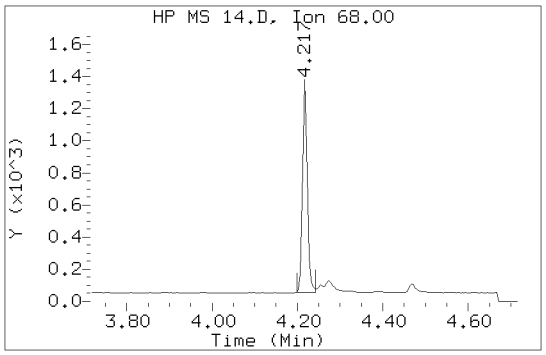
**BEFORE**

MASS
68
AREA
1074
HEIGHT
1326
16-Jun-2023
15:06
ALSHS
Server




**AFTER**

MASS
68
AREA
1074
HEIGHT
1326
29-Jun-2023
14:27
ALSHS
Ser

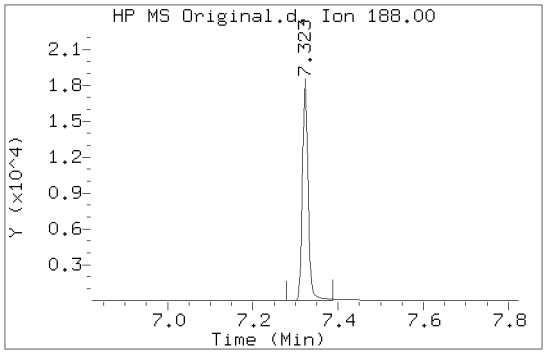



## Phenanthrene-d10 (1517-22-2)

Reason Code:

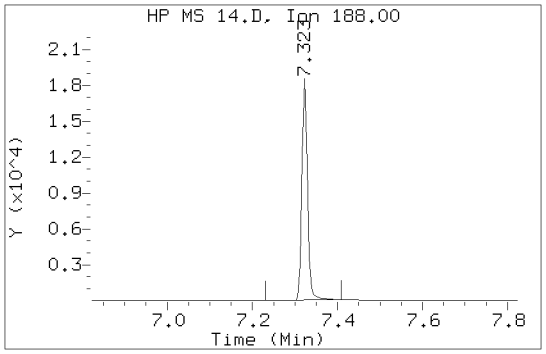
**BEFORE**

MASS
188
AREA
16664
HEIGHT
18523
16-Jun-2023
15:06
ALSHS
Server



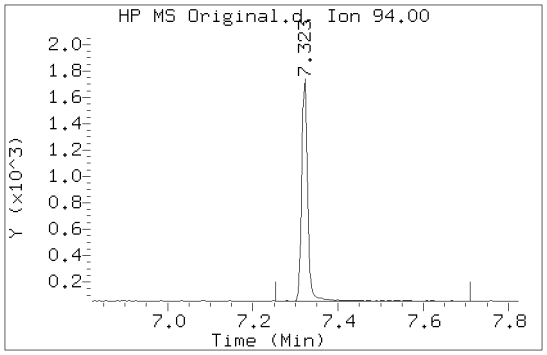

**AFTER**

MASS
188
AREA
16472
HEIGHT
18498
29-Jun-2023
14:27
ALSHS
Ser



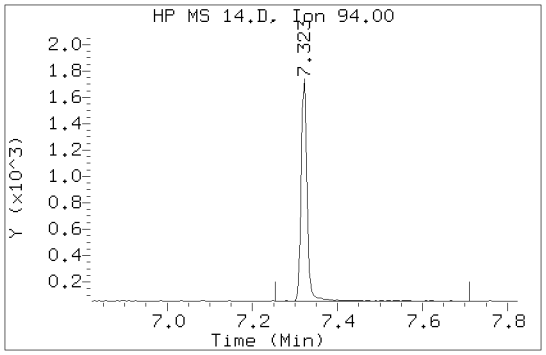

**BEFORE**

MASS
94
AREA
1634
HEIGHT
1685
16-Jun-2023
15:06
ALSHS
Server



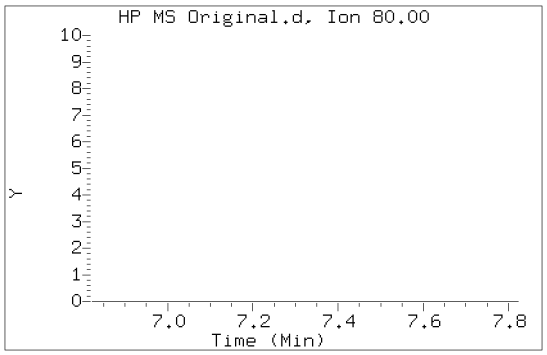

**AFTER**

MASS
94
AREA
1634
HEIGHT
1685
29-Jun-2023
14:27
ALSHS
Ser



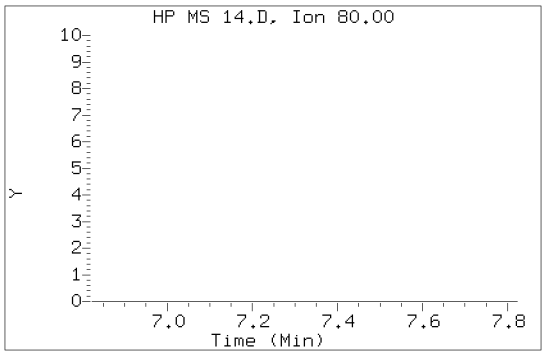

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser

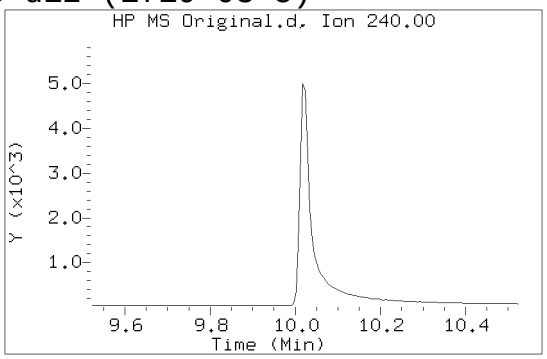


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

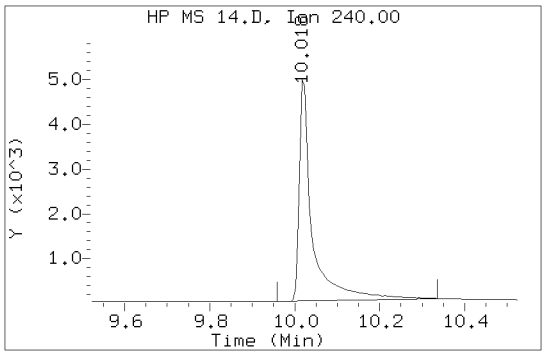
## Chrysene-d12 (1719-03-5)

Reason Code:

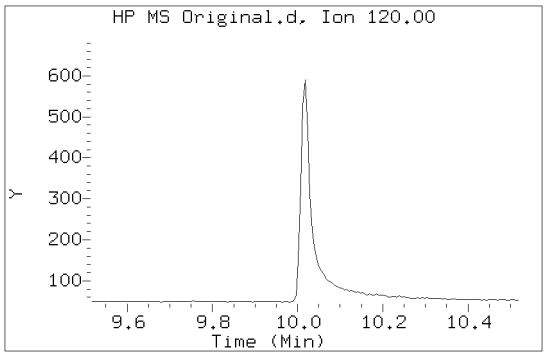
BEFORE
MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



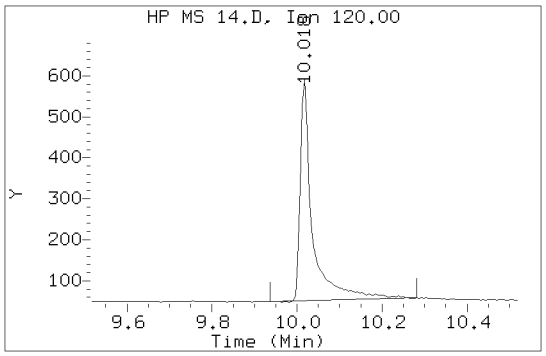

AFTER
MASS
240
AREA
10483
HEIGHT
4943
29-Jun-2023
14:27
ALSHS
Ser



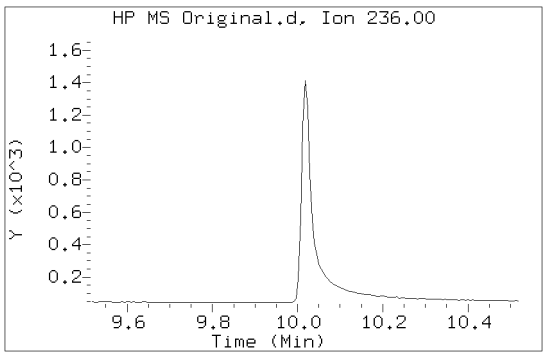

BEFORE
MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



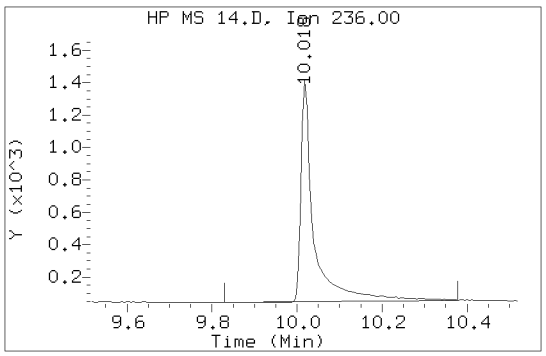

AFTER
MASS
120
AREA
1068
HEIGHT
538
29-Jun-2023
14:27
ALSHS
Ser




BEFORE
MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



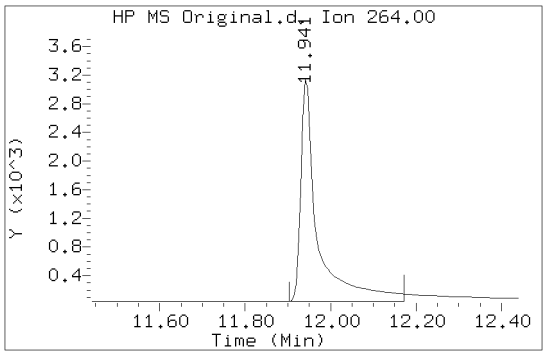

AFTER
MASS
236
AREA
2872
HEIGHT
1362
29-Jun-2023
14:27
ALSHS
Ser



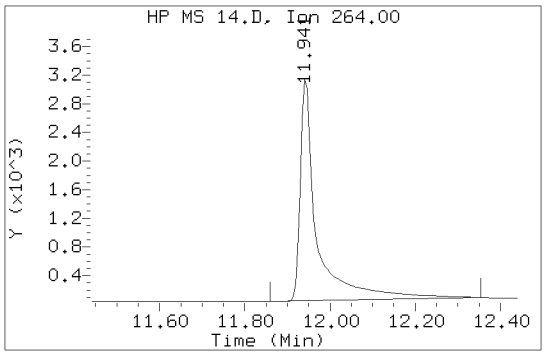

## Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
264
AREA
8406
HEIGHT
3088
16-Jun-2023
15:06
ALSHS
Server




AFTER
MASS
264
AREA
8460
HEIGHT
3081
29-Jun-2023
14:27
ALSHS
Ser



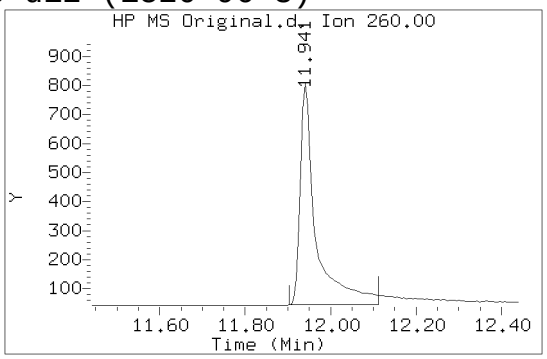
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

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

Reason Code:

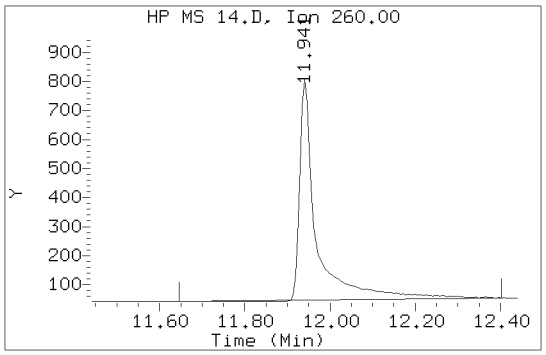
BEFORE

MASS
260
AREA
1950
HEIGHT
761
16-Jun-2023
15:06
ALSHS
Server



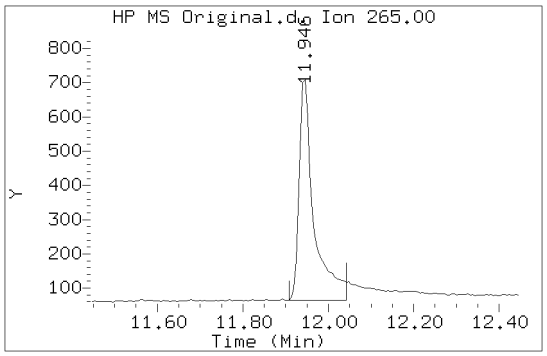

AFTER

MASS
260
AREA
2034
HEIGHT
757
29-Jun-2023
14:27
ALSHS
Ser



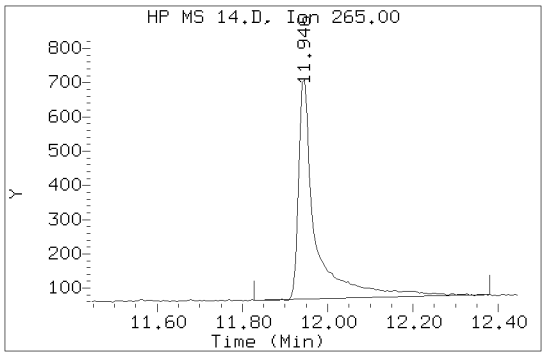

BEFORE

MASS
265
AREA
1539
HEIGHT
643
16-Jun-2023
15:06
ALSHS
Server




AFTER

MASS
265
AREA
1765
HEIGHT
639
29-Jun-2023
14:27
ALSHS
Ser

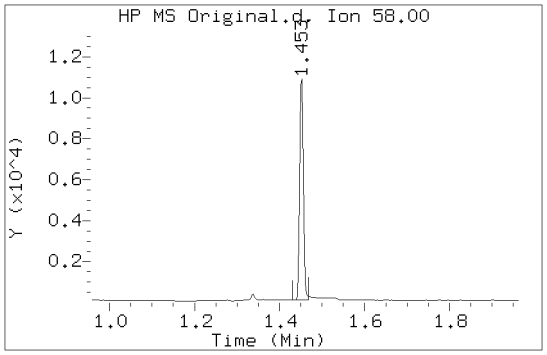



## 1,4-Dioxane ()

Reason Code:

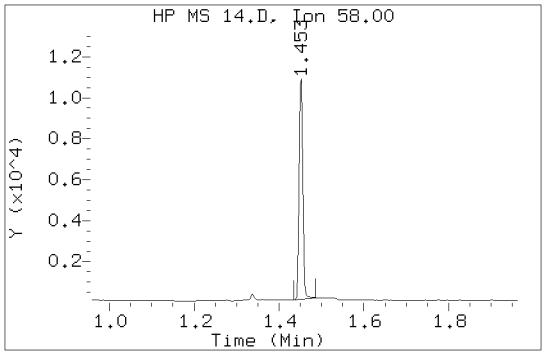
BEFORE

MASS
58
AREA
6535
HEIGHT
10789
16-Jun-2023
15:06
ALSHS
Server



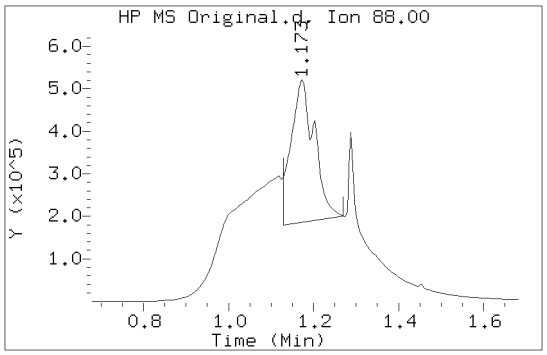

AFTER

MASS
58
AREA
6496
HEIGHT
10751
29-Jun-2023
14:27
ALSHS
Ser



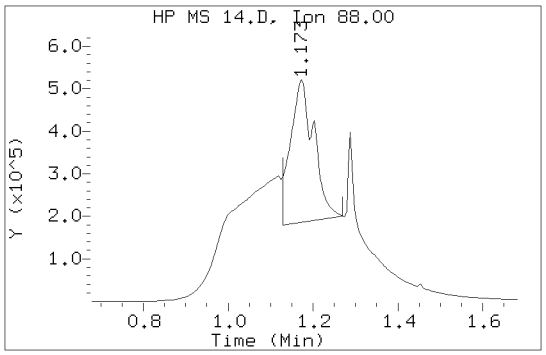

BEFORE

MASS
88
AREA
1285756
HEIGHT
334955
16-Jun-2023
15:06
ALSHS
Server




AFTER

MASS
88
AREA
1285756
HEIGHT
334955
29-Jun-2023
14:27
ALSHS
Ser



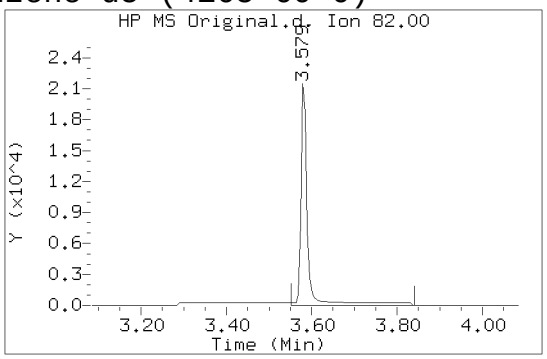
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

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

Reason Code:

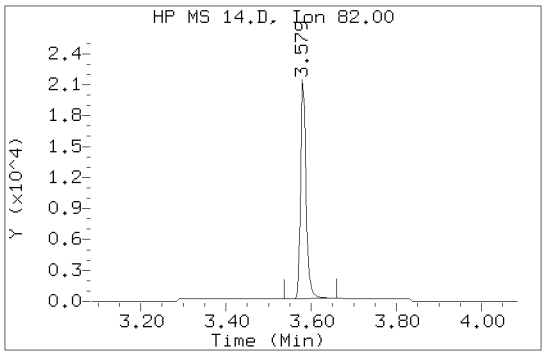
BEFORE

MASS
82
AREA
23560
HEIGHT
21488
16-Jun-2023
15:06
ALSHS
Server



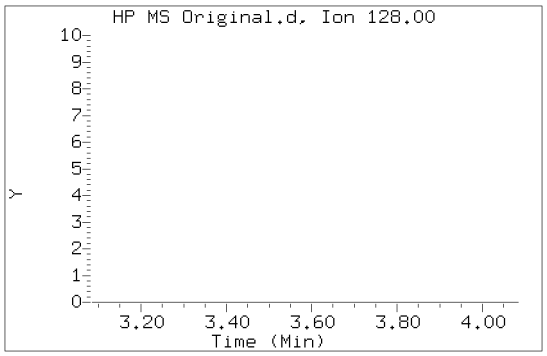

AFTER

MASS
82
AREA
19311
HEIGHT
21230
29-Jun-2023
14:27
ALSHS
Ser



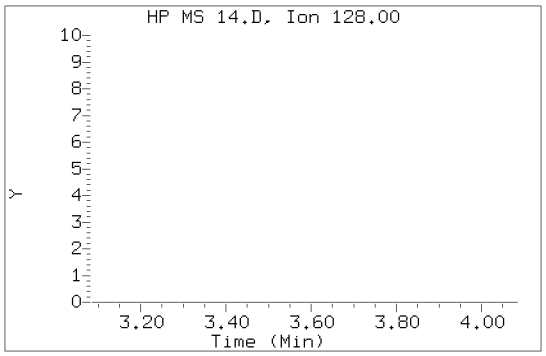

BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



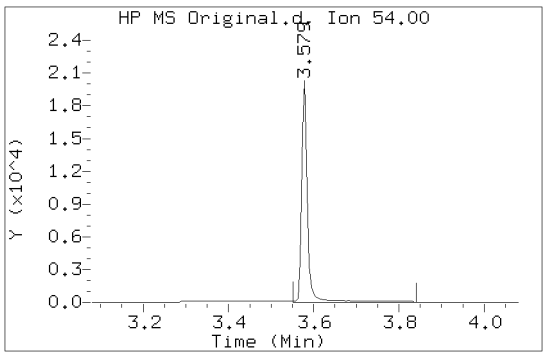

AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



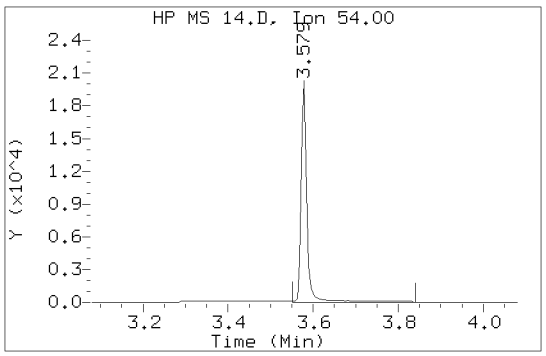

BEFORE

MASS
54
AREA
20065
HEIGHT
20304
16-Jun-2023
15:06
ALSHS
Server




AFTER

MASS
54
AREA
20065
HEIGHT
20304
29-Jun-2023
14:27
ALSHS
Ser

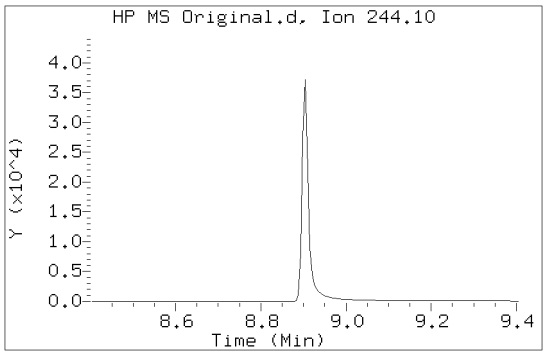



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

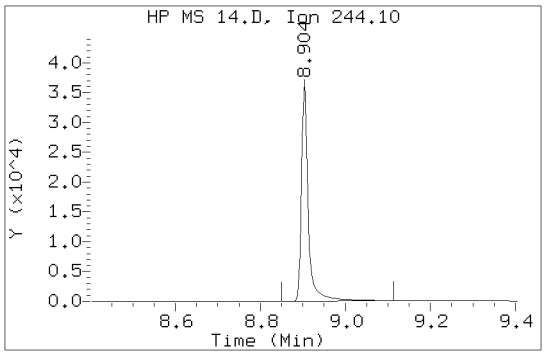
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server




AFTER

MASS
244.1
AREA
39805
HEIGHT
37107
29-Jun-2023
14:27
ALSHS
Ser



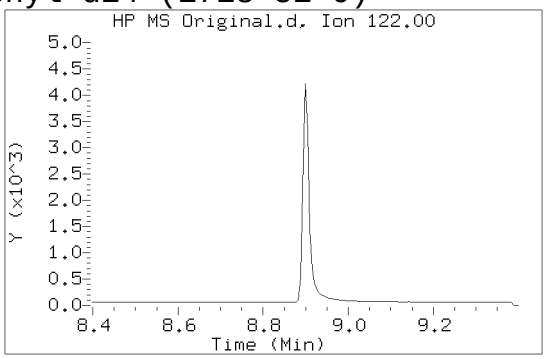
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

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

Reason Code:

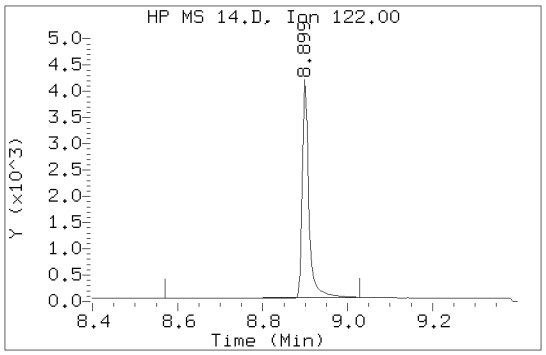
**BEFORE**

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



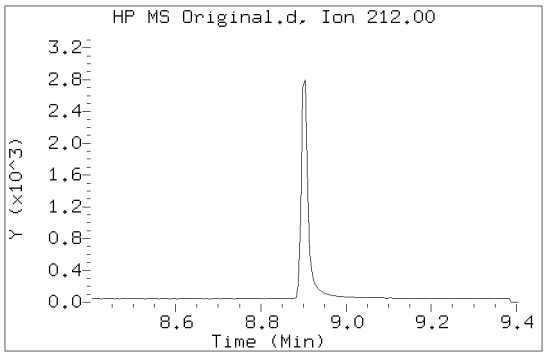

**AFTER**

MASS
122
AREA
4228
HEIGHT
4149
29-Jun-2023
14:27
ALSHS
Ser



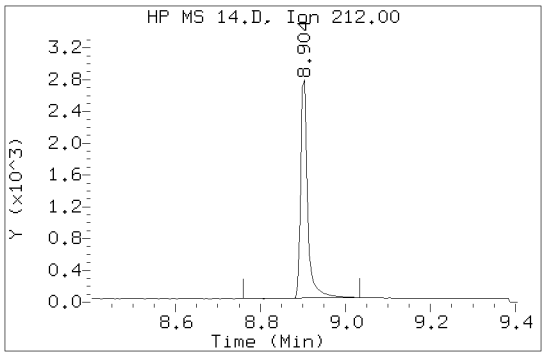

**BEFORE**

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server




**AFTER**

MASS
212
AREA
3105
HEIGHT
2745
29-Jun-2023
14:27
ALSHS
Ser

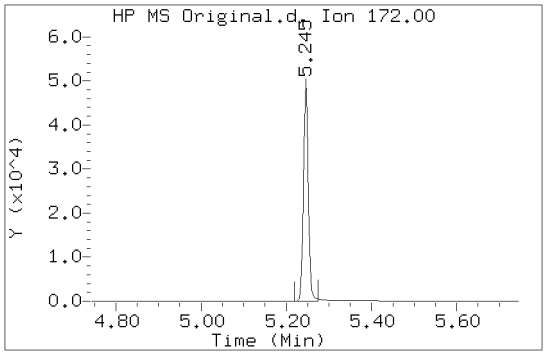



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

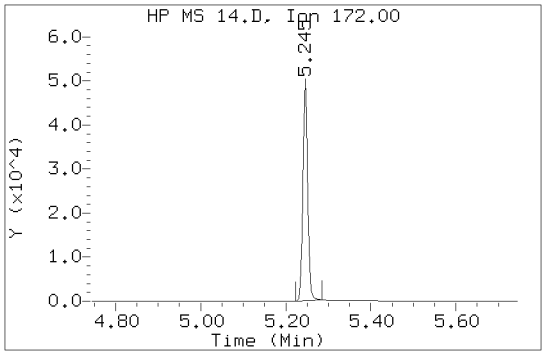
**BEFORE**

MASS
172
AREA
40002
HEIGHT
50410
16-Jun-2023
15:06
ALSHS
Server



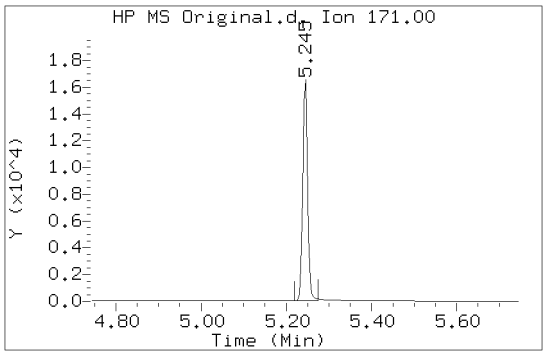

**AFTER**

MASS
172
AREA
39708
HEIGHT
50322
29-Jun-2023
14:27
ALSHS
Ser



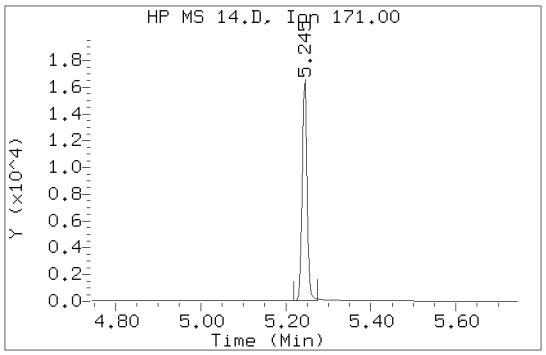

**BEFORE**

MASS
171
AREA
13389
HEIGHT
16514
16-Jun-2023
15:06
ALSHS
Server




**AFTER**

MASS
171
AREA
13389
HEIGHT
16514
29-Jun-2023
14:27
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Lab Smp Id: 14DXICAL-0.2 Client Smp ID: 14DXICAL-0.2
Inj Date : 16-JUN-2023 15:56
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.2RR
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 14:51 Cal File: 14.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.122 | 3.122 | (1.000) | 3731 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 4.220 | 4.220 | (1.000) | 12688 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.584 | 3.584 | (0.849) | 8839 | 0.20000 | 0.2304(AM) |
| * 86 Acenaphthene-d10 | 164 | 5.883 | 5.883 | (1.000) | 7256 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 5.245 | 5.245 | (0.891) | 18173 | 0.20000 | 0.2446(AM) |
| * 126 Phenanthrene-d10 | 188 | 7.322 | 7.322 | (1.000) | 14346 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 10.023 | 10.023 | (1.000) | 8796 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.904 | 8.904 | (0.888) | 17639 | 0.20000 | 0.2748(AM) |
| * 198 Perylene-d12 | 264 | 11.940 | 11.940 | (1.000) | 6565 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.460 | 1.460 | (0.468) | 2996 | 0.20000 | 0.2384(Q) |

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.

01196860

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D



Date : 16-JUN-2023 15:56

Client ID: 14DXICAL-0.2

Instrument: SV6.i

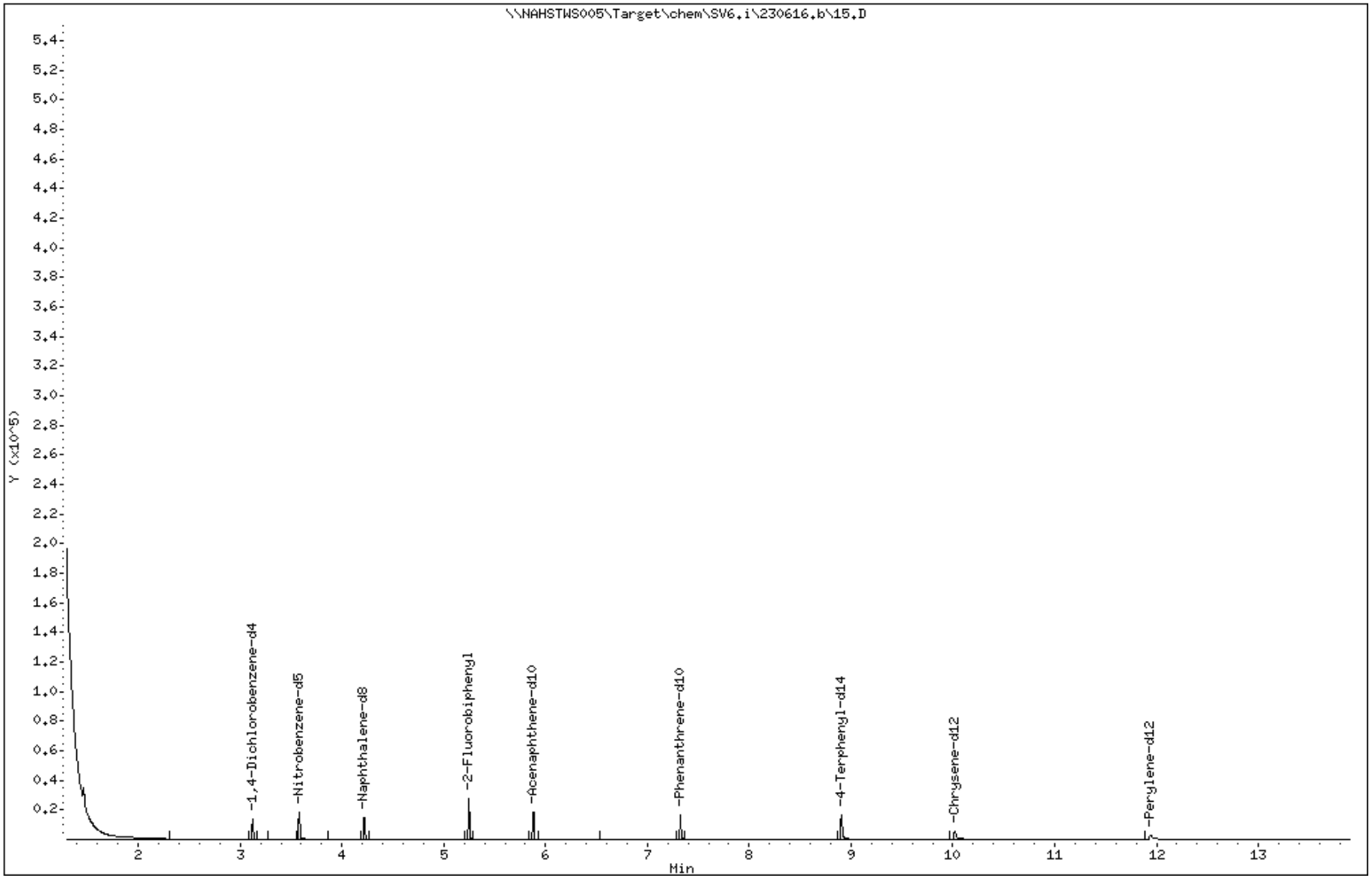
Sample Info: 14DXICAL-0.2RR

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



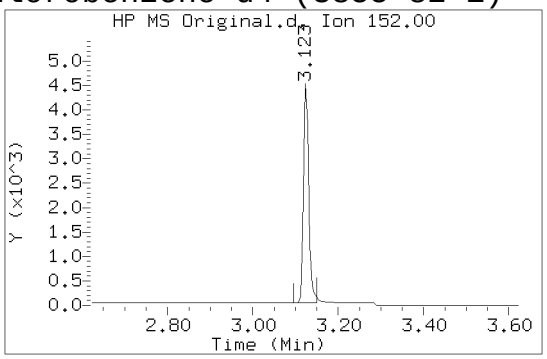
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

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

Reason Code:

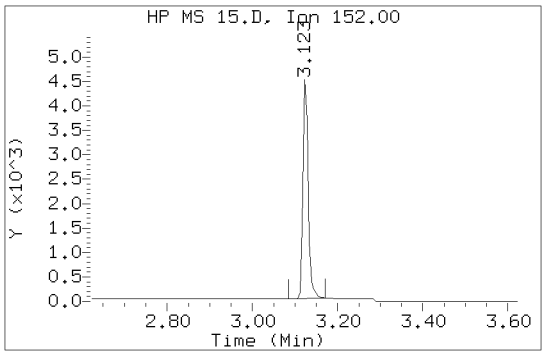
BEFORE

MASS
152
AREA
3749
HEIGHT
4489
16-Jun-2023
16:11
ALSHS
Server



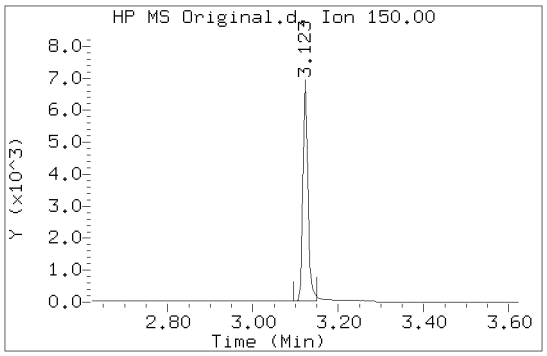

AFTER

MASS
152
AREA
3731
HEIGHT
4478
29-Jun-2023
14:27
ALSHS
Ser



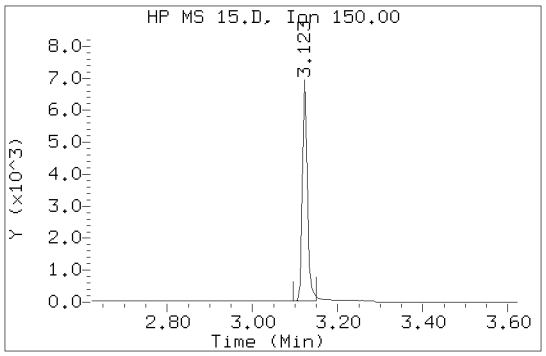

BEFORE

MASS
150
AREA
5426
HEIGHT
6903
16-Jun-2023
16:11
ALSHS
Server



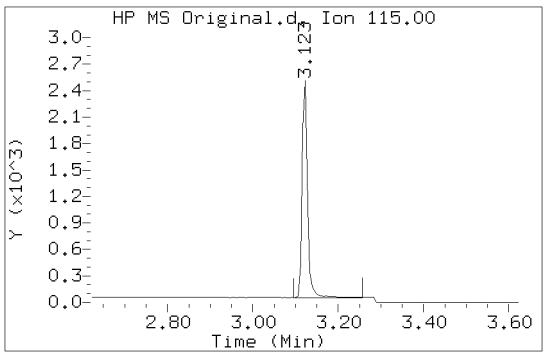

AFTER

MASS
150
AREA
5426
HEIGHT
6903
29-Jun-2023
14:27
ALSHS
Ser



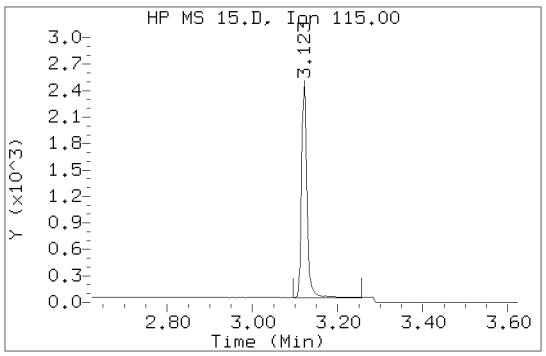

BEFORE

MASS
115
AREA
2094
HEIGHT
2459
16-Jun-2023
16:11
ALSHS
Server




AFTER

MASS
115
AREA
2094
HEIGHT
2459
29-Jun-2023
14:27
ALSHS
Ser

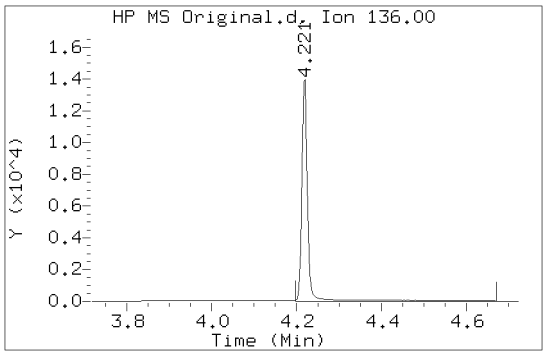



## Naphthalene-d8 (1146-65-2)

Reason Code:

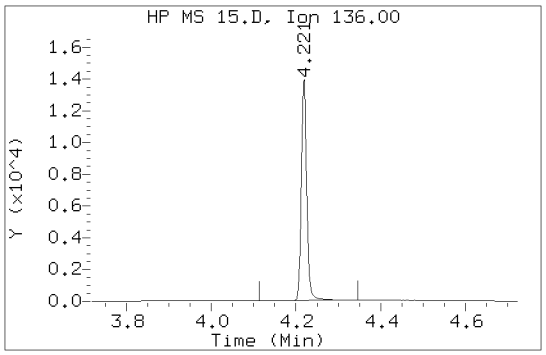
BEFORE

MASS
136
AREA
14465
HEIGHT
13959
16-Jun-2023
16:11
ALSHS
Server




AFTER

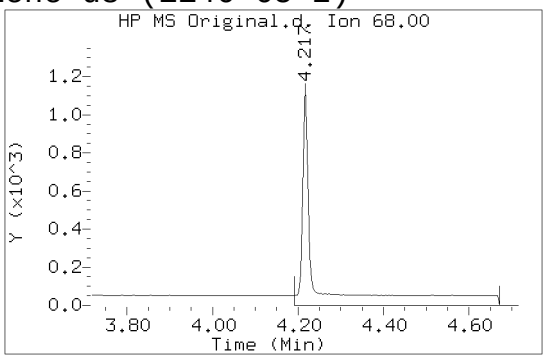
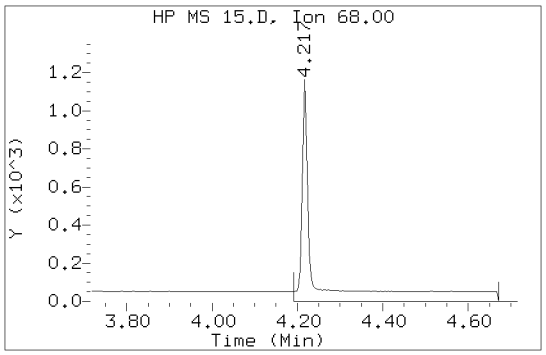
MASS
136
AREA
12688
HEIGHT
13897
29-Jun-2023
14:27
ALSHS
Ser



Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

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

Reason Code:

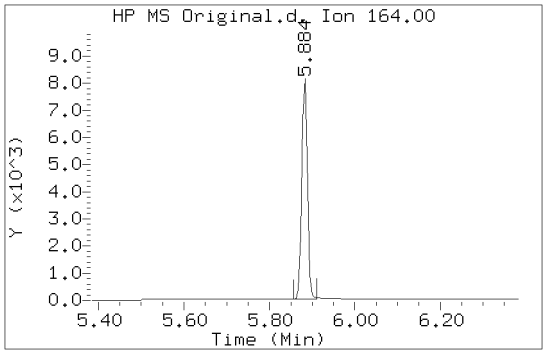
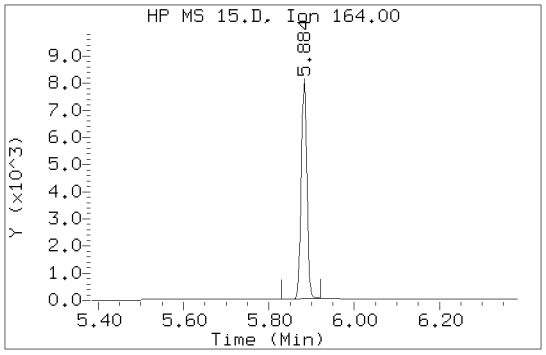
| BEFORE | | AFTER | |
|---|---|---|---|
| MASS | | MASS | |
| 68 |  | 68 |  |
| AREA | | AREA | |
| 2461 | | 2461 | |
| HEIGHT | | HEIGHT | |
| 1163 | | 1163 | |
| 16-Jun-2023 | | 29-Jun-2023 | |
| 16:11 | | 14:27 | |
| ALSHS | | ALSHS | |
| Server | | Ser | |





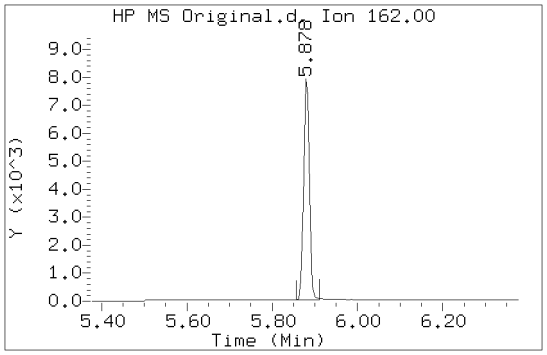
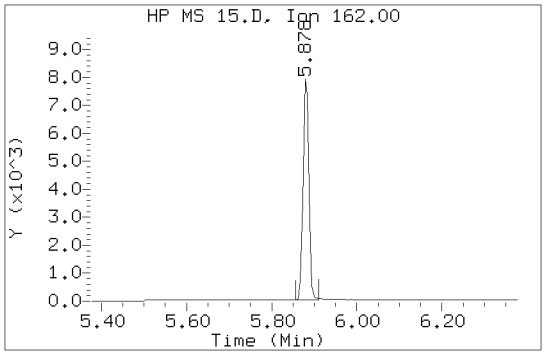
## Acenaphthene-d10 (15067-26-2)

Reason Code:

| BEFORE | | AFTER | |
|---|---|---|---|
| MASS | | MASS | |
| 164 |  | 164 |  |
| AREA | | AREA | |
| 7305 | | 7256 | |
| HEIGHT | | HEIGHT | |
| 8114 | | 8100 | |
| 16-Jun-2023 | | 29-Jun-2023 | |
| 16:11 | | 14:27 | |
| ALSHS | | ALSHS | |
| Server | | Ser | |

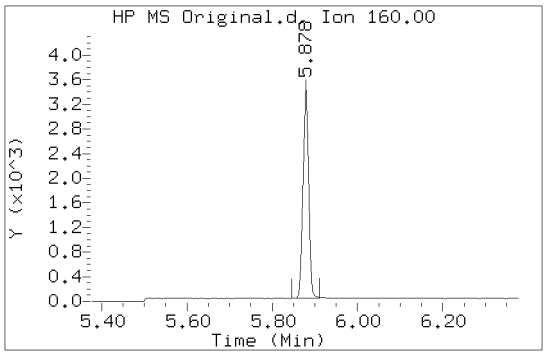
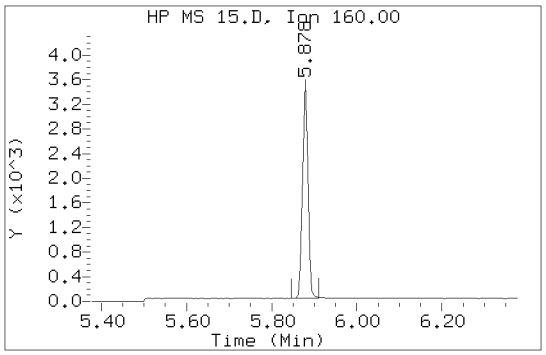




| BEFORE | | AFTER | |
|---|---|---|---|
| MASS | | MASS | |
| 162 |  | 162 |  |
| AREA | | AREA | |
| 7389 | | 7389 | |
| HEIGHT | | HEIGHT | |
| 7893 | | 7893 | |
| 16-Jun-2023 | | 29-Jun-2023 | |
| 16:11 | | 14:27 | |
| ALSHS | | ALSHS | |
| Server | | Ser | |





| BEFORE | | AFTER | |
|---|---|---|---|
| MASS | | MASS | |
| 160 |  | 160 |  |
| AREA | | AREA | |
| 3110 | | 3110 | |
| HEIGHT | | HEIGHT | |
| 3554 | | 3554 | |
| 16-Jun-2023 | | 29-Jun-2023 | |
| 16:11 | | 14:27 | |
| ALSHS | | ALSHS | |
| Server | | Ser | |

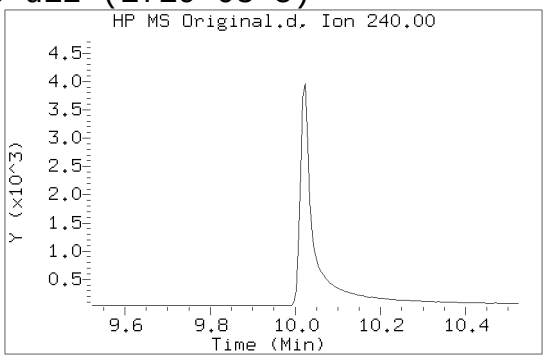
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

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

Reason Code:

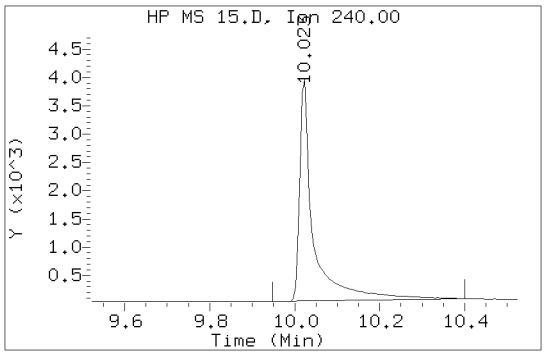
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



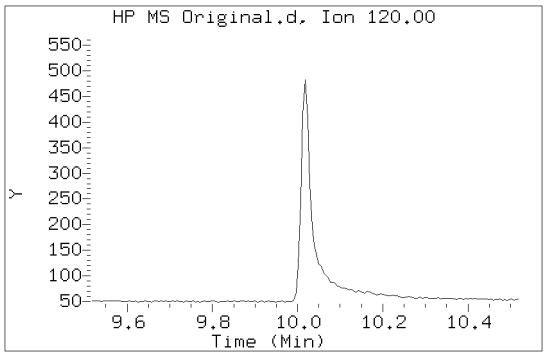

**AFTER**

MASS
240
AREA
8796
HEIGHT
3907
29-Jun-2023
14:27
ALSHS
Ser



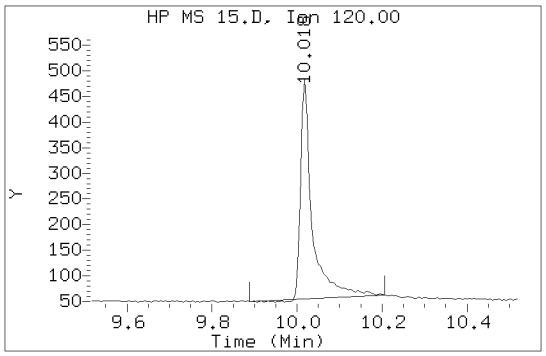

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



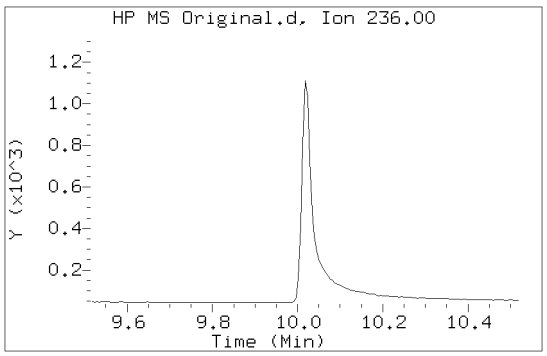

**AFTER**

MASS
120
AREA
798
HEIGHT
426
29-Jun-2023
14:27
ALSHS
Ser



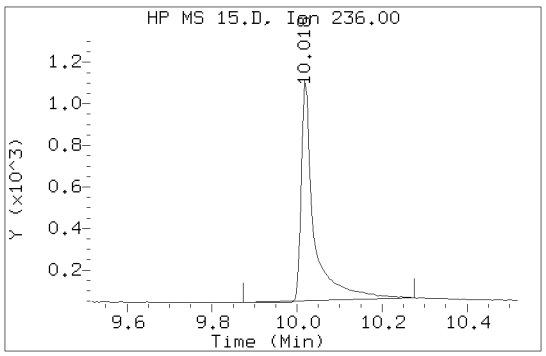

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server




**AFTER**

MASS
236
AREA
2198
HEIGHT
1058
29-Jun-2023
14:27
ALSHS
Ser

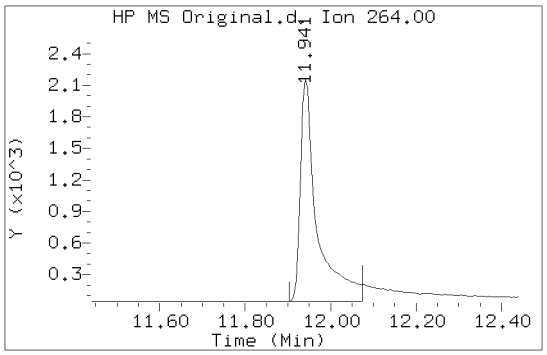



## Perylene-d12 (1520-96-3)

Reason Code:

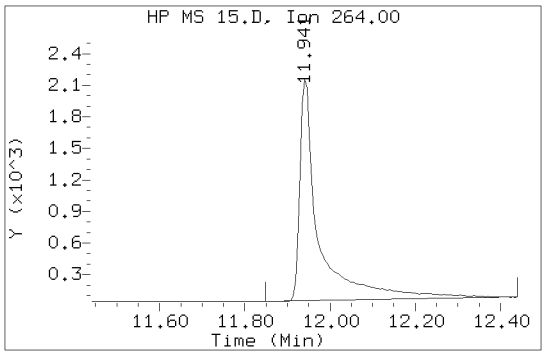
**BEFORE**

MASS
264
AREA
5713
HEIGHT
2106
16-Jun-2023
16:11
ALSHS
Server




**AFTER**

MASS
264
AREA
6565
HEIGHT
2100
29-Jun-2023
14:27
ALSHS
Ser



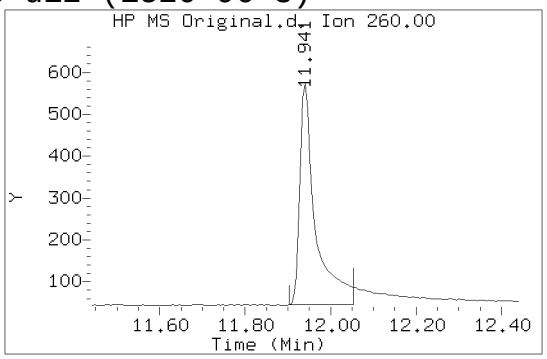
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

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

Reason Code:

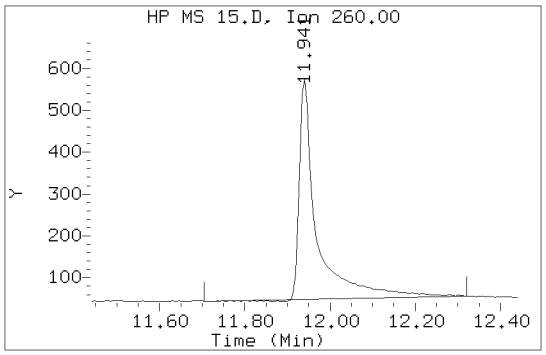
**BEFORE**

MASS
260
AREA
1348
HEIGHT
528
16-Jun-2023
16:11
ALSHS
Server



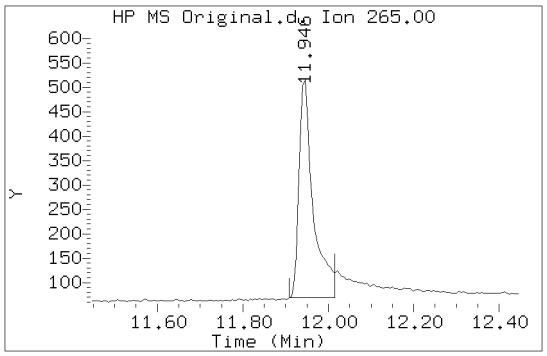

**AFTER**

MASS
260
AREA
1491
HEIGHT
524
29-Jun-2023
14:27
ALSHS
Ser



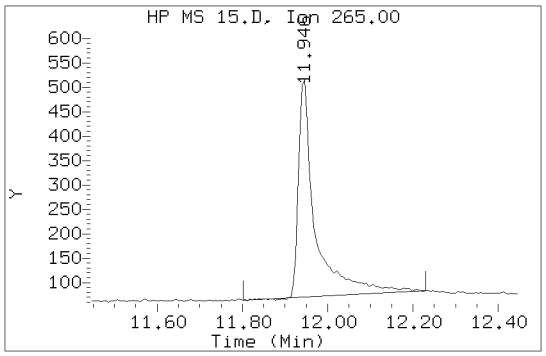

**BEFORE**

MASS
265
AREA
1037
HEIGHT
446
16-Jun-2023
16:11
ALSHS
Server




**AFTER**

MASS
265
AREA
1210
HEIGHT
444
29-Jun-2023
14:27
ALSHS
Ser

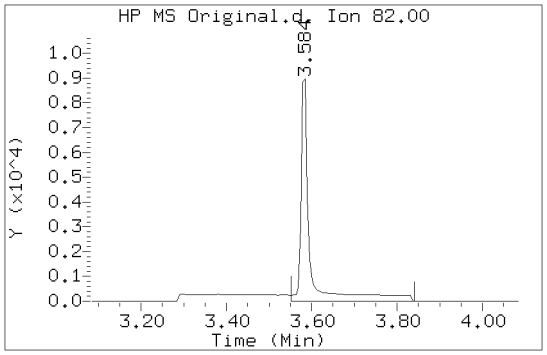



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

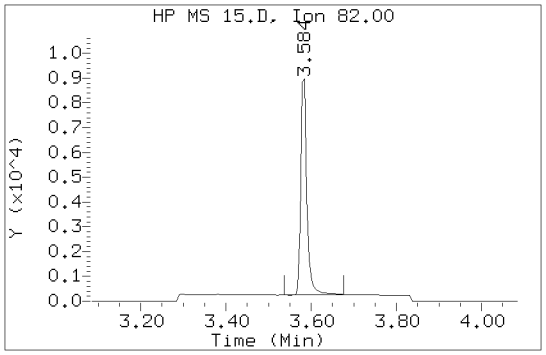
**BEFORE**

MASS
82
AREA
13113
HEIGHT
8968
16-Jun-2023
16:11
ALSHS
Server



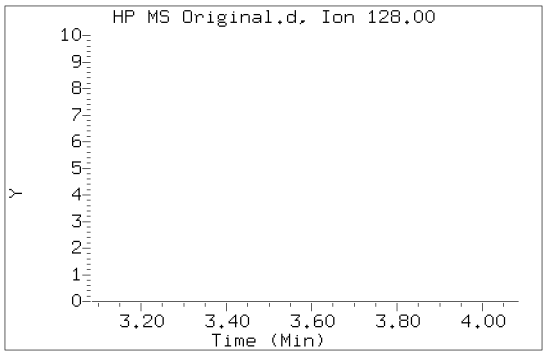

**AFTER**

MASS
82
AREA
8839
HEIGHT
8709
29-Jun-2023
14:27
ALSHS
Ser



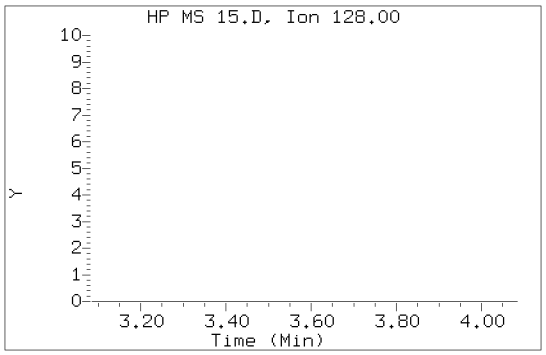

**BEFORE**

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server




**AFTER**

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



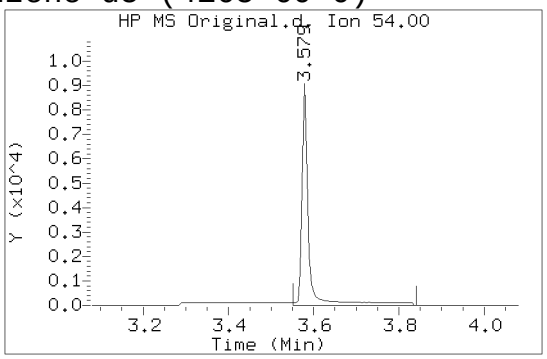
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

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

Reason Code:

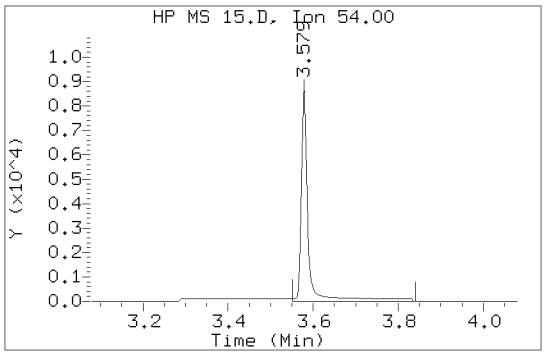
**BEFORE**

MASS
54
AREA
10106
HEIGHT
9078
16-Jun-2023
16:11
ALSHS
Server




**AFTER**

MASS
54
AREA
10106
HEIGHT
9078
29-Jun-2023
14:27
ALSHS
Ser

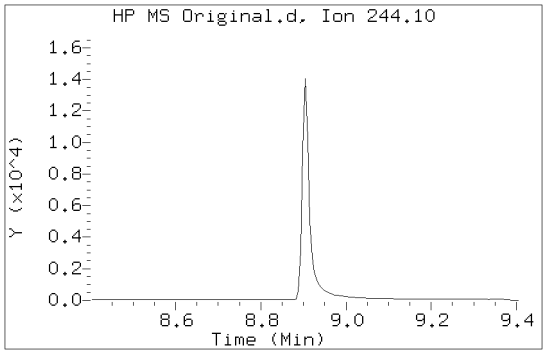



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

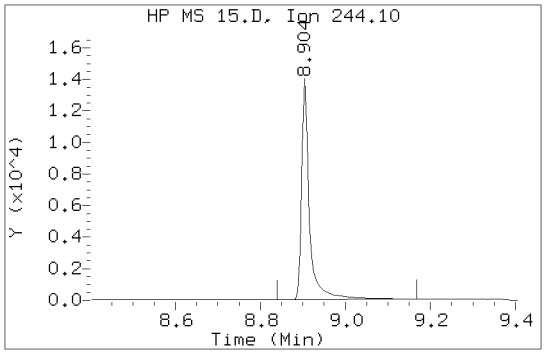
**BEFORE**

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



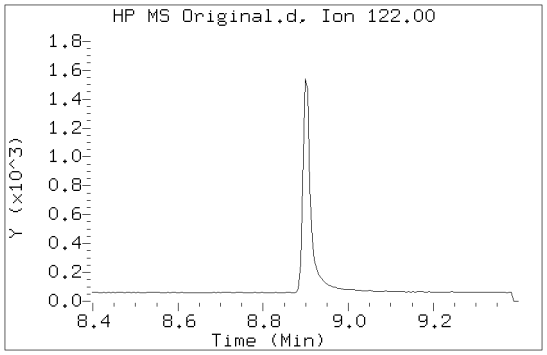

**AFTER**

MASS
244.1
AREA
17639
HEIGHT
13989
29-Jun-2023
14:27
ALSHS
Ser



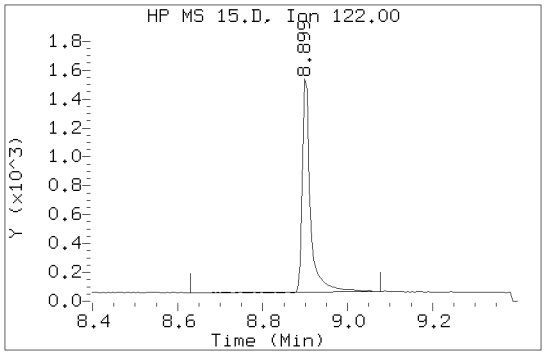

**BEFORE**

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



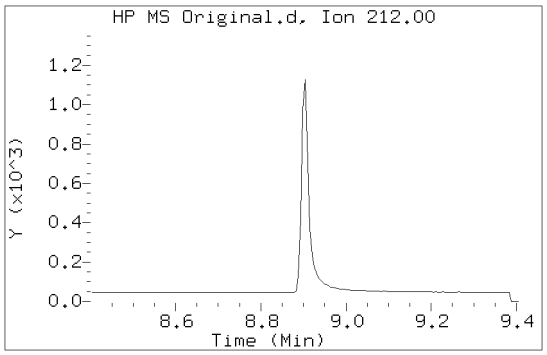

**AFTER**

MASS
122
AREA
1896
HEIGHT
1474
29-Jun-2023
14:27
ALSHS
Ser



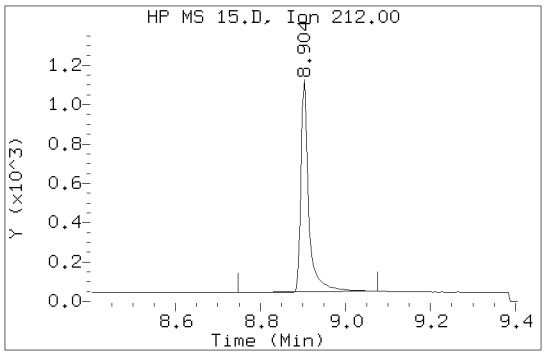

**BEFORE**

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server




**AFTER**

MASS
212
AREA
1371
HEIGHT
1079
29-Jun-2023
14:27
ALSHS
Ser



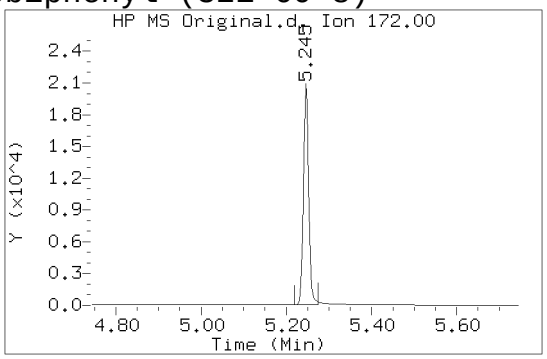
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

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

Reason Code:

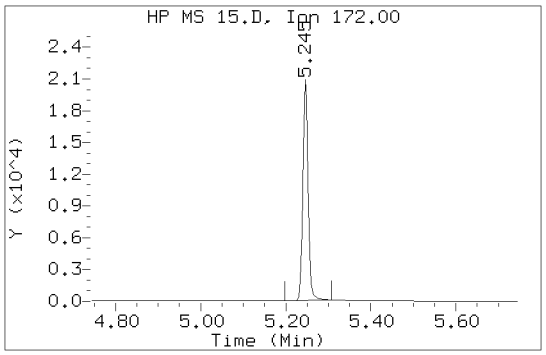
BEFORE

MASS
172
AREA
18197
HEIGHT
20880
16-Jun-2023
16:11
ALSHS
Server



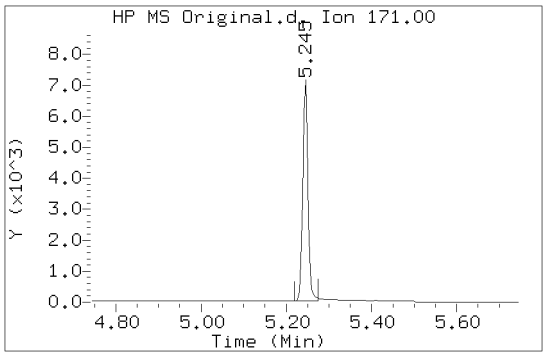

AFTER

MASS
172
AREA
18173
HEIGHT
20843
29-Jun-2023
14:27
ALSHS
Ser



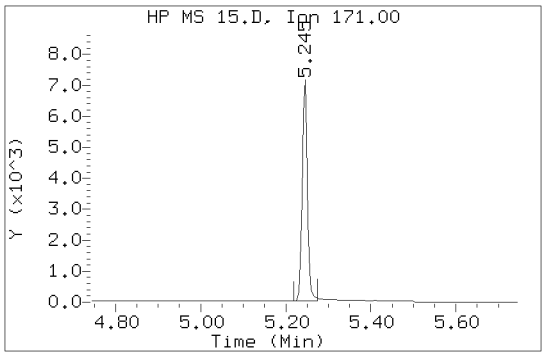

BEFORE

MASS
171
AREA
6120
HEIGHT
7129
16-Jun-2023
16:11
ALSHS
Server




AFTER

MASS
171
AREA
6120
HEIGHT
7129
29-Jun-2023
14:27
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Lab Smp Id: 14DXICV-0.08 Client Smp ID: 14DXICV-0.08
Inj Date : 16-JUN-2023 16:22
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 16 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 3.128 | 3.122 | (1.000) | 5295 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 4.220 | 4.220 | (1.000) | 17725 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.584 | 3.584 | (0.849) | 3797 | 0.07086 | 0.07086(M) |
| * 86 Acenaphthene-d10 | 164 | 5.883 | 5.883 | (1.000) | 10379 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 5.248 | 5.245 | (0.892) | 8542 | 0.08036 | 0.08036(M) |
| * 126 Phenanthrene-d10 | 188 | 7.328 | 7.322 | (1.000) | 20505 | 0.10000 | (M) |
| * 182 Chrysene-d12 | 240 | 10.023 | 10.023 | (1.000) | 12662 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.909 | 8.904 | (0.889) | 7743 | 0.08379 | 0.08379(M) |
| * 198 Perylene-d12 | 264 | 11.945 | 11.940 | (1.000) | 10635 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.464 | 1.460 | (0.468) | 1261 | 0.07070 | 0.07070(M) |

QC Flag Legend

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

01196868

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D

Page 1

Date : 16-JUN-2023 16:22

Client ID: 14DXICV-0.08

Instrument: SV6.i

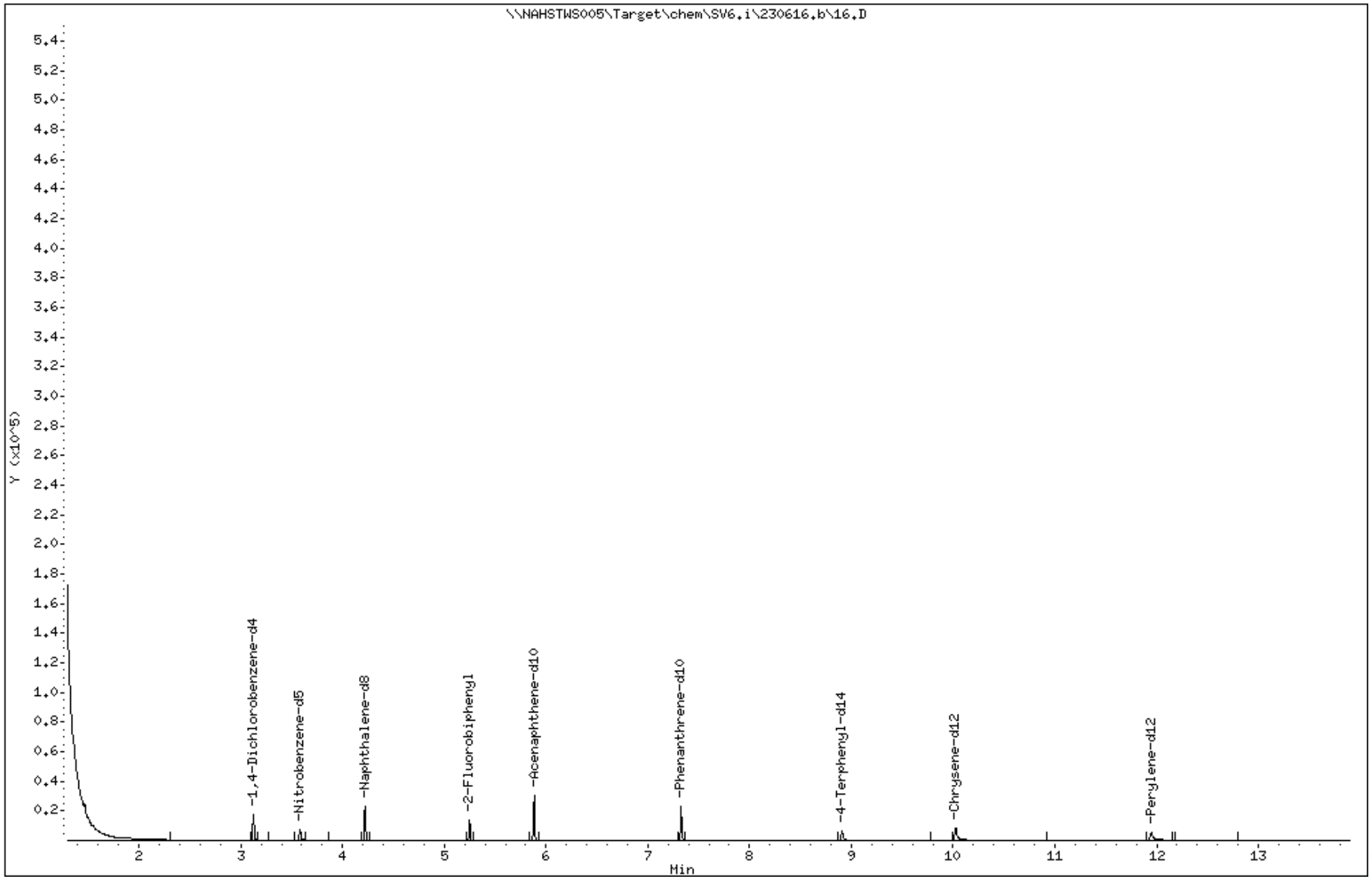
Sample Info: 14DXICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



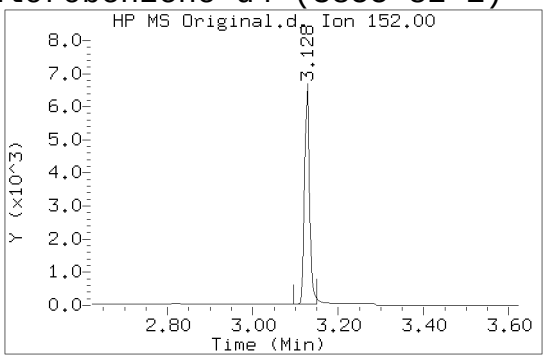
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

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

Reason Code:

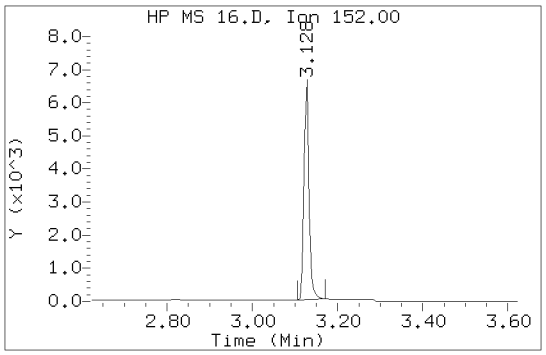
BEFORE

MASS
152
AREA
5292
HEIGHT
6650
16-Jun-2023
16:37
ALSHS
Server



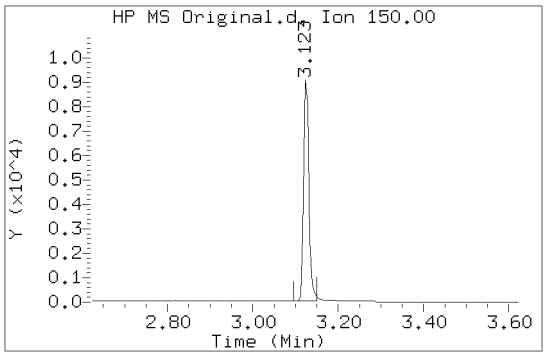

AFTER

MASS
152
AREA
5295
HEIGHT
6641
29-Jun-2023
14:27
ALSHS
Ser



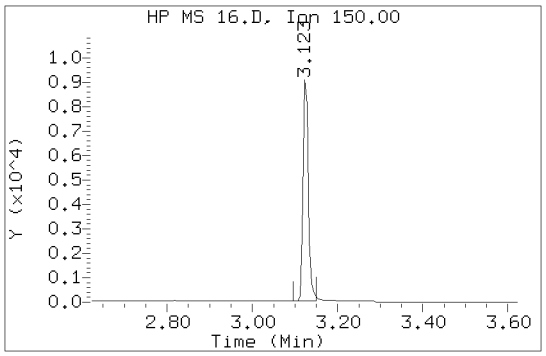

BEFORE

MASS
150
AREA
7668
HEIGHT
9050
16-Jun-2023
16:37
ALSHS
Server



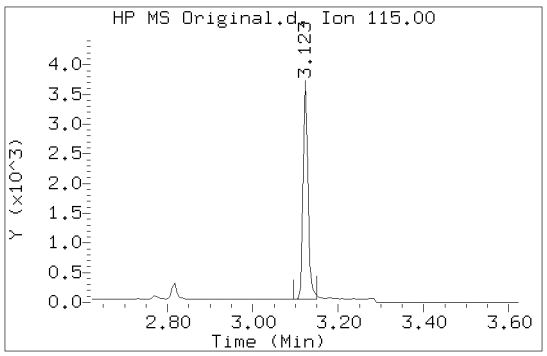

AFTER

MASS
150
AREA
7668
HEIGHT
9050
29-Jun-2023
14:27
ALSHS
Ser



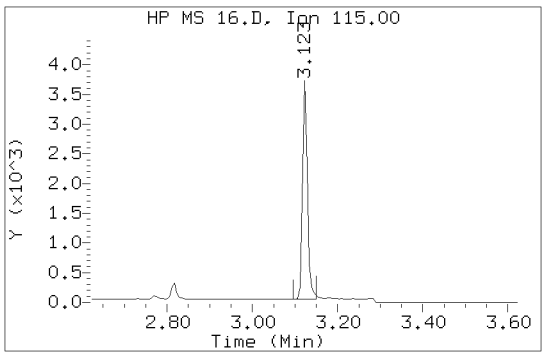

BEFORE

MASS
115
AREA
2824
HEIGHT
3676
16-Jun-2023
16:37
ALSHS
Server




AFTER

MASS
115
AREA
2824
HEIGHT
3676
29-Jun-2023
14:27
ALSHS
Ser

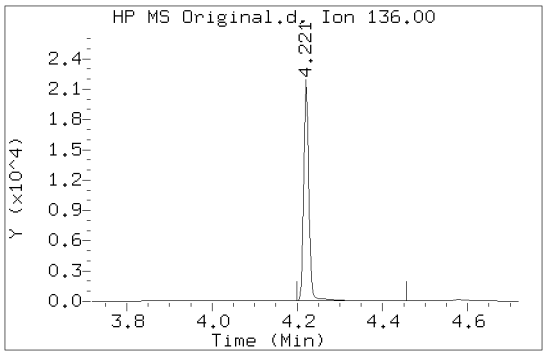



## Naphthalene-d8 (1146-65-2)

Reason Code:

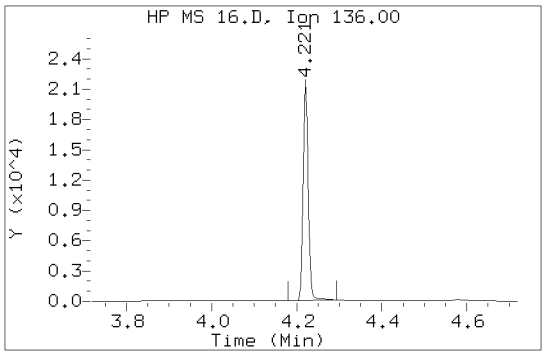
BEFORE

MASS
136
AREA
18147
HEIGHT
21880
16-Jun-2023
16:37
ALSHS
Server




AFTER

MASS
136
AREA
17725
HEIGHT
21858
29-Jun-2023
14:27
ALSHS
Ser



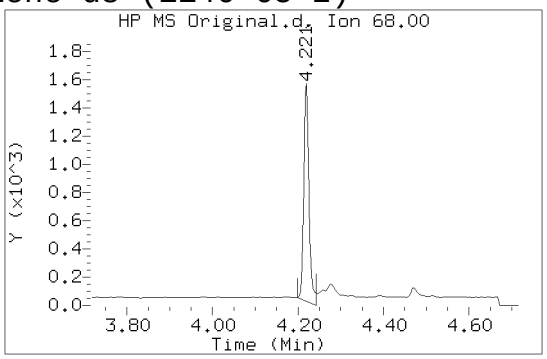
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

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

Reason Code:

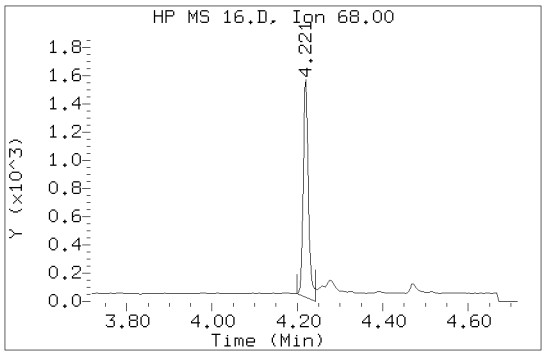
**BEFORE**

MASS
68
AREA
1351
HEIGHT
1544
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
68
AREA
1351
HEIGHT
1544
29-Jun-2023
14:27
ALSHS
Ser

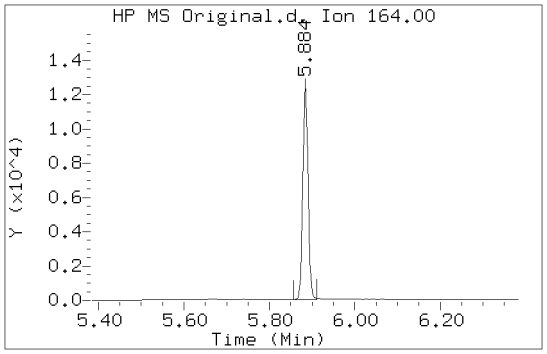



## Acenaphthene-d10 (15067-26-2)

Reason Code:

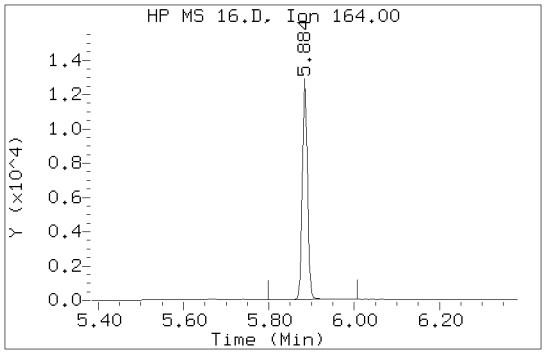
**BEFORE**

MASS
164
AREA
10322
HEIGHT
12879
16-Jun-2023
16:37
ALSHS
Server



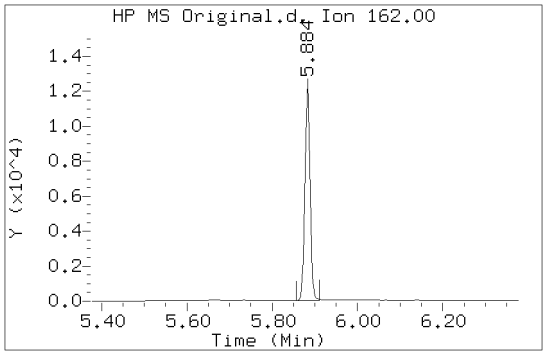

**AFTER**

MASS
164
AREA
10379
HEIGHT
12877
29-Jun-2023
14:27
ALSHS
Ser



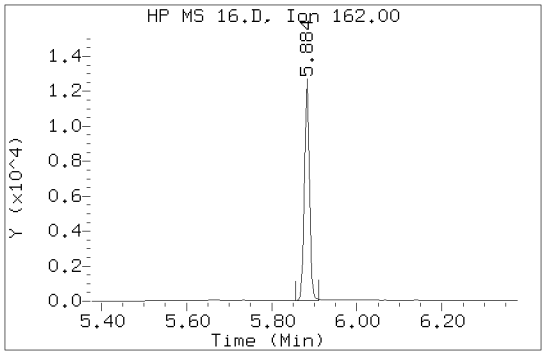

**BEFORE**

MASS
162
AREA
10387
HEIGHT
12657
16-Jun-2023
16:37
ALSHS
Server



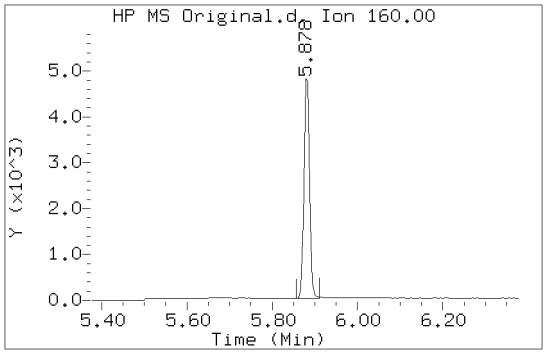

**AFTER**

MASS
162
AREA
10387
HEIGHT
12657
29-Jun-2023
14:27
ALSHS
Ser



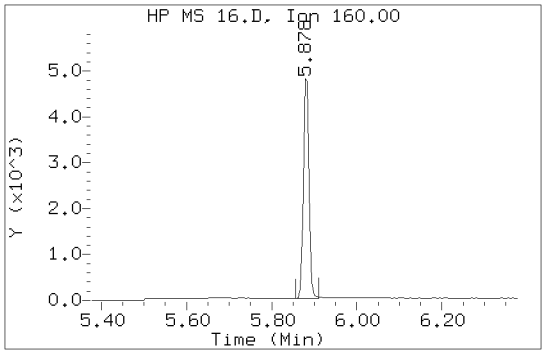

**BEFORE**

MASS
160
AREA
4356
HEIGHT
4785
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
160
AREA
4356
HEIGHT
4785
29-Jun-2023
14:27
ALSHS
Ser



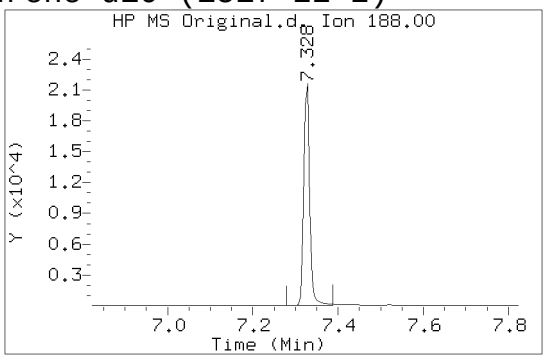
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

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

Reason Code:

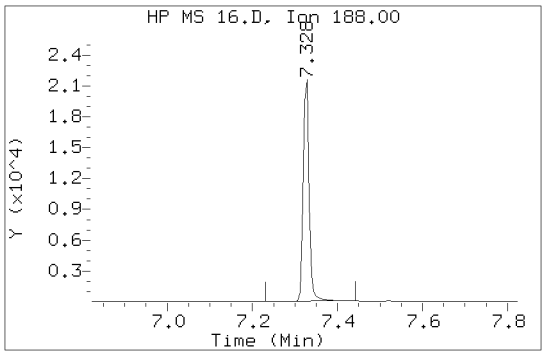
**BEFORE**

MASS
188
AREA
20554
HEIGHT
21579
16-Jun-2023
16:37
ALSHS
Server



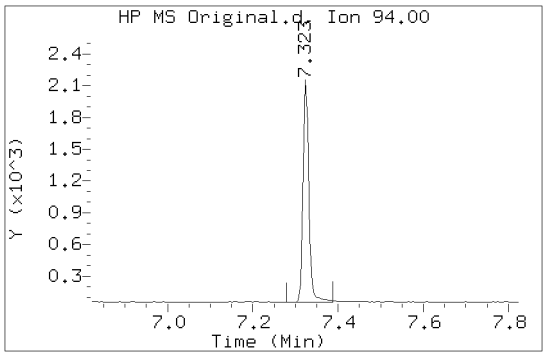

**AFTER**

MASS
188
AREA
20505
HEIGHT
21562
29-Jun-2023
14:27
ALSHS
Ser



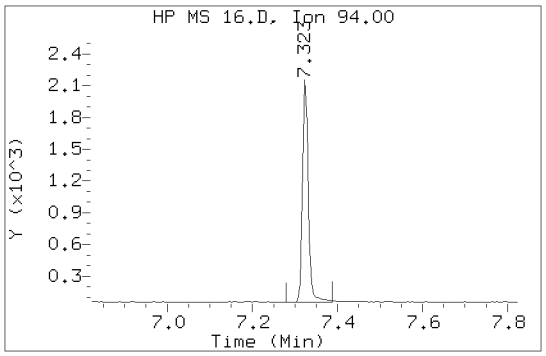

**BEFORE**

MASS
94
AREA
1950
HEIGHT
2099
16-Jun-2023
16:37
ALSHS
Server



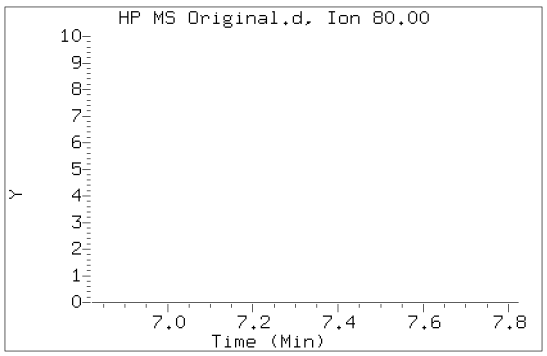

**AFTER**

MASS
94
AREA
1950
HEIGHT
2099
29-Jun-2023
14:27
ALSHS
Ser



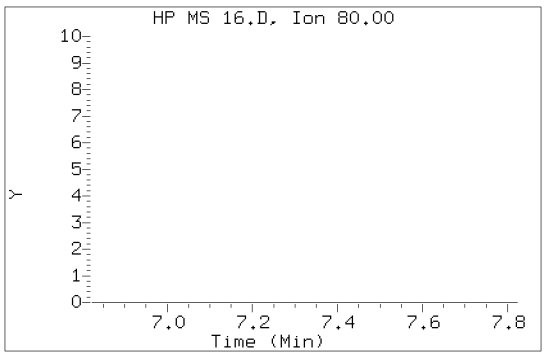

**BEFORE**

MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser

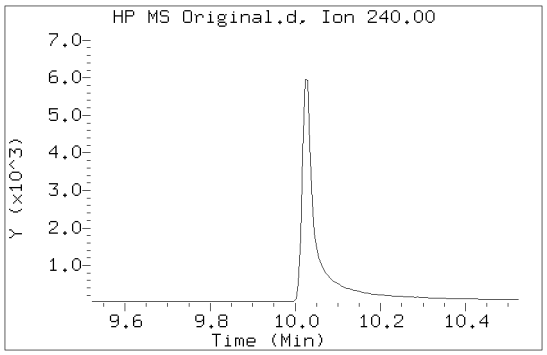



## Chrysene-d12 (1719-03-5)

Reason Code:

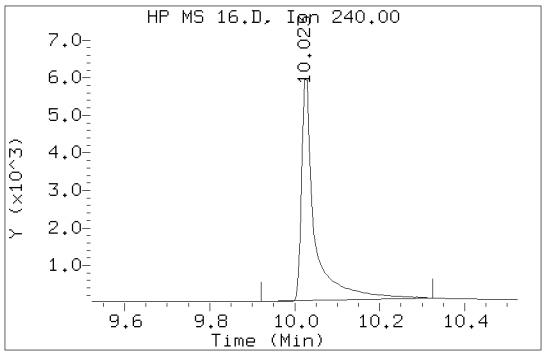
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
240
AREA
12662
HEIGHT
5881
29-Jun-2023
14:27
ALSHS
Ser

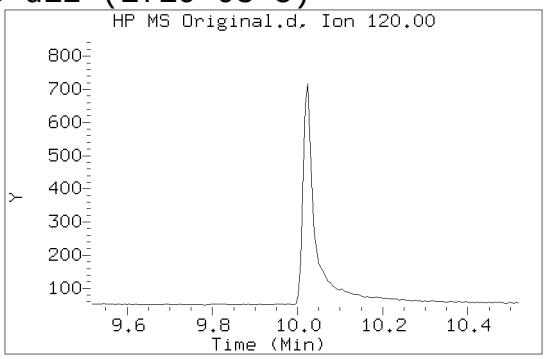


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

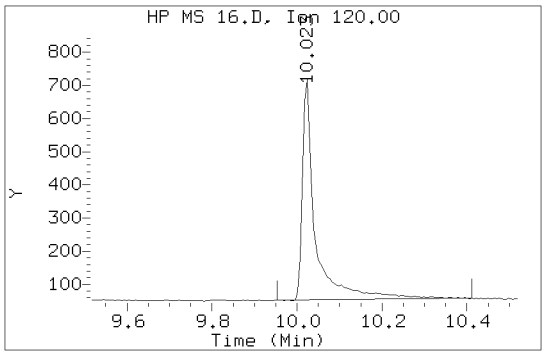
## Chrysene-d12 (1719-03-5)

Reason Code:

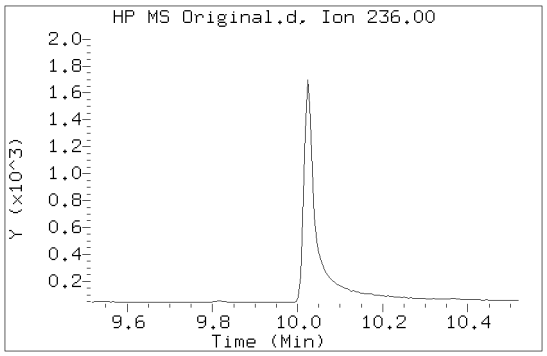
BEFORE
MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



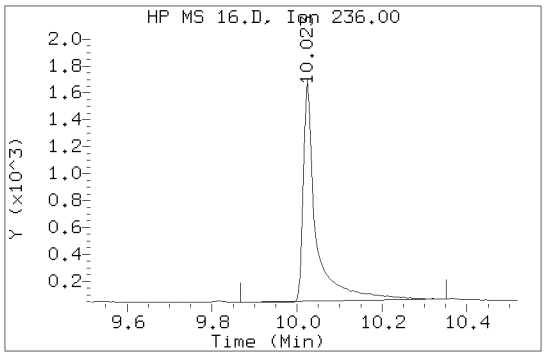

AFTER
MASS
120
AREA
1417
HEIGHT
664
29-Jun-2023
14:27
ALSHS
Ser




BEFORE
MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



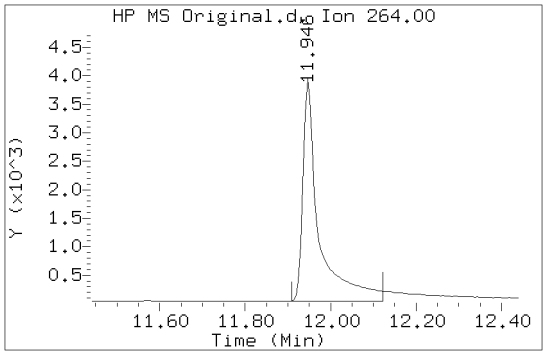

AFTER
MASS
236
AREA
3367
HEIGHT
1641
29-Jun-2023
14:27
ALSHS
Ser



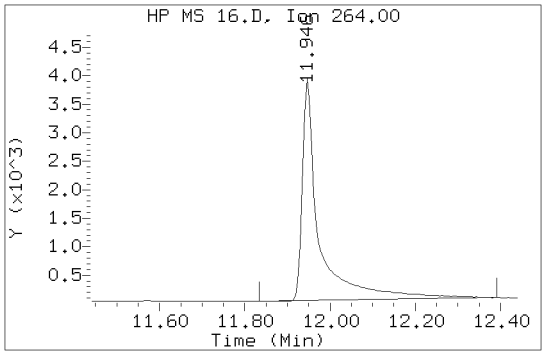

## Perylene-d12 (1520-96-3)

Reason Code:

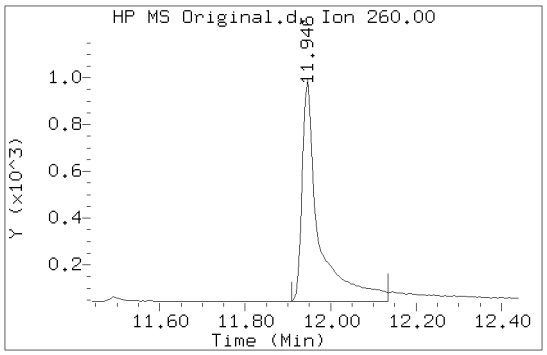
BEFORE
MASS
264
AREA
10066
HEIGHT
3896
16-Jun-2023
16:37
ALSHS
Server



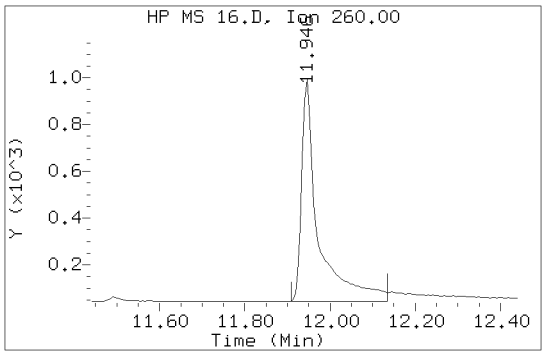

AFTER
MASS
264
AREA
10635
HEIGHT
3885
29-Jun-2023
14:27
ALSHS
Ser




BEFORE
MASS
260
AREA
2544
HEIGHT
947
16-Jun-2023
16:37
ALSHS
Server




AFTER
MASS
260
AREA
2544
HEIGHT
947
29-Jun-2023
14:27
ALSHS
Ser



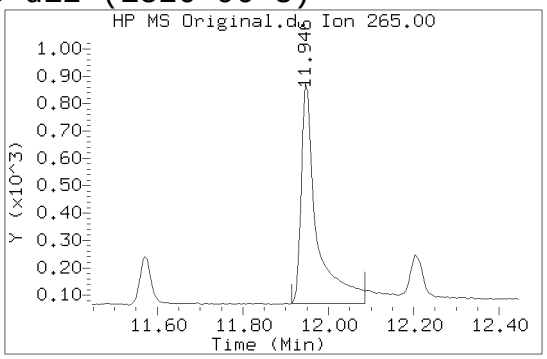
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

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

Reason Code:

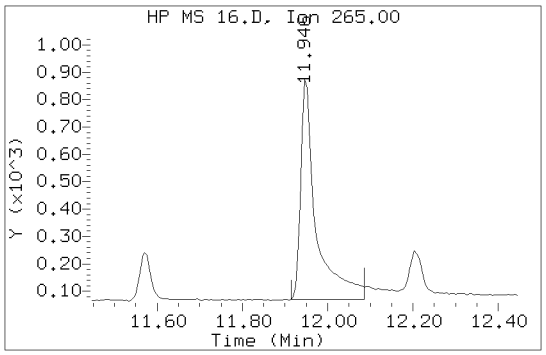
**BEFORE**

MASS
265
AREA
2015
HEIGHT
803
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
265
AREA
2015
HEIGHT
803
29-Jun-2023
14:27
ALSHS
Ser

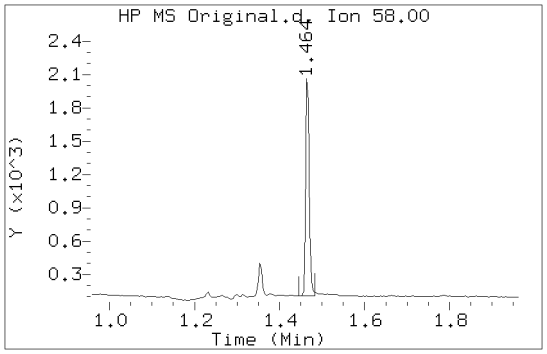



## 1,4-Dioxane ()

Reason Code:

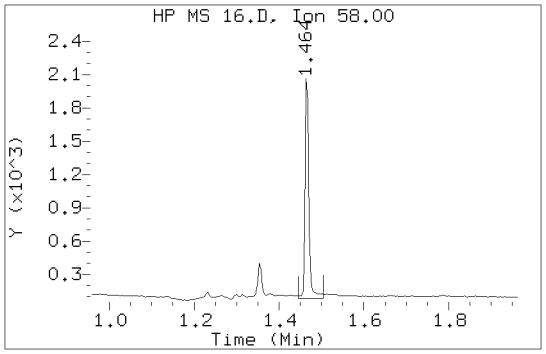
**BEFORE**

MASS
58
AREA
1149
HEIGHT
1956
16-Jun-2023
16:37
ALSHS
Server



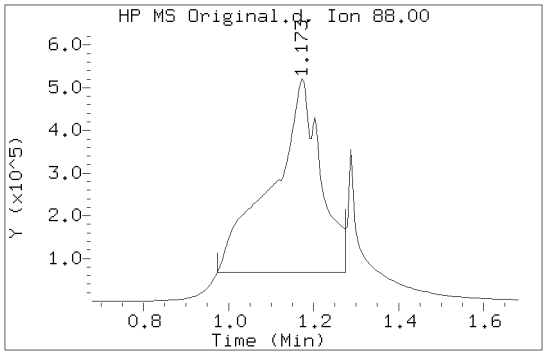

**AFTER**

MASS
58
AREA
1261
HEIGHT
1979
29-Jun-2023
14:27
ALSHS
Ser



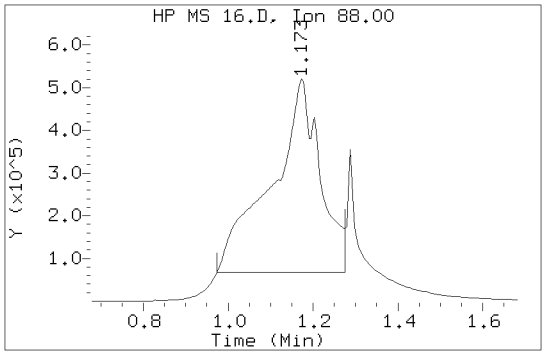

**BEFORE**

MASS
88
AREA
3609729
HEIGHT
452352
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
88
AREA
3609729
HEIGHT
452352
29-Jun-2023
14:27
ALSHS
Ser

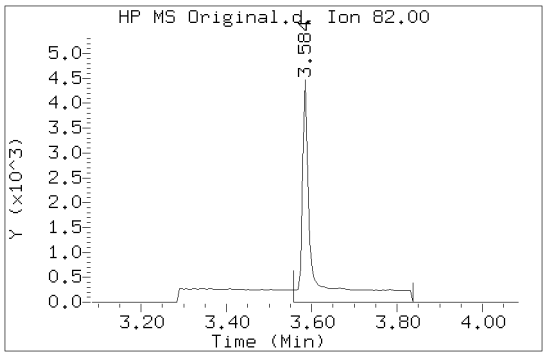



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

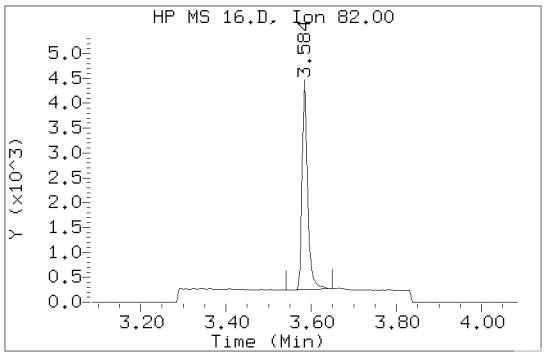
**BEFORE**

MASS
82
AREA
8001
HEIGHT
4469
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
82
AREA
3797
HEIGHT
4214
29-Jun-2023
14:27
ALSHS
Ser



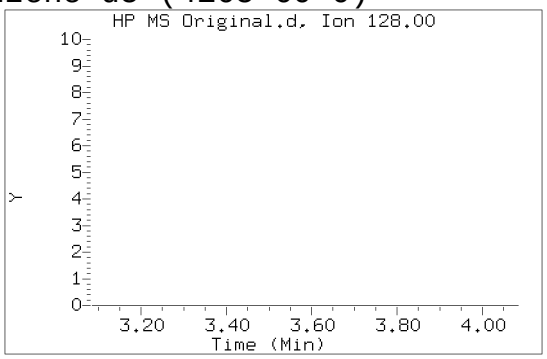
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

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

Reason Code:

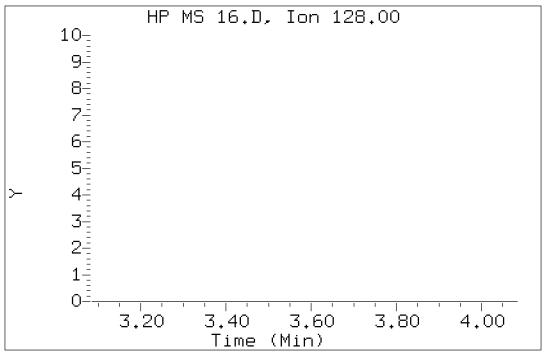
**BEFORE**

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



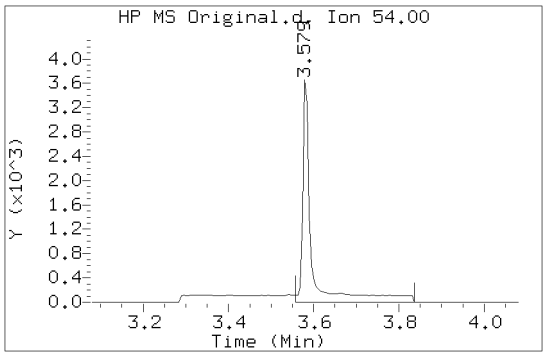

**AFTER**

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



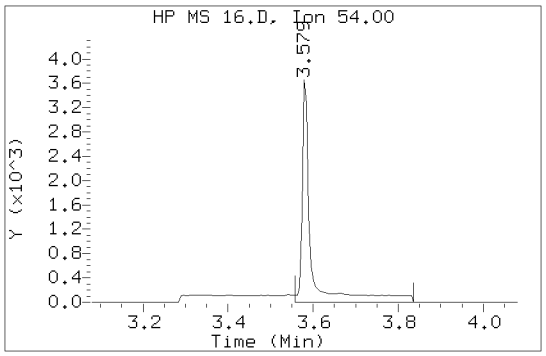

**BEFORE**

MASS
54
AREA
5382
HEIGHT
3655
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
54
AREA
5382
HEIGHT
3655
29-Jun-2023
14:27
ALSHS
Ser

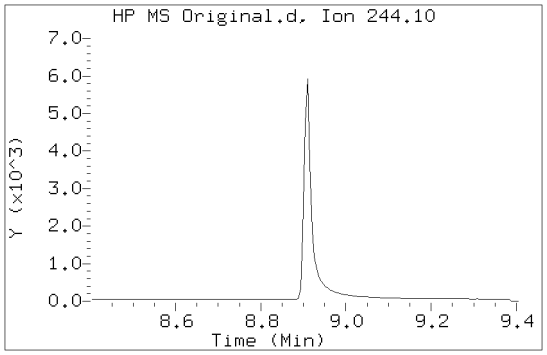



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

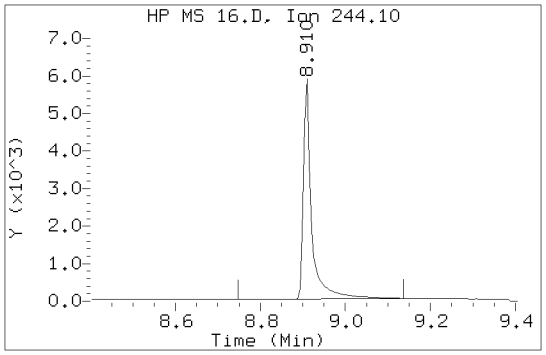
**BEFORE**

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



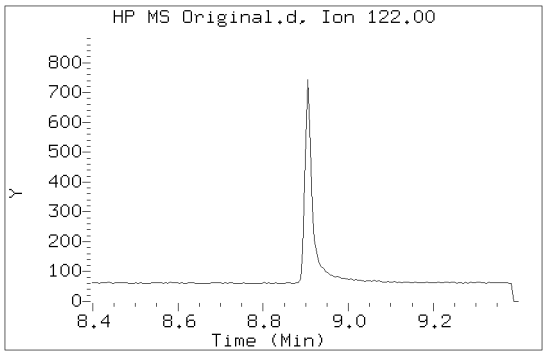

**AFTER**

MASS
244.1
AREA
7743
HEIGHT
5864
29-Jun-2023
14:27
ALSHS
Ser



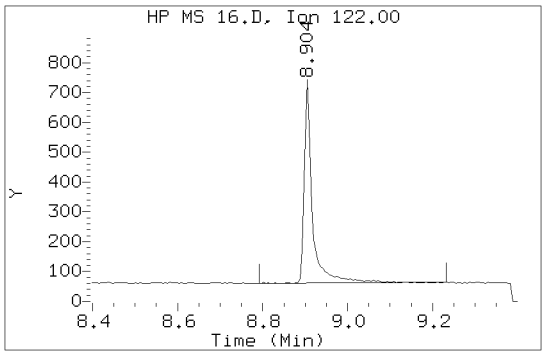

**BEFORE**

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
122
AREA
889
HEIGHT
681
29-Jun-2023
14:27
ALSHS
Ser



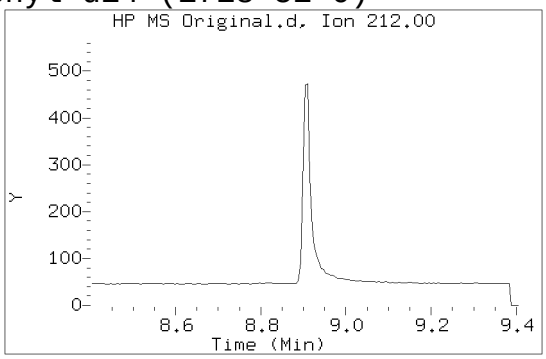
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

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

Reason Code:

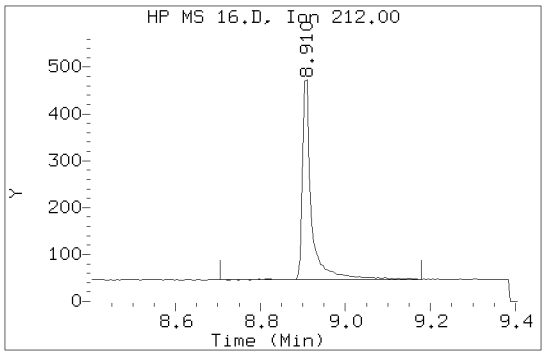
**BEFORE**

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
212
AREA
632
HEIGHT
426
29-Jun-2023
14:27
ALSHS
Ser

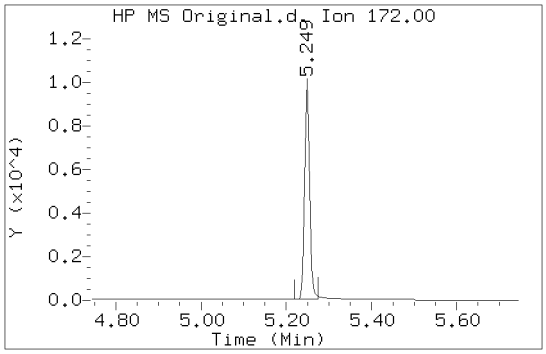



## 2-Fluorobiphenyl (321-60-8)

Reason Code:

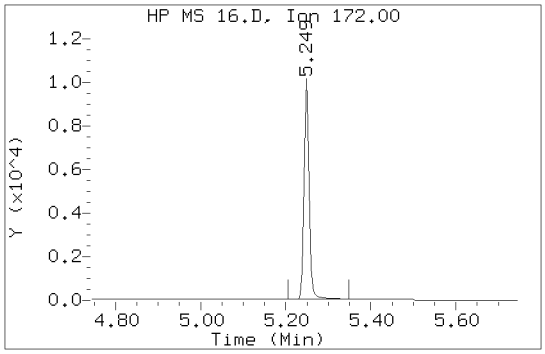
**BEFORE**

MASS
172
AREA
8416
HEIGHT
10125
16-Jun-2023
16:37
ALSHS
Server



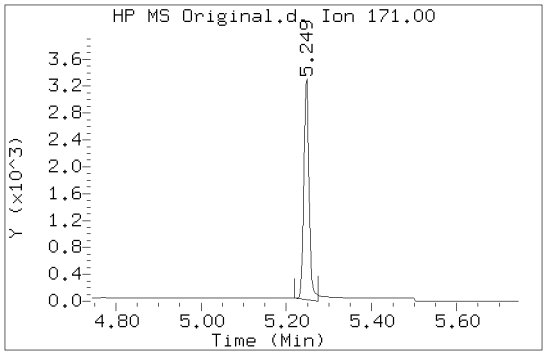

**AFTER**

MASS
172
AREA
8542
HEIGHT
10120
29-Jun-2023
14:27
ALSHS
Ser



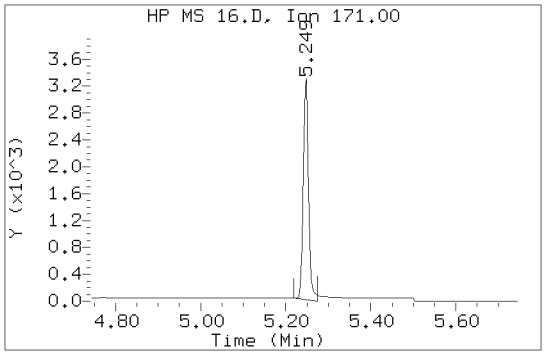

**BEFORE**

MASS
171
AREA
2911
HEIGHT
3286
16-Jun-2023
16:37
ALSHS
Server




**AFTER**

MASS
171
AREA
2911
HEIGHT
3286
29-Jun-2023
14:27
ALSHS
Ser



01196876

right solutions.
right partner.

# Raw Data SV 6 439713

# Semi-Volatiles by EPA 8270SIM

Workorder

HS23061096

Client

Bhate Environmental Associates, Inc.

Project

LHAAP /Site18/24

06/29/2023

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\230626.b\01.D Page 1
Report Date: 26-Jun-2023 09:57

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\SV6.i\230626.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 26-JUN-2023 09:31
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230626.b\DFTPP.m
Meth Date : 14-Mar-2023 15:59 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: NAHSTW7015

| 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 | | |
| 4.640 | 6.357 | -1.717 | 198 | 216576 | | | 0.00- 100.00 | 78.17 |
| 4.640 | 6.357 | -1.717 | 51 | 92234 | | | 10.00- 80.00 | 42.59 |
| 4.640 | 6.357 | -1.717 | 68 | 1108 | | | 0.00- 2.00 | 1.49 |
| 4.640 | 6.357 | -1.717 | 69 | 74312 | | | 0.00- 0.00 | 34.31 |
| 4.640 | 6.357 | -1.717 | 70 | 320 | | | 0.00- 2.00 | 0.43 |
| 4.640 | 6.357 | -1.717 | 127 | 83688 | | | 10.00- 80.00 | 38.64 |
| 4.640 | 6.357 | -1.717 | 197 | 1181 | | | 0.00- 2.00 | 0.55 |
| 4.640 | 6.357 | -1.717 | 199 | 14213 | | | 5.00- 9.00 | 6.56 |
| 4.640 | 6.357 | -1.717 | 275 | 58512 | | | 10.00- 60.00 | 27.02 |
| 4.640 | 6.357 | -1.717 | 365 | 8429 | | | 1.00- 100.00 | 3.89 |
| 4.640 | 6.357 | -1.717 | 441 | 41800 | | | 0.01- 99.99 | 78.98 |
| 4.640 | 6.357 | -1.717 | 442 | 277056 | | | 50.00- 150.00 | 127.93 |
| 4.640 | 6.357 | -1.717 | 443 | 52928 | | | 15.00- 24.00 | 19.10 |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| | | |
| 198 | Base Peak, 100% relative abundance | 0.00 * |
| 51 | 10.00 - 80.00% of mass 198 | 0.00 * |
| 68 | Less than 2.00% of mass 69 | 0.00 ( 26.66) * |
| 69 | Mass 69 relative abundance | 0.00 |
| 70 | Less than 2.00% of mass 69 | 0.00 (286.25) * |
| 127 | 10.00 - 80.00% of mass 198 | 0.00 * |
| 197 | Less than 2.00% of mass 198 | 0.00 |
| 199 | 5.00 - 9.00% of mass 198 | 0.00 * |
| 275 | 10.00 - 60.00% of mass 198 | 0.00 * |
| 365 | 1.00 - 100.00% of mass 198 | 0.00 * |
| 441 | Present, but less than mass 443 | 0.00 * |
| 442 | 50.00 - 150.00% of mass 198 | 0.00 * |
| 443 | 15.00 - 24.00% of mass 442 | 0.00 ( 0.00) * |

Data File: 01.D
Spectrum: Avg. Scans 566-568 ( 5.62), Background Scan 560
Location of Maximum: 184.00
Number of points: 126

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 527 | 73.00 | 449 | 108.00 | 58 | 144.00 | 1678 |
| 37.00 | 522 | 74.00 | 4937 | 109.00 | 151 | 145.00 | 695 |
| 38.00 | 2646 | 75.00 | 6797 | 110.00 | 415 | 149.00 | 56 |
| 39.00 | 10561 | 76.00 | 6954 | 111.00 | 574 | 150.00 | 1043 |
| 40.00 | 2185 | 77.00 | 23080 | 112.00 | 402 | 151.00 | 2438 |
| 41.00 | 7035 | 78.00 | 14672 | 113.00 | 2863 | 152.00 | 3140 |
| 42.00 | 2841 | 79.00 | 2819 | 114.00 | 3677 | 153.00 | 3299 |
| 43.00 | 579 | 80.00 | 1826 | 115.00 | 15282 | 154.00 | 18504 |
| 45.00 | 72 | 81.00 | 219 | 116.00 | 6679 | 155.00 | 7993 |
| 47.00 | 52 | 82.00 | 713 | 117.00 | 22520 | 156.00 | 44776 |
| 50.00 | 6150 | 83.00 | 5443 | 118.00 | 4014 | 157.00 | 10730 |
| 51.00 | 14742 | 84.00 | 1862 | 119.00 | 1216 | 158.00 | 4982 |
| 52.00 | 14717 | 86.00 | 1981 | 120.00 | 117 | 159.00 | 591 |
| 53.00 | 5475 | 87.00 | 3272 | 122.00 | 61 | 164.00 | 1577 |
| 54.00 | 8499 | 88.00 | 2589 | 123.00 | 120 | 165.00 | 1836 |
| 55.00 | 715 | 89.00 | 11453 | 124.00 | 232 | 166.00 | 25184 |
| 56.00 | 323 | 90.00 | 6376 | 125.00 | 1014 | 167.00 | 32640 |
| 57.00 | 729 | 91.00 | 28928 | 126.00 | 4099 | 168.00 | 14844 |
| 58.00 | 843 | 92.00 | 52616 | 127.00 | 14434 | 169.00 | 6569 |
| 60.00 | 57 | 93.00 | 15552 | 128.00 | 21832 | 170.00 | 714 |
| 61.00 | 2253 | 94.00 | 1226 | 129.00 | 7660 | 178.00 | 116 |
| 62.00 | 6240 | 97.00 | 127 | 130.00 | 25152 | 179.00 | 1048 |
| 63.00 | 16025 | 98.00 | 1374 | 131.00 | 4588 | 180.00 | 586 |
| 64.00 | 8815 | 99.00 | 1344 | 132.00 | 1512 | 181.00 | 10756 |
| 65.00 | 23568 | 100.00 | 1939 | 133.00 | 179 | 182.00 | 25776 |
| 66.00 | 7108 | 101.00 | 5379 | 137.00 | 785 | 183.00 | 77968 |
| 67.00 | 2899 | 102.00 | 9364 | 138.00 | 1408 | 184.00 | 687424 |
| 68.00 | 221 | 103.00 | 8379 | 139.00 | 16752 | 185.00 | 95176 |
| 69.00 | 829 | 104.00 | 4396 | 140.00 | 10492 | 186.00 | 5824 |
| 70.00 | 2373 | 105.00 | 767 | 141.00 | 8214 | 187.00 | 210 |
| 71.00 | 342 | 106.00 | 2766 | 142.00 | 3328 | | |
| 72.00 | 207 | 107.00 | 476 | 143.00 | 9134 | | |

Data File: \\NAHSTWS005\Target\chem\SV6.i\230626.b\03.D Page 1
Report Date: 29-Jun-2023 16:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230626.b\03.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 26-JUN-2023 10:25
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230626.b\DXSIM.m
Meth Date : 29-Jun-2023 16:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 2.771 | 2.771 | (1.000) | 5139 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 3.848 | 3.848 | (1.000) | 16823 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.222 | 3.222 | (0.837) | 3993 | 0.08000 | 0.07812(QM) |
| * 86 Acenaphthene-d10 | 164 | 5.495 | 5.495 | (1.000) | 9653 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 4.873 | 4.873 | (0.887) | 8280 | 0.08000 | 0.08388 |
| * 126 Phenanthrene-d10 | 188 | 6.923 | 6.923 | (1.000) | 19309 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 9.527 | 9.527 | (1.000) | 17826 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.505 | 8.505 | (0.893) | 8426 | 0.08000 | 0.06407(M) |
| * 198 Perylene-d12 | 264 | 11.294 | 11.294 | (1.000) | 14224 | 0.10000 | (M) |
| 1 1,4-Dioxane | 58 | 1.183 | 1.183 | (0.427) | 1313 | 0.08000 | 0.07530(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.

01196881

Data File: \\NAHSTWS005\Target\chem\SV6.i\230626.b\03.D



Date : 26-JUN-2023 10:25

Client ID: 14DX-0.08

Instrument: SV6.i

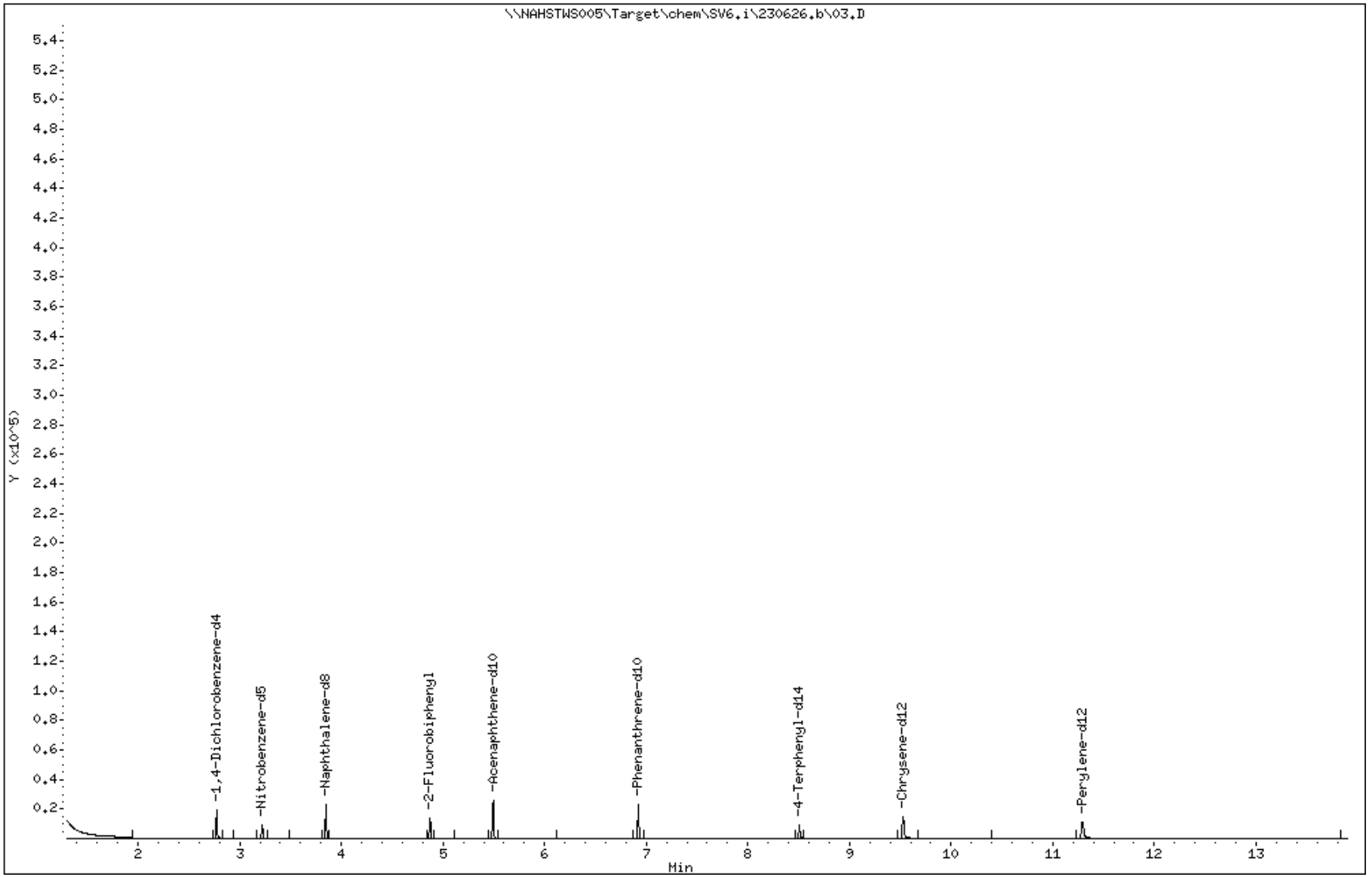
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



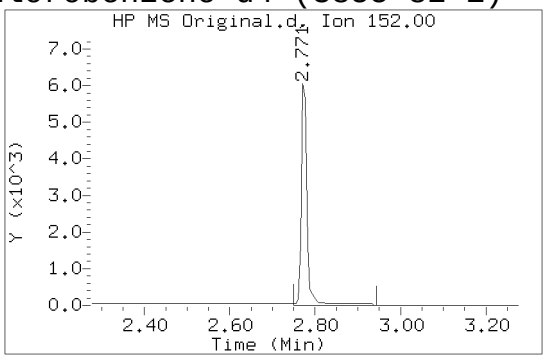
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\03.D
Inj Date : 26-JUN-2023 10:25
InstruID : SV6.i
LabSampID : 14DX-0.08

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

Reason Code:

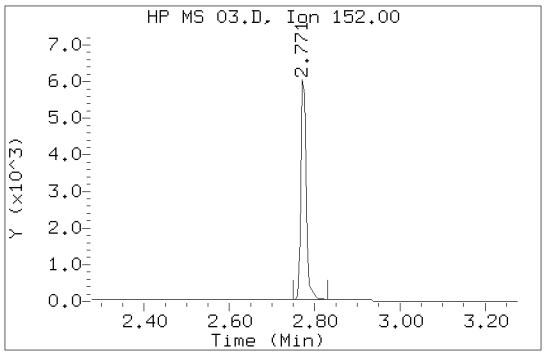
BEFORE

MASS
152
AREA
5709
HEIGHT
6052
26-Jun-2023
10:40
ALSHS
Server



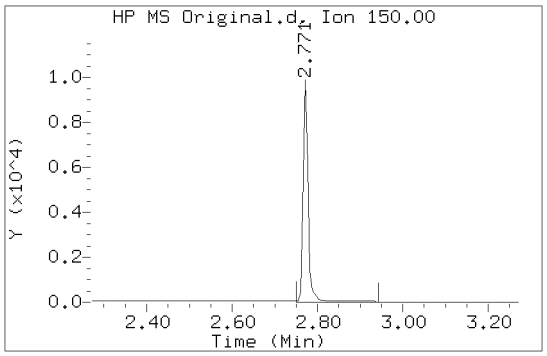

AFTER

MASS
152
AREA
5139
HEIGHT
6005
29-Jun-2023
16:26
ALSHS
Ser



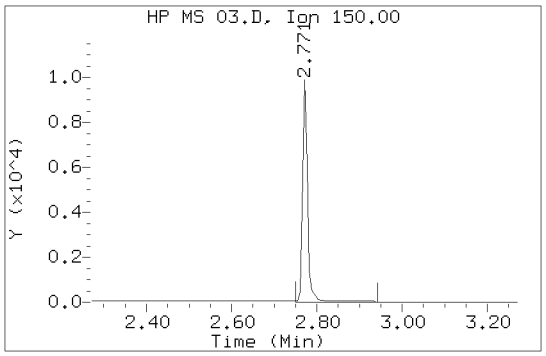

BEFORE

MASS
150
AREA
8024
HEIGHT
9882
26-Jun-2023
10:40
ALSHS
Server



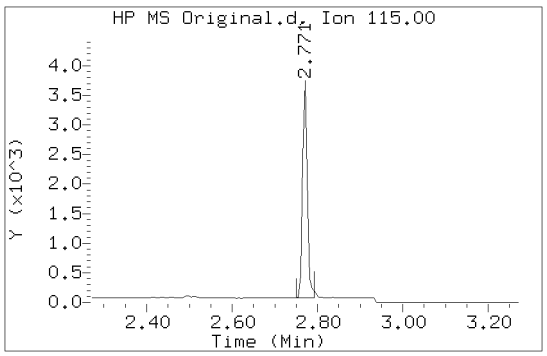

AFTER

MASS
150
AREA
8024
HEIGHT
9882
29-Jun-2023
16:26
ALSHS
Ser



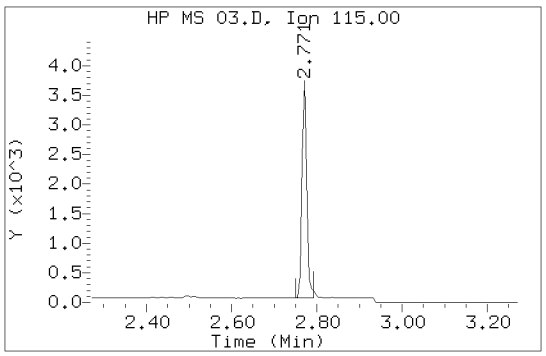

BEFORE

MASS
115
AREA
2764
HEIGHT
3675
26-Jun-2023
10:40
ALSHS
Server




AFTER

MASS
115
AREA
2764
HEIGHT
3675
29-Jun-2023
16:26
ALSHS
Ser

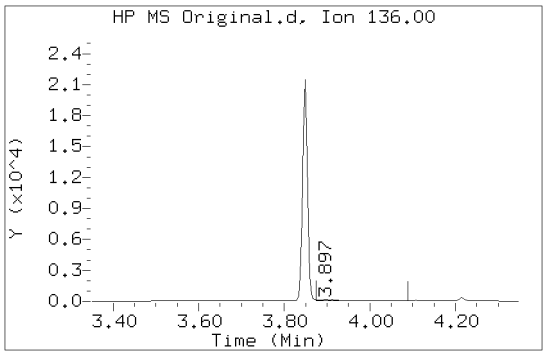



## Naphthalene-d8 (1146-65-2)

Reason Code:

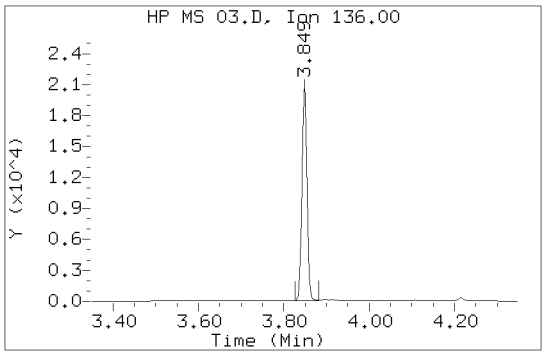
BEFORE

MASS
136
AREA
358
HEIGHT
148
26-Jun-2023
10:40
ALSHS
Server




AFTER

MASS
136
AREA
16823
HEIGHT
21432
29-Jun-2023
16:26
ALSHS
Ser



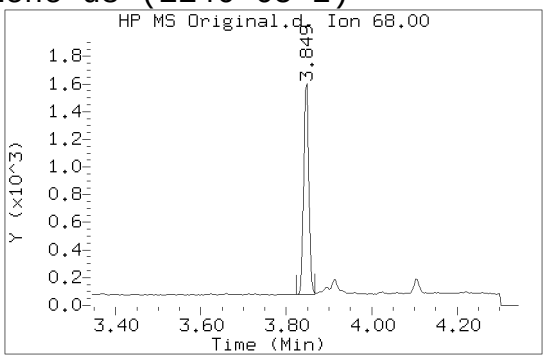
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Inj Date : 26-JUN-2023 10:25
InstruID : SV6.i
LabSampID : 14DX-0.08

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

Reason Code:

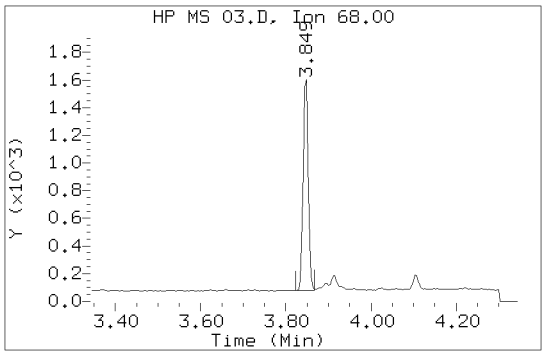
**BEFORE**

MASS
68
AREA
1261
HEIGHT
1524
26-Jun-2023
10:40
ALSHS
Server




**AFTER**

MASS
68
AREA
1261
HEIGHT
1524
29-Jun-2023
16:26
ALSHS
Ser

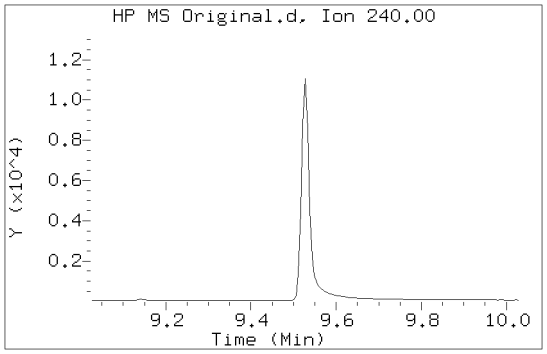



## Chrysene-d12 (1719-03-5)

Reason Code:

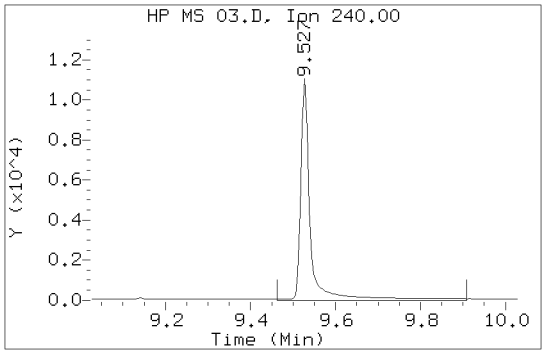
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
26-Jun-2023
10:40
ALSHS
Server



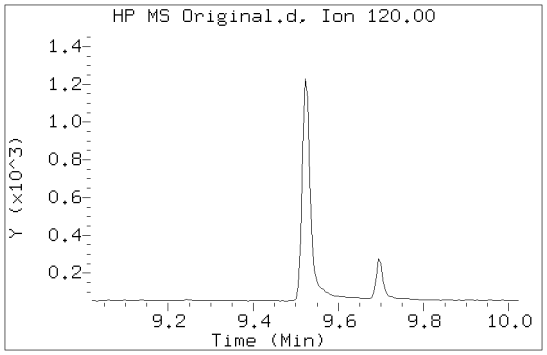

**AFTER**

MASS
240
AREA
17826
HEIGHT
11074
29-Jun-2023
16:26
ALSHS
Ser



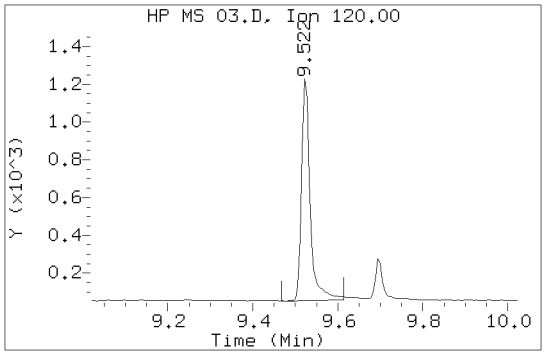

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
26-Jun-2023
10:40
ALSHS
Server



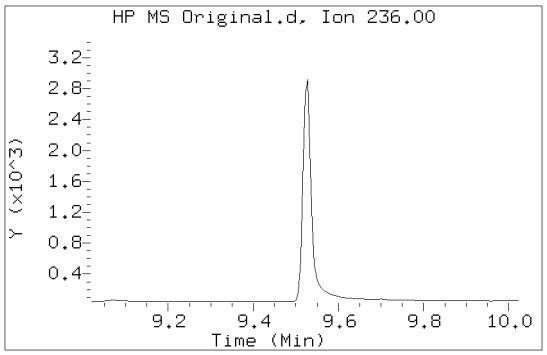

**AFTER**

MASS
120
AREA
1659
HEIGHT
1175
29-Jun-2023
16:26
ALSHS
Ser



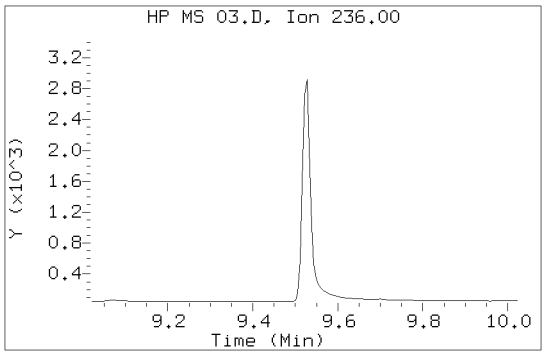

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
26-Jun-2023
10:40
ALSHS
Server




**AFTER**

MASS
236
AREA
0
HEIGHT
0
29-Jun-2023
16:26
ALSHS
Ser



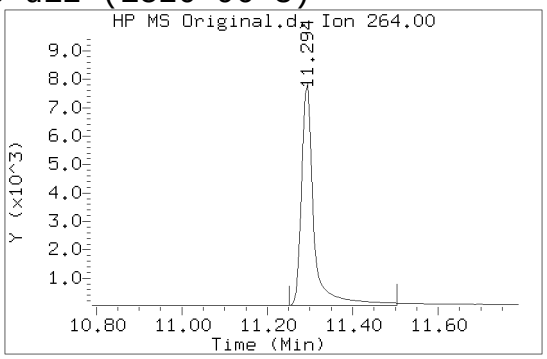
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\03.D
Inj Date : 26-JUN-2023 10:25
InstruID : SV6.i
LabSampID : 14DX-0.08

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

Reason Code:

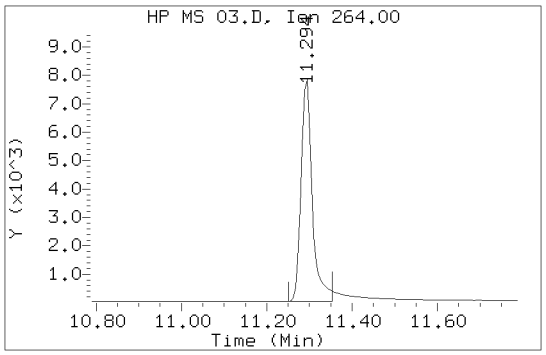
**BEFORE**

MASS
264
AREA
15551
HEIGHT
7794
26-Jun-2023
10:40
ALSHS
Server



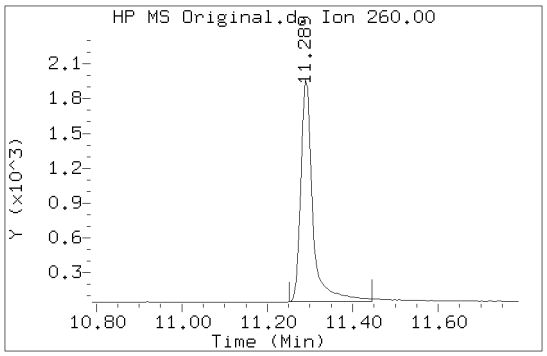

**AFTER**

MASS
264
AREA
14224
HEIGHT
7794
29-Jun-2023
16:26
ALSHS
Ser



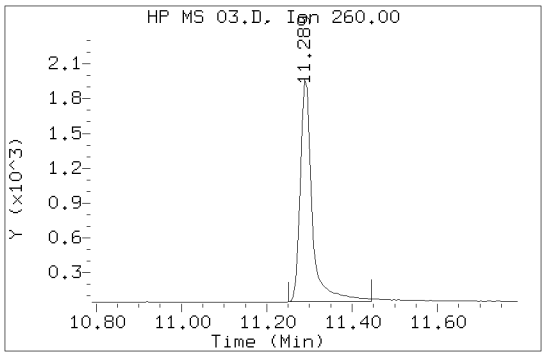

**BEFORE**

MASS
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AREA
3745
HEIGHT
1914
26-Jun-2023
10:40
ALSHS
Server



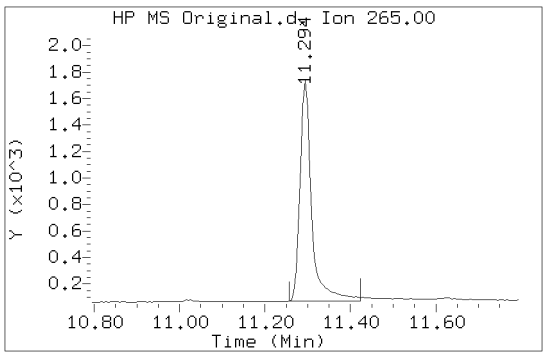

**AFTER**

MASS
260
AREA
3745
HEIGHT
1914
29-Jun-2023
16:26
ALSHS
Ser



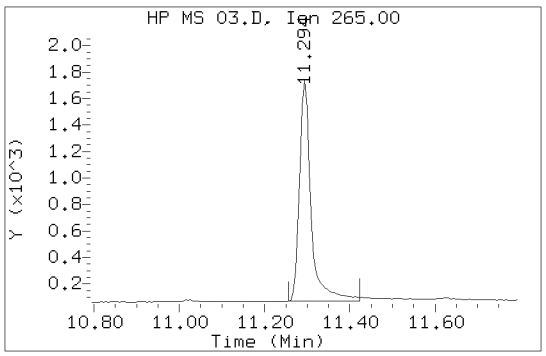

**BEFORE**

MASS
265
AREA
3171
HEIGHT
1666
26-Jun-2023
10:40
ALSHS
Server




**AFTER**

MASS
265
AREA
3171
HEIGHT
1666
29-Jun-2023
16:26
ALSHS
Ser

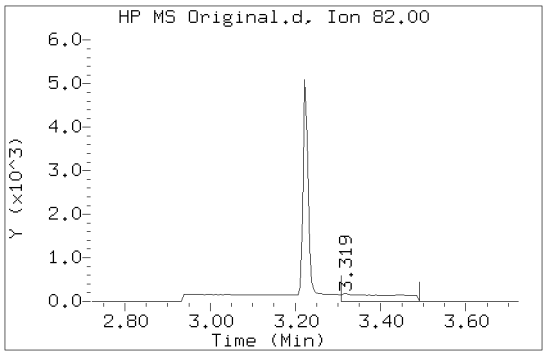



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

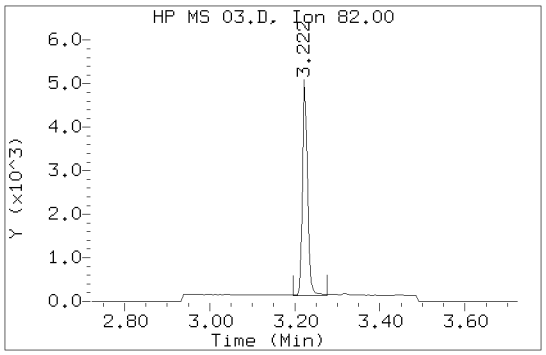
**BEFORE**

MASS
82
AREA
1566
HEIGHT
183
26-Jun-2023
10:40
ALSHS
Server




**AFTER**

MASS
82
AREA
3993
HEIGHT
4956
29-Jun-2023
16:26
ALSHS
Ser

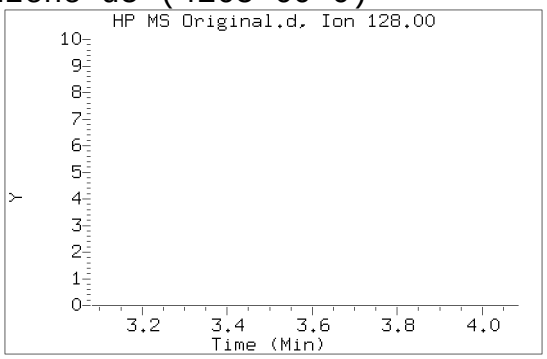


Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\03.D
Inj Date : 26-JUN-2023 10:25
InstruID : SV6.i
LabSampID : 14DX-0.08

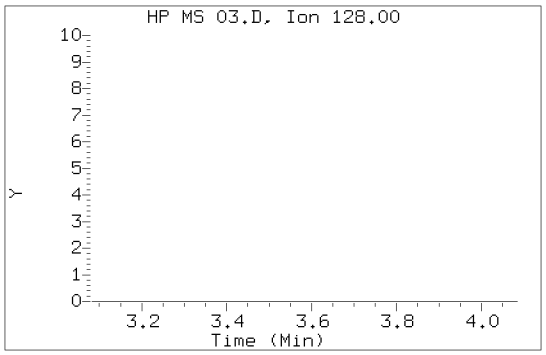
## Nitrobenzene-d5 (4165-60-0)

Reason Code:

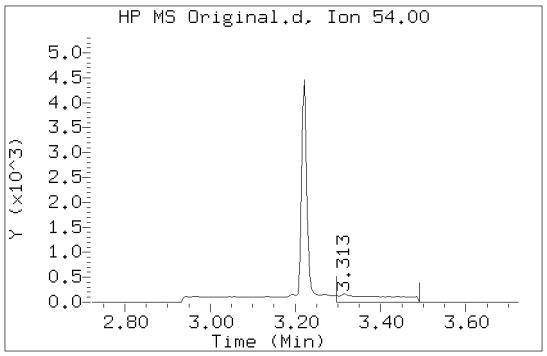
BEFORE
MASS
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AREA
0
HEIGHT
0
26-Jun-2023
10:40
ALSHS
Server



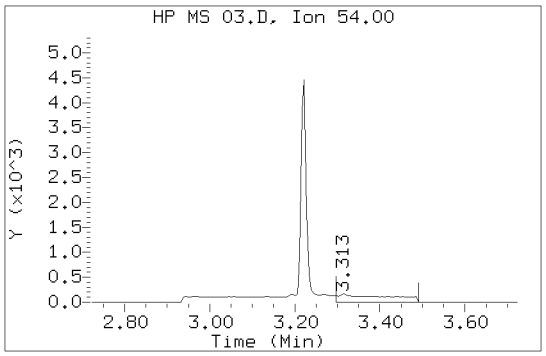

AFTER
MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
16:26
ALSHS
Ser




BEFORE
MASS
54
AREA
1354
HEIGHT
169
26-Jun-2023
10:40
ALSHS
Server



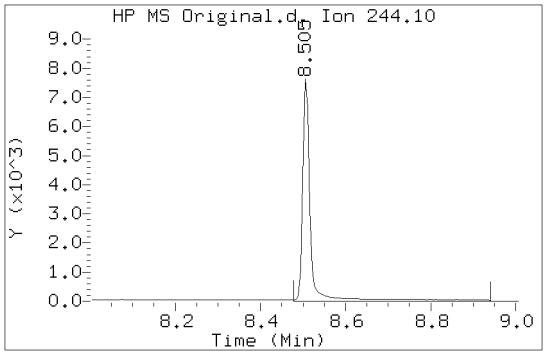

AFTER
MASS
54
AREA
1354
HEIGHT
169
29-Jun-2023
16:26
ALSHS
Ser



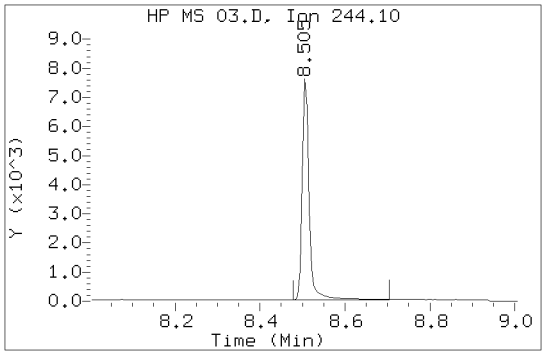

## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

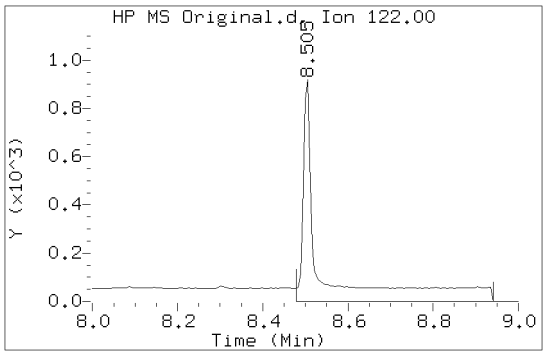
BEFORE
MASS
244.1
AREA
9924
HEIGHT
7635
26-Jun-2023
10:40
ALSHS
Server



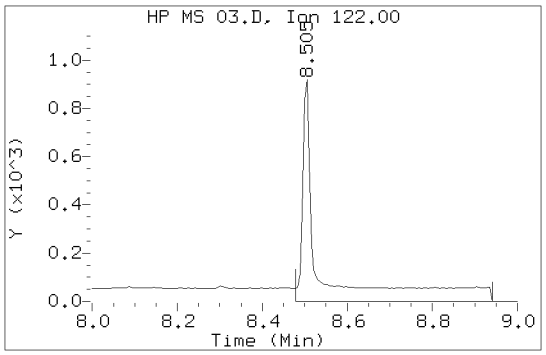

AFTER
MASS
244.1
AREA
8426
HEIGHT
7583
29-Jun-2023
16:26
ALSHS
Ser




BEFORE
MASS
122
AREA
2517
HEIGHT
919
26-Jun-2023
10:40
ALSHS
Server




AFTER
MASS
122
AREA
2517
HEIGHT
919
29-Jun-2023
16:26
ALSHS
Ser



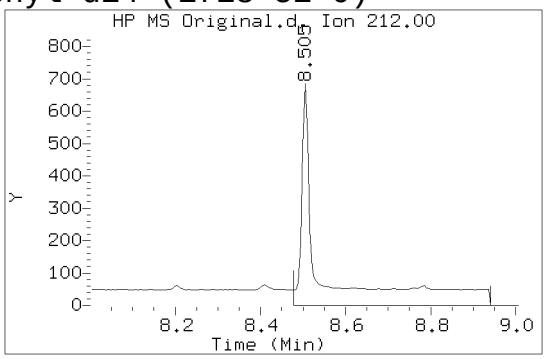
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\03.D
Inj Date : 26-JUN-2023 10:25
InstruID : SV6.i
LabSampID : 14DX-0.08

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

Reason Code:

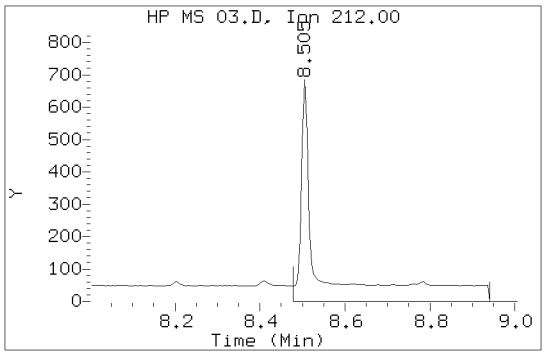
BEFORE

MASS
212
AREA
2070
HEIGHT
685
26-Jun-2023
10:40
ALSHS
Server




AFTER

MASS
212
AREA
2070
HEIGHT
685
29-Jun-2023
16:26
ALSHS
Ser



Data File: \\nahstws005\Target\chem\SV6.i\230626.b\07.D Page 1
Report Date: 26-Jun-2023 13:55

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230626.b\07.D
Lab Smp Id: MBLK-195363 Client Smp ID: MBLK-195363
Inj Date : 26-JUN-2023 12:04
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-195363
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230626.b\DXSIM.m
Meth Date : 26-Jun-2023 10:42 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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 | 2.776 | 2.771 | (1.000) | 5095 | 0.10000 | | (a) |
| * 45 Naphthalene-d8 | 136 | 3.848 | 3.848 | (1.000) | 16873 | 0.10000 | | |
| $ 33 Nitrobenzene-d5 | 82 | 3.222 | 3.222 | (0.837) | 3999 | 0.07801 | 0.07801 | (M) |
| * 86 Acenaphthene-d10 | 164 | 5.495 | 5.495 | (1.000) | 9575 | 0.10000 | | |
| $ 69 2-Fluorobiphenyl | 172 | 4.873 | 4.873 | (0.887) | 8721 | 0.08907 | 0.08907 | |
| * 126 Phenanthrene-d10 | 188 | 6.923 | 6.923 | (1.000) | 18779 | 0.10000 | | |
| * 182 Chrysene-d12 | 240 | 9.527 | 9.527 | (1.000) | 15948 | 0.10000 | | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.505 | 8.505 | (0.893) | 9782 | 0.08314 | 0.08314 | (M) |
| * 198 Perylene-d12 | 264 | 11.294 | 11.294 | (1.000) | 12746 | 0.10000 | | |

QC Flag Legend

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

01196888

Data File: \\nahstws005\Target\chem\SV6.i\230626.b\07.D



Date : 26-JUN-2023 12:04

Client ID: MBLK-195363

Instrument: SV6.i

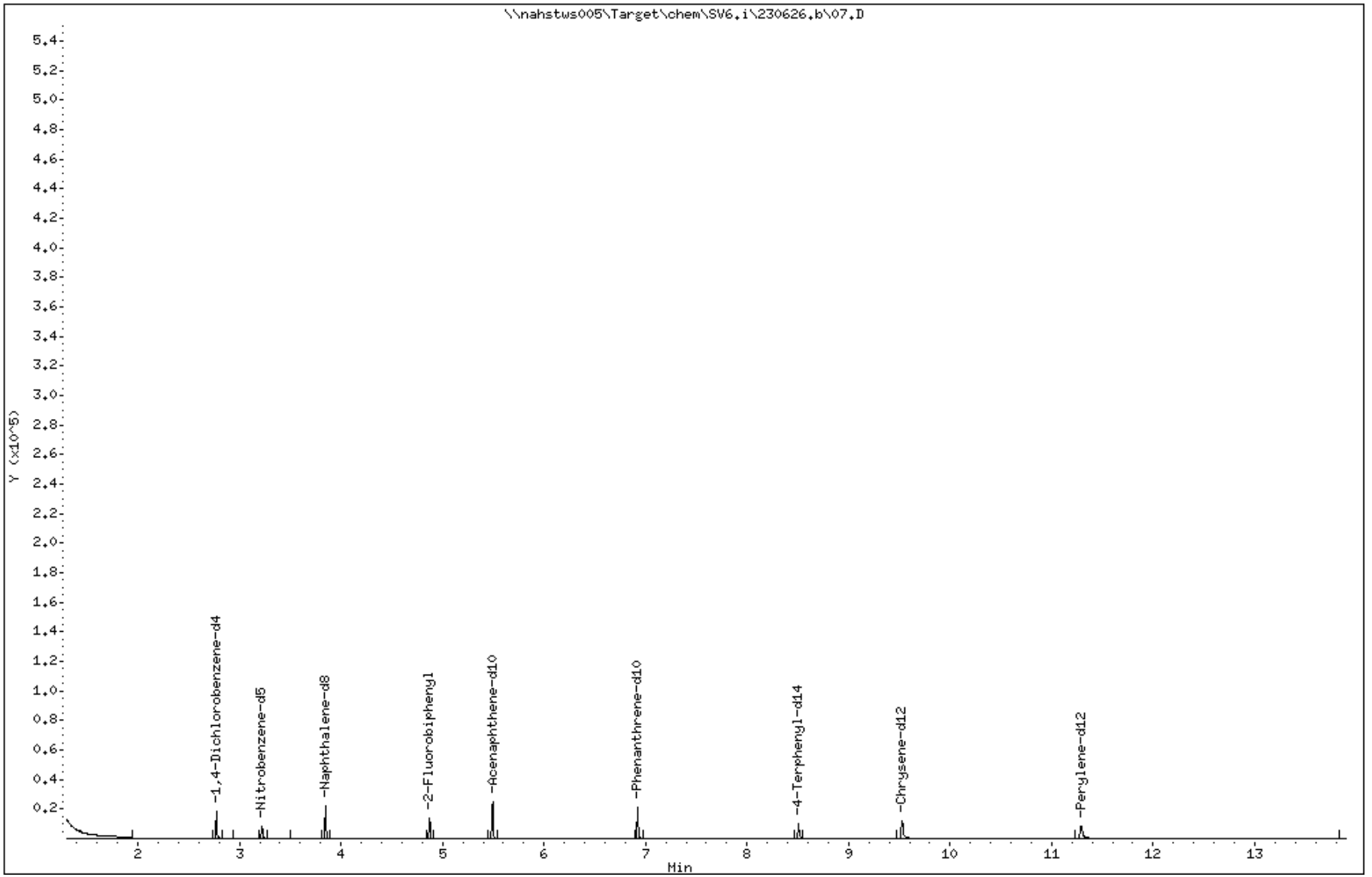
Sample Info: MBLK-195363

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



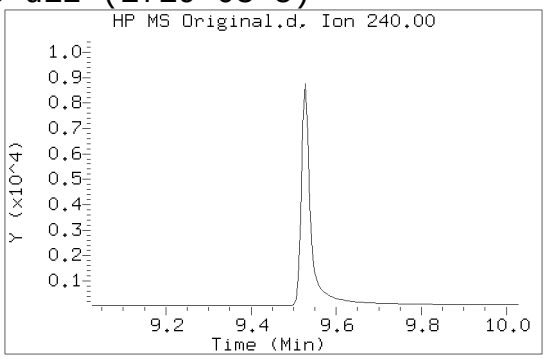
Data File : \\nahstws005\Target\chem\SV6.i\230626.b\07.D
Inj Date : 26-JUN-2023 12:04
InstruID : SV6.i
LabSampID : MBLK-195363

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

Reason Code:

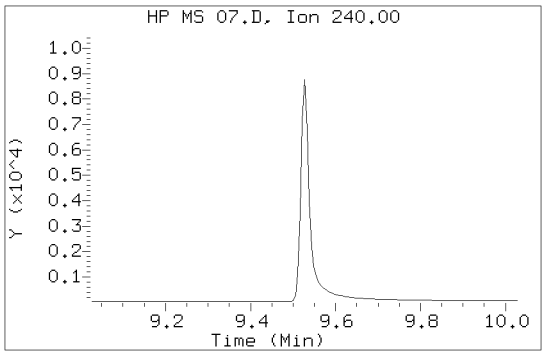
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
26-Jun-2023
12:21
ALSHS
Server



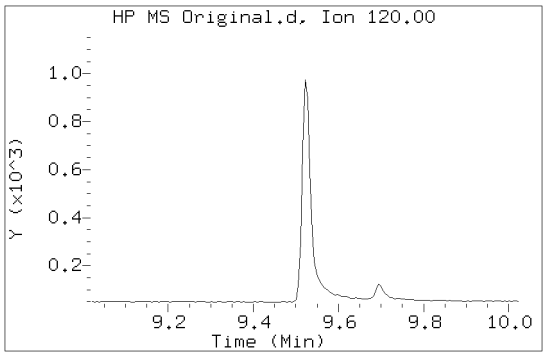

**AFTER**

MASS
240
AREA
15948
HEIGHT
8740
26-Jun-2023
13:55
ALSHS
Se



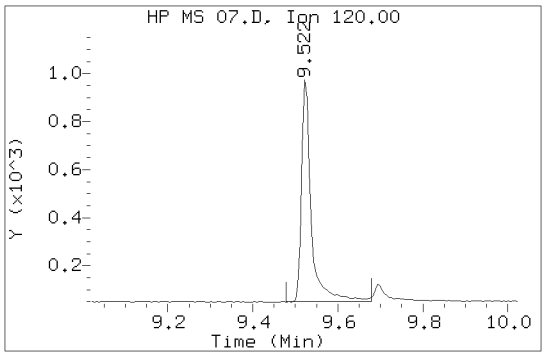

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
26-Jun-2023
12:21
ALSHS
Server



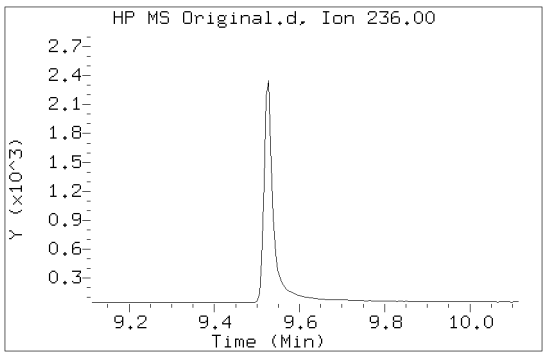

**AFTER**

MASS
120
AREA
1469
HEIGHT
924
26-Jun-2023
13:55
ALSHS
Se



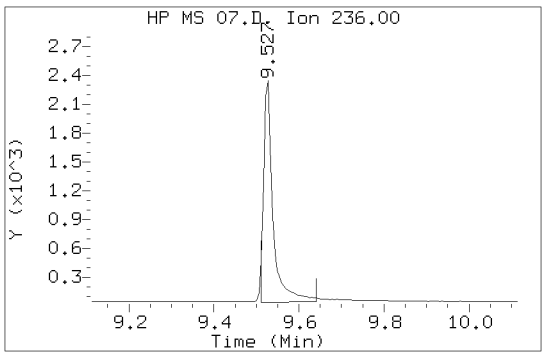

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
26-Jun-2023
12:21
ALSHS
Server




**AFTER**

MASS
236
AREA
3568
HEIGHT
2304
26-Jun-2023
13:55
ALSHS
Se

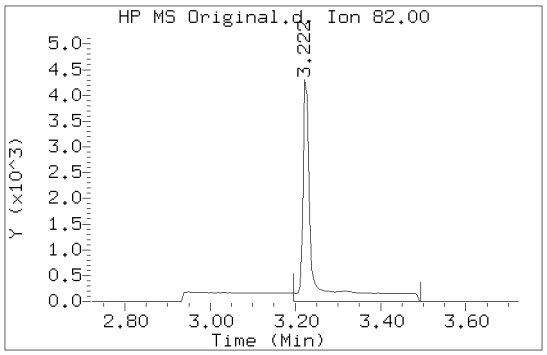



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

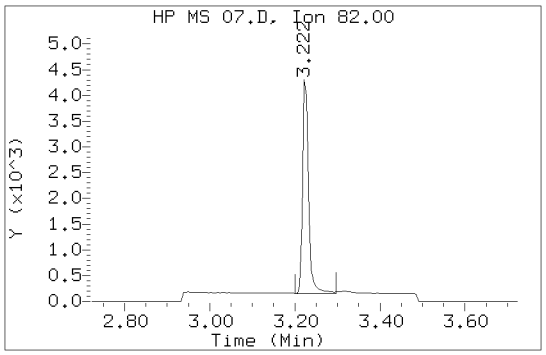
**BEFORE**

MASS
82
AREA
6728
HEIGHT
4305
26-Jun-2023
12:21
ALSHS
Server




**AFTER**

MASS
82
AREA
3999
HEIGHT
4158
26-Jun-2023
13:55
ALSHS
Se



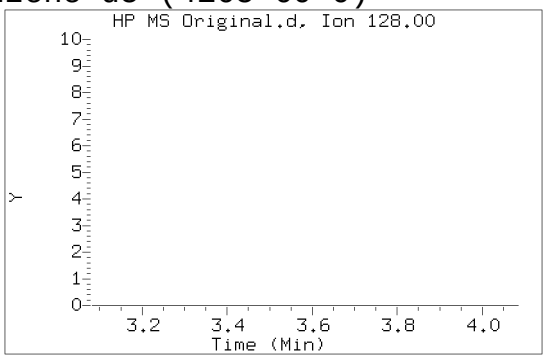
Data File : \\nahstws005\Target\chem\SV6.i\230626.b\07.D
Inj Date : 26-JUN-2023 12:04
InstruID : SV6.i
LabSampID : MBLK-195363

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

Reason Code:

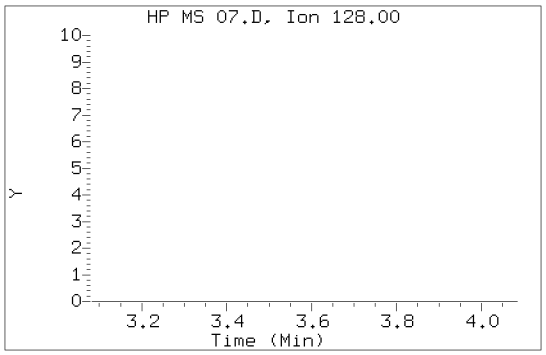
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jun-2023
12:21
ALSHS
Server



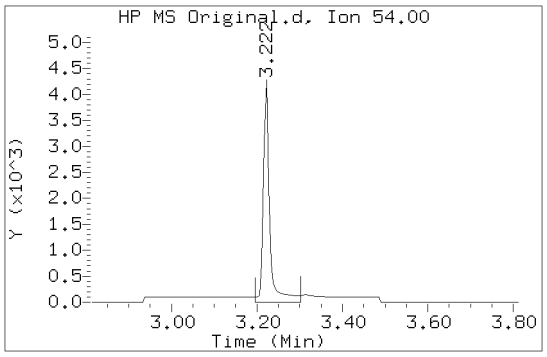

AFTER

MASS
128
AREA
0
HEIGHT
0
26-Jun-2023
13:55
ALSHS
Se



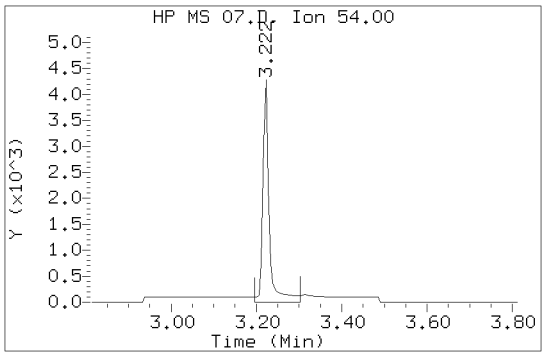

BEFORE

MASS
54
AREA
4388
HEIGHT
4280
26-Jun-2023
12:21
ALSHS
Server




AFTER

MASS
54
AREA
4388
HEIGHT
4280
26-Jun-2023
13:55
ALSHS
Se

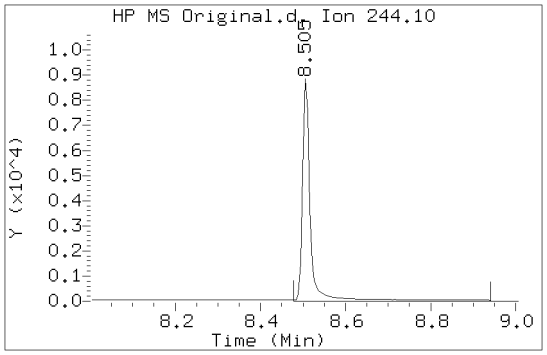



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

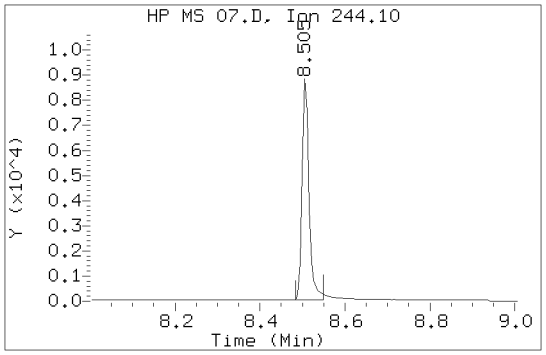
BEFORE

MASS
244.1
AREA
11786
HEIGHT
8850
26-Jun-2023
12:21
ALSHS
Server



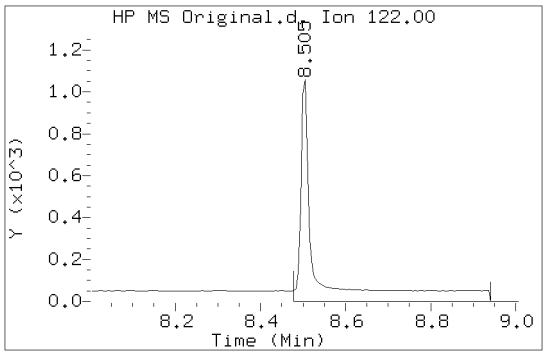

AFTER

MASS
244.1
AREA
9782
HEIGHT
8792
26-Jun-2023
13:55
ALSHS
Se



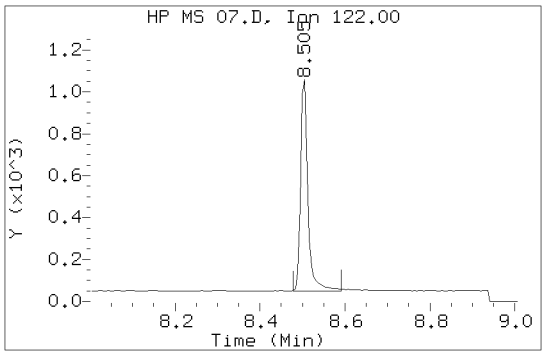

BEFORE

MASS
122
AREA
2615
HEIGHT
1058
26-Jun-2023
12:21
ALSHS
Server




AFTER

MASS
122
AREA
1195
HEIGHT
1009
26-Jun-2023
13:55
ALSHS
Se



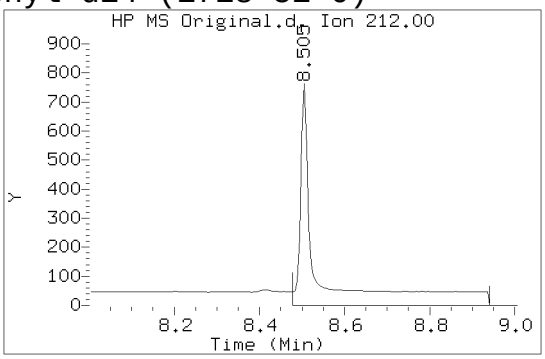
Data File : \\nahstws005\Target\chem\SV6.i\230626.b\07.D
Inj Date : 26-JUN-2023 12:04
InstruID : SV6.i
LabSampID : MBLK-195363

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

Reason Code:

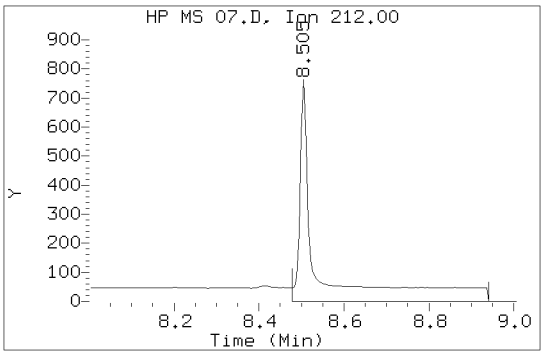
BEFORE

MASS
212
AREA
2131
HEIGHT
763
26-Jun-2023
12:21
ALSHS
Server




AFTER

MASS
212
AREA
2131
HEIGHT
763
26-Jun-2023
13:55
ALSHS
Se



Data File: \\nahstws005\Target\chem\SV6.i\230626.b\08.D Page 1
Report Date: 26-Jun-2023 13:55

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230626.b\08.D
Lab Smp Id: LCS-195363 Client Smp ID: LCS-195363
Inj Date : 26-JUN-2023 12:22
Operator : LG Inst ID: SV6.i
Smp Info : LCS-195363
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230626.b\DXSIM.m
Meth Date : 26-Jun-2023 10:42 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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 | 2.776 | 2.771 | (1.000) | 5990 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 3.848 | 3.848 | (1.000) | 22012 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.222 | 3.222 | (0.837) | 4996 | 0.07470 | 0.07470 |
| * 86 Acenaphthene-d10 | 164 | 5.489 | 5.495 | (1.000) | 12928 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 4.873 | 4.873 | (0.888) | 11862 | 0.08973 | 0.08973(M) |
| * 126 Phenanthrene-d10 | 188 | 6.918 | 6.923 | (1.000) | 24736 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 9.522 | 9.527 | (1.000) | 31796 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.505 | 8.505 | (0.893) | 26103 | 0.11128 | 0.1113(M) |
| * 198 Perylene-d12 | 264 | 11.288 | 11.294 | (1.000) | 18461 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 1.195 | 1.183 | (0.430) | 1437 | 0.07070 | 0.07070(M) |

QC Flag Legend

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

01196893

Data File: \\nahstws005\Target\chem\SV6.i\230626.b\08.D



Date : 26-JUN-2023 12:22

Client ID: LCS-195363

Instrument: SV6.i

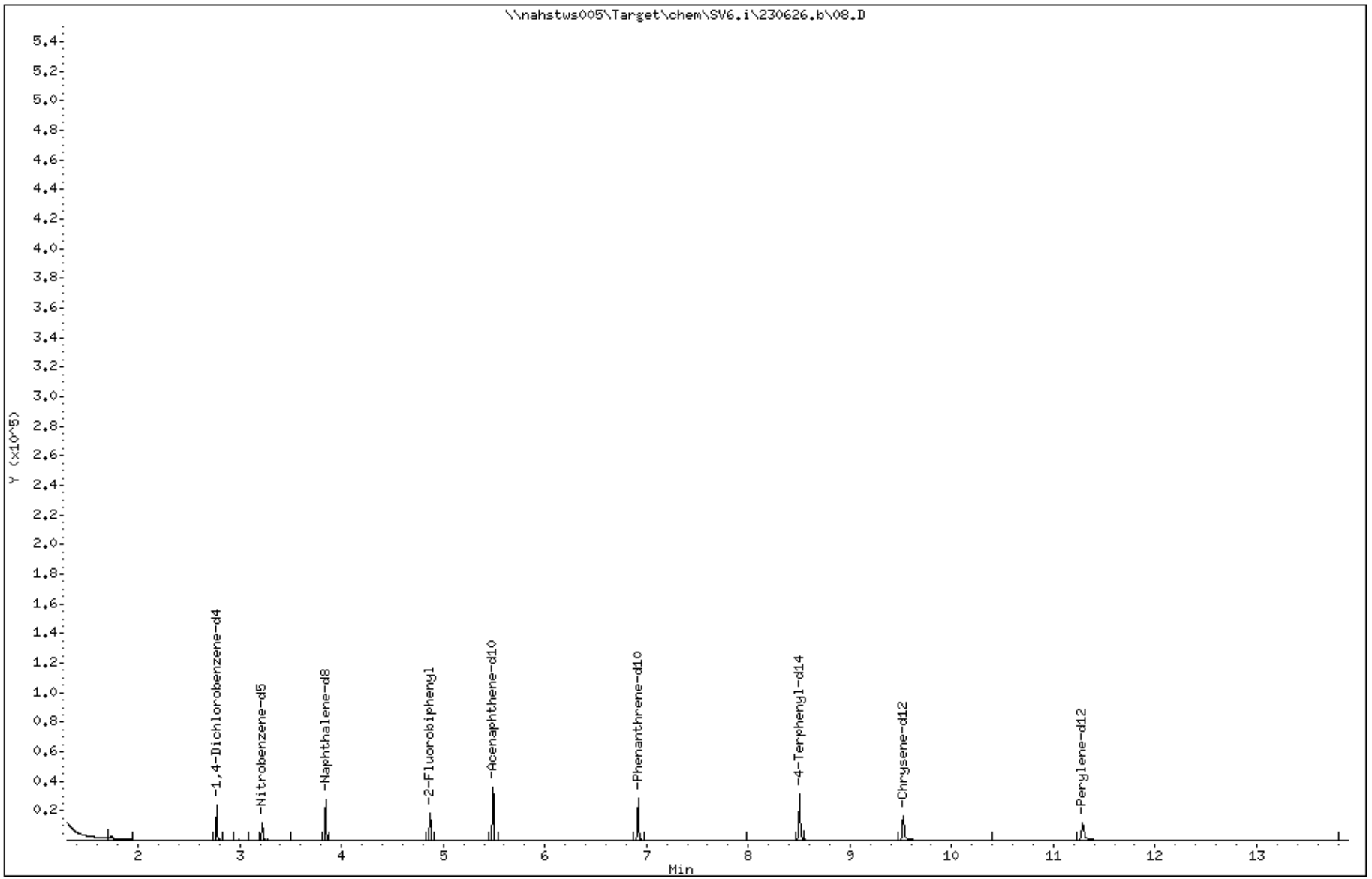
Sample Info: LCS-195363

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

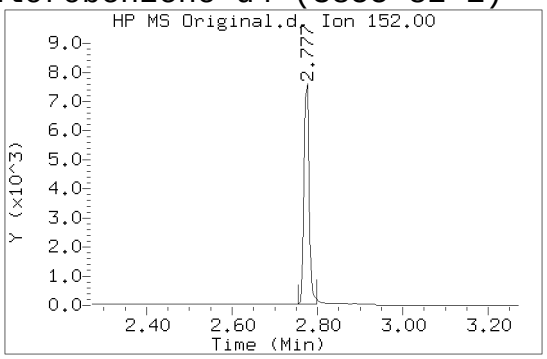


Data File : \\nahstws005\Target\chem\SV6.i\230626.b\08.D
Inj Date : 26-JUN-2023 12:22
InstruID : SV6.i
LabSampID : LCS-195363

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

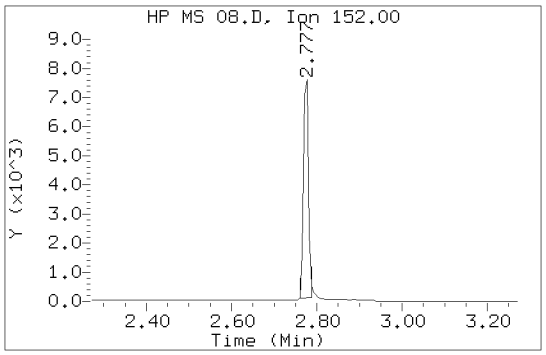
Reason Code:

**BEFORE**



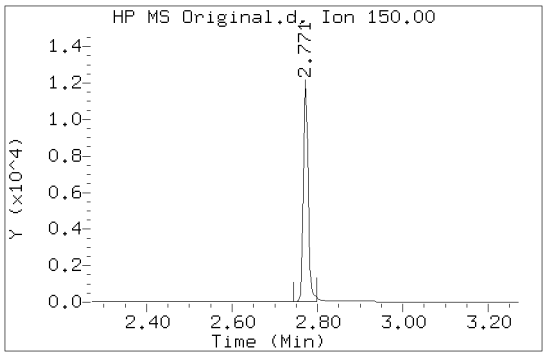

MASS
152
AREA
6271
HEIGHT
7564
26-Jun-2023
12:36
ALSHS
Server

**AFTER**



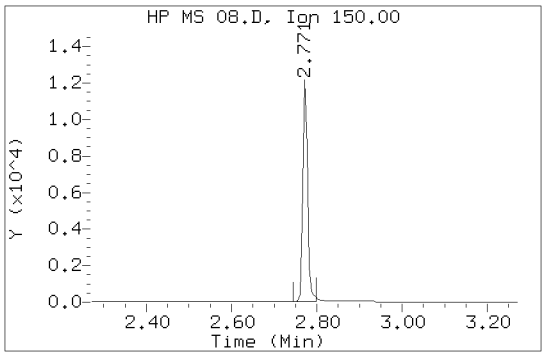

MASS
152
AREA
5990
HEIGHT
7491
26-Jun-2023
13:55
ALSHS
Se

**BEFORE**



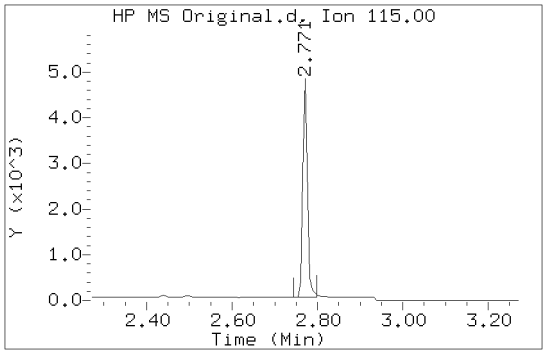

MASS
150
AREA
9104
HEIGHT
12124
26-Jun-2023
12:36
ALSHS
Server

**AFTER**



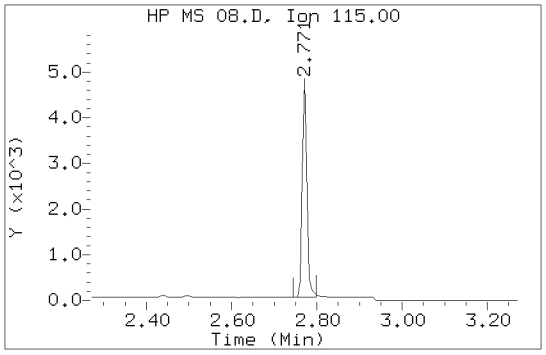

MASS
150
AREA
9104
HEIGHT
12124
26-Jun-2023
13:55
ALSHS
Se

**BEFORE**




MASS
115
AREA
3489
HEIGHT
4792
26-Jun-2023
12:36
ALSHS
Server

**AFTER**

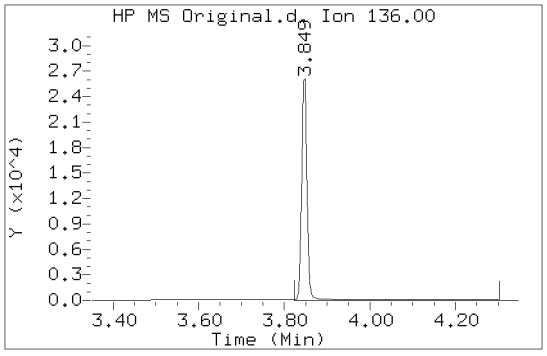



MASS
115
AREA
3489
HEIGHT
4792
26-Jun-2023
13:55
ALSHS
Se

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

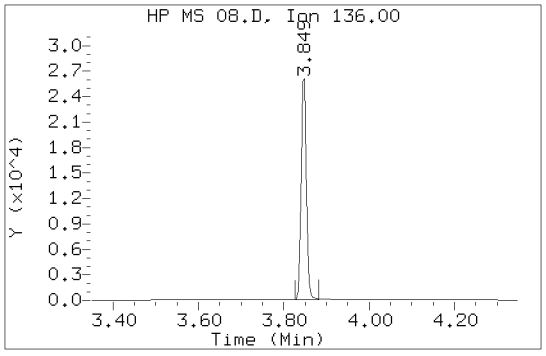
Reason Code:

**BEFORE**




MASS
136
AREA
24025
HEIGHT
26104
26-Jun-2023
12:36
ALSHS
Server

**AFTER**



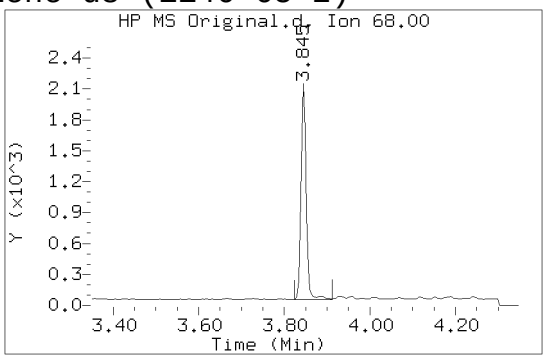

MASS
136
AREA
22012
HEIGHT
26045
26-Jun-2023
13:55
ALSHS
Se

Data File : \\nahstws005\Target\chem\SV6.i\230626.b\08.D
Inj Date : 26-JUN-2023 12:22
InstruID : SV6.i
LabSampID : LCS-195363

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

### BEFORE

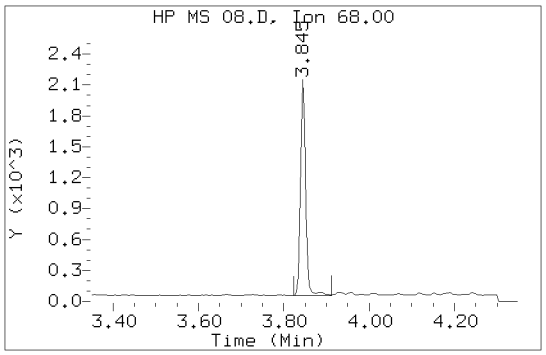
MASS
68
AREA
1708
HEIGHT
2092
26-Jun-2023
12:36
ALSHS
Server




### AFTER

MASS
68
AREA
1708
HEIGHT
2092
26-Jun-2023
13:55
ALSHS
Se

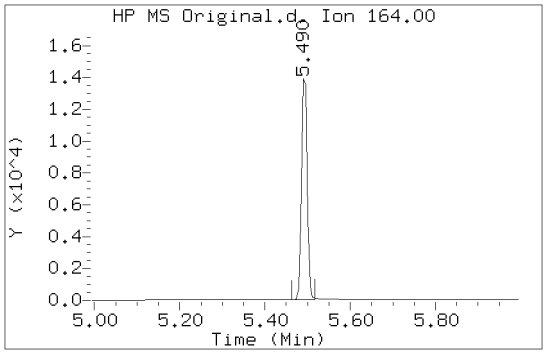
Reason Code:




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

### BEFORE

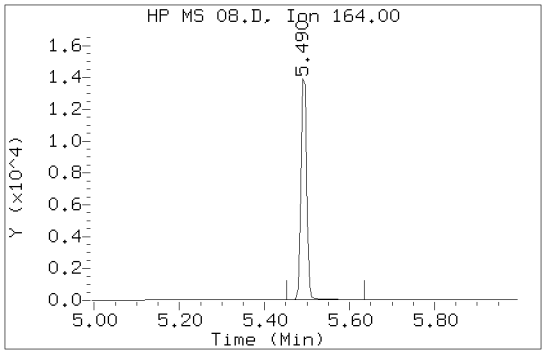
MASS
164
AREA
12614
HEIGHT
13877
26-Jun-2023
12:36
ALSHS
Server




### AFTER

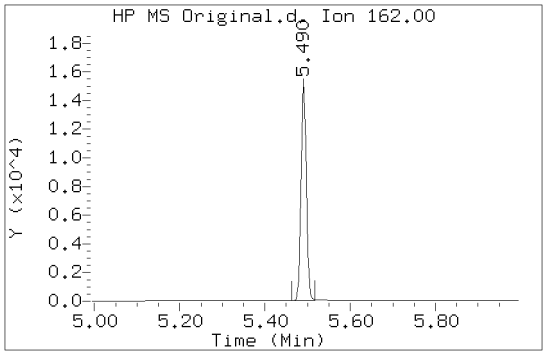
MASS
164
AREA
12928
HEIGHT
13894
26-Jun-2023
13:55
ALSHS
Se

Reason Code:



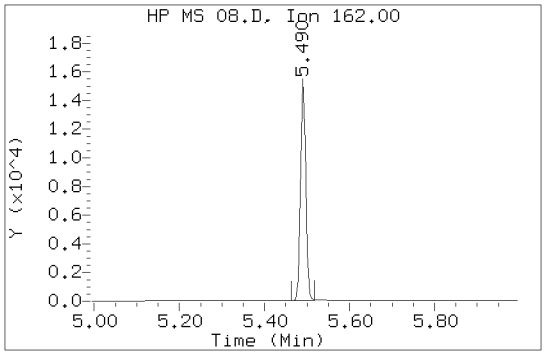

### BEFORE

MASS
162
AREA
12662
HEIGHT
15460
26-Jun-2023
12:36
ALSHS
Server



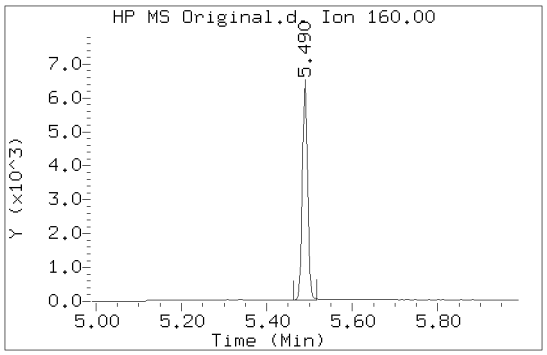

### AFTER

MASS
162
AREA
12662
HEIGHT
15460
26-Jun-2023
13:55
ALSHS
Se



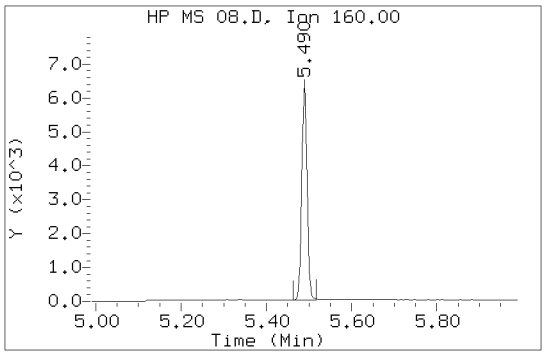

### BEFORE

MASS
160
AREA
5338
HEIGHT
6494
26-Jun-2023
12:36
ALSHS
Server




### AFTER

MASS
160
AREA
5338
HEIGHT
6494
26-Jun-2023
13:55
ALSHS
Se



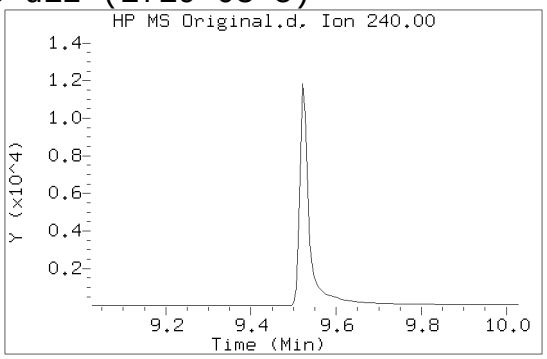
Data File : \\nahstws005\Target\chem\SV6.i\230626.b\08.D
Inj Date : 26-JUN-2023 12:22
InstruID : SV6.i
LabSampID : LCS-195363

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

Reason Code:

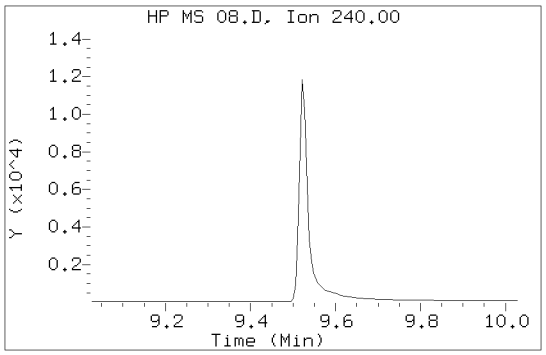
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
26-Jun-2023
12:36
ALSHS
Server



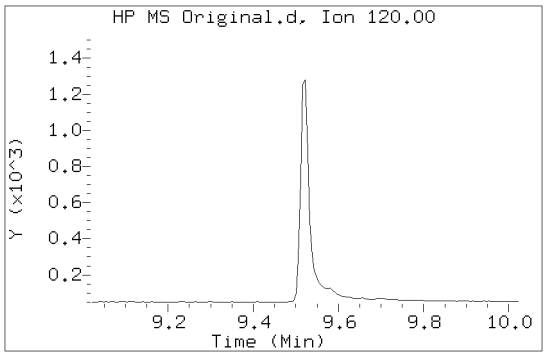

**AFTER**

MASS
240
AREA
31796
HEIGHT
11930
26-Jun-2023
13:55
ALSHS
Se



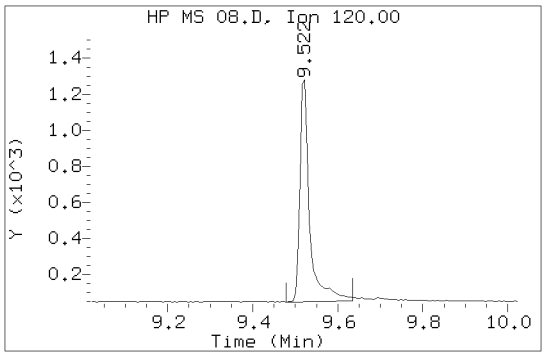

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
26-Jun-2023
12:36
ALSHS
Server



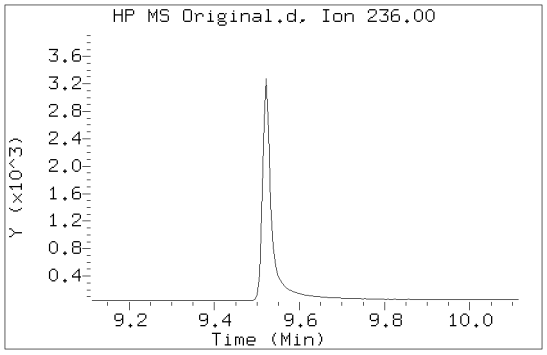

**AFTER**

MASS
120
AREA
1964
HEIGHT
1230
26-Jun-2023
13:55
ALSHS
Se



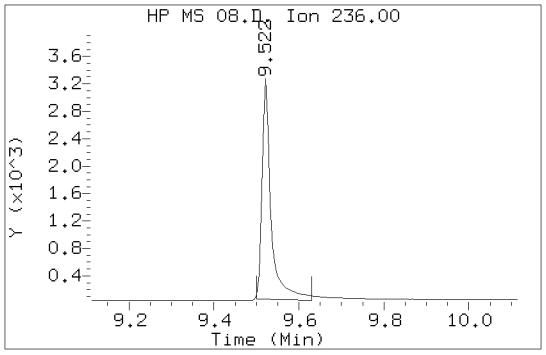

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
26-Jun-2023
12:36
ALSHS
Server




**AFTER**

MASS
236
AREA
4829
HEIGHT
3218
26-Jun-2023
13:55
ALSHS
Se

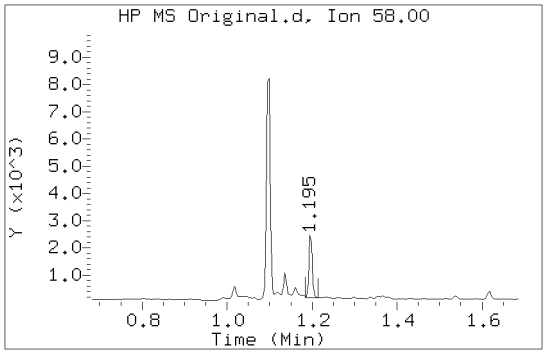



## 1,4-Dioxane ()

Reason Code:

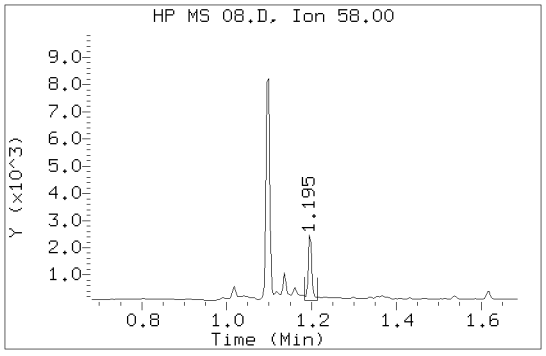
**BEFORE**

MASS
58
AREA
1226
HEIGHT
2291
26-Jun-2023
12:36
ALSHS
Server




**AFTER**

MASS
58
AREA
1437
HEIGHT
2397
26-Jun-2023
13:55
ALSHS
Se

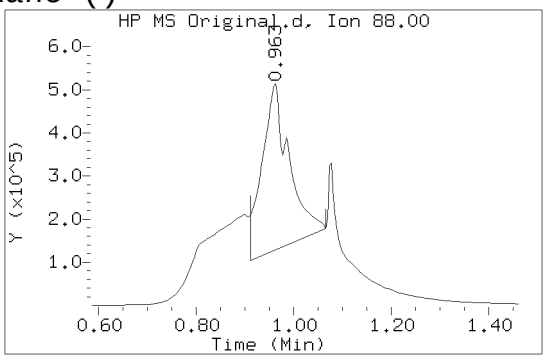


Data File : \\nahstws005\Target\chem\SV6.i\230626.b\08.D
Inj Date : 26-JUN-2023 12:22
InstruID : SV6.i
LabSampID : LCS-195363

## 1,4-Dioxane ()

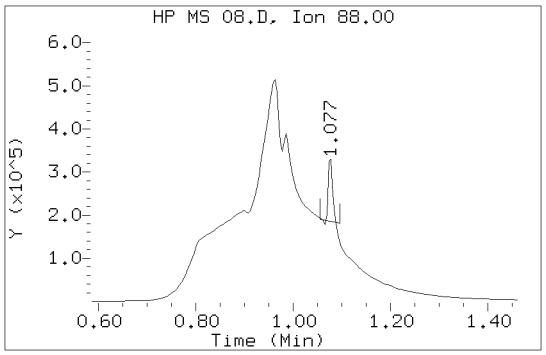
Reason Code:

**BEFORE**




MASS
88
AREA
1505175
HEIGHT
385508
26-Jun-2023
12:36
ALSHS
Server

**AFTER**

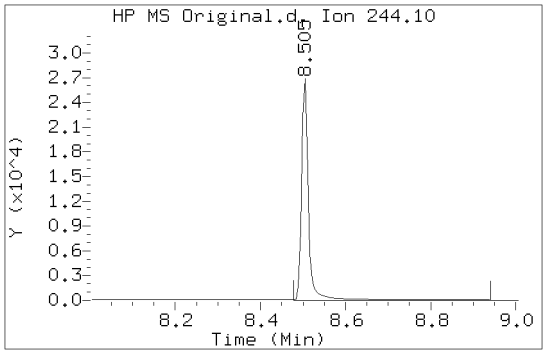



MASS
88
AREA
73813
HEIGHT
145059
26-Jun-2023
13:55
ALSHS
Se

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

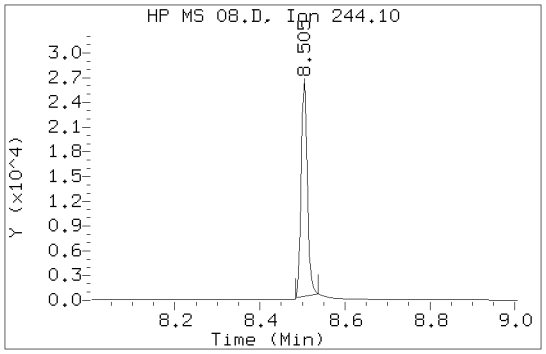
Reason Code:

**BEFORE**



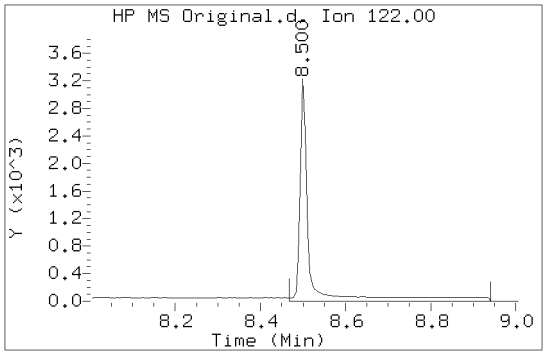

MASS
244.1
AREA
30914
HEIGHT
26880
26-Jun-2023
12:36
ALSHS
Server

**AFTER**



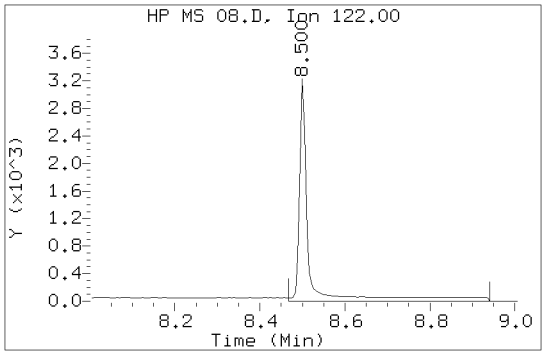

MASS
244.1
AREA
26103
HEIGHT
26396
26-Jun-2023
13:55
ALSHS
Se

**BEFORE**



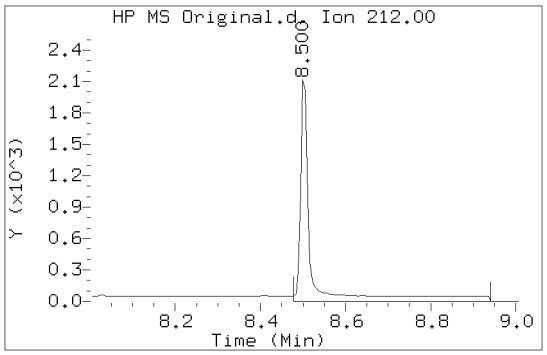

MASS
122
AREA
4885
HEIGHT
3228
26-Jun-2023
12:36
ALSHS
Server

**AFTER**



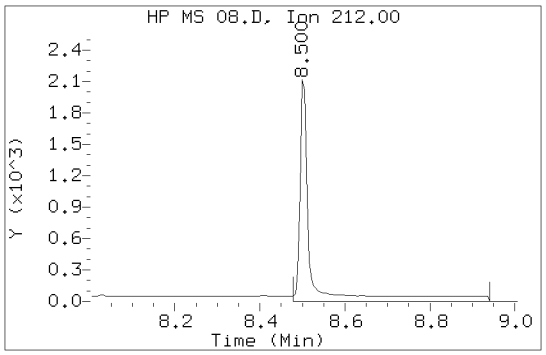

MASS
122
AREA
4885
HEIGHT
3228
26-Jun-2023
13:55
ALSHS
Se

**BEFORE**




MASS
212
AREA
3696
HEIGHT
2118
26-Jun-2023
12:36
ALSHS
Server

**AFTER**




MASS
212
AREA
3696
HEIGHT
2118
26-Jun-2023
13:55
ALSHS
Se

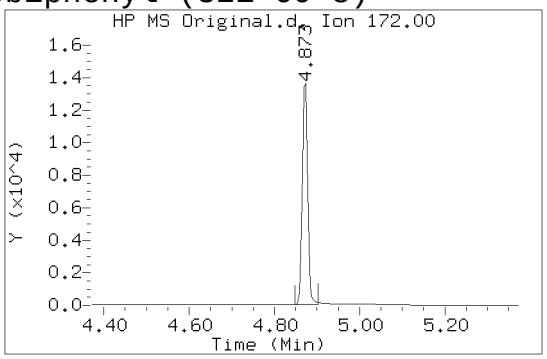
Data File : \\nahstws005\Target\chem\SV6.i\230626.b\08.D
Inj Date : 26-JUN-2023 12:22
InstruID : SV6.i
LabSampID : LCS-195363

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

Reason Code:

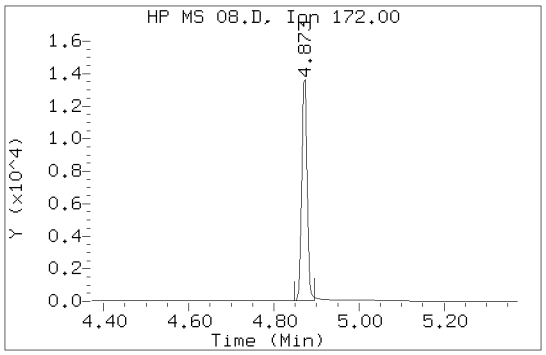
**BEFORE**

MASS
172
AREA
11922
HEIGHT
13581
26-Jun-2023
12:36
ALSHS
Server



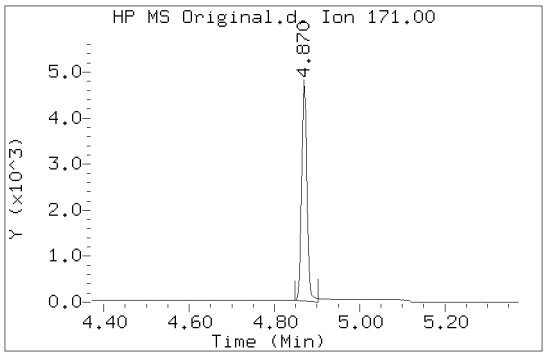

**AFTER**

MASS
172
AREA
11862
HEIGHT
13581
26-Jun-2023
13:55
ALSHS
Se



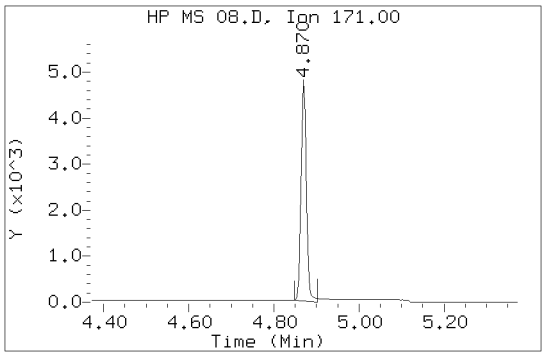

**BEFORE**

MASS
171
AREA
4092
HEIGHT
4802
26-Jun-2023
12:36
ALSHS
Server




**AFTER**

MASS
171
AREA
4092
HEIGHT
4802
26-Jun-2023
13:55
ALSHS
Se



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230626.b\09.D
Lab Smp Id: LCSD-195363 Client Smp ID: LCSD-195363
Inj Date : 26-JUN-2023 13:34
Operator : LG Inst ID: SV6.i
Smp Info : LCSD-195363
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230626.b\DXSIM.m
Meth Date : 26-Jun-2023 10:42 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 9 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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 | 2.771 | 2.771 | (1.000) | 6895 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 3.848 | 3.848 | (1.000) | 24796 | 0.10000 | |
| $ 33 Nitrobenzene-d5 | 82 | 3.222 | 3.222 | (0.837) | 5934 | 0.07877 | 0.07876 |
| * 86 Acenaphthene-d10 | 164 | 5.495 | 5.495 | (1.000) | 14163 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 4.873 | 4.873 | (0.887) | 13429 | 0.09272 | 0.09272 |
| * 126 Phenanthrene-d10 | 188 | 6.923 | 6.923 | (1.000) | 27641 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 9.532 | 9.527 | (1.000) | 34627 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.510 | 8.505 | (0.893) | 28096 | 0.10998 | 0.1100(M) |
| * 198 Perylene-d12 | 264 | 11.294 | 11.294 | (1.000) | 21033 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 1.183 | 1.183 | (0.427) | 1616 | 0.06908 | 0.06908(M) |

QC Flag Legend

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

01196900

Data File: \\nahstws005\Target\chem\SV6.i\230626.b\09.D



Date : 26-JUN-2023 13:34

Client ID: LCSD-195363

Instrument: SV6.i

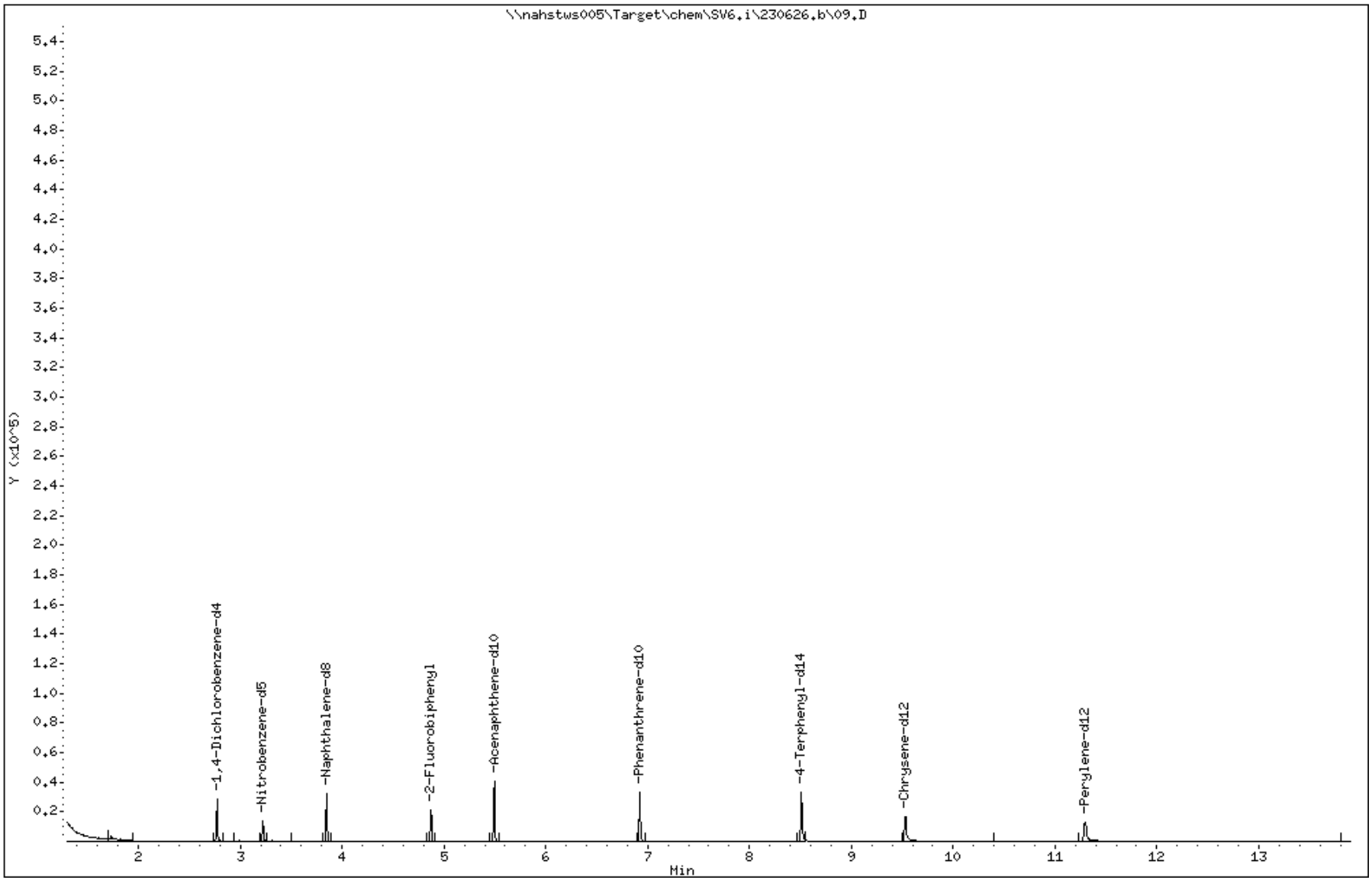
Sample Info: LCSD-195363

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



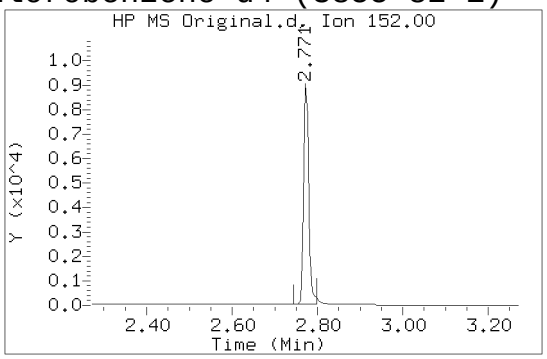
Data File : \\nahstws005\Target\chem\SV6.i\230626.b\09.D
Inj Date : 26-JUN-2023 13:34
InstruID : SV6.i
LabSampID : LCSD-195363

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

Reason Code:

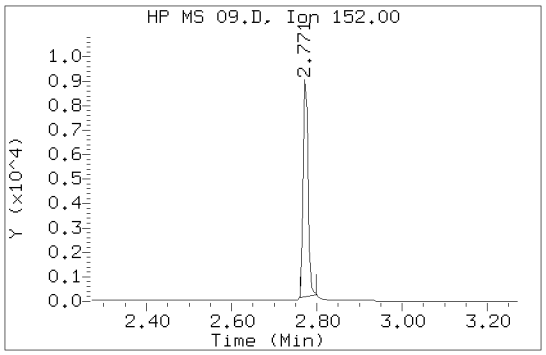
BEFORE

MASS
152
AREA
7324
HEIGHT
9016
26-Jun-2023
13:49
ALSHS
Server



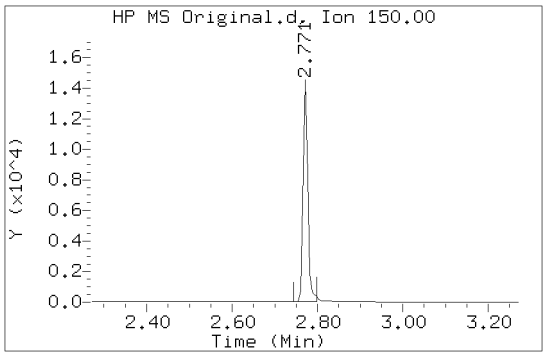

AFTER

MASS
152
AREA
6895
HEIGHT
8870
26-Jun-2023
13:55
ALSHS
Se



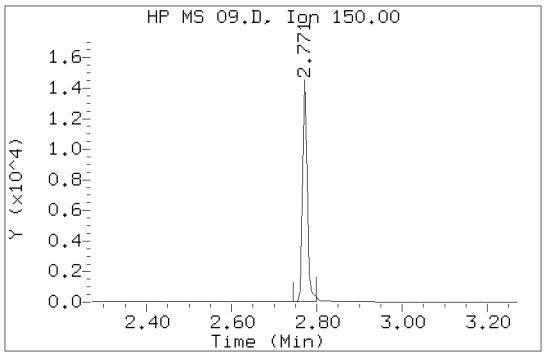

BEFORE

MASS
150
AREA
10689
HEIGHT
14490
26-Jun-2023
13:49
ALSHS
Server



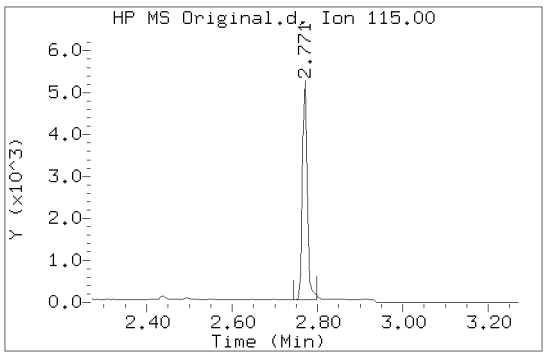

AFTER

MASS
150
AREA
10689
HEIGHT
14490
26-Jun-2023
13:55
ALSHS
Se



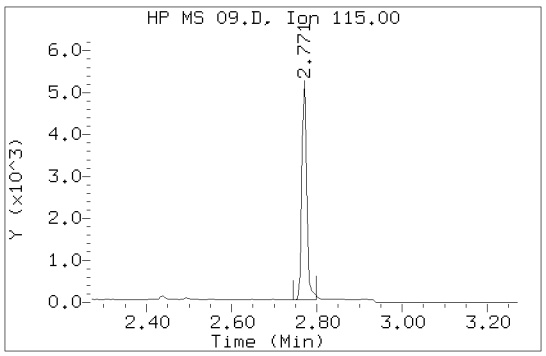

BEFORE

MASS
115
AREA
4044
HEIGHT
5222
26-Jun-2023
13:49
ALSHS
Server




AFTER

MASS
115
AREA
4044
HEIGHT
5222
26-Jun-2023
13:55
ALSHS
Se

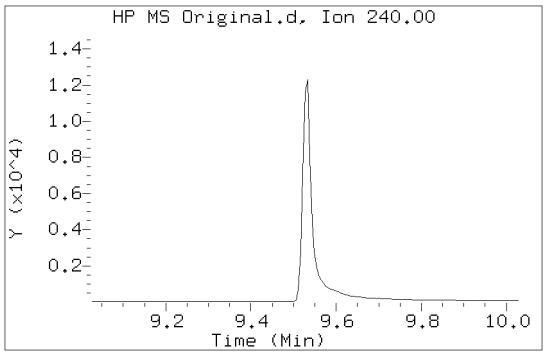



## Chrysene-d12 (1719-03-5)

Reason Code:

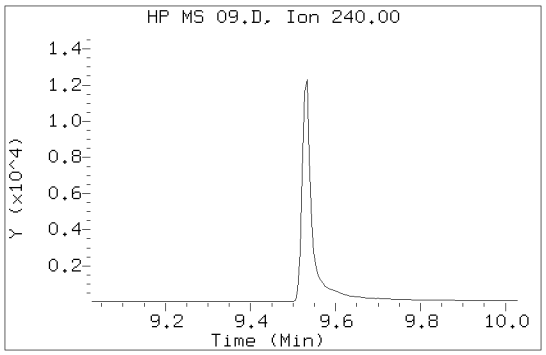
BEFORE

MASS
240
AREA
0
HEIGHT
0
26-Jun-2023
13:49
ALSHS
Server




AFTER

MASS
240
AREA
34627
HEIGHT
12399
26-Jun-2023
13:55
ALSHS
Se



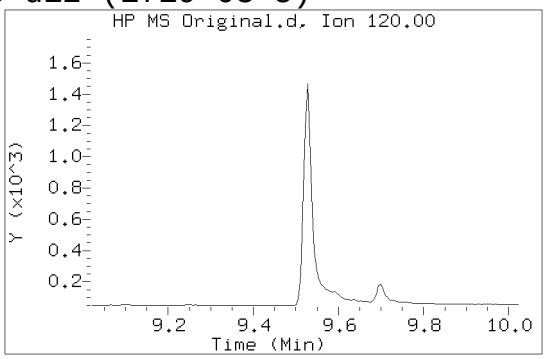
Data File : \\nahstws005\Target\chem\SV6.i\230626.b\09.D
Inj Date : 26-JUN-2023 13:34
InstruID : SV6.i
LabSampID : LCSD-195363

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

Reason Code:

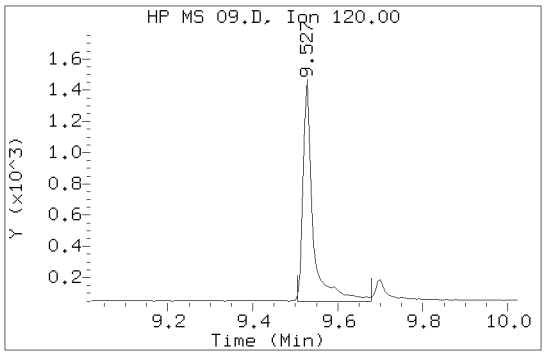
BEFORE

MASS
120
AREA
0
HEIGHT
0
26-Jun-2023
13:49
ALSHS
Server



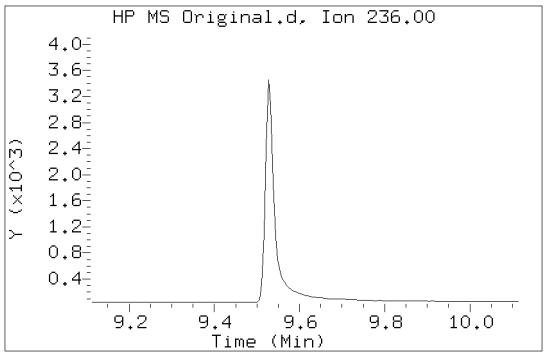

AFTER

MASS
120
AREA
2308
HEIGHT
1419
26-Jun-2023
13:55
ALSHS
Se



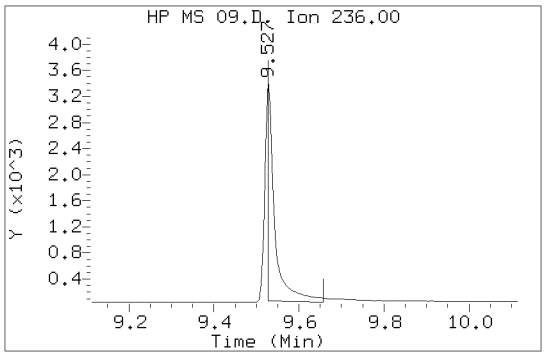

BEFORE

MASS
236
AREA
0
HEIGHT
0
26-Jun-2023
13:49
ALSHS
Server




AFTER

MASS
236
AREA
4173
HEIGHT
3392
26-Jun-2023
13:55
ALSHS
Se

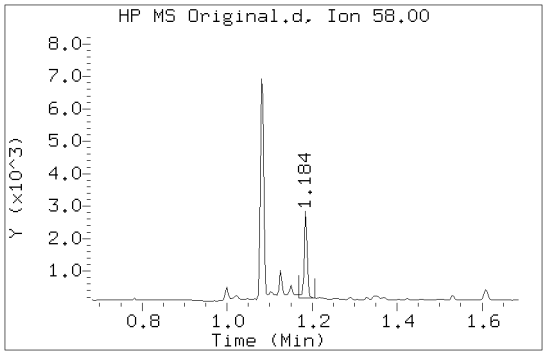



## 1,4-Dioxane ()

Reason Code:

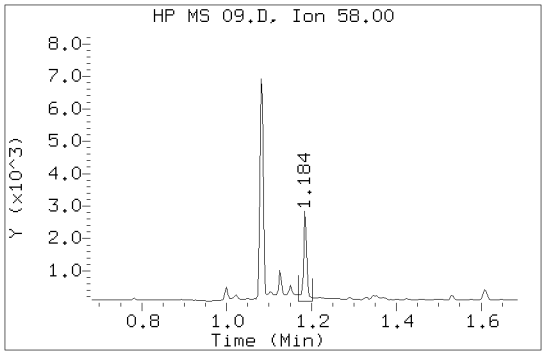
BEFORE

MASS
58
AREA
1395
HEIGHT
2671
26-Jun-2023
13:49
ALSHS
Server



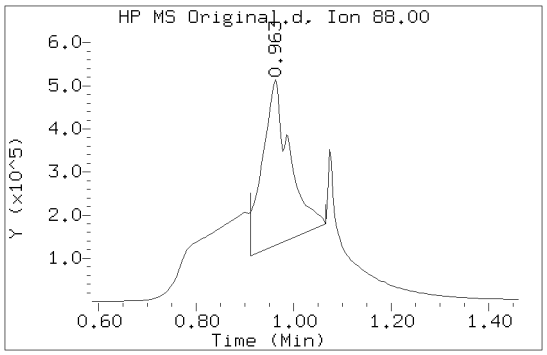

AFTER

MASS
58
AREA
1616
HEIGHT
2771
26-Jun-2023
13:55
ALSHS
Se



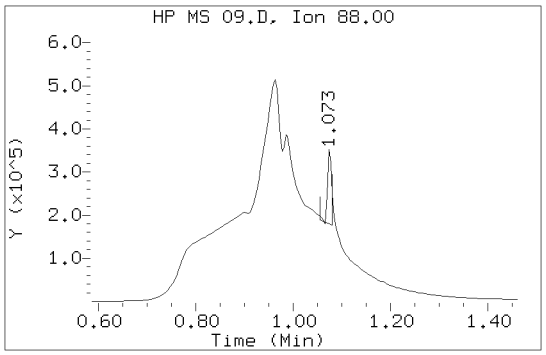

BEFORE

MASS
88
AREA
1500162
HEIGHT
383688
26-Jun-2023
13:49
ALSHS
Server




AFTER

MASS
88
AREA
104570
HEIGHT
172140
26-Jun-2023
13:55
ALSHS
Se

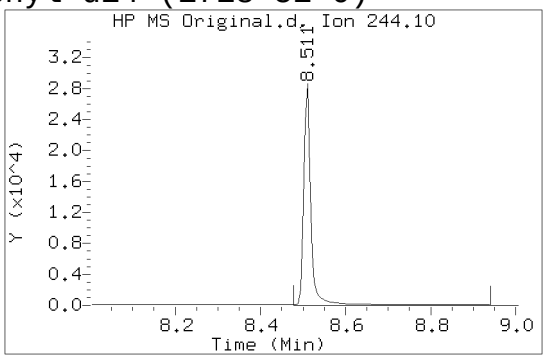


Data File : \\nahstws005\Target\chem\SV6.i\230626.b\09.D
Inj Date : 26-JUN-2023 13:34
InstruID : SV6.i
LabSampID : LCSD-195363

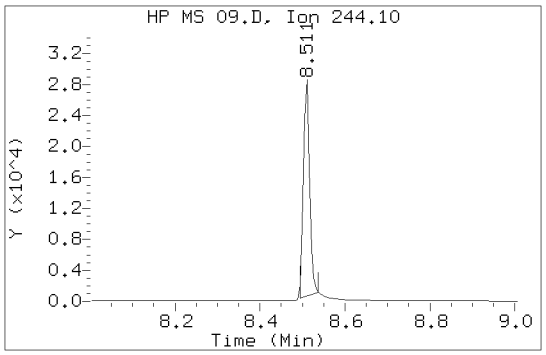
4-Terphenyl-d14 (1718-51-0)

Reason Code:

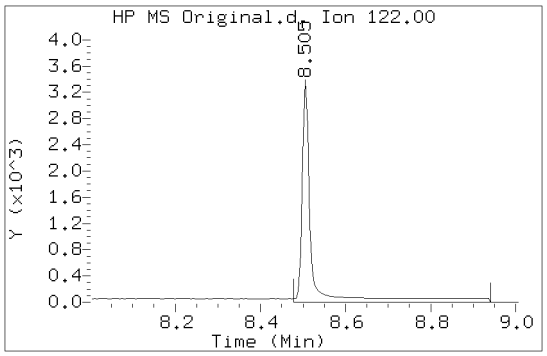
BEFORE
MASS
244.1
AREA
34013
HEIGHT
28632
26-Jun-2023
13:49
ALSHS
Server



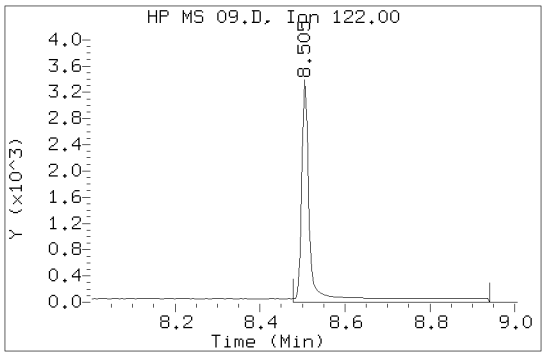

AFTER
MASS
244.1
AREA
28096
HEIGHT
27946
26-Jun-2023
13:55
ALSHS
Se



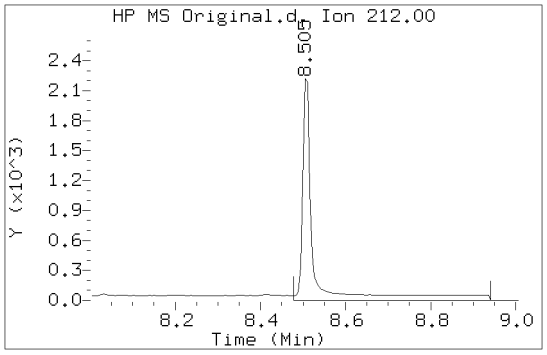

BEFORE
MASS
122
AREA
5275
HEIGHT
3388
26-Jun-2023
13:49
ALSHS
Server



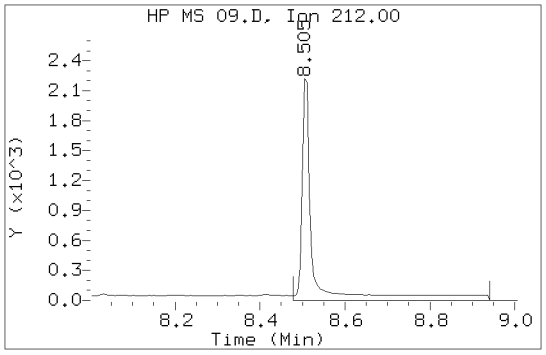

AFTER
MASS
122
AREA
5275
HEIGHT
3388
26-Jun-2023
13:55
ALSHS
Se




BEFORE
MASS
212
AREA
3974
HEIGHT
2220
26-Jun-2023
13:49
ALSHS
Server




AFTER
MASS
212
AREA
3974
HEIGHT
2220
26-Jun-2023
13:55
ALSHS
Se



Data File: \\nahstws005\Target\chem\SV6.i\230626.b\10.D Page 1
Report Date: 26-Jun-2023 14:07

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230626.b\10.D
Lab Smp Id: HS23061096-02 Client Smp ID: HS23061096-02
Inj Date : 26-JUN-2023 13:52
Operator : LG Inst ID: SV6.i
Smp Info : HS23061096-02
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230626.b\DXSIM.m
Meth Date : 26-Jun-2023 10:42 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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 | 2.776 | 2.771 | (1.000) | 7466 | 0.10000 | | (a) |
| * 45 Naphthalene-d8 | 136 | 3.848 | 3.848 | (1.000) | 24749 | 0.10000 | | |
| $ 33 Nitrobenzene-d5 | 82 | 3.227 | 3.222 | (0.839) | 5976 | 0.07947 | 0.07947(Q) | |
| * 86 Acenaphthene-d10 | 164 | 5.495 | 5.495 | (1.000) | 14140 | 0.10000 | | |
| $ 69 2-Fluorobiphenyl | 172 | 4.873 | 4.873 | (0.887) | 10787 | 0.07460 | 0.07460 | |
| * 126 Phenanthrene-d10 | 188 | 6.918 | 6.923 | (1.000) | 27726 | 0.10000 | | |
| $ 158 4-Terphenyl-d14 | 244 | 8.505 | 8.505 | (1.000) | 15385 | | | (aR) |
| * 198 Perylene-d12 | 264 | 11.288 | 11.294 | (1.000) | 19469 | 0.10000 | | |
| 1 1,4-Dioxane | 58 | 1.187 | 1.183 | (0.428) | 403 | 0.01591 | 0.01591(Q) | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

01196905

Data File: \\nahstws005\Target\chem\SV6.i\230626.b\10.D



Date : 26-JUN-2023 13:52

Client ID: HS23061096-02

Instrument: SV6.i

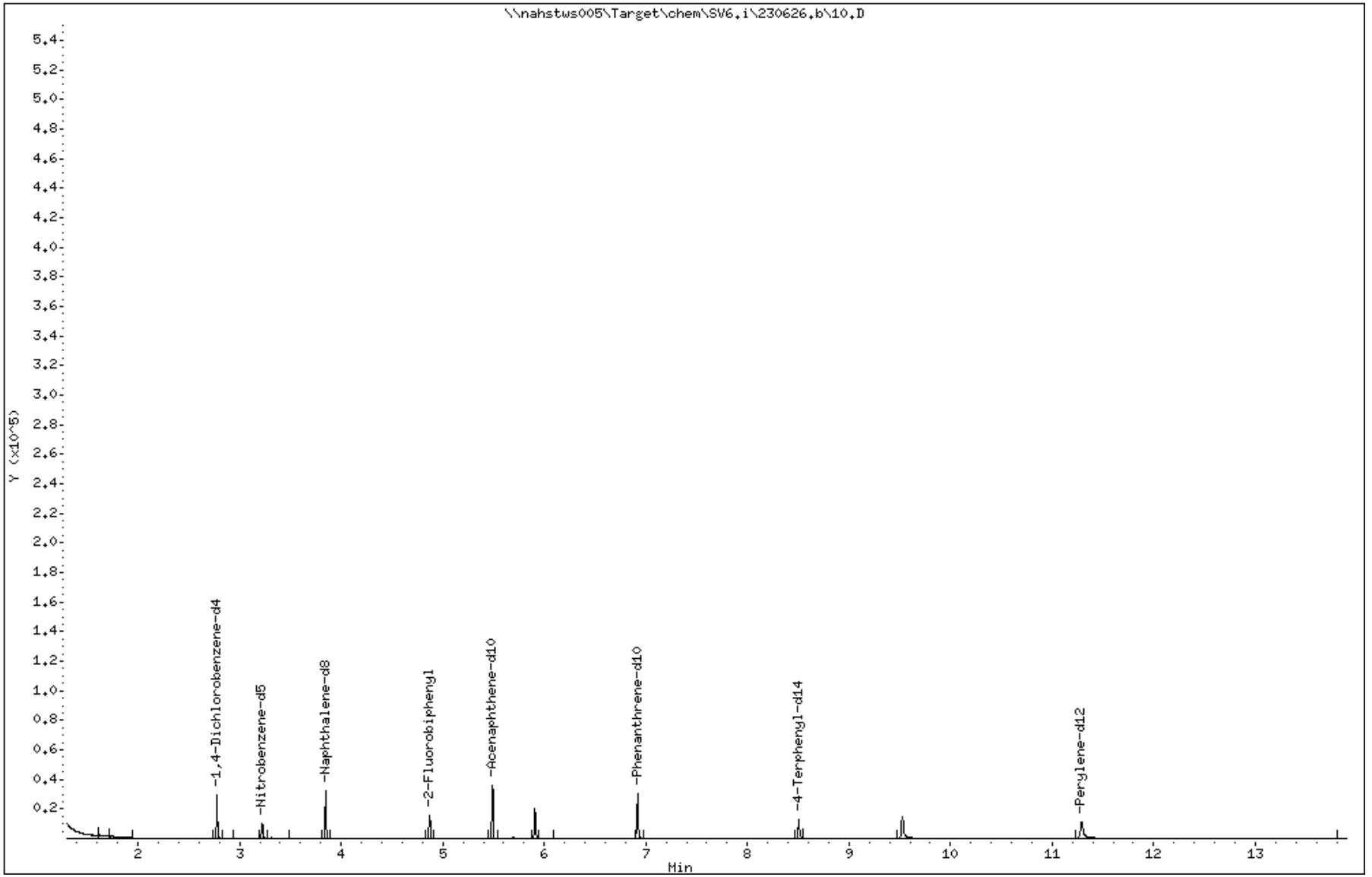
Sample Info: HS23061096-02

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\nahstws005\Target\chem\SV6.i\230626.b\10.D

Date : 26-JUN-2023 13:52

Client ID: HS23061096-02

Instrument: SV6.i

Sample Info: HS23061096-02

Purge Volume: 1000.0

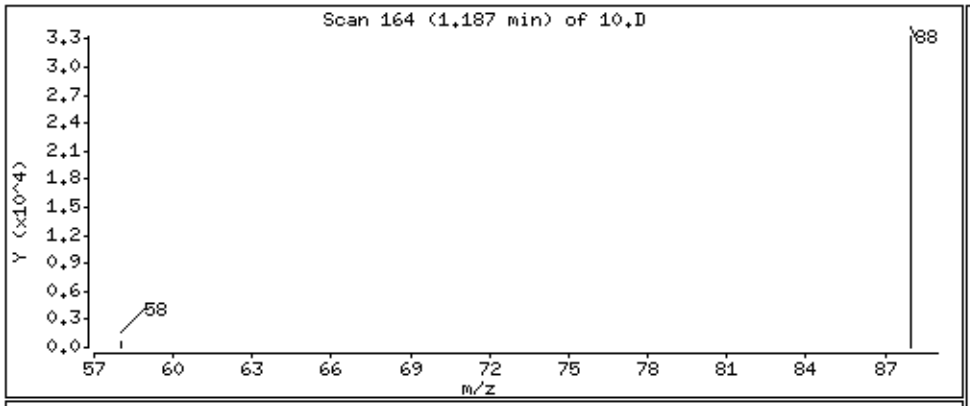
Operator: LG

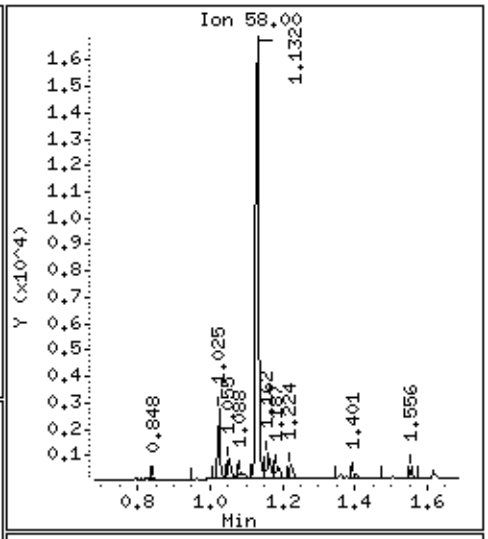
Column phase: RTX-5SIL MS

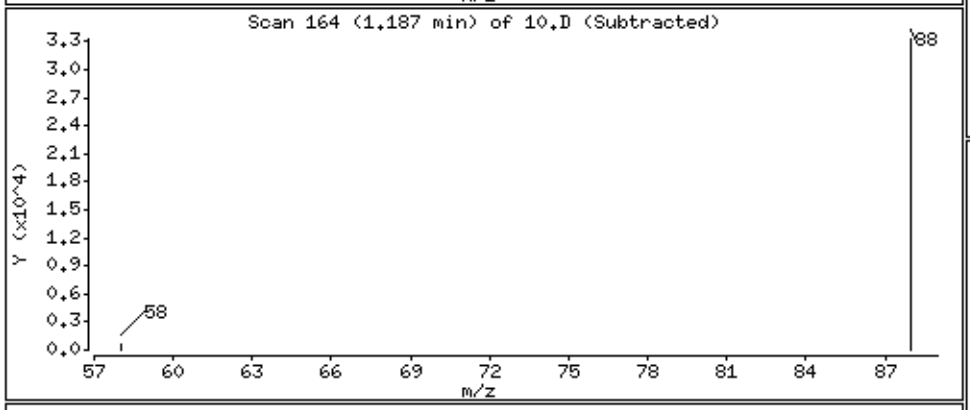
Column diameter: 0.28

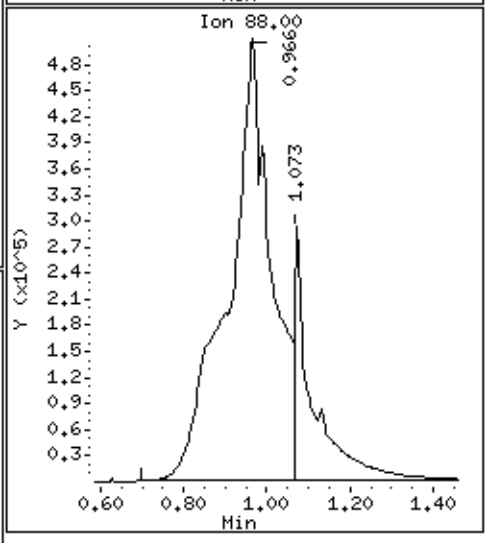
1 1,4-Dioxane

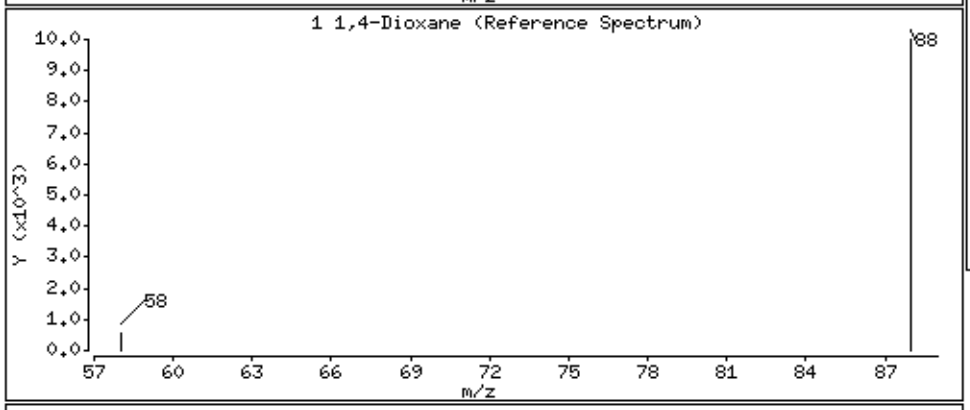
Concentration: 0.01591 ug/L

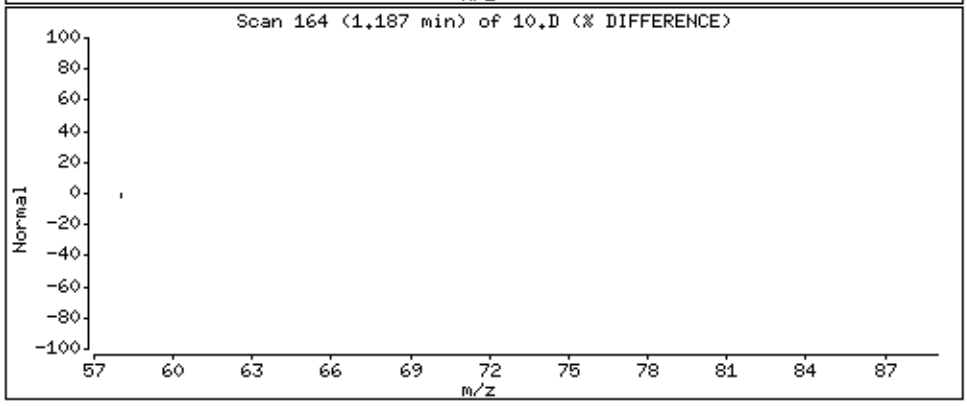


Data File : \\nahstws005\Target\chem\SV6.i\230626.b\10.D
Inj Date  : 26-JUN-2023 13:52
InstruID  : SV6.i
LabSampID : HS23061096-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\SV6.i\230626.b\11.D Page 1
Report Date: 29-Jun-2023 16:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230626.b\11.D
Lab Smp Id: HS23061096-03 Client Smp ID: HS23061096-03
Inj Date : 26-JUN-2023 14:10
Operator : LG Inst ID: SV6.i
Smp Info : HS23061096-03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230626.b\DXSIM.m
Meth Date : 29-Jun-2023 16:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 2.771 | 2.771 | (1.000) | 5142 | 0.10000 | (a) |
| * 45 Naphthalene-d8 | 136 | 3.844 | 3.848 | (1.000) | 16886 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.222 | 3.222 | (0.838) | 3671 | 0.07155 | 0.07155(M) |
| * 86 Acenaphthene-d10 | 164 | 5.495 | 5.495 | (1.000) | 9514 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 4.873 | 4.873 | (0.887) | 8125 | 0.08351 | 0.08351 |
| * 126 Phenanthrene-d10 | 188 | 6.918 | 6.923 | (1.000) | 18650 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 9.521 | 9.527 | (1.000) | 14039 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.505 | 8.505 | (0.893) | 9238 | 0.08919 | 0.08919(M) |
| * 198 Perylene-d12 | 264 | 11.288 | 11.294 | (1.000) | 12548 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 1.194 | 1.183 | (0.431) | 344 | 0.01972 | 0.01972(M) |

QC Flag Legend

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

01196909

Data File: \\NAHSTWS005\Target\chem\SV6.i\230626.b\11.D



Date : 26-JUN-2023 14:10

Client ID: HS23061096-03

Instrument: SV6.i

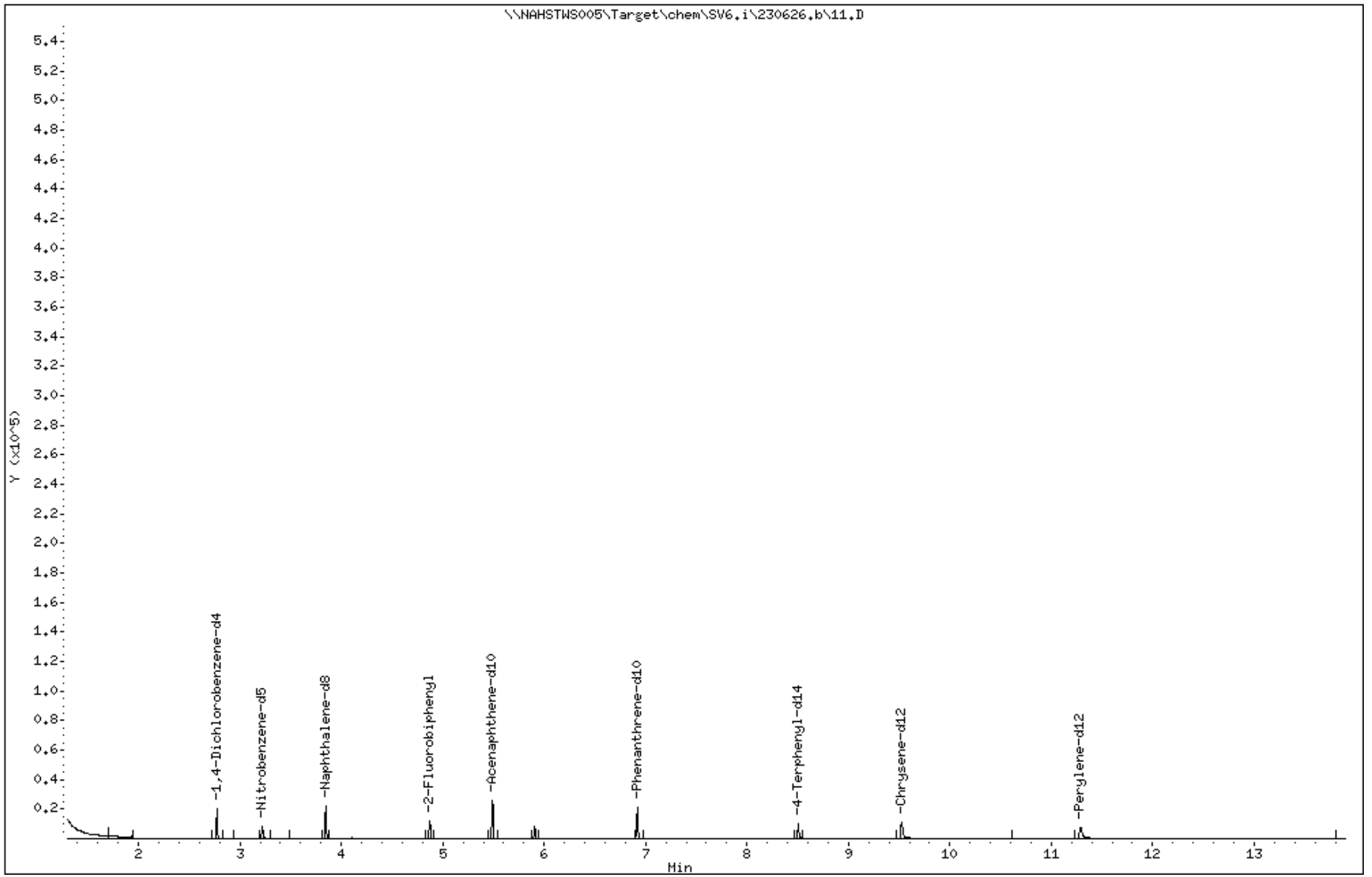
Sample Info: HS23061096-03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\230626.b\11.D

Date : 26-JUN-2023 14:10

Client ID: HS23061096-03

Instrument: SV6.i

Sample Info: HS23061096-03

Purge Volume: 1000.0

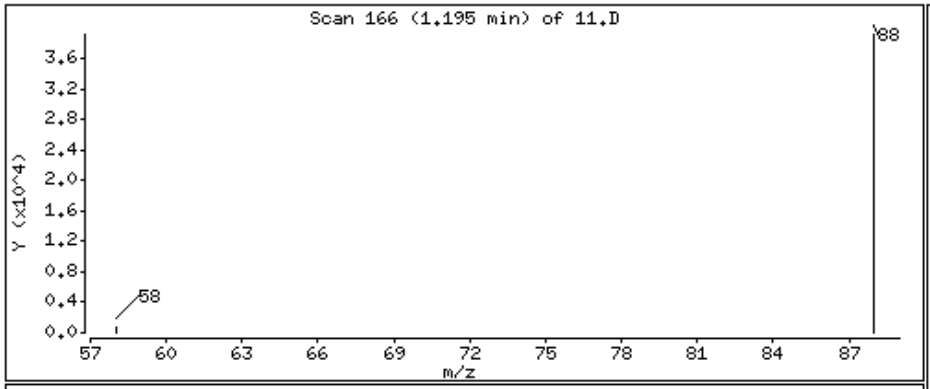
Operator: LG

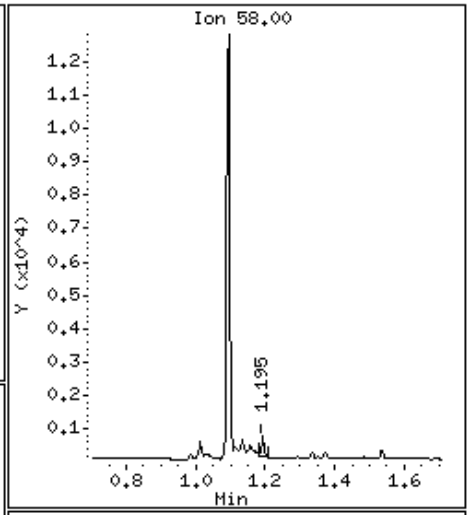
Column phase: RTX-5SIL MS

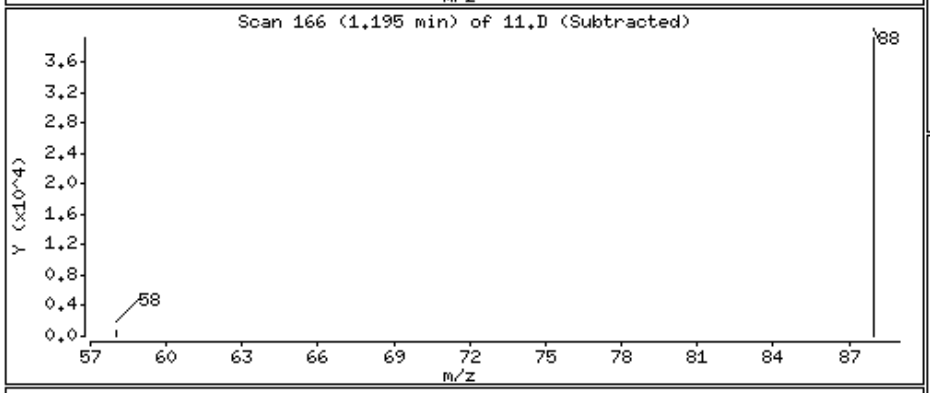
Column diameter: 0.28

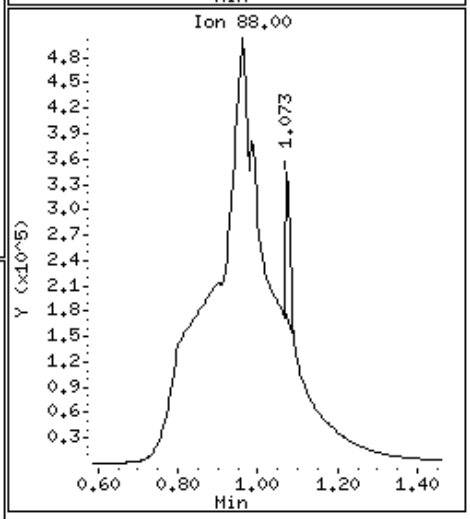
1 1,4-Dioxane

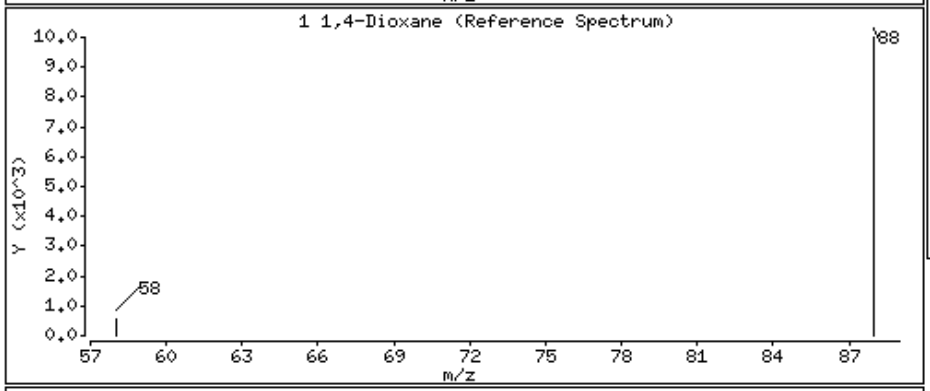
Concentration: 0.01972 ug/L

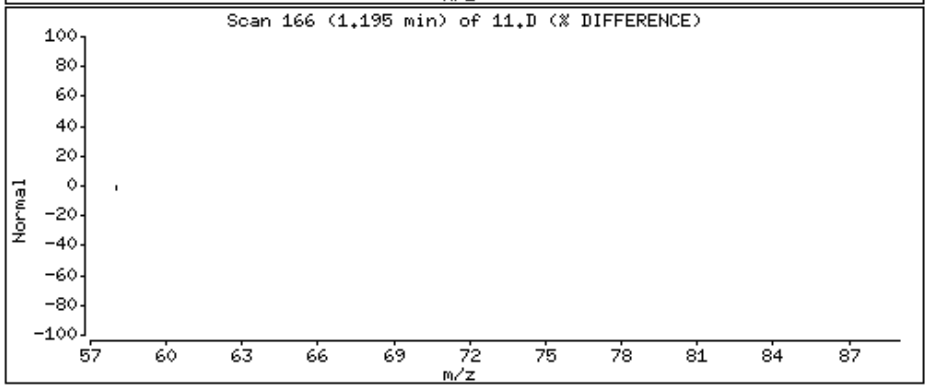


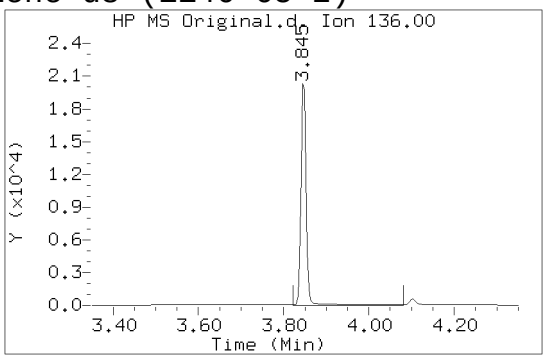
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\11.D
Inj Date : 26-JUN-2023 14:10
InstruID : SV6.i
LabSampID : HS23061096-03

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

Reason Code:

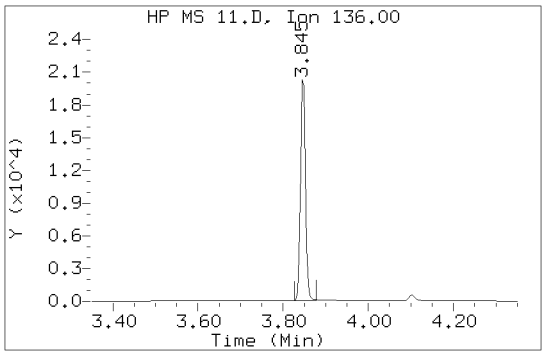
**BEFORE**

MASS
136
AREA
18045
HEIGHT
20312
26-Jun-2023
14:24
ALSHS
Server



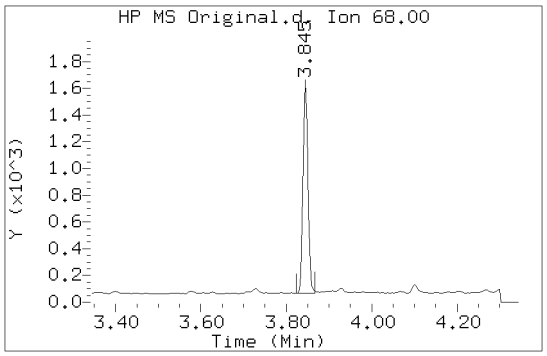

**AFTER**

MASS
136
AREA
16886
HEIGHT
20251
29-Jun-2023
16:26
ALSHS
Ser



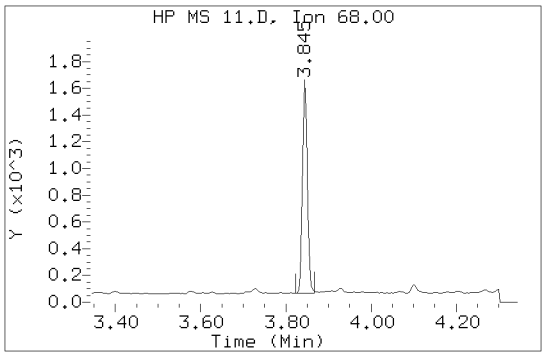

**BEFORE**

MASS
68
AREA
1262
HEIGHT
1597
26-Jun-2023
14:24
ALSHS
Server




**AFTER**

MASS
68
AREA
1262
HEIGHT
1597
29-Jun-2023
16:26
ALSHS
Ser

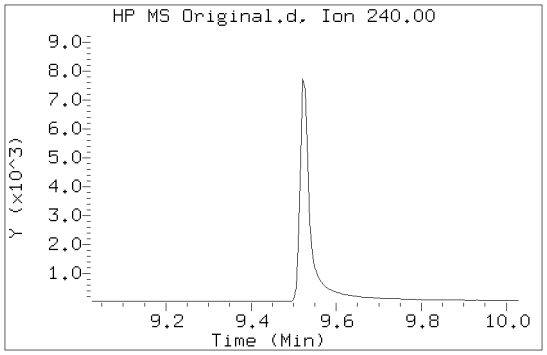



## Chrysene-d12 (1719-03-5)

Reason Code:

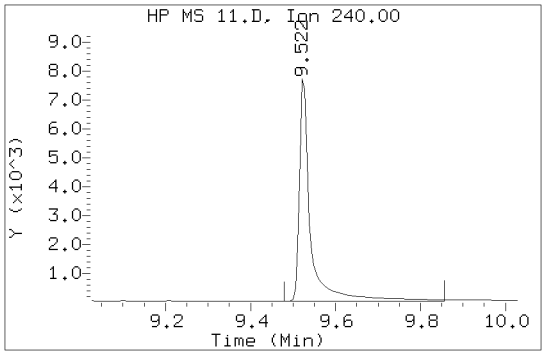
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
26-Jun-2023
14:24
ALSHS
Server



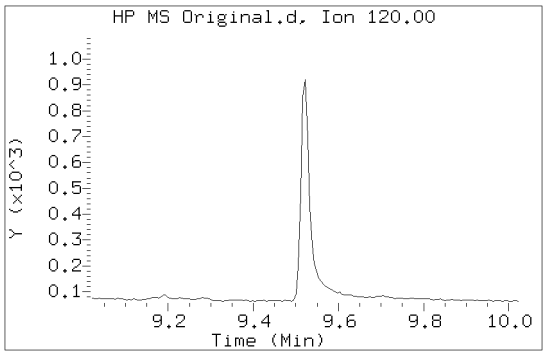

**AFTER**

MASS
240
AREA
14039
HEIGHT
7695
29-Jun-2023
16:26
ALSHS
Ser



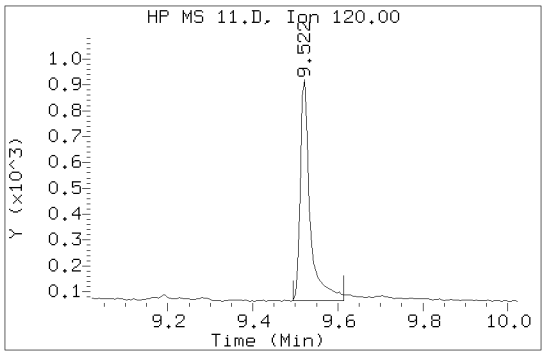

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
26-Jun-2023
14:24
ALSHS
Server




**AFTER**

MASS
120
AREA
1362
HEIGHT
854
29-Jun-2023
16:26
ALSHS
Ser



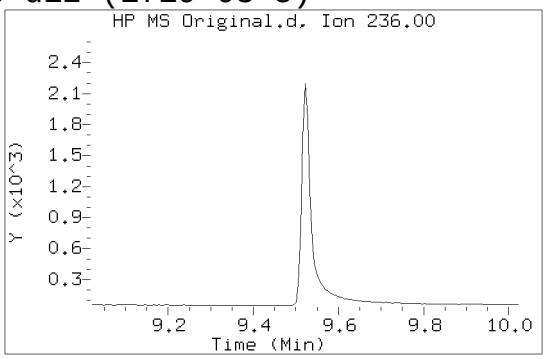
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\11.D
Inj Date : 26-JUN-2023 14:10
InstruID : SV6.i
LabSampID : HS23061096-03

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

Reason Code:

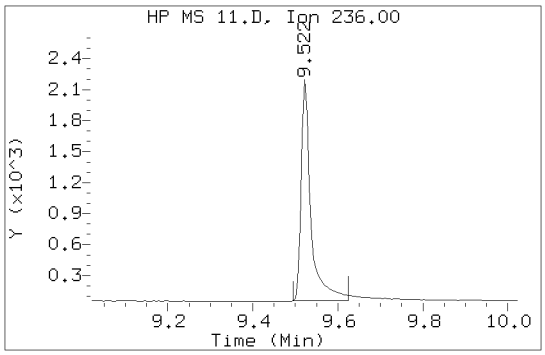
**BEFORE**

MASS
236
AREA
0
HEIGHT
0
26-Jun-2023
14:24
ALSHS
Server




**AFTER**

MASS
236
AREA
3393
HEIGHT
2139
29-Jun-2023
16:26
ALSHS
Ser

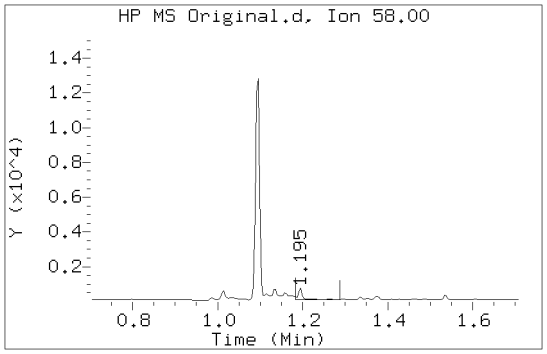



## 1,4-Dioxane ()

Reason Code:

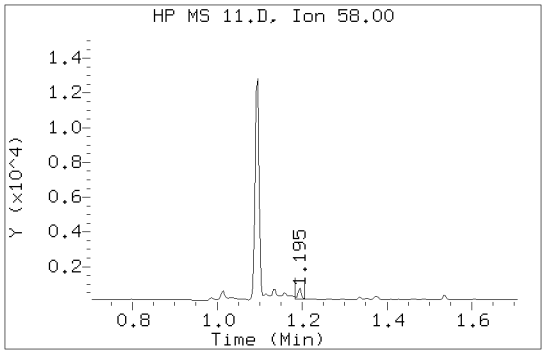
**BEFORE**

MASS
58
AREA
451
HEIGHT
647
26-Jun-2023
14:24
ALSHS
Server



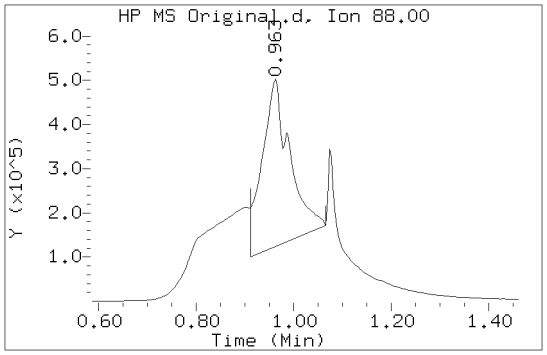

**AFTER**

MASS
58
AREA
344
HEIGHT
610
29-Jun-2023
16:26
ALSHS
Ser



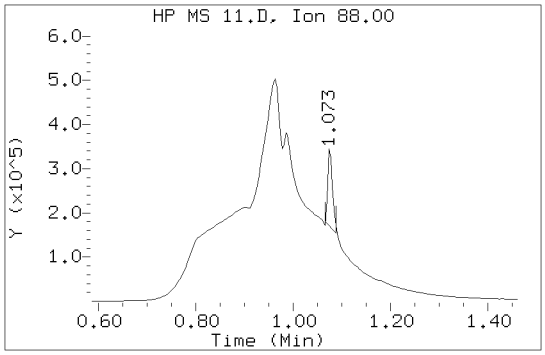

**BEFORE**

MASS
88
AREA
1503214
HEIGHT
378648
26-Jun-2023
14:24
ALSHS
Server




**AFTER**

MASS
88
AREA
119034
HEIGHT
173178
29-Jun-2023
16:26
ALSHS
Ser

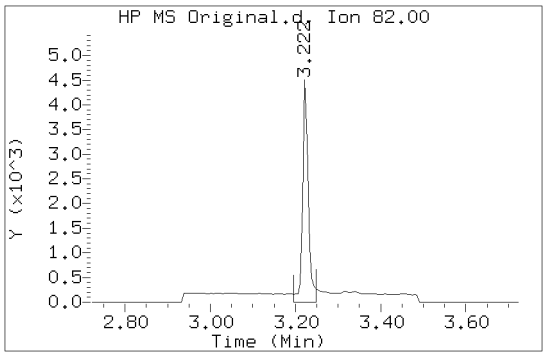



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

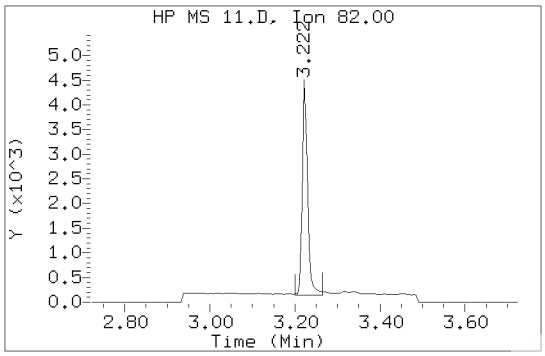
**BEFORE**

MASS
82
AREA
4132
HEIGHT
4505
26-Jun-2023
14:24
ALSHS
Server




**AFTER**

MASS
82
AREA
3671
HEIGHT
4356
29-Jun-2023
16:26
ALSHS
Ser



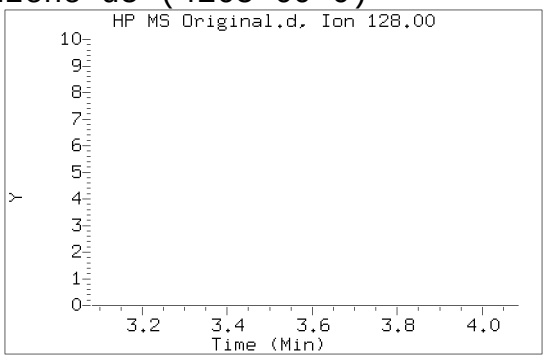
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\11.D
Inj Date : 26-JUN-2023 14:10
InstruID : SV6.i
LabSampID : HS23061096-03

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

Reason Code:

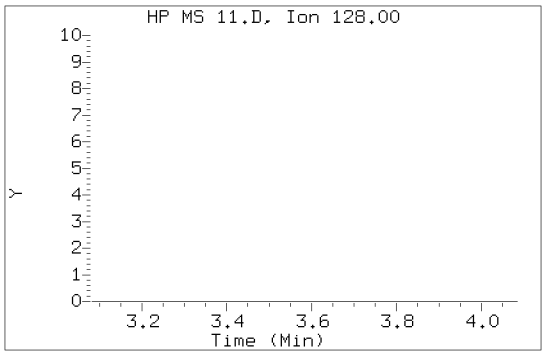
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jun-2023
14:24
ALSHS
Server



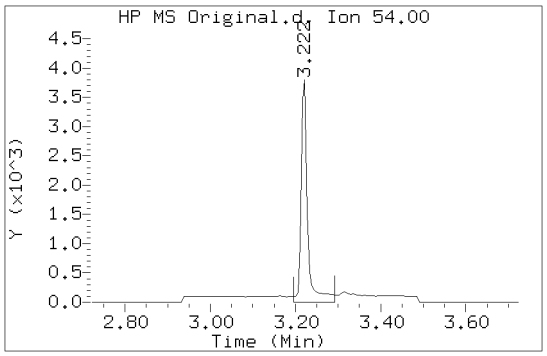

AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
16:26
ALSHS
Ser



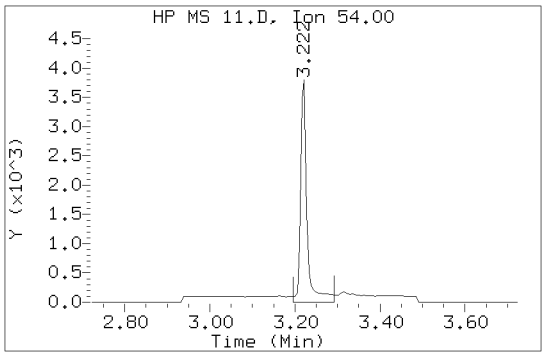

BEFORE

MASS
54
AREA
3999
HEIGHT
3798
26-Jun-2023
14:24
ALSHS
Server




AFTER

MASS
54
AREA
3999
HEIGHT
3798
29-Jun-2023
16:26
ALSHS
Ser

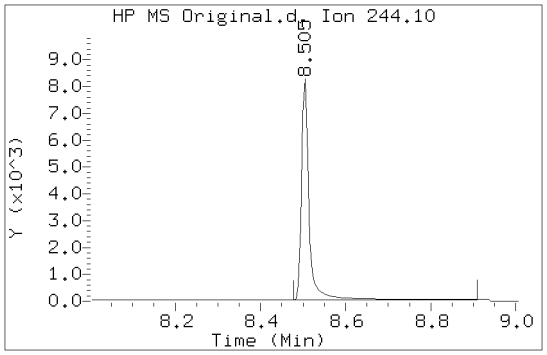



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

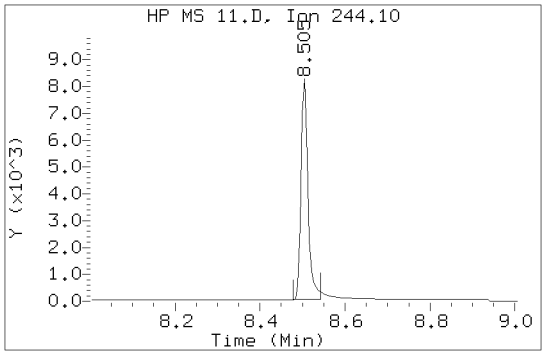
BEFORE

MASS
244.1
AREA
10080
HEIGHT
8231
26-Jun-2023
14:24
ALSHS
Server



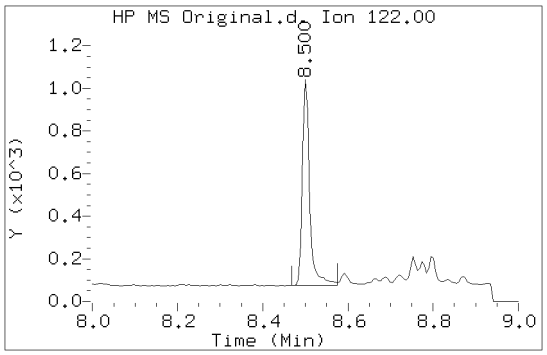

AFTER

MASS
244.1
AREA
9238
HEIGHT
8214
29-Jun-2023
16:26
ALSHS
Ser



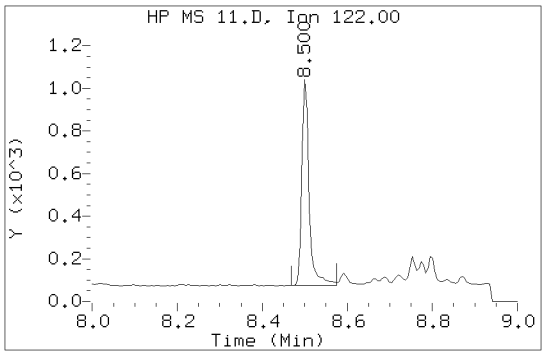

BEFORE

MASS
122
AREA
1137
HEIGHT
966
26-Jun-2023
14:24
ALSHS
Server




AFTER

MASS
122
AREA
1137
HEIGHT
966
29-Jun-2023
16:26
ALSHS
Ser



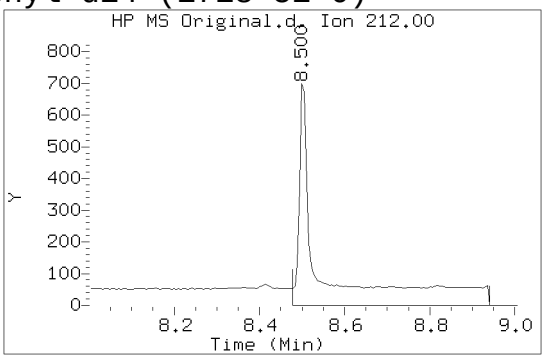
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\11.D
Inj Date : 26-JUN-2023 14:10
InstruID : SV6.i
LabSampID : HS23061096-03

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

Reason Code:

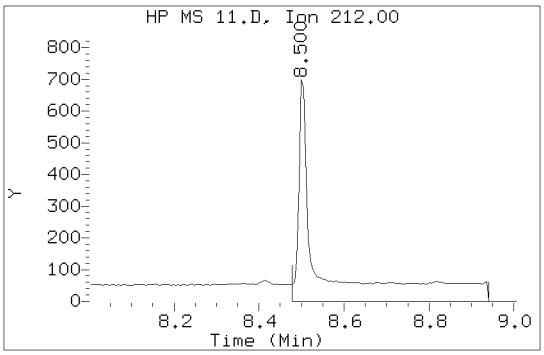
BEFORE

MASS
212
AREA
2348
HEIGHT
699
26-Jun-2023
14:24
ALSHS
Server




AFTER

MASS
212
AREA
2348
HEIGHT
699
29-Jun-2023
16:26
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230626.b\13.D
Lab Smp Id: HS23061096-07 Client Smp ID: HS23061096-07
Inj Date : 26-JUN-2023 14:46
Operator : LG Inst ID: SV6.i
Smp Info : HS23061096-07
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230626.b\DXSIM.m
Meth Date : 29-Jun-2023 16:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 2.776 | 2.771 | (1.000) | 5469 | 0.10000 | (a) |
| * 45 Naphthalene-d8 | 136 | 3.848 | 3.848 | (1.000) | 17755 | 0.10000 | |
| $ 33 Nitrobenzene-d5 | 82 | 3.222 | 3.222 | (0.837) | 3958 | 0.07337 | 0.07337(M) |
| * 86 Acenaphthene-d10 | 164 | 5.495 | 5.495 | (1.000) | 9974 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 4.869 | 4.873 | (0.886) | 9163 | 0.08984 | 0.08984 |
| * 126 Phenanthrene-d10 | 188 | 6.918 | 6.923 | (1.000) | 19531 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 9.522 | 9.527 | (1.000) | 14827 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.505 | 8.505 | (0.893) | 9719 | 0.08885 | 0.08885(M) |
| * 198 Perylene-d12 | 264 | 11.289 | 11.294 | (1.000) | 13033 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 1.206 | 1.183 | (0.434) | 6381 | 0.34387 | 0.3439(M) |

QC Flag Legend

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

01196916

Data File: \\NAHSTWS005\Target\chem\SV6.i\230626.b\13.D



Date : 26-JUN-2023 14:46

Client ID: HS23061096-07

Instrument: SV6.i

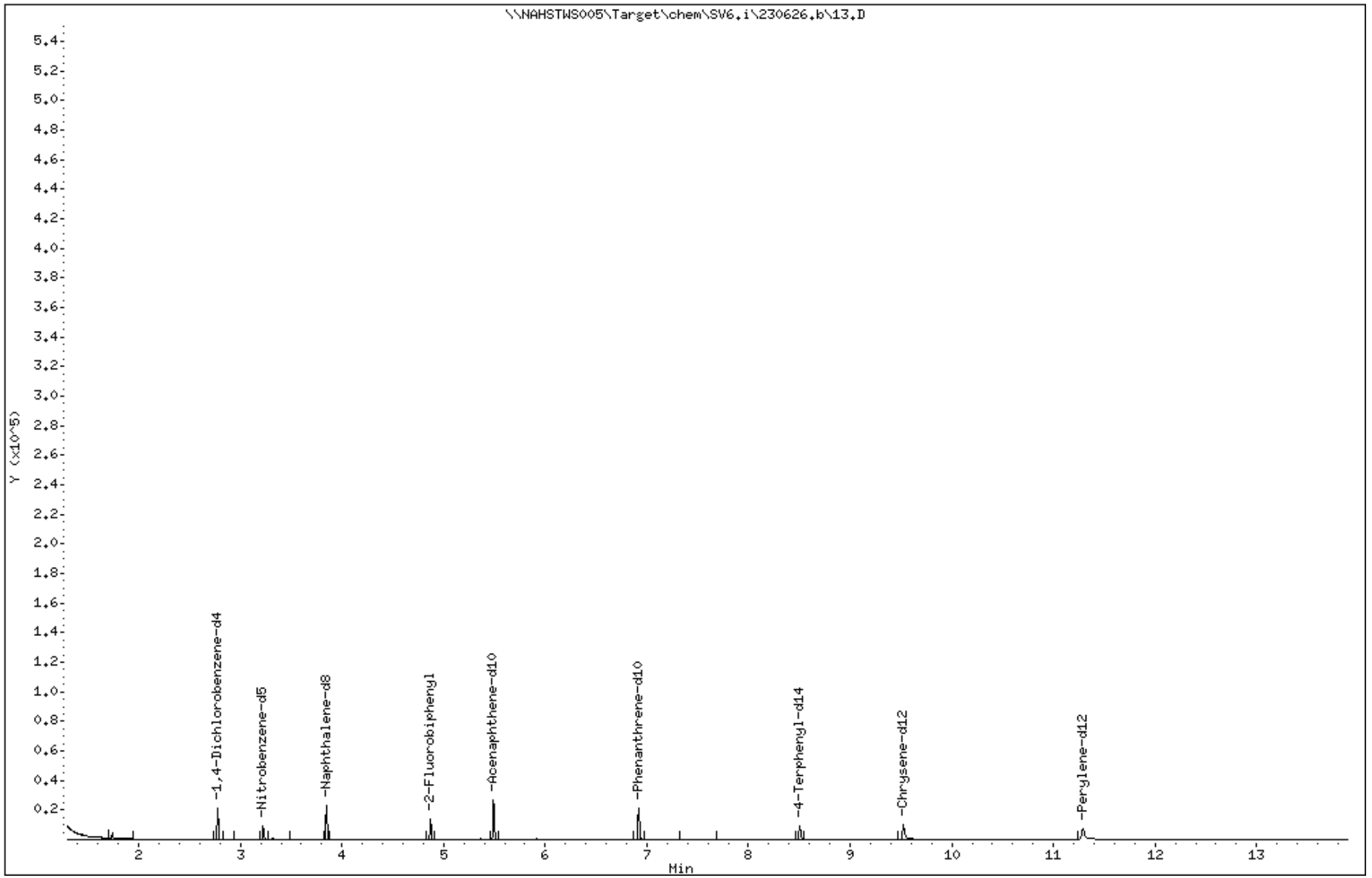
Sample Info: HS23061096-07

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\230626.b\13.D

Date : 26-JUN-2023 14:46

Client ID: HS23061096-07

Instrument: SV6.i

Sample Info: HS23061096-07

Purge Volume: 1000.0

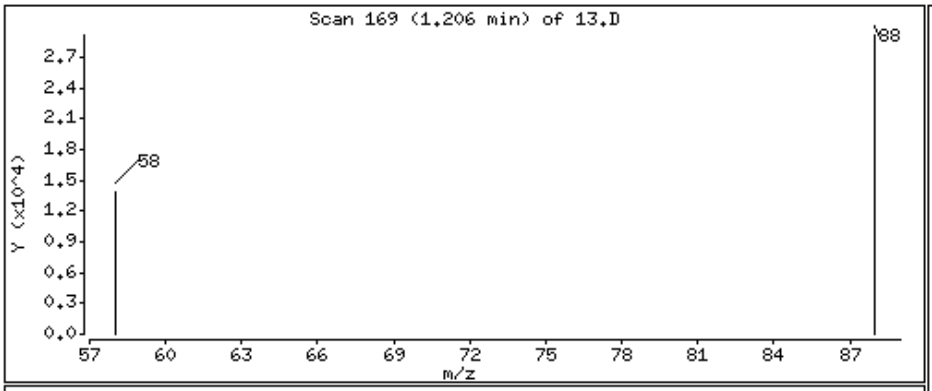
Operator: LG

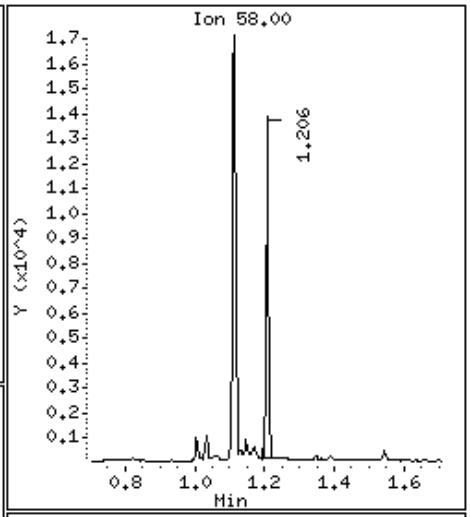
Column phase: RTX-5SIL MS

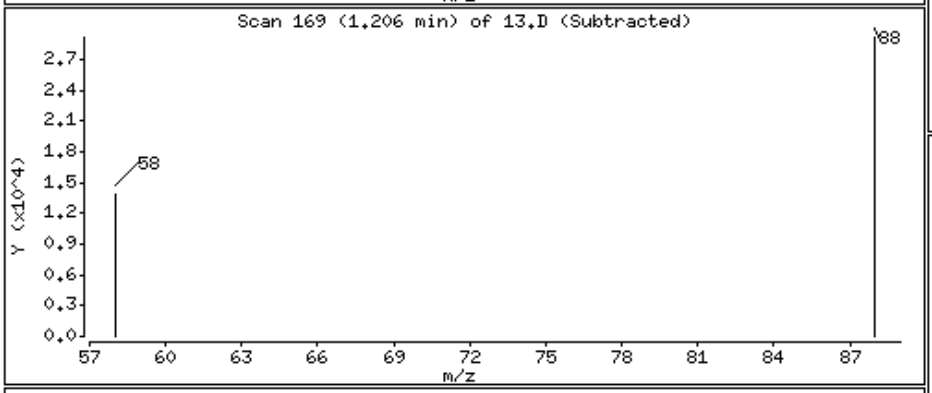
Column diameter: 0.28

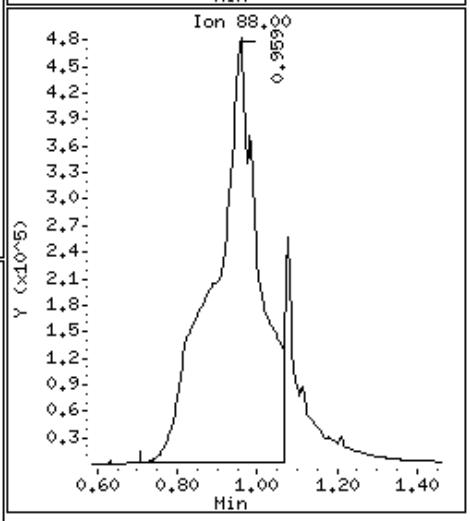
1 1,4-Dioxane

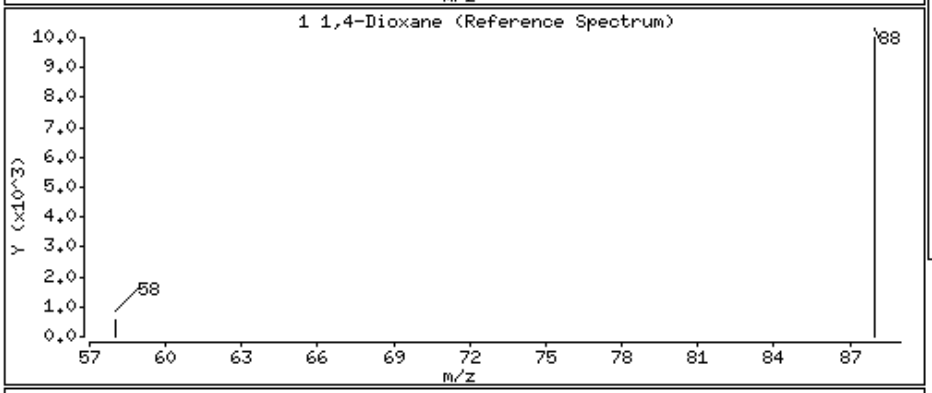
Concentration: 0.3439 ug/L

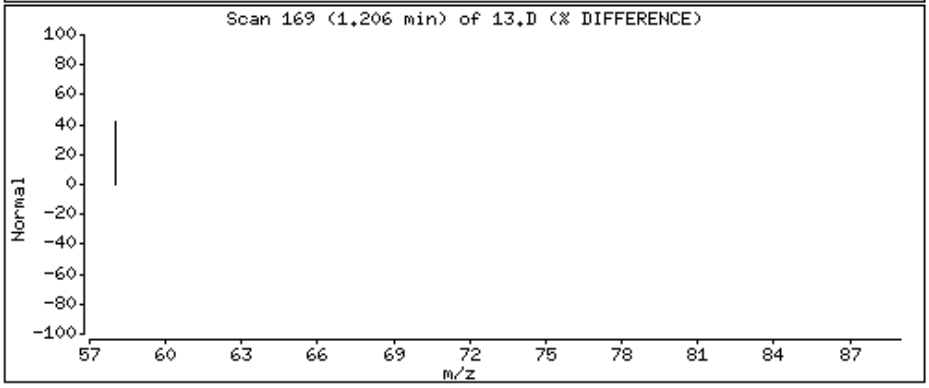


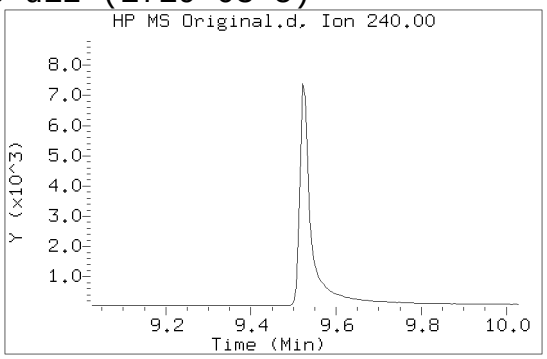
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\13.D
Inj Date : 26-JUN-2023 14:46
InstruID : SV6.i
LabSampID : HS23061096-07

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

Reason Code:

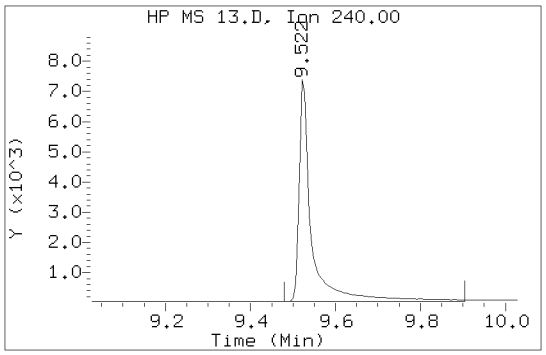
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
26-Jun-2023
15:02
ALSHS
Server



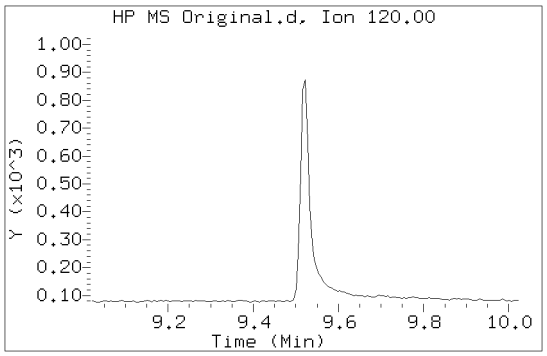

**AFTER**

MASS
240
AREA
14827
HEIGHT
7338
29-Jun-2023
16:26
ALSHS
Ser



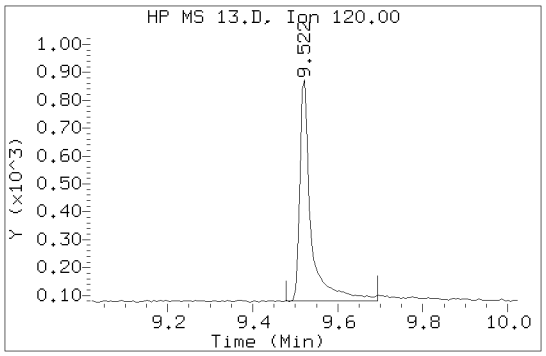

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
26-Jun-2023
15:02
ALSHS
Server



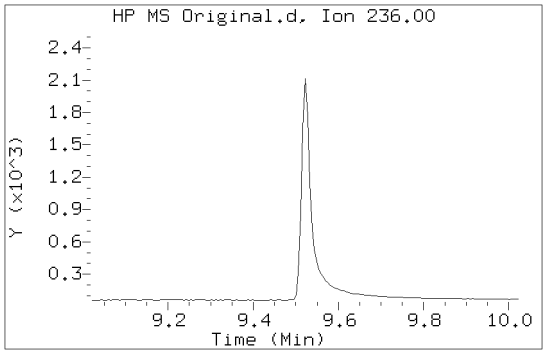

**AFTER**

MASS
120
AREA
1451
HEIGHT
792
29-Jun-2023
16:26
ALSHS
Ser



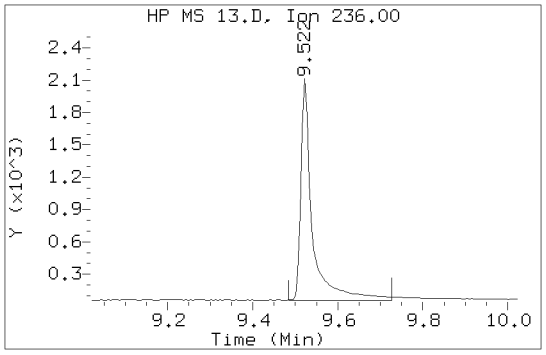

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
26-Jun-2023
15:02
ALSHS
Server




**AFTER**

MASS
236
AREA
3842
HEIGHT
2057
29-Jun-2023
16:26
ALSHS
Ser

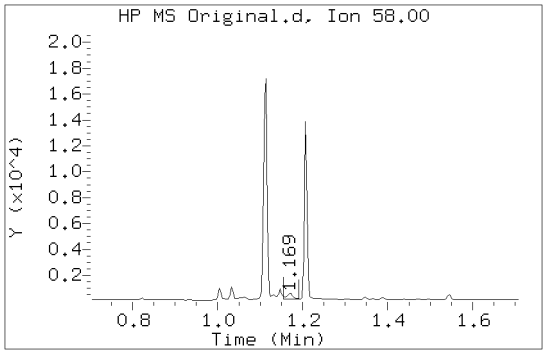



## 1,4-Dioxane ()

Reason Code:

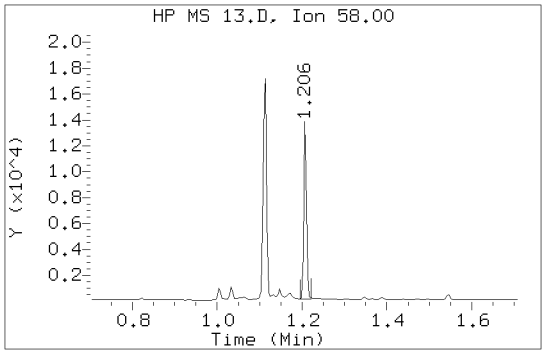
**BEFORE**

MASS
58
AREA
485
HEIGHT
450
26-Jun-2023
15:02
ALSHS
Server




**AFTER**

MASS
58
AREA
6381
HEIGHT
13703
29-Jun-2023
16:26
ALSHS
Ser



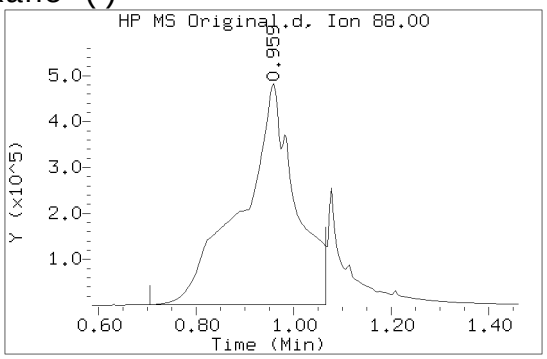
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\13.D
Inj Date : 26-JUN-2023 14:46
InstruID : SV6.i
LabSampID : HS23061096-07

## 1,4-Dioxane ()

Reason Code:

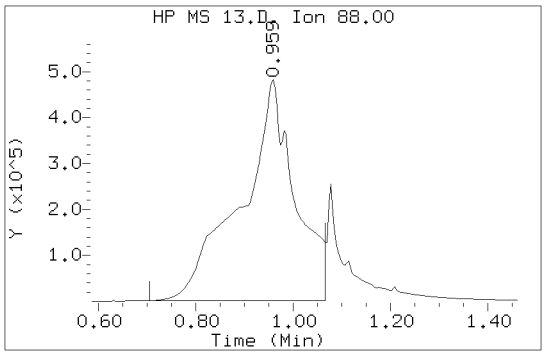
BEFORE

MASS
88
AREA
3695419
HEIGHT
481000
26-Jun-2023
15:02
ALSHS
Server




AFTER

MASS
88
AREA
3695419
HEIGHT
481000
29-Jun-2023
16:26
ALSHS
Ser

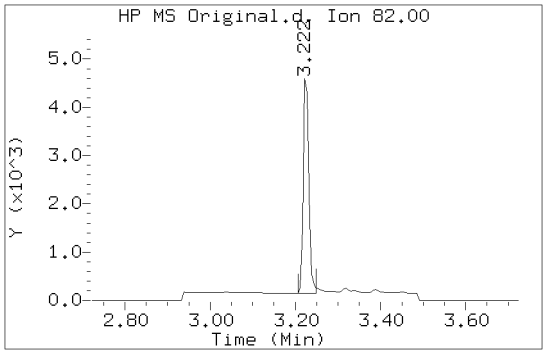



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

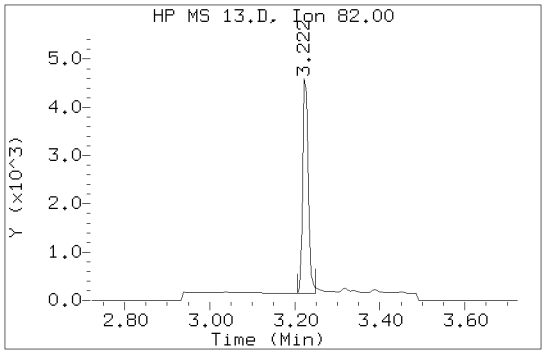
BEFORE

MASS
82
AREA
3958
HEIGHT
4449
26-Jun-2023
15:02
ALSHS
Server



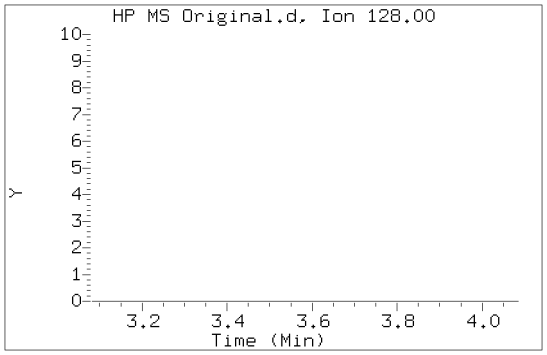

AFTER

MASS
82
AREA
3958
HEIGHT
4449
29-Jun-2023
16:26
ALSHS
Ser



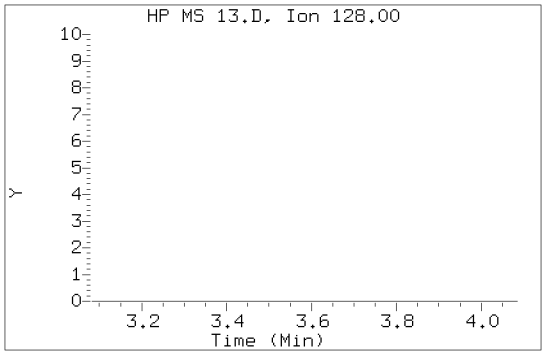

BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jun-2023
15:02
ALSHS
Server



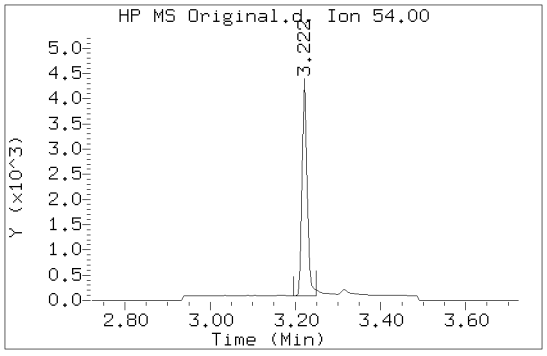

AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
16:26
ALSHS
Ser



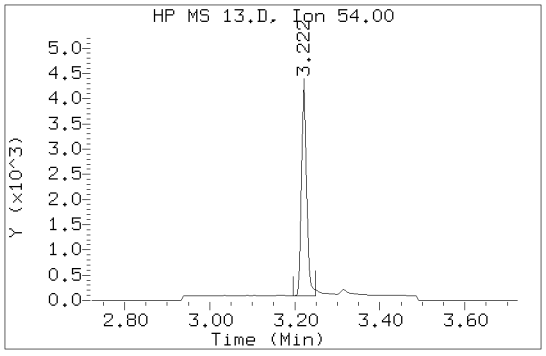

BEFORE

MASS
54
AREA
3558
HEIGHT
4305
26-Jun-2023
15:02
ALSHS
Server




AFTER

MASS
54
AREA
3558
HEIGHT
4305
29-Jun-2023
16:26
ALSHS
Ser

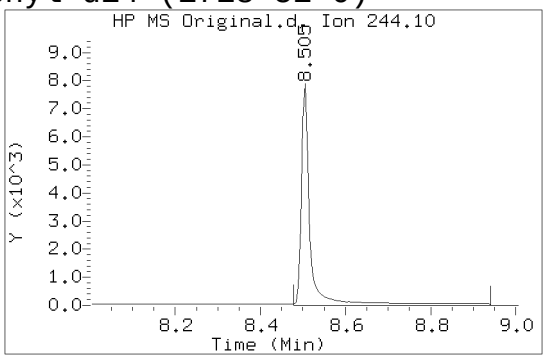


Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\13.D
Inj Date : 26-JUN-2023 14:46
InstruID : SV6.i
LabSampID : HS23061096-07

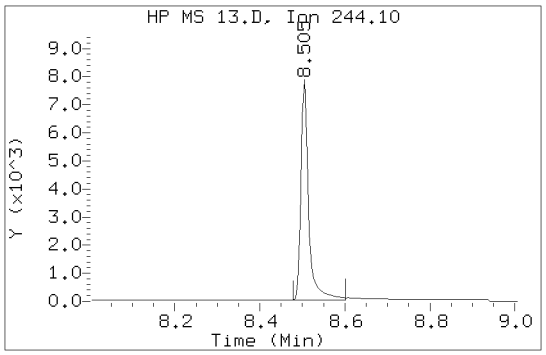
4-Terphenyl-d14 (1718-51-0)

Reason Code:

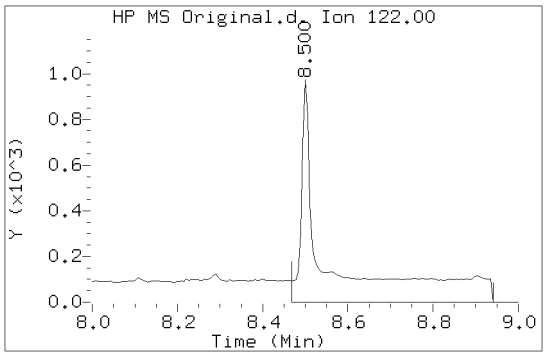
BEFORE
MASS
244.1
AREA
11660
HEIGHT
7892
26-Jun-2023
15:02
ALSHS
Server



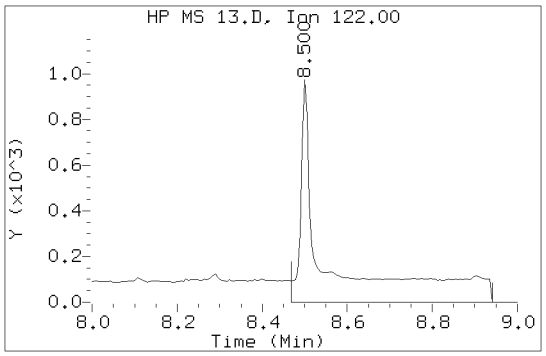

AFTER
MASS
244.1
AREA
9719
HEIGHT
7839
29-Jun-2023
16:26
ALSHS
Ser



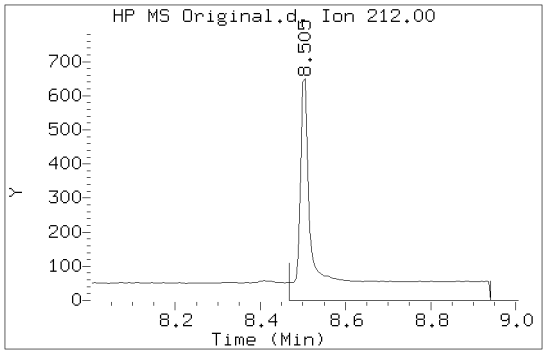

BEFORE
MASS
122
AREA
3951
HEIGHT
973
26-Jun-2023
15:02
ALSHS
Server



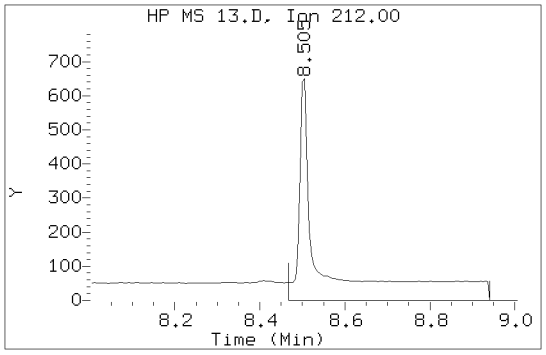

AFTER
MASS
122
AREA
3951
HEIGHT
973
29-Jun-2023
16:26
ALSHS
Ser




BEFORE
MASS
212
AREA
2333
HEIGHT
650
26-Jun-2023
15:02
ALSHS
Server




AFTER
MASS
212
AREA
2333
HEIGHT
650
29-Jun-2023
16:26
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230626.b\14.D
Lab Smp Id: HS23061096-08 Client Smp ID: HS23061096-08
Inj Date : 26-JUN-2023 15:04
Operator : LG Inst ID: SV6.i
Smp Info : HS23061096-08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230626.b\DXSIM.m
Meth Date : 29-Jun-2023 16:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 2.771 | 2.771 | (1.000) | 3850 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 3.848 | 3.848 | (1.000) | 11917 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.222 | 3.222 | (0.837) | 2602 | 0.07186 | 0.07186(M) |
| * 86 Acenaphthene-d10 | 164 | 5.495 | 5.495 | (1.000) | 6673 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 4.873 | 4.873 | (0.887) | 5940 | 0.08705 | 0.08705 |
| * 126 Phenanthrene-d10 | 188 | 6.923 | 6.923 | (1.000) | 12852 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 9.527 | 9.527 | (1.000) | 10327 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.505 | 8.505 | (0.893) | 6206 | 0.08146 | 0.08146(M) |
| * 198 Perylene-d12 | 264 | 11.288 | 11.294 | (1.000) | 7636 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 1.172 | 1.183 | (0.423) | 493 | 0.03774 | 0.03774(M) |

QC Flag Legend

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

01196922

Data File: \\NAHSTWS005\Target\chem\SV6.i\230626.b\14.D



Date : 26-JUN-2023 15:04

Client ID: HS23061096-08

Instrument: SV6.i

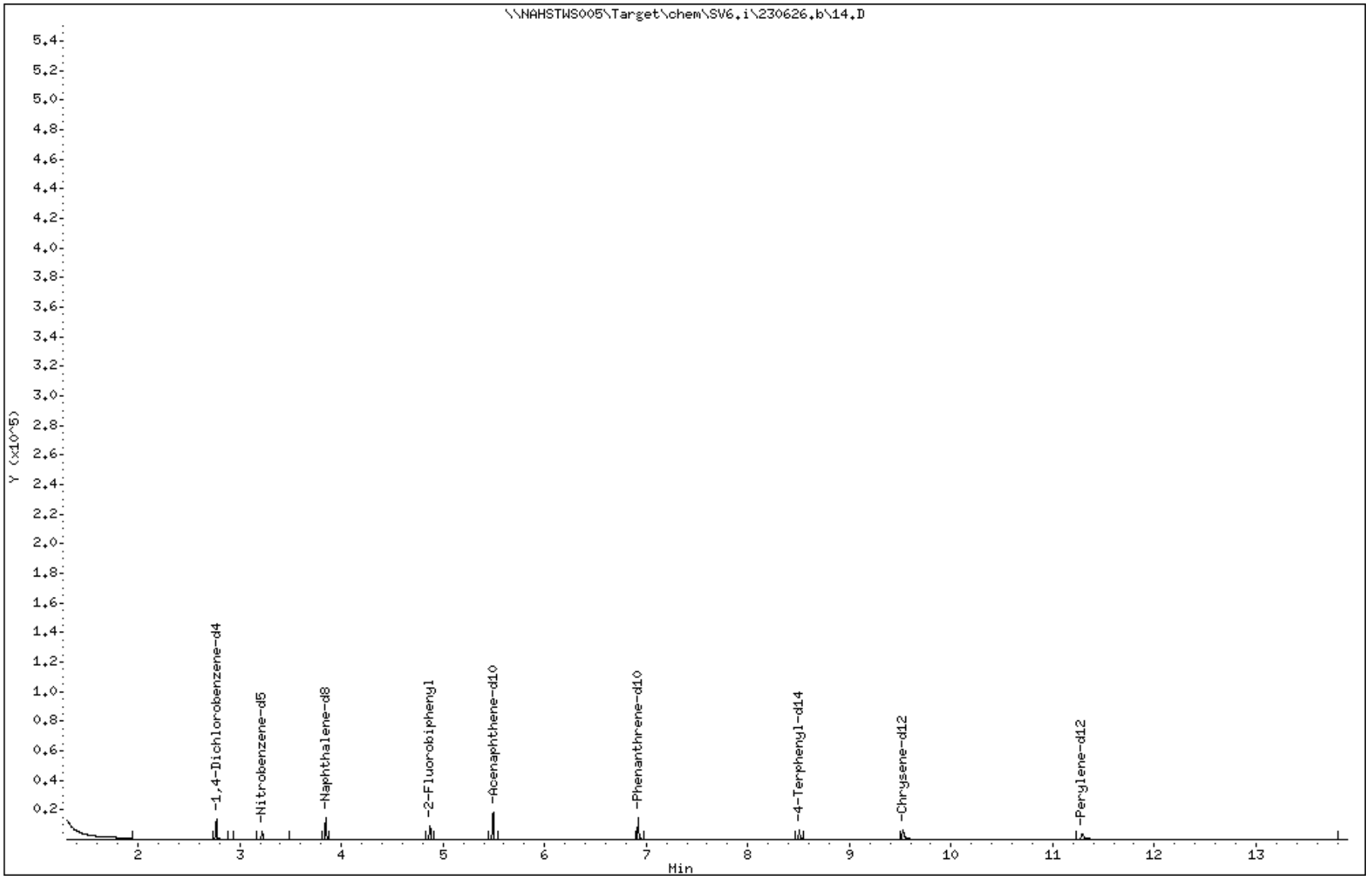
Sample Info: HS23061096-08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\230626.b\14.D

Date : 26-JUN-2023 15:04

Client ID: HS23061096-08

Instrument: SV6.i

Sample Info: HS23061096-08

Purge Volume: 1000.0

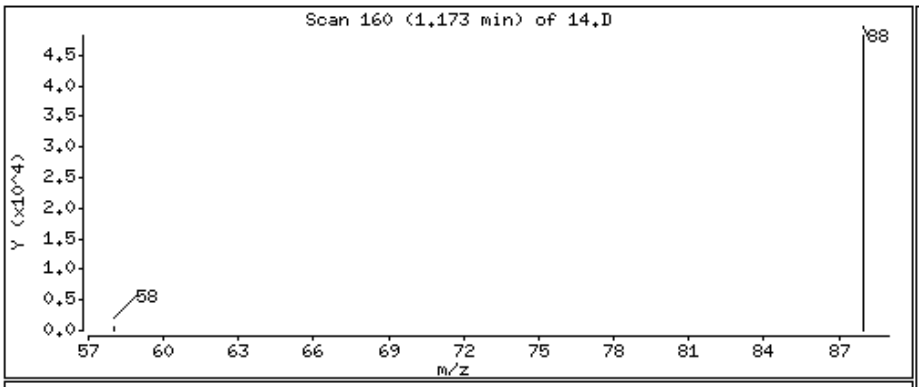
Operator: LG

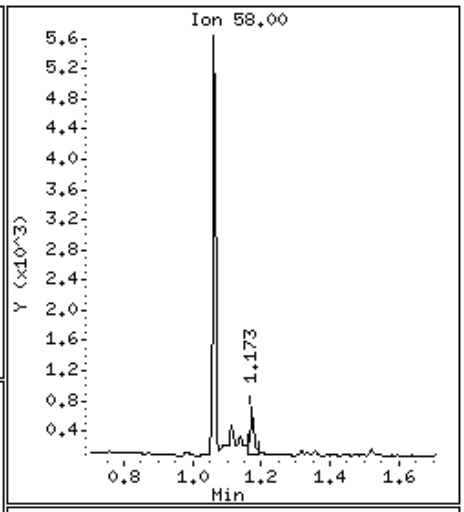
Column phase: RTX-5SIL MS

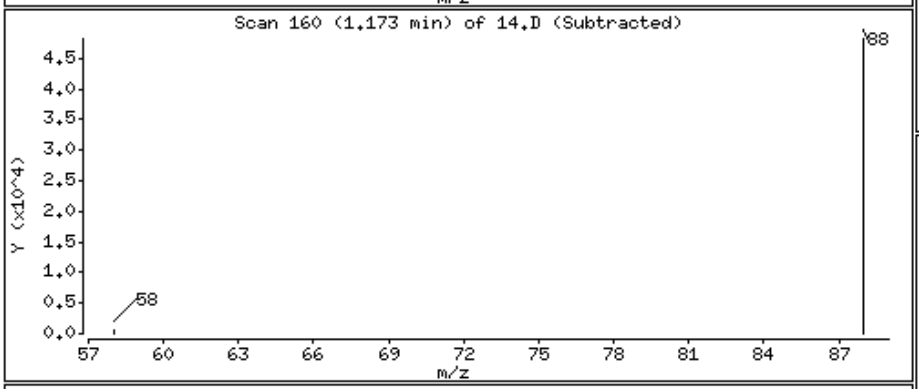
Column diameter: 0.28

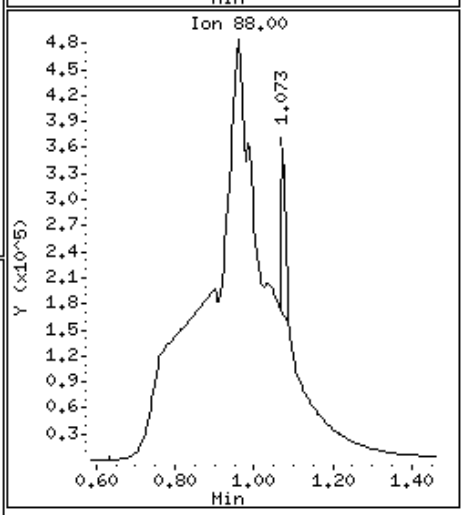
1 1,4-Dioxane

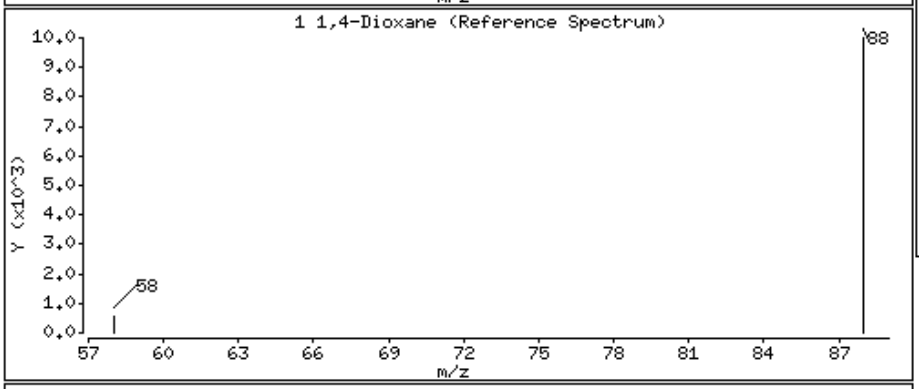
Concentration: 0.03774 ug/L

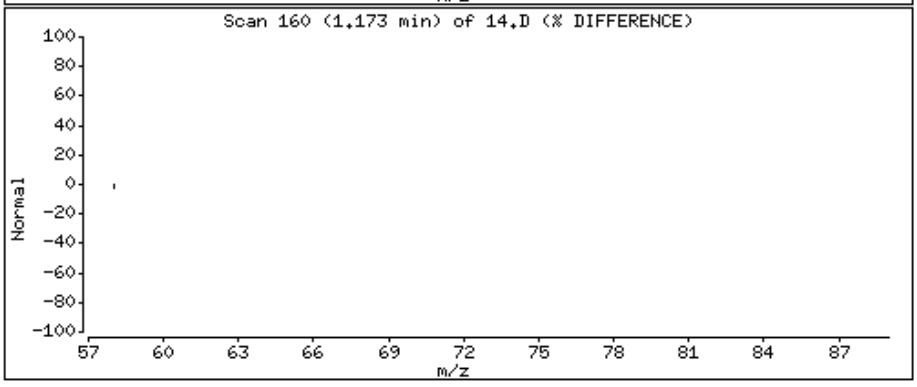


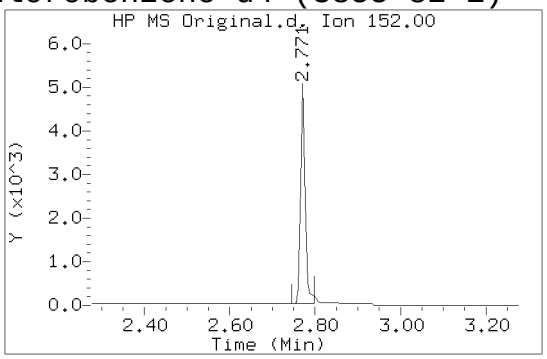
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\14.D
Inj Date : 26-JUN-2023 15:04
InstruID : SV6.i
LabSampID : HS23061096-08

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

Reason Code:

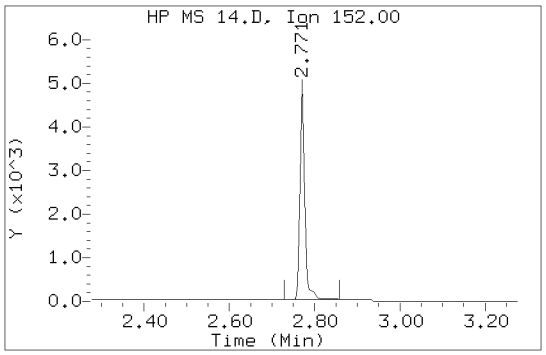
BEFORE

MASS
152
AREA
3701
HEIGHT
5036
26-Jun-2023
15:19
ALSHS
Server



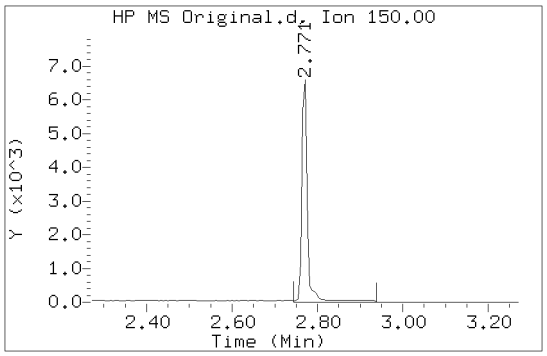

AFTER

MASS
152
AREA
3850
HEIGHT
5047
29-Jun-2023
16:26
ALSHS
Ser



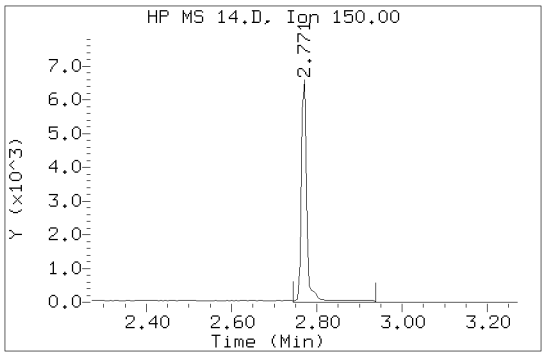

BEFORE

MASS
150
AREA
6006
HEIGHT
6594
26-Jun-2023
15:19
ALSHS
Server



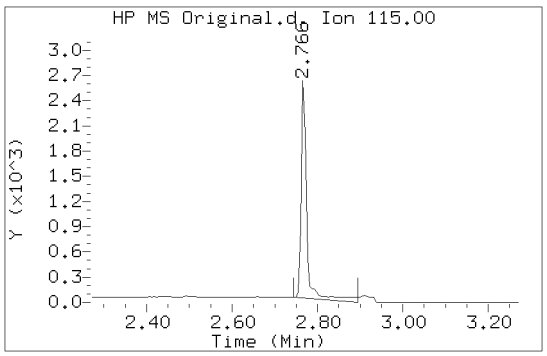

AFTER

MASS
150
AREA
6006
HEIGHT
6594
29-Jun-2023
16:26
ALSHS
Ser



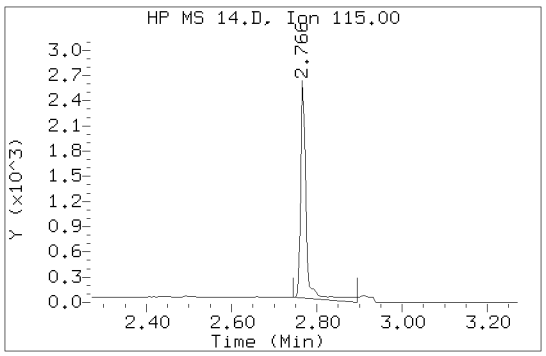

BEFORE

MASS
115
AREA
2323
HEIGHT
2586
26-Jun-2023
15:19
ALSHS
Server




AFTER

MASS
115
AREA
2323
HEIGHT
2586
29-Jun-2023
16:26
ALSHS
Ser

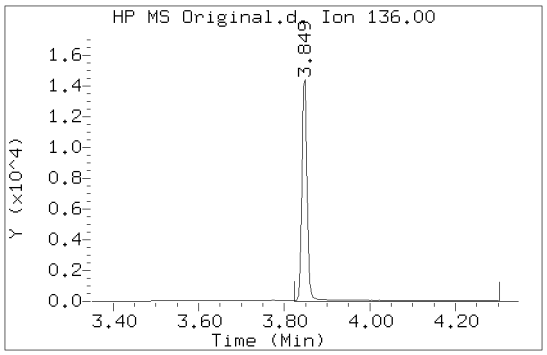



## Naphthalene-d8 (1146-65-2)

Reason Code:

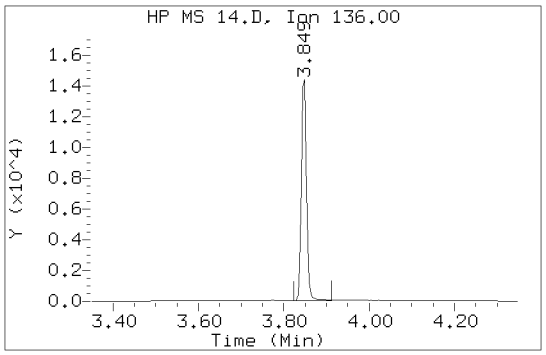
BEFORE

MASS
136
AREA
13594
HEIGHT
14400
26-Jun-2023
15:19
ALSHS
Server




AFTER

MASS
136
AREA
11917
HEIGHT
14351
29-Jun-2023
16:26
ALSHS
Ser



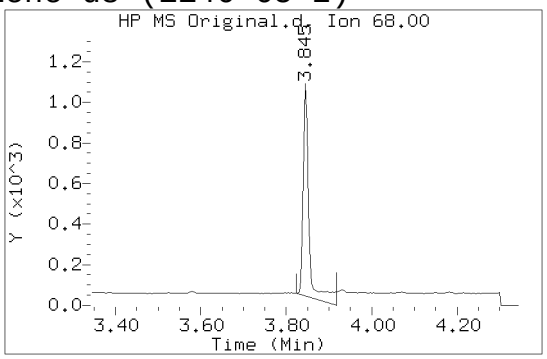
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\14.D
Inj Date : 26-JUN-2023 15:04
InstruID : SV6.i
LabSampID : HS23061096-08

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

Reason Code:

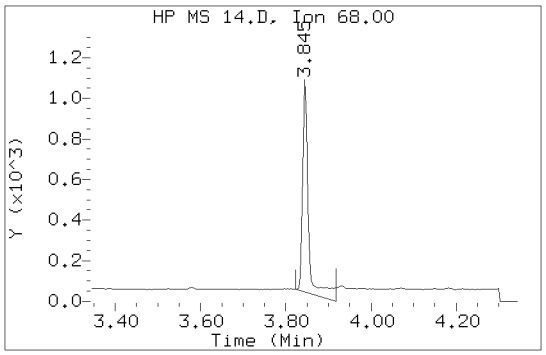
**BEFORE**

MASS
68
AREA
989
HEIGHT
1045
26-Jun-2023
15:19
ALSHS
Server




**AFTER**

MASS
68
AREA
989
HEIGHT
1045
29-Jun-2023
16:26
ALSHS
Ser

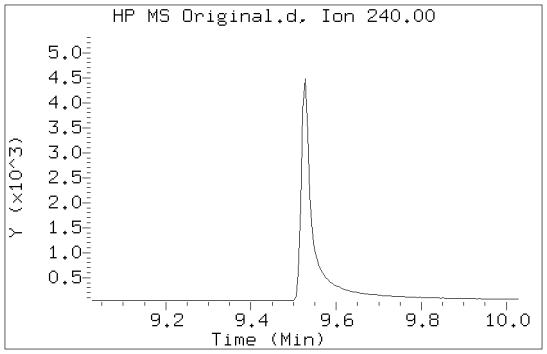



## Chrysene-d12 (1719-03-5)

Reason Code:

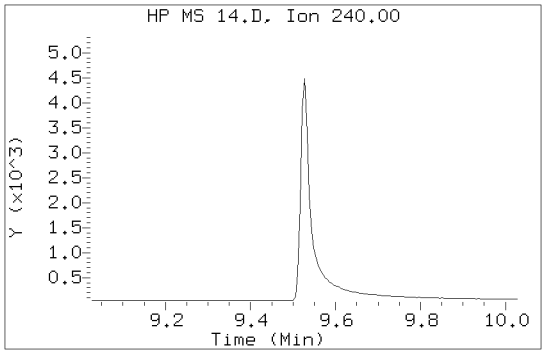
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
26-Jun-2023
15:19
ALSHS
Server



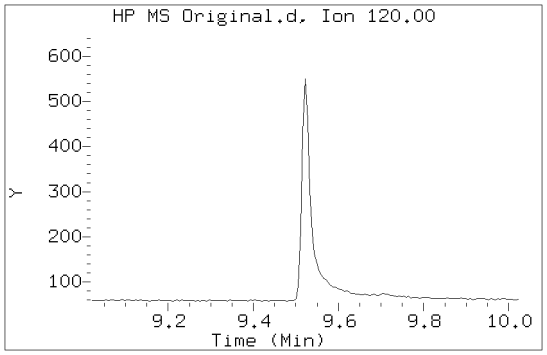

**AFTER**

MASS
240
AREA
10327
HEIGHT
4448
29-Jun-2023
16:26
ALSHS
Ser



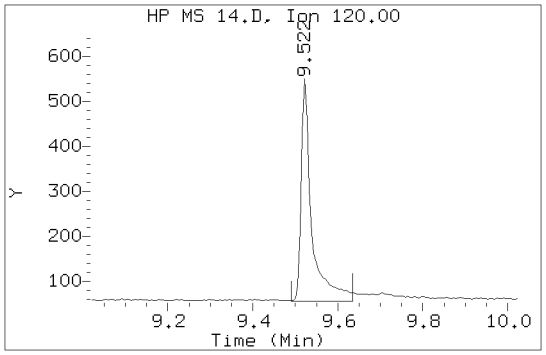

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
26-Jun-2023
15:19
ALSHS
Server



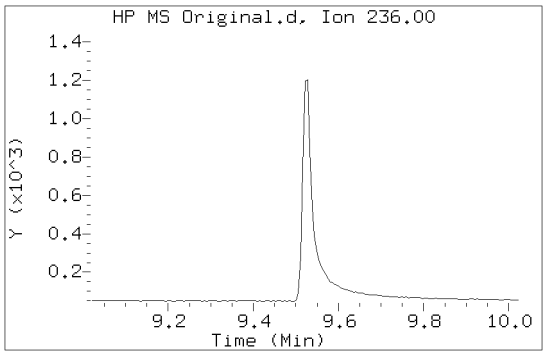

**AFTER**

MASS
120
AREA
848
HEIGHT
494
29-Jun-2023
16:26
ALSHS
Ser



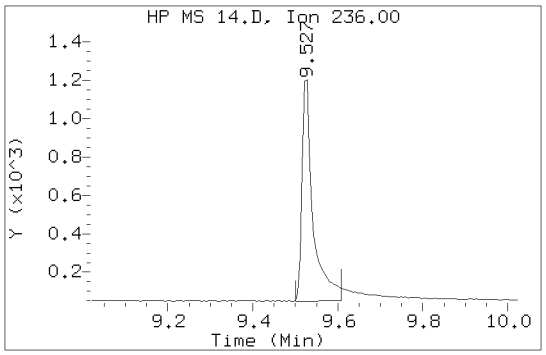

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
26-Jun-2023
15:19
ALSHS
Server




**AFTER**

MASS
236
AREA
2080
HEIGHT
1153
29-Jun-2023
16:26
ALSHS
Ser



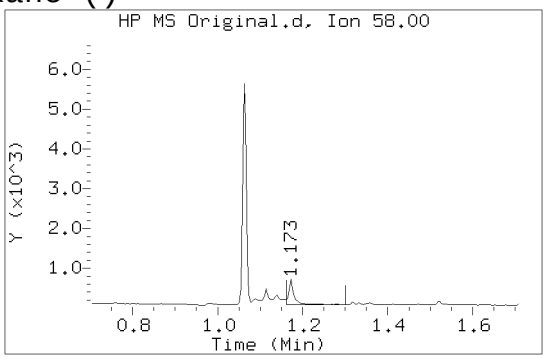
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\14.D
Inj Date : 26-JUN-2023 15:04
InstruID : SV6.i
LabSampID : HS23061096-08

## 1,4-Dioxane ()

Reason Code:

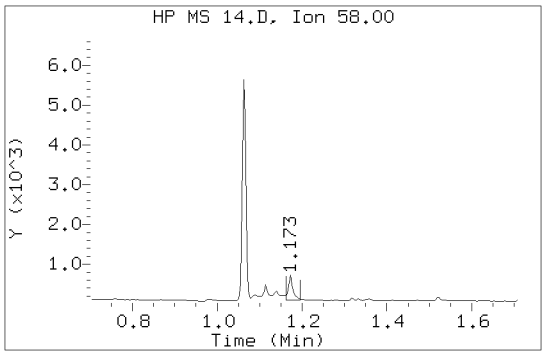
BEFORE

MASS
58
AREA
605
HEIGHT
641
26-Jun-2023
15:19
ALSHS
Server



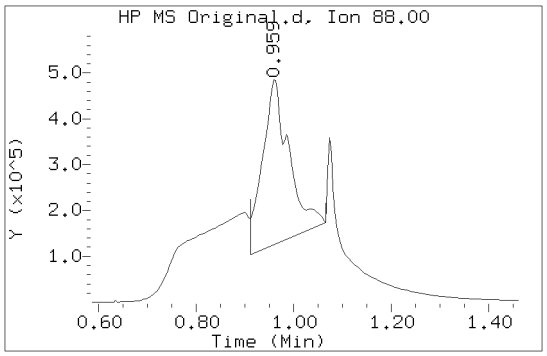

AFTER

MASS
58
AREA
493
HEIGHT
627
29-Jun-2023
16:26
ALSHS
Ser



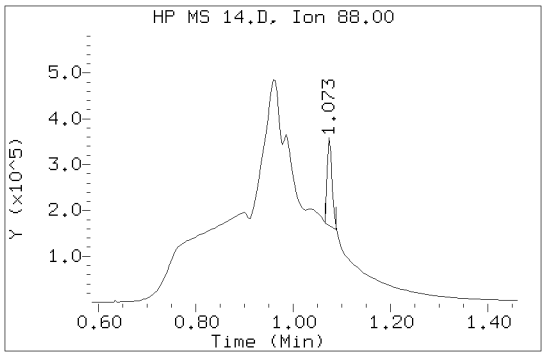

BEFORE

MASS
88
AREA
1365905
HEIGHT
359268
26-Jun-2023
15:19
ALSHS
Server




AFTER

MASS
88
AREA
132112
HEIGHT
190923
29-Jun-2023
16:26
ALSHS
Ser

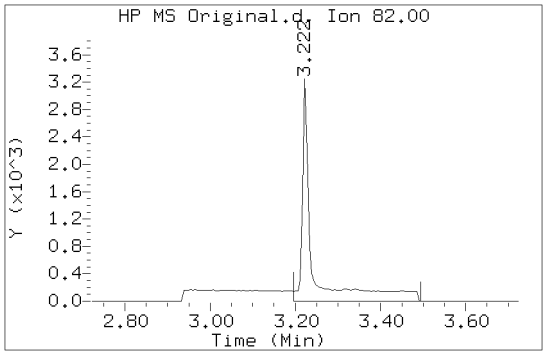



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

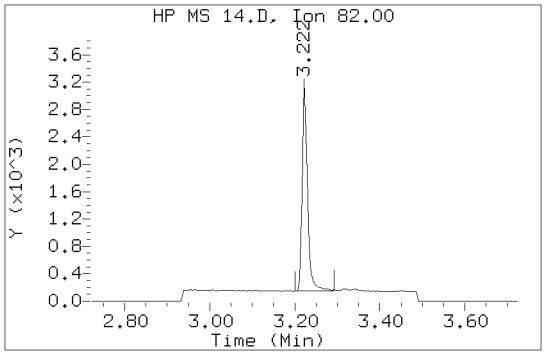
BEFORE

MASS
82
AREA
5242
HEIGHT
3247
26-Jun-2023
15:19
ALSHS
Server



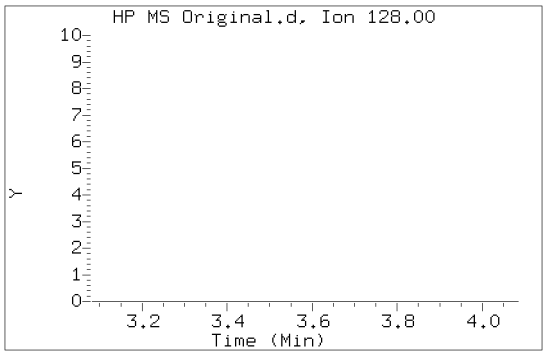

AFTER

MASS
82
AREA
2602
HEIGHT
3099
29-Jun-2023
16:26
ALSHS
Ser



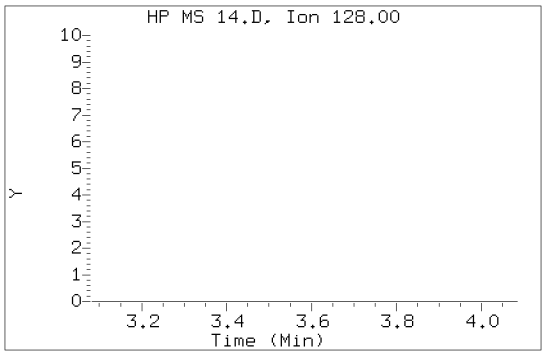

BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jun-2023
15:19
ALSHS
Server




AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
16:26
ALSHS
Ser

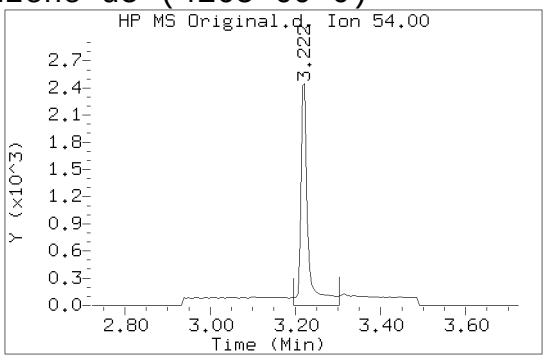


Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\14.D
Inj Date : 26-JUN-2023 15:04
InstruID : SV6.i
LabSampID : HS23061096-08

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

**BEFORE**

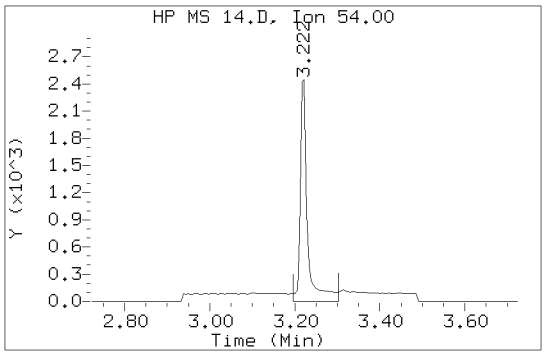
MASS
54
AREA
2870
HEIGHT
2447
26-Jun-2023
15:19
ALSHS
Server




Reason Code:

**AFTER**

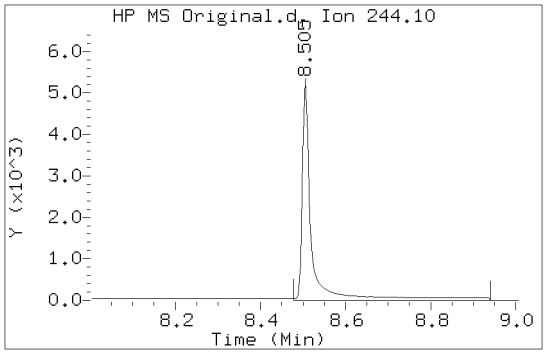
MASS
54
AREA
2870
HEIGHT
2447
29-Jun-2023
16:26
ALSHS
Ser




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

**BEFORE**

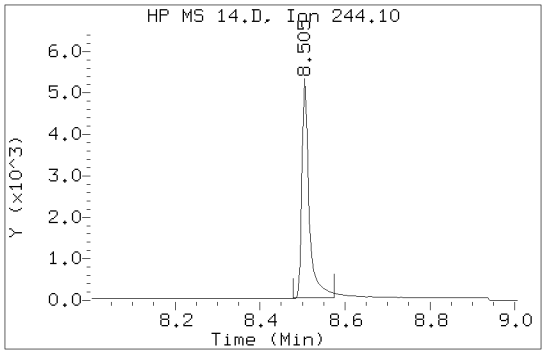
MASS
244.1
AREA
8175
HEIGHT
5344
26-Jun-2023
15:19
ALSHS
Server




Reason Code:

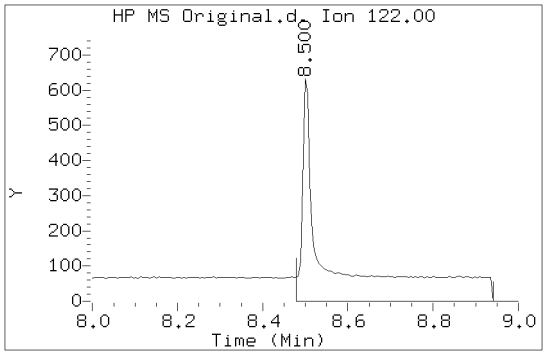
**AFTER**

MASS
244.1
AREA
6206
HEIGHT
5288
29-Jun-2023
16:26
ALSHS
Ser



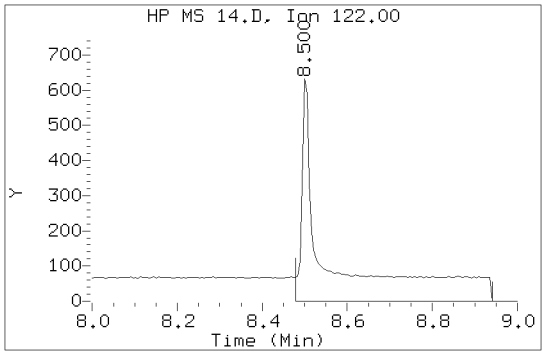

**BEFORE**

MASS
122
AREA
2609
HEIGHT
632
26-Jun-2023
15:19
ALSHS
Server



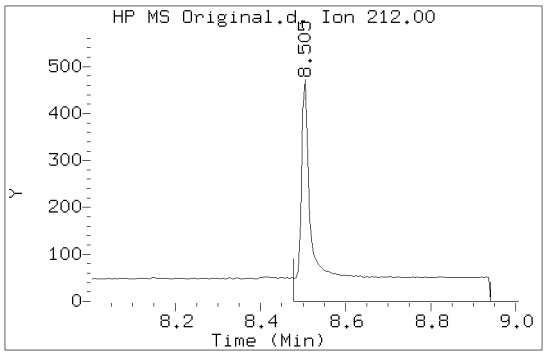

**AFTER**

MASS
122
AREA
2609
HEIGHT
632
29-Jun-2023
16:26
ALSHS
Ser



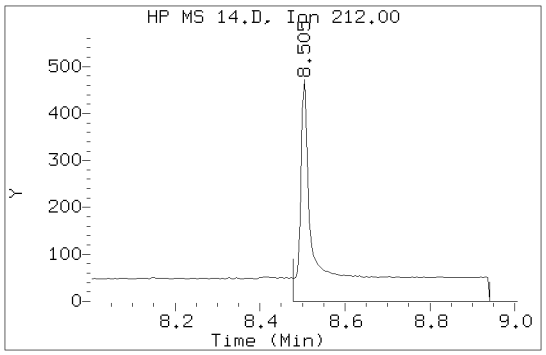

**BEFORE**

MASS
212
AREA
1931
HEIGHT
472
26-Jun-2023
15:19
ALSHS
Server




**AFTER**

MASS
212
AREA
1931
HEIGHT
472
29-Jun-2023
16:26
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230626.b\15.D Page 1
Report Date: 29-Jun-2023 16:30

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230626.b\15.D
Lab Smp Id: HS23061096-09 Client Smp ID: HS23061096-09
Inj Date : 26-JUN-2023 15:22
Operator : LG Inst ID: SV6.i
Smp Info : HS23061096-09
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230626.b\DXSIM.m
Meth Date : 29-Jun-2023 16:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 2.771 | 2.776 | (1.000) | 4611 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 3.848 | 3.848 | (1.000) | 14539 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.222 | 3.222 | (0.837) | 3131 | 0.07088 | 0.07088(M) |
| * 86 Acenaphthene-d10 | 164 | 5.495 | 5.489 | (1.000) | 8184 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 4.873 | 4.869 | (0.887) | 7262 | 0.08677 | 0.08677 |
| * 126 Phenanthrene-d10 | 188 | 6.918 | 6.918 | (1.000) | 15945 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 9.527 | 9.527 | (1.000) | 12328 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.505 | 8.505 | (0.893) | 7721 | 0.08489 | 0.08489(M) |
| * 198 Perylene-d12 | 264 | 11.294 | 11.288 | (1.000) | 10392 | 0.10000 | |

QC Flag Legend

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

01196929

Data File: \\NAHSTWS005\Target\chem\SV6.i\230626.b\15.D



Date : 26-JUN-2023 15:22

Client ID: HS23061096-09

Instrument: SV6.i

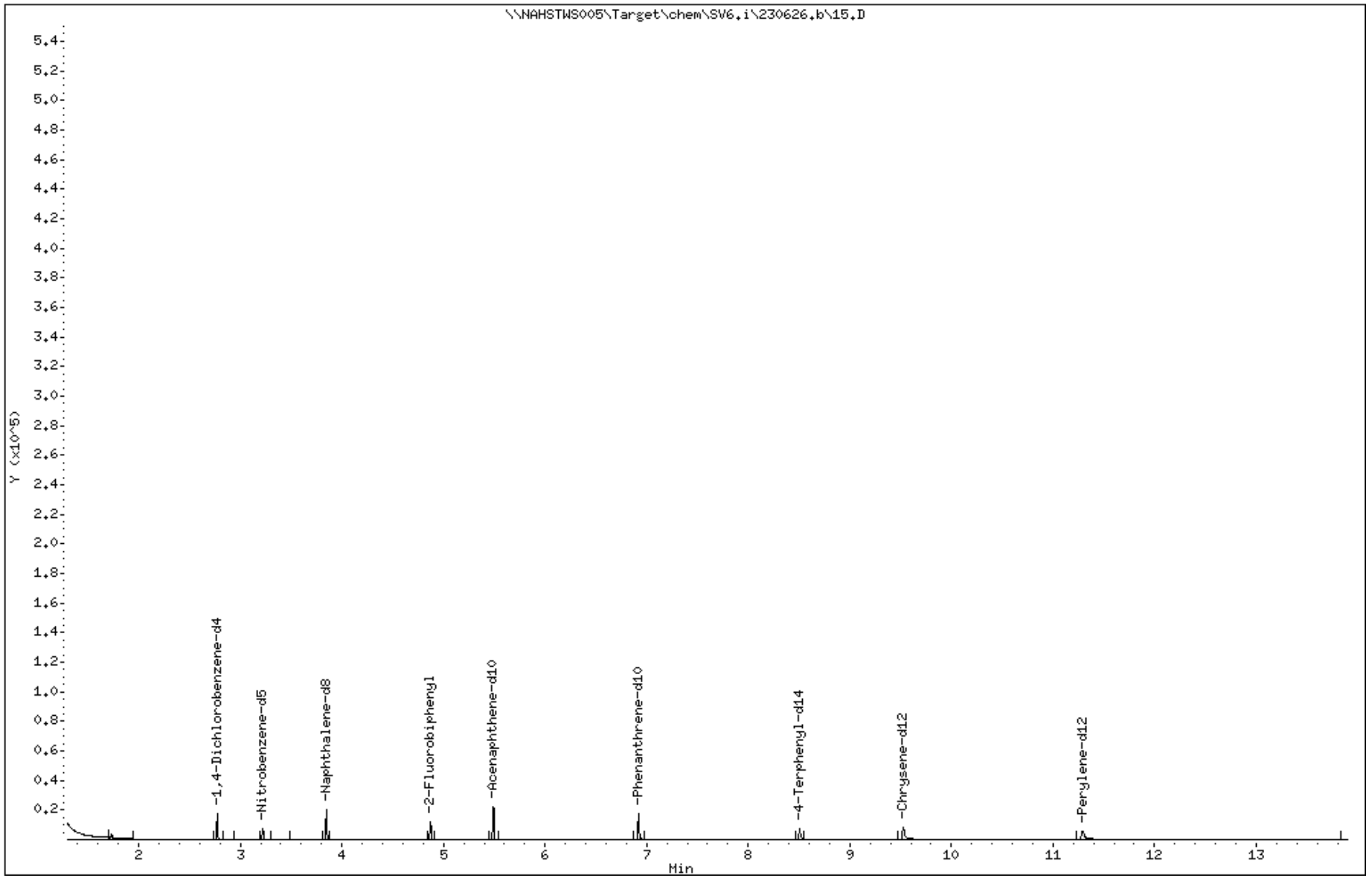
Sample Info: HS23061096-09

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



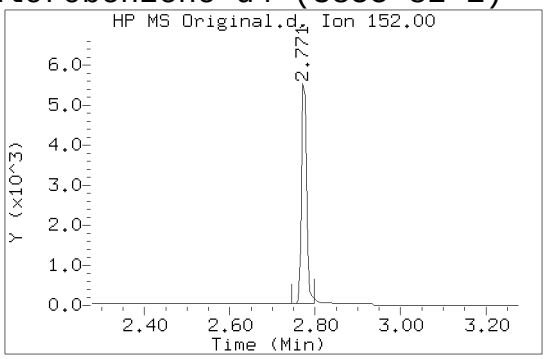
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\15.D
Inj Date : 26-JUN-2023 15:22
InstruID : SV6.i
LabSampID : HS23061096-09

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

Reason Code:

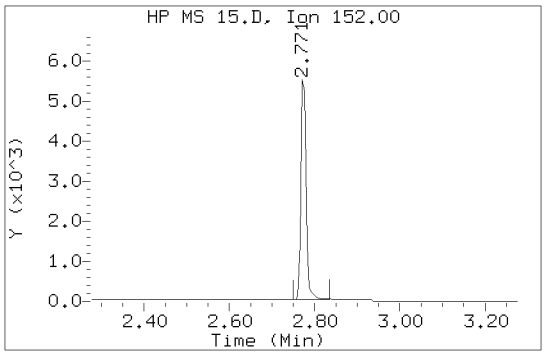
BEFORE

MASS
152
AREA
4548
HEIGHT
5490
26-Jun-2023
15:38
ALSHS
Server



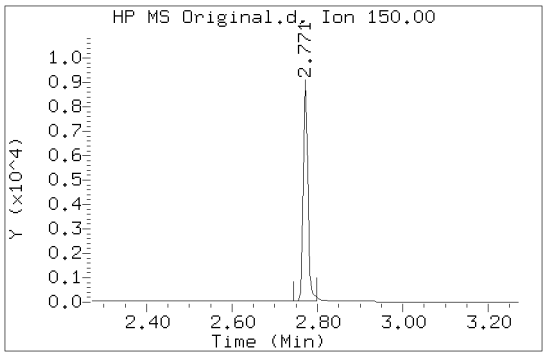

AFTER

MASS
152
AREA
4611
HEIGHT
5492
29-Jun-2023
16:30
ALSHS
Ser



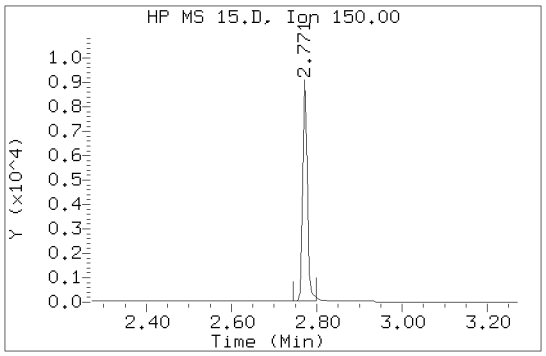

BEFORE

MASS
150
AREA
6580
HEIGHT
9057
26-Jun-2023
15:38
ALSHS
Server



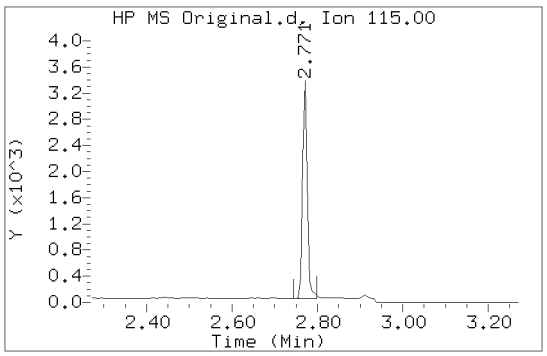

AFTER

MASS
150
AREA
6580
HEIGHT
9057
29-Jun-2023
16:30
ALSHS
Ser



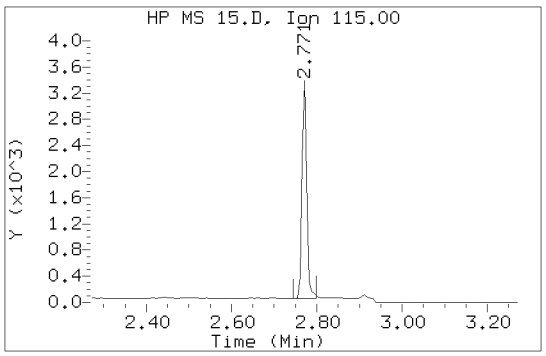

BEFORE

MASS
115
AREA
2463
HEIGHT
3332
26-Jun-2023
15:38
ALSHS
Server




AFTER

MASS
115
AREA
2463
HEIGHT
3332
29-Jun-2023
16:30
ALSHS
Ser

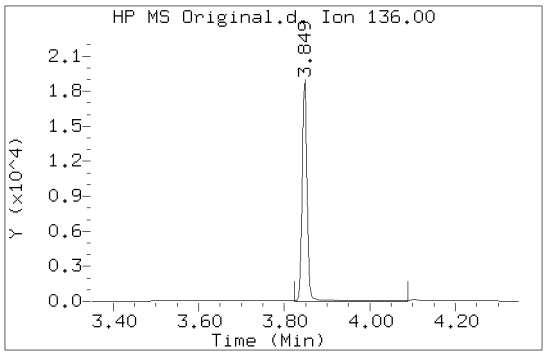



## Naphthalene-d8 (1146-65-2)

Reason Code:

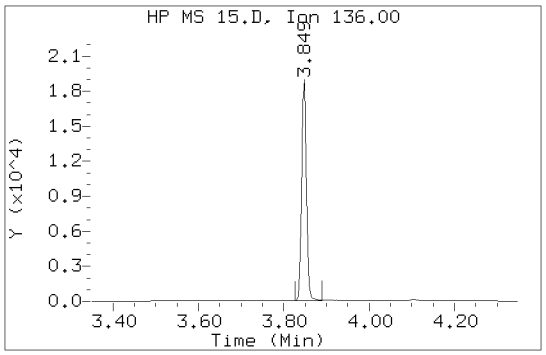
BEFORE

MASS
136
AREA
15627
HEIGHT
18992
26-Jun-2023
15:38
ALSHS
Server




AFTER

MASS
136
AREA
14539
HEIGHT
18934
29-Jun-2023
16:30
ALSHS
Ser



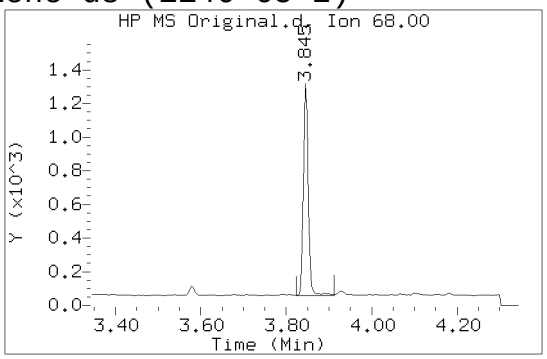
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\15.D
Inj Date : 26-JUN-2023 15:22
InstruID : SV6.i
LabSampID : HS23061096-09

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

Reason Code:

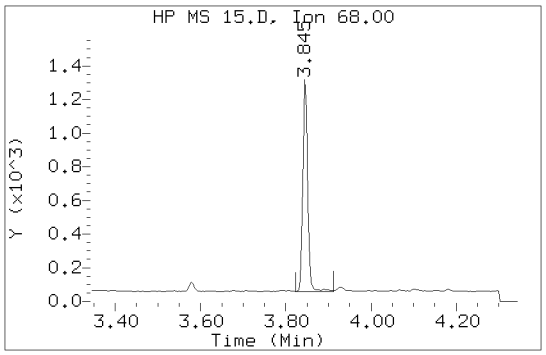
**BEFORE**

MASS
68
AREA
979
HEIGHT
1259
26-Jun-2023
15:38
ALSHS
Server




**AFTER**

MASS
68
AREA
979
HEIGHT
1259
29-Jun-2023
16:30
ALSHS
Ser

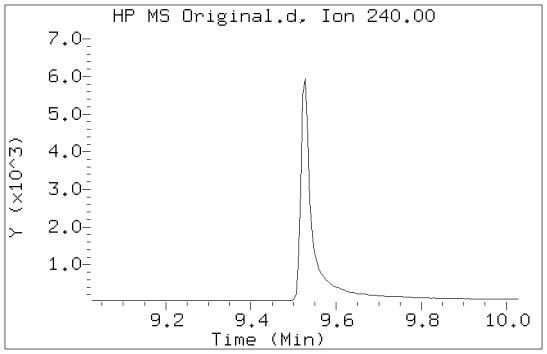



## Chrysene-d12 (1719-03-5)

Reason Code:

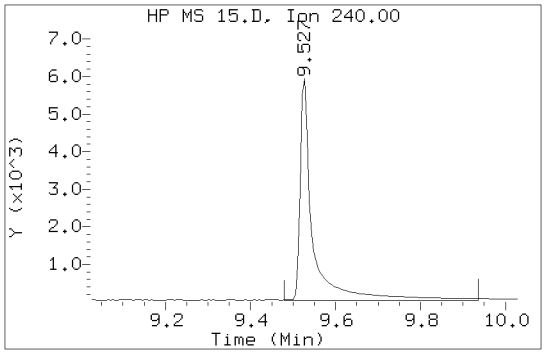
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
26-Jun-2023
15:38
ALSHS
Server



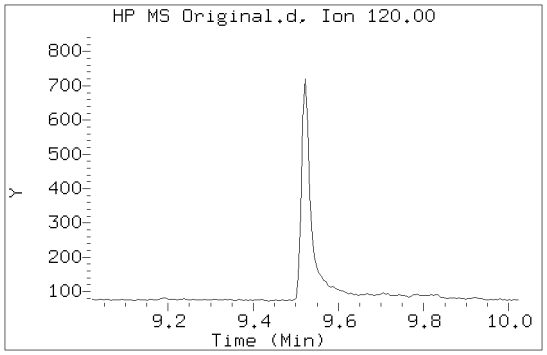

**AFTER**

MASS
240
AREA
12328
HEIGHT
5900
29-Jun-2023
16:30
ALSHS
Ser



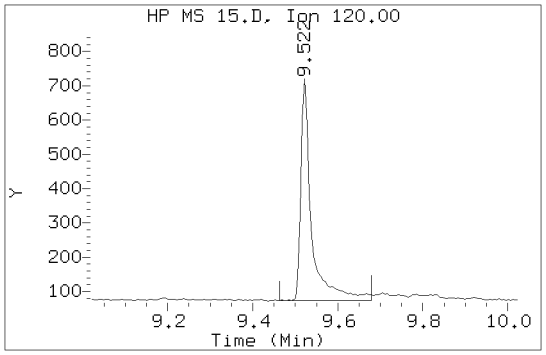

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
26-Jun-2023
15:38
ALSHS
Server



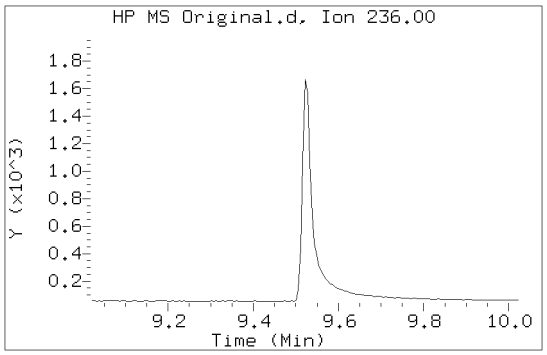

**AFTER**

MASS
120
AREA
1126
HEIGHT
646
29-Jun-2023
16:30
ALSHS
Ser



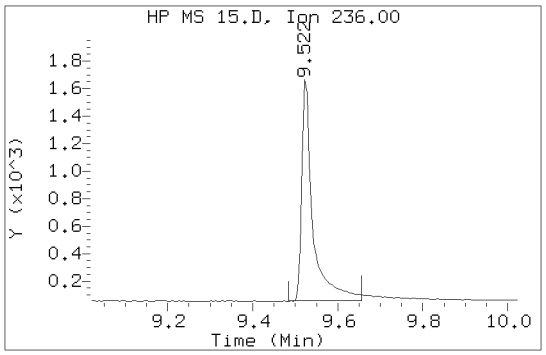

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
26-Jun-2023
15:38
ALSHS
Server




**AFTER**

MASS
236
AREA
2886
HEIGHT
1605
29-Jun-2023
16:30
ALSHS
Ser



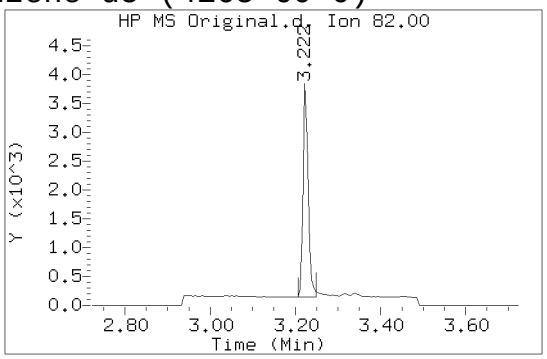
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\15.D
Inj Date : 26-JUN-2023 15:22
InstruID : SV6.i
LabSampID : HS23061096-09

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

Reason Code:

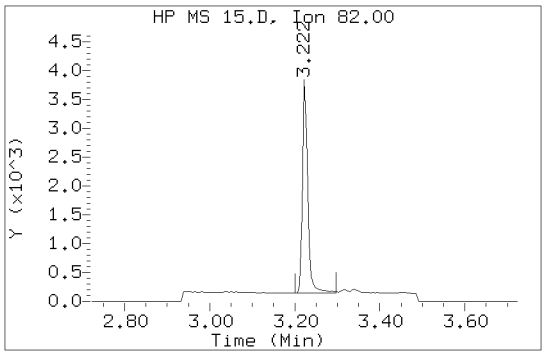
**BEFORE**

MASS
82
AREA
3007
HEIGHT
3693
26-Jun-2023
15:38
ALSHS
Server



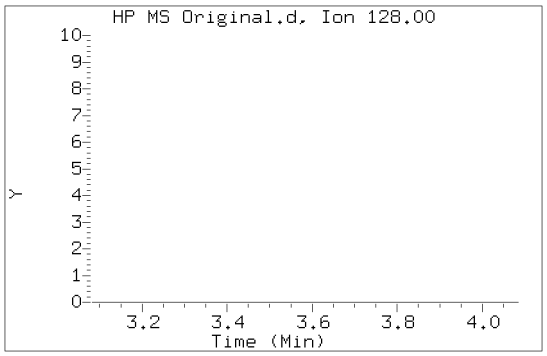

**AFTER**

MASS
82
AREA
3131
HEIGHT
3695
29-Jun-2023
16:30
ALSHS
Ser



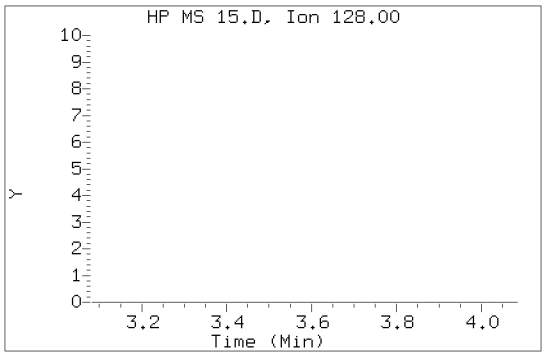

**BEFORE**

MASS
128
AREA
0
HEIGHT
0
26-Jun-2023
15:38
ALSHS
Server



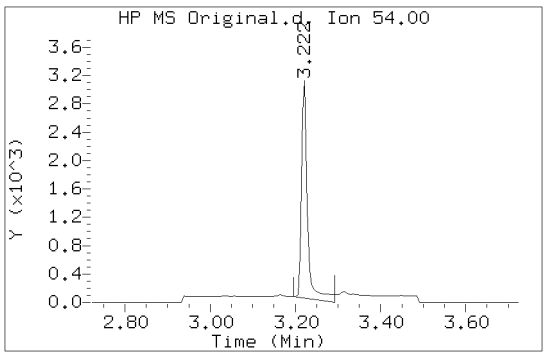

**AFTER**

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
16:30
ALSHS
Ser



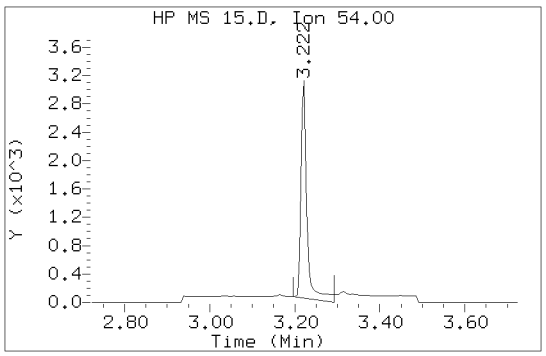

**BEFORE**

MASS
54
AREA
2981
HEIGHT
3067
26-Jun-2023
15:38
ALSHS
Server




**AFTER**

MASS
54
AREA
2981
HEIGHT
3067
29-Jun-2023
16:30
ALSHS
Ser

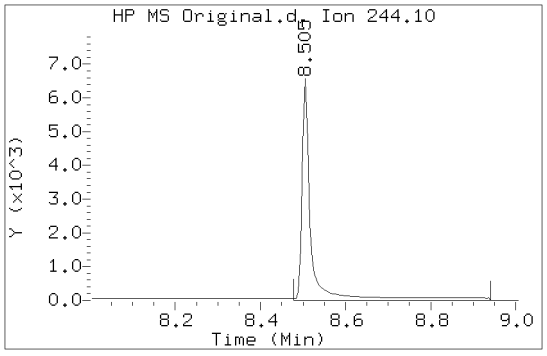



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

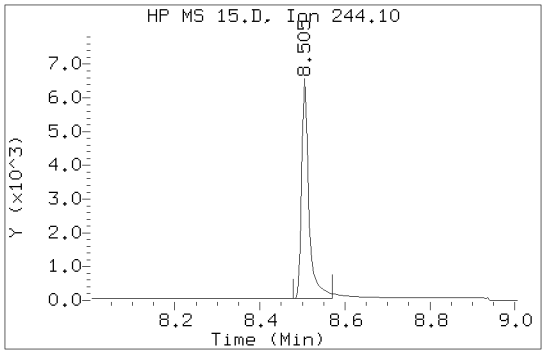
**BEFORE**

MASS
244.1
AREA
9885
HEIGHT
6569
26-Jun-2023
15:38
ALSHS
Server




**AFTER**

MASS
244.1
AREA
7721
HEIGHT
6521
29-Jun-2023
16:30
ALSHS
Ser

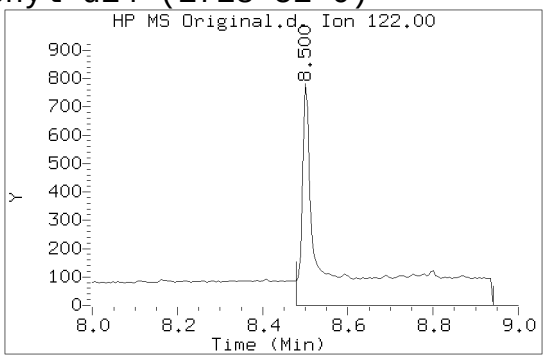


Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\15.D
Inj Date : 26-JUN-2023 15:22
InstruID : SV6.i
LabSampID : HS23061096-09

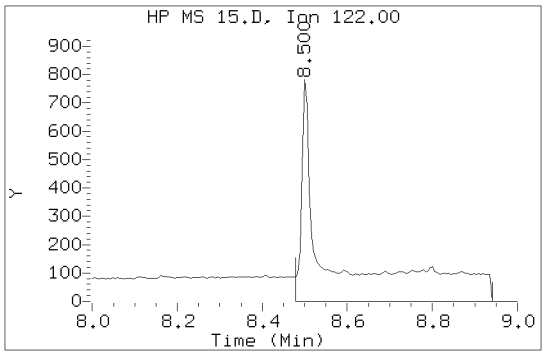
4-Terphenyl-d14 (1718-51-0)

Reason Code:

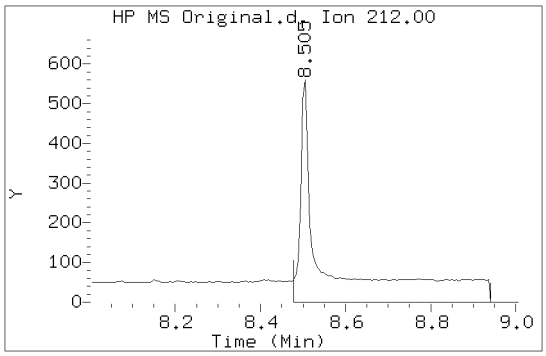
BEFORE
MASS
122
AREA
3540
HEIGHT
782
26-Jun-2023
15:38
ALSHS
Server



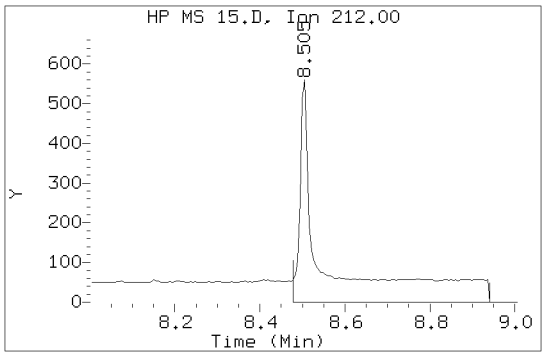

AFTER
MASS
122
AREA
3540
HEIGHT
782
29-Jun-2023
16:30
ALSHS
Ser




BEFORE
MASS
212
AREA
2188
HEIGHT
560
26-Jun-2023
15:38
ALSHS
Server




AFTER
MASS
212
AREA
2188
HEIGHT
560
29-Jun-2023
16:30
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230626.b\16.D Page 1
Report Date: 29-Jun-2023 16:30

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230626.b\16.D
Lab Smp Id: HS23061096-04 Client Smp ID: HS23061096-04
Inj Date : 26-JUN-2023 15:40
Operator : LG Inst ID: SV6.i
Smp Info : HS23061096-04X10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230626.b\DXSIM.m
Meth Date : 29-Jun-2023 16:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 16
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

| Name | Value | Description |
|---|---|---|
| DF | 10.000 | 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 | 2.776 | 2.776 | (1.000) | 5261 | 0.10000 | (aM) |
| * 45 Naphthalene-d8 | 136 | 3.848 | 3.848 | (1.000) | 16546 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.227 | 3.222 | (0.839) | 402 | 0.00800 | 0.07996(M) |
| * 86 Acenaphthene-d10 | 164 | 5.495 | 5.489 | (1.000) | 9265 | 0.10000 | |
| $ 69 2-Fluorobiphenyl | 172 | 4.873 | 4.869 | (0.887) | 851 | 0.00898 | 0.08982(M) |
| * 126 Phenanthrene-d10 | 188 | 6.918 | 6.918 | (1.000) | 18922 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 9.527 | 9.527 | (1.000) | 13002 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.505 | 8.505 | (0.893) | 848 | 0.00884 | 0.08840(M) |
| * 198 Perylene-d12 | 264 | 11.294 | 11.288 | (1.000) | 11626 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 1.209 | 1.206 | (0.436) | 1532 | 0.08582 | 0.8582(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.

01196935

Data File: \\NAHSTWS005\Target\chem\SV6.i\230626.b\16.D



Date : 26-JUN-2023 15:40

Client ID: HS23061096-04

Instrument: SV6.i

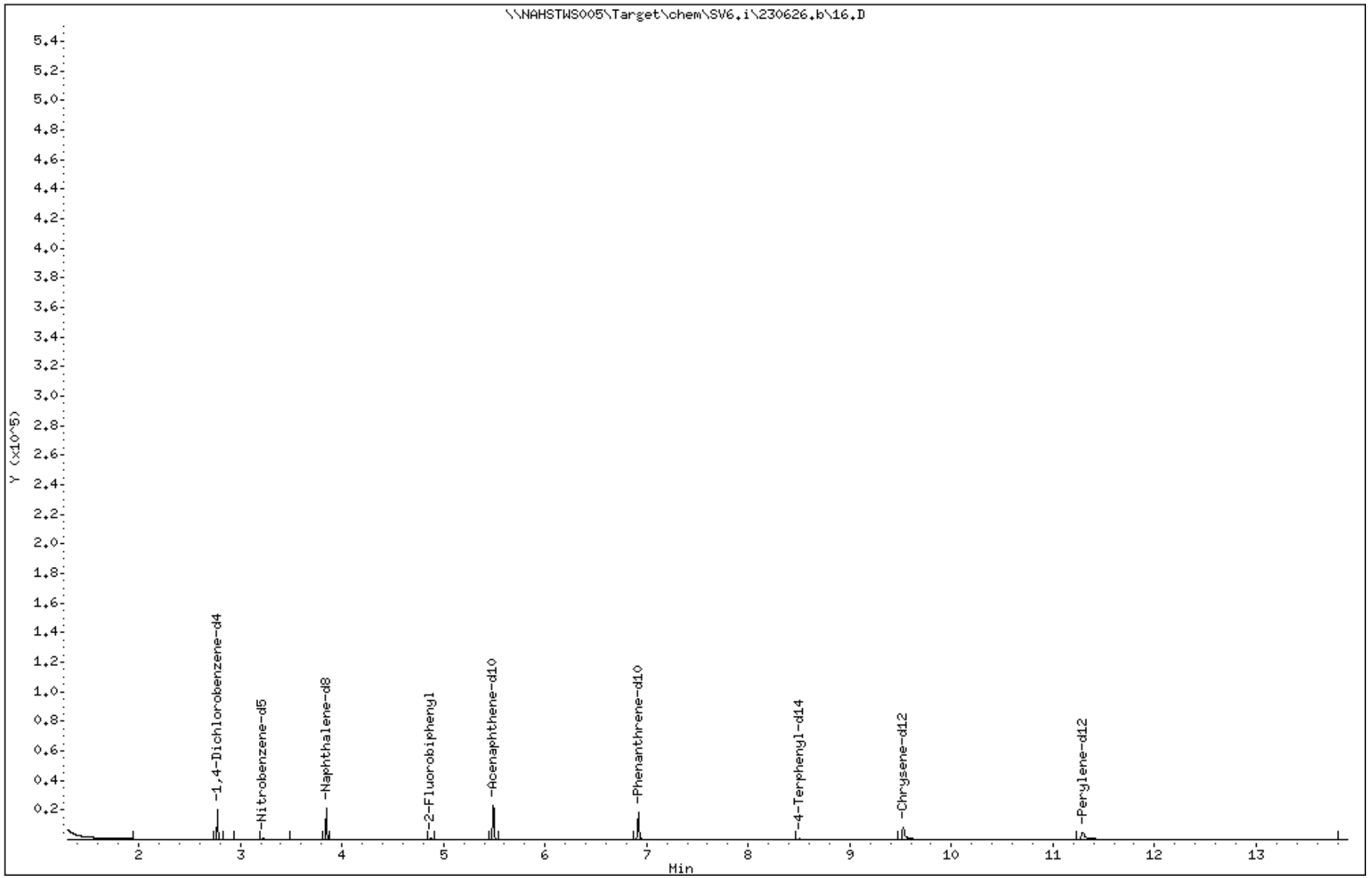
Sample Info: HS23061096-04X10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\230626.b\16.D

Date : 26-JUN-2023 15:40

Client ID: HS23061096-04

Instrument: SV6.i

Sample Info: HS23061096-04X10

Purge Volume: 1000.0

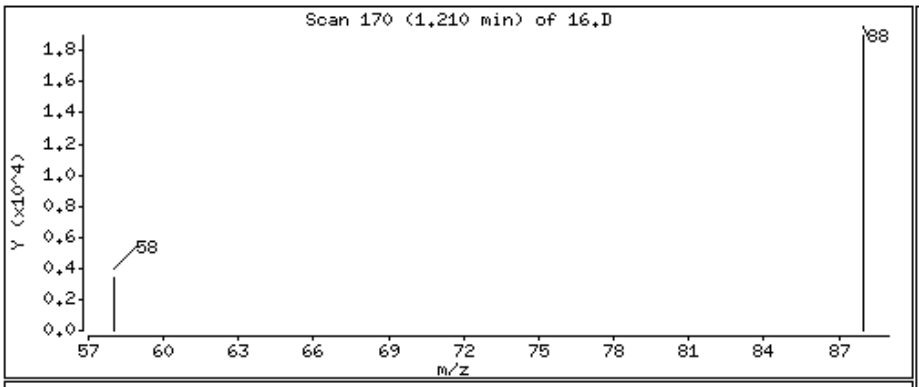
Operator: LG

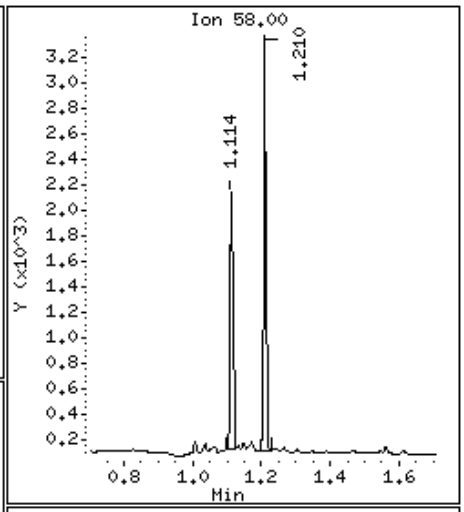
Column phase: RTX-5SIL MS

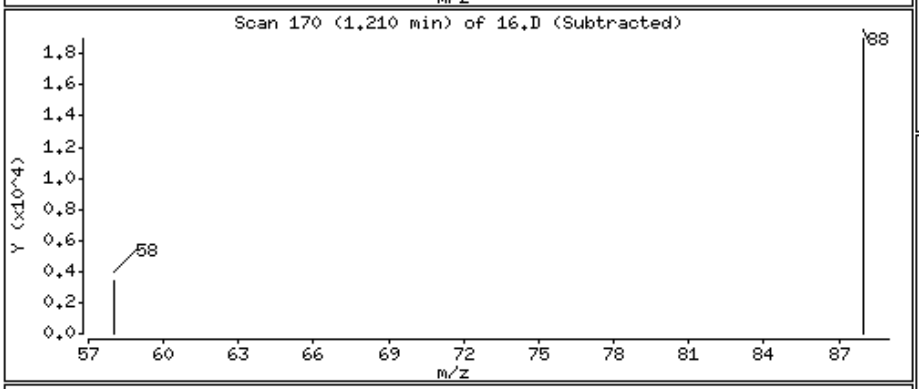
Column diameter: 0.28

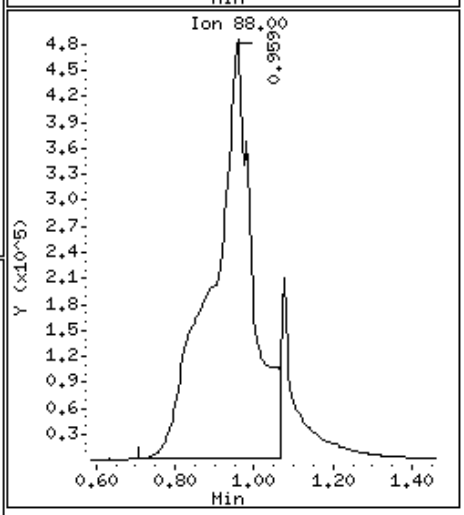
1 1,4-Dioxane

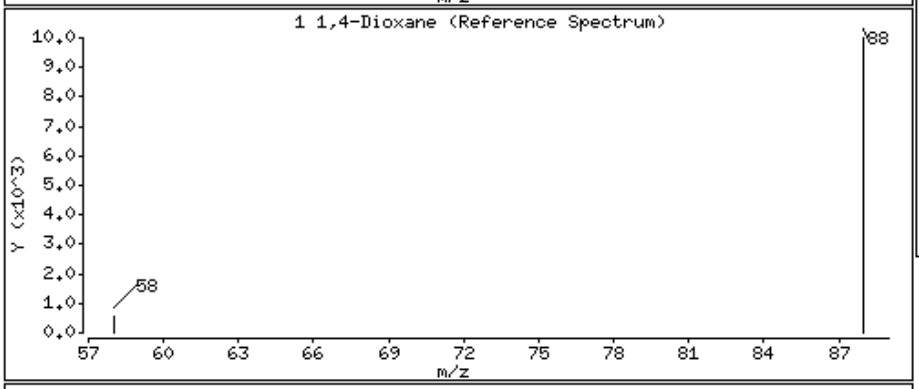
Concentration: 0.8582 ug/L

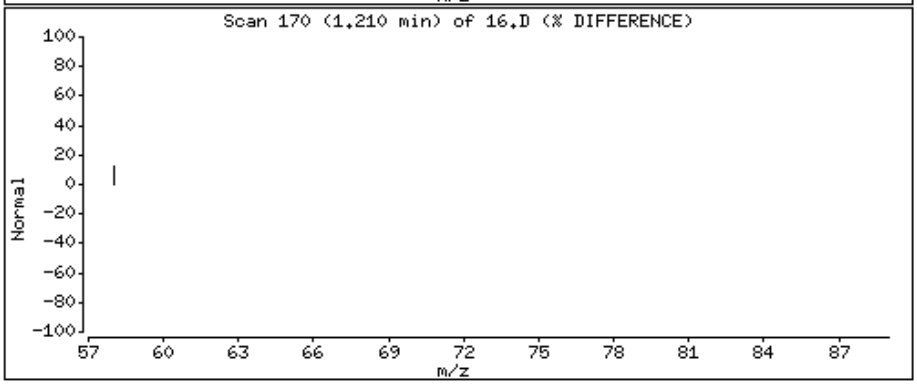


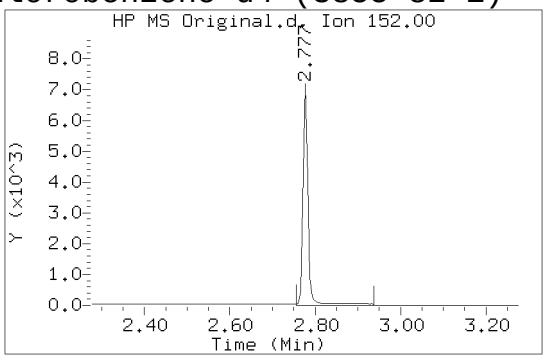
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\16.D
Inj Date : 26-JUN-2023 15:40
InstruID : SV6.i
LabSampID : HS23061096-04

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

Reason Code:

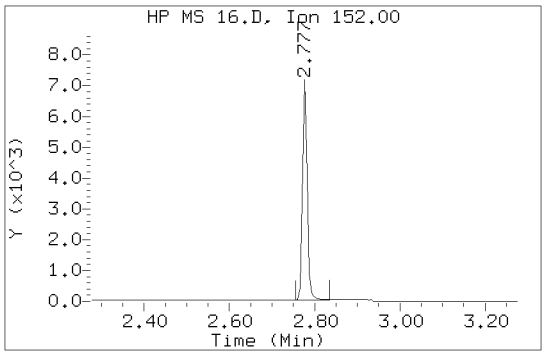
**BEFORE**

MASS
152
AREA
5796
HEIGHT
7193
26-Jun-2023
15:55
ALSHS
Server



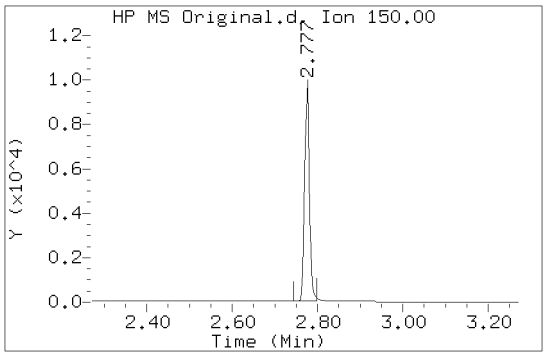

**AFTER**

MASS
152
AREA
5261
HEIGHT
7150
29-Jun-2023
16:30
ALSHS
Ser



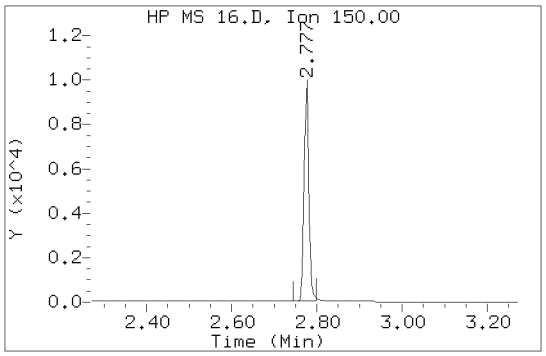

**BEFORE**

MASS
150
AREA
7519
HEIGHT
9959
26-Jun-2023
15:55
ALSHS
Server



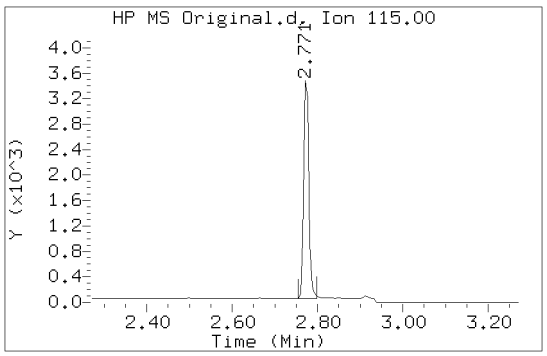

**AFTER**

MASS
150
AREA
7519
HEIGHT
9959
29-Jun-2023
16:30
ALSHS
Ser



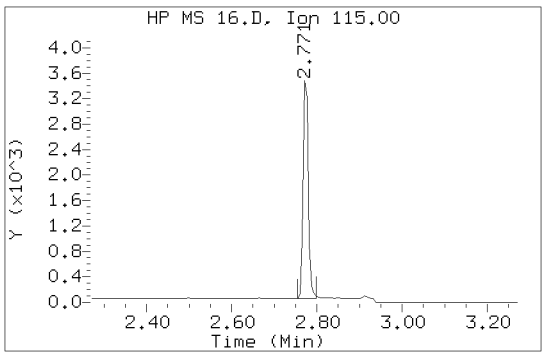

**BEFORE**

MASS
115
AREA
2820
HEIGHT
3423
26-Jun-2023
15:55
ALSHS
Server




**AFTER**

MASS
115
AREA
2820
HEIGHT
3423
29-Jun-2023
16:30
ALSHS
Ser

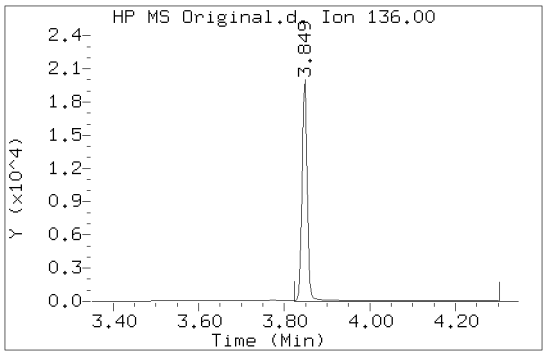



## Naphthalene-d8 (1146-65-2)

Reason Code:

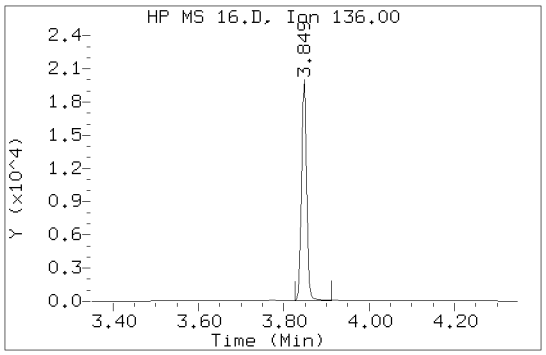
**BEFORE**

MASS
136
AREA
18285
HEIGHT
20016
26-Jun-2023
15:55
ALSHS
Server




**AFTER**

MASS
136
AREA
16546
HEIGHT
19970
29-Jun-2023
16:30
ALSHS
Ser



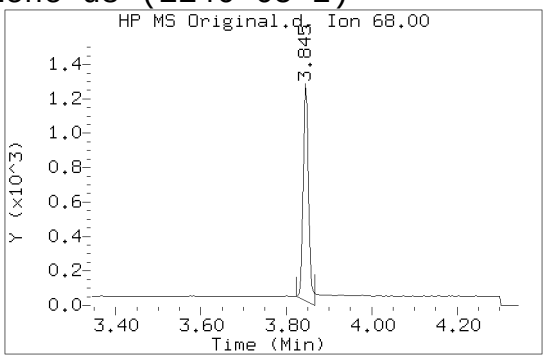
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\16.D
Inj Date : 26-JUN-2023 15:40
InstruID : SV6.i
LabSampID : HS23061096-04

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

Reason Code:

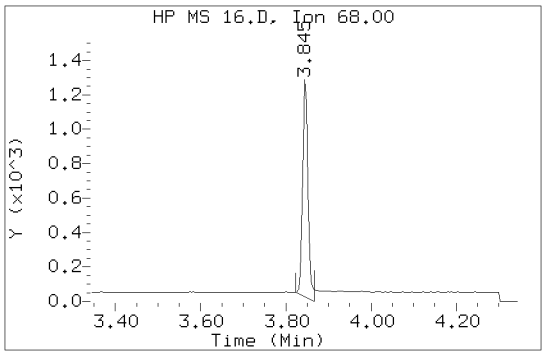
**BEFORE**

MASS
68
AREA
1095
HEIGHT
1261
26-Jun-2023
15:55
ALSHS
Server




**AFTER**

MASS
68
AREA
1095
HEIGHT
1261
29-Jun-2023
16:30
ALSHS
Ser

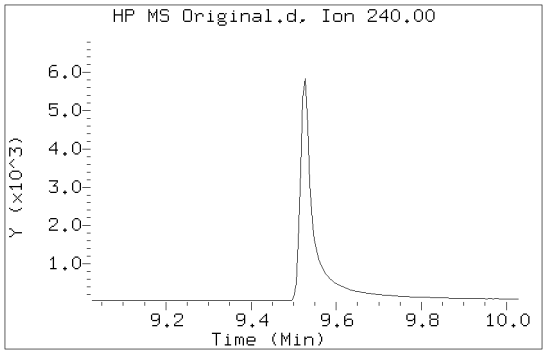



## Chrysene-d12 (1719-03-5)

Reason Code:

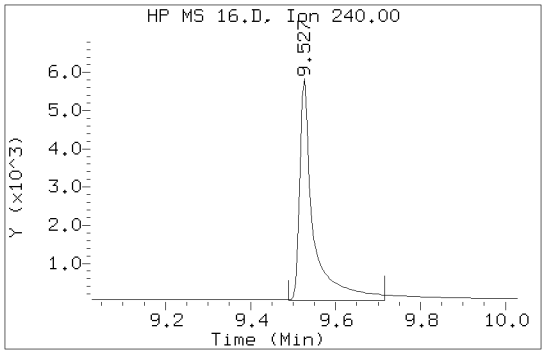
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
26-Jun-2023
15:55
ALSHS
Server



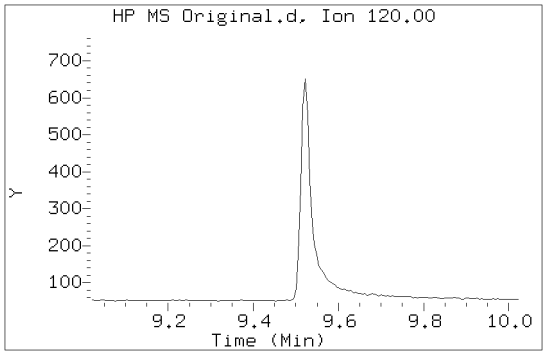

**AFTER**

MASS
240
AREA
13002
HEIGHT
5800
29-Jun-2023
16:30
ALSHS
Ser



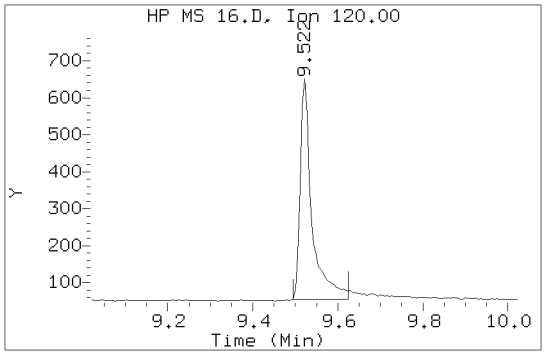

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
26-Jun-2023
15:55
ALSHS
Server



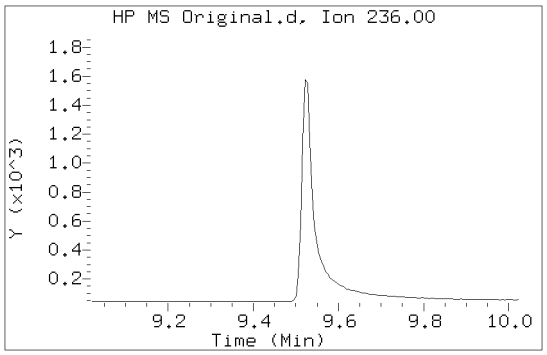

**AFTER**

MASS
120
AREA
1133
HEIGHT
596
29-Jun-2023
16:30
ALSHS
Ser



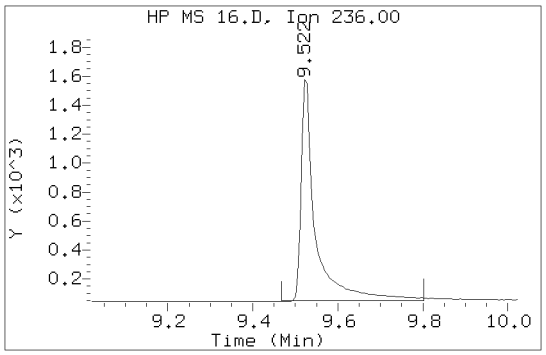

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
26-Jun-2023
15:55
ALSHS
Server




**AFTER**

MASS
236
AREA
3592
HEIGHT
1527
29-Jun-2023
16:30
ALSHS
Ser



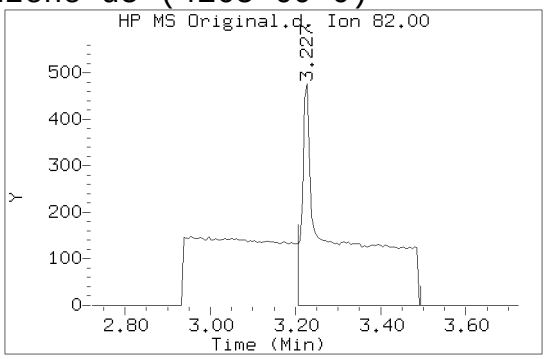
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\16.D
Inj Date : 26-JUN-2023 15:40
InstruID : SV6.i
LabSampID : HS23061096-04

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

Reason Code:

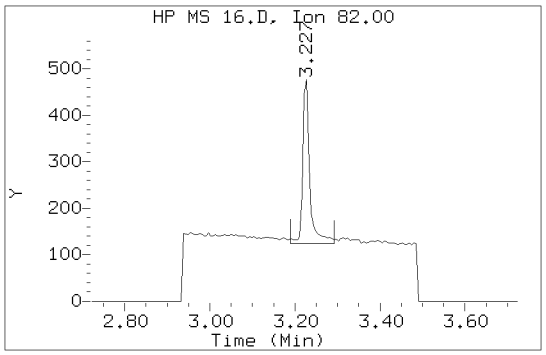
BEFORE

MASS
82
AREA
2545
HEIGHT
477
26-Jun-2023
15:55
ALSHS
Server



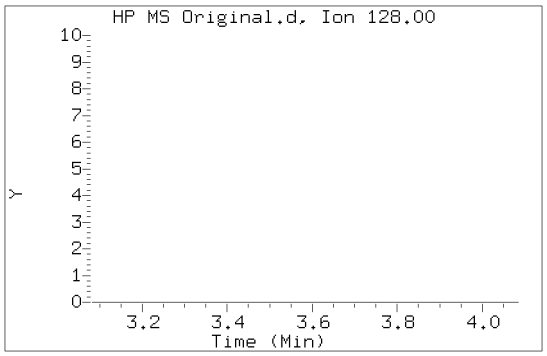

AFTER

MASS
82
AREA
402
HEIGHT
353
29-Jun-2023
16:30
ALSHS
Ser



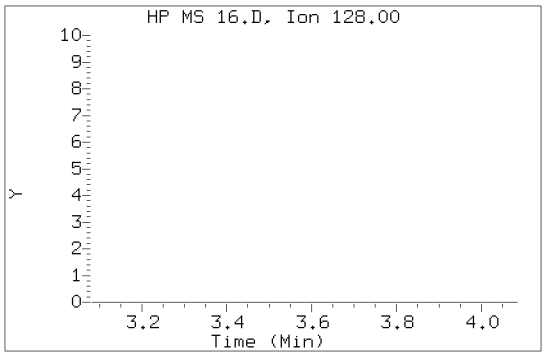

BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jun-2023
15:55
ALSHS
Server



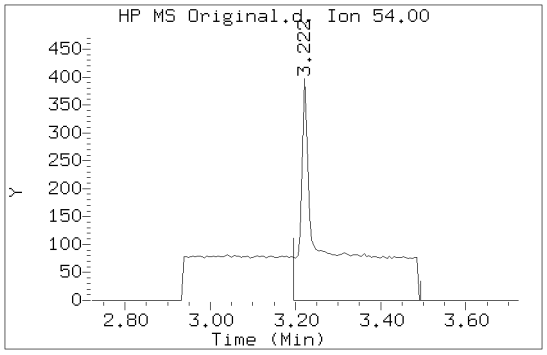

AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
16:30
ALSHS
Ser



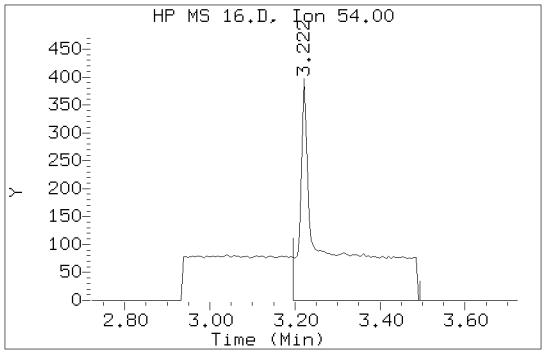

BEFORE

MASS
54
AREA
1684
HEIGHT
397
26-Jun-2023
15:55
ALSHS
Server




AFTER

MASS
54
AREA
1684
HEIGHT
397
29-Jun-2023
16:30
ALSHS
Ser

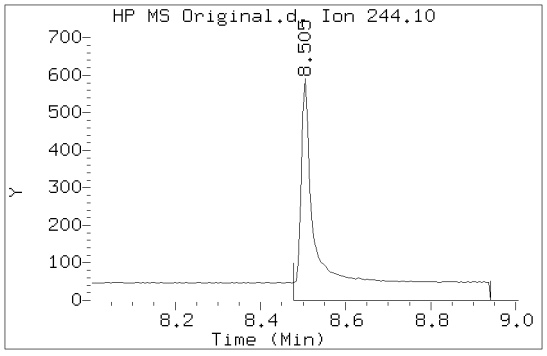



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

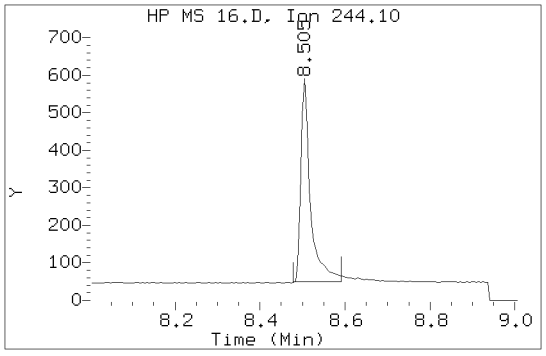
BEFORE

MASS
244.1
AREA
2258
HEIGHT
591
26-Jun-2023
15:55
ALSHS
Server




AFTER

MASS
244.1
AREA
848
HEIGHT
542
29-Jun-2023
16:30
ALSHS
Ser

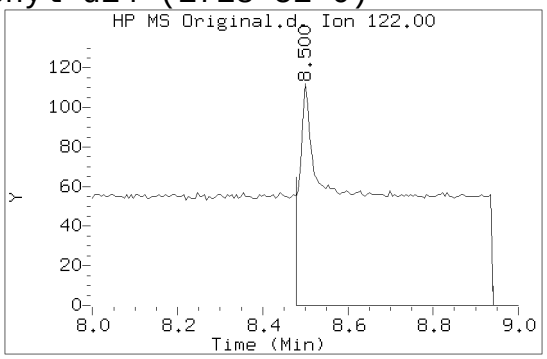


Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\16.D
Inj Date : 26-JUN-2023 15:40
InstruID : SV6.i
LabSampID : HS23061096-04

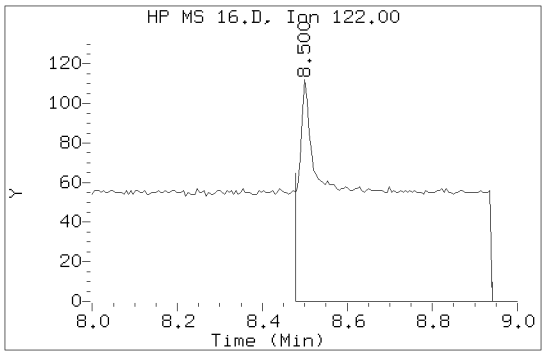
## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

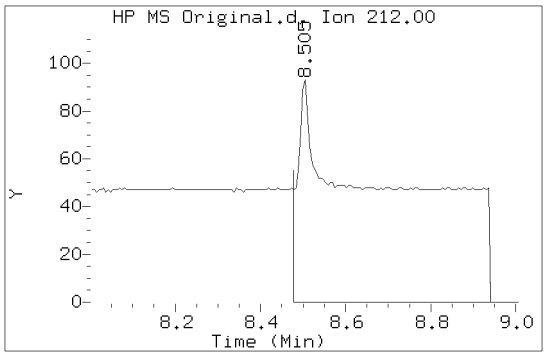
BEFORE
MASS
122
AREA
1629
HEIGHT
112
26-Jun-2023
15:55
ALSHS
Server



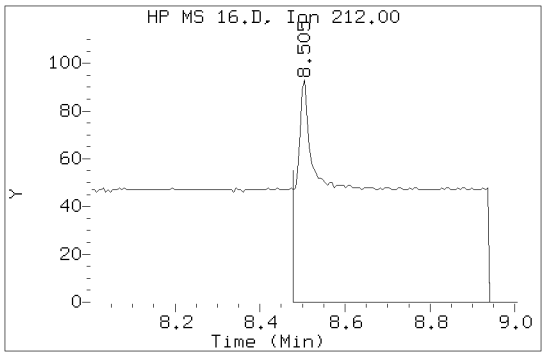

AFTER
MASS
122
AREA
1629
HEIGHT
112
29-Jun-2023
16:30
ALSHS
Ser




BEFORE
MASS
212
AREA
1389
HEIGHT
93
26-Jun-2023
15:55
ALSHS
Server



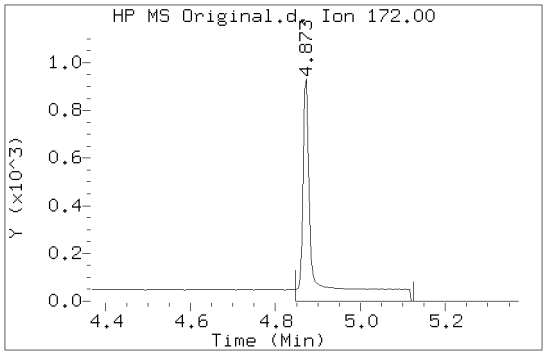

AFTER
MASS
212
AREA
1389
HEIGHT
93
29-Jun-2023
16:30
ALSHS
Ser



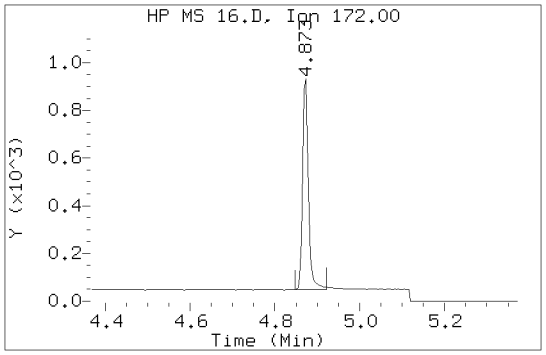

## 2-Fluorobiphenyl (321-60-8)

Reason Code:

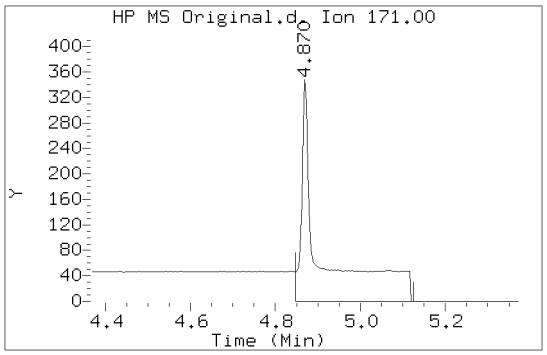
BEFORE
MASS
172
AREA
1680
HEIGHT
932
26-Jun-2023
15:55
ALSHS
Server



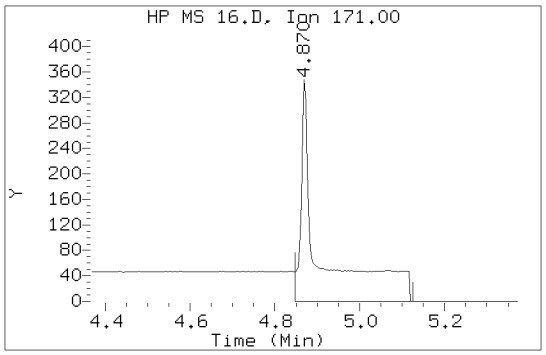

AFTER
MASS
172
AREA
851
HEIGHT
884
29-Jun-2023
16:30
ALSHS
Ser




BEFORE
MASS
171
AREA
1060
HEIGHT
348
26-Jun-2023
15:55
ALSHS
Server




AFTER
MASS
171
AREA
1060
HEIGHT
348
29-Jun-2023
16:30
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230626.b\17.D Page 1
Report Date: 29-Jun-2023 16:30

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230626.b\17.D
Lab Smp Id: 14DXCCV-END Client Smp ID: 14DXCCV-END
Inj Date : 26-JUN-2023 15:58
Operator : LG Inst ID: SV6.i
Smp Info : 14DXCCV-END
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230626.b\DXSIM.m
Meth Date : 29-Jun-2023 16:30 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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 | 2.776 | 2.776 | (1.000) | 4065 | 0.10000 | (a) |
| * 45 Naphthalene-d8 | 136 | 3.848 | 3.848 | (1.000) | 13094 | 0.10000 | (M) |
| $ 33 Nitrobenzene-d5 | 82 | 3.222 | 3.222 | (0.837) | 2895 | 0.08000 | 0.07277(M) |
| * 86 Acenaphthene-d10 | 164 | 5.489 | 5.489 | (1.000) | 7706 | 0.10000 | (M) |
| $ 69 2-Fluorobiphenyl | 172 | 4.869 | 4.869 | (0.887) | 6396 | 0.08000 | 0.08117 |
| * 126 Phenanthrene-d10 | 188 | 6.918 | 6.918 | (1.000) | 15649 | 0.10000 | |
| * 182 Chrysene-d12 | 240 | 9.527 | 9.527 | (1.000) | 10875 | 0.10000 | (M) |
| $ 158 4-Terphenyl-d14 | 244 | 8.505 | 8.505 | (0.893) | 6532 | 0.08000 | 0.08141(M) |
| * 198 Perylene-d12 | 264 | 11.288 | 11.288 | (1.000) | 9163 | 0.10000 | |
| 1 1,4-Dioxane | 58 | 1.206 | 1.206 | (0.434) | 1021 | 0.08000 | 0.07402(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.

01196942

Data File: \\NAHSTWS005\Target\chem\SV6.i\230626.b\17.D



Date : 26-JUN-2023 15:58

Client ID: 14DXCCV-END

Instrument: SV6.i

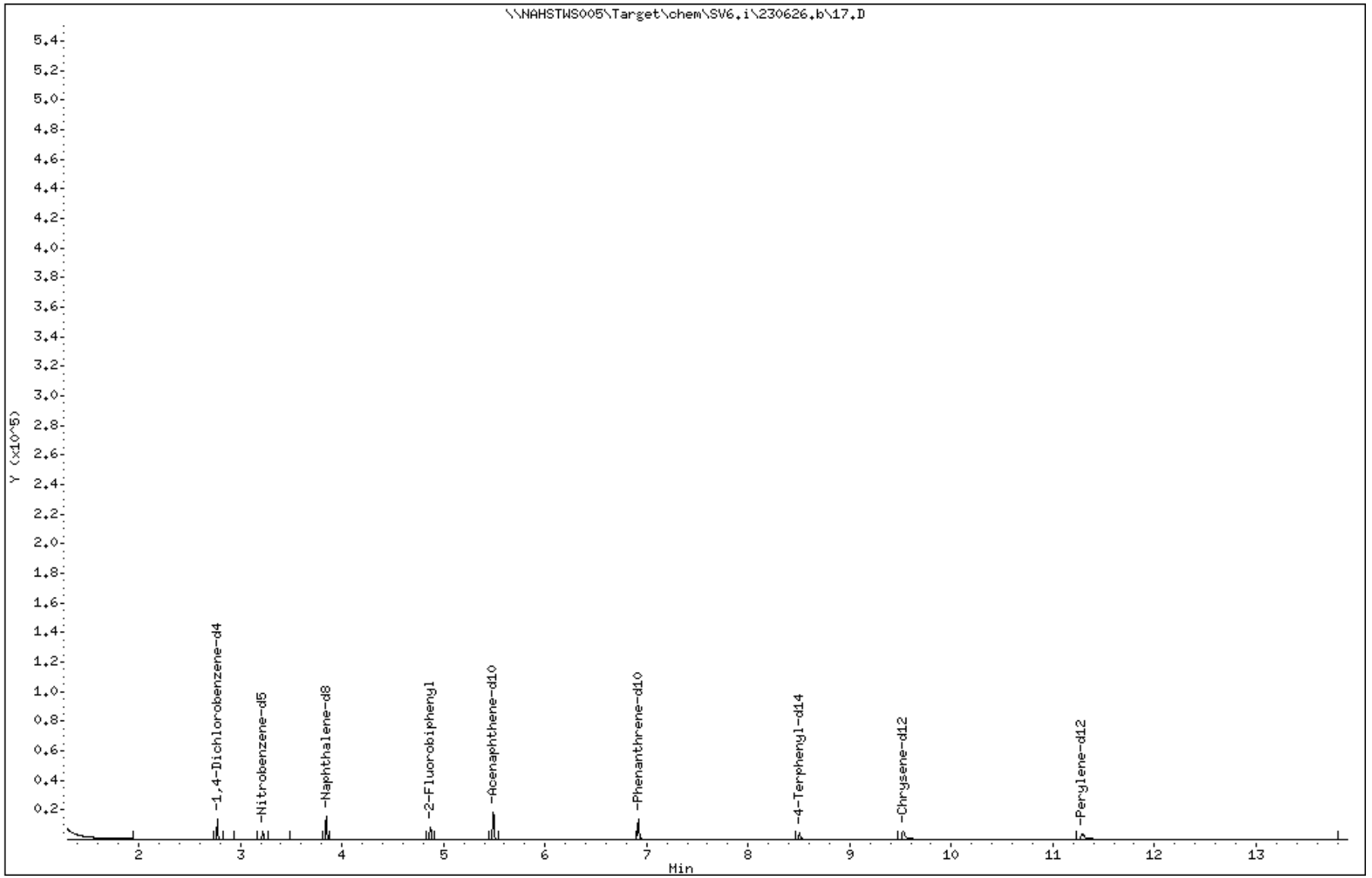
Sample Info: 14DXCCV-END

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



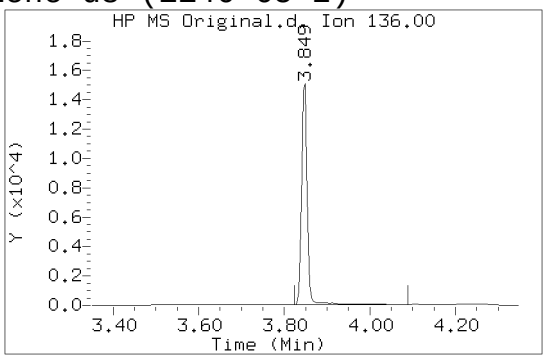
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\17.D
Inj Date : 26-JUN-2023 15:58
InstruID : SV6.i
LabSampID : 14DXCCV-END

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

Reason Code:

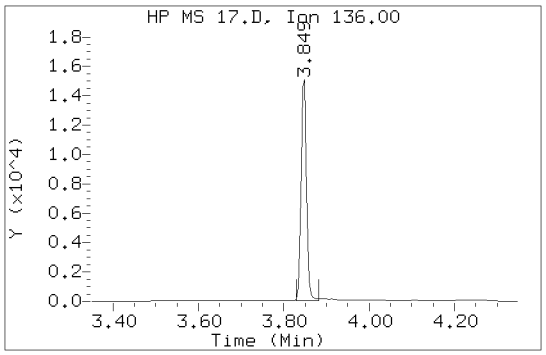
BEFORE

MASS
136
AREA
13526
HEIGHT
15042
26-Jun-2023
16:13
ALSHS
Server



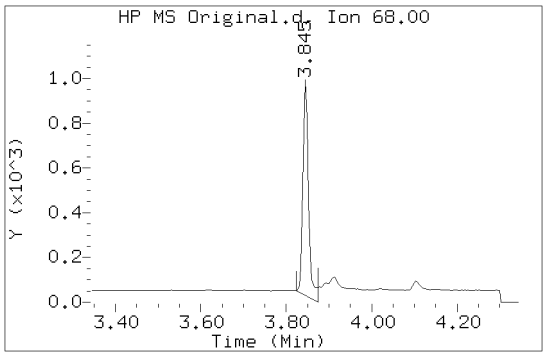

AFTER

MASS
136
AREA
13094
HEIGHT
15044
29-Jun-2023
16:30
ALSHS
Ser



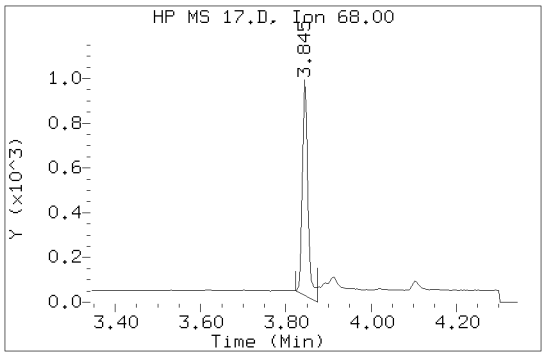

BEFORE

MASS
68
AREA
875
HEIGHT
963
26-Jun-2023
16:13
ALSHS
Server




AFTER

MASS
68
AREA
875
HEIGHT
963
29-Jun-2023
16:30
ALSHS
Ser

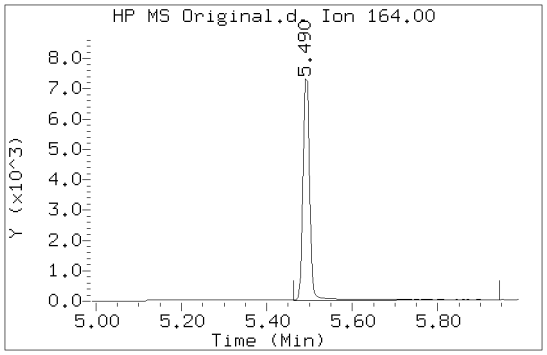



## Acenaphthene-d10 (15067-26-2)

Reason Code:

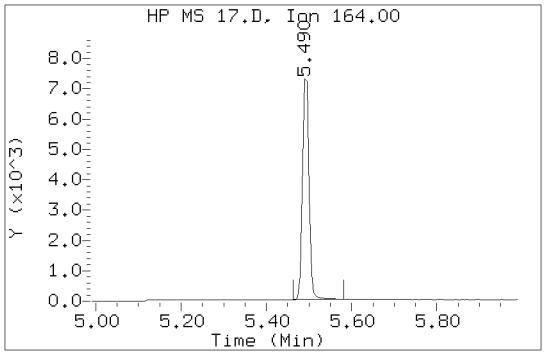
BEFORE

MASS
164
AREA
8262
HEIGHT
7301
26-Jun-2023
16:13
ALSHS
Server



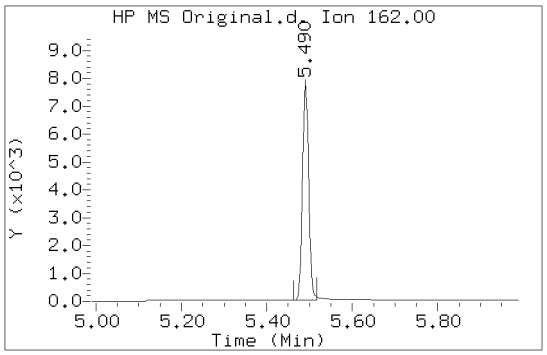

AFTER

MASS
164
AREA
7706
HEIGHT
7270
29-Jun-2023
16:30
ALSHS
Ser



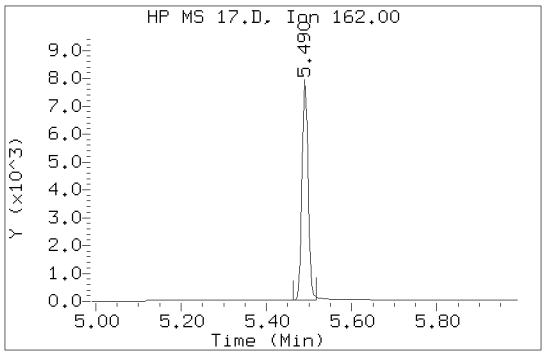

BEFORE

MASS
162
AREA
7676
HEIGHT
7901
26-Jun-2023
16:13
ALSHS
Server




AFTER

MASS
162
AREA
7676
HEIGHT
7901
29-Jun-2023
16:30
ALSHS
Ser



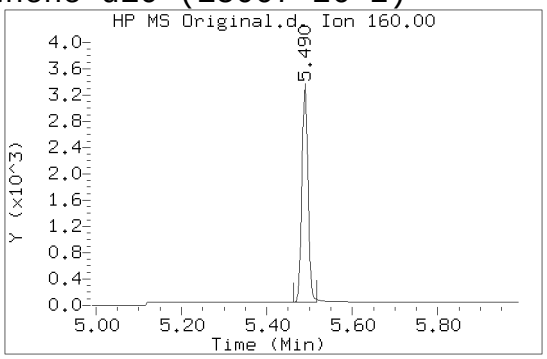
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\17.D
Inj Date : 26-JUN-2023 15:58
InstruID : SV6.i
LabSampID : 14DXCCV-END

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

Reason Code:

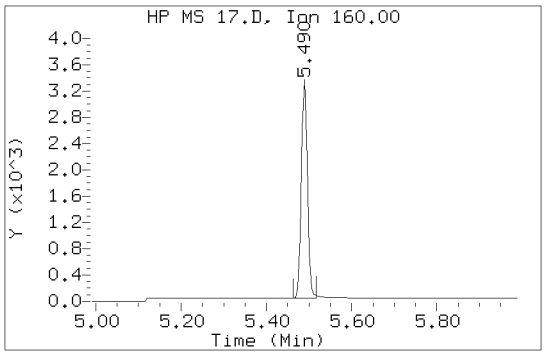
**BEFORE**

MASS
160
AREA
3219
HEIGHT
3325
26-Jun-2023
16:13
ALSHS
Server




**AFTER**

MASS
160
AREA
3219
HEIGHT
3325
29-Jun-2023
16:30
ALSHS
Ser

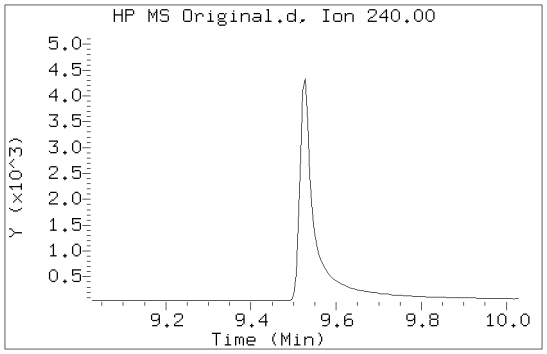



## Chrysene-d12 (1719-03-5)

Reason Code:

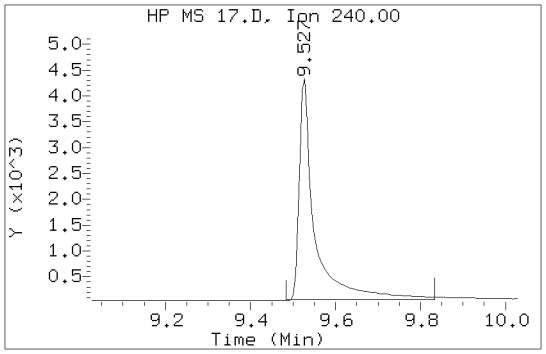
**BEFORE**

MASS
240
AREA
0
HEIGHT
0
26-Jun-2023
16:13
ALSHS
Server



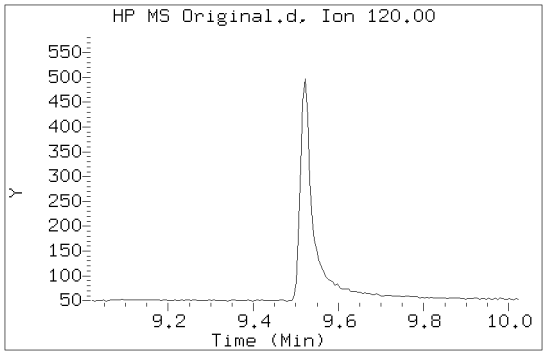

**AFTER**

MASS
240
AREA
10875
HEIGHT
4278
29-Jun-2023
16:30
ALSHS
Ser



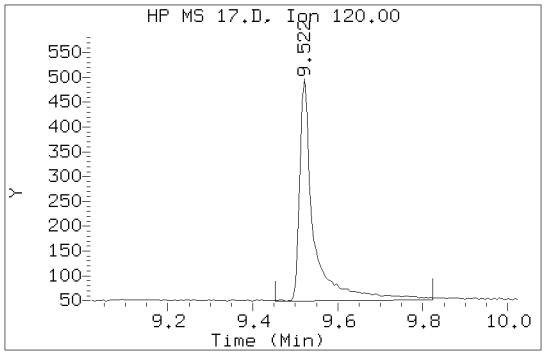

**BEFORE**

MASS
120
AREA
0
HEIGHT
0
26-Jun-2023
16:13
ALSHS
Server



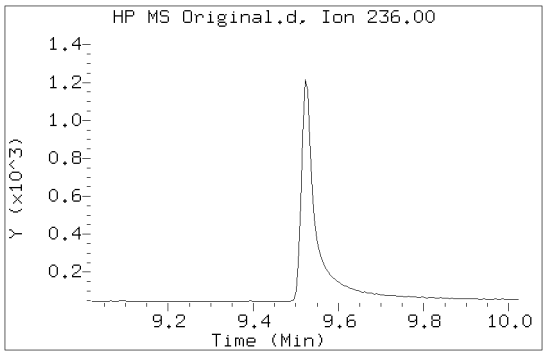

**AFTER**

MASS
120
AREA
1050
HEIGHT
447
29-Jun-2023
16:30
ALSHS
Ser



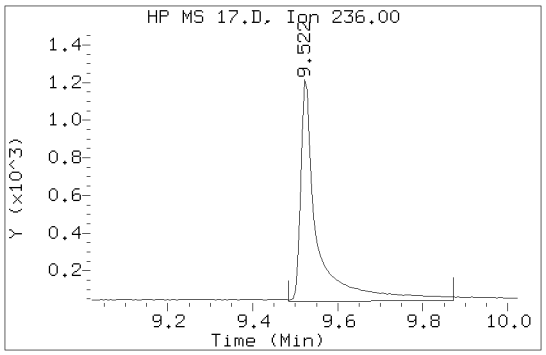

**BEFORE**

MASS
236
AREA
0
HEIGHT
0
26-Jun-2023
16:13
ALSHS
Server




**AFTER**

MASS
236
AREA
3186
HEIGHT
1176
29-Jun-2023
16:30
ALSHS
Ser



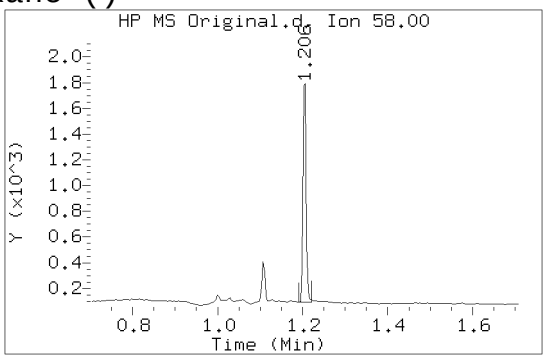
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\17.D
Inj Date : 26-JUN-2023 15:58
InstruID : SV6.i
LabSampID : 14DXCCV-END

## 1,4-Dioxane ()

Reason Code:

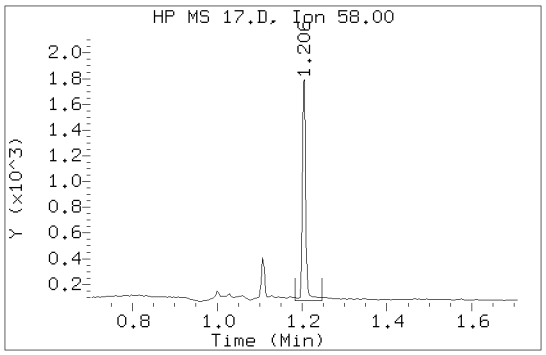
**BEFORE**

MASS
58
AREA
932
HEIGHT
1697
26-Jun-2023
16:13
ALSHS
Server



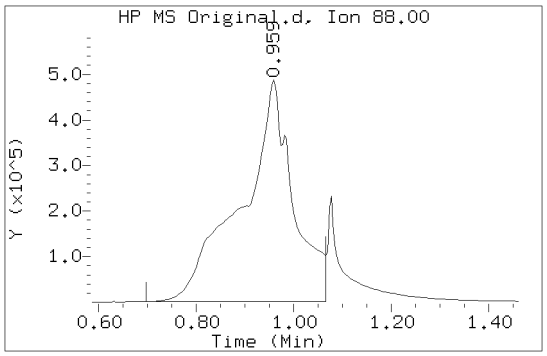

**AFTER**

MASS
58
AREA
1021
HEIGHT
1717
29-Jun-2023
16:30
ALSHS
Ser



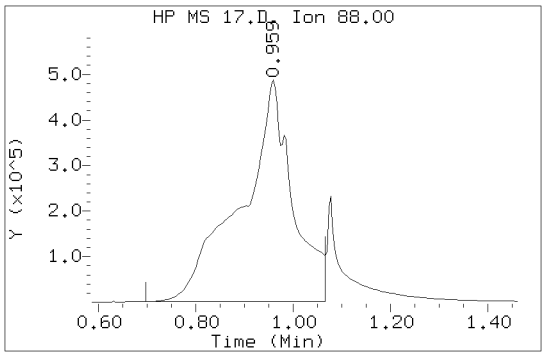

**BEFORE**

MASS
88
AREA
3569453
HEIGHT
486521
26-Jun-2023
16:13
ALSHS
Server




**AFTER**

MASS
88
AREA
3569453
HEIGHT
486521
29-Jun-2023
16:30
ALSHS
Ser

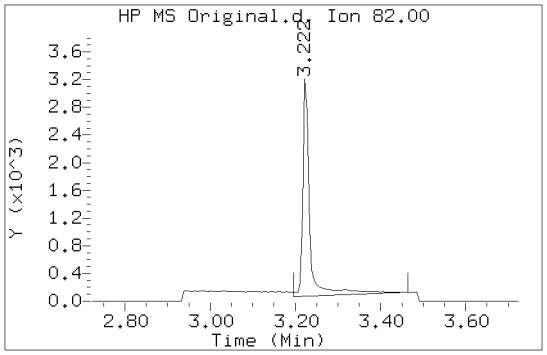



## Nitrobenzene-d5 (4165-60-0)

Reason Code:

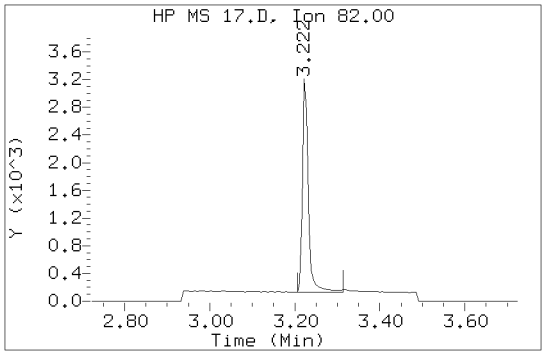
**BEFORE**

MASS
82
AREA
3578
HEIGHT
3141
26-Jun-2023
16:13
ALSHS
Server



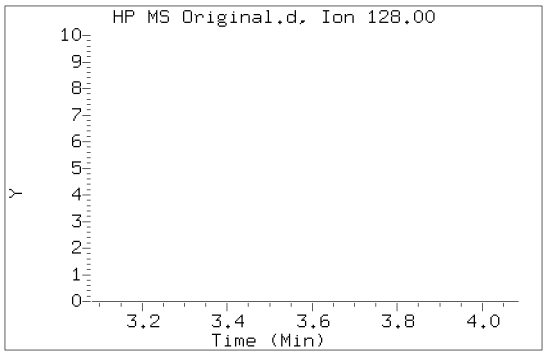

**AFTER**

MASS
82
AREA
2895
HEIGHT
3078
29-Jun-2023
16:30
ALSHS
Ser



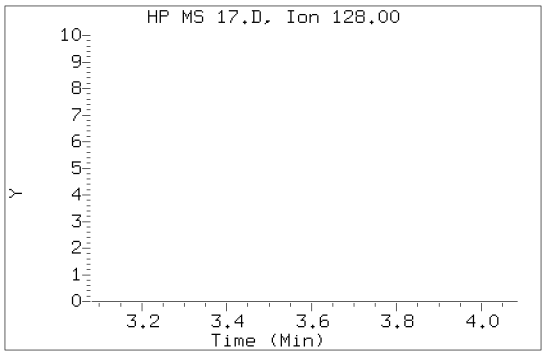

**BEFORE**

MASS
128
AREA
0
HEIGHT
0
26-Jun-2023
16:13
ALSHS
Server




**AFTER**

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
16:30
ALSHS
Ser



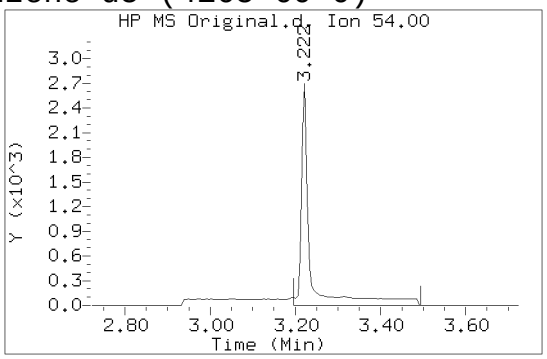
Data File : \\NAHSTWS005\Target\chem\SV6.i\230626.b\17.D
Inj Date : 26-JUN-2023 15:58
InstruID : SV6.i
LabSampID : 14DXCCV-END

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

Reason Code:

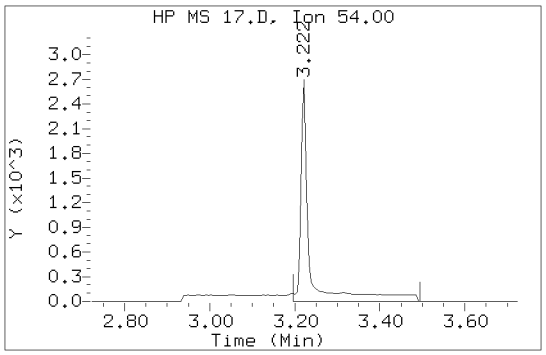
**BEFORE**

MASS
54
AREA
3829
HEIGHT
2695
26-Jun-2023
16:13
ALSHS
Server




**AFTER**

MASS
54
AREA
3829
HEIGHT
2695
29-Jun-2023
16:30
ALSHS
Ser

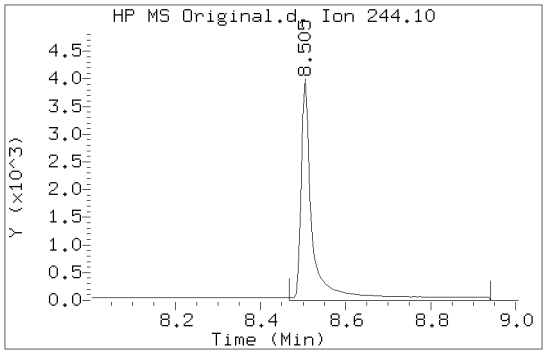



## 4-Terphenyl-d14 (1718-51-0)

Reason Code:

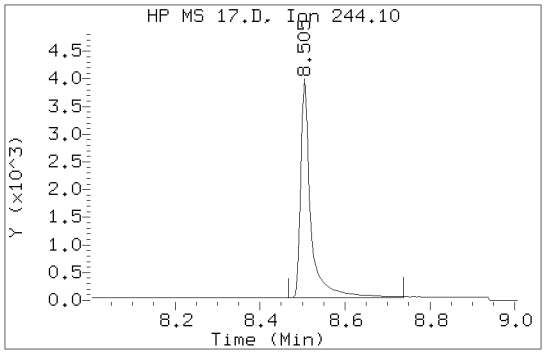
**BEFORE**

MASS
244.1
AREA
8004
HEIGHT
4003
26-Jun-2023
16:13
ALSHS
Server



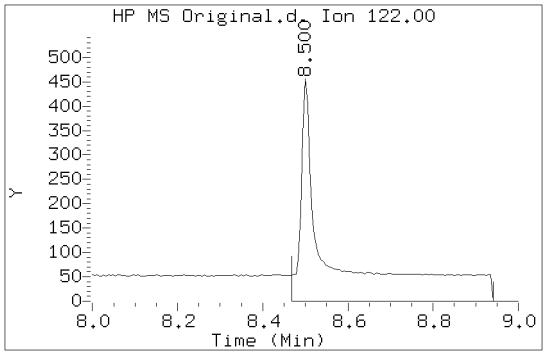

**AFTER**

MASS
244.1
AREA
6532
HEIGHT
3956
29-Jun-2023
16:30
ALSHS
Ser



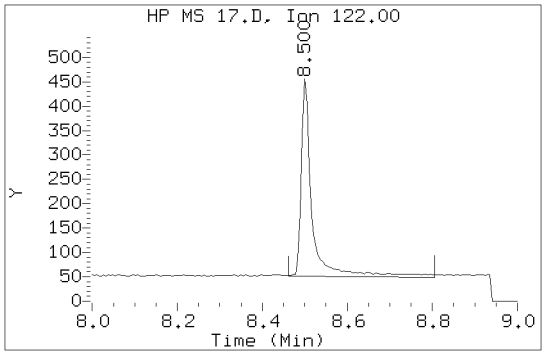

**BEFORE**

MASS
122
AREA
2172
HEIGHT
456
26-Jun-2023
16:13
ALSHS
Server



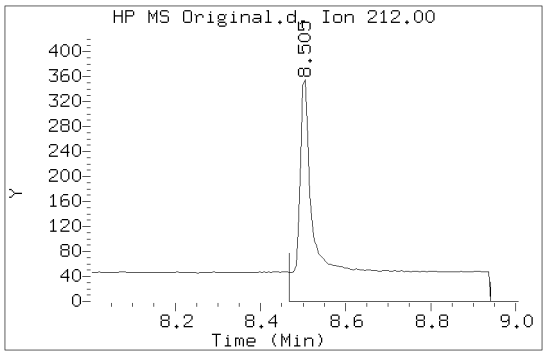

**AFTER**

MASS
122
AREA
723
HEIGHT
405
29-Jun-2023
16:30
ALSHS
Ser



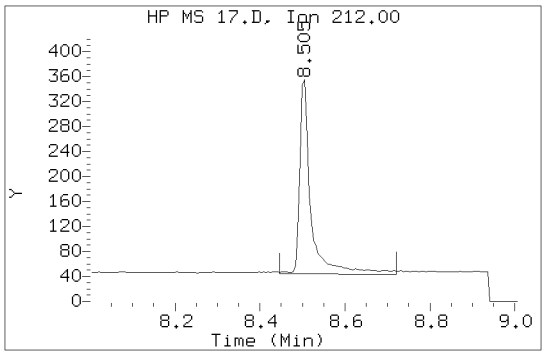

**BEFORE**

MASS
212
AREA
1856
HEIGHT
355
26-Jun-2023
16:13
ALSHS
Server




**AFTER**

MASS
212
AREA
573
HEIGHT
311
29-Jun-2023
16:30
ALSHS
Ser



# HS23061096 - ME - HG_W_DODICP_W_DOD

ALS WO# HS23061096

**ALS Houston, US** Date: 29-Jun-23

## Form 11 - INTERNAL STANDARD ASSOCIATION

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

Instrument:ICPMS06

| Mass | Analyte | Assoc Int Standard 1 | Assoc Int Standard 2 | Mode |
|---|---|---|---|---|
| 9 | Beryllium | Lithium | | Ar |
| 11 | Boron | Lithium | | Ar |
| 23 | Sodium | Germanium | | ArHe |
| 24 | Magnesium | Germanium | | ArHe |
| 27 | Aluminum | Germanium | | ArHe |
| 39 | Potassium | Germanium | | ArHe |
| 44 | Calcium | Germanium | | Ar |
| 47 | Titanium | Germanium | | Ar |
| 51 | Vanadium | Germanium | | ArHe |
| 52 | Chromium | Germanium | | ArHe |
| 55 | Manganese | Germanium | | ArHe |
| 56 | Iron | Germanium | | ArHe |
| 59 | Cobalt | Germanium | | ArHe |
| 60 | Nickel | Germanium | | ArHe |
| 63 | Copper | Germanium | | ArHe |
| 66 | Zinc | Germanium | | ArHe |
| 75 | Arsenic | Germanium | | ArHe |
| 82 | Selenium | Germanium | | Ar |
| 88 | Strontium | Indium | | Ar |
| 95 | Molybdenum | Indium | | Ar |
| 105 | Palladium | Germanium | | Ar |
| 107 | Silver | Indium | | Ar |
| 114 | Cadmium | Indium | | Ar |
| 118 | Tin | Indium | | Ar |
| 121 | Antimony | Germanium | | ArHe |
| 137 | Barium | Indium | | Ar |
| 205 | Thallium | Bismuth | | Ar |
| 208 | Lead | Bismuth | | Ar |

**ALS Houston, US** Date: 29-Jun-23

## FORM 13 - ANALYSIS RUN LOG

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096
Start Date: 27-Jun-2023 End Date: 27-Jun-2023

Run ID:HG04_440017
Instrument:HG04
Method:SW7470A

| Sample No. | D/F | Time | FileID | Analytes |
|---|---|---|---|---|
| ICCV 1 | 1 | 27-Jun-2023 14:20 | HG04_440017 Raw Data_7387924 | HG |
| ICV | 1 | 27-Jun-2023 14:22 | _7387925 | HG |
| ICB | 1 | 27-Jun-2023 14:24 | _7387926 | HG |
| CRA | 1 | 27-Jun-2023 14:25 | _7387927 | HG |
| CCV 2 | 1 | 27-Jun-2023 14:38 | _7387928 | HG |
| CCB 1 | 1 | 27-Jun-2023 14:39 | _7387929 | HG |
| CCV 3 | 1 | 27-Jun-2023 15:01 | _7387940 | HG |
| CCB 2 | 1 | 27-Jun-2023 15:02 | _7387941 | HG |
| CCV 4 | 1 | 27-Jun-2023 15:26 | _7387952 | HG |
| CCB 3 | 1 | 27-Jun-2023 15:28 | _7387953 | HG |
| CCV 5 | 1 | 27-Jun-2023 15:57 | _7387957 | HG |
| CCB 4 | 1 | 27-Jun-2023 15:59 | _7387958 | HG |
| CCV 6 | 1 | 27-Jun-2023 16:26 | _7388076 | HG |
| CCB 5 | 1 | 27-Jun-2023 16:28 | _7388077 | HG |
| CCV 7 | 1 | 27-Jun-2023 16:49 | _7388085 | HG |
| CCB 6 | 1 | 27-Jun-2023 16:50 | _7388086 | HG |
| CCV 8 | 1 | 27-Jun-2023 17:22 | _7388408 | HG |
| CCB 7 | 1 | 27-Jun-2023 17:23 | _7388409 | HG |
| CCV 9 | 1 | 27-Jun-2023 18:06 | _7388420 | HG |
| CCB 8 | 1 | 27-Jun-2023 18:08 | _7388421 | HG |
| CCV 10 | 1 | 27-Jun-2023 18:31 | _7388432 | HG |
| CCB 9 | 1 | 27-Jun-2023 18:33 | _7388433 | HG |
| CCV 11 | 1 | 27-Jun-2023 18:59 | _7388444 | HG |
| CCB 10 | 1 | 27-Jun-2023 19:00 | _7388445 | HG |
| CCV 12 | 1 | 27-Jun-2023 19:27 | _7388456 | HG |
| CCB 11 | 1 | 27-Jun-2023 19:29 | _7388457 | HG |
| MBLK-196820 | 1 | 27-Jun-2023 19:35 | _7388460 | HG |
| LCS-196820 | 1 | 27-Jun-2023 19:56 | _7388461 | HG |
| ZZZZZZMS | 1 | 27-Jun-2023 20:03 | _7388464 | HG |
| ZZZZZZMSD | 1 | 27-Jun-2023 20:07 | _7388465 | HG |
| CCV 13 | 1 | 27-Jun-2023 20:12 | _7388468 | HG |
| CCB 12 | 1 | 27-Jun-2023 20:14 | _7388469 | HG |
| AWD3_061423 | 1 | 27-Jun-2023 20:23 | _7388472 | HG |
| 18CPTMW12SW_061423 | 1 | 27-Jun-2023 20:25 | _7388473 | HG |
| 18CPTMW12DW_061423 | 1 | 27-Jun-2023 20:27 | _7388474 | HG |
| 130_061423 | 1 | 27-Jun-2023 20:28 | _7388475 | HG |
| 130_061423_a | 1 | 27-Jun-2023 20:30 | _7388476 | HG |
| 18WW02_061423 | 1 | 27-Jun-2023 20:32 | _7388477 | HG |
| CCV 14 | 1 | 27-Jun-2023 20:40 | _7388480 | HG |
| CCB 13 | 1 | 27-Jun-2023 20:42 | _7388481 | HG |
| CCV 15 | 1 | 27-Jun-2023 21:05 | _7388491 | HG |
| CCB 14 | 1 | 27-Jun-2023 21:06 | _7388492 | HG |

**ALS Houston, US**

Date: 29-Jun-23

## FORM 13 - ANALYSIS RUN LOG

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096
Start Date: 28-Jun-2023 End Date: 28-Jun-2023

Run ID:ICPMS06_440069
Instrument:ICPMS06
Method:

| Sample No. | D/F | Time | FileID | Analytes |
|---|---|---|---|---|
| ICPMS06_440069_Tune | 1 | 28-Jun-2023 00:00 | ICPMS06_440069_Tune_1 | |
| CAL BLK | 1 | 28-Jun-2023 10:39 | 013CALB.d_7389561 | 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-2023 10:41 | 014CALS.d_7389562 | 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-2023 10:43 | 015CALS.d_7389563 | 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-2023 10:45 | 016CALS.d_7389564 | 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-2023 10:47 | 017CALS.d_7389565 | 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-2023 10:48 | 018CALS.d_7389566 | 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-2023 10:54 | 020_ICV.d_7389568 | 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-2023 10:58 | 022LCV2.d_7389570 | 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-2023 11:20 | 027_ICB.d_7389575 | 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-2023 11:21 | 028LCV5.d_7389576 | 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-2023 11:26 | 030ICSA.d_7389615 | 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-2023 11:28 | 031ICSB.d_7389616 | 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-2023 13:20 | 085CALB.d_7390387 | 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-2023 13:22 | 086CALS.d_7390388 | 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-2023 13:24 | 087CALS.d_7390389 | 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-2023 13:26 | 088CALS.d_7390390 | 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-2023 13:28 | 089CALS.d_7390391 | 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-2023 13:29 | 090CALS.d_7390392 | 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-2023 13:39 | 095_ICB.d_7390397 | 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-2023 13:45 | 097LCV2.d_7390399 | 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-2023 13:47 | 098LCV5.d_7390400 | 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-2023 13:49 | 099_ICV.d_7390401 | 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-2023 16:34 | 174_CCV.d_7391177 | 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-2023 16:36 | 175_CCB.d_7391178 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| MBLK-196608 | 1 | 28-Jun-2023 16:37 | 176SMPL.d_7391179 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| LCS-196608 | 1 | 28-Jun-2023 16:39 | 177SMPL.d_7391180 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE V ZN |
| ZZZZZZSD | 5 | 28-Jun-2023 16:43 | 179SMPL.d_7391182 | AG AL AS BA BE CD CO CR CU FE K PB SB SE TL V ZN |
| ZZZZZZMS | 1 | 28-Jun-2023 16:45 | 180SMPL.d_7391183 | 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-2023 16:47 | 181SMPL.d_7391184 | 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-2023 16:49 | 182SMPL.d_7391185 | AG AL AS BA BE CD CO CR CU FE K PB SB SE TL V ZN |
| CCV 2 | 1 | 28-Jun-2023 16:57 | 185_CCV.d_7391188 | 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: 29-Jun-23

## FORM 13 - ANALYSIS RUN LOG

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096
Start Date: 28-Jun-2023 End Date: 28-Jun-2023

Run ID:ICPMS06_440069
Instrument:ICPMS06
Method:

| Sample No. | D/F | Time | FileID | Analytes |
|---|---|---|---|---|
| CCB 3 | 1 | 28-Jun-2023 16:59 | 186_CCB.d_7391189 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| AWD3_061423 | 1 | 28-Jun-2023 17:14 | 194SMPL.d_7391197 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 18CPTMW12SW_061423 | 1 | 28-Jun-2023 17:16 | 195SMPL.d_7391198 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN |
| 18CPTMW12DW_061423 | 1 | 28-Jun-2023 17:18 | 196SMPL.d_7391199 | 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-2023 17:22 | 198_CCB.d_7391288 | 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-2023 17:42 | 201_CCV.d_7391291 | 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-2023 17:44 | 202_CCV.d_7391292 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| 130_061423 | 1 | 28-Jun-2023 17:46 | 203SMPL.d_7391293 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN |
| 130_061423_a | 1 | 28-Jun-2023 17:48 | 204SMPL.d_7391294 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN |
| 18WW02_061423 | 1 | 28-Jun-2023 17:49 | 205SMPL.d_7391295 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| LCS-196608 | 1 | 28-Jun-2023 17:56 | 208SMPL.d_7391298 | TL |
| ZZZZZZSD | 25 | 28-Jun-2023 18:00 | 210SMPL.d_7391300 | CA MG MN NA NI |
| CCV 5 | 1 | 28-Jun-2023 18:02 | 211_CCV.d_7391301 | 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-2023 18:04 | 212_CCB.d_7391302 | AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN |
| ZZZZZZPDS | 5 | 28-Jun-2023 18:06 | 213SMPL.d_7391303 | CA MG MN NA NI |
| 18CPTMW12SW_061423 | 20 | 28-Jun-2023 18:23 | 218SMPL.d_7391313 | NA |
| 130_061423 | 20 | 28-Jun-2023 18:25 | 219SMPL.d_7391314 | NA |
| 130_061423_a | 20 | 28-Jun-2023 18:27 | 220SMPL.d_7391315 | NA |
| CCV 6 | 1 | 28-Jun-2023 18:33 | 222_CCV.d_7391317 | 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-2023 18:34 | 223_CCB.d_7391318 | 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: 29-Jun-23

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

Run ID: HG04_440017
Instrument: HG04
Method: SW7470A

| ICCV1 | Date: 27-Jun-2023 14:20 | | Seq: 7387924 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.01 | 100 | 90-110 | |

| ICV | Date: 27-Jun-2023 14:22 | | Seq: 7387925 | ICV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.63 | 93 | 90-110 | |

| CCV2 | Date: 27-Jun-2023 14:38 | | Seq: 7387928 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.93 | 99 | 90-110 | |

| CCV3 | Date: 27-Jun-2023 15:01 | | Seq: 7387940 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.05 | 101 | 90-110 | |

| CCV4 | Date: 27-Jun-2023 15:26 | | Seq: 7387952 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.01 | 100 | 90-110 | |

| CCV5 | Date: 27-Jun-2023 15:57 | | Seq: 7387957 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.08 | 102 | 90-110 | |

| CCV6 | Date: 27-Jun-2023 16:26 | | Seq: 7388076 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.16 | 103 | 90-110 | |

| CCV7 | Date: 27-Jun-2023 16:49 | | Seq: 7388085 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.17 | 103 | 90-110 | |

| CCV8 | Date: 27-Jun-2023 17:22 | | Seq: 7388408 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.85 | 97 | 90-110 | |

| CCV9 | Date: 27-Jun-2023 18:06 | | Seq: 7388420 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.02 | 100 | 90-110 | |

| CCV10 | Date: 27-Jun-2023 18:31 | | Seq: 7388432 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 4.97 | 99 | 90-110 | |

| CCV11 | Date: 27-Jun-2023 18:59 | | Seq: 7388444 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.08 | 102 | 90-110 | |

| CCV12 | Date: 27-Jun-2023 19:27 | | Seq: 7388456 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.01 | 100 | 90-110 | |

| CCV13 | Date: 27-Jun-2023 20:12 | | Seq: 7388468 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Mercury | 5 | 5.01 | 100 | 90-110 | |

**ALS Houston, US**

Date: 29-Jun-23

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

Run ID: HG04_440017
Instrument: HG04
Method: SW7470A

CCV14 Date: 27-Jun-2023 20:40 Seq: 7388480 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 4.52 | 90 | 90-110 | |

CCV15 Date: 27-Jun-2023 21:05 Seq: 7388491 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Mercury | 5 | 5.06 | 101 | 90-110 | |

**ALS Houston, US** Date: 29-Jun-23

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

Run ID: ICPMS06_440069
Instrument: ICPMS06
Method: SW6020A

ICV Date: 28-Jun-2023 10:54 Seq: 7389568 ICV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 106.081 | 106 | 90-110 | |
| Antimony | 100 | 96.728 | 97 | 90-110 | |
| Arsenic | 100 | 98.319 | 98 | 90-110 | |
| Barium | 100 | 99.199 | 99 | 90-110 | |
| Beryllium | 100 | 99.13 | 99 | 90-110 | |
| Cadmium | 100 | 97.019 | 97 | 90-110 | |
| Calcium | 10000 | 10036.24 | 100 | 90-110 | |
| Chromium | 100 | 104.352 | 104 | 90-110 | |
| Cobalt | 100 | 97.919 | 98 | 90-110 | |
| Copper | 100 | 98.029 | 98 | 90-110 | |
| Iron | 10000 | 9905.1 | 99 | 90-110 | |
| Lead | 100 | 97.221 | 97 | 90-110 | |
| Magnesium | 10000 | 10278.687 | 103 | 90-110 | |
| Manganese | 100 | 99.95 | 100 | 90-110 | |
| Nickel | 100 | 106.449 | 106 | 90-110 | |
| Potassium | 10000 | 10035.541 | 100 | 90-110 | |
| Selenium | 100 | 93.85 | 94 | 90-110 | |
| Silver | 100 | 100.75 | 101 | 90-110 | |
| Sodium | 10000 | 10075.067 | 101 | 90-110 | |
| Thallium | 100 | 93.7 | 94 | 90-110 | |
| Vanadium | 100 | 98.956 | 99 | 90-110 | |
| Zinc | 100 | 100.819 | 101 | 90-110 | |

ICV Date: 28-Jun-2023 13:49 Seq: 7390401 ICV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 103.23 | 103 | 90-110 | |
| Antimony | 100 | 99.21 | 99 | 90-110 | |
| Arsenic | 100 | 102.072 | 102 | 90-110 | |
| Barium | 100 | 97.02 | 97 | 90-110 | |
| Beryllium | 100 | 100.371 | 100 | 90-110 | |
| Cadmium | 100 | 97.417 | 97 | 90-110 | |
| Calcium | 10000 | 10147.622 | 101 | 90-110 | |
| Chromium | 100 | 101.42 | 101 | 90-110 | |
| Cobalt | 100 | 101.419 | 101 | 90-110 | |
| Copper | 100 | 102.455 | 102 | 90-110 | |
| Iron | 10000 | 10085.837 | 101 | 90-110 | |
| Lead | 100 | 97.329 | 97 | 90-110 | |
| Magnesium | 10000 | 10252.135 | 103 | 90-110 | |
| Manganese | 100 | 101.911 | 102 | 90-110 | |
| Nickel | 100 | 101.478 | 101 | 90-110 | |
| Potassium | 10000 | 10235.046 | 102 | 90-110 | |
| Selenium | 100 | 104.246 | 104 | 90-110 | |
| Silver | 100 | 99.2 | 99 | 90-110 | |
| Sodium | 10000 | 10257.804 | 103 | 90-110 | |
| Thallium | 100 | 98.986 | 99 | 90-110 | |
| Vanadium | 100 | 100.189 | 100 | 90-110 | |
| Zinc | 100 | 101.447 | 101 | 90-110 | |

CCV1 Date: 28-Jun-2023 16:34 Seq: 7391177 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 103.087 | 103 | 90-110 | |
| Antimony | 100 | 97.054 | 97 | 90-110 | |
| Arsenic | 100 | 96.01 | 96 | 90-110 | |
| Barium | 100 | 98.514 | 99 | 90-110 | |
| Beryllium | 100 | 100.141 | 100 | 90-110 | |

**ALS Houston, US** Date: 29-Jun-23

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

Run ID: ICPMS06_440069
Instrument: ICPMS06
Method: SW6020A

CCV1 Date: 28-Jun-2023 16:34 Seq: 7391177 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Cadmium | 100 | 96.806 | 97 | 90-110 | |
| Calcium | 10000 | 9595.454 | 96 | 90-110 | |
| Chromium | 100 | 102.965 | 103 | 90-110 | |
| Cobalt | 100 | 96.483 | 97 | 90-110 | |
| Copper | 100 | 97.749 | 98 | 90-110 | |
| Iron | 10000 | 9644.835 | 96 | 90-110 | |
| Lead | 100 | 96.224 | 96 | 90-110 | |
| Magnesium | 10000 | 9677.774 | 97 | 90-110 | |
| Manganese | 100 | 97.313 | 97 | 90-110 | |
| Nickel | 100 | 103.51 | 104 | 90-110 | |
| Potassium | 10000 | 9488.853 | 95 | 90-110 | |
| Selenium | 100 | 97.518 | 98 | 90-110 | |
| Silver | 100 | 98.377 | 98 | 90-110 | |
| Sodium | 10000 | 9830.511 | 98 | 90-110 | |
| Thallium | 100 | 93.588 | 94 | 90-110 | |
| Vanadium | 100 | 95.368 | 95 | 90-110 | |
| Zinc | 100 | 100.033 | 100 | 90-110 | |

CCV2 Date: 28-Jun-2023 16:57 Seq: 7391188 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 105.507 | 106 | 90-110 | |
| Antimony | 100 | 101.084 | 101 | 90-110 | |
| Arsenic | 100 | 99.976 | 100 | 90-110 | |
| Barium | 100 | 98.136 | 98 | 90-110 | |
| Beryllium | 100 | 101.505 | 102 | 90-110 | |
| Cadmium | 100 | 97.143 | 97 | 90-110 | |
| Calcium | 10000 | 9943.093 | 99 | 90-110 | |
| Chromium | 100 | 106.289 | 106 | 90-110 | |
| Cobalt | 100 | 100.344 | 100 | 90-110 | |
| Copper | 100 | 102.291 | 102 | 90-110 | |
| Iron | 10000 | 9972.041 | 100 | 90-110 | |
| Lead | 100 | 97.714 | 98 | 90-110 | |
| Magnesium | 10000 | 9967.416 | 100 | 90-110 | |
| Manganese | 100 | 100.336 | 100 | 90-110 | |
| Nickel | 100 | 107.869 | 108 | 90-110 | |
| Potassium | 10000 | 9843.061 | 98 | 90-110 | |
| Selenium | 100 | 101.757 | 102 | 90-110 | |
| Silver | 100 | 99.375 | 99 | 90-110 | |
| Sodium | 10000 | 10266.854 | 103 | 90-110 | |
| Thallium | 100 | 95.803 | 96 | 90-110 | |
| Vanadium | 100 | 98.974 | 99 | 90-110 | |
| Zinc | 100 | 103.712 | 104 | 90-110 | |

CCV3 Date: 28-Jun-2023 17:42 Seq: 7391291 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 103.01 | 103 | 90-110 | |
| Antimony | 100 | 101.741 | 102 | 90-110 | |
| Arsenic | 100 | 100.253 | 100 | 90-110 | |
| Barium | 100 | 97.058 | 97 | 90-110 | |
| Beryllium | 100 | 98.21 | 98 | 90-110 | |
| Cadmium | 100 | 96.12 | 96 | 90-110 | |
| Calcium | 10000 | 9773.072 | 98 | 90-110 | |
| Chromium | 100 | 104.472 | 104 | 90-110 | |
| Cobalt | 100 | 97.56 | 98 | 90-110 | |
| Copper | 100 | 99.606 | 100 | 90-110 | |

**ALS Houston, US** Date: 29-Jun-23

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

Run ID: ICPMS06_440069
Instrument: ICPMS06
Method: SW6020A

| CCV3 | Date: 28-Jun-2023 17:42 | | Seq: 7391291 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Iron | 10000 | 9884.113 | 99 | 90-110 | |
| Lead | 100 | 97.208 | 97 | 90-110 | |
| Magnesium | 10000 | 9770.101 | 98 | 90-110 | |
| Manganese | 100 | 98.955 | 99 | 90-110 | |
| Nickel | 100 | 105.299 | 105 | 90-110 | |
| Potassium | 10000 | 9604.541 | 96 | 90-110 | |
| Selenium | 100 | 100.604 | 101 | 90-110 | |
| Silver | 100 | 97.053 | 97 | 90-110 | |
| Sodium | 10000 | 9872.53 | 99 | 90-110 | |
| Thallium | 100 | 93.416 | 93 | 90-110 | |
| Vanadium | 100 | 96.34 | 96 | 90-110 | |
| Zinc | 100 | 102.425 | 102 | 90-110 | |

| CCV4 | Date: 28-Jun-2023 17:44 | | Seq: 7391292 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Aluminum | 100 | 103.142 | 103 | 90-110 | |
| Antimony | 100 | 102.897 | 103 | 90-110 | |
| Arsenic | 100 | 100.133 | 100 | 90-110 | |
| Barium | 100 | 96.992 | 97 | 90-110 | |
| Beryllium | 100 | 98.648 | 99 | 90-110 | |
| Cadmium | 100 | 95.142 | 95 | 90-110 | |
| Calcium | 10000 | 9725.017 | 97 | 90-110 | |
| Chromium | 100 | 104.122 | 104 | 90-110 | |
| Cobalt | 100 | 98.815 | 99 | 90-110 | |
| Copper | 100 | 100.005 | 100 | 90-110 | |
| Iron | 10000 | 9999.339 | 100 | 90-110 | |
| Lead | 100 | 98.298 | 98 | 90-110 | |
| Magnesium | 10000 | 9705.663 | 97 | 90-110 | |
| Manganese | 100 | 99.873 | 100 | 90-110 | |
| Nickel | 100 | 106.309 | 106 | 90-110 | |
| Potassium | 10000 | 9580.886 | 96 | 90-110 | |
| Selenium | 100 | 103.741 | 104 | 90-110 | |
| Silver | 100 | 96.33 | 96 | 90-110 | |
| Sodium | 10000 | 9845.484 | 99 | 90-110 | |
| Thallium | 100 | 94.922 | 95 | 90-110 | |
| Vanadium | 100 | 95.369 | 95 | 90-110 | |
| Zinc | 100 | 101.183 | 101 | 90-110 | |

| CCV5 | Date: 28-Jun-2023 18:02 | | Seq: 7391301 | CCV | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | **Control Limits** | **Flag** |
| Aluminum | 100 | 109.24 | 109 | 90-110 | |
| Antimony | 100 | 99.796 | 100 | 90-110 | |
| Arsenic | 100 | 99.548 | 100 | 90-110 | |
| Barium | 100 | 100.595 | 101 | 90-110 | |
| Beryllium | 100 | 98.998 | 99 | 90-110 | |
| Cadmium | 100 | 99.142 | 99 | 90-110 | |
| Calcium | 10000 | 9917.441 | 99 | 90-110 | |
| Chromium | 100 | 106.51 | 107 | 90-110 | |
| Cobalt | 100 | 100.134 | 100 | 90-110 | |
| Copper | 100 | 100.599 | 101 | 90-110 | |
| Iron | 10000 | 10068.033 | 101 | 90-110 | |
| Lead | 100 | 99.818 | 100 | 90-110 | |
| Magnesium | 10000 | 10091.116 | 101 | 90-110 | |
| Manganese | 100 | 100.347 | 100 | 90-110 | |
| Nickel | 100 | 106.465 | 106 | 90-110 | |

**ALS Houston, US**

Date: 29-Jun-23

## Form 2 - Initial and Continuing Calibration Verification

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

Run ID: ICPMS06_440069
Instrument: ICPMS06
Method: SW6020A

CCV5 Date: 28-Jun-2023 18:02 Seq: 7391301 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Potassium | 10000 | 9863.557 | 99 | 90-110 | |
| Selenium | 100 | 98.965 | 99 | 90-110 | |
| Silver | 100 | 100.689 | 101 | 90-110 | |
| Sodium | 10000 | 10219.319 | 102 | 90-110 | |
| Thallium | 100 | 97.154 | 97 | 90-110 | |
| Vanadium | 100 | 98.183 | 98 | 90-110 | |
| Zinc | 100 | 102.647 | 103 | 90-110 | |

CCV6 Date: 28-Jun-2023 18:33 Seq: 7391317 CCV Units: ug/L

| Analyte | True | Found | %R | Control Limits | Flag |
|---|---|---|---|---|---|
| Aluminum | 100 | 101.312 | 101 | 90-110 | |
| Antimony | 100 | 98.264 | 98 | 90-110 | |
| Arsenic | 100 | 100.388 | 100 | 90-110 | |
| Barium | 100 | 98.79 | 99 | 90-110 | |
| Beryllium | 100 | 100.64 | 101 | 90-110 | |
| Cadmium | 100 | 99.882 | 100 | 90-110 | |
| Calcium | 10000 | 10104.786 | 101 | 90-110 | |
| Chromium | 100 | 103.423 | 103 | 90-110 | |
| Cobalt | 100 | 102.949 | 103 | 90-110 | |
| Copper | 100 | 103.846 | 104 | 90-110 | |
| Iron | 10000 | 10287.494 | 103 | 90-110 | |
| Lead | 100 | 99.554 | 100 | 90-110 | |
| Magnesium | 10000 | 10252.301 | 103 | 90-110 | |
| Manganese | 100 | 101.9 | 102 | 90-110 | |
| Nickel | 100 | 102.311 | 102 | 90-110 | |
| Potassium | 10000 | 9984.86 | 100 | 90-110 | |
| Selenium | 100 | 101.701 | 102 | 90-110 | |
| Silver | 100 | 99.029 | 99 | 90-110 | |
| Sodium | 10000 | 10363.568 | 104 | 90-110 | |
| Thallium | 100 | 106.806 | 107 | 90-110 | |
| Vanadium | 100 | 101.099 | 101 | 90-110 | |
| Zinc | 100 | 102.453 | 102 | 90-110 | |

**ALS Houston, US**

Date: 29-Jun-23

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

Run ID: HG04_440017
Instrument: HG04
Method: SW7470A

| ICB | Date: 27-Jun-2023 14:24 | | Seq: 7387926 | ICB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB1 | Date: 27-Jun-2023 14:39 | | Seq: 7387929 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB2 | Date: 27-Jun-2023 15:02 | | Seq: 7387941 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB3 | Date: 27-Jun-2023 15:28 | | Seq: 7387953 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB4 | Date: 27-Jun-2023 15:59 | | Seq: 7387958 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB5 | Date: 27-Jun-2023 16:28 | | Seq: 7388077 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB6 | Date: 27-Jun-2023 16:50 | | Seq: 7388086 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB7 | Date: 27-Jun-2023 17:23 | | Seq: 7388409 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB8 | Date: 27-Jun-2023 18:08 | | Seq: 7388421 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB9 | Date: 27-Jun-2023 18:33 | | Seq: 7388433 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB10 | Date: 27-Jun-2023 19:00 | | Seq: 7388445 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB11 | Date: 27-Jun-2023 19:29 | | Seq: 7388457 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| MBLK-196820 | Date: 27-Jun-2023 19:35 | | Seq: 7388460 | MBLK | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

| CCB12 | Date: 27-Jun-2023 20:14 | | Seq: 7388469 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | -0.031 | 0.03 | 0.2 | J | |

| CCB13 | Date: 27-Jun-2023 20:42 | | Seq: 7388481 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Mercury | 0.2 | 0.03 | 0.2 | U | |

**ALS Houston, US** Date: 29-Jun-23

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

Run ID: HG04_440017
Instrument: HG04
Method: SW7470A

CCB14 Date: 27-Jun-2023 21:06 Seq: 7388492 CCB Units: ug/L

| Analyte | Result | MDL | Report Limit | Qual |
|---|---|---|---|---|
| Mercury | 0.2 | 0.03 | 0.2 | U |

**ALS Houston, US** Date: 29-Jun-23

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

Run ID: ICPMS06_440069
Instrument: ICPMS06
Method: SW6020A

| ICB | Date: 28-Jun-2023 11:20 | | Seq: 7389575 | 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-2023 13:39 | | Seq: 7390397 | CCB | 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 | -18.17 | 18 | 200 | J | |
| Selenium | 5 | 1.1 | 5 | U | |
| Silver | 5 | 0.2 | 5 | U | |
| Sodium | 200 | 14 | 200 | U | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | -1.081 | 0.6 | 5 | J | |
| Zinc | 5 | 2 | 5 | U | |

| CCB2 | Date: 28-Jun-2023 16:36 | | Seq: 7391178 | 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 | |

**ALS Houston, US**

Date: 29-Jun-23

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

Run ID: ICPMS06_440069
Instrument: ICPMS06
Method: SW6020A

| CCB2 | Date: 28-Jun-2023 16:36 | | Seq: 7391178 | 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 | -36.22 | 18 | 200 | J | |
| Selenium | 2 | 1.1 | 2 | U | |
| Silver | 2 | 0.2 | 2 | U | |
| Sodium | 189.1 | 14 | 200 | J | |
| Thallium | 0.644 | 0.2 | 2 | J | |
| Vanadium | -0.645 | 0.6 | 5 | J | |
| Zinc | 4 | 2 | 4 | U | |

| MBLK-196608 | Date: 28-Jun-2023 16:37 | | Seq: 7391179 | 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 | 179.7 | 14 | 200 | J | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | 5 | 0.6 | 5 | U | |
| Zinc | 5 | 2 | 5 | U | |

| CCB3 | Date: 28-Jun-2023 16:59 | | Seq: 7391189 | CCB | Units: ug/L |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **MDL** | **Report Limit** | **Qual** | |
| Aluminum | 1.839 | 1.8 | 10 | J | |
| 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 | |

**ALS Houston, US**

Date: 29-Jun-23

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

Run ID: ICPMS06_440069
Instrument: ICPMS06
Method: SW6020A

| CCB3 | Date: 28-Jun-2023 16:59 | | Seq: 7391189 | 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 | -44.44 | 18 | 200 | J | |
| Selenium | 2 | 1.1 | 2 | U | |
| Silver | 2 | 0.2 | 2 | U | |
| Sodium | 233.6 | 14 | 200 | | |
| Thallium | 0.687 | 0.2 | 2 | J | |
| Vanadium | 5 | 0.6 | 5 | U | |
| Zinc | 4 | 2 | 4 | U | |

| CCB4 | Date: 28-Jun-2023 17:22 | | Seq: 7391288 | 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 | 0.423 | 0.4 | 4 | J | |
| 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 | 390.1 | 14 | 200 | | |
| Thallium | 0.659 | 0.2 | 2 | J | |
| Vanadium | 5 | 0.6 | 5 | U | |
| Zinc | 4 | 2 | 4 | U | |

| CCB5 | Date: 28-Jun-2023 18:04 | | Seq: 7391302 | 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: 29-Jun-23

## Form 3 - BLANKS

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

Run ID: ICPMS06_440069
Instrument: ICPMS06
Method: SW6020A

| CCB5 | Date: 28-Jun-2023 18:04 | | Seq: 7391302 | 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 | 220 | 14 | 200 | | |
| Thallium | 0.633 | 0.2 | 2 | J | |
| Vanadium | -0.729 | 0.6 | 5 | J | |
| Zinc | 4 | 2 | 4 | U | |

| CCB6 | Date: 28-Jun-2023 18:34 | | Seq: 7391318 | 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 | 136.1 | 14 | 200 | J | |
| Thallium | 2 | 0.2 | 2 | U | |
| Vanadium | -1.085 | 0.6 | 5 | J | |
| Zinc | 4 | 2 | 4 | U | |

**ALS Houston, US** Date: 29-Jun-23

## Form 4 - ICP Interference Check Sample

**Client:** Bhate Environmental Associates, Inc. Run ID:ICPMS06_440069
**Project:** LHAAP /Site18/24 Instrument:ICPMS06
**WorkOrder:** HS23061096 Method:SW6020A

| ICSA | Date: 28-Jun-2023 11:26 | Seq: 7389615 | ICSA | Units: ug/L |
|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | |
| Aluminum | 100000 | 89070 | 89.1 | |
| Antimony | | 0.197 | 0 | |
| Arsenic | | 0.17 | 0 | |
| Barium | | 0.671 | 0 | |
| Beryllium | | -0.037 | 0 | |
| Cadmium | | 0.377 | 0 | |
| Calcium | 100000 | 95970 | 96.0 | |
| Chromium | | 1.484 | 0 | |
| Cobalt | | 0.643 | 0 | |
| Copper | | 0.383 | 0 | |
| Iron | 100000 | 97460 | 97.5 | |
| Lead | | 0.173 | 0 | |
| Magnesium | 100000 | 95680 | 95.7 | |
| Manganese | | 1.235 | 0 | |
| Nickel | | 0.981 | 0 | |
| Potassium | 100000 | 96310 | 96.3 | |
| Selenium | | -0.138 | 0 | |
| Silver | | 0.107 | 0 | |
| Sodium | 100000 | 96010 | 96.0 | |
| Thallium | | -0.02 | 0 | |
| Vanadium | | -5 | 0 | |
| Zinc | | 3.016 | 0 | |

| ICSAB | Date: 28-Jun-2023 11:28 | Seq: 7389616 | ICSAB | Units: ug/L |
|---|---|---|---|---|
| **Analyte** | **True** | **Found** | **%R** | |
| Aluminum | 100500 | 90330 | 89.9 | |
| Antimony | 100 | 100.9 | 101 | |
| Arsenic | 100 | 100.1 | 100 | |
| Barium | 100 | 102.7 | 103 | |
| Beryllium | 100 | 96.68 | 96.7 | |
| Cadmium | 100 | 100.7 | 101 | |
| Calcium | 110000 | 106800 | 97.1 | |
| Chromium | 100 | 99.4 | 99.4 | |
| Cobalt | 100 | 99.71 | 99.7 | |
| Copper | 100 | 96.94 | 96.9 | |
| Iron | 110000 | 108800 | 98.9 | |
| Lead | 100 | 101.4 | 101 | |
| Magnesium | 110000 | 108000 | 98.2 | |
| Manganese | 100 | 99.54 | 99.5 | |
| Nickel | 100 | 96.92 | 96.9 | |
| Potassium | 110000 | 106900 | 97.2 | |
| Selenium | 100 | 101 | 101 | |
| Silver | 100 | 100.1 | 100 | |
| Sodium | 110000 | 106900 | 97.2 | |
| Thallium | 100 | 98.56 | 98.6 | |
| Vanadium | 100 | 101.4 | 101 | |
| Zinc | 100 | 100.9 | 101 | |

**ALS Houston, US**

Date: 29-Jun-23

## Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

Date Analyzed: 27-Jun-2023 20:07
Date Extracted: 27-Jun-2023 11:00
Units: ug/L

Matrix Spike: HS23060999-02MS
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 | 4.970 | 5.000 | 99.6 | 4.990 | 5.000 | 100 | 82-119 | 0.402 | 20 |

**ALS Houston, US** Date: 29-Jun-23

## Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

Date Analyzed: 28-Jun-2023 16:47
Date Extracted: 22-Jun-2023 14:30
Units: ug/L

Matrix Spike: HS23060722-06MS
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 | 35.28 | 130.4 | 100.0 | 95.1 | 126.4 | 100.0 | 91.2 | 84-117 | 3.08 | 20 |
| Antimony | 5.000 | 48.62 | 50.00 | 97.2 | 47.23 | 50.00 | 94.4 | 85-117 | 2.90 | 20 |
| Arsenic | 0.4660 | 49.58 | 50.00 | 98.2 | 48.82 | 50.00 | 96.7 | 84-116 | 1.54 | 20 |
| Barium | 28.40 | 75.56 | 50.00 | 94.3 | 76.88 | 50.00 | 97.0 | 86-114 | 1.73 | 20 |
| Beryllium | 2.000 | 50.86 | 50.00 | 102 | 49.91 | 50.00 | 99.7 | 83-121 | 1.89 | 20 |
| Cadmium | 2.000 | 45.31 | 50.00 | 90.4 | 47.75 | 50.00 | 95.2 | 87-115 | 5.25 | 20 |
| Calcium | 139100 | 133300 | 5000 | -117 | 132200 | 5000 | -139 | 87-118 | 0.832 | 20 |
| Chromium | 5.369 | 51.11 | 50.00 | 91.5 | 50.08 | 50.00 | 89.4 | 85-116 | 2.03 | 20 |
| Cobalt | 2.226 | 49.19 | 50.00 | 93.9 | 47.74 | 50.00 | 91.0 | 86-115 | 2.98 | 20 |
| Copper | 1.363 | 48.26 | 50.00 | 93.8 | 47.53 | 50.00 | 92.3 | 85-118 | 1.53 | 20 |
| Iron | 149.8 | 4979 | 5000 | 96.6 | 4837 | 5000 | 93.7 | 87-118 | 2.89 | 20 |
| Lead | 5.000 | 46.11 | 50.00 | 92.0 | 46.61 | 50.00 | 93.0 | 88-115 | 1.10 | 20 |
| Magnesium | 68530 | 67950 | 5000 | -11.7 | 66940 | 5000 | -31.8 | 83-118 | 1.49 | 20 |
| Manganese | 369.0 | 391.4 | 50.00 | 44.7 | 382.3 | 50.00 | 26.6 | 87-115 | 2.33 | 20 |
| Nickel | 44.03 | 85.92 | 50.00 | 83.8 | 84.83 | 50.00 | 81.6 | 85-117 | 1.27 | 20 |
| Potassium | 891.4 | 5514 | 5000 | 92.5 | 5402 | 5000 | 90.2 | 87-115 | 2.06 | 20 |
| Selenium | 5.000 | 49.88 | 50.00 | 100 | 47.92 | 50.00 | 96.4 | 80-120 | 4.00 | 20 |
| Silver | 5.000 | 43.65 | 50.00 | 87.4 | 44.25 | 50.00 | 88.6 | 85-116 | 1.38 | 20 |
| Sodium | 371800 | 351000 | 5000 | -417 | 343900 | 5000 | -558 | 85-117 | 2.03 | 20 |
| Thallium | 0.6290 | 41.67 | 50.00 | 82.1 | 42.92 | 50.00 | 84.6 | 82-116 | 2.95 | 20 |
| Vanadium | 2.780 | 50.20 | 50.00 | 94.8 | 49.05 | 50.00 | 92.5 | 86-115 | 2.32 | 20 |
| Zinc | 3.790 | 51.83 | 50.00 | 96.1 | 50.08 | 50.00 | 92.6 | 83-119 | 3.43 | 20 |

**ALS Houston, US**

Date: 29-Jun-23

## Form 5B - Post Digest Sample Recovery

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

Date Analyzed: 28-Jun-2023 16:49
Date Extracted: 22-Jun-2023 14:30
Units: ug/L

Lab Sample ID: HS23060722-06PDS
Client Sample ID:

Analysis Method: SW6020A

| Analyte | Sample Result | PDS Result | Spike Amount | % Rec | % Rec Limits |
|---|---|---|---|---|---|
| Aluminum | 35.28 | 126.7 | 100 | 91 | 80-120 |
| Antimony | 0 | 96.82 | 100 | 97 | 80-120 |
| Arsenic | 0.466 | 97.54 | 100 | 97 | 80-120 |
| Barium | 28.4 | 123.3 | 100 | 95 | 80-120 |
| Beryllium | 0 | 103.3 | 100 | 103 | 80-120 |
| Cadmium | 0 | 93.69 | 100 | 94 | 80-120 |
| Chromium | 5.369 | 98 | 100 | 93 | 80-120 |
| Cobalt | 2.226 | 94.94 | 100 | 93 | 80-120 |
| Copper | 1.363 | 93.94 | 100 | 93 | 80-120 |
| Iron | 149.8 | 9750 | 10000 | 96 | 80-120 |
| Lead | 0 | 94.98 | 100 | 95 | 80-120 |
| Potassium | 891.4 | 10210 | 10000 | 93 | 80-120 |
| Selenium | 0 | 96.54 | 100 | 97 | 80-120 |
| Silver | 0 | 92.88 | 100 | 93 | 80-120 |
| Thallium | 0.629 | 88.24 | 100 | 88 | 80-120 |
| Vanadium | 2.78 | 97.86 | 100 | 95 | 80-120 |
| Zinc | 3.79 | 98.71 | 100 | 95 | 80-120 |
| Calcium | 129100 | 179700 | 50000 | 101 | 80-120 |
| Magnesium | 63390 | 111100 | 50000 | 96 | 80-120 |
| Manganese | 347.3 | 828.8 | 500 | 96 | 80-120 |
| Nickel | 39.66 | 522 | 500 | 97 | 80-120 |
| Sodium | 342400 | 394500 | 50000 | 104 | 80-120 |

**ALS Houston, US**

Date: 29-Jun-23

## Form 7 - Laboratory Control Sample

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

Date Analyzed: 27-Jun-2023 19:56
Date Extracted: 27-Jun-2023 11:00
Units: ug/L

Lab Sample ID: LCS-196820

Analysis Method: SW7470A

| Analyte | Spike Amount | LCS Result | % Rec | % Rec Limits |
|---|---|---|---|---|
| Mercury | 5 | 5.03 | 101 | 82-119 |

**ALS Houston, US** Date: 29-Jun-23

**Form 7 - Laboratory Control Sample**

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

Date Analyzed: 28-Jun-2023 16:39
Date Extracted: 22-Jun-2023 14:30
Units: ug/L

Lab Sample ID: LCS-196608 Analysis Method: SW6020A

| Analyte | Spike Amount | LCS Result | % Rec | % Rec Limits |
|---|---|---|---|---|
| Aluminum | 100 | 102.5 | 102 | 84-117 |
| Antimony | 50 | 47.49 | 95 | 85-117 |
| Arsenic | 50 | 47.48 | 95 | 84-116 |
| Barium | 50 | 45.61 | 91 | 86-114 |
| Beryllium | 50 | 47.48 | 95 | 83-121 |
| Cadmium | 50 | 46.39 | 93 | 87-115 |
| Calcium | 5000 | 4818 | 96 | 87-118 |
| Chromium | 50 | 46.52 | 93 | 85-116 |
| Cobalt | 50 | 46.68 | 93 | 86-115 |
| Copper | 50 | 55.47 | 111 | 85-118 |
| Iron | 5000 | 4746 | 95 | 87-118 |
| Lead | 50 | 46.29 | 93 | 88-115 |
| Magnesium | 5000 | 4964 | 99 | 83-118 |
| Manganese | 50 | 46.64 | 93 | 87-115 |
| Nickel | 50 | 47.5 | 95 | 85-117 |
| Potassium | 5000 | 4778 | 96 | 87-115 |
| Selenium | 50 | 47.32 | 95 | 80-120 |
| Silver | 50 | 46.41 | 93 | 85-116 |
| Sodium | 5000 | 5042 | 101 | 85-117 |
| Vanadium | 50 | 45.28 | 91 | 86-115 |
| Zinc | 50 | 54.19 | 108 | 83-119 |
| Thallium | 50 | 43.15 | 86 | 82-116 |

**ALS Houston, US**

Date: 29-Jun-23

## Form 8 - ICP Serial Dilutions

**Client:** Bhate Environmental Associates, Inc.
**Project:** LHAAP /Site18/24
**WorkOrder:** HS23061096

Date Analyzed: 28-Jun-2023 16:43
Date Extracted: 22-Jun-2023 14:30
Units: ug/L

Lab Sample ID: HS23060722-06SD
Client Sample ID:

Analysis Method: SW6020A

| Analyte | Sample Result | C | SD Result | C | RPD | Q |
|---|---|---|---|---|---|---|
| Aluminum | 35.28 | | 29.23 | J | 17 | |
| Antimony | 0 | U | 0 | U | 0 | |
| Arsenic | 0.466 | J | 0 | U | 0 | |
| Barium | 28.4 | | 28.05 | | 1 | |
| Beryllium | 0 | U | 0 | U | 0 | |
| Cadmium | 0 | U | 0 | U | 0 | |
| Chromium | 5.369 | | 4.374 | J | 19 | |
| Cobalt | 2.226 | J | 1.953 | J | 12 | |
| Copper | 1.363 | J | 0 | U | 0 | |
| Iron | 149.8 | J | 98.3 | J | 34 | |
| Lead | 0 | U | 0 | U | 0 | |
| Potassium | 891.4 | | 578.1 | J | 35 | |
| Selenium | 0 | U | 0 | U | 0 | |
| Silver | 0 | U | 0 | U | 0 | |
| Thallium | 0.629 | J | 0 | U | 0 | |
| Vanadium | 2.78 | J | 18.35 | J | 560 | |
| Zinc | 3.79 | J | 0 | U | 0 | |
| Calcium | 129100 | | 130700 | | 1 | |
| Magnesium | 63390 | | 65320 | | 3 | |
| Manganese | 347.3 | | 349.2 | | 1 | |
| Nickel | 39.66 | | 37.4 | J | 6 | |
| Sodium | 342400 | | 353800 | | 3 | |

**Report Generated By Teledyne Leeman QuickTrace**

**Analyst:** ALSHS.NoUser,

**Worksheet file:** C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\062723AW.wszf

**Creation Date:** 6/27/2023 11:58:24 AM

**Comment:**

# *Results*

| Sample Name | | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Calibration Blank | | | | | STD | 06/27/23 02:07:40 pm | 0.000 | 107 | 22.00 | | |
| | Replicates | 81.2 | 129.2 | 92.8 | 124.2 | | | | | | |
| Standard #1 (0.2 ppb) | | | | | STD | 06/27/23 02:09:22 pm | 0.200 | 1446 | 1.35 | -4.07% | |
| | Replicates | 1434.9 | 1428.1 | 1449.5 | 1472.3 | | | | | | |
| Standard #2 (0.5 ppb) | | | | | STD | 06/27/23 02:11:05 pm | 0.500 | 3675 | 1.35 | 4.37% | |
| | Replicates | 3612.5 | 3661.0 | 3725.4 | 3702.2 | | | | | | |
| Standard #3 (2.0 ppb) | | | | | STD | 06/27/23 02:12:47 pm | 2.000 | 13819 | 0.86 | 1.18% | |
| | Replicates | 13675.6 | 13768.5 | 13904.3 | 13929.7 | | | | | | |
| Standard #4 (5.0 ppb) | | | | | STD | 06/27/23 02:14:30 pm | 5.000 | 34276 | 0.73 | 1.04% | |
| | Replicates | 33949.4 | 34218.3 | 34426.5 | 34511.1 | | | | | | |
| Standard #5 (10.0 ppb) | | | | | STD | 06/27/23 02:18:32 pm | 10.000 | 67168 | 0.74 | -0.78% | |
| | Replicates | 66592.8 | 66988.1 | 67337.9 | 67754.8 | | | | | | |

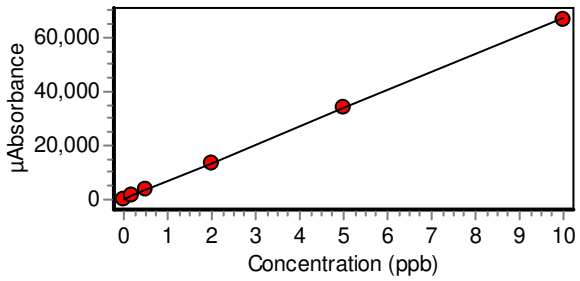
Calibration

Equation: Abs = 6754.624x + 150.276

R2: 0.99987 RSE: 3.60%

SEE: 337.5478

Flags:




| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ICCV | | | | | UNK | 06/27/23 02:20:54 pm | 5.010 | 34001 | 1.11 | | |
| | Replicates | 33556.4 | 33846.3 | 34199.5 | 34402.7 | | | | | | |
| ICV | | | | | UNK | 06/27/23 02:22:35 pm | 4.630 | 31398 | 1.02 | | |
| | Replicates | 31008.1 | 31296.3 | 31530.5 | 31755.3 | | | | | | |
| ICB | | | | | UNK | 06/27/23 02:24:17 pm | -0.016 | 45 | 21.90 | | |
| | Replicates | 54.6 | 14.2 | 68.4 | 43.4 | | | | | | |
| CRA | | | | | UNK | 06/27/23 02:25:59 pm | 0.196 | 1475 | 0.99 | | |
| | Replicates | 1463.9 | 1463.9 | 1486.9 | 1486.3 | | | | | | |
| CCV | | | | | UNK | 06/27/23 02:38:01 pm | 4.930 | 33479 | 0.65 | | |
| | Replicates | 33214.5 | 33396.0 | 33615.4 | 33690.0 | | | | | | |
| CCB | | | | | UNK | 06/27/23 02:39:44 pm | -0.014 | 53 | 28.58 | | |
| | Replicates | 55.4 | 14.1 | 63.7 | 79.1 | | | | | | |
| MBLK-196797 | | | | | UNK | 06/27/23 02:41:26 pm | -0.010 | 86 | 29.37 | | |
| | Replicates | 103.7 | 81.3 | 61.3 | 97.3 | | | | | | |

| Sample Name | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|
| LCS-196797 | | | | UNK | 06/27/23 02:45:25 pm | 5.110 | 34643 | 0.64 | | |
| | Replicates | 34342.3 | 34624.4 | 34765.8 | 34840.6 | | | | | |
| MBLKT1-196582 | | | | UNK | 06/27/23 02:47:07 pm | -0.013 | 59 | 15.59 | | |
| | Replicates | 67.9 | 38.5 | 62.3 | 68.7 | | | | | |
| MBLKT2-196457 | | | | UNK | 06/27/23 02:48:50 pm | -0.008 | 95 | 27.60 | | |
| | Replicates | 88.1 | 116.3 | 81.1 | 95.1 | | | | | |
| MBLKT3-196637 | | | | UNK | 06/27/23 02:50:32 pm | -0.011 | 78 | 22.87 | | |
| | Replicates | 56.2 | 96.4 | 81.8 | 76.0 | | | | | |
| MBLKT4-196630 | | | | UNK | 06/27/23 02:52:15 pm | -0.007 | 105 | 11.92 | | |
| | Replicates | 98.0 | 108.8 | 104.8 | 109.8 | | | | | |
| MBLKT5-195281 | | | | UNK | 06/27/23 02:53:58 pm | -0.014 | 56 | 11.64 | | |
| | Replicates | 66.0 | 50.3 | 63.7 | 42.9 | | | | | |
| HS23060521-01 | | | | UNK | 06/27/23 02:55:41 pm | 0.026 | 324 | 5.20 | | |
| | Replicates | 311.0 | 328.8 | 327.2 | 330.6 | | | | | |
| HS23060521-02 | | | | UNK | 06/27/23 02:57:22 pm | -0.006 | 111 | 28.98 | | |
| | Replicates | 124.1 | 104.7 | 117.1 | 99.5 | | | | | |
| HS23060988-01 | | | | UNK | 06/27/23 02:59:04 pm | -0.006 | 106 | 50.52 | | |
| | Replicates | 98.4 | 137.4 | 85.4 | 104.8 | | | | | |
| CCV | | | | UNK | 06/27/23 03:01:09 pm | 5.050 | 34266 | 0.48 | | |
| | Replicates | 34035.0 | 34271.6 | 34375.6 | 34383.0 | | | | | |
| CCB | | | | UNK | 06/27/23 03:02:53 pm | -0.017 | 35 | 19.62 | | |
| | Replicates | 29.9 | 43.9 | 59.1 | 5.7 | | | | | |
| HS23060988-01MS | | | | UNK | 06/27/23 03:06:35 pm | 5.410 | 36692 | 3.21 | | |
| | Replicates | 37546.2 | 37391.4 | 36835.6 | 34995.8 | | | | | |
| HS23060988-01MSD | | | | UNK | 06/27/23 03:11:19 pm | 5.110 | 34666 | 0.58 | | |
| | Replicates | 34902.2 | 34747.7 | 34578.1 | 34437.7 | | | | | |
| HS23060988-02 | | | | UNK | 06/27/23 03:13:01 pm | -0.015 | 50 | 14.15 | | |
| | Replicates | 44.2 | 44.7 | 71.3 | 40.7 | | | | | |
| HS23061078-01 | | | | UNK | 06/27/23 03:14:43 pm | -0.009 | 91 | 15.05 | | |
| | Replicates | 90.4 | 82.5 | 103.5 | 87.9 | | | | | |
| HS23061078-02 | | | | UNK | 06/27/23 03:16:25 pm | -0.004 | 125 | 65.66 | | |
| | Replicates | 132.1 | 107.3 | 144.5 | 115.5 | | | | | |
| HS23061078-03 | | | | UNK | 06/27/23 03:18:08 pm | -0.005 | 116 | 97.83 | | |
| | Replicates | 125.7 | 138.4 | 67.4 | 134.2 | | | | | |
| HS23061358-01 | | | | UNK | 06/27/23 03:19:50 pm | 0.000 | 152 | 078.44 | | |
| | Replicates | 161.9 | 151.9 | 167.9 | 126.3 | | | | | |
| HS23061399-01 | | | | UNK | 06/27/23 03:21:33 pm | -0.004 | 121 | 96.29 | | |
| | Replicates | 86.6 | 143.7 | 111.1 | 144.1 | | | | | |

| Sample Name | | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HS23061443-01 | | | | | UNK | 06/27/23 03:23:16 pm | -0.005 | 118 | 24.52 | | |
| | Replicates | 114.1 | 109.7 | 119.7 | 128.1 | | | | | | |
| HS23061449-01 | | | | | UNK | 06/27/23 03:24:59 pm | -0.019 | 21 | 15.44 | | |
| | Replicates | 18.4 | 38.1 | 32.7 | -6.7 | | | | | | |
| CCV | | | | | UNK | 06/27/23 03:26:42 pm | 5.010 | 33986 | 0.82 | | |
| | Replicates | 33618.5 | 33937.5 | 34123.5 | 34264.1 | | | | | | |
| CCB | | | | | UNK | 06/27/23 03:28:26 pm | -0.014 | 58 | 18.22 | | |
| | Replicates | 78.1 | 56.9 | 37.5 | 61.5 | | | | | | |
| HS23061472-01 | | | | | UNK | 06/27/23 03:32:10 pm | -0.001 | 146 | 295.75 | | |
| | Replicates | 150.2 | 131.8 | 159.0 | 144.6 | | | | | | |
| HS23061476-01 | | | | | UNK | 06/27/23 03:33:51 pm | -0.017 | 35 | 5.94 | | |
| | Replicates | 29.1 | 30.7 | 44.1 | 37.1 | | | | | | |
| HS23061535-01 | | | | | UNK | 06/27/23 03:35:33 pm | -0.006 | 107 | 44.09 | | |
| | Replicates | 131.9 | 97.1 | 110.1 | 87.5 | | | | | | |
| MBLK-196806 | | | | | UNK | 06/27/23 03:37:15 pm | -0.015 | 48 | 27.68 | | |
| | Replicates | 10.5 | 55.6 | 78.8 | 46.0 | | | | | | |
| LCS-196806 | | | | | UNK | 06/27/23 03:41:25 pm | 4.740 | 32150 | 1.59 | | |
| | Replicates | 31900.6 | 31901.0 | 31886.4 | 32913.8 | | | | | | |
| MBLKF1-196696 | | | | | UNK | 06/27/23 03:43:07 pm | -0.022 | 0 | 10.95 | | |
| | Replicates | 7.1 | -20.8 | -5.6 | 17.4 | | | | | | |
| HS23060456-12 | | | | | UNK | 06/27/23 03:44:49 pm | -0.013 | 62 | 16.89 | | |
| | Replicates | 50.1 | 54.3 | 83.5 | 58.5 | | | | | | |
| HS23060797-10 | | | | | UNK | 06/27/23 03:46:32 pm | -0.009 | 93 | 43.89 | | |
| | Replicates | 101.3 | 55.0 | 108.4 | 106.0 | | | | | | |
| HS23060879-01 | | | | | UNK | 06/27/23 03:48:14 pm | -0.013 | 65 | 25.08 | | |
| | Replicates | 53.8 | 64.0 | 95.4 | 47.2 | | | | | | |
| HS23060879-02 | | | | | UNK | 06/27/23 03:49:57 pm | -0.003 | 131 | 120.33 | | |
| | Replicates | 131.9 | 148.9 | 98.3 | 145.3 | | | | | | |
| CCV | | | | | UNK | 06/27/23 03:57:12 pm | 5.080 | 34478 | 0.94 | | |
| | Replicates | 34087.5 | 34363.3 | 34631.5 | 34829.7 | | | | | | |
| CCB | | | | | UNK | 06/27/23 03:59:15 pm | -0.017 | 39 | 12.29 | | |
| | Replicates | 20.3 | 53.2 | 42.2 | 40.0 | | | | | | |
| HS23060879-03 | | | | | UNK | 06/27/23 04:00:58 pm | -0.004 | 121 | 45.35 | | |
| | Replicates | 127.5 | 108.4 | 136.6 | 112.0 | | | | | | |
| HS23060879-04 | | | | | UNK | 06/27/23 04:02:41 pm | -0.003 | 130 | 22.17 | | |
| | Replicates | 133.4 | 122.9 | 131.7 | 130.1 | | | | | | |
| HS23060879-04MS | | | | | UNK | 06/27/23 04:08:27 pm | 5.520 | 37467 | 0.34 | | |
| | Replicates | 37519.5 | 37552.4 | 37519.2 | 37275.6 | | | | | | |

| Sample Name | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|
| HS23060879-04MSD | | | UNK | 06/27/23 04:10:09 pm | 5.180 | 35126 | 0.67 | | |
| Replicates | 35411.7 | 35201.7 | 35023.1 | 34867.9 | | | | | |
| HS23060925-01 | | | UNK | 06/27/23 04:11:51 pm | -0.018 | 26 | 28.27 | | |
| Replicates | 52.7 | 59.2 | 6.2 | -12.4 | | | | | |
| HS23060925-02 | | | UNK | 06/27/23 04:13:33 pm | -0.006 | 107 | 63.02 | | |
| Replicates | 79.8 | 94.6 | 142.8 | 112.2 | | | | | |
| HS23060925-03 | | | UNK | 06/27/23 04:15:15 pm | -0.005 | 120 | 64.25 | | |
| Replicates | 132.9 | 111.7 | 95.7 | 138.3 | | | | | |
| HS23061000-01 | | | UNK | 06/27/23 04:16:57 pm | -0.005 | 114 | 56.69 | | |
| Replicates | 84.9 | 127.4 | 115.2 | 129.2 | | | | | |
| HS23061000-02 | | | UNK | 06/27/23 04:18:39 pm | -0.015 | 47 | 18.20 | | |
| Replicates | 32.9 | 28.3 | 59.9 | 65.7 | | | | | |
| HS23061000-03 | | | UNK | 06/27/23 04:20:21 pm | 0.045 | 457 | 1.44 | | |
| Replicates | 451.2 | 455.3 | 461.7 | 458.1 | | | | | |
| CCV | | | UNK | 06/27/23 04:26:30 pm | 5.160 | 34991 | 0.42 | | |
| Replicates | 34816.1 | 34931.9 | 35075.7 | 35142.1 | | | | | |
| CCB | | | UNK | 06/27/23 04:28:14 pm | -0.018 | 28 | 19.13 | | |
| Replicates | 42.0 | -2.4 | 50.2 | 23.8 | | | | | |
| HS23061515-01 | | | UNK | 06/27/23 04:31:14 pm | 0.008 | 203 | 19.83 | | |
| Replicates | 201.5 | 193.8 | 218.2 | 199.4 | | | | | |
| HS23061515-02 | | | UNK | 06/27/23 04:32:57 pm | 0.022 | 298 | 8.72 | | |
| Replicates | 299.9 | 284.4 | 314.8 | 292.8 | | | | | |
| HS23061515-03 | | | UNK | 06/27/23 04:34:40 pm | -0.005 | 115 | 49.25 | | |
| Replicates | 118.8 | 113.2 | 93.2 | 135.2 | | | | | |
| HS23061515-04 | | | UNK | 06/27/23 04:36:23 pm | -0.020 | 16 | 13.01 | | |
| Replicates | 18.7 | 38.6 | -3.0 | 10.0 | | | | | |
| HS23061515-05 | | | UNK | 06/27/23 04:38:05 pm | -0.014 | 58 | 22.15 | | |
| Replicates | 80.0 | 61.5 | 60.5 | 30.7 | | | | | |
| HS23061515-06 | | | UNK | 06/27/23 04:39:47 pm | -0.009 | 90 | 44.67 | | |
| Replicates | 113.3 | 113.1 | 61.9 | 73.1 | | | | | |
| HS23061601-16 | | | UNK | 06/27/23 04:41:29 pm | -0.007 | 102 | 38.14 | | |
| Replicates | 117.8 | 78.1 | 97.5 | 115.1 | | | | | |
| MBLK-196816 | | | UNK | 06/27/23 04:43:11 pm | -0.015 | 46 | 23.72 | | |
| Replicates | 57.4 | 55.3 | 61.7 | 8.9 | | | | | |
| LCS-196816 | | | UNK | 06/27/23 04:44:53 pm | 5.400 | 36637 | 3.06 | | |
| Replicates | 35309.7 | 36141.2 | 37728.2 | 37369.8 | | | | | |
| MBLKF1-196429 | | | UNK | 06/27/23 04:46:35 pm | -0.011 | 76 | 46.98 | | |
| Replicates | 78.0 | 45.4 | 56.0 | 124.2 | | | | | |

| Sample Name | | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CCV | | | | | UNK | 06/27/23 04:49:01 pm | 5.170 | 35073 | 0.40 | | |
| | Replicates | 34874.8 | 35076.9 | 35167.3 | 35171.7 | | | | | | |
| CCB | | | | | UNK | 06/27/23 04:50:45 pm | -0.019 | 21 | 8.85 | | |
| | Replicates | 26.1 | 24.1 | 29.1 | 3.9 | | | | | | |
| HS23060797-10 | | | | | UNK | 06/27/23 04:52:27 pm | -0.002 | 137 | 178.58 | | |
| | Replicates | 140.8 | 168.7 | 111.5 | 125.1 | | | | | | |
| HS23060925-01 | | | | | UNK | 06/27/23 04:54:09 pm | -0.011 | 78 | 37.31 | | |
| | Replicates | 103.1 | 98.0 | 61.4 | 48.0 | | | | | | |
| HS23060925-02 | | | | | UNK | 06/27/23 04:55:52 pm | -0.008 | 93 | 40.05 | | |
| | Replicates | 104.2 | 106.8 | 59.0 | 102.8 | | | | | | |
| HS23060925-03 | | | | | UNK | 06/27/23 04:57:35 pm | -0.015 | 46 | 7.84 | | |
| | Replicates | 38.3 | 41.2 | 56.2 | 49.6 | | | | | | |
| HS23060937-11 | | | | | UNK | 06/27/23 04:59:17 pm | -0.009 | 91 | 40.20 | | |
| | Replicates | 98.9 | 102.4 | 55.2 | 106.6 | | | | | | |
| HS23060937-13 | | | | | UNK | 06/27/23 05:01:00 pm | -0.011 | 77 | 51.39 | | |
| | Replicates | 38.0 | 95.7 | 120.3 | 55.5 | | | | | | |
| HS23061161-01 | | | | | UNK | 06/27/23 05:02:42 pm | -0.014 | 53 | 26.04 | | |
| | Replicates | 52.4 | 68.1 | 17.3 | 73.7 | | | | | | |
| HS23061161-02 | | | | | UNK | 06/27/23 05:04:25 pm | -0.005 | 120 | 99.13 | | |
| | Replicates | 101.2 | 137.1 | 87.9 | 152.7 | | | | | | |
| HS23061161-03 | | | | | UNK | 06/27/23 05:06:07 pm | -0.005 | 114 | 85.23 | | |
| | Replicates | 135.9 | 126.3 | 67.1 | 124.7 | | | | | | |
| HS23061161-03MS | | | | | UNK | 06/27/23 05:16:53 pm | 4.450 | 30231 | 0.42 | | |
| | Replicates | 30270.4 | 30084.5 | 30186.5 | 30382.1 | | | | | | |
| CCV | | | | | UNK | 06/27/23 05:22:10 pm | 4.850 | 32899 | 1.11 | | |
| | Replicates | 32452.6 | 32784.7 | 33068.3 | 33290.3 | | | | | | |
| CCB | | | | | UNK | 06/27/23 05:23:54 pm | -0.015 | 50 | 20.79 | | |
| | Replicates | 58.6 | 44.1 | 24.5 | 73.3 | | | | | | |
| HS23061161-03MSD | | | | | UNK | 06/27/23 05:25:36 pm | 4.910 | 33320 | 0.25 | | |
| | Replicates | 33202.4 | 33333.9 | 33396.5 | 33346.9 | | | | | | |
| HS23061161-04 | | | | | UNK | 06/27/23 05:27:19 pm | -0.013 | 64 | 18.27 | | |
| | Replicates | 82.2 | 54.2 | 70.6 | 47.2 | | | | | | |
| MBLK-196819 | | | | | UNK | 06/27/23 05:29:01 pm | -0.017 | 35 | 8.43 | | |
| | Replicates | 33.2 | 22.2 | 41.2 | 43.8 | | | | | | |
| LCS-196819 | | | | | UNK | 06/27/23 05:38:23 pm | 4.580 | 31083 | 0.27 | | |
| | Replicates | 30981.7 | 31057.5 | 31110.9 | 31180.9 | | | | | | |
| HS23061307-01 | | | | | UNK | 06/27/23 05:40:06 pm | -0.008 | 96 | 10.20 | | |
| | Replicates | 100.2 | 94.3 | 100.3 | 88.7 | | | | | | |

| Sample Name | | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HS23061307-01MS | | | | | UNK | 06/27/23 05:44:10 pm | 5.110 | 34678 | 0.29 | | |
| | Replicates | 34542.7 | 34665.8 | 34721.6 | 34781.4 | | | | | | |
| HS23061307-01MSD | | | | | UNK | 06/27/23 05:45:53 pm | 4.460 | 30273 | 1.07 | | |
| | Replicates | 29968.9 | 30081.5 | 30343.1 | 30697.1 | | | | | | |
| HS23061445-01 | | | | | UNK | 06/27/23 05:47:36 pm | -0.021 | 6 | 9.58 | | |
| | Replicates | 3.6 | 24.7 | -8.7 | 4.5 | | | | | | |
| HS23061523-01 | | | | | UNK | 06/27/23 05:49:18 pm | -0.007 | 106 | 42.50 | | |
| | Replicates | 108.9 | 82.8 | 128.4 | 105.0 | | | | | | |
| HS23061523-02 | | | | | UNK | 06/27/23 05:51:00 pm | -0.004 | 124 | 89.89 | | |
| | Replicates | 154.1 | 122.8 | 96.8 | 123.2 | | | | | | |
| CCV | | | | | UNK | 06/27/23 06:06:29 pm | 5.020 | 34091 | 1.03 | | |
| | Replicates | 33665.0 | 33979.0 | 34236.8 | 34481.2 | | | | | | |
| CCB | | | | | UNK | 06/27/23 06:08:13 pm | -0.018 | 30 | 19.03 | | |
| | Replicates | 37.1 | 54.3 | -0.3 | 30.7 | | | | | | |
| HS23061523-03 | | | | | UNK | 06/27/23 06:09:56 pm | -0.006 | 111 | 89.65 | | |
| | Replicates | 70.6 | 104.7 | 111.1 | 156.7 | | | | | | |
| HS23061548-01 | | | | | UNK | 06/27/23 06:11:39 pm | -0.006 | 112 | 39.46 | | |
| | Replicates | 102.0 | 133.6 | 101.8 | 112.0 | | | | | | |
| HS23061575-01 | | | | | UNK | 06/27/23 06:13:21 pm | -0.019 | 22 | 10.51 | | |
| | Replicates | 30.4 | 25.5 | 30.9 | 2.5 | | | | | | |
| HS23061586-01 | | | | | UNK | 06/27/23 06:15:03 pm | -0.008 | 96 | 48.59 | | |
| | Replicates | 81.4 | 119.1 | 65.7 | 116.9 | | | | | | |
| HS23061651-01 | | | | | UNK | 06/27/23 06:16:46 pm | -0.003 | 129 | 162.93 | | |
| | Replicates | 105.1 | 102.7 | 128.9 | 178.3 | | | | | | |
| HS23061651-02 | | | | | UNK | 06/27/23 06:18:28 pm | -0.006 | 112 | 67.82 | | |
| | Replicates | 128.4 | 96.6 | 139.0 | 84.0 | | | | | | |
| HS23061657-01 | | | | | UNK | 06/27/23 06:20:10 pm | 0.002 | 167 | 52.03 | | |
| | Replicates | 173.4 | 175.4 | 158.8 | 160.2 | | | | | | |
| HS23061659-01 | | | | | UNK | 06/27/23 06:21:53 pm | -0.010 | 85 | 19.75 | | |
| | Replicates | 83.1 | 67.9 | 96.1 | 93.7 | | | | | | |
| HS23061662-01 | | | | | UNK | 06/27/23 06:23:36 pm | -0.006 | 107 | 13.88 | | |
| | Replicates | 115.3 | 105.8 | 106.4 | 101.0 | | | | | | |
| HS23061664-01 | | | | | UNK | 06/27/23 06:25:19 pm | -0.004 | 126 | 106.54 | | |
| | Replicates | 119.2 | 144.6 | 147.8 | 92.2 | | | | | | |
| CCV | | | | | UNK | 06/27/23 06:31:25 pm | 4.970 | 33695 | 0.89 | | |
| | Replicates | 33312.6 | 33616.7 | 33849.1 | 34000.1 | | | | | | |
| CCB | | | | | UNK | 06/27/23 06:33:09 pm | -0.023 | -3 | 8.40 | | |
| | Replicates | -5.7 | -2.2 | 12.8 | -18.6 | | | | | | |

| Sample Name | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|
| MBLK-196821 | | | | UNK | 06/27/23 06:36:15 pm | -0.017 | 36 | 15.90 | | |
| Replicates | 28.2 | 21.9 | 32.5 | 62.7 | | | | | | |
| LCS-196821 | | | | UNK | 06/27/23 06:37:57 pm | 5.480 | 37162 | 0.78 | | |
| Replicates | 37152.8 | 37346.0 | 37389.0 | 36759.6 | | | | | | |
| HS23060915-01 | | | | UNK | 06/27/23 06:39:40 pm | -0.011 | 75 | 15.03 | | |
| Replicates | 79.5 | 69.1 | 62.1 | 87.9 | | | | | | |
| HS23060915-01MS | | | | UNK | 06/27/23 06:41:23 pm | 4.970 | 33738 | 0.76 | | |
| Replicates | 33388.0 | 33715.8 | 33877.6 | 33970.8 | | | | | | |
| HS23060915-01MS | | | | UNK | 06/27/23 06:43:05 pm | 4.920 | 33415 | 1.90 | | |
| Replicates | 33652.9 | 33822.1 | 33712.1 | 32473.9 | | | | | | |
| HS23060915-02 | | | | UNK | 06/27/23 06:44:48 pm | -0.013 | 64 | 12.79 | | |
| Replicates | 68.8 | 54.0 | 54.6 | 76.6 | | | | | | |
| HS23060915-03 | | | | UNK | 06/27/23 06:46:30 pm | -0.015 | 47 | 16.51 | | |
| Replicates | 33.5 | 32.8 | 68.2 | 53.4 | | | | | | |
| HS23060915-04 | | | | UNK | 06/27/23 06:48:13 pm | -0.003 | 127 | 241.68 | | |
| Replicates | 65.9 | 99.1 | 147.9 | 194.9 | | | | | | |
| HS23060915-05 | | | | UNK | 06/27/23 06:49:56 pm | -0.012 | 70 | 11.24 | | |
| Replicates | 68.0 | 83.8 | 65.0 | 65.2 | | | | | | |
| HS23060915-06 | | | | UNK | 06/27/23 06:51:39 pm | -0.013 | 61 | 41.54 | | |
| Replicates | 49.1 | 110.5 | 21.9 | 62.7 | | | | | | |
| CCV | | | | UNK | 06/27/23 06:59:03 pm | 5.080 | 34433 | 0.72 | | |
| Replicates | 34117.4 | 34377.1 | 34538.7 | 34697.5 | | | | | | |
| CCB | | | | UNK | 06/27/23 07:00:47 pm | -0.011 | 73 | 36.73 | | |
| Replicates | 93.3 | 74.0 | 32.6 | 92.2 | | | | | | |
| HS23060915-07 | | | | UNK | 06/27/23 07:05:55 pm | -0.008 | 93 | 20.50 | | |
| Replicates | 78.6 | 88.3 | 100.1 | 104.7 | | | | | | |
| HS23060915-08 | | | | UNK | 06/27/23 07:07:38 pm | -0.010 | 84 | 21.93 | | |
| Replicates | 83.5 | 74.4 | 74.8 | 105.2 | | | | | | |
| HS23060915-09 | | | | UNK | 06/27/23 07:09:21 pm | -0.006 | 111 | 23.90 | | |
| Replicates | 113.9 | 121.4 | 110.8 | 99.0 | | | | | | |
| HS23060915-10 | | | | UNK | 06/27/23 07:11:03 pm | 0.029 | 347 | 6.32 | | |
| Replicates | 355.2 | 338.5 | 333.9 | 359.3 | | | | | | |
| HS23060915-12 | | | | UNK | 06/27/23 07:12:46 pm | -0.010 | 85 | 11.47 | | |
| Replicates | 91.7 | 84.7 | 74.9 | 89.5 | | | | | | |
| HS23060937-11 | | | | UNK | 06/27/23 07:14:29 pm | 0.004 | 176 | 66.32 | | |
| Replicates | 151.1 | 189.7 | 180.5 | 182.5 | | | | | | |
| HS23060937-13 | | | | UNK | 06/27/23 07:16:11 pm | -0.020 | 18 | 9.93 | | |
| Replicates | 33.3 | 18.9 | 1.1 | 17.1 | | | | | | |

| Sample Name | | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HS23061088-01 | | | | | UNK | 06/27/23 07:17:54 pm | 0.017 | 262 | 20.18 | | |
| | Replicates | 247.9 | 242.9 | 264.1 | 292.9 | | | | | | |
| HS23061088-02 | | | | | UNK | 06/27/23 07:19:36 pm | -0.008 | 97 | 31.81 | | |
| | Replicates | 92.4 | 92.5 | 121.7 | 82.9 | | | | | | |
| HS23061088-03 | | | | | UNK | 06/27/23 07:21:19 pm | -0.003 | 129 | 42.02 | | |
| | Replicates | 136.6 | 134.4 | 126.6 | 116.4 | | | | | | |
| CCV | | | | | UNK | 06/27/23 07:27:48 pm | 5.010 | 33993 | 0.70 | | |
| | Replicates | 33695.8 | 33917.4 | 34123.0 | 34236.8 | | | | | | |
| CCB | | | | | UNK | 06/27/23 07:29:32 pm | -0.010 | 84 | 13.09 | | |
| | Replicates | 76.8 | 91.0 | 91.8 | 76.0 | | | | | | |
| HS23061088-04 | | | | | UNK | 06/27/23 07:32:25 pm | -0.003 | 129 | 93.24 | | |
| | Replicates | 99.4 | 133.4 | 135.2 | 146.2 | | | | | | |
| HS23061088-05 | | | | | UNK | 06/27/23 07:34:08 pm | 0.004 | 178 | 49.26 | | |
| | Replicates | 171.0 | 183.8 | 193.4 | 162.8 | | | | | | |
| MBLK-196820 | | | | | UNK | 06/27/23 07:35:51 pm | -0.012 | 72 | 23.31 | | |
| | Replicates | 65.3 | 76.1 | 94.9 | 51.7 | | | | | | |
| LCS-196820 | | | | | UNK | 06/27/23 07:56:51 pm | 5.030 | 34138 | 1.08 | | |
| | Replicates | 33665.0 | 34057.4 | 34315.8 | 34514.0 | | | | | | |
| HS23060999-01 | | | | | UNK | 06/27/23 07:58:34 pm | -0.016 | 40 | 17.75 | | |
| | Replicates | 28.3 | 68.4 | 39.2 | 26.0 | | | | | | |
| HS23060999-02 | | | | | UNK | 06/27/23 08:00:17 pm | -0.011 | 77 | 13.21 | | |
| | Replicates | 88.3 | 65.7 | 72.9 | 80.3 | | | | | | |
| HS23060999-02MS | | | | | UNK | 06/27/23 08:03:59 pm | 4.970 | 33707 | 0.55 | | |
| | Replicates | 33475.3 | 33681.1 | 33745.1 | 33925.3 | | | | | | |
| HS23060999-02MSD | | | | | UNK | 06/27/23 08:07:37 pm | 4.990 | 33867 | 0.53 | | |
| | Replicates | 33613.0 | 33876.4 | 33962.0 | 34015.8 | | | | | | |
| HS23060999-04 | | | | | UNK | 06/27/23 08:09:19 pm | -0.007 | 105 | 43.92 | | |
| | Replicates | 76.2 | 112.0 | 110.2 | 121.6 | | | | | | |
| HS23060999-05 | | | | | UNK | 06/27/23 08:11:02 pm | -0.013 | 64 | 19.91 | | |
| | Replicates | 45.9 | 62.7 | 61.9 | 87.3 | | | | | | |
| CCV | | | | | UNK | 06/27/23 08:12:46 pm | 5.010 | 34020 | 0.82 | | |
| | Replicates | 33648.3 | 33991.3 | 34142.7 | 34299.5 | | | | | | |
| CCB | | | | | UNK | 06/27/23 08:14:30 pm | -0.031 | -60 | 7.72 | | |
| | Replicates | -67.1 | -42.1 | -79.3 | -52.9 | | | | | | |
| HS23060999-06 | | | | | UNK | 06/27/23 08:20:15 pm | 0.002 | 162 | 43.72 | | |
| | Replicates | 158.7 | 168.4 | 161.6 | 157.4 | | | | | | |
| HS23060999-07 | | | | | UNK | 06/27/23 08:21:58 pm | -0.005 | 120 | 76.04 | | |
| | Replicates | 149.1 | 95.7 | 126.1 | 108.1 | | | | | | |

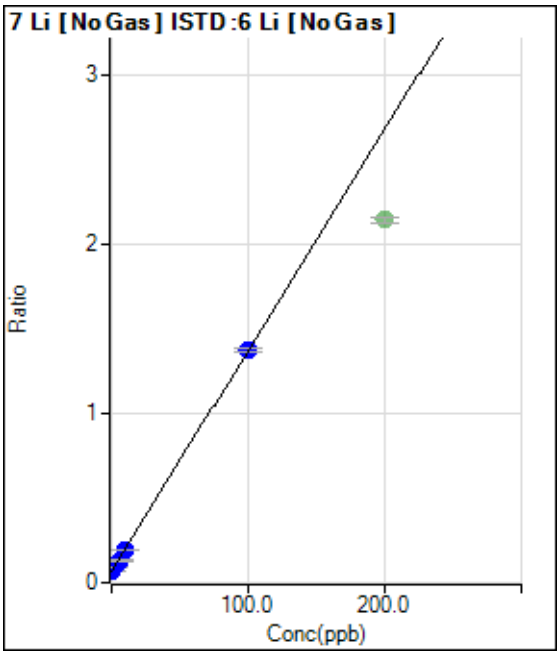
| Sample Name | | | | Type | Date/Time | Conc (ppb) | µAbs | %RSD | Residual | Flags |
|---|---|---|---|---|---|---|---|---|---|---|
| HS23061096-01 | | | | UNK | 06/27/23 08:23:41 pm | -0.007 | 103 | 57.59 | | |
| Replicates | 106.7 | 97.6 | 71.6 | 137.2 | | | | | | |
| HS23061096-02 | | | | UNK | 06/27/23 08:25:23 pm | -0.006 | 111 | 62.41 | | |
| Replicates | 112.4 | 144.1 | 86.3 | 101.3 | | | | | | |
| HS23061096-03 | | | | UNK | 06/27/23 08:27:06 pm | -0.006 | 107 | 46.86 | | |
| Replicates | 96.8 | 112.1 | 86.7 | 133.1 | | | | | | |
| HS23061096-05 | | | | UNK | 06/27/23 08:28:49 pm | -0.014 | 56 | 14.07 | | |
| Replicates | 49.2 | 63.0 | 41.0 | 70.4 | | | | | | |
| HS23061096-06 | | | | UNK | 06/27/23 08:30:32 pm | -0.016 | 41 | 12.56 | | |
| Replicates | 26.7 | 48.3 | 33.3 | 56.7 | | | | | | |
| HS23061096-09 | | | | UNK | 06/27/23 08:32:15 pm | -0.004 | 126 | 105.87 | | |
| Replicates | 125.1 | 139.2 | 149.4 | 90.8 | | | | | | |
| MBLKT6-196775 | | | | UNK | 06/27/23 08:33:58 pm | -0.009 | 88 | 18.87 | | |
| Replicates | 95.4 | 76.9 | 100.1 | 78.3 | | | | | | |
| HS23061485-01 | | | | UNK | 06/27/23 08:35:41 pm | -0.008 | 94 | 23.46 | | |
| Replicates | 90.3 | 107.4 | 101.8 | 77.8 | | | | | | |
| CCV | | | | UNK | 06/27/23 08:40:51 pm | 4.520 | 30649 | 1.84 | | |
| Replicates | 29807.0 | 30882.0 | 30933.2 | 30973.8 | | | | | | |
| CCB | | | | UNK | 06/27/23 08:42:34 pm | -0.017 | 38 | 18.93 | | |
| Replicates | 57.2 | 55.5 | 16.9 | 22.7 | | | | | | |
| HS23061615-01 | | | | UNK | 06/27/23 08:45:30 pm | -0.013 | 60 | 20.37 | | |
| Replicates | 42.4 | 63.5 | 84.3 | 49.9 | | | | | | |
| HS23061615-02 | | | | UNK | 06/27/23 08:47:13 pm | -0.011 | 78 | 38.28 | | |
| Replicates | 117.3 | 76.4 | 62.4 | 55.4 | | | | | | |
| CCV | | | | UNK | 06/27/23 09:05:12 pm | 5.060 | 34327 | 1.09 | | |
| Replicates | 33872.9 | 34212.3 | 34481.1 | 34743.5 | | | | | | |
| CCB | | | | UNK | 06/27/23 09:06:56 pm | -0.013 | 62 | 25.53 | | |
| Replicates | 89.4 | 66.5 | 55.7 | 35.1 | | | | | | |

Calibration for 092_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062823A.b\
Analysis File: 062823A.batch.bin
DA Date-Time: 6/28/2023 1:34:55 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 085CALB.d | CAL BLK | 6/28/2023 1:20:35 PM |
| 2 | 086CALS.d | 2/10/200 | 6/28/2023 1:22:27 PM |
| 3 | 087CALS.d | 5/25/500 | 6/28/2023 1:24:19 PM |
| 4 | 088CALS.d | 10/50/100 | 6/28/2023 1:26:11 PM |
| 5 | 089CALS.d | 100/500/10K | 6/28/2023 1:28:03 PM |
| 6 | 090CALS.d | 200/1000/20K | 6/28/2023 1:29:52 PM |

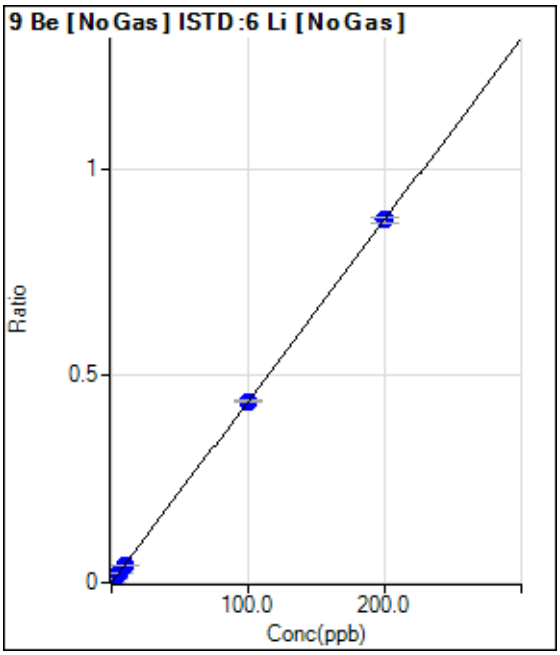
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 31333.11 | 0.0665 | P | 0.7 |
| 2 | ☐ | 2.000 | 1.969 | 43811.16 | 0.0922 | P | 1.7 |
| 3 | ☐ | 5.000 | 4.884 | 61762.87 | 0.1302 | P | 0.9 |
| 4 | ☐ | 10.000 | 9.842 | 91539.93 | 0.1949 | P | 0.5 |
| 5 | ☐ | 100.000 | 100.022 | 613673.22 | 1.3716 | P | 1.5 |
| 6 | ☑ | 200.000 | | 926336.49 | 2.1446 | A | 1.3 |

y = 0.0130 * x + 0.0665
R = 1.0000
DL = 0.1041
BEC = 5.098

Weight: <None>
Min Conc: <None>

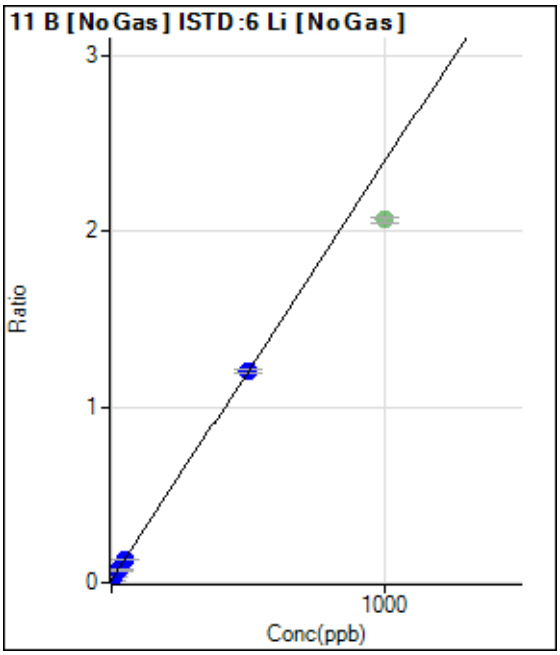



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 30.00 | 0.0001 | P | 1.3 |
| 2 | ☐ | 2.000 | 1.930 | 4052.28 | 0.0085 | P | 1.7 |
| 3 | ☐ | 5.000 | 4.915 | 10252.13 | 0.0216 | P | 2.9 |
| 4 | ☐ | 10.000 | 9.728 | 20064.37 | 0.0427 | P | 1.9 |
| 5 | ☐ | 100.000 | 100.070 | 196430.11 | 0.4390 | P | 1.1 |
| 6 | ☐ | 200.000 | 199.981 | 378841.74 | 0.8773 | P | 1.8 |

y = 0.0044 * x + 6.3698E-005
R = 1.0000
DL = 0.0005568
BEC = 0.01452

Weight: <None>
Min Conc: <None>

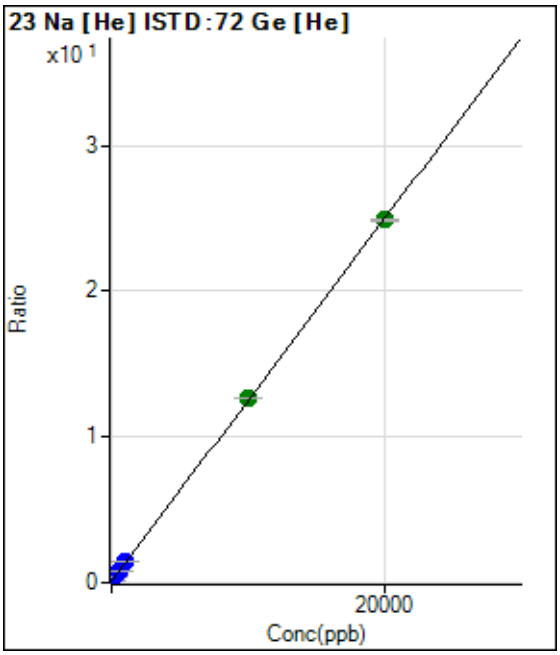
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6970.11 | 0.0148 | P | 3.5 |
| 2 | ☐ | 10.000 | 9.349 | 17607.78 | 0.0371 | P | 1.7 |
| 3 | ☐ | 25.000 | 24.047 | 34164.87 | 0.0721 | P | 3.2 |
| 4 | ☐ | 50.000 | 48.896 | 61612.69 | 0.1312 | P | 0.9 |
| 5 | ☐ | 500.000 | 500.171 | 539390.25 | 1.2056 | P | 1.6 |
| 6 | ☑ | 1000.000 | | 892704.81 | 2.0671 | A | 1.7 |

y = 0.0024 * x + 0.0148
R = 1.0000
DL = 0.6567
BEC = 6.217

Weight: <None>
Min Conc: <None>

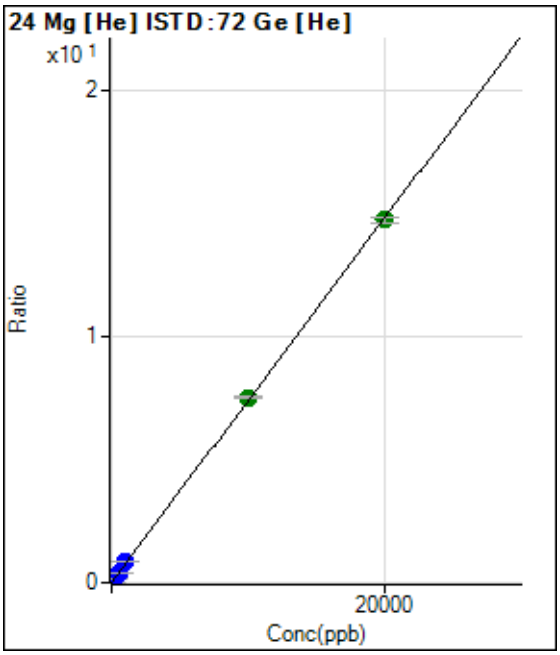



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 35468.72 | 0.0750 | P | 3.2 |
| 2 | ☐ | 200.000 | 222.904 | 165302.69 | 0.3524 | P | 0.5 |
| 3 | ☐ | 500.000 | 558.268 | 363672.34 | 0.7696 | P | 1.0 |
| 4 | ☐ | 1000.000 | 1112.700 | 682270.12 | 1.4593 | P | 0.2 |
| 5 | ☐ | 10000.000 | 10093.868 | 5782029.50 | 12.6327 | A | 0.5 |
| 6 | ☐ | 20000.000 | 19945.745 | 10975425.67 | 24.8892 | A | 0.7 |

y = 0.0012 * x + 0.0750
R = 1.0000
DL = 5.824
BEC = 60.32

Weight: <None>
Min Conc: <None>

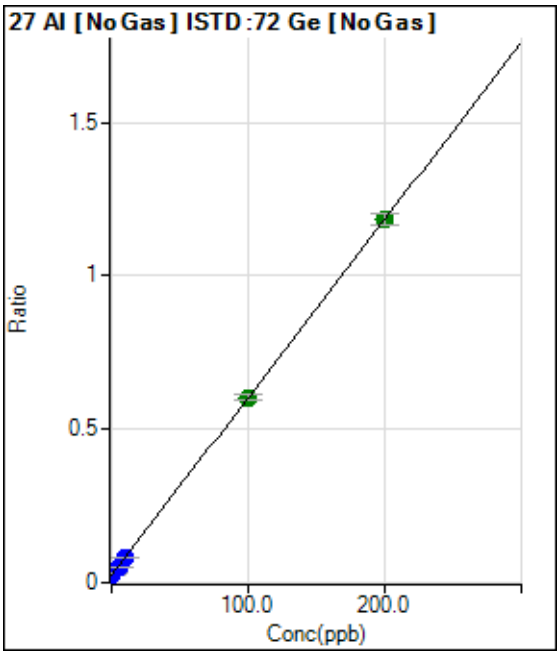
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1973.51 | 0.0042 | P | 10.1 |
| 2 | ☐ | 200.000 | 230.506 | 82017.10 | 0.1748 | P | 0.4 |
| 3 | ☐ | 500.000 | 565.884 | 199967.46 | 0.4231 | P | 1.5 |
| 4 | ☐ | 1000.000 | 1131.190 | 393465.30 | 0.8416 | P | 0.3 |
| 5 | ☐ | 10000.000 | 10165.700 | 3446519.84 | 7.5299 | A | 0.7 |
| 6 | ☐ | 20000.000 | 19908.638 | 6500638.24 | 14.7426 | A | 1.5 |

y = 7.4030E-004 * x + 0.0042
R = 0.9999
DL = 1.706
BEC = 5.642

Weight: <None>
Min Conc: <None>

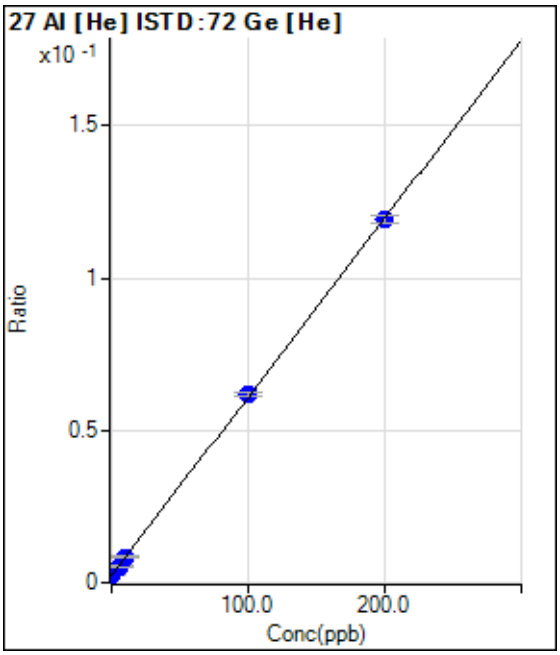



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 37310.29 | 0.0244 | P | 4.4 |
| 2 | ☐ | 2.000 | 1.770 | 54128.67 | 0.0346 | P | 2.6 |
| 3 | ☐ | 5.000 | 4.309 | 77324.11 | 0.0493 | P | 1.1 |
| 4 | ☐ | 10.000 | 9.518 | 123928.05 | 0.0795 | P | 1.4 |
| 5 | ☐ | 100.000 | 100.151 | 915608.66 | 0.6042 | A | 2.6 |
| 6 | ☐ | 200.000 | 199.968 | 1721783.46 | 1.1820 | A | 3.2 |

y = 0.0058 * x + 0.0244
R = 1.0000
DL = 0.5506
BEC = 4.21

Weight: <None>
Min Conc: <None>

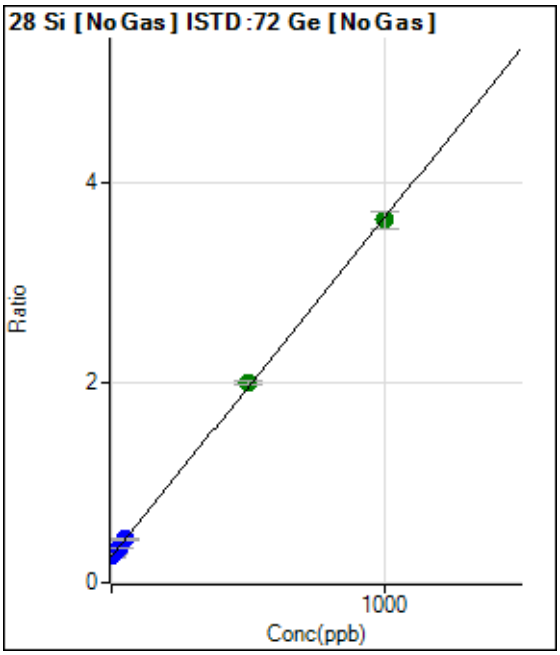
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1123.40 | 0.0024 | P | 9.9 |
| 2 | ☐ | 2.000 | 2.505 | 1803.52 | 0.0038 | P | 6.1 |
| 3 | ☐ | 5.000 | 4.881 | 2473.60 | 0.0052 | P | 10.8 |
| 4 | ☐ | 10.000 | 9.968 | 3840.61 | 0.0082 | P | 7.9 |
| 5 | ☐ | 100.000 | 101.392 | 28255.68 | 0.0617 | P | 1.6 |
| 6 | ☐ | 200.000 | 199.304 | 52488.90 | 0.1190 | P | 2.1 |

y = 5.8537E-004 * x + 0.0024
R = 1.0000
DL = 1.21
BEC = 4.064

Weight: <None>
Min Conc: <None>

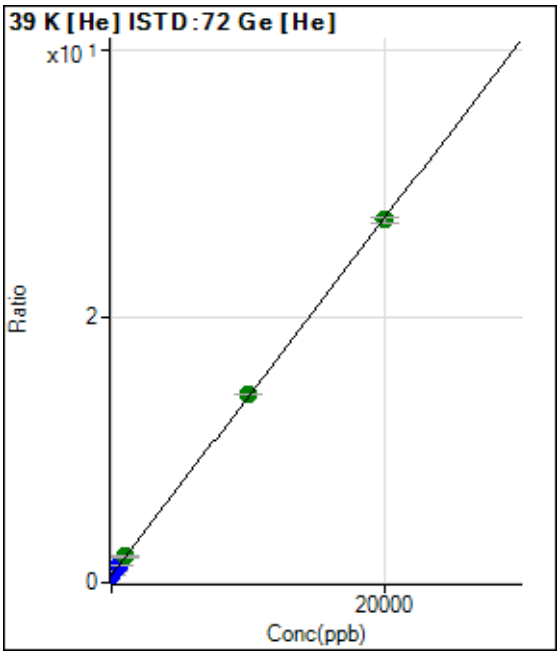



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 401993.66 | 0.2625 | P | 2.4 |
| 2 | ☐ | 10.000 | 7.947 | 452496.86 | 0.2894 | P | 1.8 |
| 3 | ☐ | 25.000 | 23.586 | 536806.18 | 0.3424 | P | 1.2 |
| 4 | ☐ | 50.000 | 50.829 | 677873.76 | 0.4347 | P | 0.9 |
| 5 | ☐ | 500.000 | 512.807 | 3031821.10 | 2.0001 | A | 1.0 |
| 6 | ☐ | 1000.000 | 993.611 | 5284706.69 | 3.6293 | A | 4.6 |

y = 0.0034 * x + 0.2625
R = 0.9999
DL = 5.477
BEC = 77.46

Weight: <None>
Min Conc: <None>

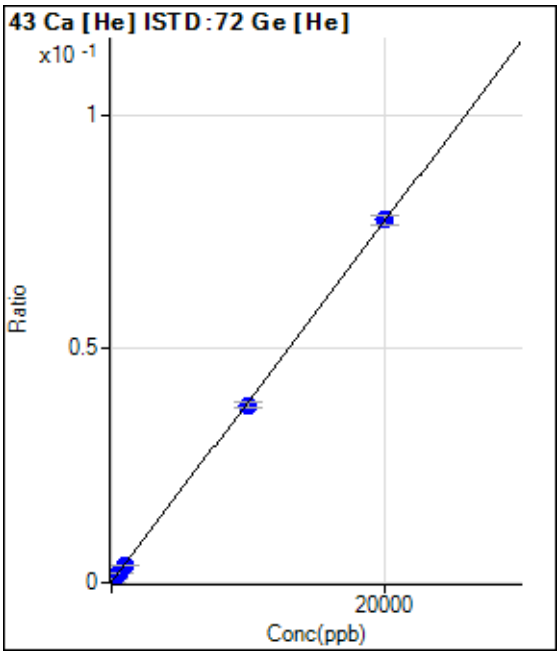
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 266702.61 | 0.5642 | P | 1.7 |
| 2 | ☐ | 200.000 | 216.397 | 400910.98 | 0.8546 | P | 1.7 |
| 3 | ☐ | 500.000 | 539.893 | 609025.49 | 1.2888 | P | 0.8 |
| 4 | ☐ | 1000.000 | 1039.848 | 916179.15 | 1.9597 | A | 1.3 |
| 5 | ☐ | 10000.000 | 10176.153 | 6508704.28 | 14.2205 | A | 0.1 |
| 6 | ☐ | 20000.000 | 19908.770 | 12029113.57 | 27.2815 | A | 1.4 |

y = 0.0013 * x + 0.5642
R = 0.9999
DL = 21.05
BEC = 420.4

Weight: <None>
Min Conc: <None>

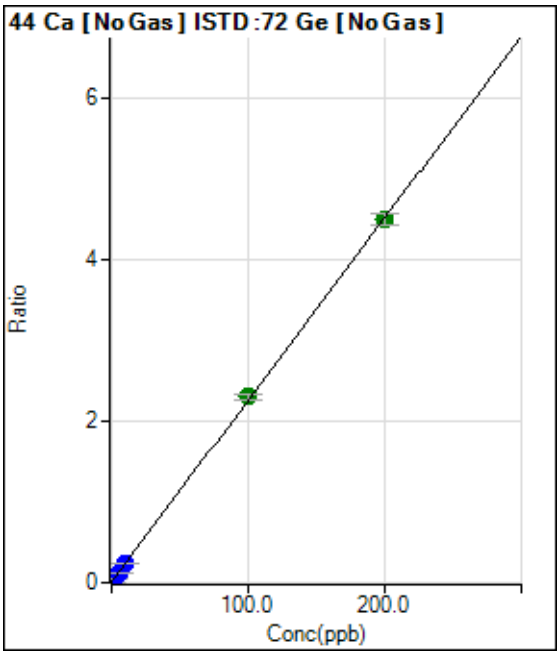



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 63.33 | 0.0001 | P | 49.0 |
| 2 | ☐ | 200.000 | 159.133 | 350.01 | 0.0007 | P | 20.7 |
| 3 | ☐ | 500.000 | 516.115 | 1003.39 | 0.0021 | P | 12.5 |
| 4 | ☐ | 1000.000 | 906.733 | 1696.80 | 0.0036 | P | 1.9 |
| 5 | ☐ | 10000.000 | 9830.276 | 17407.87 | 0.0380 | P | 3.1 |
| 6 | ☐ | 20000.000 | 20089.531 | 34209.48 | 0.0776 | P | 2.6 |

y = 3.8556E-006 * x + 1.3327E-004
R = 0.9999
DL = 50.82
BEC = 34.57

Weight: <None>
Min Conc: <None>

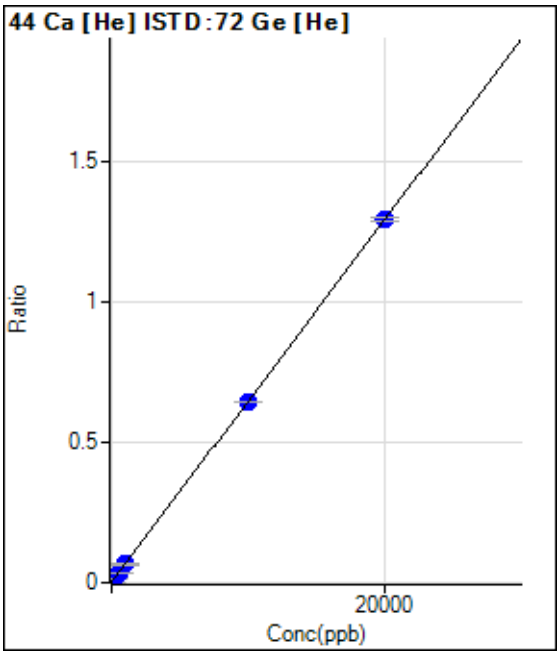
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 14401.11 | 0.0094 | P | 2.9 |
| 2 | ☐ | 2.000 | 2.050 | 86866.51 | 0.0556 | P | 3.9 |
| 3 | ☐ | 5.000 | 5.076 | 193992.25 | 0.1237 | P | 1.1 |
| 4 | ☐ | 10.000 | 10.283 | 375802.72 | 0.2410 | P | 1.5 |
| 5 | ☐ | 100.000 | 101.698 | 3485444.74 | 2.3000 | A | 2.7 |
| 6 | ☐ | 200.000 | 199.134 | 6546946.98 | 4.4946 | A | 3.3 |

y = 0.0225 * x + 0.0094
R = 0.9999
DL = 0.0369
BEC = 0.4175

Weight: <None>
Min Conc: <None>

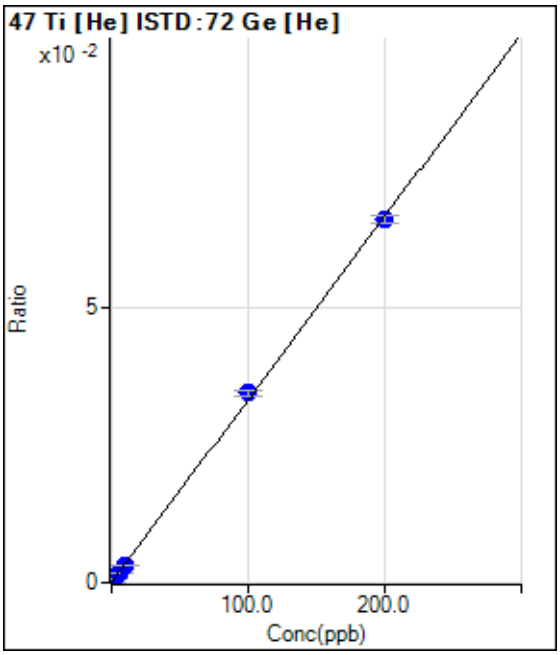



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 620.03 | 0.0013 | P | 10.7 |
| 2 | ☐ | 200.000 | 204.479 | 6805.14 | 0.0145 | P | 1.9 |
| 3 | ☐ | 500.000 | 504.844 | 16009.62 | 0.0339 | P | 3.7 |
| 4 | ☐ | 1000.000 | 995.022 | 30627.77 | 0.0655 | P | 3.6 |
| 5 | ☐ | 10000.000 | 9988.002 | 295535.70 | 0.6457 | P | 0.3 |
| 6 | ☐ | 20000.000 | 20006.082 | 569717.43 | 1.2920 | P | 1.0 |

y = 6.4517E-005 * x + 0.0013
R = 1.0000
DL = 6.544
BEC = 20.33

Weight: <None>
Min Conc: <None>

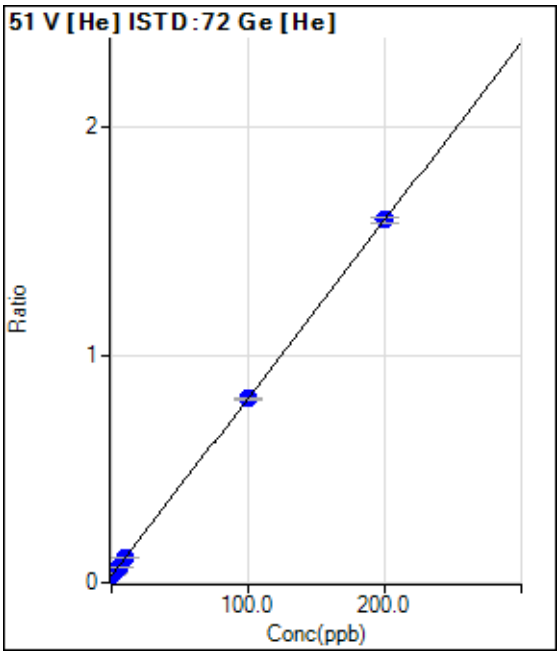
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 20.00 | 0.0000 | P | 1.6 |
| 2 | ☐ | 2.000 | 1.818 | 303.34 | 0.0006 | P | 32.1 |
| 3 | ☐ | 5.000 | 4.972 | 800.04 | 0.0017 | P | 11.4 |
| 4 | ☐ | 10.000 | 9.280 | 1460.11 | 0.0031 | P | 7.8 |
| 5 | ☐ | 100.000 | 103.476 | 15742.57 | 0.0344 | P | 2.8 |
| 6 | ☐ | 200.000 | 198.300 | 29054.33 | 0.0659 | P | 2.0 |

y = 3.3201E-004 * x + 4.2313E-005
R = 0.9998
DL = 0.006072
BEC = 0.1274

Weight: <None>
Min Conc: <None>

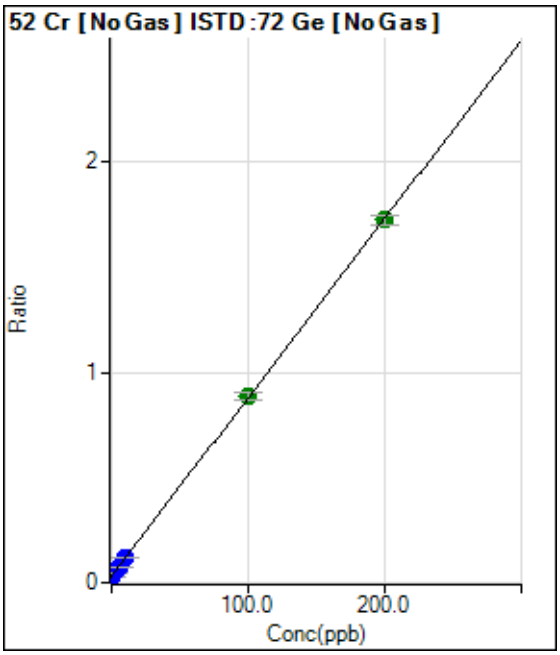



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 14270.81 | 0.0302 | P | 2.9 |
| 2 | ☐ | 2.000 | 2.039 | 21635.98 | 0.0461 | P | 1.1 |
| 3 | ☐ | 5.000 | 4.935 | 32490.57 | 0.0687 | P | 0.5 |
| 4 | ☐ | 10.000 | 9.847 | 50077.75 | 0.1071 | P | 1.2 |
| 5 | ☐ | 100.000 | 99.540 | 369705.97 | 0.8077 | P | 0.8 |
| 6 | ☐ | 200.000 | 200.239 | 702976.06 | 1.5943 | P | 1.6 |

y = 0.0078 * x + 0.0302
R = 1.0000
DL = 0.336
BEC = 3.866

Weight: <None>
Min Conc: <None>

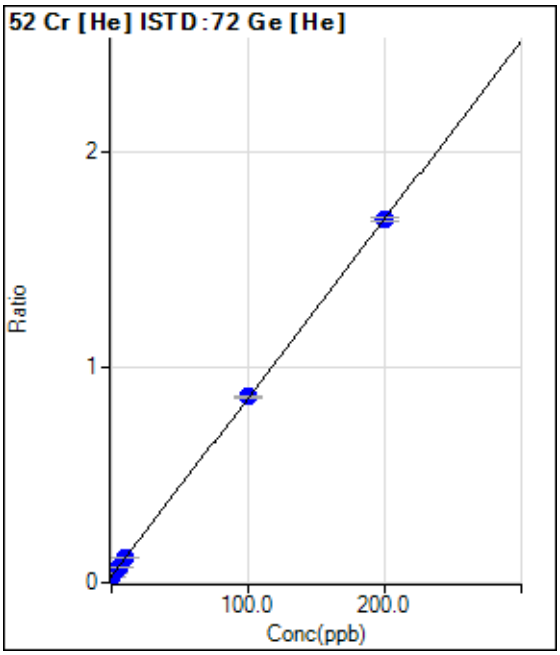
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 47168.26 | 0.0308 | P | 1.6 |
| 2 | ☐ | 2.000 | 1.927 | 73717.79 | 0.0471 | P | 2.0 |
| 3 | ☐ | 5.000 | 4.903 | 113516.84 | 0.0724 | P | 1.7 |
| 4 | ☐ | 10.000 | 10.108 | 181800.36 | 0.1166 | P | 0.6 |
| 5 | ☐ | 100.000 | 100.987 | 1345473.94 | 0.8879 | A | 4.0 |
| 6 | ☐ | 200.000 | 199.504 | 2511632.88 | 1.7241 | A | 2.8 |

y = 0.0085 * x + 0.0308
R = 1.0000
DL = 0.1737
BEC = 3.628

Weight: <None>
Min Conc: <None>

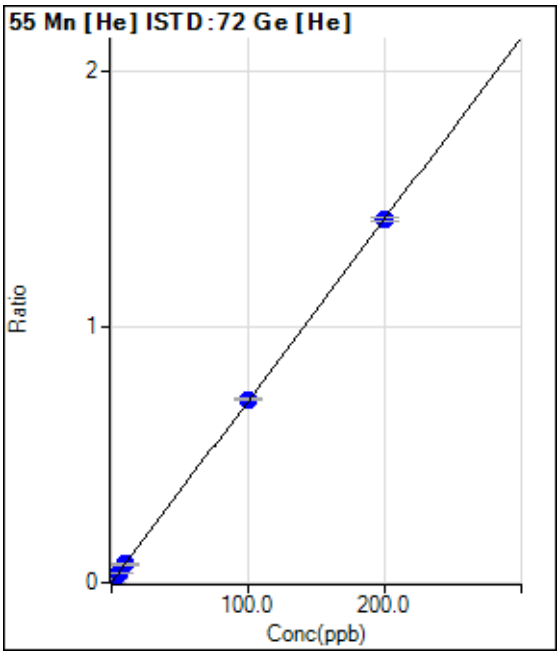



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 14160.90 | 0.0300 | P | 3.8 |
| 2 | ☐ | 2.000 | 2.116 | 22295.05 | 0.0475 | P | 1.5 |
| 3 | ☐ | 5.000 | 5.097 | 34146.20 | 0.0722 | P | 1.4 |
| 4 | ☐ | 10.000 | 10.365 | 54210.66 | 0.1160 | P | 0.9 |
| 5 | ☐ | 100.000 | 100.573 | 395608.00 | 0.8643 | P | 0.9 |
| 6 | ☐ | 200.000 | 199.692 | 743697.17 | 1.6866 | P | 0.9 |

y = 0.0083 * x + 0.0300
R = 1.0000
DL = 0.4071
BEC = 3.612

Weight: <None>
Min Conc: <None>

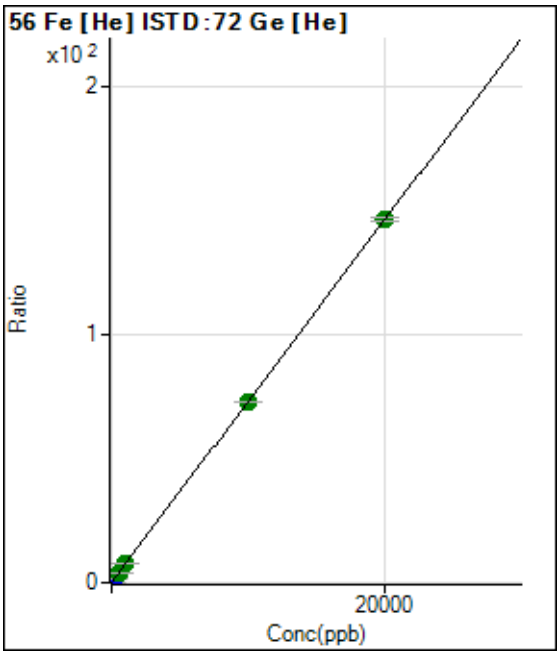
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 363.34 | 0.0008 | P | 5.4 |
| 2 | ☐ | 2.000 | 2.020 | 7095.32 | 0.0151 | P | 4.9 |
| 3 | ☐ | 5.000 | 4.981 | 17094.29 | 0.0362 | P | 1.9 |
| 4 | ☐ | 10.000 | 10.013 | 33624.95 | 0.0719 | P | 1.8 |
| 5 | ☐ | 100.000 | 100.760 | 328075.21 | 0.7168 | P | 0.5 |
| 6 | ☐ | 200.000 | 199.620 | 625804.07 | 1.4193 | P | 1.2 |

y = 0.0071 * x + 7.6895E-004
R = 1.0000
DL = 0.01755
BEC = 0.1082

Weight: <None>
Min Conc: <None>

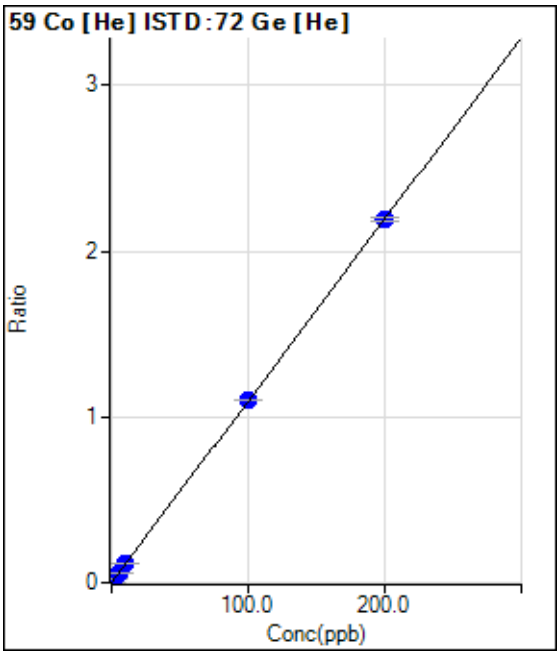



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 45345.60 | 0.0959 | P | 0.6 |
| 2 | ☐ | 200.000 | 208.356 | 758106.08 | 1.6160 | P | 0.5 |
| 3 | ☐ | 500.000 | 518.027 | 1831651.28 | 3.8751 | A | 2.7 |
| 4 | ☐ | 1000.000 | 1017.454 | 3515075.36 | 7.5186 | A | 1.2 |
| 5 | ☐ | 10000.000 | 9983.930 | 33380627.84 | 72.9327 | A | 0.4 |
| 6 | ☐ | 20000.000 | 20006.628 | 64400254.04 | 146.0523 | A | 1.2 |

y = 0.0073 * x + 0.0959
R = 1.0000
DL = 0.2347
BEC = 13.15

Weight: <None>
Min Conc: <None>

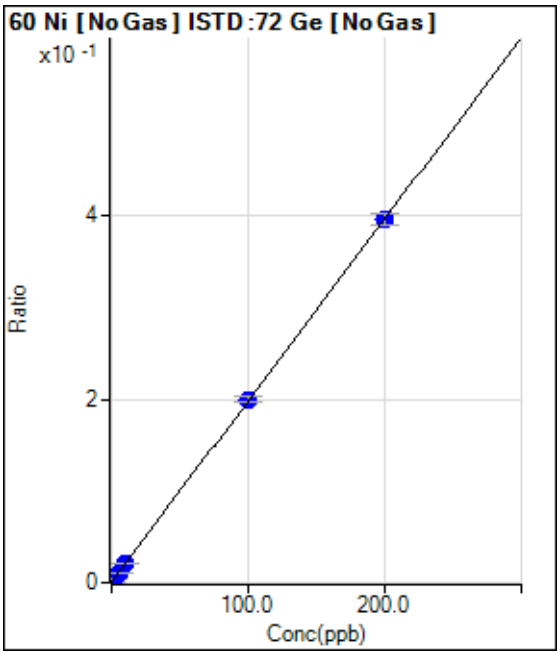
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 53.33 | 0.0001 | P | 48.0 |
| 2 | ☐ | 2.000 | 2.069 | 10687.72 | 0.0228 | P | 2.6 |
| 3 | ☐ | 5.000 | 5.036 | 26132.12 | 0.0553 | P | 1.5 |
| 4 | ☐ | 10.000 | 10.109 | 51842.03 | 0.1109 | P | 0.5 |
| 5 | ☐ | 100.000 | 100.495 | 504036.67 | 1.1013 | P | 0.7 |
| 6 | ☐ | 200.000 | 199.746 | 965108.81 | 2.1888 | P | 1.2 |

y = 0.0110 * x + 1.1326E-004
R = 1.0000
DL = 0.01489
BEC = 0.01034

Weight: <None>
Min Conc: <None>

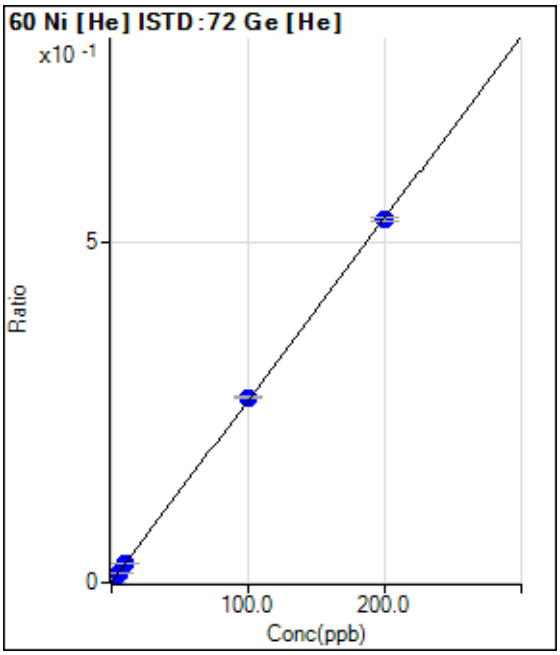



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 806.71 | 0.0005 | P | 7.7 |
| 2 | ☐ | 2.000 | 2.029 | 7108.63 | 0.0045 | P | 2.2 |
| 3 | ☐ | 5.000 | 5.073 | 16587.00 | 0.0106 | P | 3.0 |
| 4 | ☐ | 10.000 | 10.129 | 32118.05 | 0.0206 | P | 0.8 |
| 5 | ☐ | 100.000 | 100.674 | 303112.97 | 0.2000 | P | 2.6 |
| 6 | ☐ | 200.000 | 199.654 | 576993.92 | 0.3961 | P | 3.3 |

y = 0.0020 * x + 5.2665E-004
R = 1.0000
DL = 0.06139
BEC = 0.2658

Weight: <None>
Min Conc: <None>

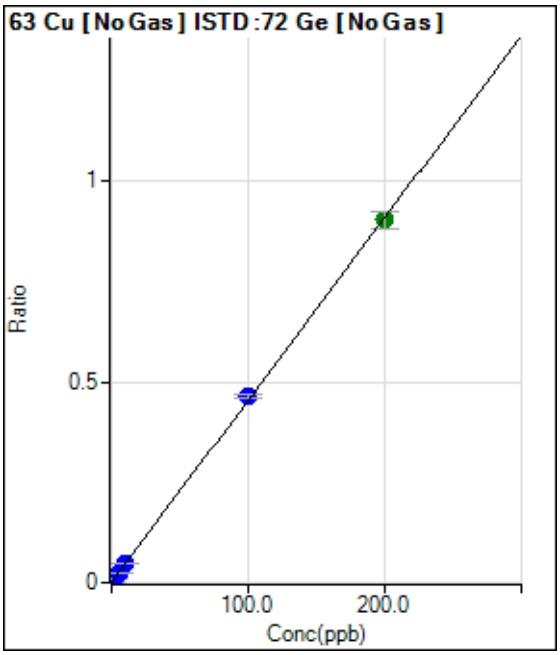
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 340.01 | 0.0007 | P | 17.7 |
| 2 | ☐ | 2.000 | 1.834 | 2640.30 | 0.0056 | P | 13.7 |
| 3 | ☐ | 5.000 | 4.838 | 6461.65 | 0.0137 | P | 3.9 |
| 4 | ☐ | 10.000 | 10.049 | 12916.35 | 0.0276 | P | 4.6 |
| 5 | ☐ | 100.000 | 101.703 | 124988.66 | 0.2731 | P | 1.0 |
| 6 | ☐ | 200.000 | 199.152 | 235477.58 | 0.5340 | P | 1.2 |

y = 0.0027 * x + 7.1923E-004
R = 0.9999
DL = 0.1429
BEC = 0.2686

Weight: <None>
Min Conc: <None>

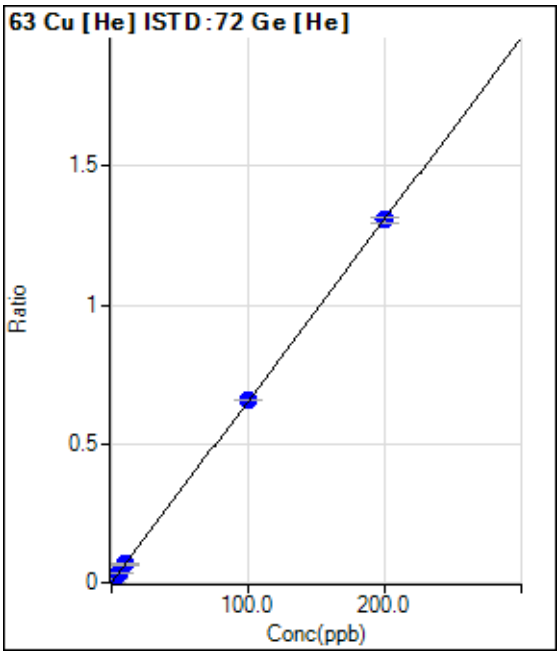



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1103.39 | 0.0007 | P | 22.9 |
| 2 | ☐ | 2.000 | 2.096 | 16006.36 | 0.0102 | P | 4.9 |
| 3 | ☐ | 5.000 | 5.193 | 38106.99 | 0.0243 | P | 0.5 |
| 4 | ☐ | 10.000 | 10.375 | 74597.30 | 0.0478 | P | 0.9 |
| 5 | ☐ | 100.000 | 101.964 | 702891.53 | 0.4638 | P | 2.0 |
| 6 | ☐ | 200.000 | 198.994 | 1316742.45 | 0.9044 | A | 5.1 |

y = 0.0045 * x + 7.2142E-004
R = 0.9999
DL = 0.1092
BEC = 0.1589

Weight: <None>
Min Conc: <None>

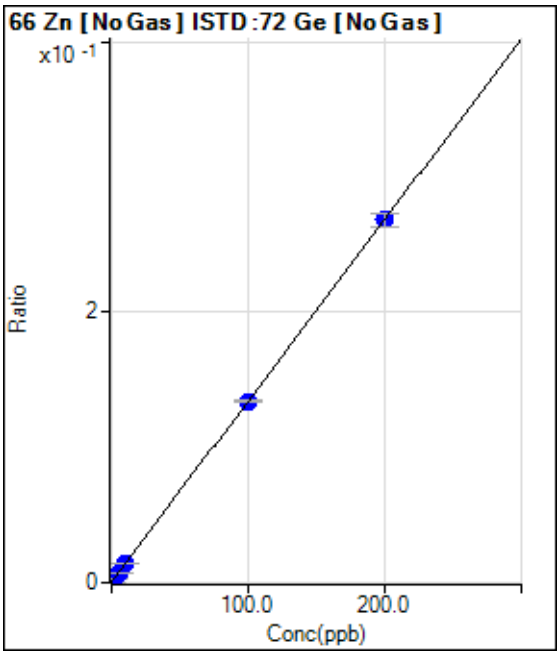
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 223.34 | 0.0005 | P | 30.2 |
| 2 | ☐ | 2.000 | 2.031 | 6448.31 | 0.0137 | P | 4.3 |
| 3 | ☐ | 5.000 | 5.036 | 15779.37 | 0.0334 | P | 0.7 |
| 4 | ☐ | 10.000 | 10.104 | 31095.87 | 0.0665 | P | 2.6 |
| 5 | ☐ | 100.000 | 100.460 | 300731.14 | 0.6571 | P | 0.6 |
| 6 | ☐ | 200.000 | 199.764 | 575912.69 | 1.3061 | P | 1.3 |

y = 0.0065 * x + 4.7131E-004
R = 1.0000
DL = 0.06536
BEC = 0.07211

Weight: <None>
Min Conc: <None>

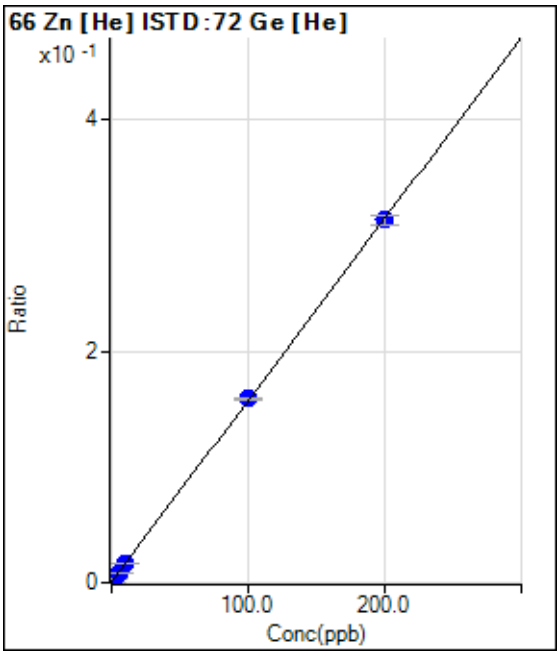



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 720.03 | 0.0005 | P | 18.8 |
| 2 | ☐ | 2.000 | 1.906 | 4727.56 | 0.0030 | P | 1.9 |
| 3 | ☐ | 5.000 | 4.969 | 11164.77 | 0.0071 | P | 5.5 |
| 4 | ☐ | 10.000 | 9.929 | 21460.57 | 0.0138 | P | 0.4 |
| 5 | ☐ | 100.000 | 99.994 | 203626.65 | 0.1343 | P | 1.0 |
| 6 | ☐ | 200.000 | 200.008 | 390659.02 | 0.2682 | P | 3.5 |

y = 0.0013 * x + 4.7052E-004
R = 1.0000
DL = 0.1981
BEC = 0.3515

Weight: <None>
Min Conc: <None>

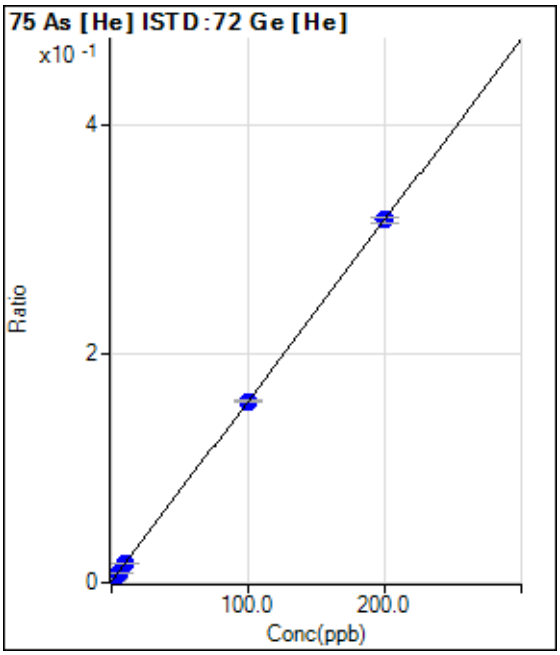
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 303.34 | 0.0006 | P | 21.7 |
| 2 | ☐ | 2.000 | 1.894 | 1693.47 | 0.0036 | P | 10.5 |
| 3 | ☐ | 5.000 | 5.074 | 4057.35 | 0.0086 | P | 7.7 |
| 4 | ☐ | 10.000 | 10.085 | 7685.66 | 0.0164 | P | 3.9 |
| 5 | ☐ | 100.000 | 101.002 | 72714.06 | 0.1589 | P | 1.2 |
| 6 | ☐ | 200.000 | 199.494 | 138077.52 | 0.3132 | P | 2.5 |

y = 0.0016 * x + 6.4132E-004
R = 1.0000
DL = 0.2668
BEC = 0.4094

Weight: <None>
Min Conc: <None>

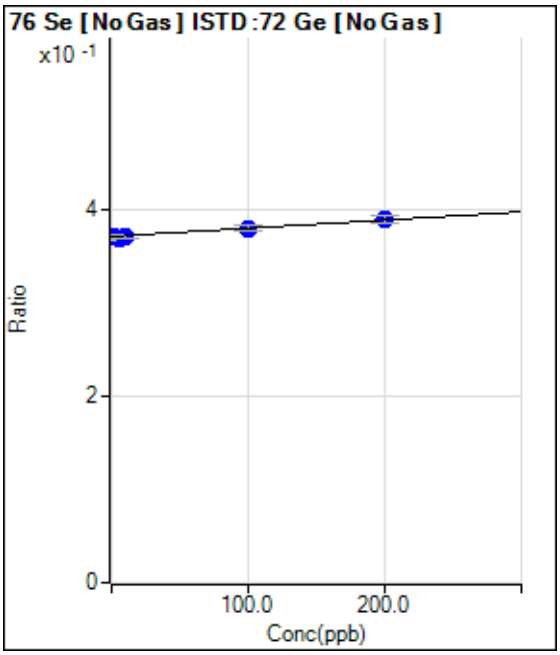



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 441.12 | 0.0009 | P | 7.0 |
| 2 | ☐ | 2.000 | 2.042 | 1953.49 | 0.0042 | P | 3.1 |
| 3 | ☐ | 5.000 | 4.767 | 4003.94 | 0.0085 | P | 3.9 |
| 4 | ☐ | 10.000 | 10.008 | 7835.64 | 0.0168 | P | 2.5 |
| 5 | ☐ | 100.000 | 99.831 | 72679.76 | 0.1588 | P | 1.2 |
| 6 | ☐ | 200.000 | 200.089 | 139928.56 | 0.3173 | P | 1.5 |

y = 0.0016 * x + 9.3336E-004
R = 1.0000
DL = 0.1248
BEC = 0.5902

Weight: <None>
Min Conc: <None>

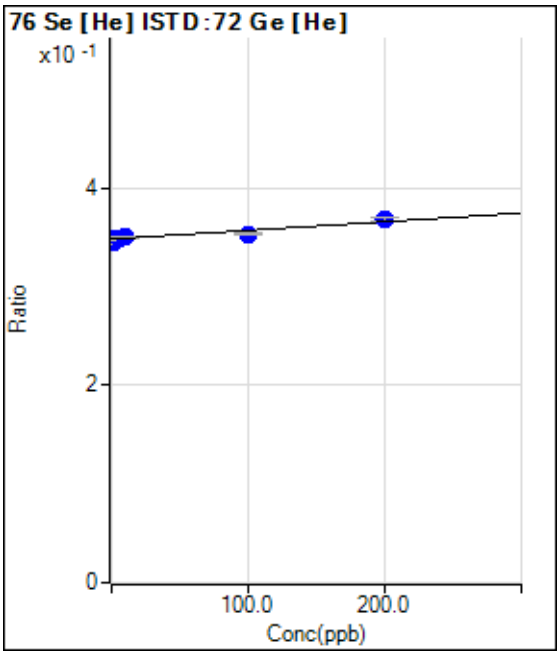
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 568501.64 | 0.3711 | P | 1.3 |
| 2 | ☐ | 2.000 | -3.266 | 579901.04 | 0.3708 | P | 0.6 |
| 3 | ☐ | 5.000 | -28.539 | 577972.49 | 0.3686 | P | 0.8 |
| 4 | ☐ | 10.000 | -5.148 | 578032.58 | 0.3707 | P | 0.8 |
| 5 | ☐ | 100.000 | 101.427 | 576000.14 | 0.3800 | P | 1.3 |
| 6 | ☐ | 200.000 | 200.935 | 566369.25 | 0.3887 | P | 2.1 |

y = 8.7580E-005 * x + 0.3711
R = 0.9909
DL = 163.8
BEC = 4237

Weight: <None>
Min Conc: <None>

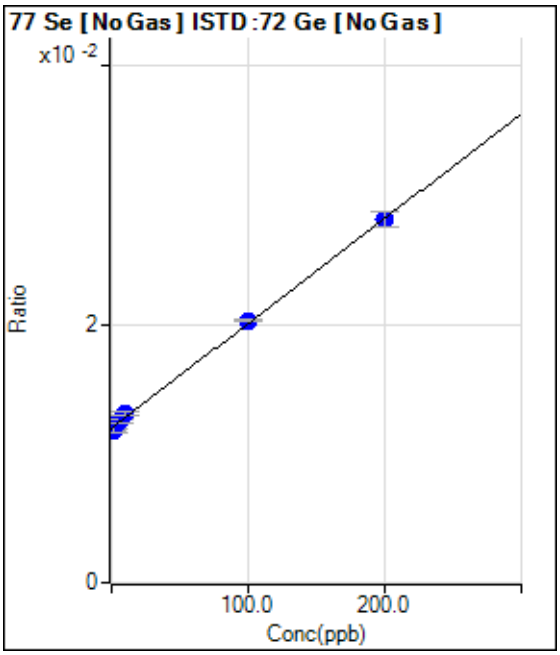



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 164672.49 | 0.3484 | P | 1.0 |
| 2 | ☐ | 2.000 | -45.274 | 161554.53 | 0.3444 | P | 0.9 |
| 3 | ☐ | 5.000 | 0.814 | 164675.33 | 0.3484 | P | 0.5 |
| 4 | ☐ | 10.000 | 19.504 | 163676.64 | 0.3501 | P | 0.2 |
| 5 | ☐ | 100.000 | 60.408 | 161881.57 | 0.3537 | P | 0.9 |
| 6 | ☐ | 200.000 | 219.898 | 162196.25 | 0.3678 | P | 0.9 |

y = 8.8260E-005 * x + 0.3484
R = 0.9607
DL = 123.5
BEC = 3947

Weight: <None>
Min Conc: <None>

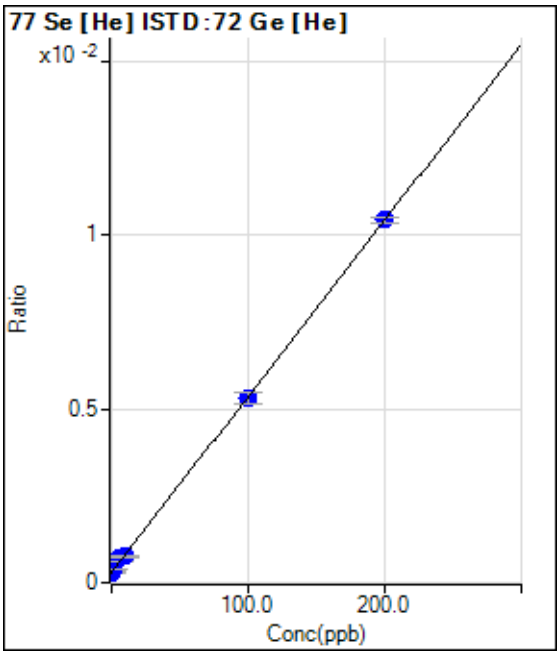
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 18336.08 | 0.0120 | P | 3.4 |
| 2 | ☐ | 2.000 | -3.303 | 18306.02 | 0.0117 | P | 2.9 |
| 3 | ☐ | 5.000 | 6.970 | 19661.35 | 0.0125 | P | 1.9 |
| 4 | ☐ | 10.000 | 13.402 | 20369.01 | 0.0131 | P | 2.1 |
| 5 | ☐ | 100.000 | 102.418 | 30742.09 | 0.0203 | P | 1.0 |
| 6 | ☐ | 200.000 | 198.624 | 40888.76 | 0.0281 | P | 4.3 |

y = 8.1076E-005 * x + 0.0120
R = 0.9992
DL = 15.24
BEC = 147.7

Weight: <None>
Min Conc: <None>

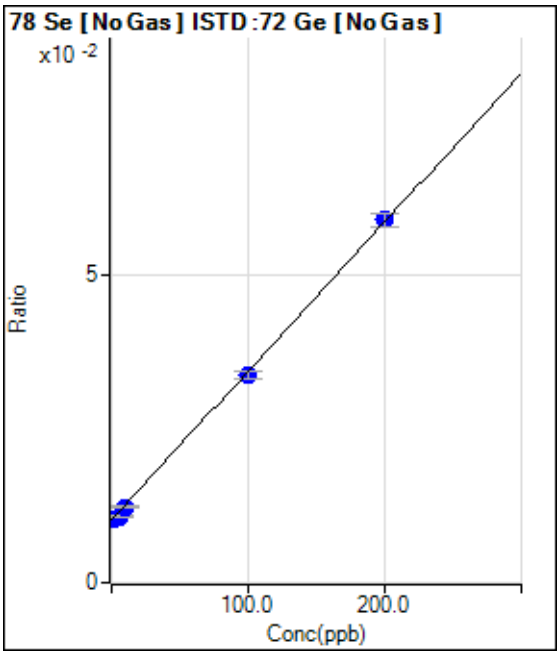



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 140.00 | 0.0003 | P | 13.0 |
| 2 | ☐ | 2.000 | 1.592 | 176.67 | 0.0004 | P | 8.2 |
| 3 | ☐ | 5.000 | 8.078 | 333.34 | 0.0007 | P | 21.3 |
| 4 | ☐ | 10.000 | 9.082 | 353.34 | 0.0008 | P | 3.0 |
| 5 | ☐ | 100.000 | 99.275 | 2436.93 | 0.0053 | P | 6.0 |
| 6 | ☐ | 200.000 | 200.335 | 4604.20 | 0.0104 | P | 1.6 |

y = 5.0641E-005 * x + 2.9584E-004
R = 0.9998
DL = 2.274
BEC = 5.842

Weight: <None>
Min Conc: <None>

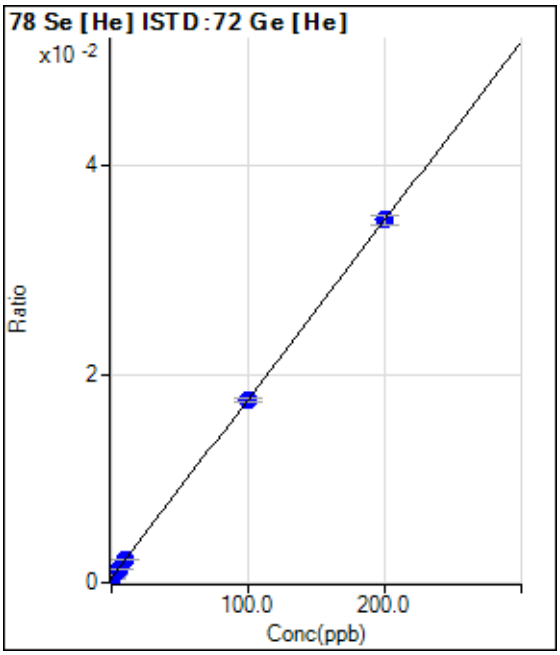
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 15672.60 | 0.0102 | P | 4.8 |
| 2 | ☐ | 2.000 | 0.412 | 16166.63 | 0.0103 | P | 1.2 |
| 3 | ☐ | 5.000 | 2.226 | 16897.45 | 0.0108 | P | 1.7 |
| 4 | ☐ | 10.000 | 8.313 | 19107.18 | 0.0123 | P | 2.4 |
| 5 | ☐ | 100.000 | 97.440 | 51337.82 | 0.0339 | P | 3.4 |
| 6 | ☐ | 200.000 | 201.450 | 86103.93 | 0.0591 | P | 3.5 |

y = 2.4265E-004 * x + 0.0102
R = 0.9999
DL = 6.051
BEC = 42.19

Weight: <None>
Min Conc: <None>

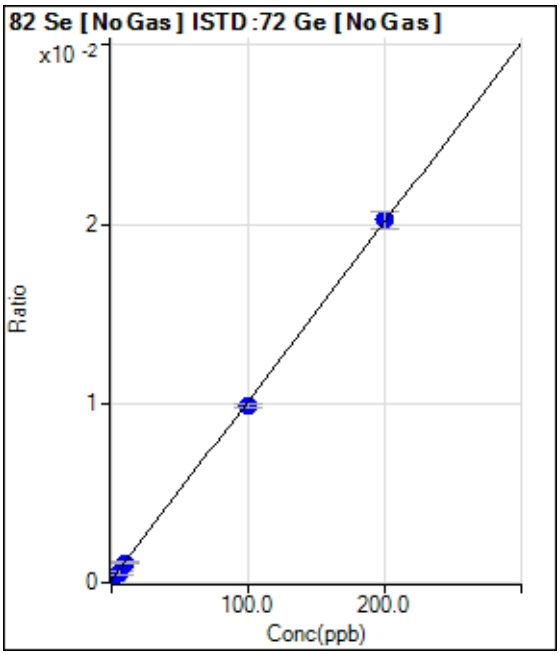



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 216.67 | 0.0005 | P | 16.8 |
| 2 | ☐ | 2.000 | 2.102 | 384.68 | 0.0008 | P | 7.1 |
| 3 | ☐ | 5.000 | 4.747 | 602.02 | 0.0013 | P | 3.4 |
| 4 | ☐ | 10.000 | 10.316 | 1042.71 | 0.0022 | P | 1.1 |
| 5 | ☐ | 100.000 | 99.498 | 8031.07 | 0.0175 | P | 1.8 |
| 6 | ☐ | 200.000 | 200.240 | 15362.75 | 0.0348 | P | 2.3 |

y = 1.7172E-004 * x + 4.5875E-004
R = 1.0000
DL = 1.344
BEC = 2.671

Weight: <None>
Min Conc: <None>

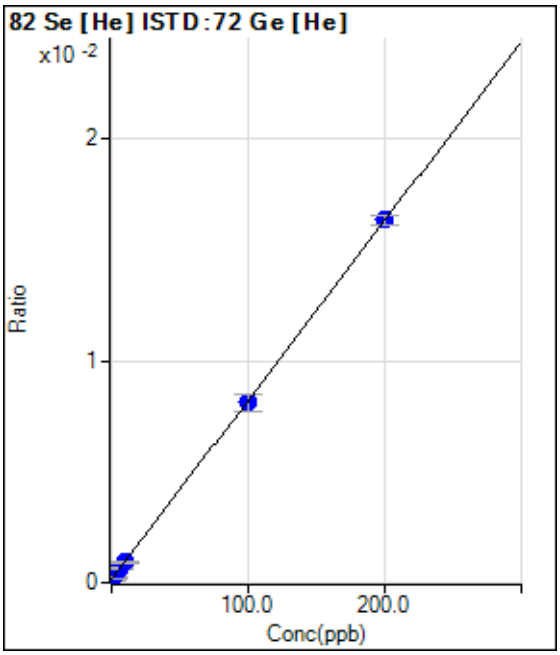
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 248.57 | 0.0002 | P | 47.1 |
| 2 | ☐ | 2.000 | 1.674 | 511.89 | 0.0003 | P | 12.4 |
| 3 | ☐ | 5.000 | 3.783 | 842.13 | 0.0005 | P | 24.1 |
| 4 | ☐ | 10.000 | 9.547 | 1735.51 | 0.0011 | P | 5.8 |
| 5 | ☐ | 100.000 | 97.616 | 15000.94 | 0.0099 | P | 2.3 |
| 6 | ☐ | 200.000 | 201.248 | 29465.03 | 0.0202 | P | 4.5 |

y = 9.9749E-005 * x + 1.6075E-004
R = 0.9999
DL = 2.277
BEC = 1.612

Weight: <None>
Min Conc: <None>

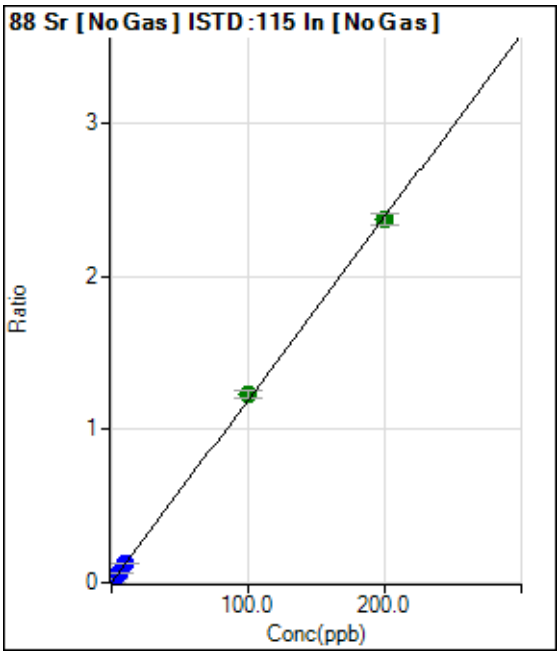



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 66.67 | 0.0001 | P | 57.5 |
| 2 | ☐ | 2.000 | 1.156 | 110.00 | 0.0002 | P | 33.2 |
| 3 | ☐ | 5.000 | 6.113 | 300.01 | 0.0006 | P | 9.5 |
| 4 | ☐ | 10.000 | 9.728 | 433.35 | 0.0009 | P | 9.9 |
| 5 | ☐ | 100.000 | 98.899 | 3720.60 | 0.0081 | P | 9.6 |
| 6 | ☐ | 200.000 | 200.545 | 7205.39 | 0.0163 | P | 2.4 |

y = 8.0778E-005 * x + 1.4129E-004
R = 0.9999
DL = 3.017
BEC = 1.749

Weight: <None>
Min Conc: <None>

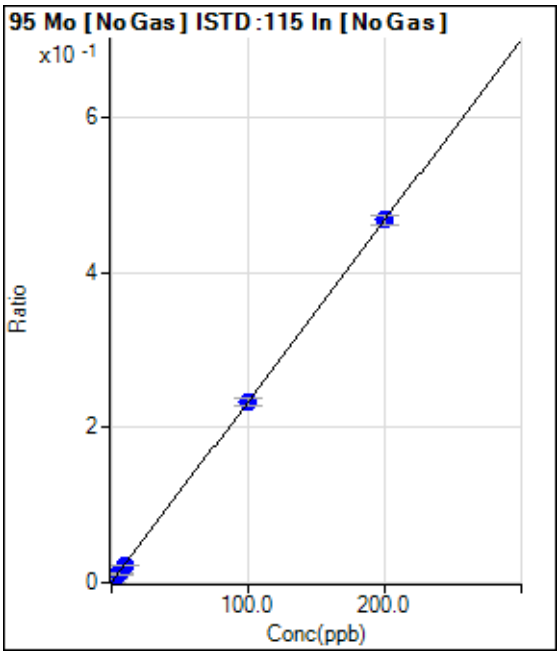
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1356.77 | 0.0008 | P | 4.8 |
| 2 | ☐ | 2.000 | 2.042 | 45407.49 | 0.0251 | P | 0.1 |
| 3 | ☐ | 5.000 | 5.040 | 110838.78 | 0.0609 | P | 1.7 |
| 4 | ☐ | 10.000 | 10.211 | 221099.67 | 0.1227 | P | 1.7 |
| 5 | ☐ | 100.000 | 103.108 | 2112392.52 | 1.2316 | A | 3.8 |
| 6 | ☐ | 200.000 | 198.434 | 3980452.65 | 2.3695 | A | 3.3 |

y = 0.0119 * x + 7.6139E-004
R = 0.9998
DL = 0.009213
BEC = 0.06378

Weight: <None>
Min Conc: <None>

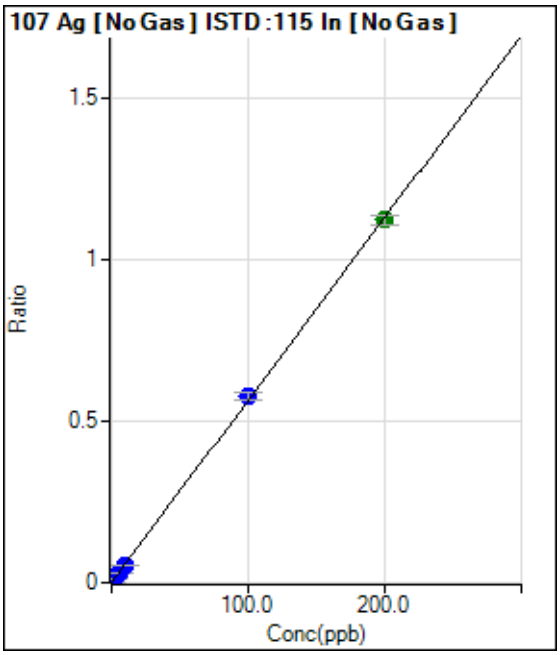



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 680.03 | 0.0004 | P | 1.5 |
| 2 | ☐ | 2.000 | 1.909 | 8723.05 | 0.0048 | P | 2.0 |
| 3 | ☐ | 5.000 | 4.643 | 20379.18 | 0.0112 | P | 4.4 |
| 4 | ☐ | 10.000 | 9.259 | 39595.88 | 0.0220 | P | 1.8 |
| 5 | ☐ | 100.000 | 99.483 | 398413.28 | 0.2323 | P | 3.9 |
| 6 | ☐ | 200.000 | 200.305 | 785065.07 | 0.4673 | P | 2.9 |

y = 0.0023 * x + 3.8160E-004
R = 1.0000
DL = 0.00716
BEC = 0.1637

Weight: <None>
Min Conc: <None>

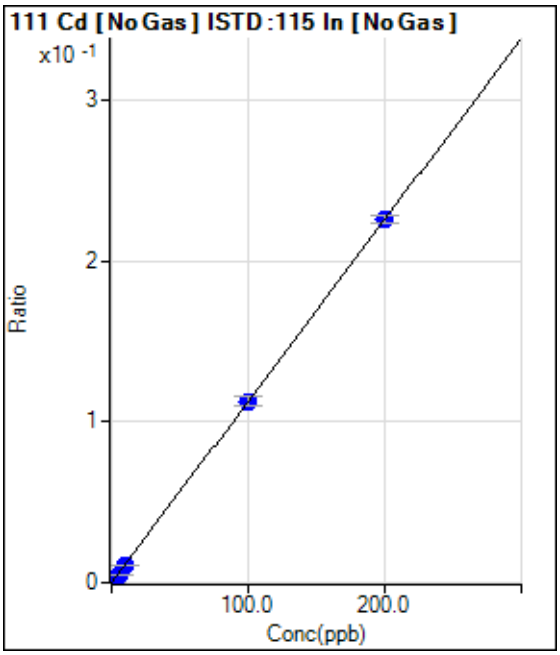
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 823.37 | 0.0005 | P | 4.7 |
| 2 | ☐ | 2.000 | 1.927 | 20456.10 | 0.0113 | P | 2.2 |
| 3 | ☐ | 5.000 | 4.929 | 51393.40 | 0.0283 | P | 1.9 |
| 4 | ☐ | 10.000 | 9.808 | 100522.78 | 0.0558 | P | 1.6 |
| 5 | ☐ | 100.000 | 102.134 | 988445.97 | 0.5763 | P | 3.8 |
| 6 | ☐ | 200.000 | 198.945 | 1885121.79 | 1.1222 | A | 2.8 |

y = 0.0056 * x + 4.6168E-004
R = 0.9999
DL = 0.01151
BEC = 0.08188

Weight: <None>
Min Conc: <None>

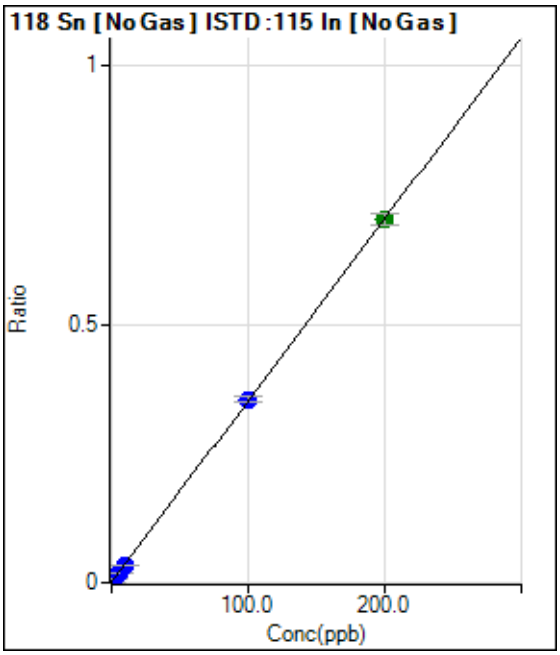



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | -10.97 | 0.0000 | P | -98.1 |
| 2 | ☐ | 2.000 | 1.842 | 3744.26 | 0.0021 | P | 6.2 |
| 3 | ☐ | 5.000 | 4.681 | 9604.39 | 0.0053 | P | 0.6 |
| 4 | ☐ | 10.000 | 9.663 | 19658.51 | 0.0109 | P | 1.4 |
| 5 | ☐ | 100.000 | 100.001 | 193582.26 | 0.1129 | P | 4.7 |
| 6 | ☐ | 200.000 | 200.026 | 379397.70 | 0.2258 | P | 2.2 |

y = 0.0011 * x - 6.0890E-006
R = 1.0000
DL = 0.01588
BEC = -0.005393

Weight: <None>
Min Conc: <None>

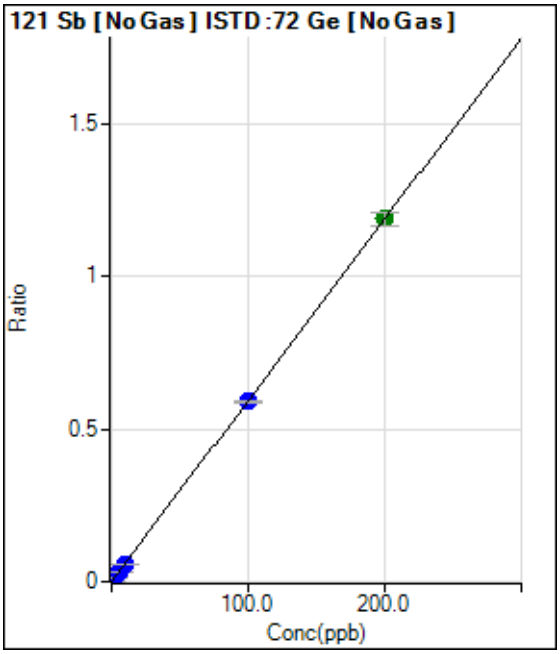
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1183.41 | 0.0007 | P | 6.7 |
| 2 | ☐ | 2.000 | 1.930 | 13443.73 | 0.0074 | P | 1.5 |
| 3 | ☐ | 5.000 | 4.771 | 31695.20 | 0.0174 | P | 1.3 |
| 4 | ☐ | 10.000 | 9.590 | 61909.02 | 0.0343 | P | 3.2 |
| 5 | ☐ | 100.000 | 100.870 | 608862.61 | 0.3549 | P | 3.4 |
| 6 | ☐ | 200.000 | 199.592 | 1178736.42 | 0.7017 | A | 3.1 |

y = 0.0035 * x + 6.6375E-004
R = 1.0000
DL = 0.03823
BEC = 0.189

Weight: <None>
Min Conc: <None>

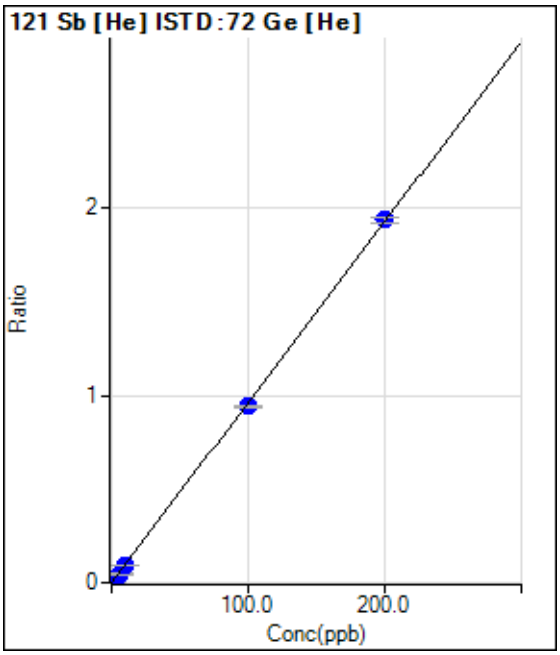



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 743.36 | 0.0005 | P | 12.2 |
| 2 | ☐ | 2.000 | 1.817 | 17595.38 | 0.0113 | P | 3.8 |
| 3 | ☐ | 5.000 | 4.764 | 45034.11 | 0.0287 | P | 2.7 |
| 4 | ☐ | 10.000 | 9.704 | 90470.76 | 0.0580 | P | 1.4 |
| 5 | ☐ | 100.000 | 99.399 | 893963.53 | 0.5898 | P | 1.7 |
| 6 | ☐ | 200.000 | 200.323 | 1730428.62 | 1.1882 | A | 3.9 |

y = 0.0059 * x + 4.8482E-004
R = 1.0000
DL = 0.02991
BEC = 0.08177

Weight: <None>
Min Conc: <None>

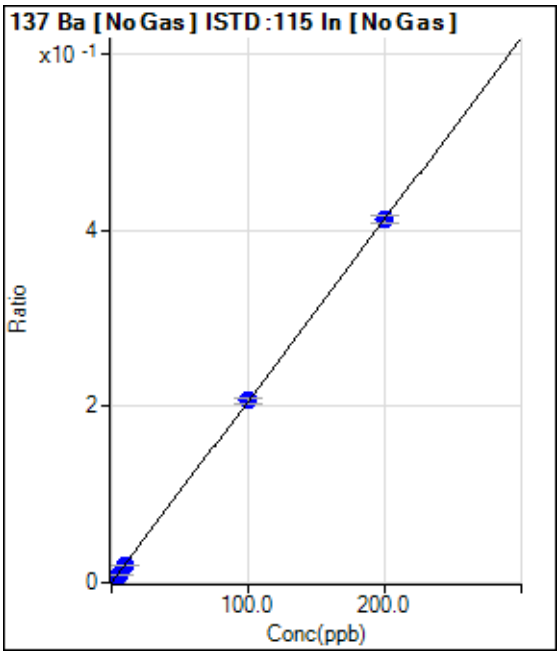
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 356.68 | 0.0008 | P | 5.8 |
| 2 | ☐ | 2.000 | 1.830 | 8612.96 | 0.0184 | P | 4.1 |
| 3 | ☐ | 5.000 | 4.712 | 21774.93 | 0.0461 | P | 0.5 |
| 4 | ☐ | 10.000 | 9.565 | 43368.58 | 0.0928 | P | 1.2 |
| 5 | ☐ | 100.000 | 97.847 | 431110.43 | 0.9419 | P | 0.8 |
| 6 | ☐ | 200.000 | 201.107 | 853258.79 | 1.9352 | P | 1.8 |

y = 0.0096 * x + 7.5413E-004
R = 0.9999
DL = 0.01354
BEC = 0.0784

Weight: <None>
Min Conc: <None>

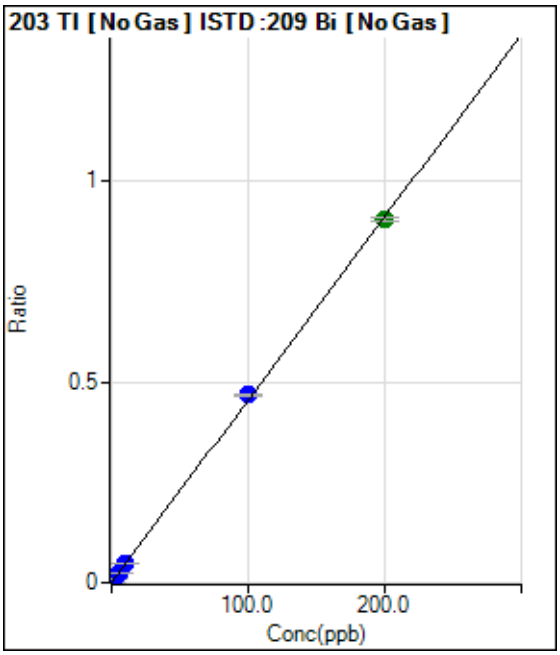



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 203.34 | 0.0001 | P | 24.1 |
| 2 | ☐ | 2.000 | 1.933 | 7398.89 | 0.0041 | P | 6.8 |
| 3 | ☐ | 5.000 | 4.646 | 17632.23 | 0.0097 | P | 1.2 |
| 4 | ☐ | 10.000 | 9.496 | 35488.85 | 0.0197 | P | 1.5 |
| 5 | ☐ | 100.000 | 100.408 | 355213.33 | 0.2071 | P | 2.9 |
| 6 | ☐ | 200.000 | 199.831 | 692185.25 | 0.4120 | P | 2.0 |

y = 0.0021 * x + 1.1432E-004
R = 1.0000
DL = 0.04008
BEC = 0.05546

Weight: <None>
Min Conc: <None>

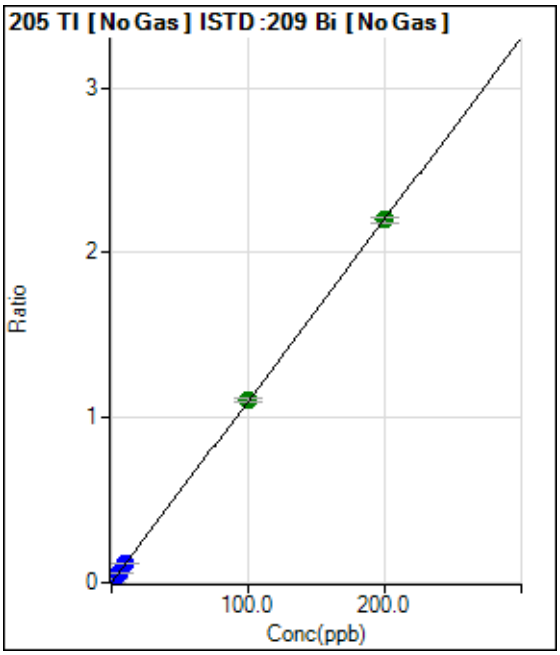
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 206.67 | 0.0002 | P | 35.1 |
| 2 | ☐ | 2.000 | 2.066 | 12049.41 | 0.0096 | P | 1.4 |
| 3 | ☐ | 5.000 | 5.263 | 30130.15 | 0.0241 | P | 0.7 |
| 4 | ☐ | 10.000 | 10.244 | 57616.29 | 0.0468 | P | 1.8 |
| 5 | ☐ | 100.000 | 102.862 | 570288.56 | 0.4688 | P | 0.6 |
| 6 | ☐ | 200.000 | 198.550 | 1069017.75 | 0.9047 | A | 0.9 |

y = 0.0046 * x + 1.7221E-004
R = 0.9999
DL = 0.03979
BEC = 0.0378

Weight: <None>
Min Conc: <None>

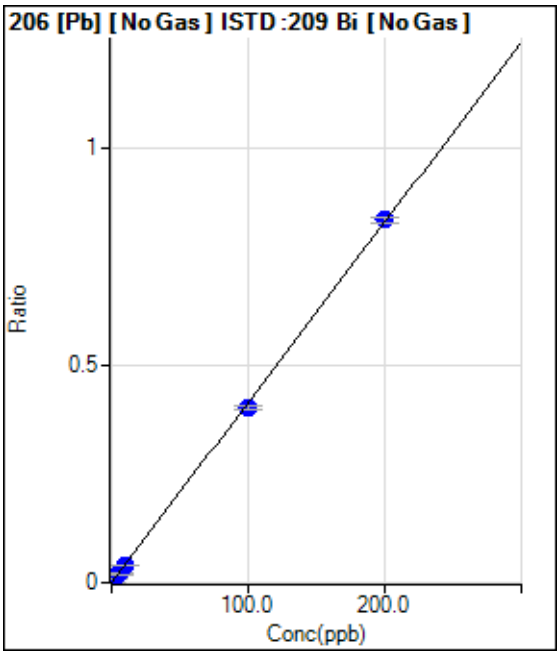



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 556.69 | 0.0005 | P | 13.8 |
| 2 | ☐ | 2.000 | 2.045 | 28873.75 | 0.0230 | P | 1.5 |
| 3 | ☐ | 5.000 | 5.185 | 71813.04 | 0.0576 | P | 0.3 |
| 4 | ☐ | 10.000 | 10.157 | 138129.08 | 0.1123 | P | 1.2 |
| 5 | ☐ | 100.000 | 100.435 | 1345678.31 | 1.1063 | A | 1.5 |
| 6 | ☐ | 200.000 | 199.770 | 2599720.95 | 2.2000 | A | 1.6 |

y = 0.0110 * x + 4.6392E-004
R = 1.0000
DL = 0.01744
BEC = 0.04214

Weight: <None>
Min Conc: <None>

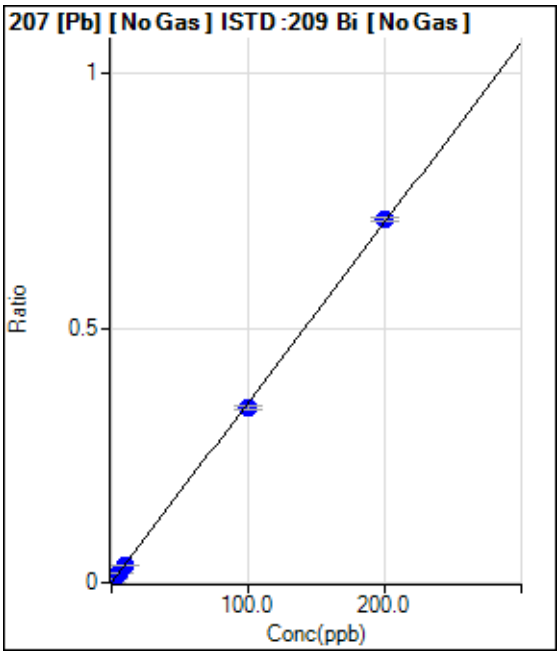
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 156.67 | 0.0001 | P | 31.3 |
| 2 | ☐ | 2.000 | 1.940 | 10267.79 | 0.0082 | P | 2.7 |
| 3 | ☐ | 5.000 | 4.789 | 24928.58 | 0.0200 | P | 2.9 |
| 4 | ☐ | 10.000 | 9.652 | 49381.62 | 0.0401 | P | 2.3 |
| 5 | ☐ | 100.000 | 97.288 | 490732.82 | 0.4034 | P | 1.6 |
| 6 | ☐ | 200.000 | 201.379 | 986485.45 | 0.8349 | P | 1.7 |

y = 0.0041 * x + 1.3084E-004
R = 0.9999
DL = 0.02962
BEC = 0.03156

Weight: <None>
Min Conc: <None>

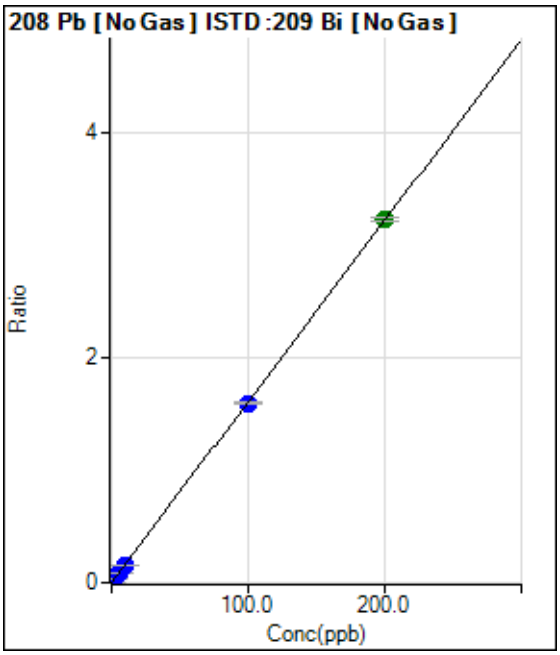



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 173.34 | 0.0001 | P | 19.6 |
| 2 | ☐ | 2.000 | 1.885 | 8569.77 | 0.0068 | P | 0.8 |
| 3 | ☐ | 5.000 | 4.945 | 22023.15 | 0.0177 | P | 0.8 |
| 4 | ☐ | 10.000 | 9.637 | 42134.90 | 0.0343 | P | 1.1 |
| 5 | ☐ | 100.000 | 97.150 | 418497.01 | 0.3441 | P | 1.8 |
| 6 | ☐ | 200.000 | 201.445 | 842746.39 | 0.7133 | P | 1.2 |

y = 0.0035 * x + 1.4466E-004
R = 0.9999
DL = 0.02397
BEC = 0.04087

Weight: <None>
Min Conc: <None>

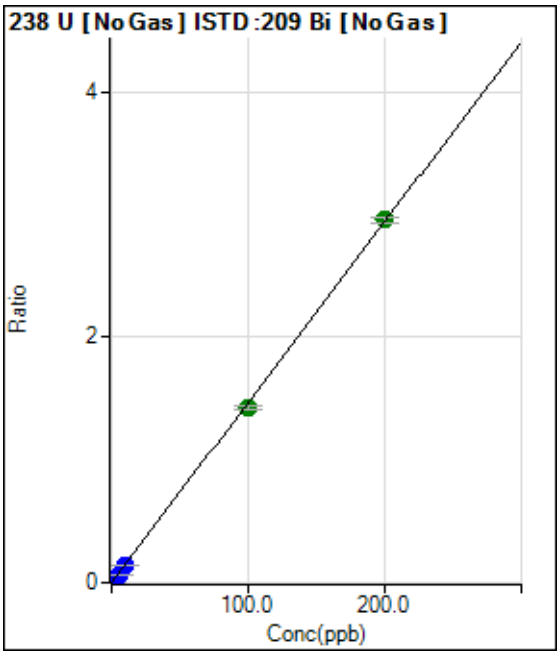
Calibration for 092_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 726.69 | 0.0006 | P | 11.3 |
| 2 | ☐ | 2.000 | 1.933 | 39828.91 | 0.0317 | P | 1.0 |
| 3 | ☐ | 5.000 | 4.906 | 99225.16 | 0.0795 | P | 1.7 |
| 4 | ☐ | 10.000 | 9.836 | 195347.23 | 0.1588 | P | 0.7 |
| 5 | ☐ | 100.000 | 99.094 | 1939668.72 | 1.5946 | P | 1.5 |
| 6 | ☐ | 200.000 | 200.464 | 3810794.47 | 3.2252 | A | 1.0 |

y = 0.0161 * x + 6.0561E-004
R = 1.0000
DL = 0.01276
BEC = 0.03765

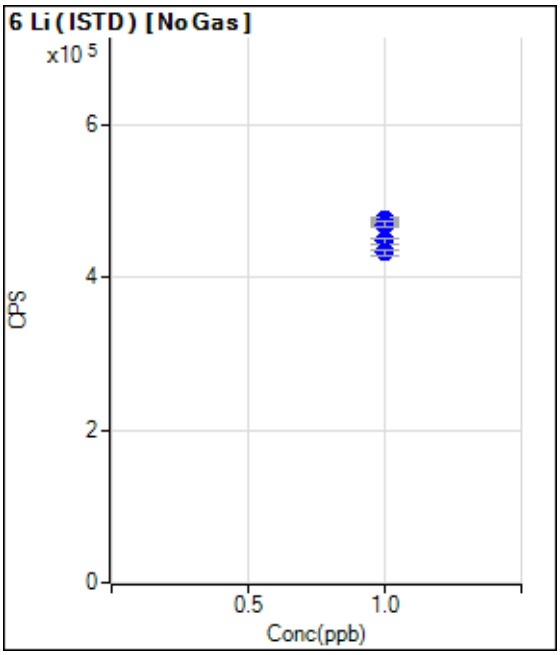
Weight: <None>
Min Conc: <None>



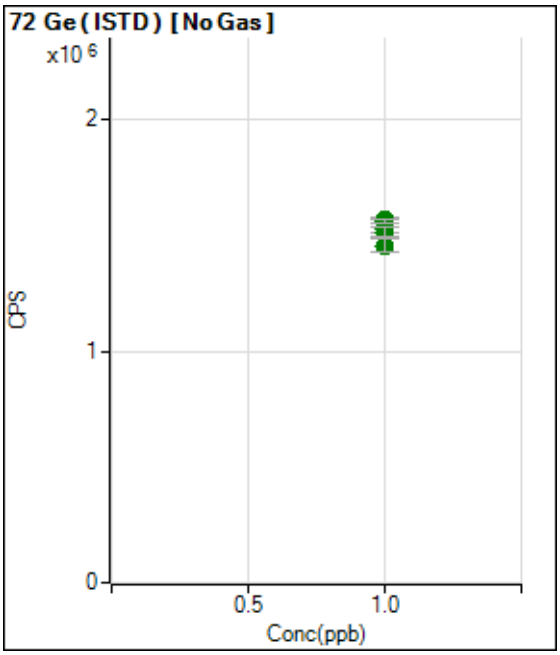

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 376.68 | 0.0003 | P | 4.9 |
| 2 | ☐ | 2.000 | 1.817 | 33944.13 | 0.0270 | P | 4.2 |
| 3 | ☐ | 5.000 | 4.599 | 84698.25 | 0.0679 | P | 1.8 |
| 4 | ☐ | 10.000 | 9.444 | 171045.92 | 0.1391 | P | 0.2 |
| 5 | ☐ | 100.000 | 97.462 | 1742028.67 | 1.4322 | A | 2.3 |
| 6 | ☐ | 200.000 | 201.309 | 3494942.97 | 2.9579 | A | 1.4 |

y = 0.0147 * x + 3.1362E-004
R = 0.9999
DL = 0.003133
BEC = 0.02135

Weight: <None>
Min Conc: <None>

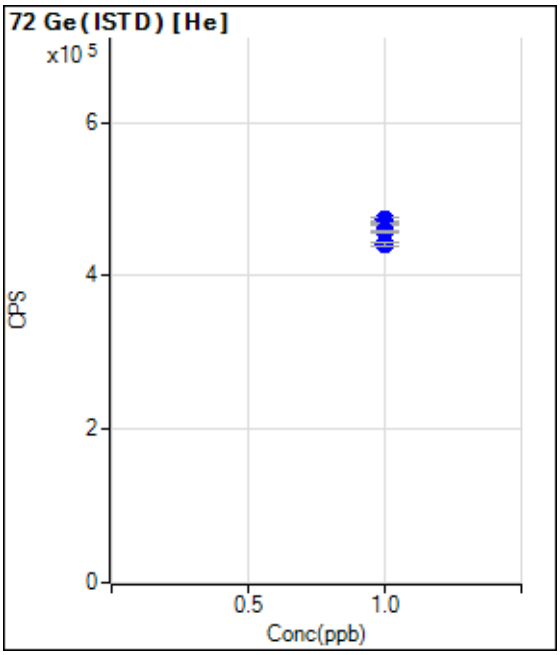



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 471022.82 | | P | 1.3 |
| 2 | ☐ | 1.000 | | 475143.20 | | P | 0.2 |
| 3 | ☐ | 1.000 | | 474252.25 | | P | 1.5 |
| 4 | ☐ | 1.000 | | 469599.92 | | P | 1.3 |
| 5 | ☐ | 1.000 | | 447478.48 | | P | 1.6 |
| 6 | ☐ | 1.000 | | 431923.38 | | P | 1.6 |

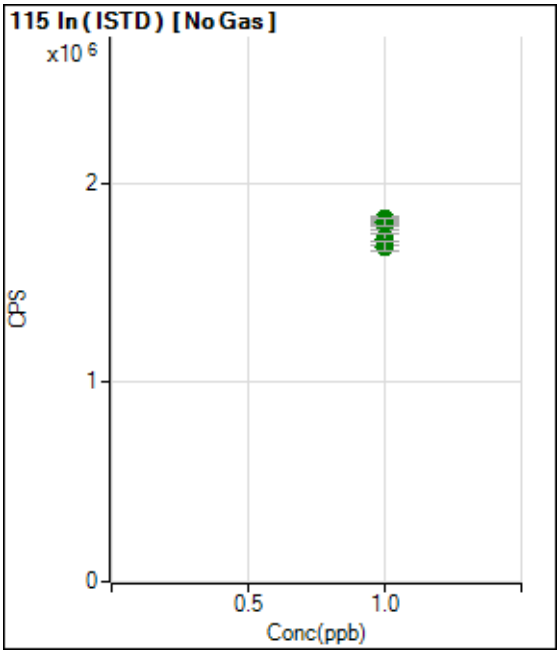



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1532242.69 | | A | 3.0 |
| 2 | ☐ | 1.000 | | 1563880.29 | | A | 1.7 |
| 3 | ☐ | 1.000 | | 1568017.63 | | A | 1.7 |
| 4 | ☐ | 1.000 | | 1559453.26 | | A | 1.0 |
| 5 | ☐ | 1.000 | | 1516058.05 | | A | 2.4 |
| 6 | ☐ | 1.000 | | 1457866.59 | | A | 4.0 |

Calibration for 092_ICV.d

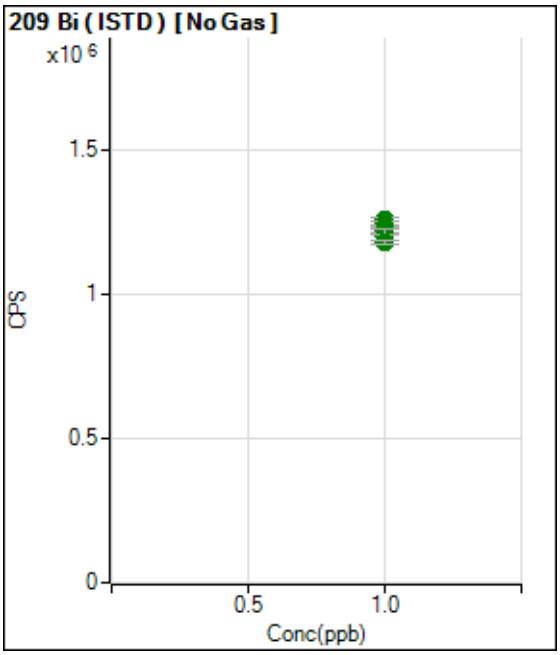



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 472742.67 | | P | 1.6 |
| 2 | ☐ | 1.000 | | 469145.56 | | P | 0.8 |
| 3 | ☐ | 1.000 | | 472591.38 | | P | 1.0 |
| 4 | ☐ | 1.000 | | 467522.72 | | P | 0.3 |
| 5 | ☐ | 1.000 | | 457698.98 | | P | 0.8 |
| 6 | ☐ | 1.000 | | 440981.23 | | P | 1.4 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1782326.38 | | A | 2.2 |
| 2 | ☐ | 1.000 | | 1805997.18 | | A | 1.2 |
| 3 | ☐ | 1.000 | | 1819392.60 | | A | 1.0 |
| 4 | ☐ | 1.000 | | 1803041.79 | | A | 2.0 |
| 5 | ☐ | 1.000 | | 1716691.83 | | A | 3.7 |
| 6 | ☐ | 1.000 | | 1680845.94 | | A | 3.0 |

Calibration for 092_ICV.d



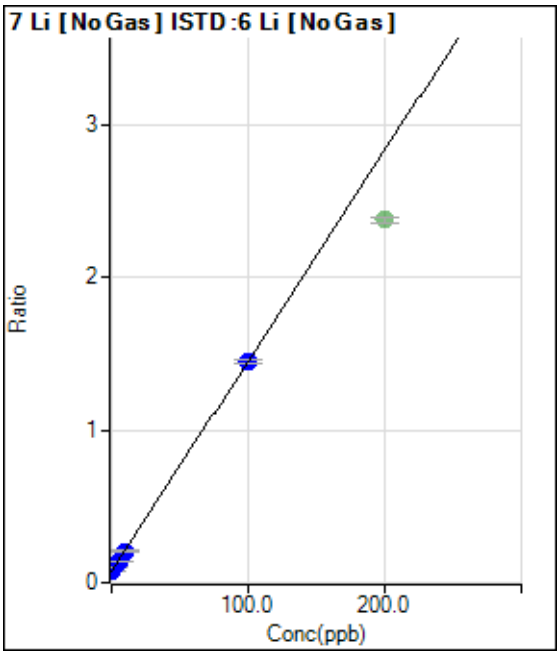

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1201519.72 | | A | 2.1 |
| 2 | ☐ | 1.000 | | 1256841.10 | | A | 1.2 |
| 3 | ☐ | 1.000 | | 1247792.64 | | A | 1.1 |
| 4 | ☐ | 1.000 | | 1229973.99 | | A | 0.8 |
| 5 | ☐ | 1.000 | | 1216568.11 | | A | 1.4 |
| 6 | ☐ | 1.000 | | 1181656.49 | | A | 1.1 |

Calibration for 020_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062823A.b\
Analysis File: 062823A.batch.bin
DA Date-Time: 6/28/2023 1:33:06 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 013CALB.d | CAL BLK | 6/28/2023 10:39:38 AM |
| 2 | 014CALS.d | 2/10/200 | 6/28/2023 10:41:30 AM |
| 3 | 015CALS.d | 5/25/500 | 6/28/2023 10:43:22 AM |
| 4 | 016CALS.d | 10/50/100 | 6/28/2023 10:45:14 AM |
| 5 | 017CALS.d | 100/500/10K | 6/28/2023 10:47:06 AM |
| 6 | 018CALS.d | 200/1000/20K | 6/28/2023 10:48:54 AM |

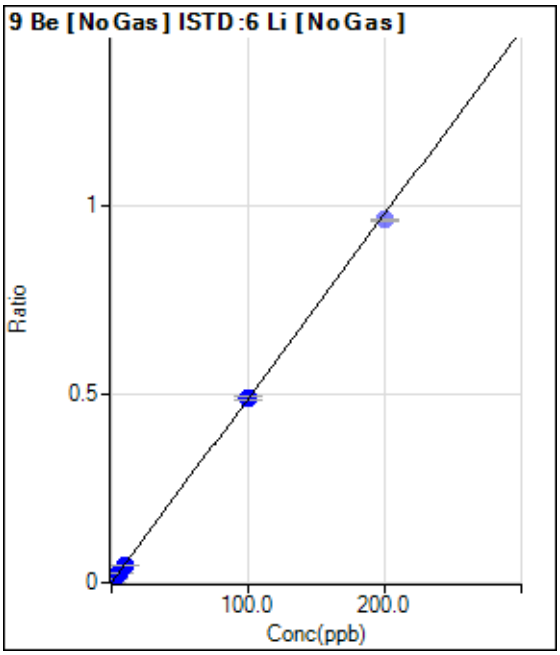
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 27566.99 | 0.0721 | P | 0.9 |
| 2 | ☐ | 2.000 | 2.118 | 38378.78 | 0.1013 | P | 1.1 |
| 3 | ☐ | 5.000 | 4.970 | 53148.28 | 0.1406 | P | 1.2 |
| 4 | ☐ | 10.000 | 9.759 | 78827.59 | 0.2065 | P | 1.4 |
| 5 | ☐ | 100.000 | 100.023 | 522975.20 | 1.4493 | P | 1.2 |
| 6 | ☑ | 200.000 | | 842176.91 | 2.3743 | A | 1.7 |

y = 0.0138 * x + 0.0721
R = 1.0000
DL = 0.1439
BEC = 5.24

Weight: <None>
Min Conc: <None>

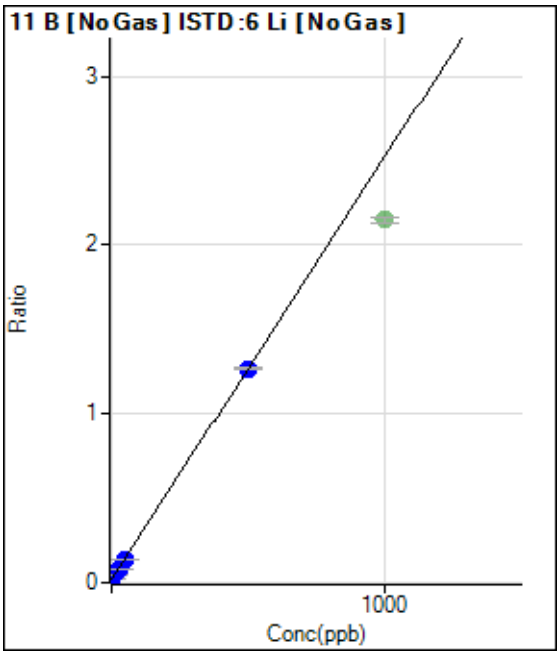



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 91.67 | 0.0002 | P | 10.7 |
| 2 | ☐ | 2.000 | 1.874 | 3563.81 | 0.0094 | P | 2.5 |
| 3 | ☐ | 5.000 | 4.814 | 8992.92 | 0.0238 | P | 1.3 |
| 4 | ☐ | 10.000 | 9.451 | 17739.63 | 0.0465 | P | 1.0 |
| 5 | ☐ | 100.000 | 100.067 | 176686.94 | 0.4897 | P | 1.9 |
| 6 | ☑ | 200.000 | | 341772.42 | 0.9635 | P | 0.6 |

y = 0.0049 * x + 2.3978E-004
R = 1.0000
DL = 0.01579
BEC = 0.04902

Weight: <None>
Min Conc: <None>

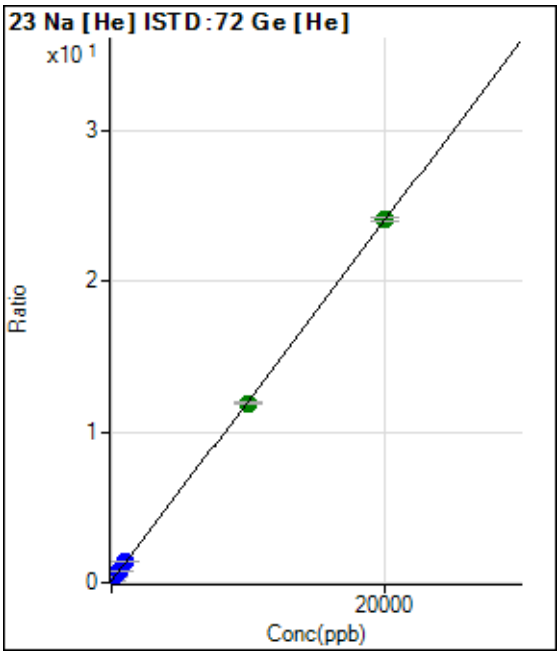
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6668.31 | 0.0174 | P | 3.4 |
| 2 | ☐ | 10.000 | 9.816 | 15914.08 | 0.0420 | P | 3.0 |
| 3 | ☐ | 25.000 | 24.645 | 29911.83 | 0.0791 | P | 0.5 |
| 4 | ☐ | 50.000 | 47.297 | 51823.53 | 0.1358 | P | 3.1 |
| 5 | ☐ | 500.000 | 500.292 | 457991.21 | 1.2692 | P | 0.6 |
| 6 | ☑ | 1000.000 | | 762386.24 | 2.1491 | A | 1.7 |

y = 0.0025 * x + 0.0174
R = 1.0000
DL = 0.7212
BEC = 6.974

Weight: <None>
Min Conc: <None>

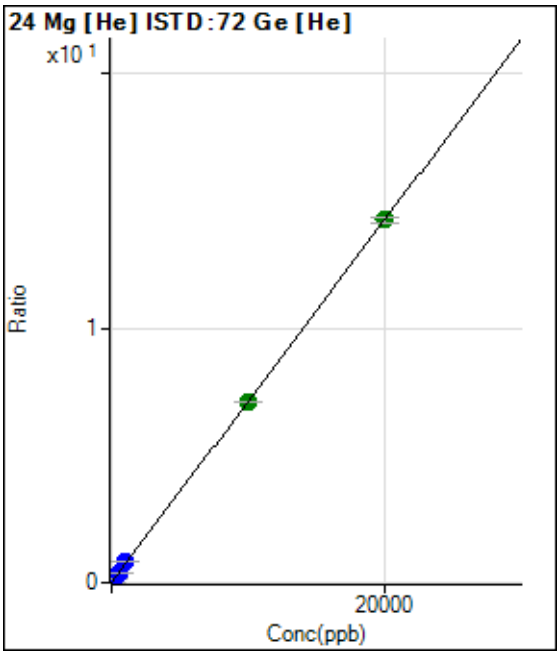



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 46591.26 | 0.1073 | P | 2.1 |
| 2 | ☐ | 200.000 | 220.066 | 161623.86 | 0.3702 | P | 1.4 |
| 3 | ☐ | 500.000 | 545.332 | 330572.32 | 0.7588 | P | 1.1 |
| 4 | ☐ | 1000.000 | 1082.094 | 609062.32 | 1.4001 | P | 0.9 |
| 5 | ☐ | 10000.000 | 9888.177 | 5144773.25 | 11.9213 | A | 0.9 |
| 6 | ☐ | 20000.000 | 20050.473 | 10129626.72 | 24.0629 | A | 1.0 |

y = 0.0012 * x + 0.1073
R = 1.0000
DL = 5.682
BEC = 89.79

Weight: <None>
Min Conc: <None>

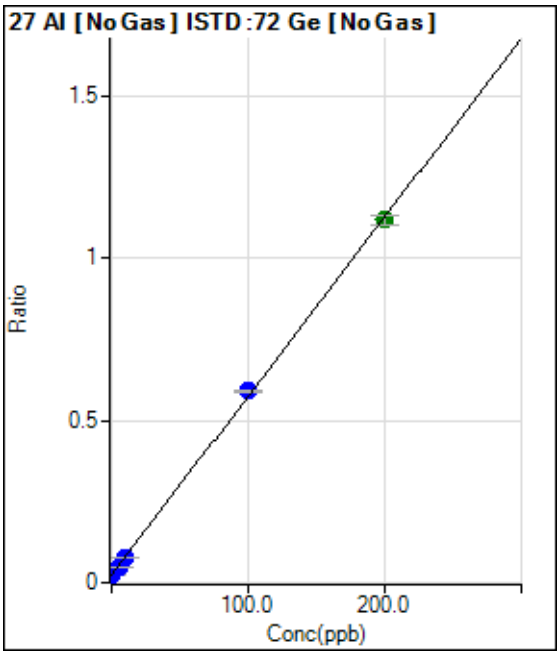
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 4220.72 | 0.0097 | P | 4.6 |
| 2 | ☐ | 200.000 | 225.584 | 74350.85 | 0.1703 | P | 0.8 |
| 3 | ☐ | 500.000 | 561.445 | 178350.08 | 0.4094 | P | 0.6 |
| 4 | ☐ | 1000.000 | 1122.476 | 351812.23 | 0.8087 | P | 0.6 |
| 5 | ☐ | 10000.000 | 9960.283 | 3063973.81 | 7.0998 | A | 0.8 |
| 6 | ☐ | 20000.000 | 20011.943 | 6000709.49 | 14.2550 | A | 1.5 |

y = 7.1184E-004 * x + 0.0097
R = 1.0000
DL = 1.896
BEC = 13.66

Weight: <None>
Min Conc: <None>

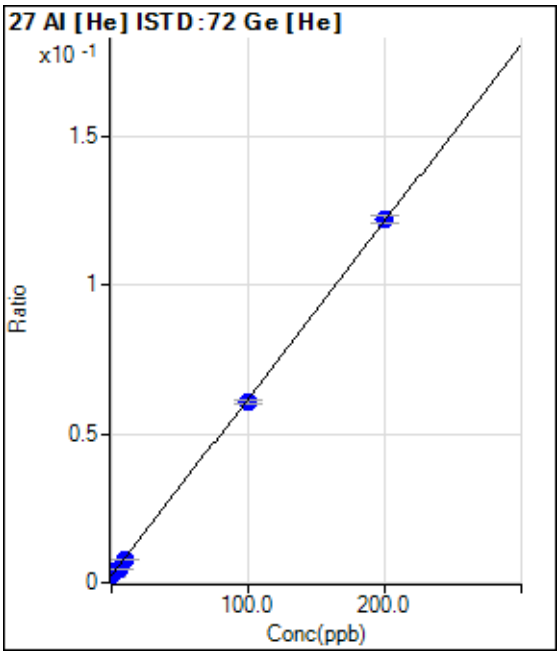



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 32611.98 | 0.0238 | P | 1.7 |
| 2 | ☐ | 2.000 | 1.766 | 46250.66 | 0.0335 | P | 3.0 |
| 3 | ☐ | 5.000 | 4.499 | 65979.65 | 0.0486 | P | 1.4 |
| 4 | ☐ | 10.000 | 9.610 | 104745.60 | 0.0767 | P | 0.7 |
| 5 | ☐ | 100.000 | 102.976 | 803151.86 | 0.5907 | P | 0.7 |
| 6 | ☐ | 200.000 | 198.546 | 1496413.10 | 1.1169 | A | 2.8 |

y = 0.0055 * x + 0.0238
R = 0.9998
DL = 0.2161
BEC = 4.328

Weight: <None>
Min Conc: <None>

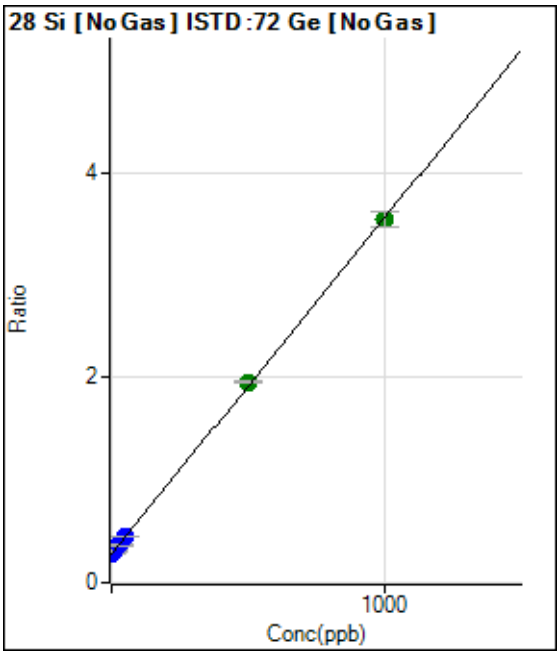
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1026.72 | 0.0024 | P | 10.1 |
| 2 | ☐ | 2.000 | 2.783 | 1756.86 | 0.0040 | P | 9.4 |
| 3 | ☐ | 5.000 | 3.802 | 2016.85 | 0.0046 | P | 3.7 |
| 4 | ☐ | 10.000 | 9.222 | 3417.16 | 0.0079 | P | 5.5 |
| 5 | ☐ | 100.000 | 98.390 | 26311.76 | 0.0610 | P | 1.9 |
| 6 | ☐ | 200.000 | 200.866 | 51355.01 | 0.1220 | P | 2.3 |

y = 5.9563E-004 * x + 0.0024
R = 0.9999
DL = 1.201
BEC = 3.971

Weight: <None>
Min Conc: <None>

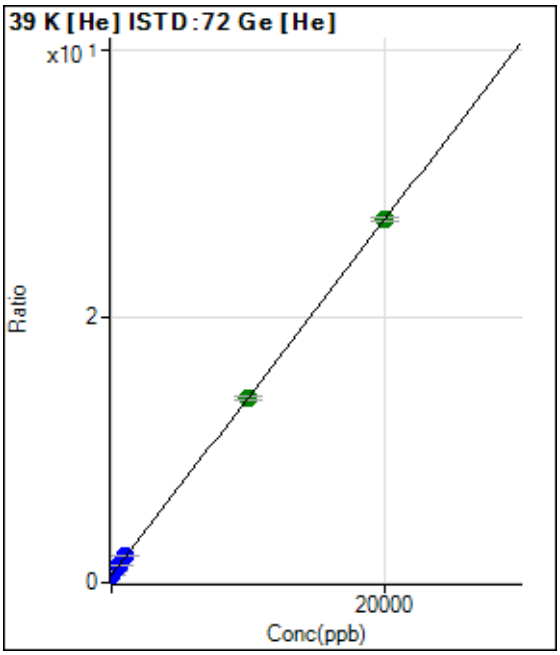



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 383503.15 | 0.2802 | P | 1.2 |
| 2 | ☐ | 10.000 | 8.377 | 424099.47 | 0.3076 | P | 2.0 |
| 3 | ☐ | 25.000 | 26.919 | 500219.34 | 0.3684 | P | 1.9 |
| 4 | ☐ | 50.000 | 52.444 | 617166.20 | 0.4521 | P | 2.1 |
| 5 | ☐ | 500.000 | 511.317 | 2660161.00 | 1.9566 | A | 0.9 |
| 6 | ☐ | 1000.000 | 994.188 | 4741350.03 | 3.5398 | A | 4.2 |

y = 0.0033 * x + 0.2802
R = 0.9999
DL = 2.974
BEC = 85.45

Weight: <None>
Min Conc: <None>

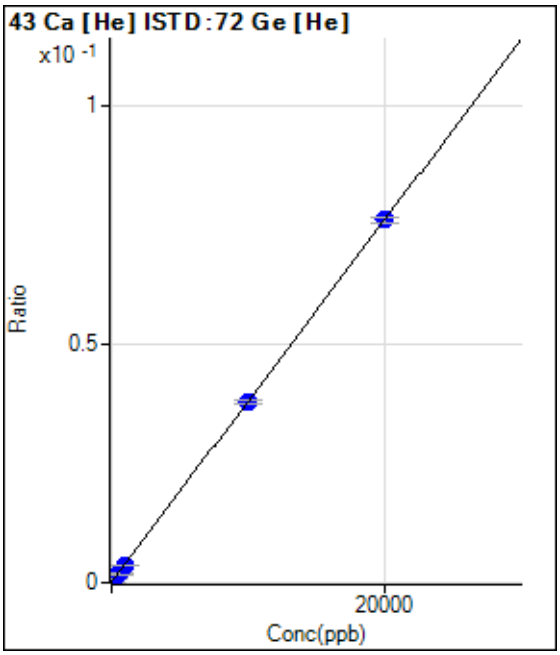
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 243635.66 | 0.5609 | P | 0.7 |
| 2 | ☐ | 200.000 | 211.110 | 367961.74 | 0.8429 | P | 1.8 |
| 3 | ☐ | 500.000 | 531.175 | 553333.72 | 1.2703 | P | 1.5 |
| 4 | ☐ | 1000.000 | 1062.978 | 861502.07 | 1.9805 | P | 0.9 |
| 5 | ☐ | 10000.000 | 10001.164 | 6006354.28 | 13.9170 | A | 2.3 |
| 6 | ☐ | 20000.000 | 19995.379 | 11477449.41 | 27.2637 | A | 1.1 |

y = 0.0013 * x + 0.5609
R = 1.0000
DL = 9.044
BEC = 420

Weight: <None>
Min Conc: <None>

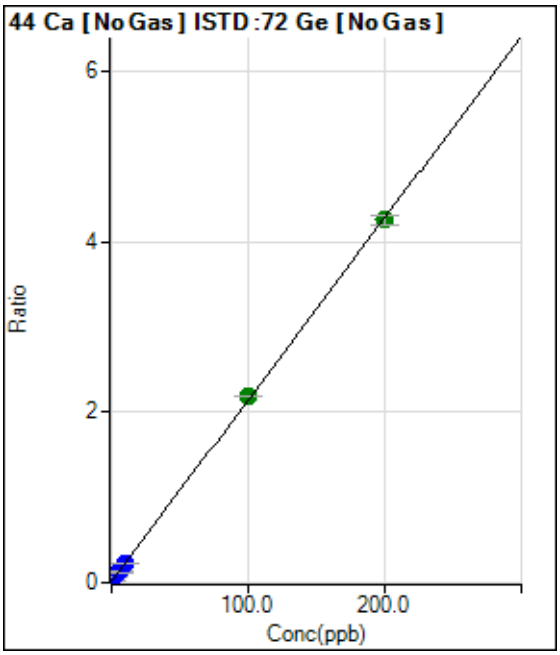



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 50.00 | 0.0001 | P | 1.0 |
| 2 | ☐ | 200.000 | 176.625 | 343.35 | 0.0008 | P | 17.8 |
| 3 | ☐ | 500.000 | 468.424 | 826.71 | 0.0019 | P | 9.3 |
| 4 | ☐ | 1000.000 | 925.294 | 1580.12 | 0.0036 | P | 3.4 |
| 5 | ☐ | 10000.000 | 9989.334 | 16436.71 | 0.0381 | P | 2.1 |
| 6 | ☐ | 20000.000 | 20010.091 | 32067.68 | 0.0762 | P | 1.4 |

y = 3.8013E-006 * x + 1.1512E-004
R = 1.0000
DL = 0.9308
BEC = 30.28

Weight: <None>
Min Conc: <None>

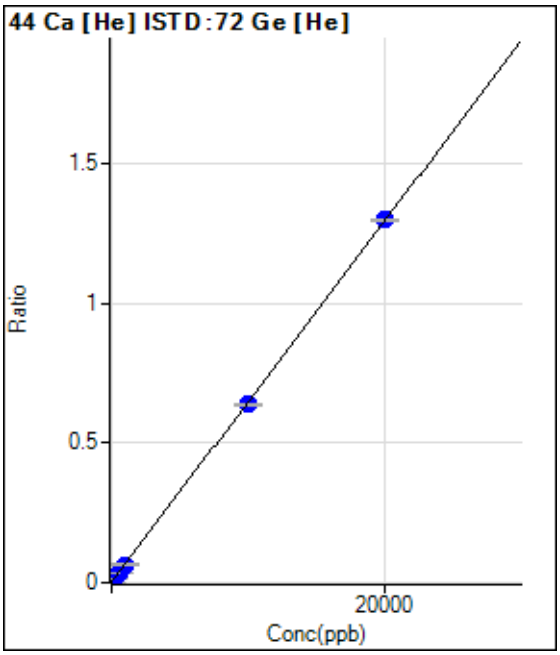
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 17454.58 | 0.0128 | P | 2.4 |
| 2 | ☐ | 2.000 | 2.131 | 80118.92 | 0.0581 | P | 3.5 |
| 3 | ☐ | 5.000 | 5.271 | 169709.19 | 0.1250 | P | 2.5 |
| 4 | ☐ | 10.000 | 10.445 | 321105.05 | 0.2352 | P | 1.1 |
| 5 | ☐ | 100.000 | 101.738 | 2963485.37 | 2.1796 | A | 0.3 |
| 6 | ☐ | 200.000 | 199.101 | 5699078.87 | 4.2533 | A | 2.4 |

y = 0.0213 * x + 0.0128
R = 0.9999
DL = 0.04351
BEC = 0.5988

Weight: <None>
Min Conc: <None>

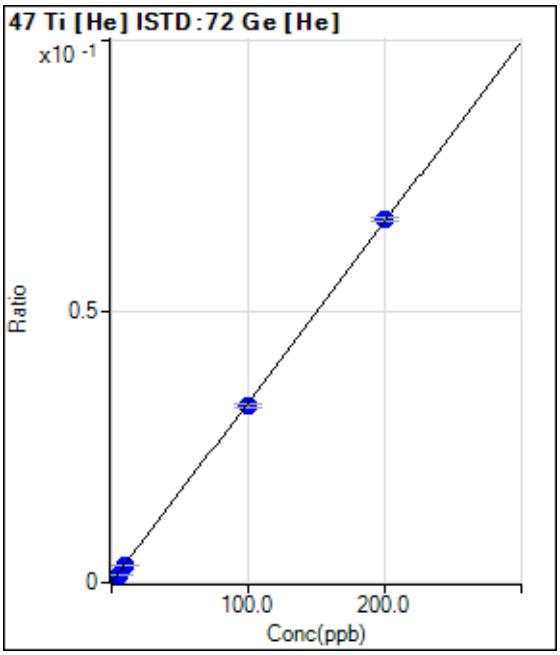



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 706.70 | 0.0016 | P | 8.9 |
| 2 | ☐ | 200.000 | 199.288 | 6331.59 | 0.0145 | P | 3.6 |
| 3 | ☐ | 500.000 | 496.838 | 14694.79 | 0.0337 | P | 3.8 |
| 4 | ☐ | 1000.000 | 978.566 | 28205.95 | 0.0649 | P | 3.2 |
| 5 | ☐ | 10000.000 | 9863.498 | 275729.40 | 0.6389 | P | 0.8 |
| 6 | ☐ | 20000.000 | 20069.409 | 546590.45 | 1.2983 | P | 0.8 |

y = 6.4611E-005 * x + 0.0016
R = 1.0000
DL = 6.722
BEC = 25.19

Weight: <None>
Min Conc: <None>

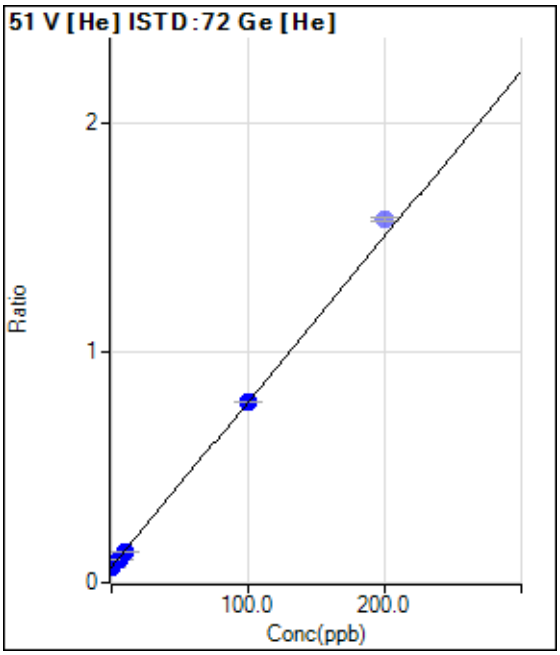
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 26.67 | 0.0001 | P | 57.0 |
| 2 | ☐ | 2.000 | 1.654 | 266.68 | 0.0006 | P | 12.3 |
| 3 | ☐ | 5.000 | 4.147 | 626.69 | 0.0014 | P | 2.8 |
| 4 | ☐ | 10.000 | 9.188 | 1353.42 | 0.0031 | P | 2.5 |
| 5 | ☐ | 100.000 | 98.002 | 14064.07 | 0.0326 | P | 2.0 |
| 6 | ☐ | 200.000 | 201.064 | 28125.78 | 0.0668 | P | 1.2 |

y = 3.3196E-004 * x + 6.1227E-005
R = 0.9999
DL = 0.3156
BEC = 0.1844

Weight: <None>
Min Conc: <None>

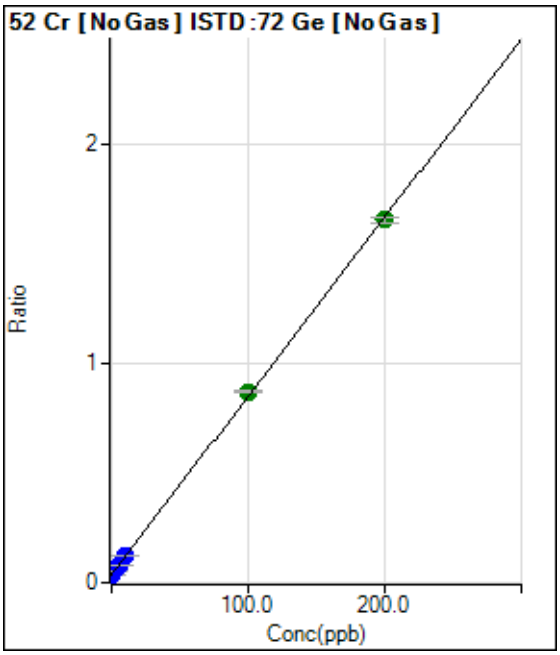



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 29625.28 | 0.0682 | P | 2.1 |
| 2 | ☐ | 2.000 | 2.138 | 36481.75 | 0.0836 | P | 0.8 |
| 3 | ☐ | 5.000 | 4.905 | 45052.64 | 0.1034 | P | 1.5 |
| 4 | ☐ | 10.000 | 9.020 | 57831.32 | 0.1329 | P | 1.3 |
| 5 | ☐ | 100.000 | 100.100 | 339463.39 | 0.7866 | P | 0.6 |
| 6 | ☑ | 200.000 | | 663371.24 | 1.5758 | P | 0.9 |

y = 0.0072 * x + 0.0682
R = 0.9999
DL = 0.6034
BEC = 9.505

Weight: <None>
Min Conc: <None>

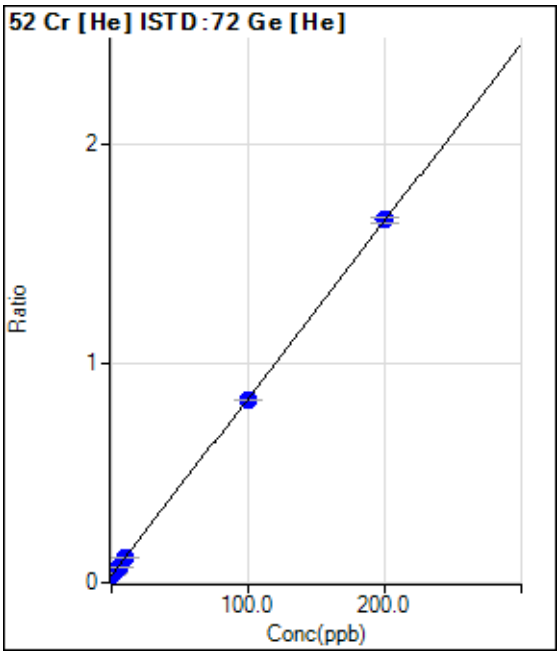
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 50677.31 | 0.0370 | P | 2.7 |
| 2 | ☐ | 2.000 | 2.095 | 74572.38 | 0.0541 | P | 1.2 |
| 3 | ☐ | 5.000 | 5.364 | 109578.38 | 0.0807 | P | 1.8 |
| 4 | ☐ | 10.000 | 10.418 | 166374.33 | 0.1219 | P | 0.8 |
| 5 | ☐ | 100.000 | 102.508 | 1185350.45 | 0.8718 | A | 0.8 |
| 6 | ☐ | 200.000 | 198.715 | 2218290.07 | 1.6553 | A | 1.8 |

y = 0.0081 * x + 0.0370
R = 0.9999
DL = 0.3639
BEC = 4.547

Weight: <None>
Min Conc: <None>

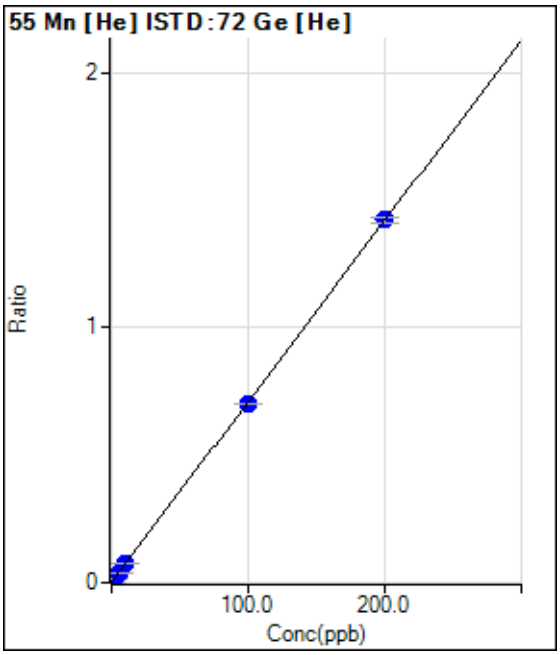



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 14417.85 | 0.0332 | P | 2.0 |
| 2 | ☐ | 2.000 | 1.712 | 20538.98 | 0.0470 | P | 2.2 |
| 3 | ☐ | 5.000 | 4.839 | 31503.34 | 0.0723 | P | 3.1 |
| 4 | ☐ | 10.000 | 9.812 | 48947.61 | 0.1126 | P | 3.7 |
| 5 | ☐ | 100.000 | 98.625 | 358532.86 | 0.8308 | P | 0.2 |
| 6 | ☐ | 200.000 | 200.704 | 697270.02 | 1.6564 | P | 1.8 |

y = 0.0081 * x + 0.0332
R = 1.0000
DL = 0.2409
BEC = 4.105

Weight: <None>
Min Conc: <None>

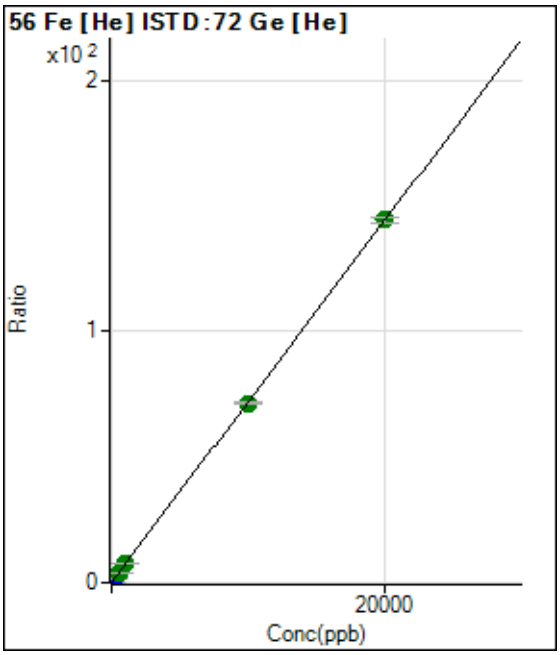
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 586.69 | 0.0013 | P | 16.8 |
| 2 | ☐ | 2.000 | 1.956 | 6638.38 | 0.0152 | P | 2.9 |
| 3 | ☐ | 5.000 | 5.023 | 16089.70 | 0.0369 | P | 0.5 |
| 4 | ☐ | 10.000 | 10.035 | 31509.85 | 0.0724 | P | 0.6 |
| 5 | ☐ | 100.000 | 98.839 | 302702.48 | 0.7015 | P | 0.6 |
| 6 | ☐ | 200.000 | 200.579 | 598668.18 | 1.4221 | P | 1.3 |

y = 0.0071 * x + 0.0013
R = 1.0000
DL = 0.09596
BEC = 0.1906

Weight: <None>
Min Conc: <None>

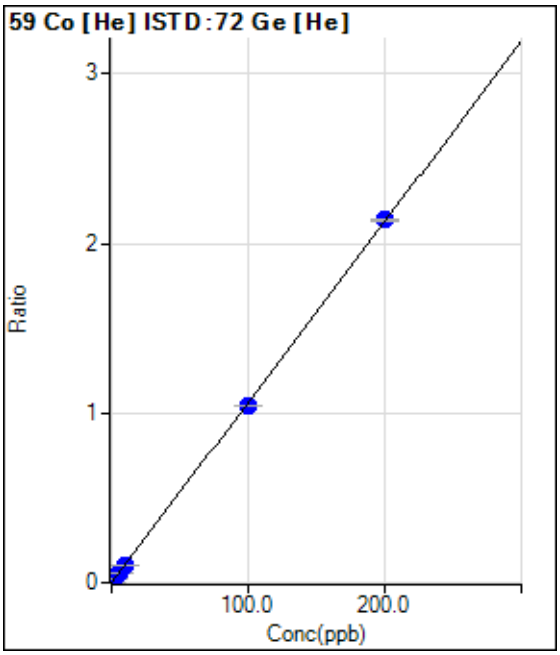



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 45984.42 | 0.1059 | P | 2.6 |
| 2 | ☐ | 200.000 | 209.354 | 704707.44 | 1.6141 | P | 0.8 |
| 3 | ☐ | 500.000 | 510.986 | 1649457.89 | 3.7871 | A | 2.4 |
| 4 | ☐ | 1000.000 | 1003.690 | 3191537.87 | 7.3366 | A | 0.6 |
| 5 | ☐ | 10000.000 | 9905.044 | 30838657.04 | 71.4634 | A | 0.7 |
| 6 | ☐ | 20000.000 | 20046.925 | 60835224.09 | 144.5272 | A | 1.9 |

y = 0.0072 * x + 0.1059
R = 1.0000
DL = 1.134
BEC = 14.7

Weight: <None>
Min Conc: <None>

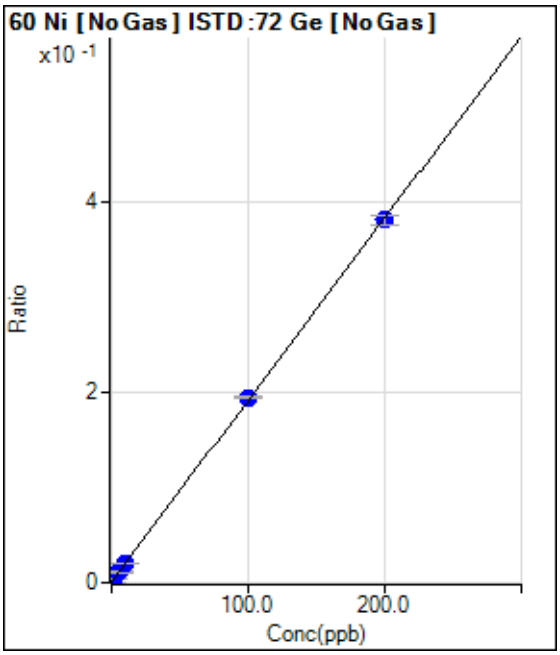
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 53.33 | 0.0001 | P | 28.8 |
| 2 | ☐ | 2.000 | 2.054 | 9596.87 | 0.0220 | P | 2.7 |
| 3 | ☐ | 5.000 | 5.069 | 23554.05 | 0.0541 | P | 3.7 |
| 4 | ☐ | 10.000 | 9.882 | 45800.60 | 0.1053 | P | 1.4 |
| 5 | ☐ | 100.000 | 97.923 | 449795.70 | 1.0423 | P | 0.6 |
| 6 | ☐ | 200.000 | 201.042 | 900779.41 | 2.1397 | P | 0.4 |

y = 0.0106 * x + 1.2286E-004
R = 0.9999
DL = 0.009968
BEC = 0.01154

Weight: <None>
Min Conc: <None>

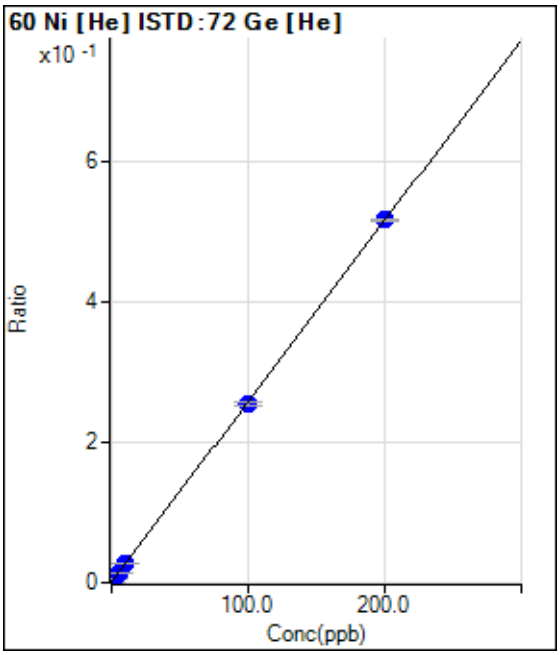



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1123.40 | 0.0008 | P | 7.9 |
| 2 | ☐ | 2.000 | 2.073 | 6578.36 | 0.0048 | P | 5.5 |
| 3 | ☐ | 5.000 | 5.404 | 15108.65 | 0.0111 | P | 5.3 |
| 4 | ☐ | 10.000 | 10.268 | 27862.04 | 0.0204 | P | 3.4 |
| 5 | ☐ | 100.000 | 101.563 | 264514.92 | 0.1946 | P | 1.2 |
| 6 | ☐ | 200.000 | 199.194 | 510197.21 | 0.3808 | P | 2.8 |

y = 0.0019 * x + 8.2118E-004
R = 1.0000
DL = 0.1026
BEC = 0.4305

Weight: <None>
Min Conc: <None>

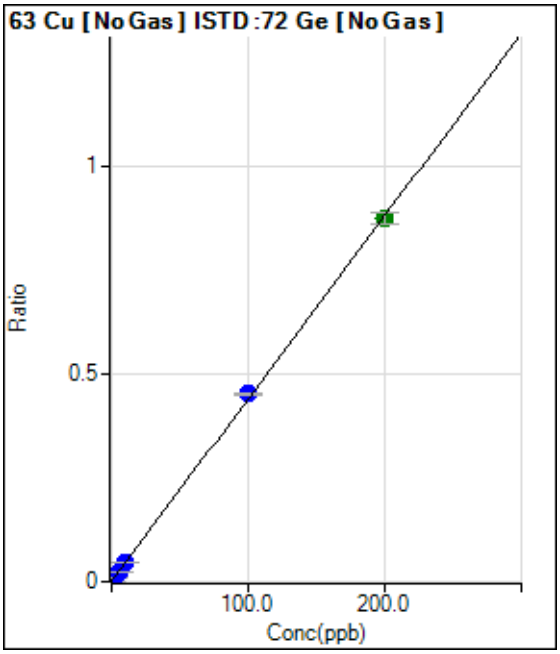
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 430.01 | 0.0010 | P | 19.5 |
| 2 | ☐ | 2.000 | 2.089 | 2780.35 | 0.0064 | P | 4.2 |
| 3 | ☐ | 5.000 | 4.957 | 5984.75 | 0.0138 | P | 8.3 |
| 4 | ☐ | 10.000 | 10.165 | 11815.33 | 0.0272 | P | 0.4 |
| 5 | ☐ | 100.000 | 99.015 | 110438.46 | 0.2559 | P | 2.3 |
| 6 | ☐ | 200.000 | 200.484 | 217689.80 | 0.5171 | P | 0.6 |

y = 0.0026 * x + 9.8962E-004
R = 1.0000
DL = 0.2245
BEC = 0.3844

Weight: <None>
Min Conc: <None>

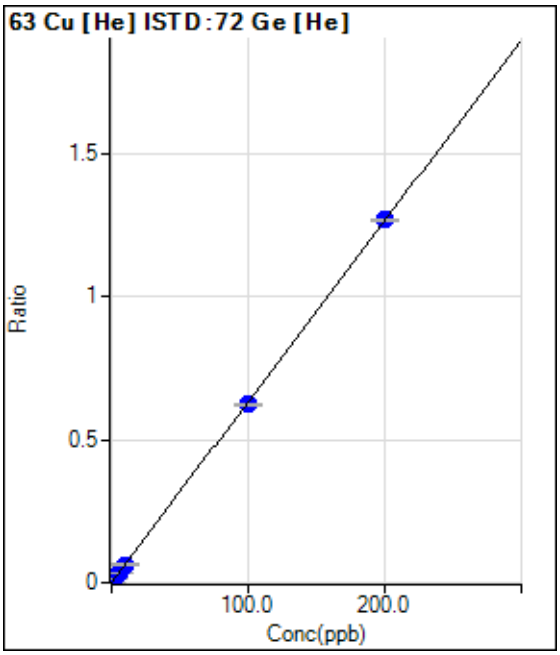



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1090.06 | 0.0008 | P | 14.1 |
| 2 | ☐ | 2.000 | 2.151 | 14147.59 | 0.0103 | P | 2.2 |
| 3 | ☐ | 5.000 | 5.311 | 32819.90 | 0.0242 | P | 2.1 |
| 4 | ☐ | 10.000 | 10.435 | 63786.06 | 0.0467 | P | 0.7 |
| 5 | ☐ | 100.000 | 102.875 | 616693.68 | 0.4536 | P | 1.1 |
| 6 | ☐ | 200.000 | 198.531 | 1171739.83 | 0.8746 | A | 3.2 |

y = 0.0044 * x + 7.9676E-004
R = 0.9999
DL = 0.07651
BEC = 0.181

Weight: <None>
Min Conc: <None>

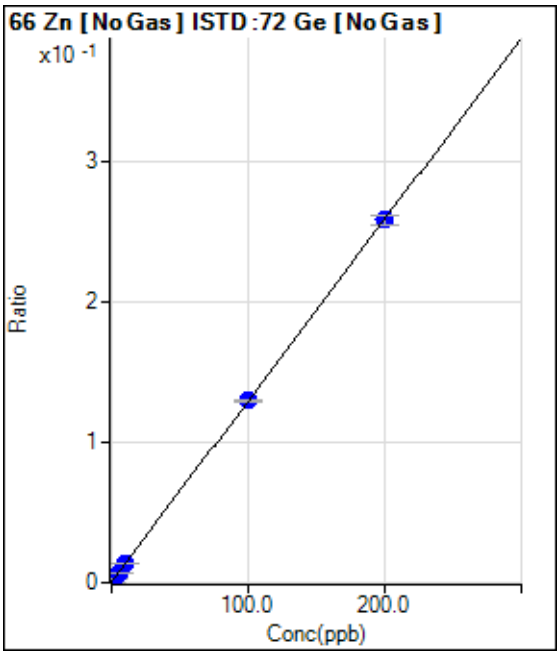
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 226.67 | 0.0005 | P | 45.1 |
| 2 | ☐ | 2.000 | 2.080 | 5971.41 | 0.0137 | P | 5.0 |
| 3 | ☐ | 5.000 | 5.012 | 14030.77 | 0.0322 | P | 5.6 |
| 4 | ☐ | 10.000 | 9.973 | 27671.81 | 0.0636 | P | 1.9 |
| 5 | ☐ | 100.000 | 98.633 | 269514.39 | 0.6245 | P | 1.3 |
| 6 | ☐ | 200.000 | 200.684 | 534684.00 | 1.2701 | P | 0.8 |

y = 0.0063 * x + 5.2130E-004
R = 1.0000
DL = 0.1115
BEC = 0.0824

Weight: <None>
Min Conc: <None>

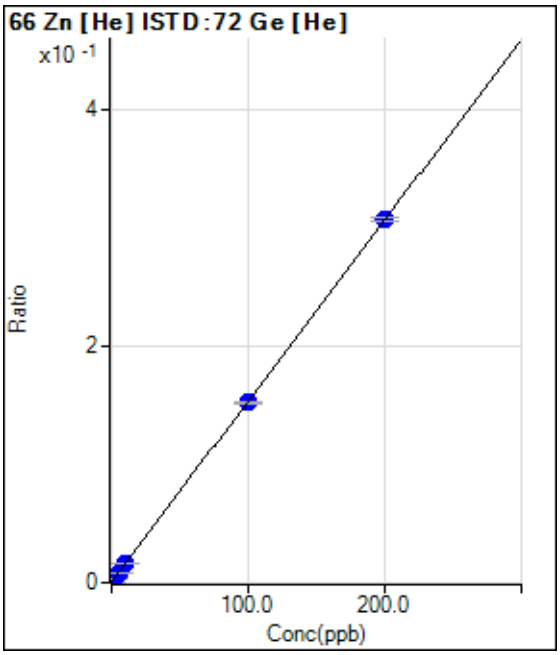



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 656.69 | 0.0005 | P | 5.0 |
| 2 | ☐ | 2.000 | 2.101 | 4404.13 | 0.0032 | P | 4.1 |
| 3 | ☐ | 5.000 | 5.194 | 9763.68 | 0.0072 | P | 2.7 |
| 4 | ☐ | 10.000 | 10.048 | 18379.41 | 0.0135 | P | 3.4 |
| 5 | ☐ | 100.000 | 100.308 | 176877.90 | 0.1301 | P | 1.1 |
| 6 | ☐ | 200.000 | 199.838 | 346655.59 | 0.2587 | P | 2.7 |

y = 0.0013 * x + 4.7955E-004
R = 1.0000
DL = 0.05602
BEC = 0.3711

Weight: <None>
Min Conc: <None>

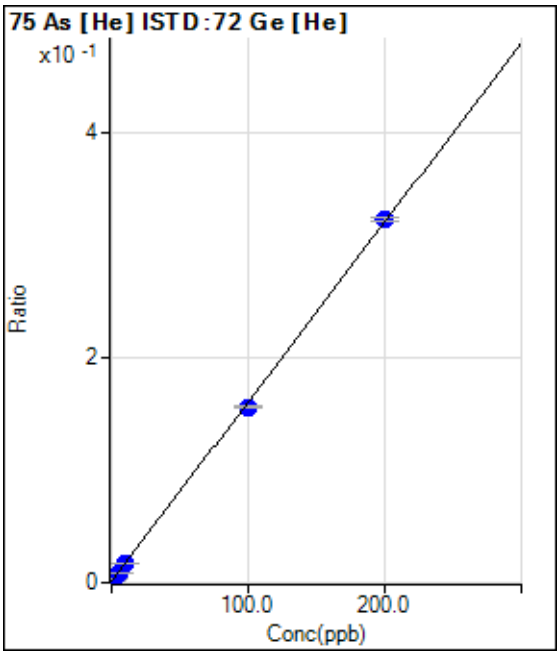
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 266.67 | 0.0006 | P | 38.6 |
| 2 | ☐ | 2.000 | 1.811 | 1476.77 | 0.0034 | P | 16.0 |
| 3 | ☐ | 5.000 | 4.769 | 3443.84 | 0.0079 | P | 0.7 |
| 4 | ☐ | 10.000 | 9.846 | 6815.18 | 0.0157 | P | 2.0 |
| 5 | ☐ | 100.000 | 99.398 | 65829.96 | 0.1526 | P | 1.0 |
| 6 | ☐ | 200.000 | 200.316 | 129164.69 | 0.3068 | P | 1.2 |

y = 0.0015 * x + 6.1553E-004
R = 1.0000
DL = 0.4664
BEC = 0.4027

Weight: <None>
Min Conc: <None>

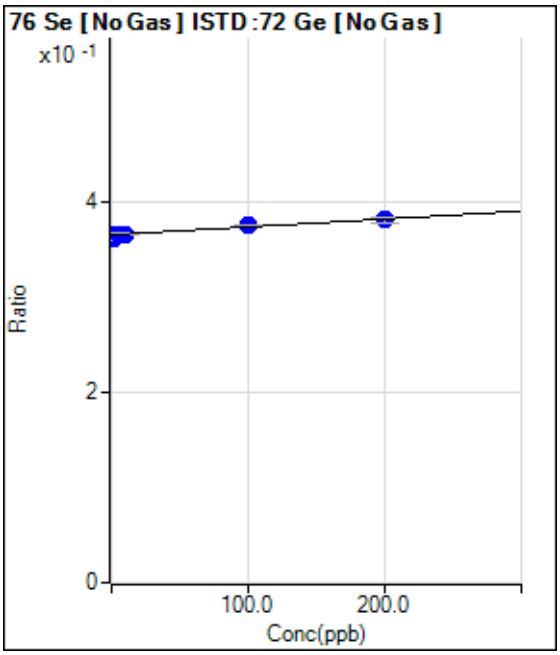



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 487.79 | 0.0011 | P | 3.1 |
| 2 | ☐ | 2.000 | 1.807 | 1747.90 | 0.0040 | P | 0.9 |
| 3 | ☐ | 5.000 | 4.804 | 3826.12 | 0.0088 | P | 2.8 |
| 4 | ☐ | 10.000 | 9.732 | 7238.64 | 0.0166 | P | 2.2 |
| 5 | ☐ | 100.000 | 97.229 | 67370.34 | 0.1561 | P | 0.4 |
| 6 | ☐ | 200.000 | 201.406 | 135628.21 | 0.3222 | P | 1.2 |

y = 0.0016 * x + 0.0011
R = 0.9999
DL = 0.06571
BEC = 0.7046

Weight: <None>
Min Conc: <None>

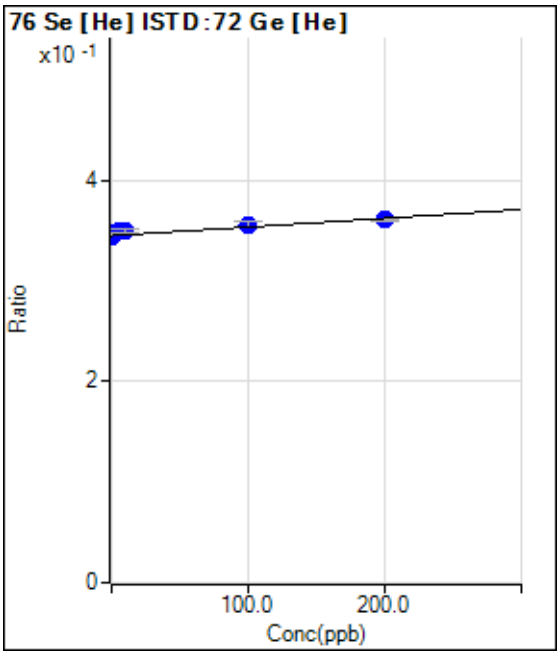
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 500798.13 | 0.3658 | P | 0.6 |
| 2 | ☐ | 2.000 | -41.179 | 499646.87 | 0.3624 | P | 1.4 |
| 3 | ☐ | 5.000 | 1.637 | 496983.51 | 0.3660 | P | 0.3 |
| 4 | ☐ | 10.000 | 8.383 | 500371.20 | 0.3665 | P | 0.4 |
| 5 | ☐ | 100.000 | 125.709 | 511645.08 | 0.3763 | P | 0.2 |
| 6 | ☐ | 200.000 | 187.742 | 511200.25 | 0.3815 | P | 1.9 |

y = 8.3267E-005 * x + 0.3658
R = 0.9693
DL = 74.54
BEC = 4394

Weight: <None>
Min Conc: <None>

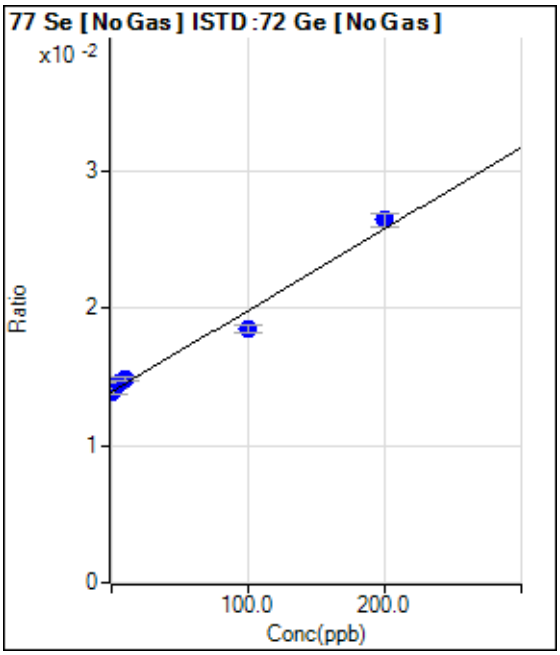



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 149977.15 | 0.3453 | P | 1.3 |
| 2 | ☐ | 2.000 | 28.737 | 151867.13 | 0.3478 | P | 1.2 |
| 3 | ☐ | 5.000 | 54.264 | 152470.54 | 0.3500 | P | 1.7 |
| 4 | ☐ | 10.000 | 52.640 | 152198.10 | 0.3499 | P | 1.2 |
| 5 | ☐ | 100.000 | 131.123 | 153954.59 | 0.3567 | P | 1.6 |
| 6 | ☐ | 200.000 | 180.807 | 151989.18 | 0.3610 | P | 0.8 |

y = 8.7029E-005 * x + 0.3453
R = 0.9549
DL = 150.5
BEC = 3968

Weight: <None>
Min Conc: <None>

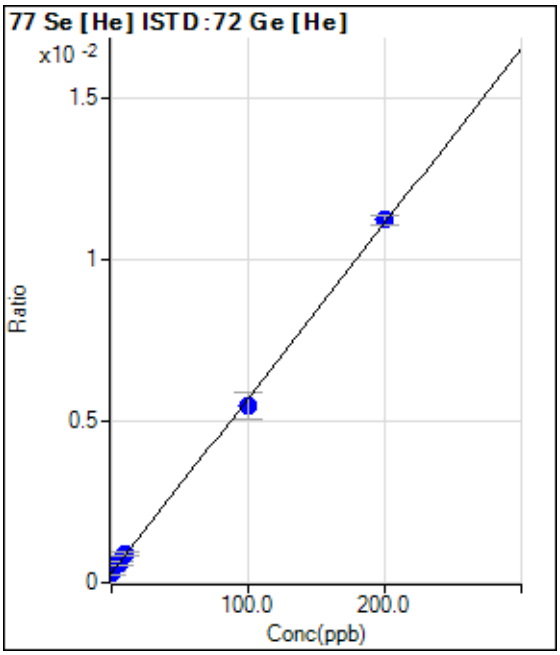
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 19063.86 | 0.0139 | P | 3.2 |
| 2 | ☐ | 2.000 | 0.895 | 19270.62 | 0.0140 | P | 3.3 |
| 3 | ☐ | 5.000 | 12.311 | 19904.99 | 0.0147 | P | 0.7 |
| 4 | ☐ | 10.000 | 15.330 | 20258.82 | 0.0148 | P | 1.8 |
| 5 | ☐ | 100.000 | 77.428 | 25193.90 | 0.0185 | P | 2.6 |
| 6 | ☐ | 200.000 | 210.848 | 35467.00 | 0.0265 | P | 3.5 |

y = 5.9487E-005 * x + 0.0139
R = 0.9895
DL = 22.25
BEC = 234.1

Weight: <None>
Min Conc: <None>

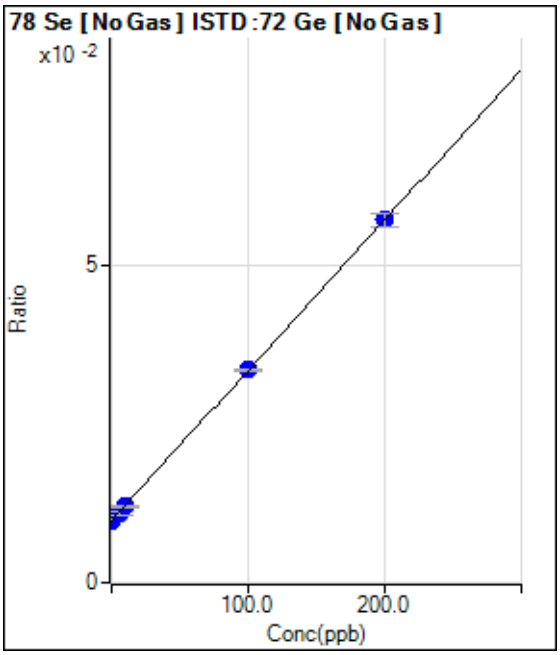



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 130.00 | 0.0003 | P | 22.6 |
| 2 | ☐ | 2.000 | 4.065 | 226.68 | 0.0005 | P | 9.7 |
| 3 | ☐ | 5.000 | 5.497 | 260.01 | 0.0006 | P | 18.0 |
| 4 | ☐ | 10.000 | 10.877 | 386.68 | 0.0009 | P | 13.7 |
| 5 | ☐ | 100.000 | 95.880 | 2370.25 | 0.0055 | P | 15.0 |
| 6 | ☐ | 200.000 | 201.983 | 4734.24 | 0.0112 | P | 2.8 |

y = 5.4184E-005 * x + 2.9911E-004
R = 0.9996
DL = 3.735
BEC = 5.52

Weight: <None>
Min Conc: <None>

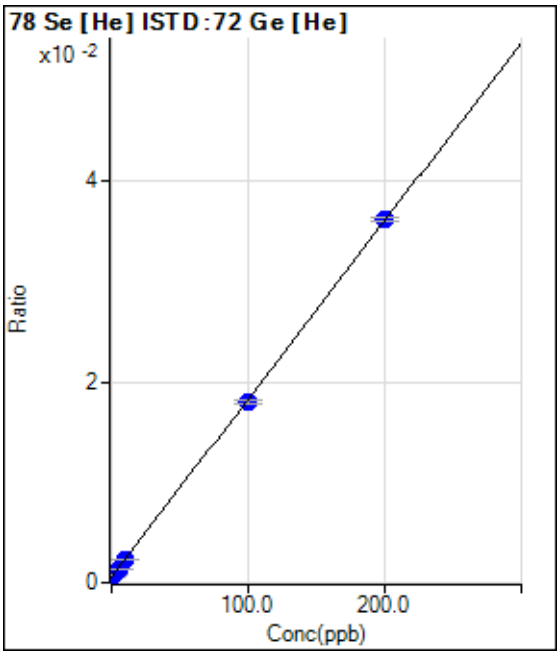
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 13396.89 | 0.0098 | P | 2.7 |
| 2 | ☐ | 2.000 | 1.538 | 13987.49 | 0.0101 | P | 3.2 |
| 3 | ☐ | 5.000 | 4.552 | 14748.31 | 0.0109 | P | 4.4 |
| 4 | ☐ | 10.000 | 9.277 | 16353.48 | 0.0120 | P | 1.1 |
| 5 | ☐ | 100.000 | 100.127 | 45517.22 | 0.0335 | P | 0.8 |
| 6 | ☐ | 200.000 | 199.988 | 76496.47 | 0.0571 | P | 3.4 |

y = 2.3660E-004 * x + 0.0098
R = 1.0000
DL = 3.383
BEC = 41.36

Weight: <None>
Min Conc: <None>

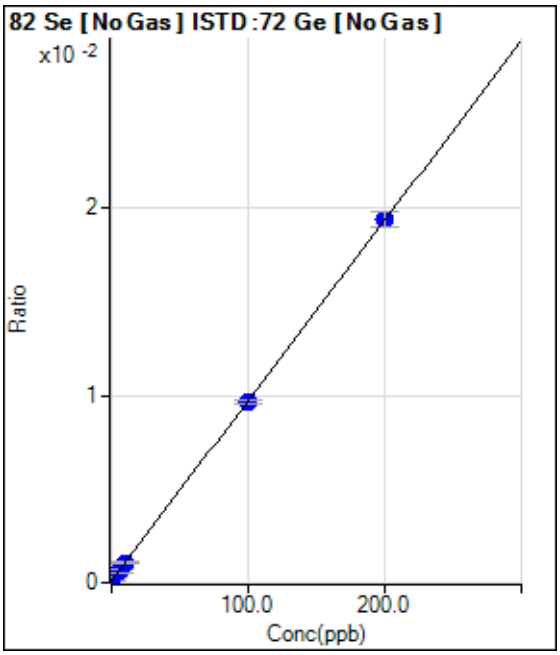



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 245.33 | 0.0006 | P | 2.0 |
| 2 | ☐ | 2.000 | 1.355 | 351.34 | 0.0008 | P | 2.7 |
| 3 | ☐ | 5.000 | 4.809 | 617.35 | 0.0014 | P | 1.4 |
| 4 | ☐ | 10.000 | 9.783 | 1000.04 | 0.0023 | P | 4.4 |
| 5 | ☐ | 100.000 | 98.731 | 7790.27 | 0.0181 | P | 1.8 |
| 6 | ☐ | 200.000 | 200.657 | 15200.55 | 0.0361 | P | 0.9 |

y = 1.7714E-004 * x + 5.6489E-004
R = 1.0000
DL = 0.1933
BEC = 3.189

Weight: <None>
Min Conc: <None>

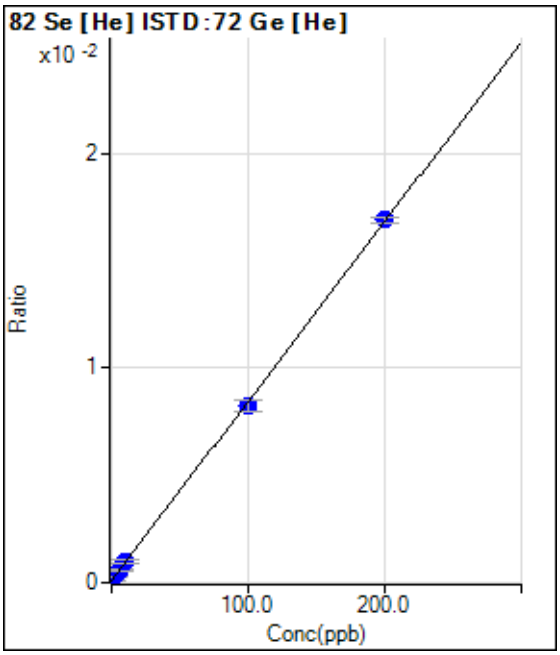
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 158.72 | 0.0001 | P | 49.9 |
| 2 | ☐ | 2.000 | 2.568 | 499.27 | 0.0004 | P | 19.2 |
| 3 | ☐ | 5.000 | 5.204 | 838.85 | 0.0006 | P | 26.7 |
| 4 | ☐ | 10.000 | 10.005 | 1472.39 | 0.0011 | P | 3.2 |
| 5 | ☐ | 100.000 | 99.265 | 13148.91 | 0.0097 | P | 2.6 |
| 6 | ☐ | 200.000 | 200.356 | 25984.38 | 0.0194 | P | 4.2 |

y = 9.6243E-005 * x + 1.1571E-004
R = 1.0000
DL = 1.8
BEC = 1.202

Weight: <None>
Min Conc: <None>

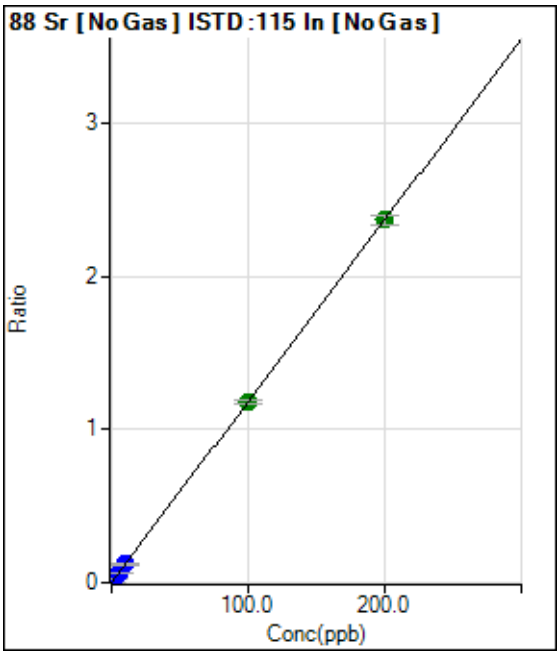



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 40.00 | 0.0001 | P | 42.7 |
| 2 | ☐ | 2.000 | 2.104 | 116.67 | 0.0003 | P | 28.3 |
| 3 | ☐ | 5.000 | 5.502 | 240.01 | 0.0006 | P | 12.8 |
| 4 | ☐ | 10.000 | 10.645 | 426.68 | 0.0010 | P | 14.4 |
| 5 | ☐ | 100.000 | 97.612 | 3560.54 | 0.0082 | P | 7.2 |
| 6 | ☐ | 200.000 | 201.148 | 7115.33 | 0.0169 | P | 1.7 |

y = 8.3577E-005 * x + 9.1851E-005
R = 0.9999
DL = 1.409
BEC = 1.099

Weight: <None>
Min Conc: <None>

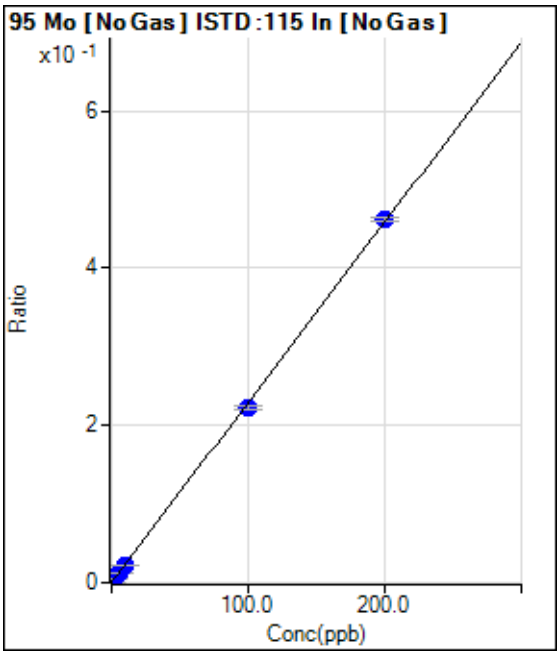
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1363.43 | 0.0009 | P | 8.6 |
| 2 | ☐ | 2.000 | 2.062 | 39715.93 | 0.0253 | P | 2.9 |
| 3 | ☐ | 5.000 | 5.197 | 96472.05 | 0.0623 | P | 1.6 |
| 4 | ☐ | 10.000 | 10.130 | 189938.47 | 0.1207 | P | 2.5 |
| 5 | ☐ | 100.000 | 99.619 | 1828631.54 | 1.1788 | A | 1.3 |
| 6 | ☐ | 200.000 | 200.178 | 3550388.38 | 2.3678 | A | 2.6 |

y = 0.0118 * x + 8.7790E-004
R = 1.0000
DL = 0.01917
BEC = 0.07425

Weight: <None>
Min Conc: <None>

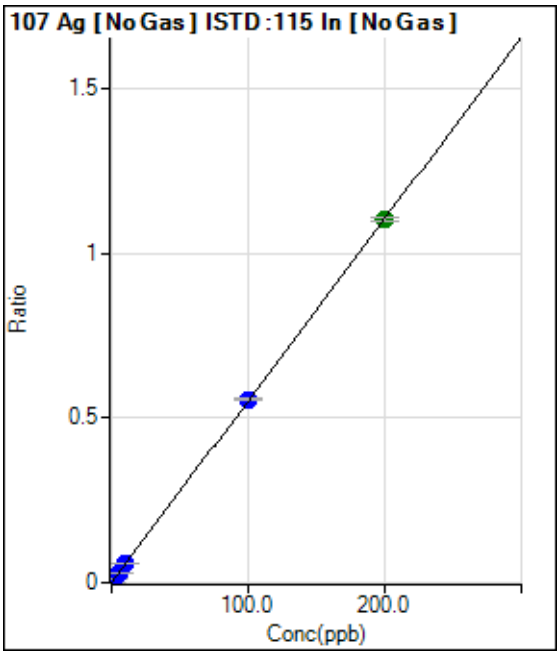



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 650.03 | 0.0004 | P | 18.7 |
| 2 | ☐ | 2.000 | 1.882 | 7435.55 | 0.0047 | P | 4.1 |
| 3 | ☐ | 5.000 | 4.853 | 17845.60 | 0.0115 | P | 2.4 |
| 4 | ☐ | 10.000 | 9.574 | 35159.98 | 0.0223 | P | 3.7 |
| 5 | ☐ | 100.000 | 97.288 | 346132.56 | 0.2231 | P | 2.1 |
| 6 | ☐ | 200.000 | 201.382 | 692097.88 | 0.4615 | P | 1.1 |

y = 0.0023 * x + 4.1934E-004
R = 0.9999
DL = 0.1028
BEC = 0.1832

Weight: <None>
Min Conc: <None>

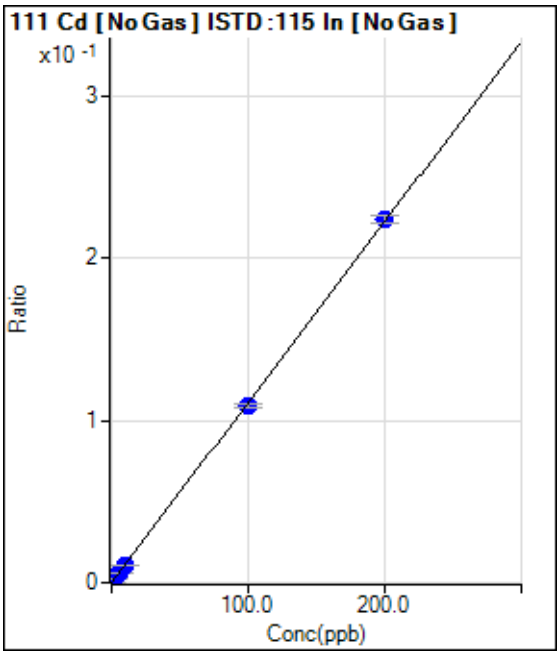
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 700.03 | 0.0005 | P | 10.6 |
| 2 | ☐ | 2.000 | 1.953 | 17675.43 | 0.0112 | P | 2.3 |
| 3 | ☐ | 5.000 | 5.143 | 44669.02 | 0.0289 | P | 3.3 |
| 4 | ☐ | 10.000 | 10.132 | 88836.91 | 0.0564 | P | 1.8 |
| 5 | ☐ | 100.000 | 100.837 | 864873.35 | 0.5575 | P | 1.7 |
| 6 | ☐ | 200.000 | 199.572 | 1654331.64 | 1.1030 | A | 1.0 |

y = 0.0055 * x + 4.5064E-004
R = 1.0000
DL = 0.02589
BEC = 0.08157

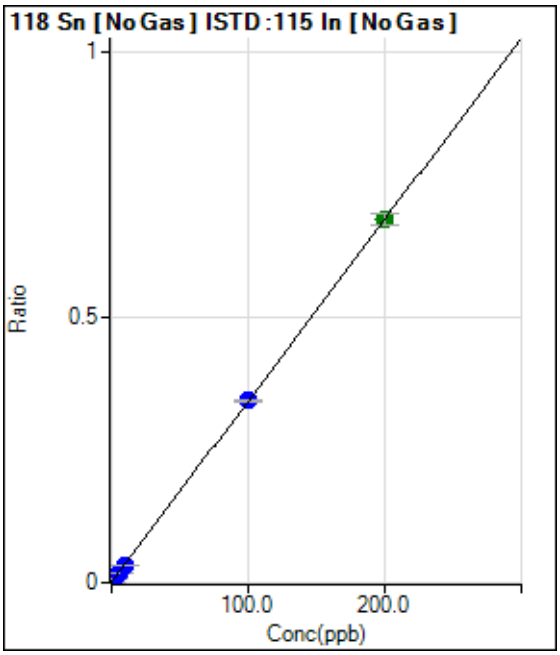
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | -7.40 | 0.0000 | P | -86.7 |
| 2 | ☐ | 2.000 | 1.937 | 3380.87 | 0.0021 | P | 3.9 |
| 3 | ☐ | 5.000 | 5.025 | 8641.10 | 0.0056 | P | 1.8 |
| 4 | ☐ | 10.000 | 9.700 | 16974.29 | 0.0108 | P | 1.7 |
| 5 | ☐ | 100.000 | 97.892 | 168839.82 | 0.1088 | P | 1.9 |
| 6 | ☐ | 200.000 | 201.069 | 335252.45 | 0.2236 | P | 2.2 |

y = 0.0011 * x - 4.7487E-006
R = 0.9999
DL = 0.0111
BEC = -0.004271

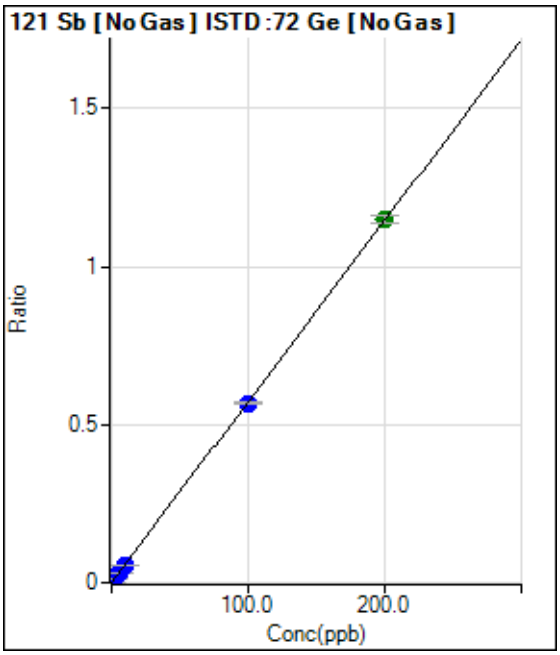
Weight: <None>
Min Conc: <None>




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1203.41 | 0.0008 | P | 5.9 |
| 2 | ☐ | 2.000 | 1.907 | 11475.23 | 0.0073 | P | 1.3 |
| 3 | ☐ | 5.000 | 4.881 | 27028.27 | 0.0175 | P | 0.5 |
| 4 | ☐ | 10.000 | 9.779 | 53867.24 | 0.0342 | P | 0.3 |
| 5 | ☐ | 100.000 | 100.102 | 532044.37 | 0.3430 | P | 1.8 |
| 6 | ☐ | 200.000 | 199.964 | 1026190.69 | 0.6844 | A | 3.1 |

y = 0.0034 * x + 7.7530E-004
R = 1.0000
DL = 0.04003
BEC = 0.2268

Weight: <None>
Min Conc: <None>

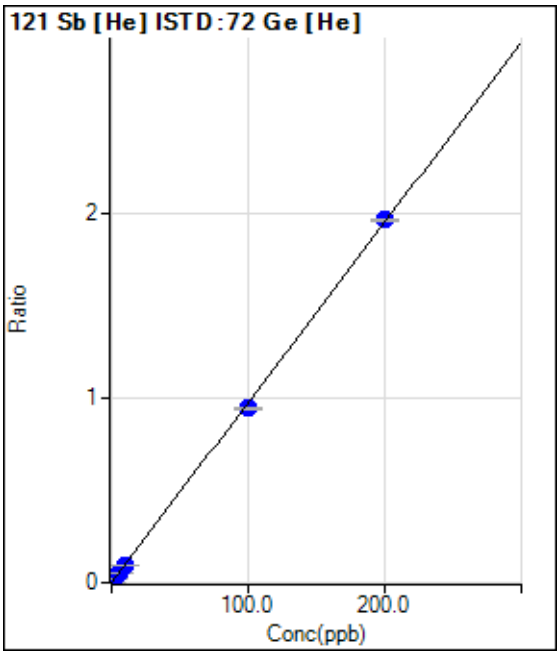



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 613.36 | 0.0004 | P | 8.6 |
| 2 | ☐ | 2.000 | 1.873 | 15382.61 | 0.0112 | P | 3.2 |
| 3 | ☐ | 5.000 | 4.933 | 38914.64 | 0.0287 | P | 2.5 |
| 4 | ☐ | 10.000 | 9.876 | 77732.58 | 0.0569 | P | 1.2 |
| 5 | ☐ | 100.000 | 99.055 | 770959.57 | 0.5671 | P | 0.9 |
| 6 | ☐ | 200.000 | 200.482 | 1537408.36 | 1.1472 | A | 2.1 |

y = 0.0057 * x + 4.4838E-004
R = 1.0000
DL = 0.02015
BEC = 0.07839

Weight: <None>
Min Conc: <None>

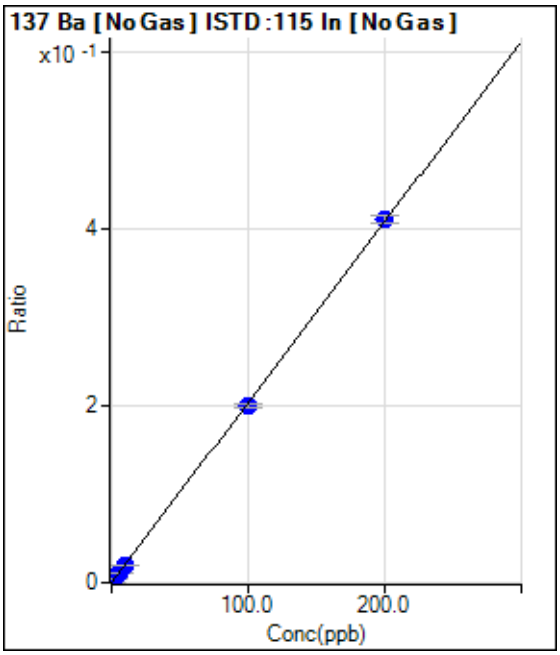
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 323.35 | 0.0007 | P | 37.4 |
| 2 | ☐ | 2.000 | 1.848 | 8192.70 | 0.0188 | P | 3.9 |
| 3 | ☐ | 5.000 | 4.785 | 20649.91 | 0.0474 | P | 1.4 |
| 4 | ☐ | 10.000 | 9.708 | 41495.95 | 0.0954 | P | 4.2 |
| 5 | ☐ | 100.000 | 97.031 | 408612.73 | 0.9468 | P | 1.1 |
| 6 | ☐ | 200.000 | 201.506 | 827434.44 | 1.9655 | P | 0.8 |

y = 0.0098 * x + 7.4473E-004
R = 0.9998
DL = 0.08578
BEC = 0.07638

Weight: <None>
Min Conc: <None>

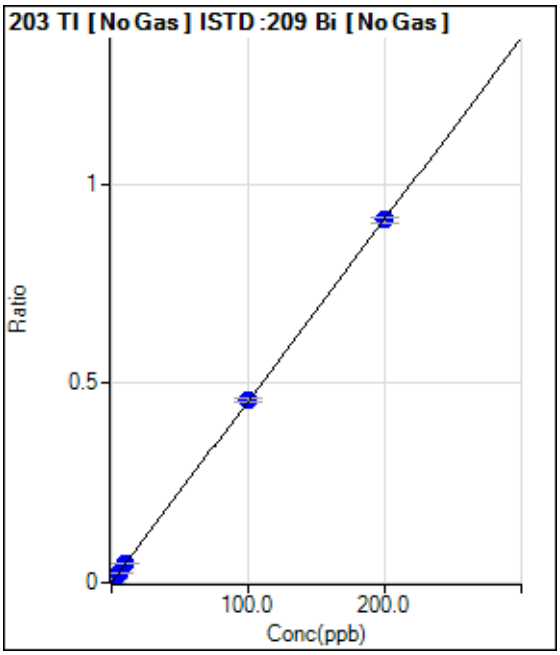



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 150.00 | 0.0001 | P | 18.4 |
| 2 | ☐ | 2.000 | 1.828 | 6008.15 | 0.0038 | P | 8.3 |
| 3 | ☐ | 5.000 | 4.874 | 15522.87 | 0.0100 | P | 2.7 |
| 4 | ☐ | 10.000 | 9.682 | 31211.18 | 0.0198 | P | 2.7 |
| 5 | ☐ | 100.000 | 97.755 | 309132.90 | 0.1993 | P | 2.6 |
| 6 | ☐ | 200.000 | 201.143 | 614806.46 | 0.4100 | P | 2.0 |

y = 0.0020 * x + 9.6727E-005
R = 0.9999
DL = 0.02618
BEC = 0.04747

Weight: <None>
Min Conc: <None>

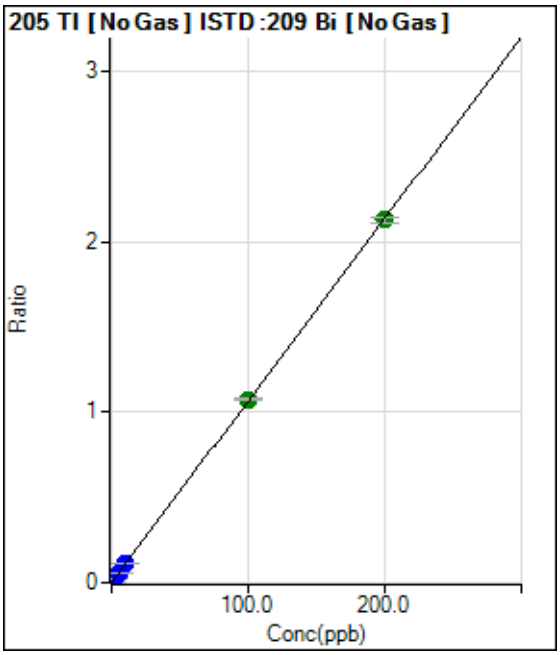
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 173.34 | 0.0002 | P | 27.3 |
| 2 | ☐ | 2.000 | 2.229 | 11088.46 | 0.0103 | P | 3.9 |
| 3 | ☐ | 5.000 | 5.382 | 26728.97 | 0.0247 | P | 1.2 |
| 4 | ☐ | 10.000 | 10.436 | 52209.10 | 0.0477 | P | 2.7 |
| 5 | ☐ | 100.000 | 100.402 | 499334.39 | 0.4572 | P | 2.1 |
| 6 | ☐ | 200.000 | 199.765 | 983252.22 | 0.9095 | P | 1.3 |

y = 0.0046 * x + 1.6022E-004
R = 1.0000
DL = 0.02877
BEC = 0.0352

Weight: <None>
Min Conc: <None>

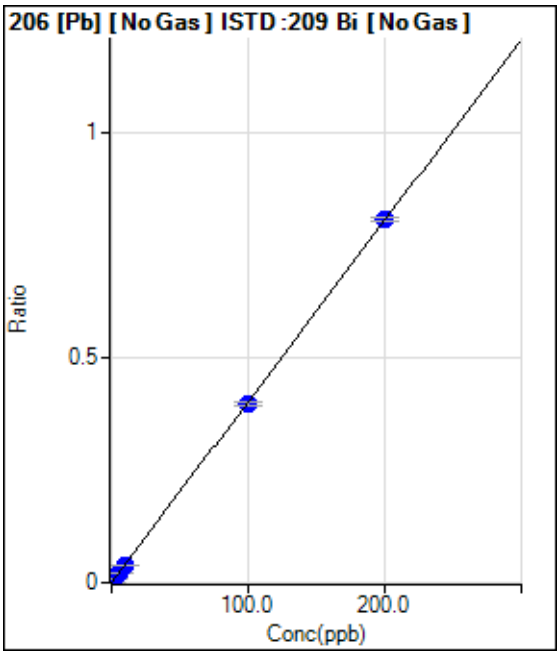



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 473.35 | 0.0004 | P | 19.3 |
| 2 | ☐ | 2.000 | 2.146 | 25132.25 | 0.0234 | P | 0.9 |
| 3 | ☐ | 5.000 | 5.392 | 62898.21 | 0.0580 | P | 1.2 |
| 4 | ☐ | 10.000 | 10.342 | 121443.72 | 0.1109 | P | 1.8 |
| 5 | ☐ | 100.000 | 100.833 | 1176736.13 | 1.0773 | A | 1.3 |
| 6 | ☐ | 200.000 | 199.555 | 2304287.26 | 2.1316 | A | 1.4 |

y = 0.0107 * x + 4.3774E-004
R = 1.0000
DL = 0.02369
BEC = 0.04099

Weight: <None>
Min Conc: <None>

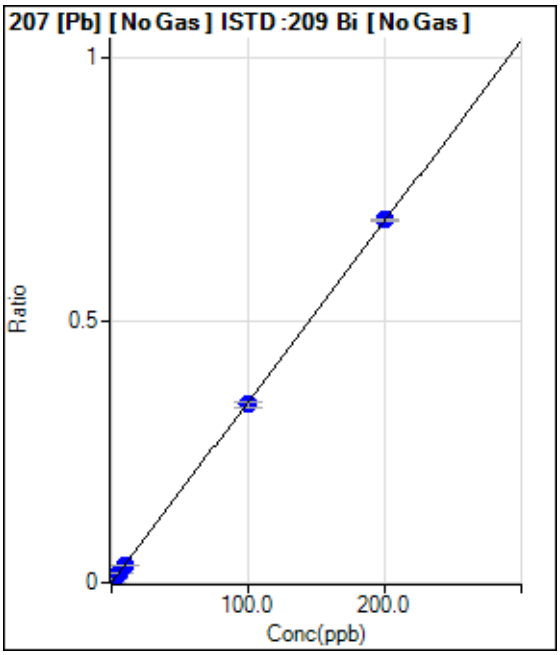
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 206.67 | 0.0002 | P | 8.8 |
| 2 | ☐ | 2.000 | 2.056 | 9090.13 | 0.0084 | P | 3.9 |
| 3 | ☐ | 5.000 | 4.859 | 21355.26 | 0.0197 | P | 1.2 |
| 4 | ☐ | 10.000 | 9.935 | 43900.79 | 0.0401 | P | 1.3 |
| 5 | ☐ | 100.000 | 99.136 | 434935.55 | 0.3983 | P | 2.2 |
| 6 | ☐ | 200.000 | 200.438 | 870258.53 | 0.8050 | P | 1.1 |

y = 0.0040 * x + 1.9096E-004
R = 1.0000
DL = 0.01262
BEC = 0.04756

Weight: <None>
Min Conc: <None>

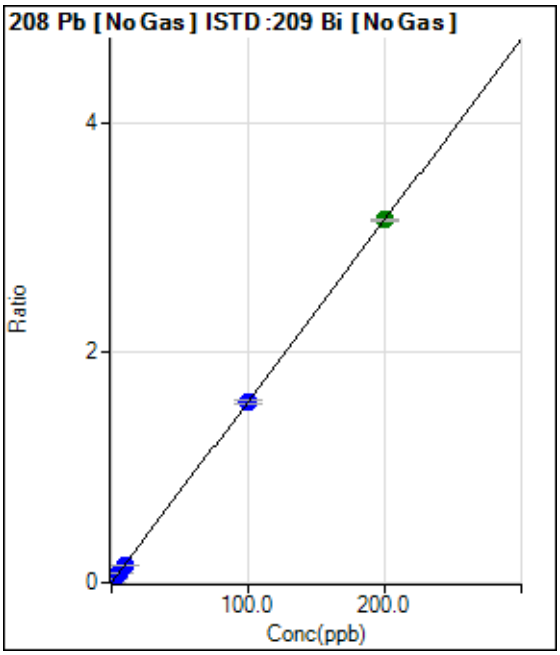



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 190.01 | 0.0002 | P | 15.4 |
| 2 | ☐ | 2.000 | 2.030 | 7709.17 | 0.0072 | P | 3.8 |
| 3 | ☐ | 5.000 | 4.818 | 18173.54 | 0.0168 | P | 0.3 |
| 4 | ☐ | 10.000 | 9.724 | 36868.14 | 0.0337 | P | 2.7 |
| 5 | ☐ | 100.000 | 98.524 | 370676.25 | 0.3394 | P | 2.7 |
| 6 | ☐ | 200.000 | 200.756 | 747534.36 | 0.6915 | P | 0.6 |

y = 0.0034 * x + 1.7571E-004
R = 1.0000
DL = 0.02364
BEC = 0.05103

Weight: <None>
Min Conc: <None>

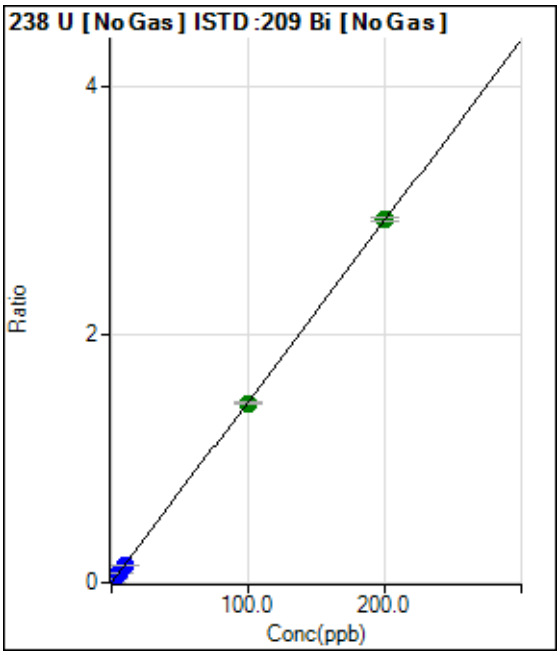
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 803.37 | 0.0007 | P | 16.4 |
| 2 | ☐ | 2.000 | 2.045 | 35470.29 | 0.0330 | P | 2.9 |
| 3 | ☐ | 5.000 | 4.945 | 85239.63 | 0.0786 | P | 0.8 |
| 4 | ☐ | 10.000 | 9.880 | 171276.18 | 0.1564 | P | 0.7 |
| 5 | ☐ | 100.000 | 99.673 | 1715464.42 | 1.5709 | P | 2.4 |
| 6 | ☐ | 200.000 | 200.170 | 3409565.73 | 3.1539 | A | 0.8 |

y = 0.0158 * x + 7.4350E-004
R = 1.0000
DL = 0.02317
BEC = 0.0472

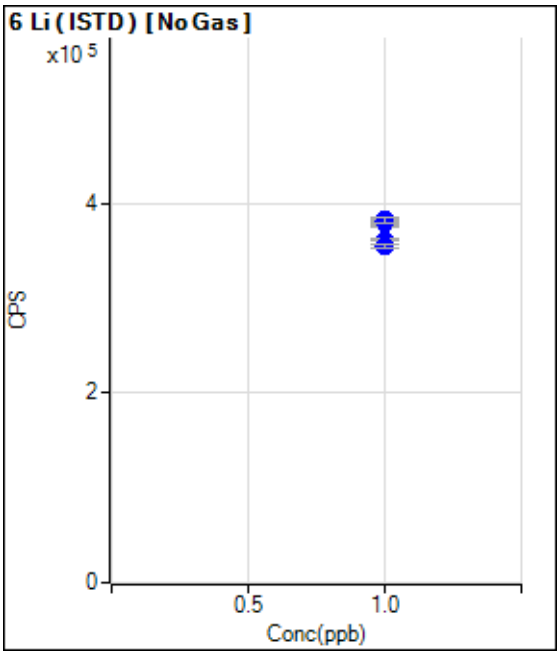
Weight: <None>
Min Conc: <None>



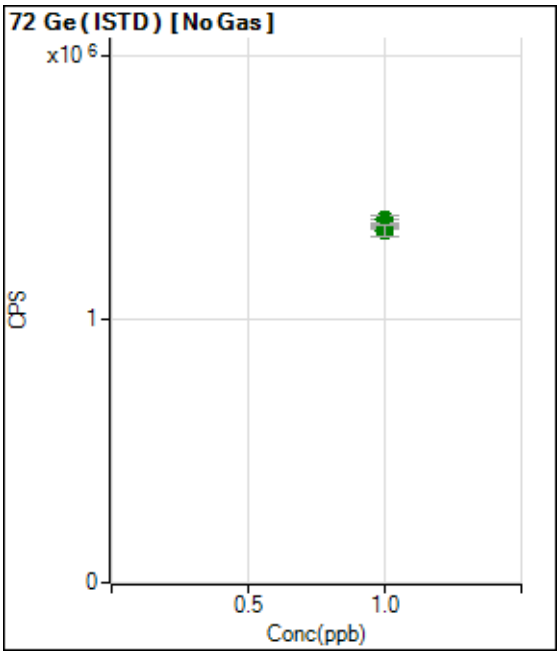

| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 373.35 | 0.0003 | P | 19.2 |
| 2 | ☐ | 2.000 | 1.936 | 30728.85 | 0.0285 | P | 1.7 |
| 3 | ☐ | 5.000 | 4.791 | 76022.13 | 0.0701 | P | 0.7 |
| 4 | ☐ | 10.000 | 9.507 | 152045.99 | 0.1388 | P | 1.0 |
| 5 | ☐ | 100.000 | 99.092 | 1577036.23 | 1.4438 | A | 1.6 |
| 6 | ☐ | 200.000 | 200.484 | 3157388.91 | 2.9207 | A | 0.9 |

y = 0.0146 * x + 3.4353E-004
R = 1.0000
DL = 0.01361
BEC = 0.02358

Weight: <None>
Min Conc: <None>

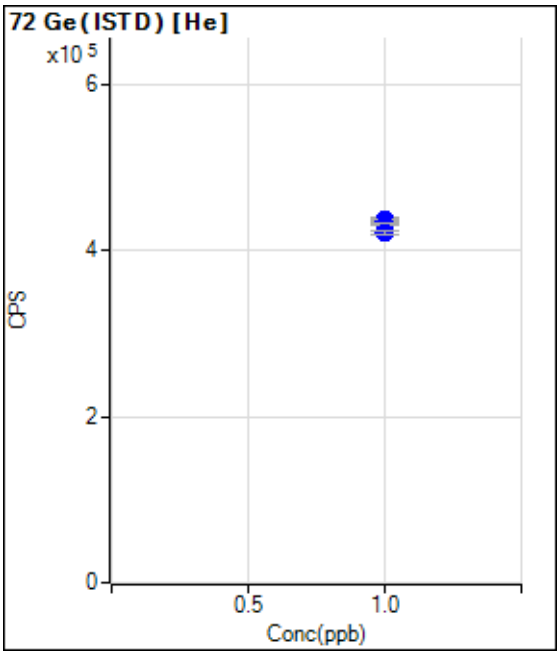



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 382126.43 | | P | 0.8 |
| 2 | ☐ | 1.000 | | 378879.07 | | P | 1.6 |
| 3 | ☐ | 1.000 | | 378112.11 | | P | 1.9 |
| 4 | ☐ | 1.000 | | 381757.62 | | P | 1.5 |
| 5 | ☐ | 1.000 | | 360861.38 | | P | 0.7 |
| 6 | ☐ | 1.000 | | 354731.25 | | P | 1.4 |

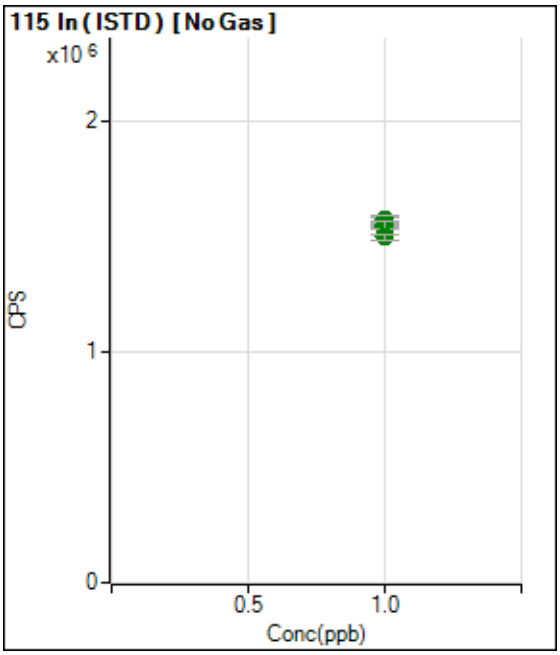



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1368912.79 | | A | 1.3 |
| 2 | ☐ | 1.000 | | 1378992.79 | | A | 2.6 |
| 3 | ☐ | 1.000 | | 1357936.70 | | A | 1.8 |
| 4 | ☐ | 1.000 | | 1365143.42 | | A | 0.6 |
| 5 | ☐ | 1.000 | | 1359648.94 | | A | 1.2 |
| 6 | ☐ | 1.000 | | 1340630.92 | | A | 3.3 |

Calibration for 020_ICV.d

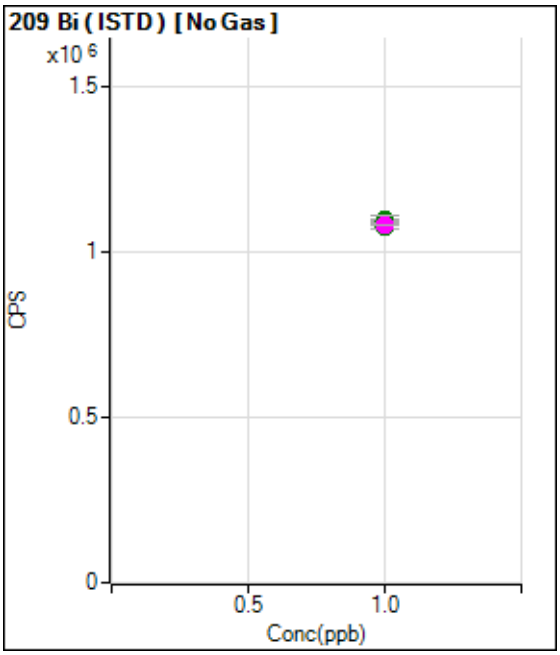



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 434354.13 | | P | 1.0 |
| 2 | ☐ | 1.000 | | 436609.94 | | P | 0.9 |
| 3 | ☐ | 1.000 | | 435689.86 | | P | 2.1 |
| 4 | ☐ | 1.000 | | 435031.73 | | P | 1.4 |
| 5 | ☐ | 1.000 | | 431537.74 | | P | 0.9 |
| 6 | ☐ | 1.000 | | 420984.46 | | P | 1.2 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1552260.58 | | A | 1.1 |
| 2 | ☐ | 1.000 | | 1572902.71 | | A | 1.5 |
| 3 | ☐ | 1.000 | | 1547971.32 | | A | 1.3 |
| 4 | ☐ | 1.000 | | 1574861.98 | | A | 2.4 |
| 5 | ☐ | 1.000 | | 1551610.42 | | A | 2.4 |
| 6 | ☐ | 1.000 | | 1499976.33 | | A | 2.0 |

Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1083437.77 | | A | 2.6 |
| 2 | ☐ | 1.000 | | 1076245.19 | | A | 1.3 |
| 3 | ☐ | 1.000 | | 1083983.78 | | M | 0.5 |
| 4 | ☐ | 1.000 | | 1095289.67 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 1092506.34 | | A | 2.6 |
| 6 | ☐ | 1.000 | | 1081056.78 | | M | 0.3 |

# Calibration Blank Report

**Sample Table**

| | |
|---|---|
| Sample Name | CAL BLK |
| Data File Name | 013CALB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T10:39:38-05:00 |
| Sample Type | CalBlk |
| Level | 1 |
| Dilution | 1 |
| Comment | |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 27567 | 0.00 |
| Be | 9 | 1 | No Gas | 92 | 12.39 |
| V | 51 | 2 | He | 29625 | 0.00 |
| Cr | 52 | 2 | He | 14418 | 0.01 |
| Fe | 56 | 2 | He | 45984 | 0.00 |
| Se | 78 | 2 | He | 245 | 0.51 |
| As | 75 | 2 | He | 488 | 0.45 |
| Ca | 44 | 2 | He | 707 | 1.14 |
| Na | 23 | 2 | He | 46591 | 0.00 |
| Mg | 24 | 2 | He | 4221 | 0.09 |
| K | 39 | 2 | He | 243636 | 0.00 |
| Mn | 55 | 2 | He | 587 | 2.98 |
| Co | 59 | 2 | He | 53 | 53.70 |
| Ni | 60 | 2 | He | 430 | 4.62 |
| Cu | 63 | 2 | He | 227 | 19.98 |
| Zn | 66 | 2 | He | 267 | 14.09 |
| Al | 27 | 2 | He | 1027 | 0.88 |
| B | 11 | 1 | No Gas | 6668 | 0.06 |
| Al | 27 | 1 | No Gas | 32612 | 0.00 |
| Si | 28 | 1 | No Gas | 383503 | 0.00 |
| Ag | 107 | 1 | No Gas | 700 | 1.67 |
| Sr | 88 | 1 | No Gas | 1363 | 0.70 |
| Mo | 95 | 1 | No Gas | 650 | 2.73 |
| Sn | 118 | 1 | No Gas | 1203 | 0.49 |
| Sb | 121 | 1 | No Gas | 613 | 1.20 |
| Ba | 137 | 1 | No Gas | 150 | 11.76 |
| Tl | 205 | 1 | No Gas | 473 | 3.85 |
| Tl | 203 | 1 | No Gas | 173 | 15.37 |
| Pb | 208 | 1 | No Gas | 803 | 1.74 |
| U | 238 | 1 | No Gas | 373 | 5.80 |
| Ca | 43 | 2 | He | 50 | 0.00 |
| Sb | 121 | 2 | He | 323 | 11.57 |
| Ti | 47 | 2 | He | 27 | 214.81 |
| Cu | 63 | 1 | No Gas | 1090 | 1.24 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 382126 | 0.78 |

# Calibration Blank Report

| | | | | | |
|---|---|---|---|---|---|
| Ge | 72 | 2 | He | 434354 | 1.02 |
| Ge | 72 | 1 | No Gas | 1368913 | 1.35 |
| In | 115 | 1 | No Gas | 1552261 | 1.13 |
| Bi | 209 | 1 | No Gas | 1083438 | 2.61 |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 2/10/200 |
| Data File Name | 014CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T10:41:30-05:00 |
| Sample Type | CalStd |
| Level | 2 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 013CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 3564 | 0.08 |
| V | 51 | 2 | He | 36482 | 0.00 |
| Cr | 52 | 2 | He | 20539 | 0.01 |
| Fe | 56 | 2 | He | 704707 | 0.00 |
| Se | 78 | 2 | He | 351 | 0.52 |
| As | 75 | 2 | He | 1748 | 0.02 |
| Ca | 44 | 2 | He | 6332 | 0.05 |
| Na | 23 | 2 | He | 161624 | 0.00 |
| Mg | 24 | 2 | He | 74351 | 0.00 |
| K | 39 | 2 | He | 367962 | 0.00 |
| Mn | 55 | 2 | He | 6638 | 0.03 |
| Co | 59 | 2 | He | 9597 | 0.04 |
| Ni | 60 | 2 | He | 2780 | 0.14 |
| Cu | 63 | 2 | He | 5971 | 0.08 |
| Zn | 66 | 2 | He | 1477 | 1.06 |
| Al | 27 | 2 | He | 1757 | 0.55 |
| B | 11 | 1 | No Gas | 15914 | 0.02 |
| Al | 27 | 1 | No Gas | 46251 | 0.01 |
| Si | 28 | 1 | No Gas | 424099 | 0.00 |
| Ag | 107 | 1 | No Gas | 17675 | 0.01 |
| Cd | 111 | 1 | No Gas | 3381 | 0.14 |
| Sr | 88 | 1 | No Gas | 39716 | 0.00 |
| Mo | 95 | 1 | No Gas | 7436 | 0.04 |
| Sn | 118 | 1 | No Gas | 11475 | 0.01 |
| Sb | 121 | 1 | No Gas | 15383 | 0.01 |
| Ba | 137 | 1 | No Gas | 6008 | 0.11 |
| Tl | 205 | 1 | No Gas | 25132 | 0.01 |
| Tl | 203 | 1 | No Gas | 11088 | 0.02 |
| Pb | 208 | 1 | No Gas | 35470 | 0.01 |
| U | 238 | 1 | No Gas | 30729 | 0.01 |
| Ca | 43 | 2 | He | 343 | 5.11 |
| Sb | 121 | 2 | He | 8193 | 0.06 |
| Cu | 63 | 1 | No Gas | 14148 | 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 | 378879 | 1.61 | 382126 | 99.15 | 70 | 120 | |
| Ge | 72 | 2 | He | 436610 | 0.91 | 434354 | 100.52 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1378993 | 2.57 | 1368913 | 100.74 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1572903 | 1.46 | 1552261 | 101.33 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1076245 | 1.26 | 1083438 | 99.34 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 5/25/500 |
| Data File Name | 015CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T10:43:22-05:00 |
| Sample Type | CalStd |
| Level | 3 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 013CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 8993 | 0.02 |
| V | 51 | 2 | He | 45053 | 0.00 |
| Cr | 52 | 2 | He | 31503 | 0.00 |
| Fe | 56 | 2 | He | 1649458 | 0.00 |
| Se | 78 | 2 | He | 617 | 0.48 |
| As | 75 | 2 | He | 3826 | 0.09 |
| Ca | 44 | 2 | He | 14695 | 0.03 |
| Na | 23 | 2 | He | 330572 | 0.00 |
| Mg | 24 | 2 | He | 178350 | 0.00 |
| K | 39 | 2 | He | 553334 | 0.00 |
| Mn | 55 | 2 | He | 16090 | 0.01 |
| Co | 59 | 2 | He | 23554 | 0.02 |
| Ni | 60 | 2 | He | 5985 | 0.10 |
| Cu | 63 | 2 | He | 14031 | 0.03 |
| Zn | 66 | 2 | He | 3444 | 0.05 |
| Al | 27 | 2 | He | 2017 | 0.18 |
| B | 11 | 1 | No Gas | 29912 | 0.01 |
| Al | 27 | 1 | No Gas | 65980 | 0.00 |
| Si | 28 | 1 | No Gas | 500219 | 0.00 |
| Ag | 107 | 1 | No Gas | 44669 | 0.00 |
| Cd | 111 | 1 | No Gas | 8641 | 0.01 |
| Sr | 88 | 1 | No Gas | 96472 | 0.00 |
| Mo | 95 | 1 | No Gas | 17846 | 0.01 |
| Sn | 118 | 1 | No Gas | 27028 | 0.00 |
| Sb | 121 | 1 | No Gas | 38915 | 0.00 |
| Ba | 137 | 1 | No Gas | 15523 | 0.01 |
| Tl | 205 | 1 | No Gas | 62898 | 0.00 |
| Tl | 203 | 1 | No Gas | 26729 | 0.00 |
| Pb | 208 | 1 | No Gas | 85240 | 0.00 |
| U | 238 | 1 | No Gas | 76022 | 0.00 |
| Ca | 43 | 2 | He | 827 | 1.32 |
| Sb | 121 | 2 | He | 20650 | 0.00 |
| Cu | 63 | 1 | No Gas | 32820 | 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 | 378112 | 1.92 | 382126 | 98.95 | 70 | 120 | |
| Ge | 72 | 2 | He | 435690 | 2.11 | 434354 | 100.31 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1357937 | 1.76 | 1368913 | 99.20 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1547971 | 1.32 | 1552261 | 99.72 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1083984 | 0.48 | 1083438 | 100.05 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 10/50/100 |
| Data File Name | 016CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T10:45:14-05:00 |
| Sample Type | CalStd |
| Level | 4 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 013CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 17740 | 0.01 |
| V | 51 | 2 | He | 57831 | 0.00 |
| Cr | 52 | 2 | He | 48948 | 0.01 |
| Fe | 56 | 2 | He | 3191538 | 0.00 |
| Se | 78 | 2 | He | 1000 | 0.57 |
| As | 75 | 2 | He | 7239 | 0.04 |
| Ca | 44 | 2 | He | 28206 | 0.01 |
| Na | 23 | 2 | He | 609062 | 0.00 |
| Mg | 24 | 2 | He | 351812 | 0.00 |
| K | 39 | 2 | He | 861502 | 0.00 |
| Mn | 55 | 2 | He | 31510 | 0.00 |
| Co | 59 | 2 | He | 45801 | 0.00 |
| Ni | 60 | 2 | He | 11815 | 0.01 |
| Cu | 63 | 2 | He | 27672 | 0.01 |
| Zn | 66 | 2 | He | 6815 | 0.04 |
| Al | 27 | 2 | He | 3417 | 0.13 |
| B | 11 | 1 | No Gas | 51824 | 0.00 |
| Al | 27 | 1 | No Gas | 104746 | 0.00 |
| Si | 28 | 1 | No Gas | 617166 | 0.00 |
| Ag | 107 | 1 | No Gas | 88837 | 0.00 |
| Cd | 111 | 1 | No Gas | 16974 | 0.01 |
| Sr | 88 | 1 | No Gas | 189938 | 0.00 |
| Mo | 95 | 1 | No Gas | 35160 | 0.00 |
| Sn | 118 | 1 | No Gas | 53867 | 0.00 |
| Sb | 121 | 1 | No Gas | 77733 | 0.00 |
| Ba | 137 | 1 | No Gas | 31211 | 0.00 |
| Tl | 205 | 1 | No Gas | 121444 | 0.00 |
| Tl | 203 | 1 | No Gas | 52209 | 0.00 |
| Pb | 208 | 1 | No Gas | 171276 | 0.00 |
| U | 238 | 1 | No Gas | 152046 | 0.00 |
| Ca | 43 | 2 | He | 1580 | 0.21 |
| Sb | 121 | 2 | He | 41496 | 0.01 |
| Cu | 63 | 1 | No Gas | 63786 | 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 | 381758 | 1.49 | 382126 | 99.90 | 70 | 120 | |
| Ge | 72 | 2 | He | 435032 | 1.40 | 434354 | 100.16 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1365143 | 0.63 | 1368913 | 99.72 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1574862 | 2.38 | 1552261 | 101.46 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1095290 | 0.66 | 1083438 | 101.09 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 100/500/10K |
| Data File Name | 017CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T10:47:06-05:00 |
| Sample Type | CalStd |
| Level | 5 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 013CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 176687 | 0.00 |
| V | 51 | 2 | He | 339463 | 0.00 |
| Cr | 52 | 2 | He | 358533 | 0.00 |
| Fe | 56 | 2 | He | 30838657 | 0.00 |
| Se | 78 | 2 | He | 7790 | 0.01 |
| As | 75 | 2 | He | 67370 | 0.00 |
| Ca | 44 | 2 | He | 275729 | 0.00 |
| Na | 23 | 2 | He | 5144773 | 0.00 |
| Mg | 24 | 2 | He | 3063974 | 0.00 |
| K | 39 | 2 | He | 6006354 | 0.00 |
| Mn | 55 | 2 | He | 302702 | 0.00 |
| Co | 59 | 2 | He | 449796 | 0.00 |
| Ni | 60 | 2 | He | 110438 | 0.00 |
| Cu | 63 | 2 | He | 269514 | 0.00 |
| Zn | 66 | 2 | He | 65830 | 0.00 |
| Al | 27 | 2 | He | 26312 | 0.01 |
| B | 11 | 1 | No Gas | 457991 | 0.00 |
| Al | 27 | 1 | No Gas | 803152 | 0.00 |
| Si | 28 | 1 | No Gas | 2660161 | 0.00 |
| Ag | 107 | 1 | No Gas | 864873 | 0.00 |
| Cd | 111 | 1 | No Gas | 168840 | 0.00 |
| Sr | 88 | 1 | No Gas | 1828632 | 0.00 |
| Mo | 95 | 1 | No Gas | 346133 | 0.00 |
| Sn | 118 | 1 | No Gas | 532044 | 0.00 |
| Sb | 121 | 1 | No Gas | 770960 | 0.00 |
| Ba | 137 | 1 | No Gas | 309133 | 0.00 |
| Tl | 205 | 1 | No Gas | 1176736 | 0.00 |
| Tl | 203 | 1 | No Gas | 499334 | 0.00 |
| Pb | 208 | 1 | No Gas | 1715464 | 0.00 |
| U | 238 | 1 | No Gas | 1577036 | 0.00 |
| Ca | 43 | 2 | He | 16437 | 0.01 |
| Sb | 121 | 2 | He | 408613 | 0.00 |
| Cu | 63 | 1 | No Gas | 616694 | 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 | 360861 | 0.67 | 382126 | 94.44 | 70 | 120 | |
| Ge | 72 | 2 | He | 431538 | 0.88 | 434354 | 99.35 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1359649 | 1.22 | 1368913 | 99.32 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1551610 | 2.39 | 1552261 | 99.96 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1092506 | 2.65 | 1083438 | 100.84 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 200/1000/20K |
| Data File Name | 018CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T10:48:54-05:00 |
| Sample Type | CalStd |
| Level | 6 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 013CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 341772 | 0.00 |
| V | 51 | 2 | He | 663371 | 0.00 |
| Cr | 52 | 2 | He | 697270 | 0.00 |
| Fe | 56 | 2 | He | 60835224 | 0.00 |
| Se | 78 | 2 | He | 15201 | 0.00 |
| As | 75 | 2 | He | 135628 | 0.00 |
| Ca | 44 | 2 | He | 546590 | 0.00 |
| Na | 23 | 2 | He | 10129627 | 0.00 |
| Mg | 24 | 2 | He | 6000709 | 0.00 |
| K | 39 | 2 | He | 11477449 | 0.00 |
| Mn | 55 | 2 | He | 598668 | 0.00 |
| Co | 59 | 2 | He | 900779 | 0.00 |
| Ni | 60 | 2 | He | 217690 | 0.00 |
| Cu | 63 | 2 | He | 534684 | 0.00 |
| Zn | 66 | 2 | He | 129165 | 0.00 |
| Al | 27 | 2 | He | 51355 | 0.00 |
| B | 11 | 1 | No Gas | 762386 | 0.00 |
| Al | 27 | 1 | No Gas | 1496413 | 0.00 |
| Si | 28 | 1 | No Gas | 4741350 | 0.00 |
| Ag | 107 | 1 | No Gas | 1654332 | 0.00 |
| Cd | 111 | 1 | No Gas | 335252 | 0.00 |
| Sr | 88 | 1 | No Gas | 3550388 | 0.00 |
| Mo | 95 | 1 | No Gas | 692098 | 0.00 |
| Sn | 118 | 1 | No Gas | 1026191 | 0.00 |
| Sb | 121 | 1 | No Gas | 1537408 | 0.00 |
| Ba | 137 | 1 | No Gas | 614806 | 0.00 |
| Tl | 205 | 1 | No Gas | 2304287 | 0.00 |
| Tl | 203 | 1 | No Gas | 983252 | 0.00 |
| Pb | 208 | 1 | No Gas | 3409566 | 0.00 |
| U | 238 | 1 | No Gas | 3157389 | 0.00 |
| Ca | 43 | 2 | He | 32068 | 0.00 |
| Sb | 121 | 2 | He | 827434 | 0.00 |
| Cu | 63 | 1 | No Gas | 1171740 | 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 | 354731 | 1.43 | 382126 | 92.83 | 70 | 120 | |
| Ge | 72 | 2 | He | 420984 | 1.16 | 434354 | 96.92 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1340631 | 3.29 | 1368913 | 97.93 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1499976 | 1.99 | 1552261 | 96.63 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1081057 | 0.28 | 1083438 | 99.78 | 70 | 120 | |

# Initial Calibration Verification (ICV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICV |
| Data File Name | 020_ICV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T10:54:58-05:00 |
| Sample Type | ICV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 013CALB.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 | 100.446 | 1.904 | 544020 | 0.48 | 100 | 100.4 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 99.130 | 2.080 | 181345 | 0.49 | 100 | 99.1 | 90 | 110 | |
| V | 51 | 2 | He | 95.139 | 0.745 | 336519 | 0.87 | 100 | 95.1 | 90 | 110 | |
| Cr | 52 | 2 | He | 104.352 | 0.465 | 379204 | 0.63 | 100 | 104.4 | 90 | 110 | |
| Fe | 56 | 2 | He | 9905.100 | 1.023 | 30895360 | 1.24 | 10000 | 99.1 | 90 | 110 | |
| Se | 78 | 2 | He | 93.850 | 2.336 | 7431 | 2.33 | 100 | 93.8 | 90 | 110 | |
| As | 75 | 2 | He | 98.319 | 1.032 | 68243 | 1.12 | 100 | 98.3 | 90 | 110 | |
| Ca | 44 | 2 | He | 10036.240 | 0.602 | 281042 | 0.78 | 10000 | 100.4 | 90 | 110 | |
| Na | 23 | 2 | He | 10075.067 | 0.663 | 5250323 | 0.76 | 10000 | 100.8 | 90 | 110 | |
| Mg | 24 | 2 | He | 10278.687 | 0.461 | 3167380 | 0.75 | 10000 | 102.8 | 90 | 110 | |
| K | 39 | 2 | He | 10035.541 | 1.701 | 6036521 | 1.88 | 10000 | 100.4 | 90 | 110 | |
| Mn | 55 | 2 | He | 99.950 | 0.456 | 306662 | 0.72 | 100 | 100.0 | 90 | 110 | |
| Co | 59 | 2 | He | 97.919 | 0.464 | 450569 | 0.26 | 100 | 97.9 | 90 | 110 | |
| Ni | 60 | 2 | He | 106.449 | 0.129 | 118902 | 0.33 | 100 | 106.4 | 90 | 110 | |
| Cu | 63 | 2 | He | 98.029 | 0.693 | 268343 | 0.94 | 100 | 98.0 | 90 | 110 | |
| Zn | 66 | 2 | He | 100.819 | 1.048 | 66888 | 0.75 | 100 | 100.8 | 90 | 110 | |
| Al | 27 | 2 | He | 106.081 | 1.855 | 28339 | 2.05 | 100 | 106.1 | 90 | 110 | |
| B | 11 | 1 | No Gas | 503.409 | 2.105 | 477405 | 0.77 | 500 | 100.7 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 114.123 | 1.221 | 880310 | 0.92 | 100 | 114.1 | 90 | 110 | ICV Main CR1 Failed |
| Si | 28 | 1 | No Gas | 693.403 | 5.311 | 3446301 | 3.64 | 500 | 138.7 | 90 | 110 | ICV Main CR1 Failed |
| Ag | 107 | 1 | No Gas | 100.750 | 1.548 | 847397 | 0.62 | 100 | 100.8 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 97.019 | 1.240 | 164097 | 0.31 | 100 | 97.0 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 102.699 | 1.428 | 1848633 | 1.36 | 100 | 102.7 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 97.699 | 1.683 | 340891 | 1.39 | 100 | 97.7 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 100.717 | 1.188 | 524964 | 0.29 | 100 | 100.7 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 100.009 | 0.867 | 772877 | 0.54 | 100 | 100.0 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 99.199 | 1.711 | 307641 | 0.56 | 100 | 99.2 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 93.700 | 3.358 | 1079543 | 2.12 | 100 | 93.7 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 94.492 | 2.211 | 464084 | 1.31 | 100 | 94.5 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 97.221 | 1.139 | 1652630 | 0.93 | 100 | 97.2 | 90 | 110 | |
| U | 238 | 1 | No Gas | 97.935 | 1.578 | 1538949 | 0.39 | 100 | 97.9 | 90 | 110 | |
| Ca | 43 | 2 | He | 10117.755 | 2.759 | 16677 | 2.73 | 10000 | 101.2 | 90 | 110 | |
| Sb | 121 | 2 | He | 96.728 | 1.136 | 408060 | 1.29 | 100 | 96.7 | 90 | 110 | |
| Ti | 47 | 2 | He | 99.395 | 1.859 | 14291 | 2.00 | 100 | 99.4 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 102.981 | 0.876 | 612977 | 0.50 | 100 | 103.0 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 98.088 | 4.122 | 12902 | 4.50 | 100 | 98.1 | 90 | 110 | |

**QC ISTD Table**

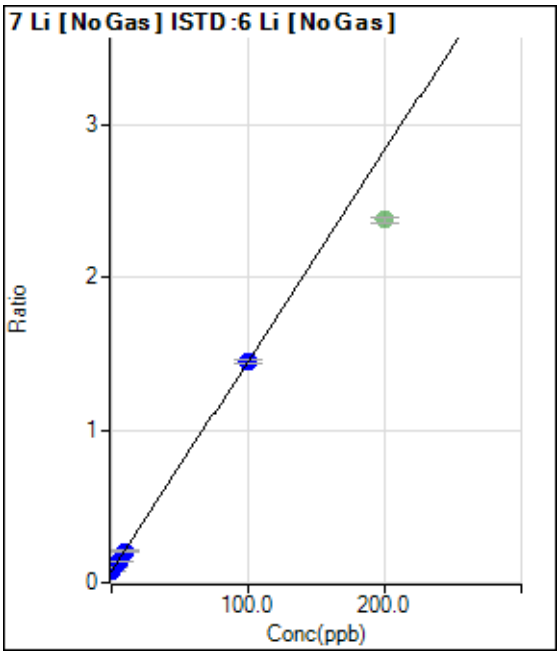
| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 373935 | 1.72 | 382126 | 97.86 | 70 | 120 | |
| Ge | 72 | 2 | He | 432316 | 0.29 | 434354 | 99.53 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1350043 | 1.24 | 1368913 | 98.62 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1521352 | 1.18 | 1552261 | 98.01 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1078653 | 1.24 | 1083438 | 99.56 | 70 | 120 | |

Calibration for 020_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062823A.b\
Analysis File: 062823A.batch.bin
DA Date-Time: 6/28/2023 1:33:06 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 013CALB.d | CAL BLK | 6/28/2023 10:39:38 AM |
| 2 | 014CALS.d | 2/10/200 | 6/28/2023 10:41:30 AM |
| 3 | 015CALS.d | 5/25/500 | 6/28/2023 10:43:22 AM |
| 4 | 016CALS.d | 10/50/100 | 6/28/2023 10:45:14 AM |
| 5 | 017CALS.d | 100/500/10K | 6/28/2023 10:47:06 AM |
| 6 | 018CALS.d | 200/1000/20K | 6/28/2023 10:48:54 AM |

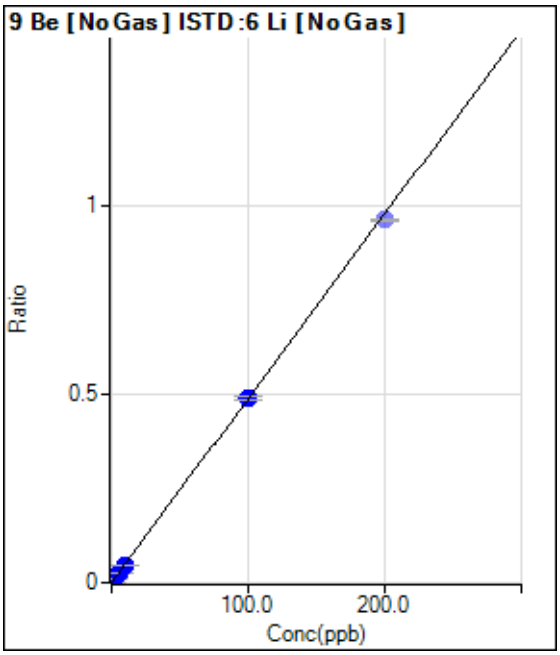
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 27566.99 | 0.0721 | P | 0.9 |
| 2 | ☐ | 2.000 | 2.118 | 38378.78 | 0.1013 | P | 1.1 |
| 3 | ☐ | 5.000 | 4.970 | 53148.28 | 0.1406 | P | 1.2 |
| 4 | ☐ | 10.000 | 9.759 | 78827.59 | 0.2065 | P | 1.4 |
| 5 | ☐ | 100.000 | 100.023 | 522975.20 | 1.4493 | P | 1.2 |
| 6 | ☑ | 200.000 | | 842176.91 | 2.3743 | A | 1.7 |

y = 0.0138 * x + 0.0721
R = 1.0000
DL = 0.1439
BEC = 5.24

Weight: <None>
Min Conc: <None>

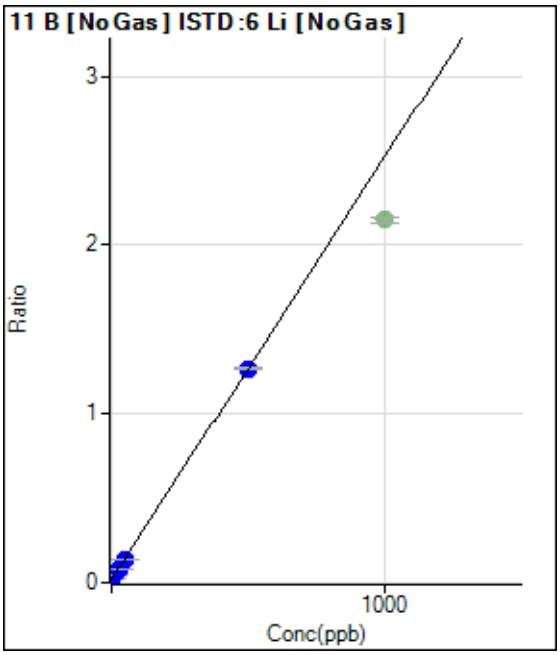



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 91.67 | 0.0002 | P | 10.7 |
| 2 | ☐ | 2.000 | 1.874 | 3563.81 | 0.0094 | P | 2.5 |
| 3 | ☐ | 5.000 | 4.814 | 8992.92 | 0.0238 | P | 1.3 |
| 4 | ☐ | 10.000 | 9.451 | 17739.63 | 0.0465 | P | 1.0 |
| 5 | ☐ | 100.000 | 100.067 | 176686.94 | 0.4897 | P | 1.9 |
| 6 | ☑ | 200.000 | | 341772.42 | 0.9635 | P | 0.6 |

y = 0.0049 * x + 2.3978E-004
R = 1.0000
DL = 0.01579
BEC = 0.04902

Weight: <None>
Min Conc: <None>

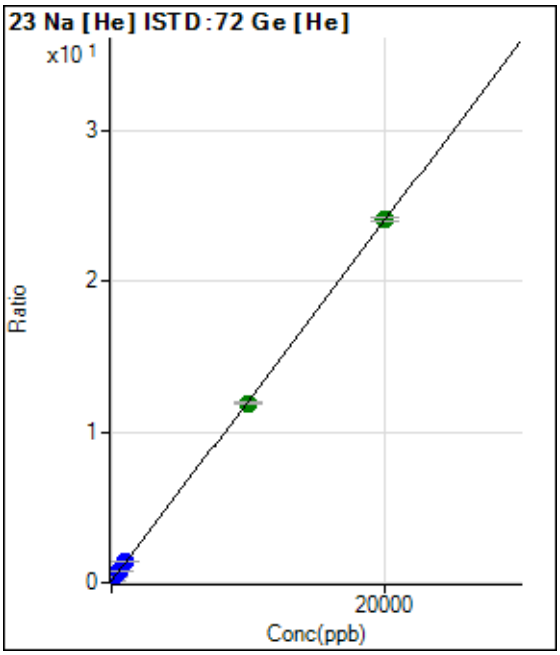
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6668.31 | 0.0174 | P | 3.4 |
| 2 | ☐ | 10.000 | 9.816 | 15914.08 | 0.0420 | P | 3.0 |
| 3 | ☐ | 25.000 | 24.645 | 29911.83 | 0.0791 | P | 0.5 |
| 4 | ☐ | 50.000 | 47.297 | 51823.53 | 0.1358 | P | 3.1 |
| 5 | ☐ | 500.000 | 500.292 | 457991.21 | 1.2692 | P | 0.6 |
| 6 | ☑ | 1000.000 | | 762386.24 | 2.1491 | A | 1.7 |

y = 0.0025 * x + 0.0174
R = 1.0000
DL = 0.7212
BEC = 6.974

Weight: <None>
Min Conc: <None>

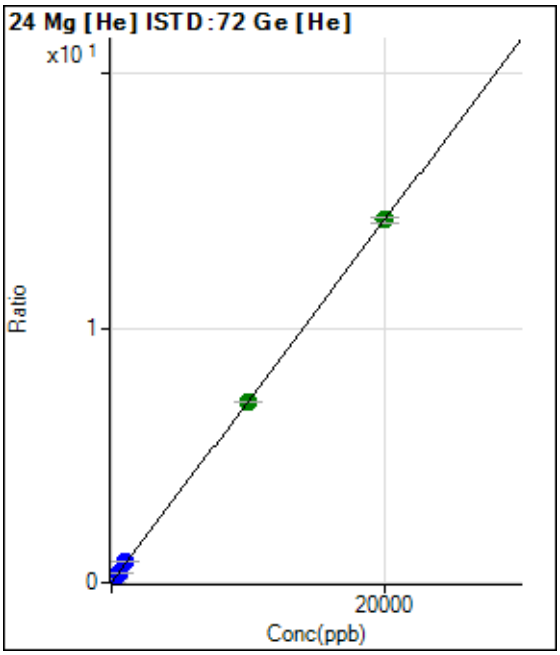



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 46591.26 | 0.1073 | P | 2.1 |
| 2 | ☐ | 200.000 | 220.066 | 161623.86 | 0.3702 | P | 1.4 |
| 3 | ☐ | 500.000 | 545.332 | 330572.32 | 0.7588 | P | 1.1 |
| 4 | ☐ | 1000.000 | 1082.094 | 609062.32 | 1.4001 | P | 0.9 |
| 5 | ☐ | 10000.000 | 9888.177 | 5144773.25 | 11.9213 | A | 0.9 |
| 6 | ☐ | 20000.000 | 20050.473 | 10129626.72 | 24.0629 | A | 1.0 |

y = 0.0012 * x + 0.1073
R = 1.0000
DL = 5.682
BEC = 89.79

Weight: <None>
Min Conc: <None>

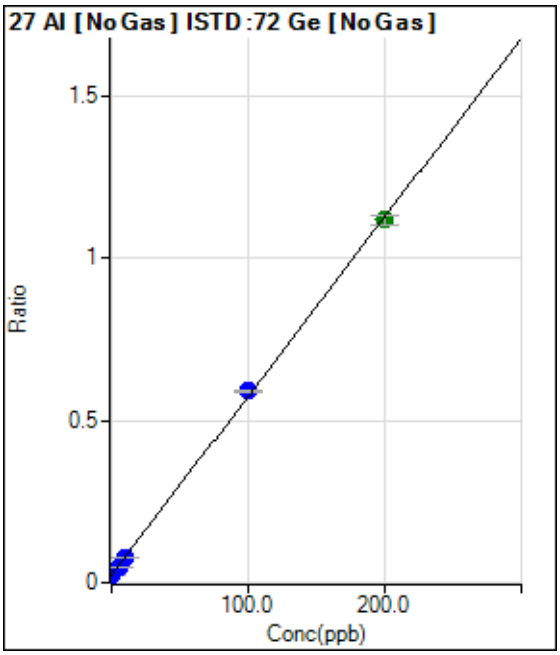
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 4220.72 | 0.0097 | P | 4.6 |
| 2 | ☐ | 200.000 | 225.584 | 74350.85 | 0.1703 | P | 0.8 |
| 3 | ☐ | 500.000 | 561.445 | 178350.08 | 0.4094 | P | 0.6 |
| 4 | ☐ | 1000.000 | 1122.476 | 351812.23 | 0.8087 | P | 0.6 |
| 5 | ☐ | 10000.000 | 9960.283 | 3063973.81 | 7.0998 | A | 0.8 |
| 6 | ☐ | 20000.000 | 20011.943 | 6000709.49 | 14.2550 | A | 1.5 |

y = 7.1184E-004 * x + 0.0097
R = 1.0000
DL = 1.896
BEC = 13.66

Weight: <None>
Min Conc: <None>

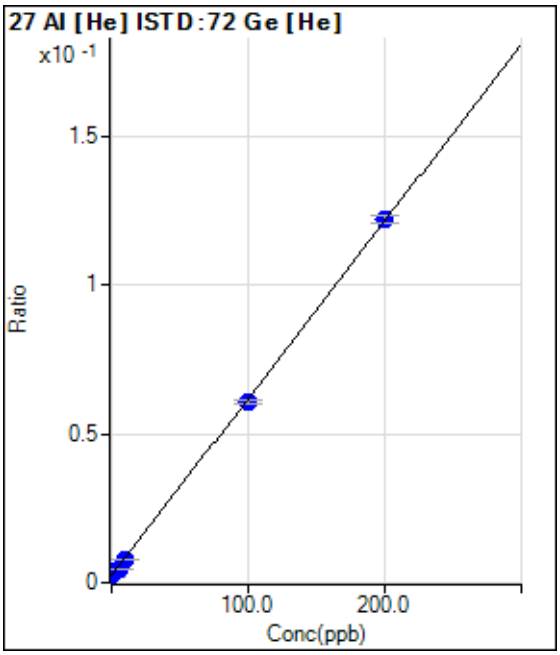



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 32611.98 | 0.0238 | P | 1.7 |
| 2 | ☐ | 2.000 | 1.766 | 46250.66 | 0.0335 | P | 3.0 |
| 3 | ☐ | 5.000 | 4.499 | 65979.65 | 0.0486 | P | 1.4 |
| 4 | ☐ | 10.000 | 9.610 | 104745.60 | 0.0767 | P | 0.7 |
| 5 | ☐ | 100.000 | 102.976 | 803151.86 | 0.5907 | P | 0.7 |
| 6 | ☐ | 200.000 | 198.546 | 1496413.10 | 1.1169 | A | 2.8 |

y = 0.0055 * x + 0.0238
R = 0.9998
DL = 0.2161
BEC = 4.328

Weight: <None>
Min Conc: <None>

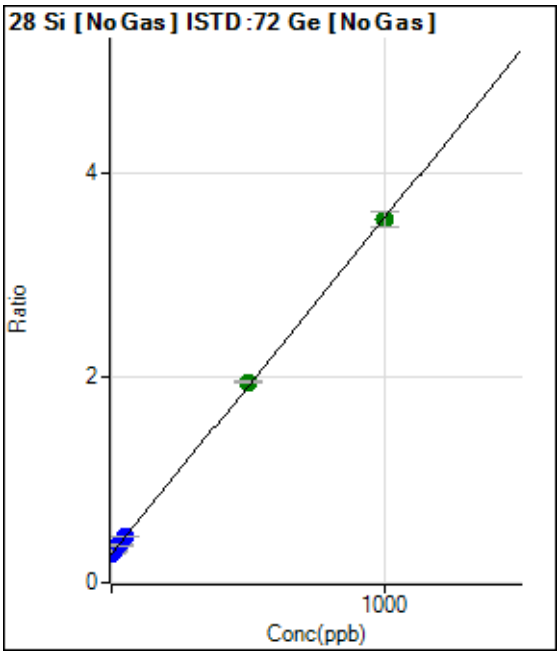
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1026.72 | 0.0024 | P | 10.1 |
| 2 | ☐ | 2.000 | 2.783 | 1756.86 | 0.0040 | P | 9.4 |
| 3 | ☐ | 5.000 | 3.802 | 2016.85 | 0.0046 | P | 3.7 |
| 4 | ☐ | 10.000 | 9.222 | 3417.16 | 0.0079 | P | 5.5 |
| 5 | ☐ | 100.000 | 98.390 | 26311.76 | 0.0610 | P | 1.9 |
| 6 | ☐ | 200.000 | 200.866 | 51355.01 | 0.1220 | P | 2.3 |

y = 5.9563E-004 * x + 0.0024
R = 0.9999
DL = 1.201
BEC = 3.971

Weight: <None>
Min Conc: <None>

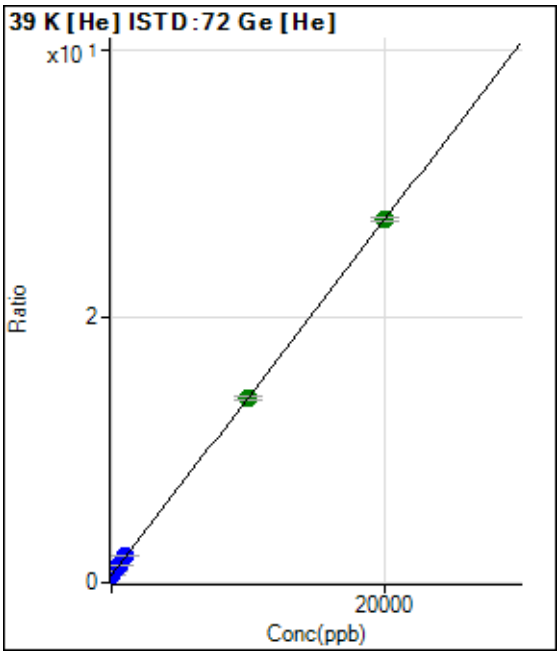



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 383503.15 | 0.2802 | P | 1.2 |
| 2 | ☐ | 10.000 | 8.377 | 424099.47 | 0.3076 | P | 2.0 |
| 3 | ☐ | 25.000 | 26.919 | 500219.34 | 0.3684 | P | 1.9 |
| 4 | ☐ | 50.000 | 52.444 | 617166.20 | 0.4521 | P | 2.1 |
| 5 | ☐ | 500.000 | 511.317 | 2660161.00 | 1.9566 | A | 0.9 |
| 6 | ☐ | 1000.000 | 994.188 | 4741350.03 | 3.5398 | A | 4.2 |

y = 0.0033 * x + 0.2802
R = 0.9999
DL = 2.974
BEC = 85.45

Weight: <None>
Min Conc: <None>

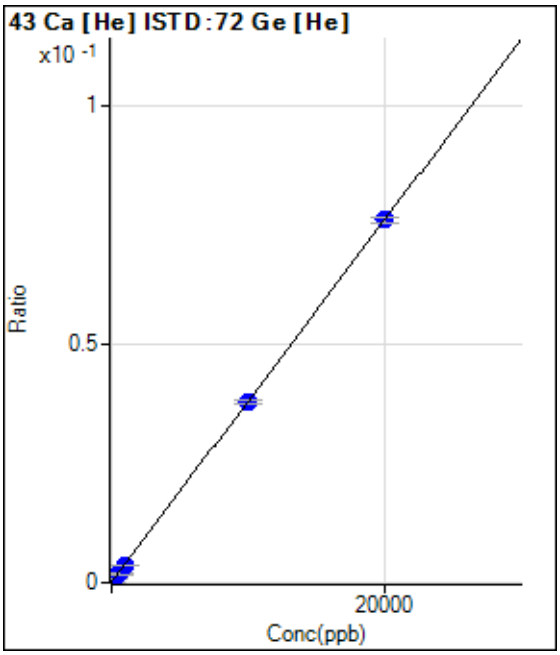
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 243635.66 | 0.5609 | P | 0.7 |
| 2 | ☐ | 200.000 | 211.110 | 367961.74 | 0.8429 | P | 1.8 |
| 3 | ☐ | 500.000 | 531.175 | 553333.72 | 1.2703 | P | 1.5 |
| 4 | ☐ | 1000.000 | 1062.978 | 861502.07 | 1.9805 | P | 0.9 |
| 5 | ☐ | 10000.000 | 10001.164 | 6006354.28 | 13.9170 | A | 2.3 |
| 6 | ☐ | 20000.000 | 19995.379 | 11477449.41 | 27.2637 | A | 1.1 |

y = 0.0013 * x + 0.5609
R = 1.0000
DL = 9.044
BEC = 420

Weight: <None>
Min Conc: <None>

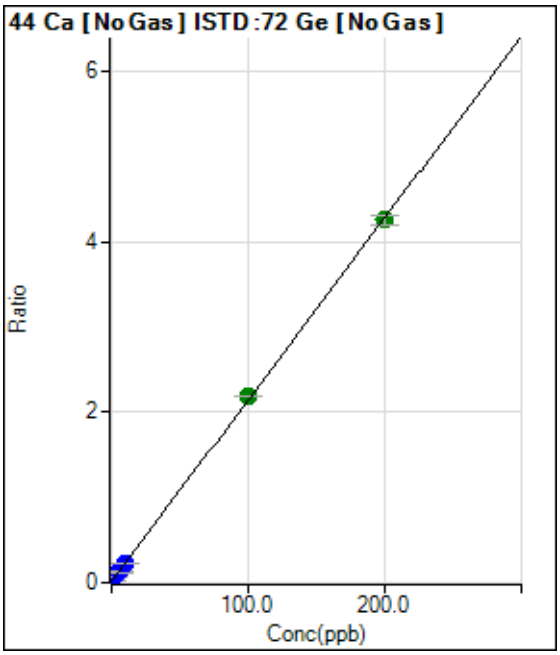



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 50.00 | 0.0001 | P | 1.0 |
| 2 | ☐ | 200.000 | 176.625 | 343.35 | 0.0008 | P | 17.8 |
| 3 | ☐ | 500.000 | 468.424 | 826.71 | 0.0019 | P | 9.3 |
| 4 | ☐ | 1000.000 | 925.294 | 1580.12 | 0.0036 | P | 3.4 |
| 5 | ☐ | 10000.000 | 9989.334 | 16436.71 | 0.0381 | P | 2.1 |
| 6 | ☐ | 20000.000 | 20010.091 | 32067.68 | 0.0762 | P | 1.4 |

y = 3.8013E-006 * x + 1.1512E-004
R = 1.0000
DL = 0.9308
BEC = 30.28

Weight: <None>
Min Conc: <None>

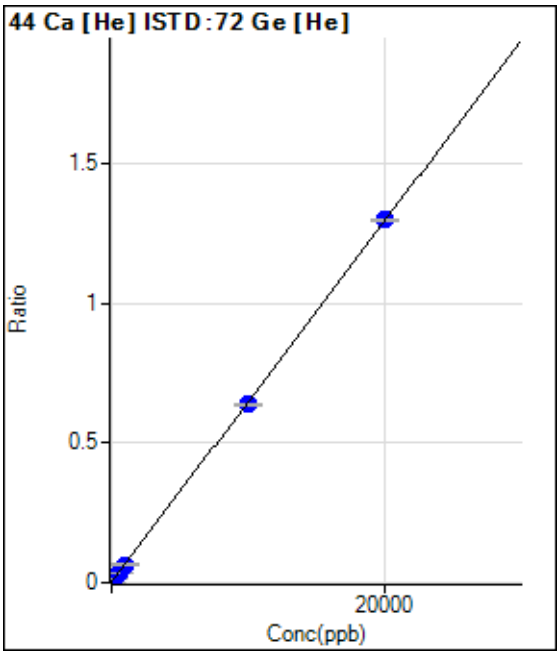
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 17454.58 | 0.0128 | P | 2.4 |
| 2 | ☐ | 2.000 | 2.131 | 80118.92 | 0.0581 | P | 3.5 |
| 3 | ☐ | 5.000 | 5.271 | 169709.19 | 0.1250 | P | 2.5 |
| 4 | ☐ | 10.000 | 10.445 | 321105.05 | 0.2352 | P | 1.1 |
| 5 | ☐ | 100.000 | 101.738 | 2963485.37 | 2.1796 | A | 0.3 |
| 6 | ☐ | 200.000 | 199.101 | 5699078.87 | 4.2533 | A | 2.4 |

y = 0.0213 * x + 0.0128
R = 0.9999
DL = 0.04351
BEC = 0.5988

Weight: <None>
Min Conc: <None>

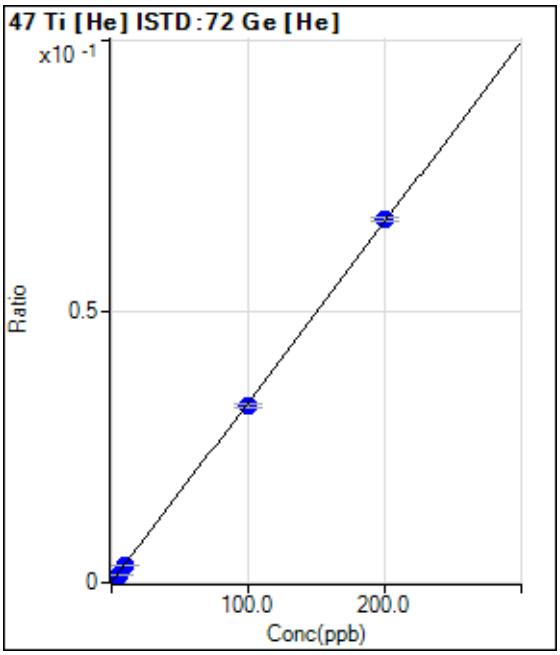



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 706.70 | 0.0016 | P | 8.9 |
| 2 | ☐ | 200.000 | 199.288 | 6331.59 | 0.0145 | P | 3.6 |
| 3 | ☐ | 500.000 | 496.838 | 14694.79 | 0.0337 | P | 3.8 |
| 4 | ☐ | 1000.000 | 978.566 | 28205.95 | 0.0649 | P | 3.2 |
| 5 | ☐ | 10000.000 | 9863.498 | 275729.40 | 0.6389 | P | 0.8 |
| 6 | ☐ | 20000.000 | 20069.409 | 546590.45 | 1.2983 | P | 0.8 |

y = 6.4611E-005 * x + 0.0016
R = 1.0000
DL = 6.722
BEC = 25.19

Weight: <None>
Min Conc: <None>

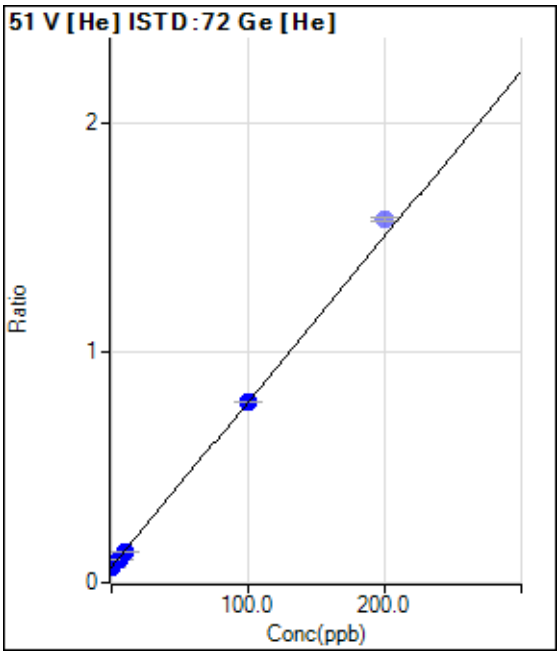
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 26.67 | 0.0001 | P | 57.0 |
| 2 | ☐ | 2.000 | 1.654 | 266.68 | 0.0006 | P | 12.3 |
| 3 | ☐ | 5.000 | 4.147 | 626.69 | 0.0014 | P | 2.8 |
| 4 | ☐ | 10.000 | 9.188 | 1353.42 | 0.0031 | P | 2.5 |
| 5 | ☐ | 100.000 | 98.002 | 14064.07 | 0.0326 | P | 2.0 |
| 6 | ☐ | 200.000 | 201.064 | 28125.78 | 0.0668 | P | 1.2 |

y = 3.3196E-004 * x + 6.1227E-005
R = 0.9999
DL = 0.3156
BEC = 0.1844

Weight: <None>
Min Conc: <None>

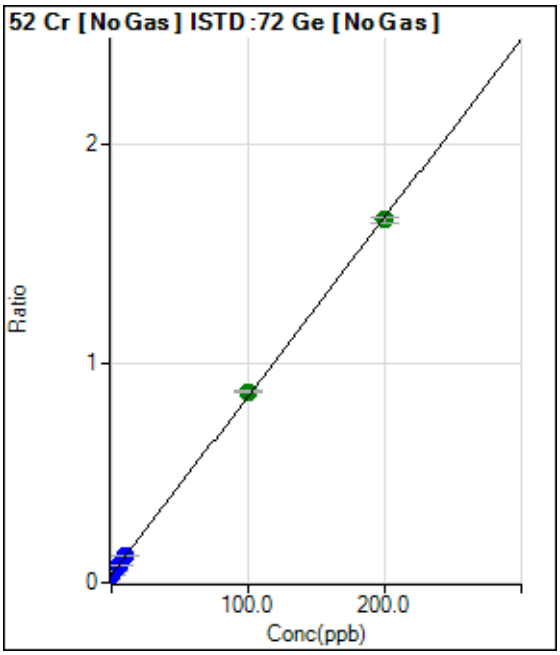



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 29625.28 | 0.0682 | P | 2.1 |
| 2 | ☐ | 2.000 | 2.138 | 36481.75 | 0.0836 | P | 0.8 |
| 3 | ☐ | 5.000 | 4.905 | 45052.64 | 0.1034 | P | 1.5 |
| 4 | ☐ | 10.000 | 9.020 | 57831.32 | 0.1329 | P | 1.3 |
| 5 | ☐ | 100.000 | 100.100 | 339463.39 | 0.7866 | P | 0.6 |
| 6 | ☑ | 200.000 | | 663371.24 | 1.5758 | P | 0.9 |

y = 0.0072 * x + 0.0682
R = 0.9999
DL = 0.6034
BEC = 9.505

Weight: <None>
Min Conc: <None>

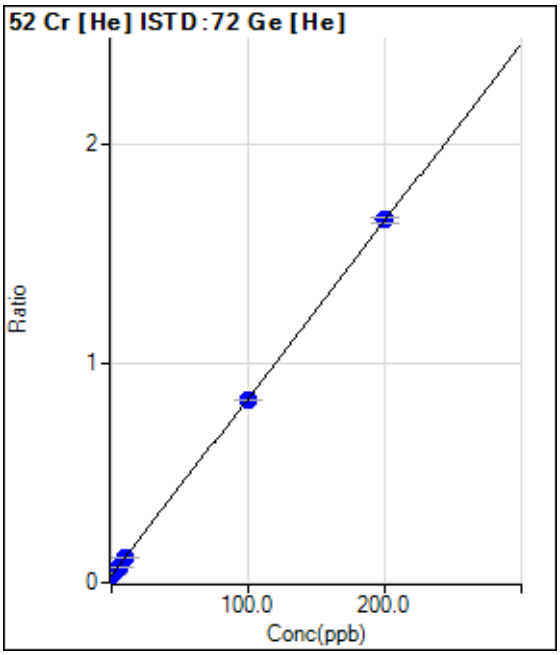
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 50677.31 | 0.0370 | P | 2.7 |
| 2 | ☐ | 2.000 | 2.095 | 74572.38 | 0.0541 | P | 1.2 |
| 3 | ☐ | 5.000 | 5.364 | 109578.38 | 0.0807 | P | 1.8 |
| 4 | ☐ | 10.000 | 10.418 | 166374.33 | 0.1219 | P | 0.8 |
| 5 | ☐ | 100.000 | 102.508 | 1185350.45 | 0.8718 | A | 0.8 |
| 6 | ☐ | 200.000 | 198.715 | 2218290.07 | 1.6553 | A | 1.8 |

y = 0.0081 * x + 0.0370
R = 0.9999
DL = 0.3639
BEC = 4.547

Weight: <None>
Min Conc: <None>

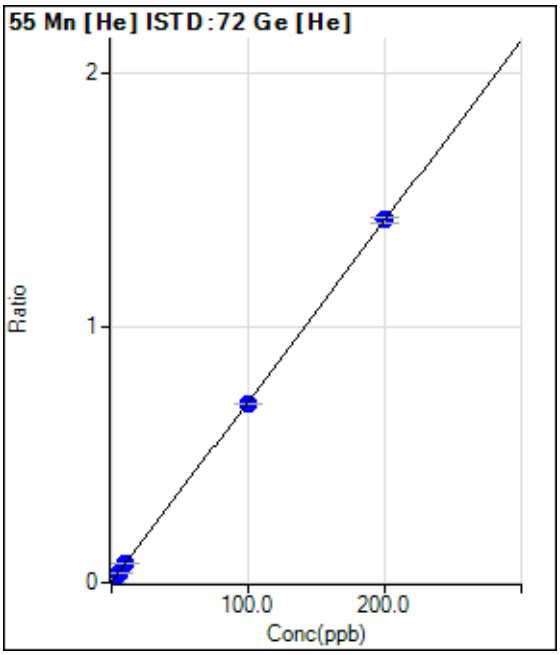



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 14417.85 | 0.0332 | P | 2.0 |
| 2 | ☐ | 2.000 | 1.712 | 20538.98 | 0.0470 | P | 2.2 |
| 3 | ☐ | 5.000 | 4.839 | 31503.34 | 0.0723 | P | 3.1 |
| 4 | ☐ | 10.000 | 9.812 | 48947.61 | 0.1126 | P | 3.7 |
| 5 | ☐ | 100.000 | 98.625 | 358532.86 | 0.8308 | P | 0.2 |
| 6 | ☐ | 200.000 | 200.704 | 697270.02 | 1.6564 | P | 1.8 |

y = 0.0081 * x + 0.0332
R = 1.0000
DL = 0.2409
BEC = 4.105

Weight: <None>
Min Conc: <None>

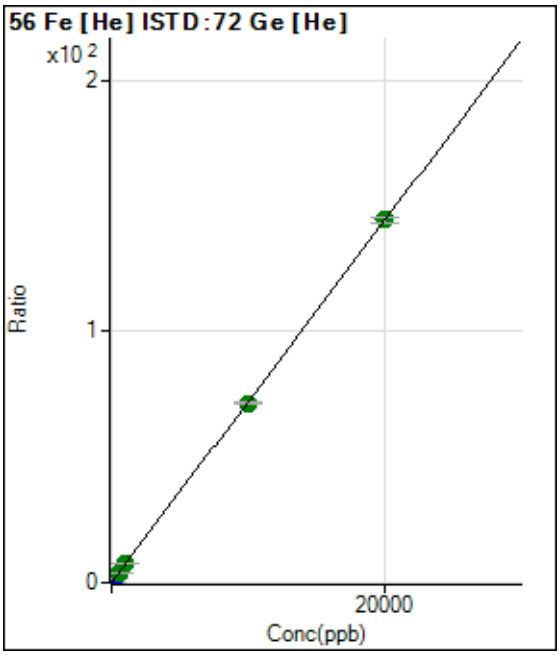
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 586.69 | 0.0013 | P | 16.8 |
| 2 | ☐ | 2.000 | 1.956 | 6638.38 | 0.0152 | P | 2.9 |
| 3 | ☐ | 5.000 | 5.023 | 16089.70 | 0.0369 | P | 0.5 |
| 4 | ☐ | 10.000 | 10.035 | 31509.85 | 0.0724 | P | 0.6 |
| 5 | ☐ | 100.000 | 98.839 | 302702.48 | 0.7015 | P | 0.6 |
| 6 | ☐ | 200.000 | 200.579 | 598668.18 | 1.4221 | P | 1.3 |

y = 0.0071 * x + 0.0013
R = 1.0000
DL = 0.09596
BEC = 0.1906

Weight: <None>
Min Conc: <None>

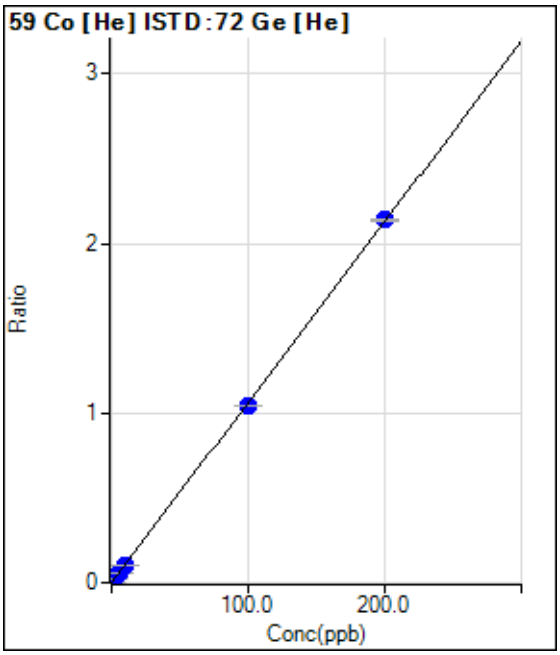



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 45984.42 | 0.1059 | P | 2.6 |
| 2 | ☐ | 200.000 | 209.354 | 704707.44 | 1.6141 | P | 0.8 |
| 3 | ☐ | 500.000 | 510.986 | 1649457.89 | 3.7871 | A | 2.4 |
| 4 | ☐ | 1000.000 | 1003.690 | 3191537.87 | 7.3366 | A | 0.6 |
| 5 | ☐ | 10000.000 | 9905.044 | 30838657.04 | 71.4634 | A | 0.7 |
| 6 | ☐ | 20000.000 | 20046.925 | 60835224.09 | 144.5272 | A | 1.9 |

y = 0.0072 * x + 0.1059
R = 1.0000
DL = 1.134
BEC = 14.7

Weight: <None>
Min Conc: <None>

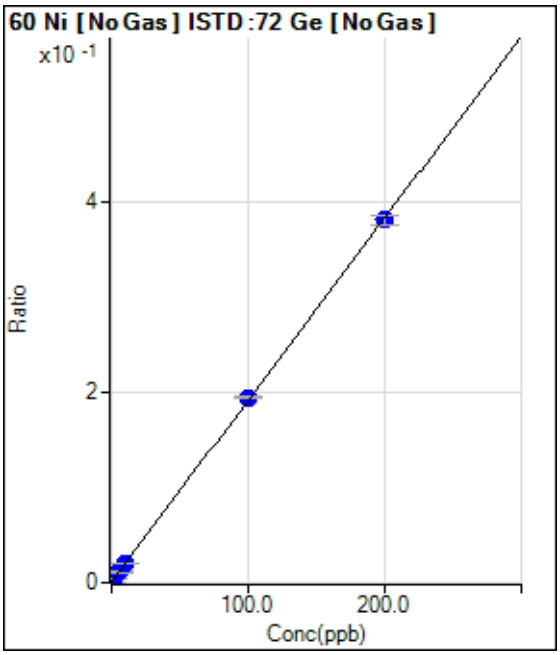
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 53.33 | 0.0001 | P | 28.8 |
| 2 | ☐ | 2.000 | 2.054 | 9596.87 | 0.0220 | P | 2.7 |
| 3 | ☐ | 5.000 | 5.069 | 23554.05 | 0.0541 | P | 3.7 |
| 4 | ☐ | 10.000 | 9.882 | 45800.60 | 0.1053 | P | 1.4 |
| 5 | ☐ | 100.000 | 97.923 | 449795.70 | 1.0423 | P | 0.6 |
| 6 | ☐ | 200.000 | 201.042 | 900779.41 | 2.1397 | P | 0.4 |

y = 0.0106 * x + 1.2286E-004
R = 0.9999
DL = 0.009968
BEC = 0.01154

Weight: <None>
Min Conc: <None>

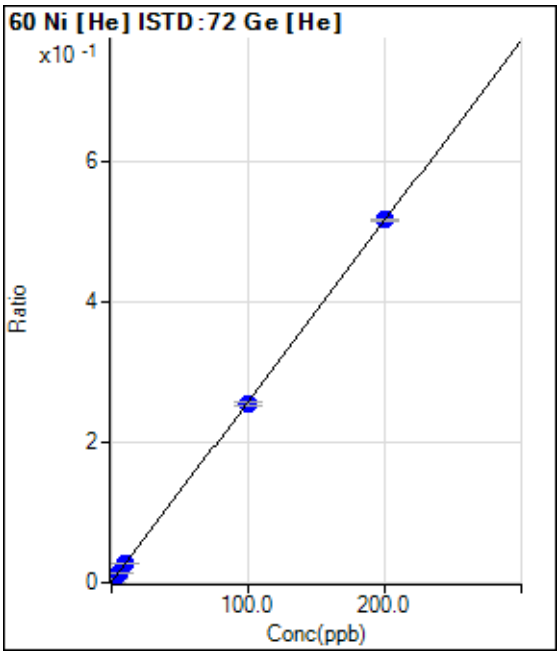



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1123.40 | 0.0008 | P | 7.9 |
| 2 | ☐ | 2.000 | 2.073 | 6578.36 | 0.0048 | P | 5.5 |
| 3 | ☐ | 5.000 | 5.404 | 15108.65 | 0.0111 | P | 5.3 |
| 4 | ☐ | 10.000 | 10.268 | 27862.04 | 0.0204 | P | 3.4 |
| 5 | ☐ | 100.000 | 101.563 | 264514.92 | 0.1946 | P | 1.2 |
| 6 | ☐ | 200.000 | 199.194 | 510197.21 | 0.3808 | P | 2.8 |

y = 0.0019 * x + 8.2118E-004
R = 1.0000
DL = 0.1026
BEC = 0.4305

Weight: <None>
Min Conc: <None>

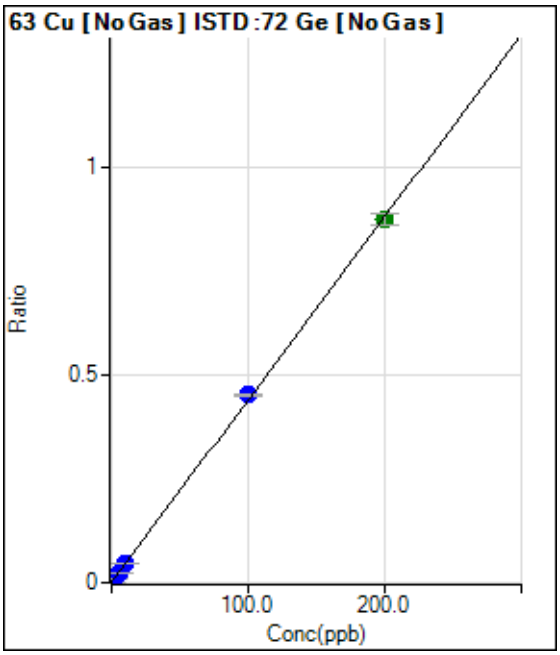
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 430.01 | 0.0010 | P | 19.5 |
| 2 | ☐ | 2.000 | 2.089 | 2780.35 | 0.0064 | P | 4.2 |
| 3 | ☐ | 5.000 | 4.957 | 5984.75 | 0.0138 | P | 8.3 |
| 4 | ☐ | 10.000 | 10.165 | 11815.33 | 0.0272 | P | 0.4 |
| 5 | ☐ | 100.000 | 99.015 | 110438.46 | 0.2559 | P | 2.3 |
| 6 | ☐ | 200.000 | 200.484 | 217689.80 | 0.5171 | P | 0.6 |

y = 0.0026 * x + 9.8962E-004
R = 1.0000
DL = 0.2245
BEC = 0.3844

Weight: <None>
Min Conc: <None>

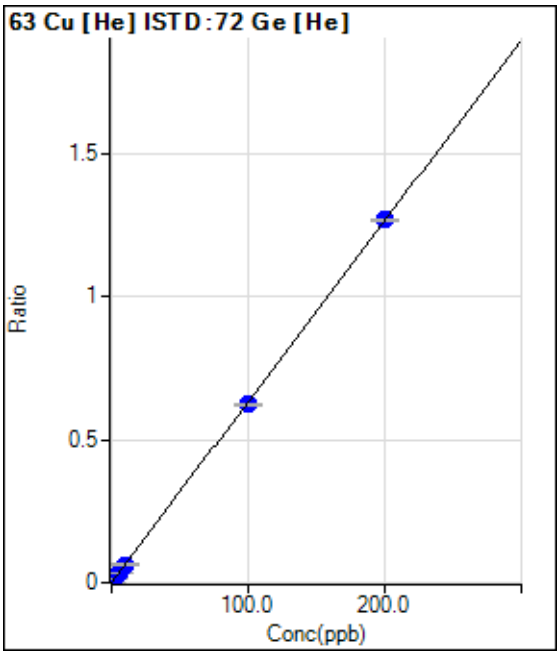



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1090.06 | 0.0008 | P | 14.1 |
| 2 | ☐ | 2.000 | 2.151 | 14147.59 | 0.0103 | P | 2.2 |
| 3 | ☐ | 5.000 | 5.311 | 32819.90 | 0.0242 | P | 2.1 |
| 4 | ☐ | 10.000 | 10.435 | 63786.06 | 0.0467 | P | 0.7 |
| 5 | ☐ | 100.000 | 102.875 | 616693.68 | 0.4536 | P | 1.1 |
| 6 | ☐ | 200.000 | 198.531 | 1171739.83 | 0.8746 | A | 3.2 |

y = 0.0044 * x + 7.9676E-004
R = 0.9999
DL = 0.07651
BEC = 0.181

Weight: <None>
Min Conc: <None>

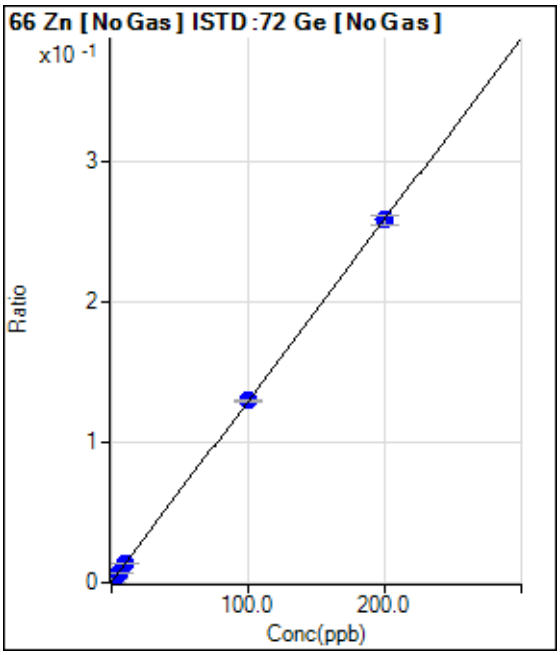
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 226.67 | 0.0005 | P | 45.1 |
| 2 | ☐ | 2.000 | 2.080 | 5971.41 | 0.0137 | P | 5.0 |
| 3 | ☐ | 5.000 | 5.012 | 14030.77 | 0.0322 | P | 5.6 |
| 4 | ☐ | 10.000 | 9.973 | 27671.81 | 0.0636 | P | 1.9 |
| 5 | ☐ | 100.000 | 98.633 | 269514.39 | 0.6245 | P | 1.3 |
| 6 | ☐ | 200.000 | 200.684 | 534684.00 | 1.2701 | P | 0.8 |

y = 0.0063 * x + 5.2130E-004
R = 1.0000
DL = 0.1115
BEC = 0.0824

Weight: <None>
Min Conc: <None>

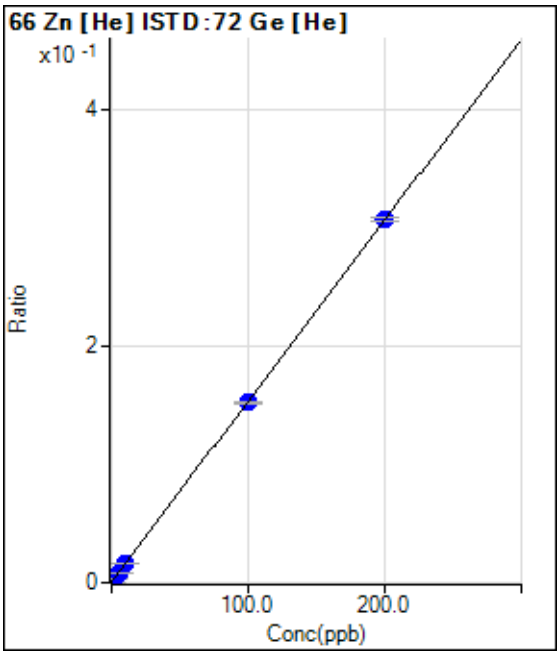



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 656.69 | 0.0005 | P | 5.0 |
| 2 | ☐ | 2.000 | 2.101 | 4404.13 | 0.0032 | P | 4.1 |
| 3 | ☐ | 5.000 | 5.194 | 9763.68 | 0.0072 | P | 2.7 |
| 4 | ☐ | 10.000 | 10.048 | 18379.41 | 0.0135 | P | 3.4 |
| 5 | ☐ | 100.000 | 100.308 | 176877.90 | 0.1301 | P | 1.1 |
| 6 | ☐ | 200.000 | 199.838 | 346655.59 | 0.2587 | P | 2.7 |

y = 0.0013 * x + 4.7955E-004
R = 1.0000
DL = 0.05602
BEC = 0.3711

Weight: <None>
Min Conc: <None>

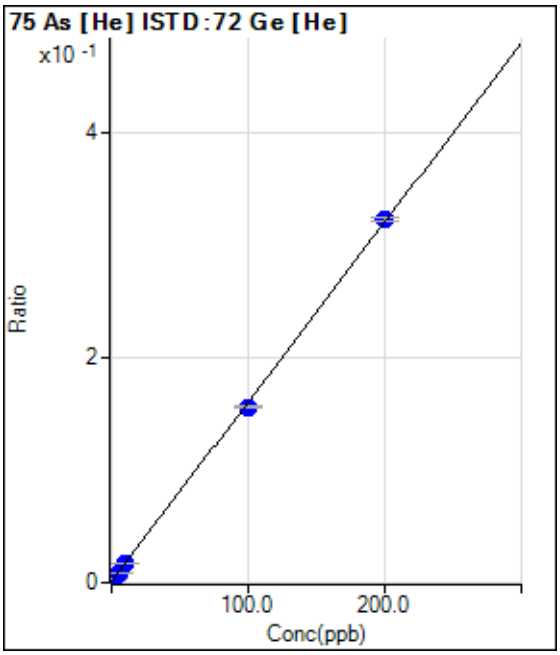
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 266.67 | 0.0006 | P | 38.6 |
| 2 | ☐ | 2.000 | 1.811 | 1476.77 | 0.0034 | P | 16.0 |
| 3 | ☐ | 5.000 | 4.769 | 3443.84 | 0.0079 | P | 0.7 |
| 4 | ☐ | 10.000 | 9.846 | 6815.18 | 0.0157 | P | 2.0 |
| 5 | ☐ | 100.000 | 99.398 | 65829.96 | 0.1526 | P | 1.0 |
| 6 | ☐ | 200.000 | 200.316 | 129164.69 | 0.3068 | P | 1.2 |

y = 0.0015 * x + 6.1553E-004
R = 1.0000
DL = 0.4664
BEC = 0.4027

Weight: <None>
Min Conc: <None>

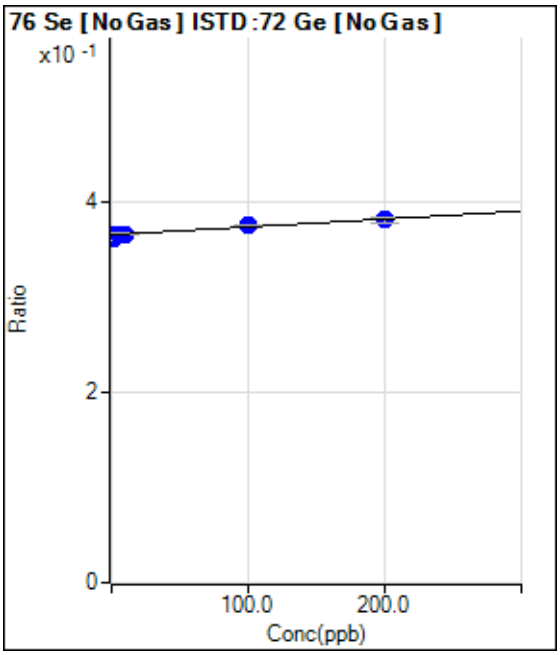



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 487.79 | 0.0011 | P | 3.1 |
| 2 | ☐ | 2.000 | 1.807 | 1747.90 | 0.0040 | P | 0.9 |
| 3 | ☐ | 5.000 | 4.804 | 3826.12 | 0.0088 | P | 2.8 |
| 4 | ☐ | 10.000 | 9.732 | 7238.64 | 0.0166 | P | 2.2 |
| 5 | ☐ | 100.000 | 97.229 | 67370.34 | 0.1561 | P | 0.4 |
| 6 | ☐ | 200.000 | 201.406 | 135628.21 | 0.3222 | P | 1.2 |

y = 0.0016 * x + 0.0011
R = 0.9999
DL = 0.06571
BEC = 0.7046

Weight: <None>
Min Conc: <None>

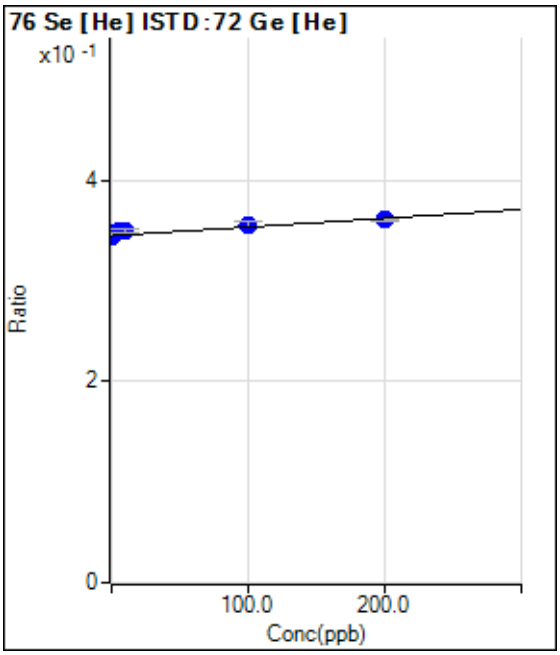
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 500798.13 | 0.3658 | P | 0.6 |
| 2 | ☐ | 2.000 | -41.179 | 499646.87 | 0.3624 | P | 1.4 |
| 3 | ☐ | 5.000 | 1.637 | 496983.51 | 0.3660 | P | 0.3 |
| 4 | ☐ | 10.000 | 8.383 | 500371.20 | 0.3665 | P | 0.4 |
| 5 | ☐ | 100.000 | 125.709 | 511645.08 | 0.3763 | P | 0.2 |
| 6 | ☐ | 200.000 | 187.742 | 511200.25 | 0.3815 | P | 1.9 |

y = 8.3267E-005 * x + 0.3658
R = 0.9693
DL = 74.54
BEC = 4394

Weight: <None>
Min Conc: <None>

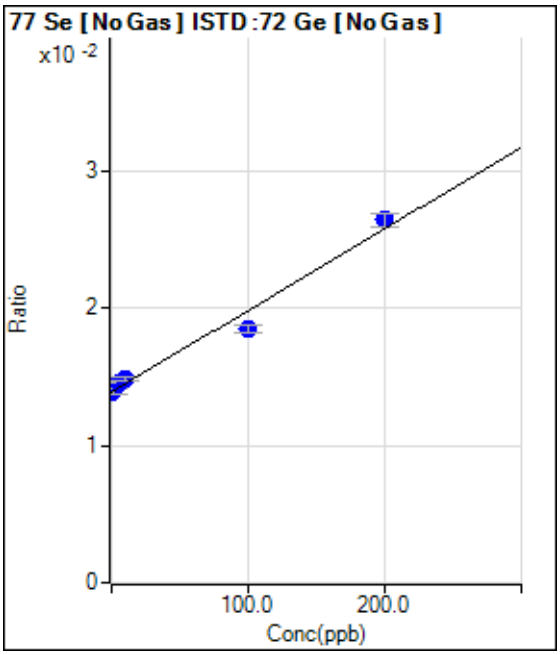



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 149977.15 | 0.3453 | P | 1.3 |
| 2 | ☐ | 2.000 | 28.737 | 151867.13 | 0.3478 | P | 1.2 |
| 3 | ☐ | 5.000 | 54.264 | 152470.54 | 0.3500 | P | 1.7 |
| 4 | ☐ | 10.000 | 52.640 | 152198.10 | 0.3499 | P | 1.2 |
| 5 | ☐ | 100.000 | 131.123 | 153954.59 | 0.3567 | P | 1.6 |
| 6 | ☐ | 200.000 | 180.807 | 151989.18 | 0.3610 | P | 0.8 |

y = 8.7029E-005 * x + 0.3453
R = 0.9549
DL = 150.5
BEC = 3968

Weight: <None>
Min Conc: <None>

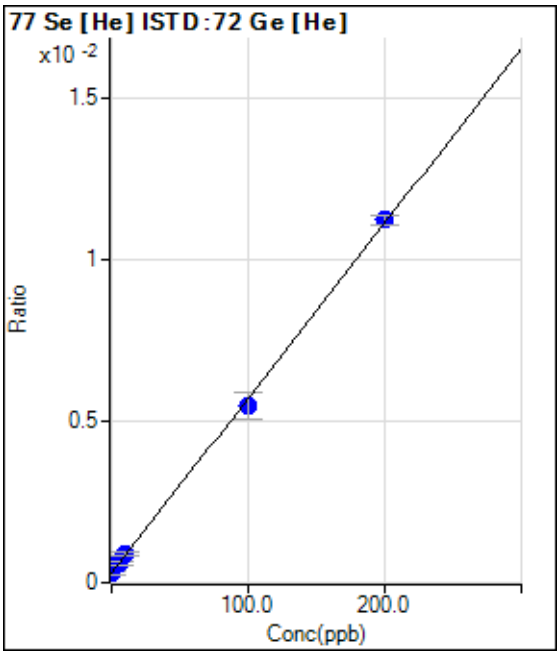
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 19063.86 | 0.0139 | P | 3.2 |
| 2 | ☐ | 2.000 | 0.895 | 19270.62 | 0.0140 | P | 3.3 |
| 3 | ☐ | 5.000 | 12.311 | 19904.99 | 0.0147 | P | 0.7 |
| 4 | ☐ | 10.000 | 15.330 | 20258.82 | 0.0148 | P | 1.8 |
| 5 | ☐ | 100.000 | 77.428 | 25193.90 | 0.0185 | P | 2.6 |
| 6 | ☐ | 200.000 | 210.848 | 35467.00 | 0.0265 | P | 3.5 |

y = 5.9487E-005 * x + 0.0139
R = 0.9895
DL = 22.25
BEC = 234.1

Weight: <None>
Min Conc: <None>

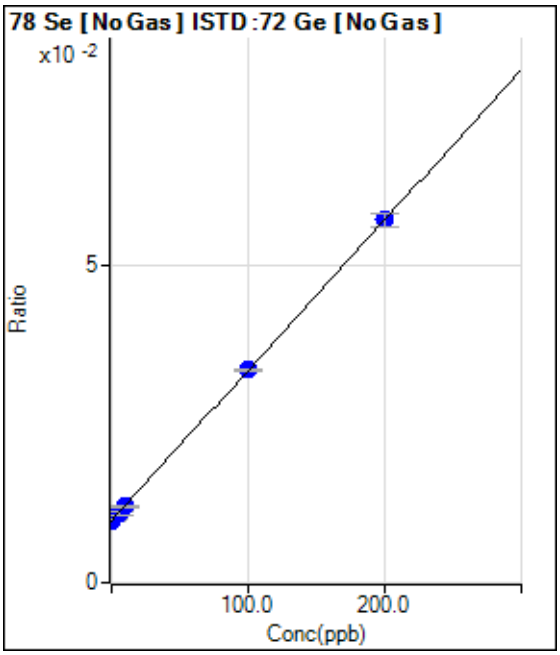



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 130.00 | 0.0003 | P | 22.6 |
| 2 | ☐ | 2.000 | 4.065 | 226.68 | 0.0005 | P | 9.7 |
| 3 | ☐ | 5.000 | 5.497 | 260.01 | 0.0006 | P | 18.0 |
| 4 | ☐ | 10.000 | 10.877 | 386.68 | 0.0009 | P | 13.7 |
| 5 | ☐ | 100.000 | 95.880 | 2370.25 | 0.0055 | P | 15.0 |
| 6 | ☐ | 200.000 | 201.983 | 4734.24 | 0.0112 | P | 2.8 |

y = 5.4184E-005 * x + 2.9911E-004
R = 0.9996
DL = 3.735
BEC = 5.52

Weight: <None>
Min Conc: <None>

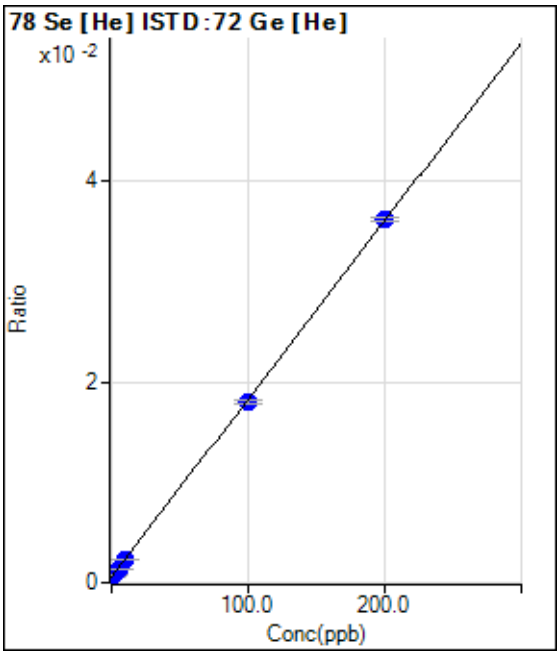
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 13396.89 | 0.0098 | P | 2.7 |
| 2 | ☐ | 2.000 | 1.538 | 13987.49 | 0.0101 | P | 3.2 |
| 3 | ☐ | 5.000 | 4.552 | 14748.31 | 0.0109 | P | 4.4 |
| 4 | ☐ | 10.000 | 9.277 | 16353.48 | 0.0120 | P | 1.1 |
| 5 | ☐ | 100.000 | 100.127 | 45517.22 | 0.0335 | P | 0.8 |
| 6 | ☐ | 200.000 | 199.988 | 76496.47 | 0.0571 | P | 3.4 |

y = 2.3660E-004 * x + 0.0098
R = 1.0000
DL = 3.383
BEC = 41.36

Weight: <None>
Min Conc: <None>

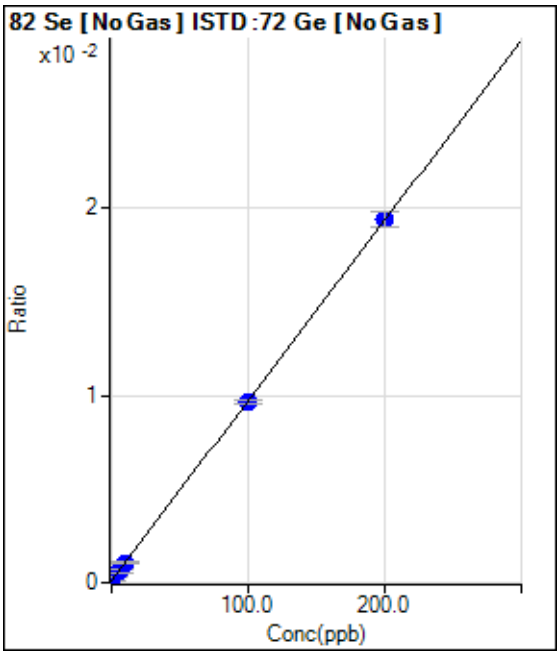



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 245.33 | 0.0006 | P | 2.0 |
| 2 | ☐ | 2.000 | 1.355 | 351.34 | 0.0008 | P | 2.7 |
| 3 | ☐ | 5.000 | 4.809 | 617.35 | 0.0014 | P | 1.4 |
| 4 | ☐ | 10.000 | 9.783 | 1000.04 | 0.0023 | P | 4.4 |
| 5 | ☐ | 100.000 | 98.731 | 7790.27 | 0.0181 | P | 1.8 |
| 6 | ☐ | 200.000 | 200.657 | 15200.55 | 0.0361 | P | 0.9 |

y = 1.7714E-004 * x + 5.6489E-004
R = 1.0000
DL = 0.1933
BEC = 3.189

Weight: <None>
Min Conc: <None>

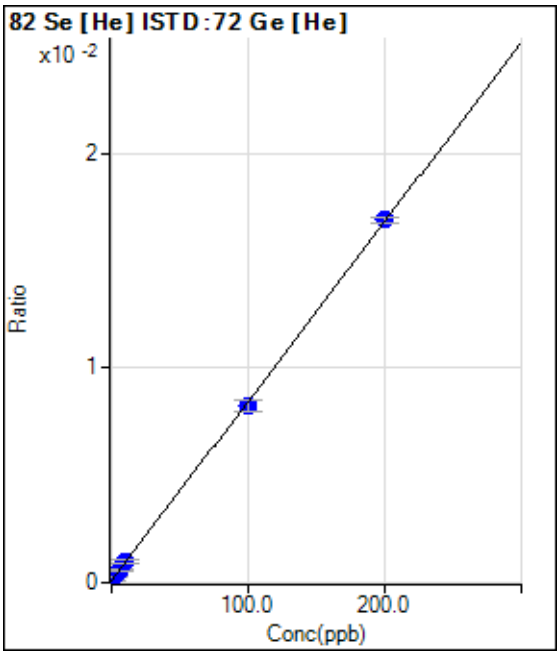
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 158.72 | 0.0001 | P | 49.9 |
| 2 | ☐ | 2.000 | 2.568 | 499.27 | 0.0004 | P | 19.2 |
| 3 | ☐ | 5.000 | 5.204 | 838.85 | 0.0006 | P | 26.7 |
| 4 | ☐ | 10.000 | 10.005 | 1472.39 | 0.0011 | P | 3.2 |
| 5 | ☐ | 100.000 | 99.265 | 13148.91 | 0.0097 | P | 2.6 |
| 6 | ☐ | 200.000 | 200.356 | 25984.38 | 0.0194 | P | 4.2 |

y = 9.6243E-005 * x + 1.1571E-004
R = 1.0000
DL = 1.8
BEC = 1.202

Weight: <None>
Min Conc: <None>

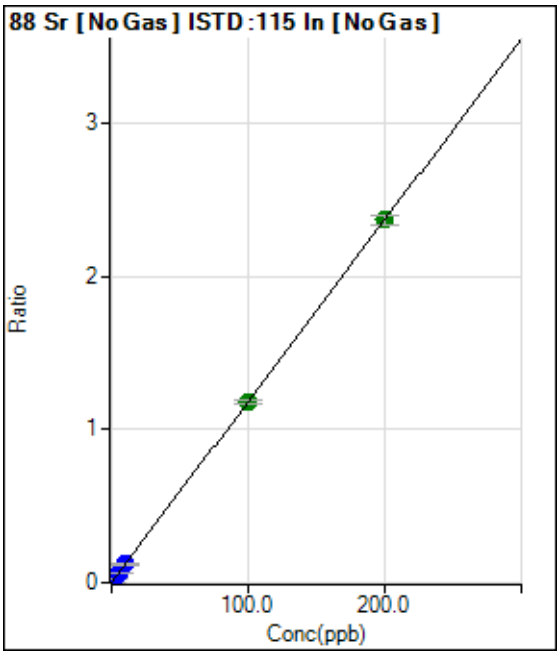



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 40.00 | 0.0001 | P | 42.7 |
| 2 | ☐ | 2.000 | 2.104 | 116.67 | 0.0003 | P | 28.3 |
| 3 | ☐ | 5.000 | 5.502 | 240.01 | 0.0006 | P | 12.8 |
| 4 | ☐ | 10.000 | 10.645 | 426.68 | 0.0010 | P | 14.4 |
| 5 | ☐ | 100.000 | 97.612 | 3560.54 | 0.0082 | P | 7.2 |
| 6 | ☐ | 200.000 | 201.148 | 7115.33 | 0.0169 | P | 1.7 |

y = 8.3577E-005 * x + 9.1851E-005
R = 0.9999
DL = 1.409
BEC = 1.099

Weight: <None>
Min Conc: <None>

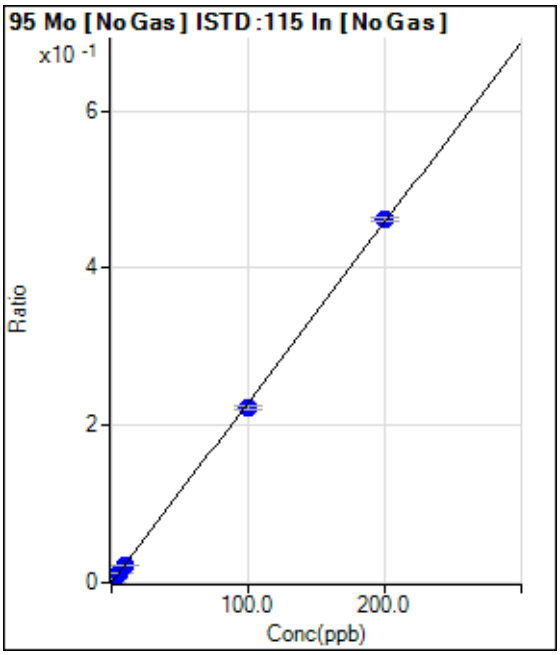
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1363.43 | 0.0009 | P | 8.6 |
| 2 | ☐ | 2.000 | 2.062 | 39715.93 | 0.0253 | P | 2.9 |
| 3 | ☐ | 5.000 | 5.197 | 96472.05 | 0.0623 | P | 1.6 |
| 4 | ☐ | 10.000 | 10.130 | 189938.47 | 0.1207 | P | 2.5 |
| 5 | ☐ | 100.000 | 99.619 | 1828631.54 | 1.1788 | A | 1.3 |
| 6 | ☐ | 200.000 | 200.178 | 3550388.38 | 2.3678 | A | 2.6 |

y = 0.0118 * x + 8.7790E-004
R = 1.0000
DL = 0.01917
BEC = 0.07425

Weight: <None>
Min Conc: <None>

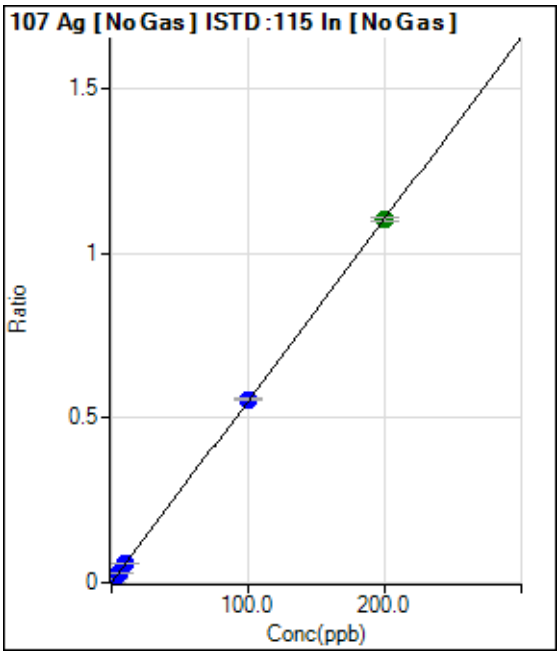



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 650.03 | 0.0004 | P | 18.7 |
| 2 | ☐ | 2.000 | 1.882 | 7435.55 | 0.0047 | P | 4.1 |
| 3 | ☐ | 5.000 | 4.853 | 17845.60 | 0.0115 | P | 2.4 |
| 4 | ☐ | 10.000 | 9.574 | 35159.98 | 0.0223 | P | 3.7 |
| 5 | ☐ | 100.000 | 97.288 | 346132.56 | 0.2231 | P | 2.1 |
| 6 | ☐ | 200.000 | 201.382 | 692097.88 | 0.4615 | P | 1.1 |

y = 0.0023 * x + 4.1934E-004
R = 0.9999
DL = 0.1028
BEC = 0.1832

Weight: <None>
Min Conc: <None>

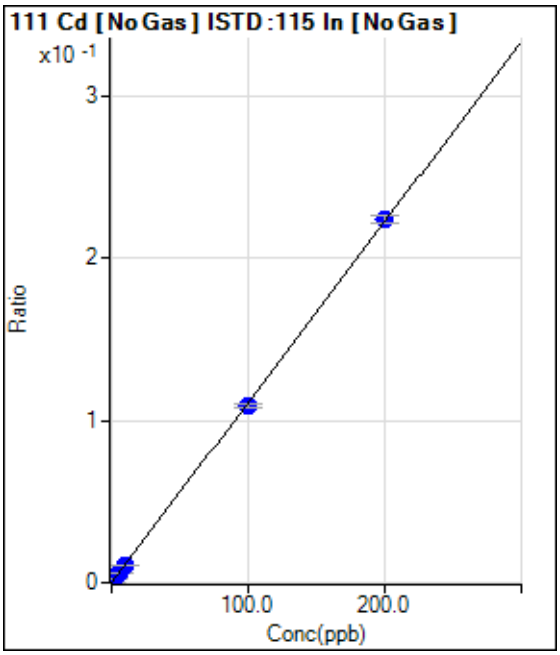
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 700.03 | 0.0005 | P | 10.6 |
| 2 | ☐ | 2.000 | 1.953 | 17675.43 | 0.0112 | P | 2.3 |
| 3 | ☐ | 5.000 | 5.143 | 44669.02 | 0.0289 | P | 3.3 |
| 4 | ☐ | 10.000 | 10.132 | 88836.91 | 0.0564 | P | 1.8 |
| 5 | ☐ | 100.000 | 100.837 | 864873.35 | 0.5575 | P | 1.7 |
| 6 | ☐ | 200.000 | 199.572 | 1654331.64 | 1.1030 | A | 1.0 |

y = 0.0055 * x + 4.5064E-004
R = 1.0000
DL = 0.02589
BEC = 0.08157

Weight: <None>
Min Conc: <None>

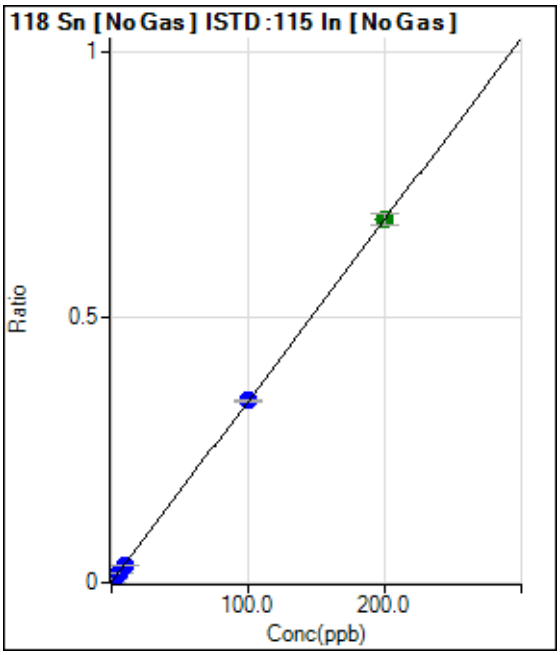



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | -7.40 | 0.0000 | P | -86.7 |
| 2 | ☐ | 2.000 | 1.937 | 3380.87 | 0.0021 | P | 3.9 |
| 3 | ☐ | 5.000 | 5.025 | 8641.10 | 0.0056 | P | 1.8 |
| 4 | ☐ | 10.000 | 9.700 | 16974.29 | 0.0108 | P | 1.7 |
| 5 | ☐ | 100.000 | 97.892 | 168839.82 | 0.1088 | P | 1.9 |
| 6 | ☐ | 200.000 | 201.069 | 335252.45 | 0.2236 | P | 2.2 |

y = 0.0011 * x - 4.7487E-006
R = 0.9999
DL = 0.0111
BEC = -0.004271

Weight: <None>
Min Conc: <None>

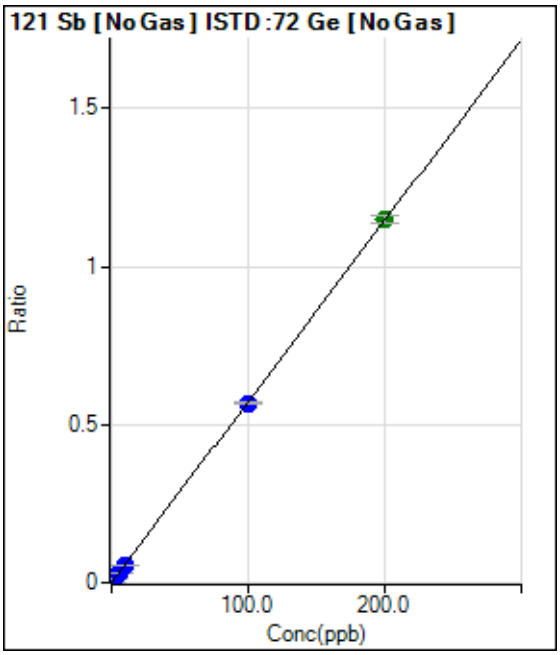
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1203.41 | 0.0008 | P | 5.9 |
| 2 | ☐ | 2.000 | 1.907 | 11475.23 | 0.0073 | P | 1.3 |
| 3 | ☐ | 5.000 | 4.881 | 27028.27 | 0.0175 | P | 0.5 |
| 4 | ☐ | 10.000 | 9.779 | 53867.24 | 0.0342 | P | 0.3 |
| 5 | ☐ | 100.000 | 100.102 | 532044.37 | 0.3430 | P | 1.8 |
| 6 | ☐ | 200.000 | 199.964 | 1026190.69 | 0.6844 | A | 3.1 |

y = 0.0034 * x + 7.7530E-004
R = 1.0000
DL = 0.04003
BEC = 0.2268

Weight: <None>
Min Conc: <None>

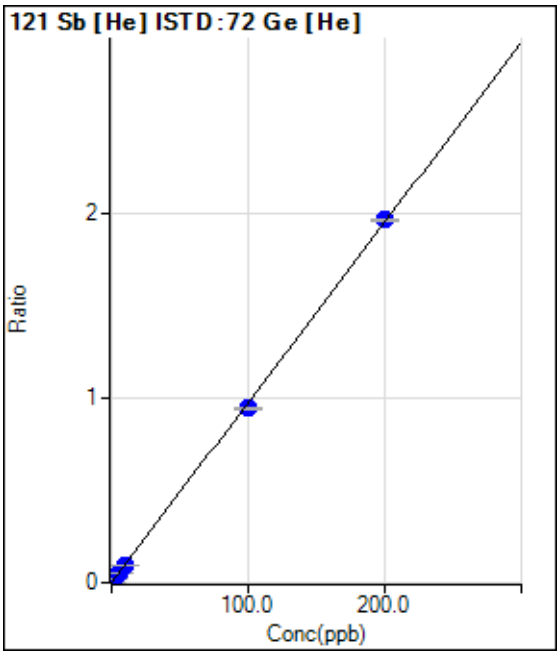



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 613.36 | 0.0004 | P | 8.6 |
| 2 | ☐ | 2.000 | 1.873 | 15382.61 | 0.0112 | P | 3.2 |
| 3 | ☐ | 5.000 | 4.933 | 38914.64 | 0.0287 | P | 2.5 |
| 4 | ☐ | 10.000 | 9.876 | 77732.58 | 0.0569 | P | 1.2 |
| 5 | ☐ | 100.000 | 99.055 | 770959.57 | 0.5671 | P | 0.9 |
| 6 | ☐ | 200.000 | 200.482 | 1537408.36 | 1.1472 | A | 2.1 |

y = 0.0057 * x + 4.4838E-004
R = 1.0000
DL = 0.02015
BEC = 0.07839

Weight: <None>
Min Conc: <None>

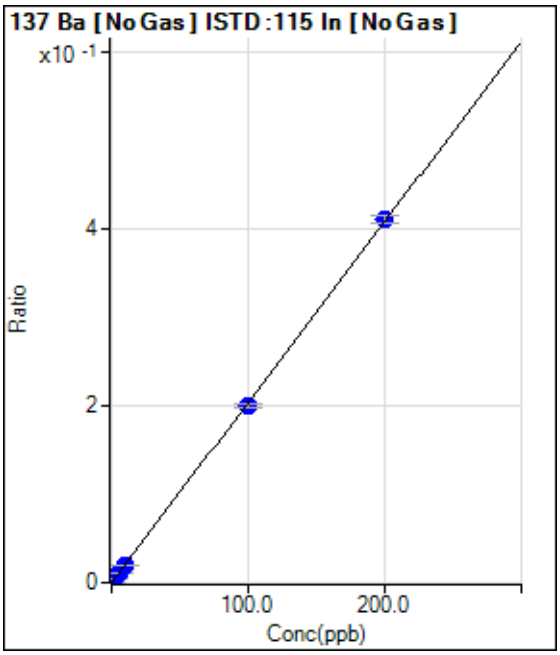
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 323.35 | 0.0007 | P | 37.4 |
| 2 | ☐ | 2.000 | 1.848 | 8192.70 | 0.0188 | P | 3.9 |
| 3 | ☐ | 5.000 | 4.785 | 20649.91 | 0.0474 | P | 1.4 |
| 4 | ☐ | 10.000 | 9.708 | 41495.95 | 0.0954 | P | 4.2 |
| 5 | ☐ | 100.000 | 97.031 | 408612.73 | 0.9468 | P | 1.1 |
| 6 | ☐ | 200.000 | 201.506 | 827434.44 | 1.9655 | P | 0.8 |

y = 0.0098 * x + 7.4473E-004
R = 0.9998
DL = 0.08578
BEC = 0.07638

Weight: <None>
Min Conc: <None>

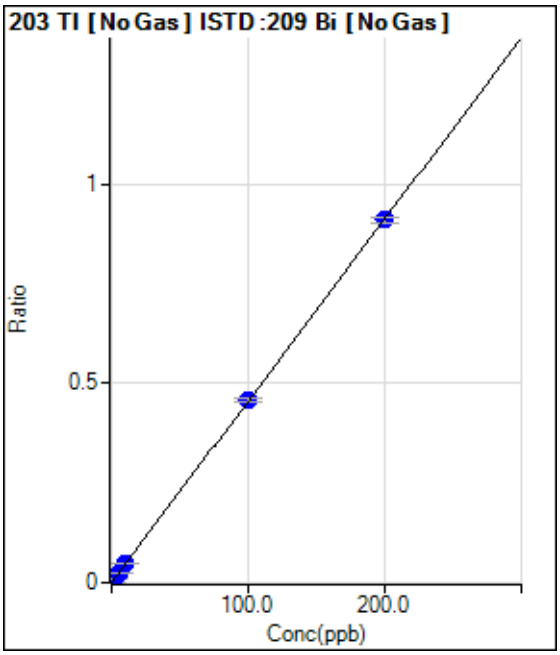



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 150.00 | 0.0001 | P | 18.4 |
| 2 | ☐ | 2.000 | 1.828 | 6008.15 | 0.0038 | P | 8.3 |
| 3 | ☐ | 5.000 | 4.874 | 15522.87 | 0.0100 | P | 2.7 |
| 4 | ☐ | 10.000 | 9.682 | 31211.18 | 0.0198 | P | 2.7 |
| 5 | ☐ | 100.000 | 97.755 | 309132.90 | 0.1993 | P | 2.6 |
| 6 | ☐ | 200.000 | 201.143 | 614806.46 | 0.4100 | P | 2.0 |

y = 0.0020 * x + 9.6727E-005
R = 0.9999
DL = 0.02618
BEC = 0.04747

Weight: <None>
Min Conc: <None>

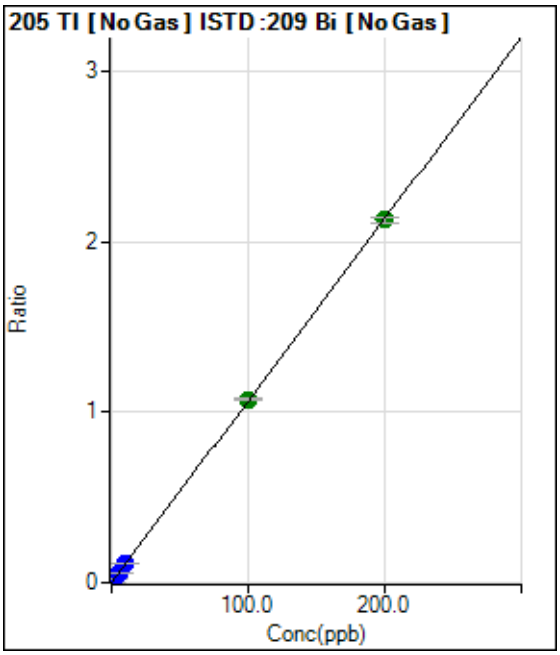
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 173.34 | 0.0002 | P | 27.3 |
| 2 | ☐ | 2.000 | 2.229 | 11088.46 | 0.0103 | P | 3.9 |
| 3 | ☐ | 5.000 | 5.382 | 26728.97 | 0.0247 | P | 1.2 |
| 4 | ☐ | 10.000 | 10.436 | 52209.10 | 0.0477 | P | 2.7 |
| 5 | ☐ | 100.000 | 100.402 | 499334.39 | 0.4572 | P | 2.1 |
| 6 | ☐ | 200.000 | 199.765 | 983252.22 | 0.9095 | P | 1.3 |

y = 0.0046 * x + 1.6022E-004
R = 1.0000
DL = 0.02877
BEC = 0.0352

Weight: <None>
Min Conc: <None>

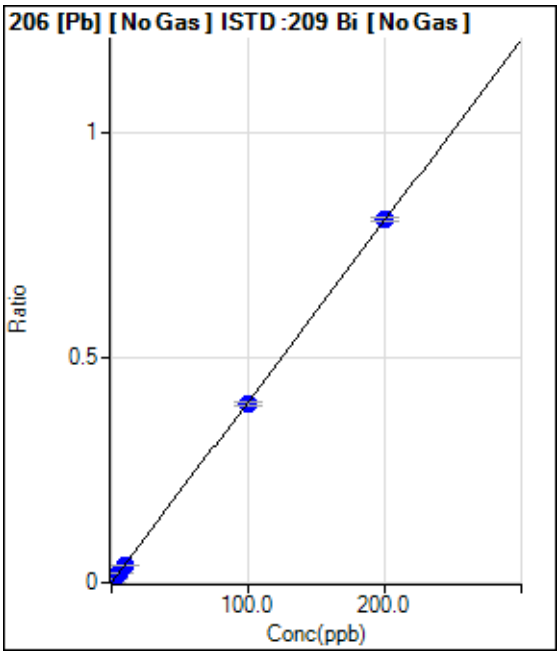



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 473.35 | 0.0004 | P | 19.3 |
| 2 | ☐ | 2.000 | 2.146 | 25132.25 | 0.0234 | P | 0.9 |
| 3 | ☐ | 5.000 | 5.392 | 62898.21 | 0.0580 | P | 1.2 |
| 4 | ☐ | 10.000 | 10.342 | 121443.72 | 0.1109 | P | 1.8 |
| 5 | ☐ | 100.000 | 100.833 | 1176736.13 | 1.0773 | A | 1.3 |
| 6 | ☐ | 200.000 | 199.555 | 2304287.26 | 2.1316 | A | 1.4 |

y = 0.0107 * x + 4.3774E-004
R = 1.0000
DL = 0.02369
BEC = 0.04099

Weight: <None>
Min Conc: <None>

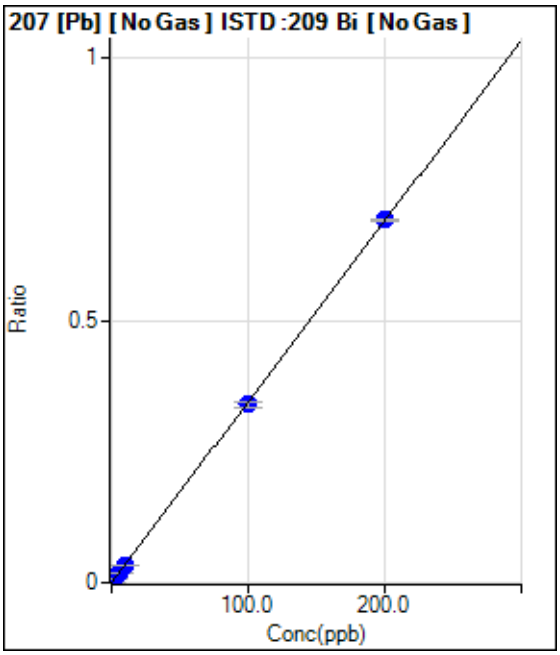
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 206.67 | 0.0002 | P | 8.8 |
| 2 | ☐ | 2.000 | 2.056 | 9090.13 | 0.0084 | P | 3.9 |
| 3 | ☐ | 5.000 | 4.859 | 21355.26 | 0.0197 | P | 1.2 |
| 4 | ☐ | 10.000 | 9.935 | 43900.79 | 0.0401 | P | 1.3 |
| 5 | ☐ | 100.000 | 99.136 | 434935.55 | 0.3983 | P | 2.2 |
| 6 | ☐ | 200.000 | 200.438 | 870258.53 | 0.8050 | P | 1.1 |

y = 0.0040 * x + 1.9096E-004
R = 1.0000
DL = 0.01262
BEC = 0.04756

Weight: <None>
Min Conc: <None>

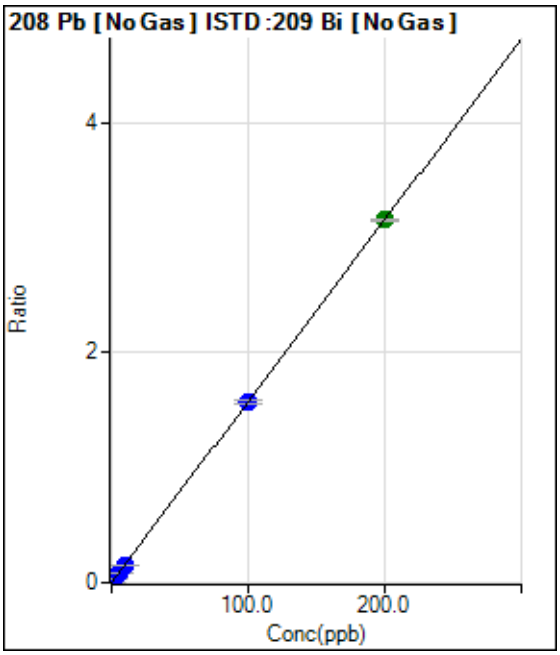



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 190.01 | 0.0002 | P | 15.4 |
| 2 | ☐ | 2.000 | 2.030 | 7709.17 | 0.0072 | P | 3.8 |
| 3 | ☐ | 5.000 | 4.818 | 18173.54 | 0.0168 | P | 0.3 |
| 4 | ☐ | 10.000 | 9.724 | 36868.14 | 0.0337 | P | 2.7 |
| 5 | ☐ | 100.000 | 98.524 | 370676.25 | 0.3394 | P | 2.7 |
| 6 | ☐ | 200.000 | 200.756 | 747534.36 | 0.6915 | P | 0.6 |

y = 0.0034 * x + 1.7571E-004
R = 1.0000
DL = 0.02364
BEC = 0.05103

Weight: <None>
Min Conc: <None>

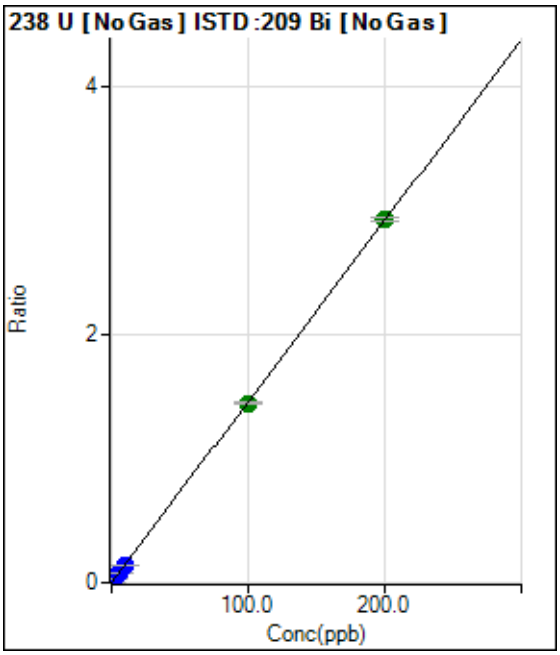
Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 803.37 | 0.0007 | P | 16.4 |
| 2 | ☐ | 2.000 | 2.045 | 35470.29 | 0.0330 | P | 2.9 |
| 3 | ☐ | 5.000 | 4.945 | 85239.63 | 0.0786 | P | 0.8 |
| 4 | ☐ | 10.000 | 9.880 | 171276.18 | 0.1564 | P | 0.7 |
| 5 | ☐ | 100.000 | 99.673 | 1715464.42 | 1.5709 | P | 2.4 |
| 6 | ☐ | 200.000 | 200.170 | 3409565.73 | 3.1539 | A | 0.8 |

y = 0.0158 * x + 7.4350E-004
R = 1.0000
DL = 0.02317
BEC = 0.0472

Weight: <None>
Min Conc: <None>

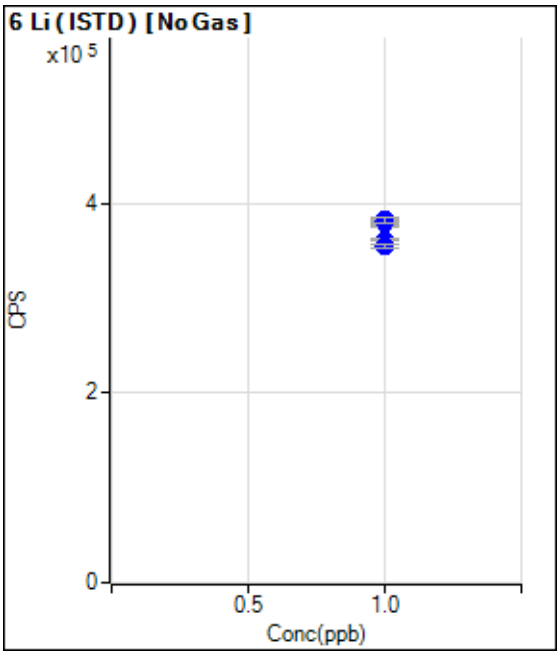



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 373.35 | 0.0003 | P | 19.2 |
| 2 | ☐ | 2.000 | 1.936 | 30728.85 | 0.0285 | P | 1.7 |
| 3 | ☐ | 5.000 | 4.791 | 76022.13 | 0.0701 | P | 0.7 |
| 4 | ☐ | 10.000 | 9.507 | 152045.99 | 0.1388 | P | 1.0 |
| 5 | ☐ | 100.000 | 99.092 | 1577036.23 | 1.4438 | A | 1.6 |
| 6 | ☐ | 200.000 | 200.484 | 3157388.91 | 2.9207 | A | 0.9 |

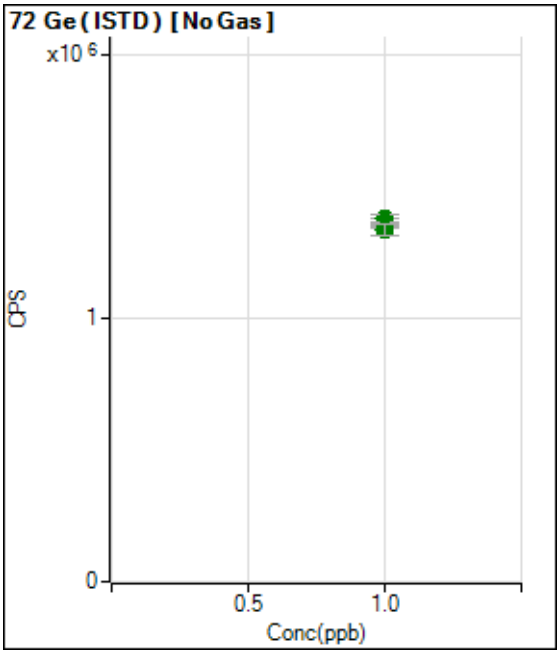
y = 0.0146 * x + 3.4353E-004
R = 1.0000
DL = 0.01361
BEC = 0.02358

Weight: <None>
Min Conc: <None>

Calibration for 020_ICV.d

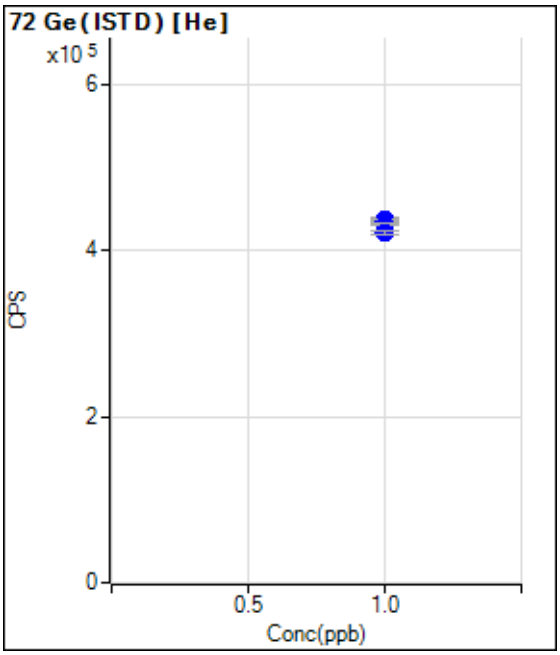



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 382126.43 | | P | 0.8 |
| 2 | ☐ | 1.000 | | 378879.07 | | P | 1.6 |
| 3 | ☐ | 1.000 | | 378112.11 | | P | 1.9 |
| 4 | ☐ | 1.000 | | 381757.62 | | P | 1.5 |
| 5 | ☐ | 1.000 | | 360861.38 | | P | 0.7 |
| 6 | ☐ | 1.000 | | 354731.25 | | P | 1.4 |

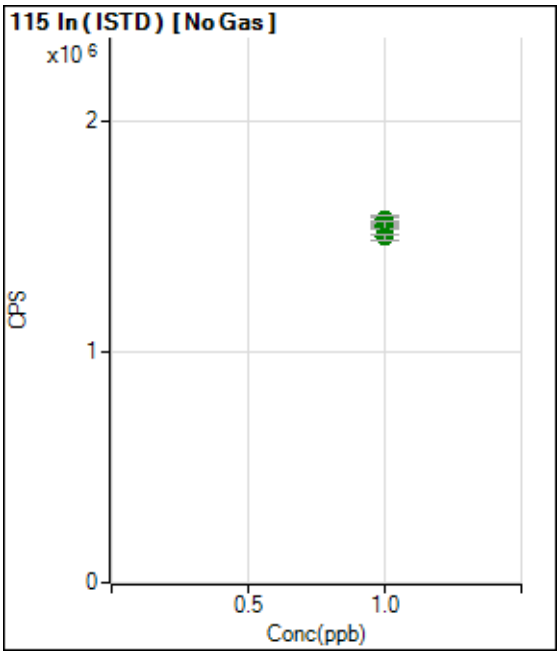



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1368912.79 | | A | 1.3 |
| 2 | ☐ | 1.000 | | 1378992.79 | | A | 2.6 |
| 3 | ☐ | 1.000 | | 1357936.70 | | A | 1.8 |
| 4 | ☐ | 1.000 | | 1365143.42 | | A | 0.6 |
| 5 | ☐ | 1.000 | | 1359648.94 | | A | 1.2 |
| 6 | ☐ | 1.000 | | 1340630.92 | | A | 3.3 |

Calibration for 020_ICV.d

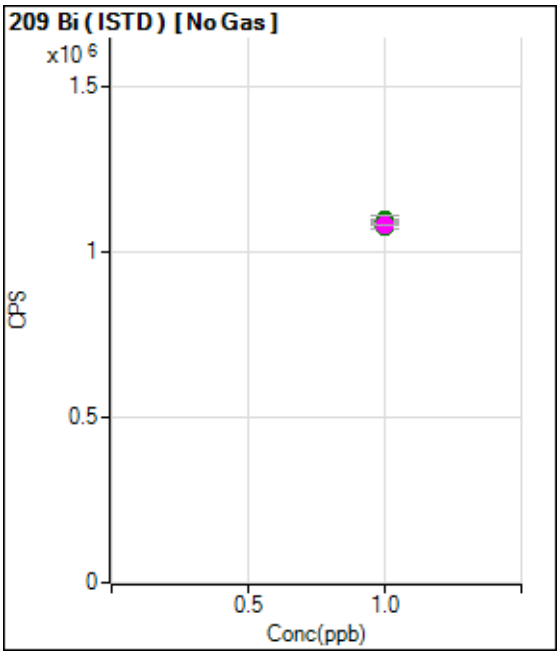



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 434354.13 | | P | 1.0 |
| 2 | ☐ | 1.000 | | 436609.94 | | P | 0.9 |
| 3 | ☐ | 1.000 | | 435689.86 | | P | 2.1 |
| 4 | ☐ | 1.000 | | 435031.73 | | P | 1.4 |
| 5 | ☐ | 1.000 | | 431537.74 | | P | 0.9 |
| 6 | ☐ | 1.000 | | 420984.46 | | P | 1.2 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1552260.58 | | A | 1.1 |
| 2 | ☐ | 1.000 | | 1572902.71 | | A | 1.5 |
| 3 | ☐ | 1.000 | | 1547971.32 | | A | 1.3 |
| 4 | ☐ | 1.000 | | 1574861.98 | | A | 2.4 |
| 5 | ☐ | 1.000 | | 1551610.42 | | A | 2.4 |
| 6 | ☐ | 1.000 | | 1499976.33 | | A | 2.0 |

Calibration for 020_ICV.d




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1083437.77 | | A | 2.6 |
| 2 | ☐ | 1.000 | | 1076245.19 | | A | 1.3 |
| 3 | ☐ | 1.000 | | 1083983.78 | | M | 0.5 |
| 4 | ☐ | 1.000 | | 1095289.67 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 1092506.34 | | A | 2.6 |
| 6 | ☐ | 1.000 | | 1081056.78 | | M | 0.3 |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LLICV2 |
| Data File Name | 022LCV2.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T10:58:39-05:00 |
| Sample Type | LLCCV2 |
| Dilution | 1 |
| Comment | |
| ISTD Ref FileName | 013CALB.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 | 2.002 | 2.002 | 2.56 | 40196 | 0.00 | 2 | |
| Be | 9 | 1 | No Gas | 1.853 | 1.853 | 6.00 | 3749 | 0.05 | 2 | |
| V | 51 | 2 | He | -3.250 | -3.250 | -3.86 | 19393 | -0.02 | 2 | NewName Main CR1 Failed |
| Cr | 52 | 2 | He | 1.614 | 1.614 | 9.80 | 20405 | 0.01 | 2 | |
| Fe | 56 | 2 | He | 200.398 | 200.398 | 0.25 | 683709 | 0.03 | 200 | |
| Se | 78 | 2 | He | 1.479 | 1.479 | 24.06 | 365 | 0.41 | 2 | |
| As | 75 | 2 | He | 1.719 | 1.719 | 3.98 | 1705 | 0.10 | 2 | |
| Ca | 44 | 2 | He | 190.684 | 190.684 | 2.60 | 6155 | 3.10 | 200 | |
| Na | 23 | 2 | He | 214.287 | 214.287 | 0.93 | 160302 | 0.13 | 200 | |
| Mg | 24 | 2 | He | 220.501 | 220.501 | 1.09 | 73547 | 0.30 | 200 | |
| K | 39 | 2 | He | 216.960 | 216.960 | 3.34 | 375320 | 0.06 | 200 | |
| Mn | 55 | 2 | He | 1.905 | 1.905 | 11.71 | 6548 | 0.03 | 2 | |
| Co | 59 | 2 | He | 2.048 | 2.048 | 2.81 | 9670 | 0.02 | 2 | |
| Ni | 60 | 2 | He | 2.108 | 2.108 | 15.84 | 2830 | 0.07 | 2 | |
| Cu | 63 | 2 | He | 1.952 | 1.952 | 1.96 | 5678 | 0.03 | 2 | |
| Zn | 66 | 2 | He | 1.855 | 1.855 | 17.86 | 1523 | 0.12 | 2 | |
| Al | 27 | 2 | He | 2.132 | 2.132 | 35.54 | 1603 | 0.13 | 2 | |
| B | 11 | 1 | No Gas | 12.771 | 12.771 | 4.97 | 19911 | 0.06 | 10 | |
| Al | 27 | 1 | No Gas | 1.762 | 1.762 | 3.67 | 46799 | 0.00 | 2 | |
| Si | 28 | 1 | No Gas | 10.528 | 10.528 | 14.64 | 439298 | 0.00 | 10 | |
| Ag | 107 | 1 | No Gas | 1.937 | 1.937 | 2.68 | 17909 | 0.01 | 2 | |
| Cd | 111 | 1 | No Gas | 1.818 | 1.818 | 4.08 | 3239 | 0.06 | 2 | |
| Sr | 88 | 1 | No Gas | 2.000 | 2.000 | 1.88 | 39395 | 0.01 | 2 | |
| Mo | 95 | 1 | No Gas | 1.826 | 1.826 | 4.68 | 7389 | 0.02 | 2 | |
| Sn | 118 | 1 | No Gas | 1.866 | 1.866 | 4.22 | 11489 | 0.02 | 2 | |
| Sb | 121 | 1 | No Gas | 1.863 | 1.863 | 3.17 | 15499 | 0.01 | 2 | |
| Ba | 137 | 1 | No Gas | 1.913 | 1.913 | 6.85 | 6412 | 0.03 | 2 | |
| Tl | 205 | 1 | No Gas | 2.202 | 2.202 | 1.59 | 26318 | 0.01 | 2 | |
| Tl | 203 | 1 | No Gas | 2.251 | 2.251 | 4.03 | 11432 | 0.02 | 2 | |
| Pb | 208 | 1 | No Gas | 1.957 | 1.957 | 2.29 | 34683 | 0.01 | 2 | |
| U | 238 | 1 | No Gas | 1.856 | 1.856 | 2.37 | 30084 | 0.01 | 2 | |
| Ca | 43 | 2 | He | 198.205 | 198.205 | 19.69 | 383 | 51.70 | 200 | |
| Sb | 121 | 2 | He | 1.787 | 1.787 | 0.89 | 8016 | 0.02 | 2 | |
| Ti | 47 | 2 | He | 1.750 | 1.750 | 22.24 | 283 | 0.62 | 200 | |
| Cu | 63 | 1 | No Gas | 2.126 | 2.126 | 2.92 | 14178 | 0.01 | 2 | |
| Se | 82 | 1 | No Gas | 2.237 | 2.237 | 18.95 | 462 | 0.48 | 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 | 403120 | 1.11 | 382126 | 105.49 | 70 | 120 | |
| Ge | 72 | 2 | He | 441221 | 0.78 | 434354 | 101.58 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1396173 | 1.57 | 1368913 | 101.99 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1606577 | 2.04 | 1552261 | 103.50 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1098838 | 2.22 | 1083438 | 101.42 | 70 | 120 | |

# Initial Calibration Blank (ICB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICB |
| Data File Name | 027_ICB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T11:20:01-05:00 |
| Sample Type | ICB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 013CALB.d |
| Sample QC Pass/Fail | Pass |
| 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 | -0.118 | -35.9 | 27310 | 2.0 | 0.5 | |
| Be | 9 | 1 | No Gas | -0.034 | -24.1 | 28 | 53.9 | 0.5 | |
| V | 51 | 2 | He | -0.405 | -45.4 | 28751 | 1.4 | 2.5 | |
| Cr | 52 | 2 | He | -0.223 | -59.0 | 13847 | 3.1 | 2.5 | |
| Fe | 56 | 2 | He | -7.524 | -1.8 | 22796 | 1.6 | 100 | |
| Se | 78 | 2 | He | -0.584 | -80.4 | 203 | 17.3 | 1 | |
| As | 75 | 2 | He | -0.102 | -56.9 | 423 | 8.8 | 2.5 | |
| Ca | 44 | 2 | He | -0.282 | -137.7 | 710 | 2.4 | 100 | |
| Na | 23 | 2 | He | -12.450 | -22.5 | 40750 | 2.7 | 100 | |
| Mg | 24 | 2 | He | -3.723 | -25.6 | 3117 | 8.9 | 100 | |
| K | 39 | 2 | He | -4.159 | -169.3 | 244949 | 1.1 | 100 | |
| Mn | 55 | 2 | He | 0.043 | 69.2 | 730 | 13.5 | 2.5 | |
| Co | 59 | 2 | He | 0.002 | 335.8 | 63 | 48.2 | 2.5 | |
| Ni | 60 | 2 | He | 0.097 | 28.0 | 547 | 6.4 | 2.5 | |
| Cu | 63 | 2 | He | 0.018 | 20.7 | 280 | 3.6 | 1 | |
| Zn | 66 | 2 | He | 0.295 | 46.5 | 470 | 19.5 | 2.5 | |
| Al | 27 | 2 | He | 0.689 | 78.4 | 1223 | 10.7 | 5 | |
| B | 11 | 1 | No Gas | -0.290 | -154.2 | 6477 | 6.8 | 0.5 | |
| Al | 27 | 1 | No Gas | 0.040 | 312.0 | 33294 | 1.8 | 5 | |
| Si | 28 | 1 | No Gas | -5.698 | -43.2 | 362071 | 2.1 | 10 | |
| Ag | 107 | 1 | No Gas | -0.072 | -5.1 | 87 | 37.1 | 2.5 | |
| Cd | 111 | 1 | No Gas | -0.006 | -234.5 | -19 | -141.2 | 1 | |
| Sr | 88 | 1 | No Gas | 0.010 | 69.6 | 1573 | 7.8 | 2.5 | |
| Mo | 95 | 1 | No Gas | -0.077 | -3.6 | 387 | 1.5 | 2.5 | |
| Sn | 118 | 1 | No Gas | -0.016 | -114.3 | 1143 | 8.9 | 5 | |
| Sb | 121 | 1 | No Gas | -0.056 | -18.5 | 180 | 44.1 | 2.5 | |
| Ba | 137 | 1 | No Gas | 0.112 | 14.2 | 517 | 9.5 | 2.5 | |
| Tl | 205 | 1 | No Gas | -0.032 | -0.5 | 110 | 0.0 | 1 | |
| Tl | 203 | 1 | No Gas | -0.029 | -10.3 | 33 | 45.8 | 1 | |
| Pb | 208 | 1 | No Gas | -0.007 | -106.6 | 697 | 18.2 | 2.5 | |
| U | 238 | 1 | No Gas | -0.021 | -6.1 | 40 | 50.0 | 2.5 | |
| Ca | 43 | 2 | He | -6.459 | -89.6 | 40 | 25.0 | 100 | |
| Sb | 121 | 2 | He | -0.059 | -4.3 | 73 | 15.7 | 2.5 | |
| Ti | 47 | 2 | He | -0.139 | -56.4 | 7 | 173.2 | 2.5 | |
| Se | 82 | 1 | No Gas | -0.356 | -137.0 | 112 | 57.3 | 1 | |

**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 | 387242 | 1.23 | 382126 | 101.34 | 70 | 120 | |

# Initial Calibration Blank (ICB) Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ge | 72 | 2 | He | 441090 | 0.89 | 434354 | 101.55 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1384892 | 1.03 | 1368913 | 101.17 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1585638 | 1.29 | 1552261 | 102.15 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1097937 | 1.67 | 1083438 | 101.34 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LLICV5 |
| Data File Name | 028LCV5.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T11:21:54-05:00 |
| Sample Type | LLCCV5 |
| Dilution | 1 |
| Comment | |
| ISTD Ref FileName | 013CALB.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 | 4.638 | 4.638 | 1.26 | 52304 | 0.01 | 5 | |
| Be | 9 | 1 | No Gas | 4.628 | 4.628 | 1.21 | 8798 | 0.05 | 5 | |
| V | 51 | 2 | He | 3.902 | 3.902 | 1.03 | 43155 | 0.01 | 5 | |
| Cr | 52 | 2 | He | 4.404 | 4.404 | 5.98 | 30501 | 0.01 | 5 | |
| Fe | 56 | 2 | He | 490.357 | 490.357 | 3.14 | 1612927 | 0.03 | 500 | |
| Se | 78 | 2 | He | 4.026 | 4.026 | 6.60 | 567 | 0.71 | 5 | |
| As | 75 | 2 | He | 4.652 | 4.652 | 6.51 | 3784 | 0.12 | 5 | |
| Ca | 44 | 2 | He | 484.759 | 484.759 | 0.76 | 14608 | 3.32 | 500 | |
| Na | 23 | 2 | He | 509.110 | 509.110 | 1.97 | 317193 | 0.16 | 500 | |
| Mg | 24 | 2 | He | 537.144 | 537.144 | 2.19 | 173799 | 0.31 | 500 | |
| K | 39 | 2 | He | 508.917 | 508.917 | 1.45 | 549960 | 0.09 | 500 | |
| Mn | 55 | 2 | He | 4.966 | 4.966 | 4.53 | 16193 | 0.03 | 5 | |
| Co | 59 | 2 | He | 4.975 | 4.975 | 2.66 | 23527 | 0.02 | 5 | |
| Ni | 60 | 2 | He | 4.843 | 4.843 | 6.25 | 5968 | 0.08 | 5 | |
| Cu | 63 | 2 | He | 5.145 | 5.145 | 6.71 | 14662 | 0.04 | 5 | |
| Zn | 66 | 2 | He | 4.767 | 4.767 | 3.83 | 3504 | 0.14 | 5 | |
| Al | 27 | 2 | He | 4.087 | 4.087 | 12.01 | 2127 | 0.19 | 5 | |
| B | 11 | 1 | No Gas | 22.918 | 22.918 | 1.12 | 28763 | 0.08 | 25 | |
| Al | 27 | 1 | No Gas | 4.347 | 4.347 | 2.23 | 65648 | 0.01 | 5 | |
| Si | 28 | 1 | No Gas | 18.571 | 18.571 | 6.44 | 468853 | 0.00 | 25 | |
| Ag | 107 | 1 | No Gas | 5.029 | 5.029 | 2.53 | 44903 | 0.01 | 5 | |
| Cd | 111 | 1 | No Gas | 4.811 | 4.811 | 4.94 | 8501 | 0.06 | 5 | |
| Sr | 88 | 1 | No Gas | 5.040 | 5.040 | 2.73 | 96184 | 0.01 | 5 | |
| Mo | 95 | 1 | No Gas | 4.690 | 4.690 | 2.72 | 17742 | 0.03 | 5 | |
| Sn | 118 | 1 | No Gas | 4.884 | 4.884 | 2.05 | 27790 | 0.02 | 5 | |
| Sb | 121 | 1 | No Gas | 4.811 | 4.811 | 0.54 | 38450 | 0.01 | 5 | |
| Ba | 137 | 1 | No Gas | 4.897 | 4.897 | 4.98 | 16017 | 0.03 | 5 | |
| Tl | 205 | 1 | No Gas | 5.168 | 5.168 | 3.06 | 62526 | 0.01 | 5 | |
| Tl | 203 | 1 | No Gas | 5.107 | 5.107 | 0.87 | 26318 | 0.02 | 5 | |
| Pb | 208 | 1 | No Gas | 4.881 | 4.881 | 1.02 | 87268 | 0.01 | 5 | |
| U | 238 | 1 | No Gas | 4.647 | 4.647 | 0.94 | 76478 | 0.01 | 5 | |
| Ca | 43 | 2 | He | 509.811 | 509.811 | 2.99 | 910 | 56.02 | 500 | |
| Sb | 121 | 2 | He | 4.650 | 4.650 | 1.79 | 20433 | 0.02 | 5 | |
| Ti | 47 | 2 | He | 4.844 | 4.844 | 1.74 | 740 | 0.65 | 5 | |
| Cu | 63 | 1 | No Gas | 5.169 | 5.169 | 2.80 | 32365 | 0.02 | 5 | |
| Se | 82 | 1 | No Gas | 4.807 | 4.807 | 19.67 | 796 | 0.60 | 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 | 384570 | 0.85 | 382126 | 100.64 | 70 | 120 | |
| Ge | 72 | 2 | He | 443339 | 1.08 | 434354 | 102.07 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1374829 | 1.71 | 1368913 | 100.43 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1591198 | 3.02 | 1552261 | 102.51 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1124293 | 1.68 | 1083438 | 103.77 | 70 | 120 | |

# Interference Check Solution A (ICS-A) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICSA |
| Data File Name | 030ICSA.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T11:26:27-05:00 |
| Sample Type | ICSA |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 013CALB.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 | 0.309 | 23.2 | 26577 | 1.5 | 0 | ICSA Main CR1 Failed |
| Be | 9 | 1 | No Gas | -0.037 | -13.8 | 20 | 43.3 | 0 | ICSA Main CR1 Failed |
| V | 51 | 2 | He | -5.000 | -3.9 | 13241 | 4.1 | 0 | ICSA Main CR1 Failed |
| Cr | 52 | 2 | He | 1.484 | 0.6 | 18516 | 0.6 | 0 | ICSA Main CR1 Failed |
| Fe | 56 | 2 | He | 97458.669 | 0.5 | 287647229 | 0.5 | 0 | |
| Se | 78 | 2 | He | -0.138 | -110.4 | 221 | 4.6 | 0 | ICSA Main CR1 Failed |
| As | 75 | 2 | He | 0.170 | 11.8 | 571 | 2.7 | 0 | ICSA Main CR1 Failed |
| Ca | 44 | 2 | He | 95972.849 | 1.7 | 2540808 | 1.9 | 0 | |
| Na | 23 | 2 | He | 96010.581 | 1.8 | 47031071 | 1.5 | 0 | |
| Mg | 24 | 2 | He | 95677.710 | 0.9 | 27902052 | 0.5 | 0 | |
| K | 39 | 2 | He | 96311.599 | 0.8 | 52915344 | 0.6 | 0 | |
| Mn | 55 | 2 | He | 1.235 | 3.1 | 4137 | 2.4 | 0 | ICSA Main CR1 Failed |
| Co | 59 | 2 | He | 0.643 | 2.5 | 2854 | 2.6 | 0 | ICSA Main CR1 Failed |
| Ni | 60 | 2 | He | 0.981 | 12.2 | 1440 | 8.4 | 0 | ICSA Main CR1 Failed |
| Cu | 63 | 2 | He | 0.383 | 17.7 | 1207 | 14.1 | 0 | ICSA Main CR1 Failed |
| Zn | 66 | 2 | He | 3.016 | 3.2 | 2140 | 2.3 | 0 | ICSA Main CR1 Failed |
| Al | 27 | 2 | He | 89072.440 | 0.7 | 21733180 | 0.2 | 0 | |
| B | 11 | 1 | No Gas | 1.116 | 5.7 | 7042 | 1.1 | 0 | |
| Al | 27 | 1 | No Gas | 92491.464 | 1.3 | 651571337 | 0.8 | 0 | |
| Si | 28 | 1 | No Gas | 29.575 | 1.2 | 482629 | 1.4 | 0 | |
| Ag | 107 | 1 | No Gas | 0.107 | 13.2 | 1527 | 7.8 | 0 | ICSA Main CR1 Failed |
| Cd | 111 | 1 | No Gas | 0.377 | 24.0 | 607 | 23.6 | 0 | ICSA Main CR1 Failed |
| Sr | 88 | 1 | No Gas | 4.665 | 2.6 | 82184 | 0.9 | 0 | ICSA Main CR1 Failed |
| Mo | 95 | 1 | No Gas | 1939.475 | 3.0 | 6511760 | 0.6 | 0 | |
| Sn | 118 | 1 | No Gas | -0.028 | -36.0 | 997 | 2.1 | 0 | ICSA Main CR1 Failed |
| Sb | 121 | 1 | No Gas | 0.205 | 17.8 | 2074 | 13.9 | 0 | ICSA Main CR1 Failed |
| Ba | 137 | 1 | No Gas | 0.671 | 4.6 | 2147 | 2.6 | 0 | ICSA Main CR1 Failed |
| Tl | 205 | 1 | No Gas | -0.020 | -36.6 | 237 | 35.2 | 0 | ICSA Main CR1 Failed |
| Tl | 203 | 1 | No Gas | -0.010 | -42.8 | 123 | 16.9 | 0 | ICSA Main CR1 Failed |
| Pb | 208 | 1 | No Gas | 0.173 | 9.4 | 3697 | 7.6 | 0 | ICSA Main CR1 Failed |
| U | 238 | 1 | No Gas | -0.015 | -9.3 | 137 | 15.2 | 0 | ICSA Main CR1 Failed |
| Ca | 43 | 2 | He | 95969.116 | 1.8 | 149484 | 1.8 | 0 | |
| Sb | 121 | 2 | He | 0.197 | 12.0 | 1090 | 8.2 | 0 | ICSA Main CR1 Failed |
| Ti | 47 | 2 | He | 2064.972 | 1.1 | 280812 | 0.6 | 0 | |
| Se | 82 | 1 | No Gas | 0.274 | 172.1 | 181 | 30.8 | 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 | 347885 | 0.44 | 382126 | 91.04 | 70 | 120 | |
| Ge | 72 | 2 | He | 409633 | 0.51 | 434354 | 94.31 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1279655 | 1.13 | 1368913 | 93.48 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1467427 | 3.50 | 1552261 | 94.53 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1067719 | 0.37 | 1083438 | 98.55 | 70 | 120 | |

# Interference Check Solution AB (ICS-AB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICSAB |
| Data File Name | 031ICSB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T11:28:21-05:00 |
| Sample Type | ICSB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 013CALB.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 | 96.529 | 2.661 | 476301 | 0.36 | 100 | 96.5 | 180 | 120 | ICSB Main CR1 Failed |
| Be | 9 | 1 | No Gas | 96.677 | 2.572 | 160811 | 0.50 | 100 | 96.7 | 80 | 120 | |
| V | 51 | 2 | He | 101.393 | 0.849 | 325347 | 0.36 | 100 | 101.4 | 80 | 120 | |
| Cr | 52 | 2 | He | 99.400 | 0.392 | 342195 | 0.44 | 100 | 99.4 | 80 | 120 | |
| Fe | 56 | 2 | He | 108808.678 | 1.246 | 320478669 | 1.17 | 100 | 108808.7 | 80 | 120 | |
| Se | 78 | 2 | He | 101.040 | 0.583 | 7547 | 0.27 | 100 | 101.0 | 80 | 120 | |
| As | 75 | 2 | He | 100.059 | 0.891 | 65663 | 0.87 | 100 | 100.1 | 80 | 120 | |
| Ca | 44 | 2 | He | 106772.772 | 2.064 | 2820637 | 1.68 | 100 | 106772.8 | 80 | 120 | |
| Na | 23 | 2 | He | 106930.887 | 0.907 | 52270058 | 1.12 | 100 | 106930.9 | 80 | 120 | |
| Mg | 24 | 2 | He | 107997.521 | 0.909 | 31429565 | 0.55 | 100 | 107997.5 | 80 | 120 | ICSB Main CR1 Failed |
| K | 39 | 2 | He | 106922.800 | 0.794 | 58598974 | 0.45 | 100 | 106922.8 | 80 | 120 | |
| Mn | 55 | 2 | He | 99.536 | 0.881 | 288765 | 0.70 | 100 | 99.5 | 80 | 120 | |
| Co | 59 | 2 | He | 99.712 | 1.093 | 433855 | 1.21 | 100 | 99.7 | 80 | 120 | |
| Ni | 60 | 2 | He | 96.920 | 1.484 | 102399 | 1.20 | 100 | 96.9 | 80 | 120 | |
| Cu | 63 | 2 | He | 96.935 | 0.999 | 250901 | 0.72 | 100 | 96.9 | 80 | 120 | |
| Zn | 66 | 2 | He | 100.883 | 1.493 | 63287 | 1.24 | 100 | 100.9 | 80 | 120 | |
| Al | 27 | 2 | He | 90330.963 | 1.089 | 21994840 | 0.82 | 100 | 90331.0 | 80 | 120 | ICSB Main CR1 Failed |
| B | 11 | 1 | No Gas | 479.028 | 2.353 | 413362 | 0.75 | 100 | 479.0 | 80 | 120 | |
| Al | 27 | 1 | No Gas | 93538.774 | 2.864 | 653899577 | 0.23 | 100 | 93538.8 | 80 | 120 | ICSB Main CR1 Failed |
| Si | 28 | 1 | No Gas | 537.070 | 4.155 | 2591281 | 0.62 | 100 | 537.1 | 80 | 120 | |
| Ag | 107 | 1 | No Gas | 100.134 | 2.527 | 806121 | 0.73 | 100 | 100.1 | 80 | 120 | |
| Cd | 111 | 1 | No Gas | 100.656 | 2.976 | 162938 | 0.87 | 100 | 100.7 | 80 | 120 | |
| Sr | 88 | 1 | No Gas | 106.606 | 2.494 | 1836713 | 1.69 | 100 | 106.6 | 80 | 120 | |
| Mo | 95 | 1 | No Gas | 2067.873 | 2.392 | 6893651 | 0.89 | 100 | 2067.9 | 80 | 120 | ICSB Main CR1 Failed |
| Sn | 118 | 1 | No Gas | 103.164 | 2.051 | 514712 | 1.71 | 100 | 103.2 | 80 | 120 | |
| Sb | 121 | 1 | No Gas | 106.573 | 1.624 | 774839 | 1.54 | 100 | 106.6 | 80 | 120 | |
| Ba | 137 | 1 | No Gas | 102.683 | 2.624 | 304802 | 1.11 | 100 | 102.7 | 80 | 120 | |
| Tl | 205 | 1 | No Gas | 98.557 | 0.758 | 1109899 | 0.36 | 100 | 98.6 | 80 | 120 | |
| Tl | 203 | 1 | No Gas | 99.247 | 0.652 | 476401 | 0.76 | 100 | 99.2 | 80 | 120 | |
| Pb | 208 | 1 | No Gas | 101.392 | 1.064 | 1684367 | 1.29 | 100 | 101.4 | 80 | 120 | |
| U | 238 | 1 | No Gas | 104.080 | 0.925 | 1598434 | 1.09 | 100 | 104.1 | 80 | 120 | |
| Ca | 43 | 2 | He | 106336.030 | 1.189 | 165282 | 0.79 | 100 | 106336.0 | 80 | 120 | |
| Sb | 121 | 2 | He | 100.899 | 1.178 | 402472 | 1.16 | 100 | 100.9 | 80 | 120 | |
| Ti | 47 | 2 | He | 2173.743 | 0.663 | 295001 | 0.61 | 100 | 2173.7 | 80 | 120 | |
| Cu | 63 | 1 | No Gas | 104.238 | 2.415 | 583648 | 0.94 | 100 | 104.2 | 80 | 120 | |
| Se | 82 | 1 | No Gas | 104.007 | 3.099 | 12861 | 3.35 | 100 | 104.0 | 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 | 340045 | 2.13 | 382126 | 88.99 | 70 | 120 | |
| Ge | 72 | 2 | He | 408789 | 0.42 | 434354 | 94.11 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1270493 | 3.06 | 1368913 | 92.81 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1456784 | 3.27 | 1552261 | 93.85 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1054089 | 0.59 | 1083438 | 97.29 | 70 | 120 | |

# Calibration Blank Report

**Sample Table**

| | |
|---|---|
| Sample Name | CAL BLK |
| Data File Name | 085CALB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:20:35-05:00 |
| Sample Type | CalBlk |
| Level | 1 |
| Dilution | 1 |
| Comment | |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Li | 7 | 1 | No Gas | 31333 | 0.01 |
| Be | 9 | 1 | No Gas | 30 | 0.00 |
| V | 51 | 2 | He | 14271 | 0.01 |
| Cr | 52 | 2 | He | 14161 | 0.02 |
| Fe | 56 | 2 | He | 45346 | 0.00 |
| Se | 78 | 2 | He | 217 | 7.33 |
| As | 75 | 2 | He | 441 | 1.50 |
| Ca | 44 | 2 | He | 620 | 1.71 |
| Na | 23 | 2 | He | 35469 | 0.01 |
| Mg | 24 | 2 | He | 1974 | 0.47 |
| K | 39 | 2 | He | 266703 | 0.00 |
| Mn | 55 | 2 | He | 363 | 1.16 |
| Co | 59 | 2 | He | 53 | 88.47 |
| Ni | 60 | 2 | He | 340 | 5.19 |
| Cu | 63 | 2 | He | 223 | 14.08 |
| Zn | 66 | 2 | He | 303 | 7.24 |
| Al | 27 | 2 | He | 1123 | 0.76 |
| B | 11 | 1 | No Gas | 6970 | 0.03 |
| Al | 27 | 1 | No Gas | 37310 | 0.00 |
| Si | 28 | 1 | No Gas | 401994 | 0.00 |
| Ag | 107 | 1 | No Gas | 823 | 0.81 |
| Sr | 88 | 1 | No Gas | 1357 | 0.35 |
| Mo | 95 | 1 | No Gas | 680 | 0.22 |
| Sn | 118 | 1 | No Gas | 1183 | 0.66 |
| Sb | 121 | 1 | No Gas | 743 | 1.78 |
| Ba | 137 | 1 | No Gas | 203 | 11.43 |
| Tl | 205 | 1 | No Gas | 557 | 2.27 |
| Tl | 203 | 1 | No Gas | 207 | 16.61 |
| Pb | 208 | 1 | No Gas | 727 | 1.34 |
| U | 238 | 1 | No Gas | 377 | 1.08 |
| Ca | 43 | 2 | He | 63 | 80.14 |
| Sb | 121 | 2 | He | 357 | 1.98 |
| Ti | 47 | 2 | He | 20 | 0.00 |
| Cu | 63 | 1 | No Gas | 1103 | 1.96 |

**QC ISTD Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 471023 | 1.28 |

# Calibration Blank Report

| | | | | | |
|---|---|---|---|---|---|
| Ge | 72 | 2 | He | 472743 | 1.60 |
| Ge | 72 | 1 | No Gas | 1532243 | 3.04 |
| In | 115 | 1 | No Gas | 1782326 | 2.20 |
| Bi | 209 | 1 | No Gas | 1201520 | 2.10 |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 2/10/200 |
| Data File Name | 086CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:22:27-05:00 |
| Sample Type | CalStd |
| Level | 2 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 4052 | 0.04 |
| V | 51 | 2 | He | 21636 | 0.00 |
| Cr | 52 | 2 | He | 22295 | 0.01 |
| Fe | 56 | 2 | He | 758106 | 0.00 |
| Se | 78 | 2 | He | 385 | 2.03 |
| As | 75 | 2 | He | 1953 | 0.20 |
| Ca | 44 | 2 | He | 6805 | 0.04 |
| Na | 23 | 2 | He | 165303 | 0.00 |
| Mg | 24 | 2 | He | 82017 | 0.00 |
| K | 39 | 2 | He | 400911 | 0.00 |
| Mn | 55 | 2 | He | 7095 | 0.08 |
| Co | 59 | 2 | He | 10688 | 0.02 |
| Ni | 60 | 2 | He | 2640 | 0.50 |
| Cu | 63 | 2 | He | 6448 | 0.06 |
| Zn | 66 | 2 | He | 1693 | 0.65 |
| Al | 27 | 2 | He | 1804 | 0.31 |
| B | 11 | 1 | No Gas | 17608 | 0.01 |
| Al | 27 | 1 | No Gas | 54129 | 0.00 |
| Si | 28 | 1 | No Gas | 452497 | 0.00 |
| Ag | 107 | 1 | No Gas | 20456 | 0.01 |
| Cd | 111 | 1 | No Gas | 3744 | 0.17 |
| Sr | 88 | 1 | No Gas | 45407 | 0.00 |
| Mo | 95 | 1 | No Gas | 8723 | 0.01 |
| Sn | 118 | 1 | No Gas | 13444 | 0.02 |
| Sb | 121 | 1 | No Gas | 17595 | 0.01 |
| Ba | 137 | 1 | No Gas | 7399 | 0.08 |
| Tl | 205 | 1 | No Gas | 28874 | 0.00 |
| Tl | 203 | 1 | No Gas | 12049 | 0.02 |
| Pb | 208 | 1 | No Gas | 39829 | 0.00 |
| U | 238 | 1 | No Gas | 33944 | 0.01 |
| Ca | 43 | 2 | He | 350 | 5.71 |
| Sb | 121 | 2 | He | 8613 | 0.06 |
| Cu | 63 | 1 | No Gas | 16006 | 0.02 |

**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 | 475143 | 0.23 | 471023 | 100.87 | 70 | 120 | |
| Ge | 72 | 2 | He | 469146 | 0.79 | 472743 | 99.24 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1563880 | 1.69 | 1532243 | 102.06 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1805997 | 1.17 | 1782326 | 101.33 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1256841 | 1.23 | 1201520 | 104.60 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 5/25/500 |
| Data File Name | 087CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:24:19-05:00 |
| Sample Type | CalStd |
| Level | 3 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 10252 | 0.01 |
| V | 51 | 2 | He | 32491 | 0.00 |
| Cr | 52 | 2 | He | 34146 | 0.01 |
| Fe | 56 | 2 | He | 1831651 | 0.00 |
| Se | 78 | 2 | He | 602 | 0.55 |
| As | 75 | 2 | He | 4004 | 0.11 |
| Ca | 44 | 2 | He | 16010 | 0.02 |
| Na | 23 | 2 | He | 363672 | 0.00 |
| Mg | 24 | 2 | He | 199967 | 0.00 |
| K | 39 | 2 | He | 609025 | 0.00 |
| Mn | 55 | 2 | He | 17094 | 0.02 |
| Co | 59 | 2 | He | 26132 | 0.00 |
| Ni | 60 | 2 | He | 6462 | 0.06 |
| Cu | 63 | 2 | He | 15779 | 0.01 |
| Zn | 66 | 2 | He | 4057 | 0.17 |
| Al | 27 | 2 | He | 2474 | 0.42 |
| B | 11 | 1 | No Gas | 34165 | 0.01 |
| Al | 27 | 1 | No Gas | 77324 | 0.00 |
| Si | 28 | 1 | No Gas | 536806 | 0.00 |
| Ag | 107 | 1 | No Gas | 51393 | 0.00 |
| Cd | 111 | 1 | No Gas | 9604 | 0.00 |
| Sr | 88 | 1 | No Gas | 110839 | 0.00 |
| Mo | 95 | 1 | No Gas | 20379 | 0.02 |
| Sn | 118 | 1 | No Gas | 31695 | 0.01 |
| Sb | 121 | 1 | No Gas | 45034 | 0.00 |
| Ba | 137 | 1 | No Gas | 17632 | 0.01 |
| Tl | 205 | 1 | No Gas | 71813 | 0.00 |
| Tl | 203 | 1 | No Gas | 30130 | 0.00 |
| Pb | 208 | 1 | No Gas | 99225 | 0.00 |
| U | 238 | 1 | No Gas | 84698 | 0.00 |
| Ca | 43 | 2 | He | 1003 | 1.24 |
| Sb | 121 | 2 | He | 21775 | 0.01 |
| Cu | 63 | 1 | No Gas | 38107 | 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 | 474252 | 1.53 | 471023 | 100.69 | 70 | 120 | |
| Ge | 72 | 2 | He | 472591 | 0.99 | 472743 | 99.97 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1568018 | 1.73 | 1532243 | 102.33 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1819393 | 1.03 | 1782326 | 102.08 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1247793 | 1.11 | 1201520 | 103.85 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 10/50/100 |
| Data File Name | 088CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:26:11-05:00 |
| Sample Type | CalStd |
| Level | 4 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 20064 | 0.00 |
| V | 51 | 2 | He | 50078 | 0.00 |
| Cr | 52 | 2 | He | 54211 | 0.00 |
| Fe | 56 | 2 | He | 3515075 | 0.00 |
| Se | 78 | 2 | He | 1043 | 0.14 |
| As | 75 | 2 | He | 7836 | 0.03 |
| Ca | 44 | 2 | He | 30628 | 0.01 |
| Na | 23 | 2 | He | 682270 | 0.00 |
| Mg | 24 | 2 | He | 393465 | 0.00 |
| K | 39 | 2 | He | 916179 | 0.00 |
| Mn | 55 | 2 | He | 33625 | 0.01 |
| Co | 59 | 2 | He | 51842 | 0.00 |
| Ni | 60 | 2 | He | 12916 | 0.03 |
| Cu | 63 | 2 | He | 31096 | 0.01 |
| Zn | 66 | 2 | He | 7686 | 0.05 |
| Al | 27 | 2 | He | 3841 | 0.21 |
| B | 11 | 1 | No Gas | 61613 | 0.00 |
| Al | 27 | 1 | No Gas | 123928 | 0.00 |
| Si | 28 | 1 | No Gas | 677874 | 0.00 |
| Ag | 107 | 1 | No Gas | 100523 | 0.00 |
| Cd | 111 | 1 | No Gas | 19659 | 0.01 |
| Sr | 88 | 1 | No Gas | 221100 | 0.00 |
| Mo | 95 | 1 | No Gas | 39596 | 0.00 |
| Sn | 118 | 1 | No Gas | 61909 | 0.00 |
| Sb | 121 | 1 | No Gas | 90471 | 0.00 |
| Ba | 137 | 1 | No Gas | 35489 | 0.00 |
| Tl | 205 | 1 | No Gas | 138129 | 0.00 |
| Tl | 203 | 1 | No Gas | 57616 | 0.00 |
| Pb | 208 | 1 | No Gas | 195347 | 0.00 |
| U | 238 | 1 | No Gas | 171046 | 0.00 |
| Ca | 43 | 2 | He | 1697 | 0.12 |
| Sb | 121 | 2 | He | 43369 | 0.00 |
| Cu | 63 | 1 | No Gas | 74597 | 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 | 469600 | 1.28 | 471023 | 99.70 | 70 | 120 | |
| Ge | 72 | 2 | He | 467523 | 0.30 | 472743 | 98.90 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1559453 | 0.97 | 1532243 | 101.78 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1803042 | 2.00 | 1782326 | 101.16 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1229974 | 0.82 | 1201520 | 102.37 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 100/500/10K |
| Data File Name | 089CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:28:03-05:00 |
| Sample Type | CalStd |
| Level | 5 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 196430 | 0.00 |
| V | 51 | 2 | He | 369706 | 0.00 |
| Cr | 52 | 2 | He | 395608 | 0.00 |
| Fe | 56 | 2 | He | 33380628 | 0.00 |
| Se | 78 | 2 | He | 8031 | 0.03 |
| As | 75 | 2 | He | 72680 | 0.00 |
| Ca | 44 | 2 | He | 295536 | 0.00 |
| Na | 23 | 2 | He | 5782029 | 0.00 |
| Mg | 24 | 2 | He | 3446520 | 0.00 |
| K | 39 | 2 | He | 6508704 | 0.00 |
| Mn | 55 | 2 | He | 328075 | 0.00 |
| Co | 59 | 2 | He | 504037 | 0.00 |
| Ni | 60 | 2 | He | 124989 | 0.00 |
| Cu | 63 | 2 | He | 300731 | 0.00 |
| Zn | 66 | 2 | He | 72714 | 0.00 |
| Al | 27 | 2 | He | 28256 | 0.01 |
| B | 11 | 1 | No Gas | 539390 | 0.00 |
| Al | 27 | 1 | No Gas | 915609 | 0.00 |
| Si | 28 | 1 | No Gas | 3031821 | 0.00 |
| Ag | 107 | 1 | No Gas | 988446 | 0.00 |
| Cd | 111 | 1 | No Gas | 193582 | 0.00 |
| Sr | 88 | 1 | No Gas | 2112393 | 0.00 |
| Mo | 95 | 1 | No Gas | 398413 | 0.00 |
| Sn | 118 | 1 | No Gas | 608863 | 0.00 |
| Sb | 121 | 1 | No Gas | 893964 | 0.00 |
| Ba | 137 | 1 | No Gas | 355213 | 0.00 |
| Tl | 205 | 1 | No Gas | 1345678 | 0.00 |
| Tl | 203 | 1 | No Gas | 570289 | 0.00 |
| Pb | 208 | 1 | No Gas | 1939669 | 0.00 |
| U | 238 | 1 | No Gas | 1742029 | 0.00 |
| Ca | 43 | 2 | He | 17408 | 0.02 |
| Sb | 121 | 2 | He | 431110 | 0.00 |
| Cu | 63 | 1 | No Gas | 702892 | 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 | 447478 | 1.62 | 471023 | 95.00 | 70 | 120 | |
| Ge | 72 | 2 | He | 457699 | 0.84 | 472743 | 96.82 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1516058 | 2.35 | 1532243 | 98.94 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1716692 | 3.66 | 1782326 | 96.32 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1216568 | 1.36 | 1201520 | 101.25 | 70 | 120 | |

# Calibration Standard Report

**Sample Table**

| | |
|---|---|
| Sample Name | 200/1000/20K |
| Data File Name | 090CALS.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:29:52-05:00 |
| Sample Type | CalStd |
| Level | 6 |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| ISTD Pass/Fail | Pass |

**QC Analyte Table**

| Name | Mass | Tune Step | Tune Mode | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 1 | No Gas | 378842 | 0.00 |
| V | 51 | 2 | He | 702976 | 0.00 |
| Cr | 52 | 2 | He | 743697 | 0.00 |
| Fe | 56 | 2 | He | 64400254 | 0.00 |
| Se | 78 | 2 | He | 15363 | 0.01 |
| As | 75 | 2 | He | 139929 | 0.00 |
| Ca | 44 | 2 | He | 569717 | 0.00 |
| Na | 23 | 2 | He | 10975426 | 0.00 |
| Mg | 24 | 2 | He | 6500638 | 0.00 |
| K | 39 | 2 | He | 12029114 | 0.00 |
| Mn | 55 | 2 | He | 625804 | 0.00 |
| Co | 59 | 2 | He | 965109 | 0.00 |
| Ni | 60 | 2 | He | 235478 | 0.00 |
| Cu | 63 | 2 | He | 575913 | 0.00 |
| Zn | 66 | 2 | He | 138078 | 0.00 |
| Al | 27 | 2 | He | 52489 | 0.00 |
| B | 11 | 1 | No Gas | 892705 | 0.00 |
| Al | 27 | 1 | No Gas | 1721783 | 0.00 |
| Si | 28 | 1 | No Gas | 5284707 | 0.00 |
| Ag | 107 | 1 | No Gas | 1885122 | 0.00 |
| Cd | 111 | 1 | No Gas | 379398 | 0.00 |
| Sr | 88 | 1 | No Gas | 3980453 | 0.00 |
| Mo | 95 | 1 | No Gas | 785065 | 0.00 |
| Sn | 118 | 1 | No Gas | 1178736 | 0.00 |
| Sb | 121 | 1 | No Gas | 1730429 | 0.00 |
| Ba | 137 | 1 | No Gas | 692185 | 0.00 |
| Tl | 205 | 1 | No Gas | 2599721 | 0.00 |
| Tl | 203 | 1 | No Gas | 1069018 | 0.00 |
| Pb | 208 | 1 | No Gas | 3810794 | 0.00 |
| U | 238 | 1 | No Gas | 3494943 | 0.00 |
| Ca | 43 | 2 | He | 34209 | 0.01 |
| Sb | 121 | 2 | He | 853259 | 0.00 |
| Cu | 63 | 1 | No Gas | 1316742 | 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 | 431923 | 1.63 | 471023 | 91.70 | 70 | 120 | |
| Ge | 72 | 2 | He | 440981 | 1.38 | 472743 | 93.28 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1457867 | 4.04 | 1532243 | 95.15 | 70 | 120 | |

# Calibration Standard Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1680846 | 2.97 | 1782326 | 94.31 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1181656 | 1.10 | 1201520 | 98.35 | 70 | 120 | |

# Initial Calibration Blank (ICB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICCB |
| Data File Name | 095_ICB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:39:43-05:00 |
| Sample Type | ICB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.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 | 0.098 | 42.9 | 31600 | 0.6 | 0.5 | |
| Be | 9 | 1 | No Gas | 0.038 | 28.4 | 107 | 21.7 | 0.5 | |
| V | 51 | 2 | He | -1.081 | -4.4 | 10082 | 2.2 | 2.5 | |
| Cr | 52 | 2 | He | 0.292 | 11.8 | 15008 | 1.8 | 2.5 | |
| Fe | 56 | 2 | He | -6.648 | -2.6 | 21971 | 1.7 | 100 | |
| Se | 78 | 2 | He | -0.214 | -250.7 | 195 | 20.8 | 1 | |
| As | 75 | 2 | He | -0.068 | -69.0 | 382 | 8.1 | 2.5 | |
| Ca | 44 | 2 | He | 5.980 | 40.4 | 787 | 9.4 | 100 | |
| Na | 23 | 2 | He | 5.385 | 24.2 | 37878 | 2.1 | 100 | |
| Mg | 24 | 2 | He | 0.111 | 133.4 | 1974 | 1.8 | 100 | |
| K | 39 | 2 | He | -18.174 | -10.8 | 250159 | 0.7 | 100 | |
| Mn | 55 | 2 | He | 0.072 | 25.0 | 593 | 9.6 | 2.5 | |
| Co | 59 | 2 | He | 0.009 | 85.5 | 97 | 39.2 | 2.5 | |
| Ni | 60 | 2 | He | 0.062 | 57.4 | 410 | 10.6 | 2.5 | |
| Cu | 63 | 2 | He | 0.033 | 77.0 | 320 | 25.0 | 1 | |
| Zn | 66 | 2 | He | 0.316 | 8.4 | 527 | 2.9 | 2.5 | |
| Al | 27 | 2 | He | 0.570 | 98.9 | 1257 | 12.1 | 5 | |
| B | 11 | 1 | No Gas | 3.508 | 11.6 | 10789 | 3.5 | 0.5 | ICB Main CR1 Failed |
| Al | 27 | 1 | No Gas | 0.132 | 12.2 | 39135 | 1.7 | 5 | |
| Si | 28 | 1 | No Gas | -1.764 | -37.0 | 399348 | 0.7 | 10 | |
| Ag | 107 | 1 | No Gas | -0.065 | -2.5 | 170 | 11.8 | 2.5 | |
| Cd | 111 | 1 | No Gas | -0.009 | -217.5 | -29 | -136.5 | 1 | |
| Sr | 88 | 1 | No Gas | 0.009 | 60.8 | 1577 | 8.6 | 2.5 | |
| Mo | 95 | 1 | No Gas | -0.064 | -28.8 | 420 | 18.6 | 2.5 | |
| Sn | 118 | 1 | No Gas | 0.066 | 9.3 | 1620 | 2.5 | 5 | |
| Sb | 121 | 1 | No Gas | -0.037 | -5.4 | 413 | 5.0 | 2.5 | |
| Ba | 137 | 1 | No Gas | 0.096 | 15.6 | 567 | 10.6 | 2.5 | |
| Tl | 205 | 1 | No Gas | -0.001 | -124.9 | 577 | 2.0 | 1 | |
| Tl | 203 | 1 | No Gas | -0.004 | -185.3 | 200 | 18.0 | 1 | |
| Pb | 208 | 1 | No Gas | 0.000 | -2329.7 | 777 | 5.4 | 2.5 | |
| U | 238 | 1 | No Gas | -0.017 | -7.7 | 80 | 33.1 | 2.5 | |
| Ca | 43 | 2 | He | -6.521 | -151.8 | 50 | 34.6 | 100 | |
| Sb | 121 | 2 | He | -0.034 | -34.7 | 200 | 26.0 | 2.5 | |
| Ti | 47 | 2 | He | -0.063 | -102.7 | 10 | 100.0 | 2.5 | |
| Se | 82 | 1 | No Gas | -0.851 | -39.4 | 119 | 45.0 | 1 | |

**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 | 466101 | 1.35 | 471023 | 98.96 | 70 | 120 | |
| Ge | 72 | 2 | He | 463410 | 1.07 | 472743 | 98.03 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1557082 | 1.53 | 1532243 | 101.62 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1809790 | 1.89 | 1782326 | 101.54 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1284080 | 2.04 | 1201520 | 106.87 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LLCCV2 |
| Data File Name | 097LCV2.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:45:45-05:00 |
| Sample Type | LLCCV2 |
| Dilution | 1 |
| Comment | |
| ISTD Ref FileName | 085CALB.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 | 1.976 | 1.976 | 4.97 | 43193 | 0.00 | 2 | |
| Be | 9 | 1 | No Gas | 1.922 | 1.922 | 6.18 | 3974 | 0.05 | 2 | |
| V | 51 | 2 | He | 1.210 | 1.210 | 6.92 | 18765 | 0.01 | 2 | NewName Main CR1 Failed |
| Cr | 52 | 2 | He | 2.068 | 2.068 | 2.01 | 22302 | 0.01 | 2 | |
| Fe | 56 | 2 | He | 201.166 | 201.166 | 1.79 | 739914 | 0.03 | 200 | |
| Se | 78 | 2 | He | 1.644 | 1.644 | 7.82 | 351 | 0.47 | 2 | |
| As | 75 | 2 | He | 1.907 | 1.907 | 8.94 | 1869 | 0.10 | 2 | |
| Ca | 44 | 2 | He | 196.304 | 196.304 | 3.19 | 6615 | 2.97 | 200 | |
| Na | 23 | 2 | He | 213.966 | 213.966 | 2.35 | 161485 | 0.13 | 200 | |
| Mg | 24 | 2 | He | 217.247 | 217.247 | 2.68 | 78088 | 0.28 | 200 | |
| K | 39 | 2 | He | 184.748 | 184.748 | 5.54 | 384347 | 0.05 | 200 | |
| Mn | 55 | 2 | He | 1.988 | 1.988 | 5.50 | 7049 | 0.03 | 2 | |
| Co | 59 | 2 | He | 2.029 | 2.029 | 0.81 | 10574 | 0.02 | 2 | |
| Ni | 60 | 2 | He | 1.849 | 1.849 | 7.27 | 2684 | 0.07 | 2 | |
| Cu | 63 | 2 | He | 2.028 | 2.028 | 1.79 | 6495 | 0.03 | 2 | |
| Zn | 66 | 2 | He | 1.884 | 1.884 | 6.02 | 1700 | 0.11 | 2 | |
| Al | 27 | 2 | He | 1.124 | 1.124 | 47.93 | 1437 | 0.08 | 2 | NewName Main CR1 Failed |
| B | 11 | 1 | No Gas | 12.369 | 12.369 | 2.87 | 20709 | 0.06 | 10 | |
| Al | 27 | 1 | No Gas | 1.678 | 1.678 | 14.46 | 53234 | 0.00 | 2 | |
| Si | 28 | 1 | No Gas | 4.658 | 4.658 | 45.68 | 434696 | 0.00 | 10 | NewName Main CR1 Failed |
| Ag | 107 | 1 | No Gas | 1.886 | 1.886 | 2.03 | 20272 | 0.01 | 2 | |
| Cd | 111 | 1 | No Gas | 1.900 | 1.900 | 2.78 | 3908 | 0.05 | 2 | |
| Sr | 88 | 1 | No Gas | 1.983 | 1.983 | 2.41 | 44638 | 0.00 | 2 | |
| Mo | 95 | 1 | No Gas | 1.817 | 1.817 | 2.07 | 8436 | 0.02 | 2 | |
| Sn | 118 | 1 | No Gas | 1.875 | 1.875 | 4.76 | 13244 | 0.01 | 2 | |
| Sb | 121 | 1 | No Gas | 1.836 | 1.836 | 5.53 | 17766 | 0.01 | 2 | |
| Ba | 137 | 1 | No Gas | 1.833 | 1.833 | 5.21 | 7112 | 0.03 | 2 | |
| Tl | 205 | 1 | No Gas | 2.000 | 2.000 | 2.23 | 29184 | 0.01 | 2 | |
| Tl | 203 | 1 | No Gas | 2.062 | 2.062 | 3.65 | 12420 | 0.02 | 2 | |
| Pb | 208 | 1 | No Gas | 1.891 | 1.891 | 0.83 | 40266 | 0.00 | 2 | |
| U | 238 | 1 | No Gas | 1.817 | 1.817 | 2.91 | 35057 | 0.01 | 2 | |
| Ca | 43 | 2 | He | 155.403 | 155.403 | 6.95 | 347 | 44.83 | 200 | |
| Sb | 121 | 2 | He | 1.802 | 1.802 | 3.06 | 8563 | 0.02 | 2 | |
| Ti | 47 | 2 | He | 2.058 | 2.058 | 29.36 | 343 | 0.60 | 200 | |
| Cu | 63 | 1 | No Gas | 2.018 | 2.018 | 3.66 | 15439 | 0.01 | 2 | |
| Se | 82 | 1 | No Gas | 1.892 | 1.892 | 16.85 | 546 | 0.35 | 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 | 467992 | 0.48 | 471023 | 99.36 | 70 | 120 | |
| Ge | 72 | 2 | He | 473260 | 0.37 | 472743 | 100.11 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1562922 | 2.65 | 1532243 | 102.00 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1827326 | 0.89 | 1782326 | 102.52 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1298059 | 0.66 | 1201520 | 108.03 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LLCCV5 |
| Data File Name | 098LCV5.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:47:38-05:00 |
| Sample Type | LLCCV5 |
| Dilution | 1 |
| Comment | |
| ISTD Ref FileName | 085CALB.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 | 4.787 | 4.787 | 2.77 | 60558 | 0.01 | 5 | |
| Be | 9 | 1 | No Gas | 4.758 | 4.758 | 2.78 | 9828 | 0.05 | 5 | |
| V | 51 | 2 | He | 4.300 | 4.300 | 2.08 | 29846 | 0.01 | 5 | |
| Cr | 52 | 2 | He | 5.248 | 5.248 | 5.31 | 34387 | 0.02 | 5 | |
| Fe | 56 | 2 | He | 507.527 | 507.527 | 1.39 | 1777350 | 0.03 | 500 | |
| Se | 78 | 2 | He | 4.854 | 4.854 | 2.25 | 605 | 0.80 | 5 | |
| As | 75 | 2 | He | 4.823 | 4.823 | 2.52 | 4006 | 0.12 | 5 | |
| Ca | 44 | 2 | He | 492.602 | 492.602 | 3.92 | 15482 | 3.18 | 500 | |
| Na | 23 | 2 | He | 536.678 | 536.678 | 1.49 | 347527 | 0.15 | 500 | |
| Mg | 24 | 2 | He | 552.127 | 552.127 | 1.49 | 193201 | 0.29 | 500 | |
| K | 39 | 2 | He | 503.191 | 503.191 | 1.68 | 579971 | 0.09 | 500 | |
| Mn | 55 | 2 | He | 4.985 | 4.985 | 2.45 | 16934 | 0.03 | 5 | |
| Co | 59 | 2 | He | 4.986 | 4.986 | 0.85 | 25618 | 0.02 | 5 | |
| Ni | 60 | 2 | He | 4.970 | 4.970 | 6.84 | 6565 | 0.08 | 5 | |
| Cu | 63 | 2 | He | 5.078 | 5.078 | 4.57 | 15746 | 0.03 | 5 | |
| Zn | 66 | 2 | He | 4.486 | 4.486 | 10.80 | 3591 | 0.12 | 5 | |
| Al | 27 | 2 | He | 3.797 | 3.797 | 6.70 | 2154 | 0.18 | 5 | |
| B | 11 | 1 | No Gas | 26.142 | 26.142 | 1.13 | 36173 | 0.07 | 25 | |
| Al | 27 | 1 | No Gas | 4.075 | 4.075 | 8.89 | 75927 | 0.01 | 5 | |
| Si | 28 | 1 | No Gas | 21.091 | 21.091 | 12.77 | 528850 | 0.00 | 25 | |
| Ag | 107 | 1 | No Gas | 4.942 | 4.942 | 1.76 | 52022 | 0.01 | 5 | |
| Cd | 111 | 1 | No Gas | 4.695 | 4.695 | 3.33 | 9727 | 0.05 | 5 | |
| Sr | 88 | 1 | No Gas | 4.986 | 4.986 | 1.43 | 110701 | 0.00 | 5 | |
| Mo | 95 | 1 | No Gas | 4.579 | 4.579 | 1.26 | 20309 | 0.02 | 5 | |
| Sn | 118 | 1 | No Gas | 4.881 | 4.881 | 4.86 | 32716 | 0.01 | 5 | |
| Sb | 121 | 1 | No Gas | 4.764 | 4.764 | 3.36 | 45493 | 0.01 | 5 | |
| Ba | 137 | 1 | No Gas | 4.723 | 4.723 | 2.24 | 18086 | 0.03 | 5 | |
| Tl | 205 | 1 | No Gas | 5.169 | 5.169 | 1.31 | 73690 | 0.01 | 5 | |
| Tl | 203 | 1 | No Gas | 5.327 | 5.327 | 3.89 | 31380 | 0.02 | 5 | |
| Pb | 208 | 1 | No Gas | 4.834 | 4.834 | 2.24 | 100649 | 0.00 | 5 | |
| U | 238 | 1 | No Gas | 4.684 | 4.684 | 1.28 | 88797 | 0.01 | 5 | |
| Ca | 43 | 2 | He | 468.107 | 468.107 | 5.17 | 907 | 51.63 | 500 | |
| Sb | 121 | 2 | He | 4.647 | 4.647 | 3.62 | 21268 | 0.02 | 5 | |
| Ti | 47 | 2 | He | 4.719 | 4.719 | 11.48 | 753 | 0.63 | 5 | |
| Cu | 63 | 1 | No Gas | 4.966 | 4.966 | 4.08 | 36850 | 0.01 | 5 | |
| Se | 82 | 1 | No Gas | 4.479 | 4.479 | 10.24 | 962 | 0.47 | 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 | 469525 | 0.58 | 471023 | 99.68 | 70 | 120 | |
| Ge | 72 | 2 | He | 467930 | 0.81 | 472743 | 98.98 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1584530 | 3.10 | 1532243 | 103.41 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| In | 115 | 1 | No Gas | 1836715 | 1.60 | 1782326 | 103.05 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1284637 | 1.88 | 1201520 | 106.92 | 70 | 120 | |

# Initial Calibration Verification (ICV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | ICCV |
| Data File Name | 099_ICV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T13:49:29-05:00 |
| Sample Type | ICV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| Sample QC Pass/Fail | Pass |
| 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 | 99.606 | 1.689 | 613334 | 0.55 | 100 | 99.6 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 100.371 | 2.053 | 197675 | 1.08 | 100 | 100.4 | 90 | 110 | |
| V | 51 | 2 | He | 100.189 | 1.581 | 374422 | 0.23 | 100 | 100.2 | 90 | 110 | |
| Cr | 52 | 2 | He | 101.420 | 0.754 | 401428 | 1.04 | 100 | 101.4 | 90 | 110 | |
| Fe | 56 | 2 | He | 10085.837 | 1.499 | 33940057 | 0.59 | 10000 | 100.9 | 90 | 110 | |
| Se | 78 | 2 | He | 104.246 | 2.111 | 8458 | 1.63 | 100 | 104.2 | 90 | 110 | |
| As | 75 | 2 | He | 102.072 | 1.867 | 74785 | 0.52 | 100 | 102.1 | 90 | 110 | |
| Ca | 44 | 2 | He | 10147.622 | 1.874 | 302186 | 0.51 | 10000 | 101.5 | 90 | 110 | |
| Na | 23 | 2 | He | 10257.804 | 0.322 | 5914181 | 1.51 | 10000 | 102.6 | 90 | 110 | |
| Mg | 24 | 2 | He | 10252.135 | 1.309 | 3498449 | 1.33 | 10000 | 102.5 | 90 | 110 | |
| K | 39 | 2 | He | 10235.046 | 2.746 | 6586608 | 1.39 | 10000 | 102.4 | 90 | 110 | |
| Mn | 55 | 2 | He | 101.911 | 0.588 | 333987 | 0.87 | 100 | 101.9 | 90 | 110 | |
| Co | 59 | 2 | He | 101.419 | 2.270 | 511946 | 1.21 | 100 | 101.4 | 90 | 110 | |
| Ni | 60 | 2 | He | 101.478 | 2.253 | 125507 | 0.79 | 100 | 101.5 | 90 | 110 | |
| Cu | 63 | 2 | He | 102.455 | 0.982 | 308705 | 0.48 | 100 | 102.5 | 90 | 110 | |
| Zn | 66 | 2 | He | 101.447 | 1.330 | 73508 | 0.89 | 100 | 101.4 | 90 | 110 | |
| Al | 27 | 2 | He | 103.230 | 2.398 | 28930 | 0.87 | 100 | 103.2 | 90 | 110 | |
| B | 11 | 1 | No Gas | 510.929 | 0.965 | 552792 | 1.29 | 500 | 102.2 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 99.103 | 1.708 | 928936 | 1.86 | 100 | 99.1 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 508.059 | 1.961 | 3081438 | 1.86 | 500 | 101.6 | 90 | 110 | |
| Ag | 107 | 1 | No Gas | 99.200 | 0.769 | 1004466 | 0.45 | 100 | 99.2 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 97.417 | 1.735 | 197334 | 1.05 | 100 | 97.4 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 98.796 | 1.696 | 2117513 | 1.05 | 100 | 98.8 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 96.406 | 1.746 | 403950 | 1.09 | 100 | 96.4 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 99.084 | 1.412 | 625646 | 0.69 | 100 | 99.1 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 99.479 | 1.172 | 916792 | 1.36 | 100 | 99.5 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 97.020 | 1.329 | 359013 | 0.66 | 100 | 97.0 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 98.986 | 0.686 | 1376601 | 0.33 | 100 | 99.0 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 101.548 | 2.177 | 584265 | 1.34 | 100 | 101.5 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 97.329 | 0.685 | 1977558 | 1.39 | 100 | 97.3 | 90 | 110 | |
| U | 238 | 1 | No Gas | 97.167 | 1.192 | 1802737 | 0.32 | 100 | 97.2 | 90 | 110 | |
| Ca | 43 | 2 | He | 10004.613 | 0.948 | 17832 | 0.68 | 10000 | 100.0 | 90 | 110 | |
| Sb | 121 | 2 | He | 99.210 | 1.608 | 439962 | 0.77 | 100 | 99.2 | 90 | 110 | |
| Ti | 47 | 2 | He | 104.899 | 1.902 | 16063 | 0.93 | 100 | 104.9 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 101.314 | 0.719 | 715707 | 0.86 | 100 | 101.3 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 98.747 | 4.015 | 15548 | 4.13 | 100 | 98.7 | 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 | 449000 | 1.26 | 471023 | 95.32 | 70 | 120 | |
| Ge | 72 | 2 | He | 460727 | 1.45 | 472743 | 97.46 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1553093 | 0.27 | 1532243 | 101.36 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1794489 | 0.74 | 1782326 | 100.68 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1262616 | 0.87 | 1201520 | 105.08 | 70 | 120 | |

# Continuing Calibration Verification (CCV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCV |
| Data File Name | 174_CCV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:34:12-05:00 |
| Sample Type | CCV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| n | 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 | 98.279 | 15.544 | 571177 | 1.71 | 100 | 98.3 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 100.141 | 17.481 | 185557 | 4.52 | 100 | 100.1 | 90 | 110 | |
| V | 51 | 2 | He | 95.368 | 1.415 | 352409 | 1.06 | 100 | 95.4 | 90 | 110 | |
| Cr | 52 | 2 | He | 102.965 | 0.769 | 401985 | 0.56 | 100 | 103.0 | 90 | 110 | |
| Fe | 56 | 2 | He | 9644.835 | 1.137 | 32035228 | 1.43 | 10000 | 96.4 | 90 | 110 | |
| Se | 78 | 2 | He | 97.518 | 2.110 | 7822 | 2.12 | 100 | 97.5 | 90 | 110 | |
| As | 75 | 2 | He | 96.010 | 1.154 | 69451 | 0.48 | 100 | 96.0 | 90 | 110 | |
| Ca | 44 | 2 | He | 9595.454 | 0.243 | 282061 | 0.49 | 10000 | 96.0 | 90 | 110 | |
| Na | 23 | 2 | He | 9830.511 | 1.345 | 5594544 | 1.36 | 10000 | 98.3 | 90 | 110 | |
| Mg | 24 | 2 | He | 9677.774 | 1.427 | 3259468 | 2.00 | 10000 | 96.8 | 90 | 110 | |
| K | 39 | 2 | He | 9488.853 | 1.718 | 6046373 | 2.08 | 10000 | 94.9 | 90 | 110 | |
| Mn | 55 | 2 | He | 97.313 | 1.455 | 314746 | 1.37 | 100 | 97.3 | 90 | 110 | |
| Co | 59 | 2 | He | 96.483 | 1.579 | 480689 | 1.19 | 100 | 96.5 | 90 | 110 | |
| Ni | 60 | 2 | He | 103.510 | 0.746 | 126355 | 0.93 | 100 | 103.5 | 90 | 110 | |
| Cu | 63 | 2 | He | 97.749 | 0.767 | 290690 | 1.20 | 100 | 97.7 | 90 | 110 | |
| Zn | 66 | 2 | He | 100.033 | 1.088 | 71538 | 0.53 | 100 | 100.0 | 90 | 110 | |
| Al | 27 | 2 | He | 103.087 | 1.594 | 28520 | 2.19 | 100 | 103.1 | 90 | 110 | |
| B | 11 | 1 | No Gas | 503.786 | 16.714 | 513275 | 3.73 | 500 | 100.8 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 104.802 | 17.466 | 942507 | 5.11 | 100 | 104.8 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 619.656 | 15.473 | 3537003 | 2.19 | 5000 | 12.4 | 90 | 110 | CCV Main CR1-2 Failed |
| Ag | 107 | 1 | No Gas | 98.377 | 18.238 | 961321 | 4.47 | 100 | 98.4 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 96.806 | 19.421 | 189014 | 5.27 | 100 | 96.8 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 98.566 | 16.985 | 2041400 | 3.29 | 100 | 98.6 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 94.881 | 19.422 | 383226 | 5.20 | 100 | 94.9 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 99.389 | 19.822 | 604713 | 6.13 | 100 | 99.4 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 101.162 | 17.711 | 895715 | 5.64 | 100 | 101.2 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 98.514 | 19.273 | 351441 | 5.55 | 100 | 98.5 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 93.588 | 19.913 | 1304516 | 6.98 | 100 | 93.6 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 96.367 | 19.105 | 556304 | 7.23 | 100 | 96.4 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 96.224 | 18.728 | 1961797 | 6.43 | 100 | 96.2 | 90 | 110 | |
| U | 238 | 1 | No Gas | 99.218 | 19.164 | 1846312 | 6.31 | 100 | 99.2 | 90 | 110 | |
| Ca | 43 | 2 | He | 9551.355 | 2.655 | 16804 | 2.65 | 10000 | 95.5 | 90 | 110 | |
| Sb | 121 | 2 | He | 97.054 | 0.475 | 424794 | 0.51 | 100 | 97.1 | 90 | 110 | |
| Ti | 47 | 2 | He | 96.250 | 0.935 | 14548 | 0.48 | 100 | 96.2 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 98.382 | 15.880 | 668854 | 4.08 | 100 | 98.4 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 95.953 | 18.133 | 14520 | 5.15 | 100 | 96.0 | 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 | 429272 | 13.85 | 471023 | 91.14 | 70 | 120 | |
| Ge | 72 | 2 | He | 454661 | 0.67 | 472743 | 96.18 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1515349 | 12.99 | 1532243 | 98.90 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1763830 | 15.03 | 1782326 | 98.96 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1288856 | 13.71 | 1201520 | 107.27 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCB |
| Data File Name | 175_CCB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:36:01-05:00 |
| Sample Type | CCB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.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 | 0.016 | 243.3 | 29107 | 0.0 | 0.5 | |
| Be | 9 | 1 | No Gas | 0.039 | 4.3 | 102 | 2.8 | 0.5 | |
| V | 51 | 2 | He | -0.645 | -7.5 | 11434 | 1.7 | 2.5 | |
| Cr | 52 | 2 | He | 0.150 | 153.7 | 14188 | 6.5 | 2.5 | |
| Fe | 56 | 2 | He | -6.666 | -4.4 | 21490 | 4.3 | 100 | |
| Se | 78 | 2 | He | -0.630 | -30.4 | 159 | 9.6 | 2 | |
| As | 75 | 2 | He | 0.019 | 366.5 | 438 | 11.3 | 2.5 | |
| Ca | 44 | 2 | He | -6.343 | -33.6 | 410 | 14.8 | 100 | |
| Na | 23 | 2 | He | 189.093 | 1.4 | 141014 | 0.7 | 100 | CCB Main CR1 Failed |
| Mg | 24 | 2 | He | -1.094 | -8.5 | 1530 | 2.4 | 100 | |
| K | 39 | 2 | He | -36.219 | -9.3 | 234331 | 0.5 | 100 | |
| Mn | 55 | 2 | He | 0.044 | 12.0 | 490 | 3.5 | 2.5 | |
| Co | 59 | 2 | He | 0.000 | -683.0 | 50 | 20.0 | 2.5 | |
| Ni | 60 | 2 | He | -0.055 | -104.6 | 260 | 26.6 | 2.5 | |
| Cu | 63 | 2 | He | 0.046 | 12.1 | 350 | 4.9 | 2 | |
| Zn | 66 | 2 | He | 0.166 | 86.8 | 410 | 25.3 | 2.5 | |
| Al | 27 | 2 | He | -1.096 | -99.4 | 790 | 37.0 | 5 | |
| B | 11 | 1 | No Gas | 3.926 | 13.4 | 10532 | 4.5 | 0.5 | CCB Main CR1 Failed |
| Al | 27 | 1 | No Gas | -2.123 | -2.9 | 18349 | 3.9 | 5 | |
| Si | 28 | 1 | No Gas | -12.831 | -8.6 | 332573 | 0.7 | 10 | |
| Ag | 107 | 1 | No Gas | -0.066 | -4.1 | 163 | 15.4 | 2.5 | |
| Cd | 111 | 1 | No Gas | 0.013 | 54.9 | 16 | 92.6 | 1 | |
| Sr | 88 | 1 | No Gas | -0.020 | -7.7 | 947 | 4.3 | 2.5 | |
| Mo | 95 | 1 | No Gas | 0.006 | 563.1 | 723 | 18.9 | 2.5 | |
| Sn | 118 | 1 | No Gas | 0.073 | 34.4 | 1687 | 10.4 | 5 | |
| Sb | 121 | 1 | No Gas | -0.017 | -10.9 | 580 | 3.4 | 2.5 | |
| Ba | 137 | 1 | No Gas | 0.020 | 46.1 | 283 | 13.4 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.644 | 43.1 | 10141 | 39.0 | 1 | |
| Tl | 203 | 1 | No Gas | 0.671 | 42.8 | 4338 | 39.1 | 1 | |
| Pb | 208 | 1 | No Gas | 0.015 | 18.4 | 1137 | 7.1 | 2.5 | |
| U | 238 | 1 | No Gas | -0.001 | -285.3 | 400 | 13.9 | 2.5 | |
| Ca | 43 | 2 | He | -17.435 | -33.0 | 30 | 33.3 | 100 | |
| Sb | 121 | 2 | He | -0.019 | -31.4 | 260 | 10.2 | 2.5 | |
| Ti | 47 | 2 | He | -0.039 | -99.1 | 13 | 43.3 | 2.5 | |
| Cu | 63 | 1 | No Gas | 0.329 | 7.4 | 3367 | 7.0 | 2.5 | |
| Se | 82 | 1 | No Gas | -0.920 | -37.7 | 105 | 52.2 | 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 | 436247 | 0.73 | 471023 | 92.62 | 70 | 120 | |
| Ge | 72 | 2 | He | 454471 | 0.36 | 472743 | 96.14 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1518981 | 2.01 | 1532243 | 99.13 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1830428 | 1.47 | 1782326 | 102.70 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1349044 | 2.21 | 1201520 | 112.28 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | MBLK-196608 |
| Data File Name | 176SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:37:59-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | -0.087 | -0.087 | -59.91 | 28706 | 0.00 | 2000 | |
| Be | 9 | 1 | No Gas | 0.011 | 0.011 | 62.66 | 50 | 0.02 | 2000 | |
| V | 51 | 2 | He | -0.447 | -0.447 | -12.13 | 12178 | 0.00 | 2000 | |
| Cr | 52 | 2 | He | 0.067 | 0.067 | 291.58 | 13914 | 0.00 | 2000 | |
| Fe | 56 | 2 | He | -7.262 | -7.262 | -2.05 | 19578 | -0.04 | 200000 | |
| Se | 78 | 2 | He | -0.245 | -0.245 | -51.92 | 190 | -0.13 | 2000 | |
| As | 75 | 2 | He | -0.043 | -0.043 | -52.57 | 394 | -0.01 | 2000 | |
| Ca | 44 | 2 | He | 5.181 | 5.181 | 48.85 | 750 | 0.69 | 200000 | |
| Na | 23 | 2 | He | 179.722 | 179.722 | 3.20 | 136163 | 0.13 | 200000 | |
| Mg | 24 | 2 | He | -0.713 | -0.713 | -32.75 | 1663 | -0.04 | 200000 | |
| K | 39 | 2 | He | -42.033 | -42.033 | -21.45 | 231543 | -0.02 | 200000 | |
| Mn | 55 | 2 | He | 0.007 | 0.007 | 119.63 | 373 | 0.00 | 2000 | |
| Co | 59 | 2 | He | 0.006 | 0.006 | 112.41 | 83 | 0.01 | 2000 | |
| Ni | 60 | 2 | He | -0.102 | -0.102 | -64.04 | 203 | -0.05 | 2000 | |
| Cu | 63 | 2 | He | -0.001 | -0.001 | -629.50 | 213 | 0.00 | 2000 | |
| Zn | 66 | 2 | He | 0.175 | 0.175 | 100.26 | 417 | 0.04 | 2000 | |
| Al | 27 | 2 | He | 0.155 | 0.155 | 316.36 | 1127 | 0.01 | 2000 | |
| B | 11 | 1 | No Gas | 1.883 | 1.883 | 16.79 | 8468 | 0.02 | 2000 | |
| Al | 27 | 1 | No Gas | -0.349 | -0.349 | -29.44 | 34817 | 0.00 | 2000 | |
| Si | 28 | 1 | No Gas | -13.633 | -13.633 | -5.67 | 336928 | 0.00 | 2000 | |
| Ag | 107 | 1 | No Gas | -0.068 | -0.068 | -4.23 | 147 | -0.05 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.008 | 0.008 | 66.32 | 6 | 0.14 | 2000 | |
| Sr | 88 | 1 | No Gas | 0.015 | 0.015 | 60.62 | 1750 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | -0.062 | -0.062 | -13.98 | 443 | -0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | -0.003 | -0.003 | -269.46 | 1220 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | -0.064 | -0.064 | -4.32 | 160 | -0.04 | 2000 | |
| Ba | 137 | 1 | No Gas | 0.028 | 0.028 | 45.64 | 320 | 0.01 | 2000 | |
| Tl | 205 | 1 | No Gas | 0.015 | 0.015 | 41.95 | 863 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 0.013 | 0.013 | 34.36 | 313 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | -0.005 | -0.005 | -17.60 | 717 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | -0.017 | -0.017 | -4.79 | 87 | -0.02 | 2000 | |
| Ca | 43 | 2 | He | 1.415 | 1.415 | 1228.65 | 63 | 2.23 | 200000 | |
| Sb | 121 | 2 | He | -0.056 | -0.056 | -7.62 | 100 | -0.06 | 2000 | |
| Ti | 47 | 2 | He | -0.084 | -0.084 | -45.49 | 7 | -1.25 | 2000 | |
| Cu | 63 | 1 | No Gas | 0.228 | 0.228 | 4.05 | 2737 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 0.187 | 0.187 | 31.92 | 1123 | 0.02 | 2000 | |
| Se | 82 | 1 | No Gas | 0.269 | 0.269 | 181.75 | 292 | 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 | 439054 | 1.16 | 471023 | 93.21 | 70 | 120 | |
| Ge | 72 | 2 | He | 456041 | 1.41 | 472743 | 96.47 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1557932 | 1.60 | 1532243 | 101.68 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1866676 | 2.77 | 1782326 | 104.73 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1362463 | 1.34 | 1201520 | 113.39 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LCS-196608 |
| Data File Name | 177SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:39:52-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 94.567 | 94.567 | 1.03 | 603564 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 47.485 | 47.485 | 0.74 | 96707 | 0.05 | 2000 | |
| V | 51 | 2 | He | 45.282 | 45.282 | 0.77 | 182681 | 0.02 | 2000 | |
| Cr | 52 | 2 | He | 46.516 | 46.516 | 1.55 | 197881 | 0.02 | 2000 | |
| Fe | 56 | 2 | He | 4746.351 | 4746.351 | 1.50 | 16521977 | 0.03 | 200000 | |
| Se | 78 | 2 | He | 47.316 | 47.316 | 1.38 | 4085 | 1.16 | 2000 | |
| As | 75 | 2 | He | 47.479 | 47.479 | 1.98 | 36169 | 0.13 | 2000 | |
| Ca | 44 | 2 | He | 4818.249 | 4818.249 | 3.11 | 148531 | 3.24 | 200000 | |
| Na | 23 | 2 | He | 5042.202 | 5042.202 | 2.08 | 3020495 | 0.17 | 200000 | |
| Mg | 24 | 2 | He | 4963.946 | 4963.946 | 2.00 | 1750572 | 0.28 | 200000 | |
| K | 39 | 2 | He | 4778.342 | 4778.342 | 1.90 | 3319739 | 0.14 | 200000 | |
| Mn | 55 | 2 | He | 46.645 | 46.645 | 2.16 | 158078 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 46.685 | 46.685 | 0.89 | 243463 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 47.499 | 47.499 | 2.46 | 60866 | 0.08 | 2000 | |
| Cu | 63 | 2 | He | 55.474 | 55.474 | 2.44 | 172743 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 54.191 | 54.191 | 1.92 | 40701 | 0.13 | 2000 | |
| Al | 27 | 2 | He | 102.466 | 102.466 | 2.01 | 29672 | 0.35 | 2000 | |
| B | 11 | 1 | No Gas | 474.483 | 474.483 | 0.49 | 531168 | 0.09 | 2000 | |
| Al | 27 | 1 | No Gas | 96.843 | 96.843 | 0.83 | 975235 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 480.877 | 480.877 | 2.24 | 3153541 | 0.02 | 2000 | |
| Ag | 107 | 1 | No Gas | 46.408 | 46.408 | 1.04 | 498155 | 0.01 | 2000 | |
| Cd | 111 | 1 | No Gas | 46.390 | 46.390 | 1.66 | 99528 | 0.05 | 2000 | |
| Sr | 88 | 1 | No Gas | 92.572 | 92.572 | 1.09 | 2101708 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 44.145 | 44.145 | 0.73 | 196318 | 0.02 | 2000 | |
| Sn | 118 | 1 | No Gas | 93.233 | 93.233 | 0.36 | 623611 | 0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | 46.765 | 46.765 | 1.07 | 462999 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 45.608 | 45.608 | 0.43 | 178865 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 40.688 | 40.688 | 1.14 | 630910 | 0.01 | 2000 | |
| Tl | 203 | 1 | No Gas | 40.605 | 40.605 | 1.50 | 260497 | 0.02 | 2000 | |
| Pb | 208 | 1 | No Gas | 46.289 | 46.289 | 1.50 | 1048356 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 94.211 | 94.211 | 1.96 | 1947619 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 4818.853 | 4818.853 | 4.05 | 8903 | 54.13 | 200000 | |
| Sb | 121 | 2 | He | 47.488 | 47.488 | 1.90 | 217713 | 0.02 | 2000 | |
| Ti | 47 | 2 | He | 141.219 | 141.219 | 0.17 | 22332 | 0.63 | 2000 | |
| Cu | 63 | 1 | No Gas | 54.407 | 54.407 | 1.15 | 413065 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 52.936 | 52.936 | 2.35 | 118907 | 0.04 | 2000 | |
| Se | 82 | 1 | No Gas | 46.322 | 46.322 | 5.73 | 7968 | 0.58 | 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 | 464144 | 0.76 | 471023 | 98.54 | 70 | 120 | |
| Ge | 72 | 2 | He | 475862 | 0.71 | 472743 | 100.66 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1667035 | 0.92 | 1532243 | 108.80 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1900552 | 0.43 | 1782326 | 106.63 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1406984 | 1.16 | 1201520 | 117.10 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060722-06SD |
| Data File Name | 179SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:43:42-05:00 |
| Sample Type | Sample |
| Dilution | 5 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 20.318 | 101.589 | 1.06 | 142875 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.015 | 0.073 | 108.67 | 55 | 0.03 | 2000 | |
| V | 51 | 2 | He | 3.670 | 18.350 | 2.29 | 27248 | 0.01 | 2000 | |
| Cr | 52 | 2 | He | 0.875 | 4.374 | 31.14 | 17234 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 19.660 | 98.301 | 1.64 | 110800 | 0.02 | 200000 | |
| Se | 78 | 2 | He | -0.097 | -0.487 | -97.93 | 205 | -0.05 | 2000 | |
| As | 75 | 2 | He | 0.123 | 0.615 | 10.25 | 522 | 0.02 | 2000 | |
| Ca | 44 | 2 | He | 23992.017 | 119960.084 | 1.32 | 717227 | 3.35 | 200000 | |
| Na | 23 | 2 | He | 64640.274 | 323201.372 | 0.53 | 37264194 | 0.17 | 200000 | |
| Mg | 24 | 2 | He | 11759.034 | 58795.169 | 1.98 | 4032323 | 0.29 | 200000 | |
| K | 39 | 2 | He | 115.615 | 578.073 | 5.23 | 333001 | 0.03 | 200000 | |
| Mn | 55 | 2 | He | 62.801 | 314.004 | 0.66 | 206955 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 0.391 | 1.953 | 2.16 | 2034 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 7.815 | 39.077 | 2.23 | 10020 | 0.08 | 2000 | |
| Cu | 63 | 2 | He | 0.253 | 1.267 | 31.82 | 983 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 1.609 | 8.047 | 9.52 | 1463 | 0.11 | 2000 | |
| Al | 27 | 2 | He | 5.845 | 29.227 | 15.47 | 2684 | 0.22 | 2000 | |
| B | 11 | 1 | No Gas | 6.827 | 34.137 | 1.63 | 13380 | 0.05 | 2000 | |
| Al | 27 | 1 | No Gas | 5.647 | 28.234 | 4.31 | 91425 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 2723.676 | 13618.380 | 3.20 | 15206148 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | -0.068 | -0.338 | -0.67 | 147 | -0.05 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.057 | 0.283 | 16.47 | 106 | 0.05 | 2000 | |
| Sr | 88 | 1 | No Gas | 540.660 | 2703.301 | 3.03 | 11803466 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.200 | 1.000 | 17.04 | 1550 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.009 | 0.047 | 248.88 | 1273 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | -0.050 | -0.251 | -6.21 | 300 | -0.02 | 2000 | |
| Ba | 137 | 1 | No Gas | 5.610 | 28.048 | 2.43 | 21355 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 0.028 | 0.139 | 24.49 | 1030 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 0.036 | 0.179 | 42.38 | 450 | 0.01 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.008 | 0.040 | 86.39 | 987 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.443 | 2.214 | 1.31 | 9130 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 24468.602 | 122343.012 | 3.69 | 43730 | 55.95 | 200000 | |
| Sb | 121 | 2 | He | -0.042 | -0.208 | -20.86 | 163 | -0.03 | 2000 | |
| Ti | 47 | 2 | He | 0.524 | 2.618 | 13.49 | 100 | 0.52 | 2000 | |
| Cu | 63 | 1 | No Gas | 1.230 | 6.149 | 5.29 | 10114 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 1.692 | 8.460 | 7.73 | 4381 | 0.04 | 2000 | |
| Se | 82 | 1 | No Gas | -0.724 | -3.621 | -100.87 | 142 | -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 | 430832 | 0.33 | 471023 | 91.47 | 70 | 120 | |
| Ge | 72 | 2 | He | 462934 | 0.99 | 472743 | 97.93 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1602839 | 2.41 | 1532243 | 104.61 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1829359 | 1.88 | 1782326 | 102.64 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1339223 | 1.54 | 1201520 | 111.46 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060722-06MS |
| Data File Name | 180SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:45:35-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 170.235 | 170.235 | 20.06 | 914223 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 50.860 | 50.860 | 20.87 | 89043 | 0.06 | 2000 | |
| V | 51 | 2 | He | 50.199 | 50.199 | 2.38 | 188425 | 0.03 | 2000 | |
| Cr | 52 | 2 | He | 51.108 | 51.108 | 2.24 | 202543 | 0.03 | 2000 | |
| Fe | 56 | 2 | He | 4978.517 | 4978.517 | 3.22 | 16245830 | 0.03 | 200000 | |
| Se | 78 | 2 | He | 49.880 | 49.880 | 3.19 | 4026 | 1.24 | 2000 | |
| As | 75 | 2 | He | 49.577 | 49.577 | 2.12 | 35396 | 0.14 | 2000 | |
| Ca | 44 | 2 | He | 133268.354 | 133268.354 | 3.48 | 3836380 | 3.47 | 200000 | |
| Na | 23 | 2 | He | 350971.103 | 350971.103 | 0.93 | 194874030 | 0.18 | 200000 | >LDR |
| Mg | 24 | 2 | He | 67945.167 | 67945.167 | 1.20 | 22446944 | 0.30 | 200000 | |
| K | 39 | 2 | He | 5514.132 | 5514.132 | 2.42 | 3553466 | 0.16 | 200000 | |
| Mn | 55 | 2 | He | 391.361 | 391.361 | 1.56 | 1241255 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 49.189 | 49.189 | 3.31 | 240497 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 85.915 | 85.915 | 1.75 | 102977 | 0.08 | 2000 | |
| Cu | 63 | 2 | He | 48.265 | 48.265 | 3.14 | 140941 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 51.832 | 51.832 | 2.55 | 36513 | 0.14 | 2000 | |
| Al | 27 | 2 | He | 130.391 | 130.391 | 2.76 | 35115 | 0.37 | 2000 | |
| B | 11 | 1 | No Gas | 528.318 | 528.318 | 19.80 | 508498 | 0.10 | 2000 | |
| Al | 27 | 1 | No Gas | 121.035 | 121.035 | 33.25 | 1098074 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 14676.239 | 14676.239 | 31.74 | 75800212 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | 43.647 | 43.647 | 34.01 | 418373 | 0.01 | 2000 | |
| Cd | 111 | 1 | No Gas | 45.307 | 45.307 | 35.04 | 86565 | 0.05 | 2000 | |
| Sr | 88 | 1 | No Gas | 2976.553 | 2976.553 | 34.52 | 60212437 | 0.00 | 2000 | >LDR |
| Mo | 95 | 1 | No Gas | 47.766 | 47.766 | 34.95 | 189209 | 0.03 | 2000 | |
| Sn | 118 | 1 | No Gas | 95.643 | 95.643 | 35.17 | 569600 | 0.02 | 2000 | |
| Sb | 121 | 1 | No Gas | 47.456 | 47.456 | 32.38 | 426650 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 75.563 | 75.563 | 34.73 | 264017 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 41.666 | 41.666 | 36.93 | 554062 | 0.01 | 2000 | |
| Tl | 203 | 1 | No Gas | 42.655 | 42.655 | 37.13 | 234549 | 0.02 | 2000 | |
| Pb | 208 | 1 | No Gas | 46.106 | 46.106 | 35.28 | 899121 | 0.01 | 2000 | |
| U | 238 | 1 | No Gas | 101.656 | 101.656 | 35.47 | 1808728 | 0.01 | 2000 | |
| Ca | 43 | 2 | He | 135595.659 | 135595.659 | 1.41 | 233337 | 58.11 | 200000 | |
| Sb | 121 | 2 | He | 48.620 | 48.620 | 2.85 | 208981 | 0.02 | 2000 | |
| Ti | 47 | 2 | He | 149.785 | 149.785 | 1.82 | 22208 | 0.67 | 2000 | |
| Cu | 63 | 1 | No Gas | 50.243 | 50.243 | 32.55 | 346405 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 49.373 | 49.373 | 32.02 | 100880 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | 50.254 | 50.254 | 35.46 | 7797 | 0.64 | 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 | 407983 | 15.80 | 471023 | 86.62 | 70 | 120 | |
| Ge | 72 | 2 | He | 446276 | 1.69 | 472743 | 94.40 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1619313 | 30.26 | 1532243 | 105.68 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1834032 | 33.04 | 1782326 | 102.90 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1315188 | 33.60 | 1201520 | 109.46 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060722-06MSD |
| Data File Name | 181SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:47:27-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 169.631 | 169.631 | 3.01 | 945054 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 49.907 | 49.907 | 2.44 | 90761 | 0.05 | 2000 | |
| V | 51 | 2 | He | 49.050 | 49.050 | 2.39 | 187871 | 0.03 | 2000 | |
| Cr | 52 | 2 | He | 50.081 | 50.081 | 1.98 | 202466 | 0.02 | 2000 | |
| Fe | 56 | 2 | He | 4836.505 | 4836.505 | 2.43 | 16080678 | 0.03 | 200000 | |
| Se | 78 | 2 | He | 47.925 | 47.925 | 0.37 | 3950 | 1.21 | 2000 | |
| As | 75 | 2 | He | 48.818 | 48.818 | 2.00 | 35514 | 0.14 | 2000 | |
| Ca | 44 | 2 | He | 132164.102 | 132164.102 | 2.51 | 3876127 | 3.41 | 200000 | |
| Na | 23 | 2 | He | 343905.413 | 343905.413 | 2.14 | 194501397 | 0.18 | 200000 | >LDR |
| Mg | 24 | 2 | He | 66942.702 | 66942.702 | 2.51 | 22526818 | 0.30 | 200000 | |
| K | 39 | 2 | He | 5401.670 | 5401.670 | 2.02 | 3551388 | 0.15 | 200000 | |
| Mn | 55 | 2 | He | 382.330 | 382.330 | 4.13 | 1234968 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 47.743 | 47.743 | 2.37 | 237820 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 84.827 | 84.827 | 1.07 | 103592 | 0.08 | 2000 | |
| Cu | 63 | 2 | He | 47.533 | 47.533 | 2.66 | 141412 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 50.085 | 50.085 | 3.97 | 35948 | 0.14 | 2000 | |
| Al | 27 | 2 | He | 126.434 | 126.434 | 4.33 | 34713 | 0.36 | 2000 | |
| B | 11 | 1 | No Gas | 528.844 | 528.844 | 2.11 | 528013 | 0.10 | 2000 | |
| Al | 27 | 1 | No Gas | 121.730 | 121.730 | 1.30 | 1124727 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 15060.299 | 15060.299 | 0.61 | 79129160 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | 44.253 | 44.253 | 2.11 | 442040 | 0.01 | 2000 | |
| Cd | 111 | 1 | No Gas | 47.750 | 47.750 | 3.16 | 95303 | 0.05 | 2000 | |
| Sr | 88 | 1 | No Gas | 2981.562 | 2981.562 | 2.38 | 62937052 | 0.00 | 2000 | >LDR |
| Mo | 95 | 1 | No Gas | 47.601 | 47.601 | 3.15 | 196873 | 0.02 | 2000 | |
| Sn | 118 | 1 | No Gas | 96.294 | 96.294 | 2.52 | 599224 | 0.02 | 2000 | |
| Sb | 121 | 1 | No Gas | 48.701 | 48.701 | 0.56 | 446184 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 76.882 | 76.882 | 3.14 | 280364 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 42.915 | 42.915 | 0.10 | 599202 | 0.01 | 2000 | |
| Tl | 203 | 1 | No Gas | 43.653 | 43.653 | 0.68 | 252170 | 0.02 | 2000 | |
| Pb | 208 | 1 | No Gas | 46.614 | 46.614 | 0.47 | 950724 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 102.977 | 102.977 | 0.61 | 1917126 | 0.01 | 2000 | |
| Ca | 43 | 2 | He | 132847.288 | 132847.288 | 2.90 | 232855 | 57.05 | 200000 | |
| Sb | 121 | 2 | He | 47.229 | 47.229 | 2.47 | 206827 | 0.02 | 2000 | |
| Ti | 47 | 2 | He | 146.441 | 146.441 | 2.37 | 22118 | 0.66 | 2000 | |
| Cu | 63 | 1 | No Gas | 51.292 | 51.292 | 1.84 | 360435 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 50.449 | 50.449 | 0.60 | 104906 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | 47.455 | 47.455 | 1.66 | 7551 | 0.63 | 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 | 414599 | 1.68 | 471023 | 88.02 | 70 | 120 | |
| Ge | 72 | 2 | He | 454624 | 1.56 | 472743 | 96.17 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1542667 | 0.42 | 1532243 | 100.68 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1768999 | 2.53 | 1782326 | 99.25 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1266909 | 0.22 | 1201520 | 105.44 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060722-06PDS |
| Data File Name | 182SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:49:18-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 109.420 | 109.420 | 1.08 | 604764 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 103.331 | 103.331 | 1.45 | 183471 | 0.06 | 2000 | |
| V | 51 | 2 | He | 97.864 | 97.864 | 1.21 | 355317 | 0.03 | 2000 | |
| Cr | 52 | 2 | He | 98.004 | 98.004 | 1.70 | 376939 | 0.03 | 2000 | |
| Fe | 56 | 2 | He | 9750.027 | 9750.027 | 1.72 | 31847960 | 0.03 | 200000 | |
| Se | 78 | 2 | He | 96.543 | 96.543 | 1.18 | 7618 | 1.27 | 2000 | |
| As | 75 | 2 | He | 97.544 | 97.544 | 1.58 | 69391 | 0.14 | 2000 | |
| Ca | 44 | 2 | He | 137785.033 | 137785.033 | 1.16 | 3975495 | 3.47 | 200000 | |
| Na | 23 | 2 | He | 351129.508 | 351129.508 | 1.14 | 195362664 | 0.18 | 200000 | >LDR |
| Mg | 24 | 2 | He | 71800.602 | 71800.602 | 1.10 | 23770043 | 0.30 | 200000 | |
| K | 39 | 2 | He | 10214.429 | 10214.429 | 2.26 | 6381347 | 0.16 | 200000 | |
| Mn | 55 | 2 | He | 430.734 | 430.734 | 1.05 | 1368980 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 94.936 | 94.936 | 1.71 | 465185 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 131.539 | 131.539 | 1.34 | 157832 | 0.08 | 2000 | |
| Cu | 63 | 2 | He | 93.935 | 93.935 | 0.94 | 274737 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 98.715 | 98.715 | 2.00 | 69434 | 0.14 | 2000 | |
| Al | 27 | 2 | He | 126.658 | 126.658 | 2.00 | 34216 | 0.37 | 2000 | |
| B | 11 | 1 | No Gas | 29.151 | 29.151 | 2.89 | 34080 | 0.09 | 2000 | |
| Al | 27 | 1 | No Gas | 122.036 | 122.036 | 3.26 | 1128198 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 14627.790 | 14627.790 | 1.80 | 76930546 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | 92.878 | 92.878 | 2.29 | 930716 | 0.01 | 2000 | |
| Cd | 111 | 1 | No Gas | 93.694 | 93.694 | 1.83 | 187834 | 0.05 | 2000 | |
| Sr | 88 | 1 | No Gas | 2867.685 | 2867.685 | 1.02 | 60797746 | 0.00 | 2000 | >LDR |
| Mo | 95 | 1 | No Gas | 95.335 | 95.335 | 1.21 | 395380 | 0.02 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.186 | 0.186 | 28.80 | 2337 | 0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | 98.751 | 98.751 | 1.84 | 904683 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 123.279 | 123.279 | 1.98 | 451402 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 88.239 | 88.239 | 0.66 | 1233933 | 0.01 | 2000 | |
| Tl | 203 | 1 | No Gas | 90.655 | 90.655 | 1.85 | 524425 | 0.02 | 2000 | |
| Pb | 208 | 1 | No Gas | 94.985 | 94.985 | 1.56 | 1940147 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 2.523 | 2.523 | 1.24 | 47456 | 0.01 | 2000 | |
| Ca | 43 | 2 | He | 139494.474 | 139494.474 | 2.08 | 240545 | 57.99 | 200000 | |
| Sb | 121 | 2 | He | 96.821 | 96.821 | 1.43 | 416771 | 0.02 | 2000 | |
| Ti | 47 | 2 | He | 102.737 | 102.737 | 0.59 | 15272 | 0.67 | 2000 | |
| Cu | 63 | 1 | No Gas | 100.841 | 100.841 | 2.29 | 708101 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 98.214 | 98.214 | 2.42 | 203694 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | 102.823 | 102.823 | 2.35 | 16083 | 0.64 | 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 | 404736 | 0.46 | 471023 | 85.93 | 70 | 120 | |
| Ge | 72 | 2 | He | 447167 | 0.59 | 472743 | 94.59 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1544262 | 2.03 | 1532243 | 100.78 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1776199 | 1.68 | 1782326 | 99.66 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1269605 | 2.18 | 1201520 | 105.67 | 70 | 120 | |

# Continuing Calibration Verification (CCV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCV |
| Data File Name | 185_CCV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:57:21-05:00 |
| Sample Type | CCV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| n | 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 | 99.956 | 0.875 | 580086 | 0.47 | 100 | 100.0 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 101.505 | 1.932 | 188433 | 1.01 | 100 | 101.5 | 90 | 110 | |
| V | 51 | 2 | He | 98.974 | 0.805 | 359585 | 0.37 | 100 | 99.0 | 90 | 110 | |
| Cr | 52 | 2 | He | 106.289 | 0.497 | 408132 | 0.65 | 100 | 106.3 | 90 | 110 | |
| Fe | 56 | 2 | He | 9972.041 | 1.567 | 32606911 | 0.89 | 10000 | 99.7 | 90 | 110 | |
| Se | 78 | 2 | He | 101.757 | 1.133 | 8027 | 0.19 | 100 | 101.8 | 90 | 110 | |
| As | 75 | 2 | He | 99.976 | 0.838 | 71189 | 0.75 | 100 | 100.0 | 90 | 110 | |
| Ca | 44 | 2 | He | 9943.093 | 1.066 | 287737 | 0.30 | 10000 | 99.4 | 90 | 110 | |
| Na | 23 | 2 | He | 10266.854 | 0.453 | 5751481 | 1.27 | 10000 | 102.7 | 90 | 110 | |
| Mg | 24 | 2 | He | 9967.416 | 1.861 | 3304674 | 0.98 | 10000 | 99.7 | 90 | 110 | |
| K | 39 | 2 | He | 9843.061 | 1.628 | 6165167 | 0.78 | 10000 | 98.4 | 90 | 110 | |
| Mn | 55 | 2 | He | 100.336 | 1.488 | 319488 | 0.70 | 100 | 100.3 | 90 | 110 | |
| Co | 59 | 2 | He | 100.344 | 1.488 | 492201 | 0.67 | 100 | 100.3 | 90 | 110 | |
| Ni | 60 | 2 | He | 107.869 | 2.038 | 129618 | 1.19 | 100 | 107.9 | 90 | 110 | |
| Cu | 63 | 2 | He | 102.291 | 1.755 | 299475 | 1.43 | 100 | 102.3 | 90 | 110 | |
| Zn | 66 | 2 | He | 103.712 | 2.408 | 73009 | 1.67 | 100 | 103.7 | 90 | 110 | |
| Al | 27 | 2 | He | 105.507 | 3.789 | 28707 | 2.88 | 100 | 105.5 | 90 | 110 | |
| B | 11 | 1 | No Gas | 519.673 | 0.514 | 529865 | 1.06 | 500 | 103.9 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 102.567 | 1.134 | 939997 | 1.61 | 100 | 102.6 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 624.568 | 2.756 | 3616742 | 1.59 | 5000 | 12.5 | 90 | 110 | CCV Main CR1-2 Failed |
| Ag | 107 | 1 | No Gas | 99.375 | 2.970 | 1002698 | 0.51 | 100 | 99.4 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 97.143 | 2.661 | 196113 | 1.12 | 100 | 97.1 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 99.325 | 2.595 | 2121653 | 0.96 | 100 | 99.3 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 94.823 | 3.759 | 395887 | 0.66 | 100 | 94.8 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 100.243 | 2.870 | 630783 | 1.20 | 100 | 100.2 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 102.343 | 0.950 | 923446 | 1.53 | 100 | 102.3 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 98.136 | 2.329 | 361924 | 1.06 | 100 | 98.1 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 95.803 | 1.380 | 1401307 | 1.38 | 100 | 95.8 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 98.000 | 1.646 | 593046 | 0.77 | 100 | 98.0 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 97.714 | 2.146 | 2087761 | 1.13 | 100 | 97.7 | 90 | 110 | |
| U | 238 | 1 | No Gas | 100.714 | 1.008 | 1965333 | 1.33 | 100 | 100.7 | 90 | 110 | |
| Ca | 43 | 2 | He | 9713.955 | 1.879 | 16824 | 1.06 | 10000 | 97.1 | 90 | 110 | |
| Sb | 121 | 2 | He | 101.084 | 0.714 | 435586 | 0.44 | 100 | 101.1 | 90 | 110 | |
| Ti | 47 | 2 | He | 99.474 | 1.751 | 14805 | 2.64 | 100 | 99.5 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 100.011 | 1.391 | 691677 | 0.53 | 100 | 100.0 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 97.647 | 3.990 | 15057 | 4.45 | 100 | 97.6 | 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 | 423219 | 1.22 | 471023 | 89.85 | 70 | 120 | |
| Ge | 72 | 2 | He | 447652 | 0.94 | 472743 | 94.69 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1520602 | 0.85 | 1532243 | 99.24 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1789302 | 3.34 | 1782326 | 100.39 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1328123 | 2.18 | 1201520 | 110.54 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCB |
| Data File Name | 186_CCB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T16:59:10-05:00 |
| Sample Type | CCB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.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 | 0.337 | 17.4 | 30959 | 1.4 | 0.5 | |
| Be | 9 | 1 | No Gas | 0.064 | 11.6 | 150 | 8.8 | 0.5 | |
| V | 51 | 2 | He | -0.130 | -23.5 | 13205 | 0.4 | 2.5 | |
| Cr | 52 | 2 | He | 0.183 | 83.0 | 14248 | 4.0 | 2.5 | |
| Fe | 56 | 2 | He | -6.323 | -7.9 | 22527 | 7.1 | 100 | |
| Se | 78 | 2 | He | -0.355 | -108.7 | 180 | 16.7 | 2 | |
| As | 75 | 2 | He | -0.022 | -240.9 | 407 | 8.9 | 2.5 | |
| Ca | 44 | 2 | He | -4.462 | -25.9 | 463 | 7.6 | 100 | |
| Na | 23 | 2 | He | 233.614 | 1.4 | 165465 | 0.8 | 100 | CCB Main CR1 Failed |
| Mg | 24 | 2 | He | 1.733 | 47.9 | 2470 | 11.0 | 100 | |
| K | 39 | 2 | He | -44.435 | -10.3 | 228326 | 0.9 | 100 | |
| Mn | 55 | 2 | He | 0.063 | 5.0 | 550 | 1.8 | 2.5 | |
| Co | 59 | 2 | He | 0.002 | 112.5 | 60 | 16.7 | 2.5 | |
| Ni | 60 | 2 | He | -0.048 | -70.5 | 267 | 15.2 | 2.5 | |
| Cu | 63 | 2 | He | 0.047 | 57.0 | 353 | 22.9 | 2 | |
| Zn | 66 | 2 | He | 0.150 | 103.1 | 397 | 27.8 | 2.5 | |
| Al | 27 | 2 | He | 1.839 | 362.0 | 1566 | 112.9 | 5 | |
| B | 11 | 1 | No Gas | 5.791 | 11.0 | 12481 | 5.2 | 0.5 | CCB Main CR1 Failed |
| Al | 27 | 1 | No Gas | -2.100 | -1.7 | 18773 | 0.8 | 5 | |
| Si | 28 | 1 | No Gas | -15.804 | -5.1 | 321058 | 1.0 | 10 | |
| Ag | 107 | 1 | No Gas | -0.058 | -9.5 | 243 | 24.8 | 2.5 | |
| Cd | 111 | 1 | No Gas | 0.018 | 41.4 | 26 | 59.6 | 1 | |
| Sr | 88 | 1 | No Gas | 0.030 | 36.2 | 2064 | 11.2 | 2.5 | |
| Mo | 95 | 1 | No Gas | 0.021 | 49.1 | 793 | 6.2 | 2.5 | |
| Sn | 118 | 1 | No Gas | 0.058 | 32.7 | 1597 | 6.0 | 5 | |
| Sb | 121 | 1 | No Gas | -0.002 | -355.8 | 730 | 5.5 | 2.5 | |
| Ba | 137 | 1 | No Gas | 0.012 | 147.0 | 257 | 25.0 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.687 | 36.3 | 11286 | 34.6 | 1 | |
| Tl | 203 | 1 | No Gas | 0.692 | 34.2 | 4678 | 32.8 | 1 | |
| Pb | 208 | 1 | No Gas | 0.017 | 37.9 | 1227 | 11.4 | 2.5 | |
| U | 238 | 1 | No Gas | 0.005 | 90.9 | 547 | 18.0 | 2.5 | |
| Ca | 43 | 2 | He | -13.569 | -87.6 | 37 | 56.8 | 100 | |
| Sb | 121 | 2 | He | -0.002 | -1544.8 | 333 | 37.0 | 2.5 | |
| Ti | 47 | 2 | He | -0.105 | -36.4 | 3 | 173.2 | 2.5 | |
| Cu | 63 | 1 | No Gas | 0.665 | 3.8 | 5748 | 1.8 | 2.5 | |
| Se | 82 | 1 | No Gas | -0.969 | -22.9 | 99 | 36.2 | 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 | 436562 | 0.67 | 471023 | 92.68 | 70 | 120 | |
| Ge | 72 | 2 | He | 452503 | 0.37 | 472743 | 95.72 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1536934 | 1.61 | 1532243 | 100.31 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1840354 | 1.67 | 1782326 | 103.26 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1405372 | 0.48 | 1201520 | 116.97 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23061096-01 |
| Data File Name | 194SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:14:46-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 7.801 | 7.801 | 1.39 | 77814 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.081 | 0.081 | 5.41 | 193 | 0.04 | 2000 | |
| V | 51 | 2 | He | 6.003 | 6.003 | 1.88 | 34139 | 0.02 | 2000 | |
| Cr | 52 | 2 | He | 71.637 | 71.637 | 0.32 | 276467 | 0.03 | 2000 | |
| Fe | 56 | 2 | He | 381.541 | 381.541 | 1.10 | 1275162 | 0.03 | 200000 | |
| Se | 78 | 2 | He | 4.103 | 4.103 | 13.20 | 515 | 0.80 | 2000 | |
| As | 75 | 2 | He | 0.190 | 0.190 | 14.06 | 547 | 0.03 | 2000 | |
| Ca | 44 | 2 | He | 1054.385 | 1054.385 | 2.24 | 30708 | 3.43 | 200000 | |
| Na | 23 | 2 | He | 26251.083 | 26251.083 | 1.03 | 14496472 | 0.18 | 200000 | |
| Mg | 24 | 2 | He | 540.275 | 540.275 | 0.35 | 178983 | 0.30 | 200000 | |
| K | 39 | 2 | He | 682.010 | 682.010 | 1.16 | 655229 | 0.10 | 200000 | |
| Mn | 55 | 2 | He | 9.631 | 9.631 | 2.18 | 30648 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 0.810 | 0.810 | 5.16 | 3981 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 15.657 | 15.657 | 3.20 | 18887 | 0.08 | 2000 | |
| Cu | 63 | 2 | He | 1.337 | 1.337 | 6.13 | 4077 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 3.525 | 3.525 | 4.62 | 2730 | 0.13 | 2000 | |
| Al | 27 | 2 | He | 71.701 | 71.701 | 6.47 | 19648 | 0.36 | 2000 | |
| B | 11 | 1 | No Gas | 97.325 | 97.325 | 1.41 | 113965 | 0.09 | 2000 | |
| Al | 27 | 1 | No Gas | 79.474 | 79.474 | 10.51 | 761536 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 16391.668 | 16391.668 | 1.80 | 87696699 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | -0.073 | -0.073 | -6.23 | 93 | -0.08 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.109 | 0.109 | 14.13 | 212 | 0.05 | 2000 | |
| Sr | 88 | 1 | No Gas | 30.517 | 30.517 | 1.58 | 661506 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.065 | 0.065 | 16.69 | 967 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.088 | 0.088 | 4.35 | 1760 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | -0.036 | -0.036 | -3.83 | 423 | -0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 35.803 | 35.803 | 0.66 | 133942 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | -0.034 | -0.034 | -2.33 | 123 | -0.03 | 2000 | |
| Tl | 203 | 1 | No Gas | -0.030 | -0.030 | -14.39 | 50 | -0.06 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.115 | 0.115 | 4.52 | 3294 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.021 | 0.021 | 34.10 | 837 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 1138.755 | 1138.755 | 4.27 | 2004 | 56.84 | 200000 | |
| Sb | 121 | 2 | He | -0.038 | -0.038 | -4.52 | 173 | -0.02 | 2000 | |
| Ti | 47 | 2 | He | 3.361 | 3.361 | 16.23 | 513 | 0.65 | 2000 | |
| Cu | 63 | 1 | No Gas | 2.608 | 2.608 | 0.81 | 19748 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 3.348 | 3.348 | 4.00 | 7782 | 0.04 | 2000 | |
| Se | 82 | 1 | No Gas | 2.735 | 2.735 | 11.98 | 682 | 0.40 | 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 | 462342 | 0.71 | 471023 | 98.16 | 70 | 120 | |
| Ge | 72 | 2 | He | 442878 | 0.93 | 472743 | 93.68 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1571581 | 0.63 | 1532243 | 102.57 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1812321 | 1.16 | 1782326 | 101.68 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1339294 | 1.17 | 1201520 | 111.47 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23061096-02 |
| Data File Name | 195SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:16:38-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 81.031 | 81.031 | 2.79 | 459923 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 0.003 | 0.003 | 229.80 | 32 | 0.01 | 2000 | |
| V | 51 | 2 | He | 2.585 | 2.585 | 10.18 | 20192 | 0.01 | 2000 | |
| Cr | 52 | 2 | He | 7.591 | 7.591 | 7.84 | 37228 | 0.02 | 2000 | |
| Fe | 56 | 2 | He | 1201.653 | 1201.653 | 3.63 | 3551687 | 0.03 | 200000 | |
| Se | 78 | 2 | He | -0.088 | -0.088 | -328.31 | 177 | -0.05 | 2000 | |
| As | 75 | 2 | He | 0.625 | 0.625 | 21.29 | 769 | 0.08 | 2000 | |
| Ca | 44 | 2 | He | 77968.444 | 77968.444 | 3.90 | 2016250 | 3.87 | 200000 | |
| Na | 23 | 2 | He | 266755.701 | 266755.701 | 3.99 | 133011091 | 0.20 | 200000 | >LDR |
| Mg | 24 | 2 | He | 40724.180 | 40724.180 | 3.60 | 12083845 | 0.34 | 200000 | |
| K | 39 | 2 | He | 25089.938 | 25089.938 | 3.53 | 13720282 | 0.18 | 200000 | |
| Mn | 55 | 2 | He | 130.965 | 130.965 | 4.38 | 373175 | 0.04 | 2000 | |
| Co | 59 | 2 | He | 1.560 | 1.560 | 4.74 | 6902 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 1.720 | 1.720 | 7.27 | 2134 | 0.08 | 2000 | |
| Cu | 63 | 2 | He | 1.902 | 1.902 | 8.21 | 5168 | 0.04 | 2000 | |
| Zn | 66 | 2 | He | 5.545 | 5.545 | 4.98 | 3737 | 0.15 | 2000 | |
| Al | 27 | 2 | He | 22.127 | 22.127 | 6.75 | 6141 | 0.36 | 2000 | |
| B | 11 | 1 | No Gas | 69.536 | 69.536 | 2.42 | 73813 | 0.09 | 2000 | |
| Al | 27 | 1 | No Gas | 20.962 | 20.962 | 5.53 | 206265 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 16498.538 | 16498.538 | 3.09 | 79520979 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | -0.062 | -0.062 | -12.95 | 177 | -0.04 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.112 | 0.112 | 16.00 | 195 | 0.06 | 2000 | |
| Sr | 88 | 1 | No Gas | 3341.048 | 3341.048 | 5.28 | 64284914 | 0.01 | 2000 | >LDR |
| Mo | 95 | 1 | No Gas | 0.318 | 0.318 | 126.46 | 1805 | 0.02 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.116 | 0.116 | 35.20 | 1723 | 0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.007 | 0.007 | 124.74 | 747 | 0.00 | 2000 | |
| Ba | 137 | 1 | No Gas | 837.021 | 837.021 | 5.58 | 2780584 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | -0.017 | -0.017 | -14.08 | 317 | -0.01 | 2000 | |
| Tl | 203 | 1 | No Gas | -0.014 | -0.014 | -12.65 | 123 | -0.01 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.119 | 0.119 | 8.31 | 2920 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.092 | 0.092 | 7.42 | 1924 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 78331.472 | 78331.472 | 3.78 | 121081 | 64.69 | 200000 | |
| Sb | 121 | 2 | He | 0.006 | 0.006 | 179.58 | 323 | 0.00 | 2000 | |
| Ti | 47 | 2 | He | 2.710 | 2.710 | 16.44 | 377 | 0.72 | 2000 | |
| Cu | 63 | 1 | No Gas | 6.082 | 6.082 | 3.26 | 40126 | 0.02 | 2000 | |
| Zn | 66 | 1 | No Gas | 5.699 | 5.699 | 1.18 | 11472 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | -0.753 | -0.753 | -36.25 | 122 | -0.62 | 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 | 409374 | 1.66 | 471023 | 86.91 | 70 | 120 | |
| Ge | 72 | 2 | He | 401212 | 4.74 | 472743 | 84.87 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1416488 | 2.51 | 1532243 | 92.45 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1614709 | 5.07 | 1782326 | 90.60 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1156845 | 3.28 | 1201520 | 96.28 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23061096-03 |
| Data File Name | 196SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:18:32-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 143.523 | 143.523 | 1.53 | 756078 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 0.010 | 0.010 | 68.33 | 42 | 0.02 | 2000 | |
| V | 51 | 2 | He | 2.841 | 2.841 | 1.73 | 20826 | 0.01 | 2000 | |
| Cr | 52 | 2 | He | 14.316 | 14.316 | 1.68 | 59111 | 0.02 | 2000 | |
| Fe | 56 | 2 | He | 7261.709 | 7261.709 | 2.17 | 21091793 | 0.03 | 200000 | |
| Se | 78 | 2 | He | -0.211 | -0.211 | -144.38 | 168 | -0.13 | 2000 | |
| As | 75 | 2 | He | 2.107 | 2.107 | 7.17 | 1695 | 0.12 | 2000 | |
| Ca | 44 | 2 | He | 27152.958 | 27152.958 | 2.53 | 696694 | 3.90 | 200000 | |
| Na | 23 | 2 | He | 163770.625 | 163770.625 | 1.76 | 81003302 | 0.20 | 200000 | |
| Mg | 24 | 2 | He | 12297.616 | 12297.616 | 2.72 | 3619487 | 0.34 | 200000 | |
| K | 39 | 2 | He | 53815.398 | 53815.398 | 1.65 | 28926423 | 0.19 | 200000 | |
| Mn | 55 | 2 | He | 244.450 | 244.450 | 1.69 | 690668 | 0.04 | 2000 | |
| Co | 59 | 2 | He | 0.402 | 0.402 | 6.90 | 1793 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 1.085 | 1.085 | 3.91 | 1440 | 0.08 | 2000 | |
| Cu | 63 | 2 | He | 0.500 | 0.500 | 5.49 | 1487 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 4.784 | 4.784 | 1.95 | 3234 | 0.15 | 2000 | |
| Al | 27 | 2 | He | 24.373 | 24.373 | 3.38 | 6615 | 0.37 | 2000 | |
| B | 11 | 1 | No Gas | 167.111 | 167.111 | 0.17 | 160891 | 0.10 | 2000 | |
| Al | 27 | 1 | No Gas | 24.146 | 24.146 | 1.30 | 225503 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 18836.341 | 18836.341 | 0.67 | 88037242 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | -0.067 | -0.067 | -7.40 | 130 | -0.05 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.097 | 0.097 | 16.40 | 165 | 0.06 | 2000 | |
| Sr | 88 | 1 | No Gas | 2004.223 | 2004.223 | 1.56 | 37927875 | 0.01 | 2000 | >LDR |
| Mo | 95 | 1 | No Gas | 0.548 | 0.548 | 42.71 | 2628 | 0.02 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.322 | 0.322 | 1.63 | 2844 | 0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.116 | 0.116 | 14.00 | 1610 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 289.326 | 289.326 | 1.17 | 945496 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | -0.037 | -0.037 | -2.38 | 70 | -0.05 | 2000 | |
| Tl | 203 | 1 | No Gas | -0.032 | -0.032 | -6.83 | 33 | -0.09 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.105 | 0.105 | 6.46 | 2697 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.034 | 0.034 | 10.14 | 963 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 28673.949 | 28673.949 | 1.66 | 43994 | 65.18 | 200000 | |
| Sb | 121 | 2 | He | 0.132 | 0.132 | 2.09 | 803 | 0.02 | 2000 | |
| Ti | 47 | 2 | He | 3.186 | 3.186 | 18.64 | 437 | 0.73 | 2000 | |
| Cu | 63 | 1 | No Gas | 3.776 | 3.776 | 2.22 | 24542 | 0.02 | 2000 | |
| Zn | 66 | 1 | No Gas | 4.514 | 4.514 | 2.21 | 8946 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | -0.746 | -0.746 | -86.29 | 119 | -0.63 | 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 | 389895 | 0.14 | 471023 | 82.78 | 70 | 120 | |
| Ge | 72 | 2 | He | 397489 | 1.37 | 472743 | 84.08 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1373664 | 0.41 | 1532243 | 89.65 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1585378 | 0.90 | 1782326 | 88.95 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1178208 | 1.87 | 1201520 | 98.06 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCB |
| Data File Name | 198_CCB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:22:11-05:00 |
| Sample Type | CCB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.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 | 1.471 | 4.6 | 33832 | 2.0 | 0.5 | CCB Main CR1 Failed |
| Be | 9 | 1 | No Gas | 0.062 | 9.2 | 133 | 7.8 | 0.5 | |
| V | 51 | 2 | He | 0.317 | 40.3 | 12666 | 1.8 | 2.5 | |
| Cr | 52 | 2 | He | 0.423 | 13.6 | 12980 | 1.2 | 2.5 | |
| Fe | 56 | 2 | He | -4.952 | -4.3 | 23184 | 2.9 | 100 | |
| Se | 78 | 2 | He | 0.041 | 220.1 | 181 | 4.5 | 2 | |
| As | 75 | 2 | He | 0.001 | 14606.1 | 362 | 15.7 | 2.5 | |
| Ca | 44 | 2 | He | -3.403 | -22.8 | 423 | 3.6 | 100 | |
| Na | 23 | 2 | He | 390.096 | 1.3 | 217268 | 1.4 | 100 | CCB Main CR1 Failed |
| Mg | 24 | 2 | He | 0.720 | 110.8 | 1827 | 13.0 | 100 | |
| K | 39 | 2 | He | -4.165 | -172.6 | 216585 | 1.1 | 100 | |
| Mn | 55 | 2 | He | 0.067 | 19.9 | 483 | 8.6 | 2.5 | |
| Co | 59 | 2 | He | 0.012 | 19.7 | 97 | 11.9 | 2.5 | |
| Ni | 60 | 2 | He | -0.031 | -73.1 | 247 | 10.2 | 2.5 | |
| Cu | 63 | 2 | He | 0.095 | 25.6 | 423 | 15.7 | 2 | |
| Zn | 66 | 2 | He | 0.218 | 71.2 | 380 | 23.4 | 2.5 | |
| Al | 27 | 2 | He | -1.566 | -6.4 | 567 | 2.7 | 5 | |
| B | 11 | 1 | No Gas | 8.980 | 7.7 | 14274 | 3.0 | 0.5 | CCB Main CR1 Failed |
| Al | 27 | 1 | No Gas | -2.063 | -2.2 | 16360 | 2.3 | 5 | |
| Si | 28 | 1 | No Gas | -7.738 | -30.1 | 311146 | 4.8 | 10 | |
| Ag | 107 | 1 | No Gas | -0.061 | -6.5 | 183 | 17.5 | 2.5 | |
| Cd | 111 | 1 | No Gas | 0.018 | 16.4 | 23 | 24.4 | 1 | |
| Sr | 88 | 1 | No Gas | 0.081 | 11.4 | 2670 | 5.1 | 2.5 | |
| Mo | 95 | 1 | No Gas | 0.000 | -5242.1 | 590 | 13.5 | 2.5 | |
| Sn | 118 | 1 | No Gas | 0.066 | 5.1 | 1387 | 1.1 | 5 | |
| Sb | 121 | 1 | No Gas | 0.004 | 49.0 | 667 | 2.3 | 2.5 | |
| Ba | 137 | 1 | No Gas | 0.047 | 35.4 | 327 | 15.4 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.659 | 38.0 | 9161 | 37.0 | 1 | |
| Tl | 203 | 1 | No Gas | 0.678 | 36.2 | 3871 | 35.3 | 1 | |
| Pb | 208 | 1 | No Gas | 0.023 | 9.7 | 1160 | 5.2 | 2.5 | |
| U | 238 | 1 | No Gas | 0.004 | 115.1 | 443 | 19.7 | 2.5 | |
| Ca | 43 | 2 | He | -23.505 | -43.0 | 17 | 91.7 | 100 | |
| Sb | 121 | 2 | He | -0.024 | -43.9 | 203 | 19.9 | 2.5 | |
| Ti | 47 | 2 | He | -0.102 | -44.2 | 3 | 173.2 | 2.5 | |
| Cu | 63 | 1 | No Gas | 1.124 | 10.4 | 7676 | 10.6 | 2.5 | |
| Se | 82 | 1 | No Gas | -1.041 | -47.0 | 75 | 86.2 | 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 | 394754 | 2.51 | 471023 | 83.81 | 70 | 120 | |
| Ge | 72 | 2 | He | 387748 | 1.32 | 472743 | 82.02 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1316908 | 3.11 | 1532243 | 85.95 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1548407 | 1.22 | 1782326 | 86.88 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1184232 | 1.46 | 1201520 | 98.56 | 70 | 120 | |

# Continuing Calibration Verification (CCV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCV |
| Data File Name | 201_CCV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:42:20-05:00 |
| Sample Type | CCV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| n | 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 | 96.443 | 1.620 | 503762 | 0.87 | 100 | 96.4 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 98.210 | 1.487 | 163818 | 0.72 | 100 | 98.2 | 90 | 110 | |
| V | 51 | 2 | He | 96.340 | 1.051 | 321371 | 0.53 | 100 | 96.3 | 90 | 110 | |
| Cr | 52 | 2 | He | 104.472 | 1.020 | 368155 | 0.73 | 100 | 104.5 | 90 | 110 | |
| Fe | 56 | 2 | He | 9884.113 | 1.887 | 29644327 | 1.17 | 10000 | 98.8 | 90 | 110 | |
| Se | 78 | 2 | He | 100.604 | 0.635 | 7282 | 1.19 | 100 | 100.6 | 90 | 110 | |
| As | 75 | 2 | He | 100.253 | 2.016 | 65472 | 1.33 | 100 | 100.3 | 90 | 110 | |
| Ca | 44 | 2 | He | 9773.072 | 1.547 | 259413 | 0.80 | 10000 | 97.7 | 90 | 110 | |
| Na | 23 | 2 | He | 9872.530 | 0.764 | 5073697 | 0.14 | 10000 | 98.7 | 90 | 110 | |
| Mg | 24 | 2 | He | 9770.101 | 2.697 | 2971097 | 1.96 | 10000 | 97.7 | 90 | 110 | |
| K | 39 | 2 | He | 9604.541 | 0.650 | 5523759 | 0.15 | 10000 | 96.0 | 90 | 110 | |
| Mn | 55 | 2 | He | 98.955 | 1.740 | 289014 | 0.98 | 100 | 99.0 | 90 | 110 | |
| Co | 59 | 2 | He | 97.560 | 0.676 | 438958 | 0.31 | 100 | 97.6 | 90 | 110 | |
| Ni | 60 | 2 | He | 105.299 | 0.674 | 116074 | 0.60 | 100 | 105.3 | 90 | 110 | |
| Cu | 63 | 2 | He | 99.606 | 1.960 | 267489 | 1.84 | 100 | 99.6 | 90 | 110 | |
| Zn | 66 | 2 | He | 102.425 | 1.817 | 66141 | 1.08 | 100 | 102.4 | 90 | 110 | |
| Al | 27 | 2 | He | 103.010 | 1.533 | 25734 | 1.11 | 100 | 103.0 | 90 | 110 | |
| B | 11 | 1 | No Gas | 502.614 | 0.681 | 460640 | 1.07 | 500 | 100.5 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 102.469 | 1.879 | 845338 | 0.58 | 100 | 102.5 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 622.028 | 5.067 | 3247137 | 6.67 | 5000 | 12.4 | 90 | 110 | CCV Main CR1-2 Failed |
| Ag | 107 | 1 | No Gas | 97.053 | 3.579 | 918642 | 1.26 | 100 | 97.1 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 96.120 | 2.564 | 182043 | 0.05 | 100 | 96.1 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 96.453 | 2.897 | 1932772 | 0.59 | 100 | 96.5 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 92.771 | 2.503 | 363476 | 0.87 | 100 | 92.8 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 98.217 | 2.310 | 579887 | 1.02 | 100 | 98.2 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 105.001 | 2.576 | 852703 | 0.92 | 100 | 105.0 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 97.058 | 2.799 | 335773 | 0.43 | 100 | 97.1 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 93.416 | 1.647 | 1294276 | 1.78 | 100 | 93.4 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 96.811 | 2.253 | 554871 | 0.61 | 100 | 96.8 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 97.208 | 1.543 | 1967513 | 1.57 | 100 | 97.2 | 90 | 110 | |
| U | 238 | 1 | No Gas | 101.122 | 2.379 | 1868900 | 1.74 | 100 | 101.1 | 90 | 110 | |
| Ca | 43 | 2 | He | 9504.727 | 0.283 | 15102 | 0.93 | 10000 | 95.0 | 90 | 110 | |
| Sb | 121 | 2 | He | 101.741 | 0.543 | 402144 | 0.96 | 100 | 101.7 | 90 | 110 | |
| Ti | 47 | 2 | He | 99.269 | 5.729 | 13550 | 5.80 | 100 | 99.3 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 99.117 | 2.272 | 617081 | 1.16 | 100 | 99.1 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 99.002 | 2.468 | 13743 | 4.01 | 100 | 99.0 | 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 | 380255 | 0.91 | 471023 | 80.73 | 70 | 120 | |
| Ge | 72 | 2 | He | 410599 | 0.77 | 472743 | 86.85 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1369135 | 2.30 | 1532243 | 89.35 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1678389 | 2.62 | 1782326 | 94.17 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1258076 | 2.60 | 1201520 | 104.71 | 70 | 120 | |

# Continuing Calibration Verification (CCV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCV |
| Data File Name | 202_CCV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:44:10-05:00 |
| Sample Type | CCV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| n | 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 | 96.599 | 0.643 | 502050 | 0.16 | 100 | 96.6 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 98.648 | 1.329 | 163740 | 1.27 | 100 | 98.6 | 90 | 110 | |
| V | 51 | 2 | He | 95.369 | 0.678 | 322629 | 0.48 | 100 | 95.4 | 90 | 110 | |
| Cr | 52 | 2 | He | 104.122 | 0.986 | 371989 | 0.21 | 100 | 104.1 | 90 | 110 | |
| Fe | 56 | 2 | He | 9999.339 | 0.768 | 30402910 | 0.87 | 10000 | 100.0 | 90 | 110 | |
| Se | 78 | 2 | He | 103.741 | 1.461 | 7605 | 1.04 | 100 | 103.7 | 90 | 110 | |
| As | 75 | 2 | He | 100.133 | 1.807 | 66293 | 1.41 | 100 | 100.1 | 90 | 110 | |
| Ca | 44 | 2 | He | 9725.017 | 0.830 | 261689 | 0.31 | 10000 | 97.3 | 90 | 110 | |
| Na | 23 | 2 | He | 9845.484 | 1.620 | 5128982 | 0.72 | 10000 | 98.5 | 90 | 110 | |
| Mg | 24 | 2 | He | 9705.663 | 1.073 | 2992205 | 0.16 | 10000 | 97.1 | 90 | 110 | |
| K | 39 | 2 | He | 9580.886 | 1.742 | 5585890 | 0.65 | 10000 | 95.8 | 90 | 110 | |
| Mn | 55 | 2 | He | 99.873 | 1.149 | 295704 | 0.78 | 100 | 99.9 | 90 | 110 | |
| Co | 59 | 2 | He | 98.815 | 0.640 | 450703 | 0.53 | 100 | 98.8 | 90 | 110 | |
| Ni | 60 | 2 | He | 106.309 | 2.092 | 118781 | 1.26 | 100 | 106.3 | 90 | 110 | |
| Cu | 63 | 2 | He | 100.005 | 0.532 | 272262 | 1.49 | 100 | 100.0 | 90 | 110 | |
| Zn | 66 | 2 | He | 101.183 | 0.238 | 66245 | 1.10 | 100 | 101.2 | 90 | 110 | |
| Al | 27 | 2 | He | 103.142 | 0.351 | 26121 | 1.46 | 100 | 103.1 | 90 | 110 | |
| B | 11 | 1 | No Gas | 508.064 | 0.376 | 463253 | 0.53 | 500 | 101.6 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 98.378 | 0.938 | 828613 | 1.80 | 100 | 98.4 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 583.249 | 0.939 | 3123307 | 0.86 | 5000 | 11.7 | 90 | 110 | CCV Main CR1-2 Failed |
| Ag | 107 | 1 | No Gas | 96.330 | 1.009 | 922015 | 0.87 | 100 | 96.3 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 95.142 | 1.562 | 182168 | 0.50 | 100 | 95.1 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 96.203 | 1.290 | 1949067 | 0.61 | 100 | 96.2 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 92.363 | 1.161 | 365855 | 0.75 | 100 | 92.4 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 98.882 | 0.557 | 590230 | 1.29 | 100 | 98.9 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 104.388 | 0.608 | 864118 | 0.91 | 100 | 104.4 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 96.992 | 0.947 | 339269 | 1.10 | 100 | 97.0 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 94.922 | 0.585 | 1331725 | 1.62 | 100 | 94.9 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 98.063 | 1.645 | 569151 | 0.61 | 100 | 98.1 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 98.298 | 0.792 | 2014671 | 1.53 | 100 | 98.3 | 90 | 110 | |
| U | 238 | 1 | No Gas | 100.003 | 1.452 | 1871560 | 1.22 | 100 | 100.0 | 90 | 110 | |
| Ca | 43 | 2 | He | 9574.721 | 1.449 | 15422 | 2.21 | 10000 | 95.7 | 90 | 110 | |
| Sb | 121 | 2 | He | 102.897 | 0.330 | 412283 | 0.90 | 100 | 102.9 | 90 | 110 | |
| Ti | 47 | 2 | He | 98.711 | 4.388 | 13657 | 4.02 | 100 | 98.7 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 98.549 | 1.032 | 625350 | 0.71 | 100 | 98.5 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 103.583 | 0.894 | 14640 | 2.21 | 100 | 103.6 | 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 | 378360 | 0.46 | 471023 | 80.33 | 70 | 120 | |
| Ge | 72 | 2 | He | 416236 | 1.13 | 472743 | 88.05 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1395155 | 1.36 | 1532243 | 91.05 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1696363 | 1.84 | 1782326 | 95.18 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1273797 | 2.20 | 1201520 | 106.02 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23061096-05 |
| Data File Name | 203SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:46:08-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 42.896 | 42.896 | 2.50 | 244327 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 0.116 | 0.116 | 18.25 | 223 | 0.05 | 2000 | |
| V | 51 | 2 | He | 0.729 | 0.729 | 6.28 | 15133 | 0.00 | 2000 | |
| Cr | 52 | 2 | He | 2.096 | 2.096 | 7.81 | 19968 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 3179.182 | 3179.182 | 2.28 | 9817496 | 0.03 | 200000 | |
| Se | 78 | 2 | He | 0.074 | 0.074 | 544.27 | 199 | 0.04 | 2000 | |
| As | 75 | 2 | He | 2.377 | 2.377 | 2.94 | 1978 | 0.12 | 2000 | |
| Ca | 44 | 2 | He | 36189.012 | 36189.012 | 3.52 | 984706 | 3.68 | 200000 | |
| Na | 23 | 2 | He | 448359.285 | 448359.285 | 2.03 | 235171956 | 0.19 | 200000 | >LDR |
| Mg | 24 | 2 | He | 24073.270 | 24073.270 | 2.16 | 7514358 | 0.32 | 200000 | |
| K | 39 | 2 | He | 809.756 | 809.756 | 3.84 | 695920 | 0.12 | 200000 | |
| Mn | 55 | 2 | He | 1031.622 | 1031.622 | 1.94 | 3090626 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 19.601 | 19.601 | 2.51 | 90589 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 7.954 | 7.954 | 2.59 | 9283 | 0.09 | 2000 | |
| Cu | 63 | 2 | He | 3.551 | 3.551 | 1.62 | 9984 | 0.04 | 2000 | |
| Zn | 66 | 2 | He | 10.219 | 10.219 | 2.63 | 7019 | 0.15 | 2000 | |
| Al | 27 | 2 | He | 159.413 | 159.413 | 2.52 | 40339 | 0.40 | 2000 | |
| B | 11 | 1 | No Gas | 44.257 | 44.257 | 3.65 | 46881 | 0.09 | 2000 | |
| Al | 27 | 1 | No Gas | 160.781 | 160.781 | 5.22 | 1356182 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 13307.899 | 13307.899 | 3.43 | 64409884 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | -0.052 | -0.052 | -8.10 | 283 | -0.02 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.157 | 0.157 | 35.08 | 284 | 0.06 | 2000 | |
| Sr | 88 | 1 | No Gas | 628.546 | 628.546 | 3.44 | 12513227 | 0.01 | 2000 | |
| Mo | 95 | 1 | No Gas | 27.909 | 27.909 | 2.50 | 109151 | 0.03 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.190 | 0.190 | 9.41 | 2224 | 0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.183 | 0.183 | 14.66 | 2227 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 162.055 | 162.055 | 2.88 | 557209 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 0.798 | 0.798 | 32.84 | 11426 | 0.01 | 2000 | |
| Tl | 203 | 1 | No Gas | 0.838 | 0.838 | 32.83 | 4921 | 0.02 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.585 | 0.585 | 6.97 | 12356 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 21.866 | 21.866 | 0.65 | 397020 | 0.01 | 2000 | |
| Ca | 43 | 2 | He | 36161.216 | 36161.216 | 3.18 | 58826 | 61.47 | 200000 | |
| Sb | 121 | 2 | He | 0.186 | 0.186 | 15.57 | 1073 | 0.02 | 2000 | |
| Ti | 47 | 2 | He | 3.017 | 3.017 | 9.09 | 440 | 0.69 | 2000 | |
| Cu | 63 | 1 | No Gas | 38.761 | 38.761 | 3.91 | 250987 | 0.02 | 2000 | |
| Zn | 66 | 1 | No Gas | 10.099 | 10.099 | 1.96 | 19872 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | 4.934 | 4.934 | 13.10 | 927 | 0.53 | 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 | 390222 | 1.15 | 471023 | 82.85 | 70 | 120 | |
| Ge | 72 | 2 | He | 421609 | 1.02 | 472743 | 89.18 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1420625 | 1.73 | 1532243 | 92.72 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1668482 | 2.37 | 1782326 | 93.61 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1234723 | 1.42 | 1201520 | 102.76 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23061096-06 |
| Data File Name | 204SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:48:01-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 50.419 | 50.419 | 3.24 | 272294 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 0.111 | 0.111 | 7.28 | 207 | 0.05 | 2000 | |
| V | 51 | 2 | He | 1.890 | 1.890 | 6.66 | 19159 | 0.01 | 2000 | |
| Cr | 52 | 2 | He | 2.542 | 2.542 | 10.05 | 21751 | 0.01 | 2000 | |
| Fe | 56 | 2 | He | 3937.330 | 3937.330 | 1.40 | 12280764 | 0.03 | 200000 | |
| Se | 78 | 2 | He | -0.046 | -0.046 | -553.32 | 192 | -0.02 | 2000 | |
| As | 75 | 2 | He | 3.110 | 3.110 | 2.28 | 2494 | 0.12 | 2000 | |
| Ca | 44 | 2 | He | 43956.629 | 43956.629 | 2.02 | 1209033 | 3.64 | 200000 | |
| Na | 23 | 2 | He | 532177.742 | 532177.742 | 1.47 | 282154042 | 0.19 | 200000 | >LDR |
| Mg | 24 | 2 | He | 28918.895 | 28918.895 | 1.80 | 9124088 | 0.32 | 200000 | |
| K | 39 | 2 | He | 976.023 | 976.023 | 1.25 | 798582 | 0.12 | 200000 | |
| Mn | 55 | 2 | He | 1228.720 | 1228.720 | 1.88 | 3721330 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 23.413 | 23.413 | 2.12 | 109366 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 9.090 | 9.090 | 1.47 | 10681 | 0.09 | 2000 | |
| Cu | 63 | 2 | He | 1.430 | 1.430 | 13.49 | 4181 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 9.496 | 9.496 | 2.78 | 6612 | 0.14 | 2000 | |
| Al | 27 | 2 | He | 544.279 | 544.279 | 16.10 | 136696 | 0.40 | 2000 | |
| B | 11 | 1 | No Gas | 46.529 | 46.529 | 3.36 | 47204 | 0.10 | 2000 | |
| Al | 27 | 1 | No Gas | 777.075 | 777.075 | 15.85 | 6442049 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 17915.209 | 17915.209 | 16.24 | 87256684 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | -0.058 | -0.058 | -6.83 | 217 | -0.03 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.213 | 0.213 | 13.72 | 385 | 0.06 | 2000 | |
| Sr | 88 | 1 | No Gas | 741.548 | 741.548 | 4.06 | 14453005 | 0.01 | 2000 | |
| Mo | 95 | 1 | No Gas | 1.328 | 1.328 | 11.38 | 5668 | 0.02 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.659 | 0.659 | 1.54 | 4868 | 0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.246 | 0.246 | 8.85 | 2777 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 193.451 | 193.451 | 3.82 | 651127 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 0.067 | 0.067 | 16.60 | 1427 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | 0.067 | 0.067 | 23.88 | 567 | 0.01 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.749 | 0.749 | 4.58 | 14987 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 26.325 | 26.325 | 2.42 | 458589 | 0.01 | 2000 | |
| Ca | 43 | 2 | He | 42824.851 | 42824.851 | 1.15 | 70416 | 60.82 | 200000 | |
| Sb | 121 | 2 | He | 0.231 | 0.231 | 24.37 | 1267 | 0.02 | 2000 | |
| Ti | 47 | 2 | He | 14.405 | 14.405 | 40.18 | 2051 | 0.70 | 2000 | |
| Cu | 63 | 1 | No Gas | 35.786 | 35.786 | 3.64 | 233404 | 0.02 | 2000 | |
| Zn | 66 | 1 | No Gas | 10.221 | 10.221 | 5.72 | 20222 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | 8.250 | 8.250 | 27.69 | 1406 | 0.59 | 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 | 376108 | 2.86 | 471023 | 79.85 | 70 | 120 | |
| Ge | 72 | 2 | He | 426153 | 0.98 | 472743 | 90.14 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1431540 | 5.09 | 1532243 | 93.43 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1634463 | 4.48 | 1782326 | 91.70 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1185525 | 4.05 | 1201520 | 98.67 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23061096-09 |
| Data File Name | 205SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:49:54-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 2.993 | 2.993 | 1.78 | 43790 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.060 | 0.060 | 29.70 | 135 | 0.04 | 2000 | |
| V | 51 | 2 | He | 3.241 | 3.241 | 2.43 | 24487 | 0.01 | 2000 | |
| Cr | 52 | 2 | He | 13.203 | 13.203 | 1.99 | 61528 | 0.02 | 2000 | |
| Fe | 56 | 2 | He | 561.154 | 561.154 | 1.59 | 1848018 | 0.03 | 200000 | |
| Se | 78 | 2 | He | -0.373 | -0.373 | -88.61 | 174 | -0.21 | 2000 | |
| As | 75 | 2 | He | 0.493 | 0.493 | 13.70 | 756 | 0.07 | 2000 | |
| Ca | 44 | 2 | He | 6966.567 | 6966.567 | 1.56 | 198829 | 3.50 | 200000 | |
| Na | 23 | 2 | He | 34004.006 | 34004.006 | 0.86 | 18693053 | 0.18 | 200000 | |
| Mg | 24 | 2 | He | 1343.816 | 1343.816 | 1.68 | 440643 | 0.30 | 200000 | |
| K | 39 | 2 | He | 1851.115 | 1851.115 | 1.21 | 1344603 | 0.14 | 200000 | |
| Mn | 55 | 2 | He | 72.982 | 72.982 | 1.97 | 229088 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 0.176 | 0.176 | 8.51 | 900 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 12.730 | 12.730 | 2.52 | 15356 | 0.08 | 2000 | |
| Cu | 63 | 2 | He | 1.503 | 1.503 | 3.57 | 4541 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 4.985 | 4.985 | 2.84 | 3727 | 0.13 | 2000 | |
| Al | 27 | 2 | He | 77.476 | 77.476 | 27.72 | 21065 | 0.37 | 2000 | |
| B | 11 | 1 | No Gas | 52.156 | 52.156 | 0.81 | 57639 | 0.09 | 2000 | |
| Al | 27 | 1 | No Gas | 64.206 | 64.206 | 7.84 | 601262 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 3788.728 | 3788.728 | 3.21 | 19857643 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | -0.041 | -0.041 | -21.24 | 410 | -0.01 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.029 | 0.029 | 113.98 | 47 | 0.06 | 2000 | |
| Sr | 88 | 1 | No Gas | 73.027 | 73.027 | 0.65 | 1546818 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 2.369 | 2.369 | 1.18 | 10468 | 0.02 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.054 | 0.054 | 43.35 | 1513 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | 0.113 | 0.113 | 11.40 | 1753 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 40.893 | 40.893 | 1.85 | 149611 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | -0.010 | -0.010 | -19.36 | 470 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | -0.005 | -0.005 | -37.94 | 197 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | 1.239 | 1.239 | 3.60 | 27312 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.046 | 0.046 | 11.34 | 1317 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 6753.846 | 6753.846 | 1.88 | 11545 | 58.50 | 200000 | |
| Sb | 121 | 2 | He | 0.111 | 0.111 | 16.06 | 803 | 0.01 | 2000 | |
| Ti | 47 | 2 | He | 3.615 | 3.615 | 79.53 | 547 | 0.66 | 2000 | |
| Cu | 63 | 1 | No Gas | 2.878 | 2.878 | 1.97 | 20913 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 5.048 | 5.048 | 2.50 | 10958 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | -0.675 | -0.675 | -77.02 | 142 | -0.48 | 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 | 414752 | 0.76 | 471023 | 88.05 | 70 | 120 | |
| Ge | 72 | 2 | He | 441098 | 0.44 | 472743 | 93.31 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1516459 | 2.16 | 1532243 | 98.97 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1772929 | 1.03 | 1782326 | 99.47 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1331225 | 2.76 | 1201520 | 110.80 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | LCS-196608 |
| Data File Name | 208SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T17:56:50-05:00 |
| Sample Type | Sample |
| Dilution | 1 |
| Comment | TW DOD B 196608Tl |
| ISTD Ref FileName | 085CALB.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 | 96.402 | 96.402 | 2.21 | 547361 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 49.021 | 49.021 | 2.07 | 88896 | 0.06 | 2000 | |
| V | 51 | 2 | He | 48.962 | 48.962 | 5.78 | 172130 | 0.03 | 2000 | |
| Cr | 52 | 2 | He | 49.911 | 49.911 | 5.08 | 185253 | 0.03 | 2000 | |
| Fe | 56 | 2 | He | 5140.871 | 5140.871 | 4.99 | 15686122 | 0.03 | 200000 | |
| Se | 78 | 2 | He | 52.103 | 52.103 | 5.31 | 3924 | 1.33 | 2000 | |
| As | 75 | 2 | He | 50.790 | 50.790 | 5.21 | 33895 | 0.15 | 2000 | |
| Ca | 44 | 2 | He | 5093.610 | 5093.610 | 4.80 | 137669 | 3.70 | 200000 | |
| Na | 23 | 2 | He | 5446.837 | 5446.837 | 5.14 | 2858214 | 0.19 | 200000 | |
| Mg | 24 | 2 | He | 5250.684 | 5250.684 | 5.83 | 1622904 | 0.32 | 200000 | |
| K | 39 | 2 | He | 5076.155 | 5076.155 | 5.55 | 3077160 | 0.16 | 200000 | |
| Mn | 55 | 2 | He | 50.650 | 50.650 | 3.77 | 150532 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 50.636 | 50.636 | 5.03 | 231510 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 51.391 | 51.391 | 3.76 | 57736 | 0.09 | 2000 | |
| Cu | 63 | 2 | He | 60.232 | 60.232 | 4.67 | 164444 | 0.04 | 2000 | |
| Zn | 66 | 2 | He | 58.100 | 58.100 | 5.35 | 38234 | 0.15 | 2000 | |
| Al | 27 | 2 | He | 108.092 | 108.092 | 5.38 | 27387 | 0.39 | 2000 | |
| B | 11 | 1 | No Gas | 483.122 | 483.122 | 2.08 | 481495 | 0.10 | 2000 | |
| Al | 27 | 1 | No Gas | 104.435 | 104.435 | 4.40 | 914241 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 506.639 | 506.639 | 2.50 | 2877660 | 0.02 | 2000 | |
| Ag | 107 | 1 | No Gas | 48.578 | 48.578 | 2.77 | 469094 | 0.01 | 2000 | |
| Cd | 111 | 1 | No Gas | 49.137 | 49.137 | 1.54 | 94861 | 0.05 | 2000 | |
| Sr | 88 | 1 | No Gas | 96.077 | 96.077 | 4.52 | 1961553 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 46.429 | 46.429 | 2.56 | 185716 | 0.03 | 2000 | |
| Sn | 118 | 1 | No Gas | 97.303 | 97.303 | 2.58 | 585470 | 0.02 | 2000 | |
| Sb | 121 | 1 | No Gas | 50.900 | 50.900 | 1.57 | 439491 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 48.816 | 48.816 | 3.05 | 172207 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 43.149 | 43.149 | 0.93 | 609341 | 0.01 | 2000 | |
| Tl | 203 | 1 | No Gas | 43.670 | 43.670 | 0.72 | 255150 | 0.02 | 2000 | |
| Pb | 208 | 1 | No Gas | 48.749 | 48.749 | 1.36 | 1005546 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 97.509 | 97.509 | 2.83 | 1835862 | 0.01 | 2000 | |
| Ca | 43 | 2 | He | 5172.120 | 5172.120 | 5.37 | 8383 | 61.70 | 200000 | |
| Sb | 121 | 2 | He | 50.849 | 50.849 | 4.94 | 204370 | 0.02 | 2000 | |
| Ti | 47 | 2 | He | 150.230 | 150.230 | 5.86 | 20823 | 0.72 | 2000 | |
| Cu | 63 | 1 | No Gas | 58.370 | 58.370 | 2.09 | 386445 | 0.02 | 2000 | |
| Zn | 66 | 1 | No Gas | 56.177 | 56.177 | 1.49 | 110026 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | 48.260 | 48.260 | 6.16 | 7231 | 0.67 | 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 | 413419 | 2.08 | 471023 | 87.77 | 70 | 120 | |
| Ge | 72 | 2 | He | 417852 | 4.87 | 472743 | 88.39 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1454202 | 1.60 | 1532243 | 94.91 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1710586 | 2.70 | 1782326 | 95.97 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1281436 | 0.87 | 1201520 | 106.65 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060722-06SD |
| Data File Name | 210SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T18:00:33-05:00 |
| Sample Type | Sample |
| Dilution | 25 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 4.695 | 117.378 | 2.18 | 50636 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.018 | 0.453 | 26.75 | 57 | 0.03 | 2000 | |
| V | 51 | 2 | He | 2.877 | 71.933 | 2.60 | 22002 | 0.01 | 2000 | |
| Cr | 52 | 2 | He | 0.318 | 7.947 | 39.65 | 13617 | 0.00 | 2000 | |
| Fe | 56 | 2 | He | -0.349 | -8.730 | -113.15 | 39009 | 0.00 | 200000 | |
| Se | 78 | 2 | He | -0.330 | -8.244 | -42.12 | 168 | -0.20 | 2000 | |
| As | 75 | 2 | He | -0.023 | -0.574 | -260.53 | 374 | -0.01 | 2000 | |
| Ca | 44 | 2 | He | 5229.630 | 130740.758 | 2.20 | 141478 | 3.70 | 200000 | |
| Na | 23 | 2 | He | 14151.974 | 353799.358 | 1.67 | 7385545 | 0.19 | 200000 | |
| Mg | 24 | 2 | He | 2612.986 | 65324.638 | 2.86 | 809656 | 0.32 | 200000 | |
| K | 39 | 2 | He | 10.314 | 257.862 | 46.87 | 241463 | 0.00 | 200000 | |
| Mn | 55 | 2 | He | 13.968 | 349.204 | 0.57 | 41784 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 0.091 | 2.270 | 18.75 | 463 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 1.496 | 37.400 | 6.41 | 1974 | 0.08 | 2000 | |
| Cu | 63 | 2 | He | 0.082 | 2.039 | 30.35 | 420 | 0.02 | 2000 | |
| Zn | 66 | 2 | He | 0.916 | 22.907 | 20.58 | 867 | 0.11 | 2000 | |
| Al | 27 | 2 | He | 0.501 | 12.517 | 87.15 | 1117 | 0.04 | 2000 | |
| B | 11 | 1 | No Gas | 4.027 | 100.665 | 9.45 | 9662 | 0.04 | 2000 | |
| Al | 27 | 1 | No Gas | 0.349 | 8.721 | 35.44 | 37782 | 0.00 | 2000 | |
| Si | 28 | 1 | No Gas | 568.017 | 14200.420 | 4.28 | 3130527 | 0.02 | 2000 | |
| Ag | 107 | 1 | No Gas | -0.071 | -1.778 | -2.45 | 103 | -0.07 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.009 | 0.215 | 93.33 | 6 | 0.14 | 2000 | |
| Sr | 88 | 1 | No Gas | 119.541 | 2988.520 | 3.20 | 2434988 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.083 | 2.086 | 110.68 | 984 | 0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | -0.013 | -0.314 | -56.32 | 1057 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | -0.057 | -1.419 | -9.30 | 213 | -0.03 | 2000 | |
| Ba | 137 | 1 | No Gas | 1.198 | 29.958 | 5.42 | 4411 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 0.007 | 0.182 | 86.18 | 680 | 0.00 | 2000 | |
| Tl | 203 | 1 | No Gas | -0.004 | -0.099 | -154.45 | 193 | 0.00 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.002 | 0.062 | 284.21 | 810 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 0.089 | 2.226 | 10.92 | 2034 | 0.00 | 2000 | |
| Ca | 43 | 2 | He | 5254.832 | 131370.808 | 7.89 | 8516 | 61.70 | 200000 | |
| Sb | 121 | 2 | He | -0.054 | -1.339 | -13.47 | 100 | -0.05 | 2000 | |
| Ti | 47 | 2 | He | 0.041 | 1.030 | 268.92 | 23 | 0.18 | 2000 | |
| Cu | 63 | 1 | No Gas | 0.930 | 23.249 | 3.23 | 7079 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 0.895 | 22.367 | 7.97 | 2387 | 0.04 | 2000 | |
| Se | 82 | 1 | No Gas | -1.555 | -38.866 | -37.33 | 8 | -18.34 | 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 | 396294 | 1.37 | 471023 | 84.13 | 70 | 120 | |
| Ge | 72 | 2 | He | 417736 | 1.02 | 472743 | 88.36 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1432331 | 2.90 | 1532243 | 93.48 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1706349 | 2.72 | 1782326 | 95.74 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1252298 | 2.75 | 1201520 | 104.23 | 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\062823A.b |
| Acq Date Time | 2023-06-28T18:02:25-05:00 |
| Sample Type | CCV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| n | 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 | 97.557 | 1.557 | 533594 | 0.58 | 100 | 97.6 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 98.998 | 1.092 | 173019 | 0.37 | 100 | 99.0 | 90 | 110 | |
| V | 51 | 2 | He | 98.183 | 2.954 | 325619 | 1.14 | 100 | 98.2 | 90 | 110 | |
| Cr | 52 | 2 | He | 106.510 | 2.516 | 373203 | 0.72 | 100 | 106.5 | 90 | 110 | |
| Fe | 56 | 2 | He | 10068.033 | 2.975 | 30042527 | 1.15 | 10000 | 100.7 | 90 | 110 | |
| Se | 78 | 2 | He | 98.965 | 4.059 | 7129 | 2.17 | 100 | 99.0 | 90 | 110 | |
| As | 75 | 2 | He | 99.548 | 2.415 | 64691 | 0.65 | 100 | 99.5 | 90 | 110 | |
| Ca | 44 | 2 | He | 9917.441 | 1.666 | 261944 | 0.22 | 10000 | 99.2 | 90 | 110 | |
| Na | 23 | 2 | He | 10219.319 | 1.839 | 5224726 | 0.14 | 10000 | 102.2 | 90 | 110 | |
| Mg | 24 | 2 | He | 10091.116 | 2.749 | 3053373 | 0.99 | 10000 | 100.9 | 90 | 110 | |
| K | 39 | 2 | He | 9863.557 | 3.241 | 5637396 | 1.31 | 10000 | 98.6 | 90 | 110 | |
| Mn | 55 | 2 | He | 100.347 | 3.349 | 291578 | 1.53 | 100 | 100.3 | 90 | 110 | |
| Co | 59 | 2 | He | 100.134 | 2.130 | 448277 | 0.31 | 100 | 100.1 | 90 | 110 | |
| Ni | 60 | 2 | He | 106.465 | 2.660 | 116760 | 0.83 | 100 | 106.5 | 90 | 110 | |
| Cu | 63 | 2 | He | 100.599 | 2.439 | 268791 | 0.73 | 100 | 100.6 | 90 | 110 | |
| Zn | 66 | 2 | He | 102.647 | 1.525 | 65960 | 0.63 | 100 | 102.6 | 90 | 110 | |
| Al | 27 | 2 | He | 109.240 | 7.942 | 27078 | 5.83 | 100 | 109.2 | 90 | 110 | |
| B | 11 | 1 | No Gas | 511.057 | 1.013 | 490613 | 0.51 | 500 | 102.2 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 104.482 | 3.308 | 885489 | 0.51 | 100 | 104.5 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 614.263 | 1.325 | 3299657 | 1.68 | 5000 | 12.3 | 90 | 110 | CCV Main CR1-2 Failed |
| Ag | 107 | 1 | No Gas | 100.689 | 0.492 | 921211 | 1.34 | 100 | 100.7 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 99.142 | 0.759 | 181462 | 1.01 | 100 | 99.1 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 102.164 | 0.451 | 1978556 | 1.28 | 100 | 102.2 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 96.666 | 0.909 | 366013 | 2.01 | 100 | 96.7 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 101.425 | 0.269 | 578643 | 0.85 | 100 | 101.4 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 102.069 | 2.357 | 852427 | 0.64 | 100 | 102.1 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 100.595 | 0.835 | 336321 | 0.26 | 100 | 100.6 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 97.154 | 3.535 | 1270165 | 2.22 | 100 | 97.2 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 98.691 | 2.377 | 533912 | 1.26 | 100 | 98.7 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 99.818 | 1.429 | 1906903 | 1.31 | 100 | 99.8 | 90 | 110 | |
| U | 238 | 1 | No Gas | 101.420 | 2.504 | 1769013 | 0.53 | 100 | 101.4 | 90 | 110 | |
| Ca | 43 | 2 | He | 9747.919 | 5.610 | 15402 | 3.77 | 10000 | 97.5 | 90 | 110 | |
| Sb | 121 | 2 | He | 99.796 | 2.054 | 392474 | 0.24 | 100 | 99.8 | 90 | 110 | |
| Ti | 47 | 2 | He | 100.312 | 3.936 | 13620 | 2.13 | 100 | 100.3 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 100.983 | 1.735 | 646542 | 1.15 | 100 | 101.0 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 98.433 | 3.350 | 14046 | 2.73 | 100 | 98.4 | 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 | 398423 | 1.44 | 471023 | 84.59 | 70 | 120 | |
| Ge | 72 | 2 | He | 408631 | 1.81 | 472743 | 86.44 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1408076 | 2.87 | 1532243 | 91.90 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1621354 | 1.10 | 1782326 | 90.97 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1187488 | 2.69 | 1201520 | 98.83 | 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\062823A.b |
| Acq Date Time | 2023-06-28T18:04:14-05:00 |
| Sample Type | CCB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.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 | 0.495 | 4.5 | 30568 | 1.6 | 0.5 | |
| Be | 9 | 1 | No Gas | 0.063 | 11.8 | 142 | 10.8 | 0.5 | |
| V | 51 | 2 | He | -0.729 | -8.6 | 10248 | 0.8 | 2.5 | |
| Cr | 52 | 2 | He | 0.348 | 28.5 | 13740 | 2.1 | 2.5 | |
| Fe | 56 | 2 | He | -6.196 | -6.0 | 21208 | 4.7 | 100 | |
| Se | 78 | 2 | He | -0.155 | -198.4 | 181 | 11.7 | 2 | |
| As | 75 | 2 | He | -0.058 | -51.8 | 352 | 6.2 | 2.5 | |
| Ca | 44 | 2 | He | -1.186 | -64.2 | 517 | 4.0 | 100 | |
| Na | 23 | 2 | He | 220.007 | 1.6 | 145883 | 1.6 | 100 | CCB Main CR1 Failed |
| Mg | 24 | 2 | He | 1.335 | 27.6 | 2160 | 4.9 | 100 | |
| K | 39 | 2 | He | 6.004 | 124.3 | 239361 | 0.8 | 100 | |
| Mn | 55 | 2 | He | 0.068 | 37.3 | 523 | 14.1 | 2.5 | |
| Co | 59 | 2 | He | 0.011 | 52.1 | 97 | 26.0 | 2.5 | |
| Ni | 60 | 2 | He | -0.048 | -71.0 | 247 | 15.3 | 2.5 | |
| Cu | 63 | 2 | He | 0.084 | 14.5 | 427 | 7.5 | 2 | |
| Zn | 66 | 2 | He | 0.262 | 76.5 | 440 | 29.7 | 2.5 | |
| Al | 27 | 2 | He | -0.793 | -207.4 | 804 | 51.5 | 5 | |
| B | 11 | 1 | No Gas | 5.992 | 8.6 | 12170 | 3.1 | 0.5 | CCB Main CR1 Failed |
| Al | 27 | 1 | No Gas | -2.023 | -3.8 | 18009 | 5.0 | 5 | |
| Si | 28 | 1 | No Gas | -8.948 | -11.9 | 330085 | 1.7 | 10 | |
| Ag | 107 | 1 | No Gas | -0.057 | -7.1 | 230 | 15.7 | 2.5 | |
| Cd | 111 | 1 | No Gas | 0.012 | 71.1 | 12 | 127.7 | 1 | |
| Sr | 88 | 1 | No Gas | 0.000 | 1613.6 | 1270 | 6.4 | 2.5 | |
| Mo | 95 | 1 | No Gas | 0.074 | 124.2 | 920 | 38.7 | 2.5 | |
| Sn | 118 | 1 | No Gas | 0.095 | 45.8 | 1653 | 12.5 | 5 | |
| Sb | 121 | 1 | No Gas | -0.019 | -42.6 | 533 | 13.3 | 2.5 | |
| Ba | 137 | 1 | No Gas | 0.034 | 73.5 | 303 | 25.2 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.633 | 35.7 | 9137 | 32.3 | 1 | |
| Tl | 203 | 1 | No Gas | 0.619 | 33.9 | 3674 | 30.6 | 1 | |
| Pb | 208 | 1 | No Gas | 0.018 | 34.7 | 1107 | 10.0 | 2.5 | |
| U | 238 | 1 | No Gas | 0.004 | 92.1 | 460 | 15.2 | 2.5 | |
| Ca | 43 | 2 | He | -5.315 | -854.1 | 47 | 155.0 | 100 | |
| Sb | 121 | 2 | He | -0.008 | -216.8 | 283 | 23.0 | 2.5 | |
| Ti | 47 | 2 | He | -0.055 | -130.7 | 10 | 100.0 | 2.5 | |
| Cu | 63 | 1 | No Gas | 1.115 | 3.4 | 8226 | 0.5 | 2.5 | |
| Se | 82 | 1 | No Gas | -0.728 | -47.4 | 126 | 40.3 | 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 | 418851 | 1.28 | 471023 | 88.92 | 70 | 120 | |
| Ge | 72 | 2 | He | 418310 | 1.20 | 472743 | 88.49 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1422163 | 2.61 | 1532243 | 92.82 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1661472 | 2.86 | 1782326 | 93.22 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1232041 | 1.48 | 1201520 | 102.54 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23060722-06PDS |
| Data File Name | 213SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T18:06:07-05:00 |
| Sample Type | Sample |
| Dilution | 5 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 21.080 | 105.400 | 1.73 | 137726 | 0.02 | 2000 | |
| Be | 9 | 1 | No Gas | 98.474 | 492.371 | 2.59 | 174170 | 0.06 | 2000 | |
| V | 51 | 2 | He | 97.846 | 489.232 | 1.34 | 332513 | 0.03 | 2000 | |
| Cr | 52 | 2 | He | 97.618 | 488.091 | 0.34 | 351492 | 0.03 | 2000 | |
| Fe | 56 | 2 | He | 9997.528 | 49987.639 | 0.82 | 30566154 | 0.03 | 200000 | |
| Se | 78 | 2 | He | 98.080 | 490.398 | 1.59 | 7241 | 1.35 | 2000 | |
| As | 75 | 2 | He | 100.209 | 501.045 | 0.73 | 66716 | 0.15 | 2000 | |
| Ca | 44 | 2 | He | 35937.282 | 179686.408 | 2.35 | 970841 | 3.70 | 200000 | |
| Na | 23 | 2 | He | 78908.508 | 394542.538 | 0.92 | 41118874 | 0.19 | 200000 | |
| Mg | 24 | 2 | He | 22229.790 | 111148.952 | 1.32 | 6889528 | 0.32 | 200000 | |
| K | 39 | 2 | He | 10025.566 | 50127.831 | 0.74 | 5867083 | 0.17 | 200000 | |
| Mn | 55 | 2 | He | 165.770 | 828.848 | 1.15 | 493341 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 98.053 | 490.263 | 1.60 | 449689 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 104.397 | 521.986 | 0.30 | 117315 | 0.09 | 2000 | |
| Cu | 63 | 2 | He | 97.571 | 487.855 | 1.26 | 267088 | 0.04 | 2000 | |
| Zn | 66 | 2 | He | 100.872 | 504.362 | 0.95 | 66409 | 0.15 | 2000 | |
| Al | 27 | 2 | He | 102.177 | 510.885 | 1.27 | 26028 | 0.39 | 2000 | |
| B | 11 | 1 | No Gas | 8.476 | 42.380 | 1.76 | 14106 | 0.06 | 2000 | |
| Al | 27 | 1 | No Gas | 102.023 | 510.117 | 2.34 | 873452 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 2983.358 | 14916.791 | 1.96 | 14730552 | 0.02 | 2000 | >LDR |
| Ag | 107 | 1 | No Gas | 99.511 | 497.554 | 2.26 | 915222 | 0.01 | 2000 | |
| Cd | 111 | 1 | No Gas | 99.104 | 495.521 | 2.10 | 182359 | 0.05 | 2000 | |
| Sr | 88 | 1 | No Gas | 589.903 | 2949.516 | 2.60 | 11477844 | 0.01 | 2000 | |
| Mo | 95 | 1 | No Gas | 97.973 | 489.866 | 2.20 | 372891 | 0.03 | 2000 | |
| Sn | 118 | 1 | No Gas | -0.002 | -0.008 | -841.84 | 1073 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | 99.117 | 495.587 | 1.71 | 835376 | 0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 106.357 | 531.787 | 2.32 | 357465 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | 106.680 | 533.401 | 1.41 | 1389707 | 0.01 | 2000 | |
| Tl | 203 | 1 | No Gas | 109.795 | 548.974 | 0.30 | 591794 | 0.02 | 2000 | |
| Pb | 208 | 1 | No Gas | 99.247 | 496.233 | 0.21 | 1888873 | 0.01 | 2000 | |
| U | 238 | 1 | No Gas | 0.470 | 2.352 | 2.96 | 8543 | 0.01 | 2000 | |
| Ca | 43 | 2 | He | 35238.496 | 176192.479 | 0.84 | 56925 | 61.90 | 200000 | |
| Sb | 121 | 2 | He | 96.707 | 483.534 | 1.69 | 389638 | 0.02 | 2000 | |
| Ti | 47 | 2 | He | 101.886 | 509.431 | 2.78 | 14174 | 0.72 | 2000 | |
| Cu | 63 | 1 | No Gas | 101.477 | 507.383 | 1.87 | 655548 | 0.02 | 2000 | |
| Zn | 66 | 1 | No Gas | 100.180 | 500.898 | 1.11 | 191160 | 0.05 | 2000 | |
| Se | 82 | 1 | No Gas | 95.225 | 476.124 | 4.24 | 13715 | 0.69 | 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 | 403255 | 1.40 | 471023 | 85.61 | 70 | 120 | |
| Ge | 72 | 2 | He | 418548 | 1.02 | 472743 | 88.54 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1420593 | 1.85 | 1532243 | 92.71 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1630607 | 2.90 | 1782326 | 91.49 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1182727 | 0.35 | 1201520 | 98.44 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23061096-02 |
| Data File Name | 218SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T18:23:22-05:00 |
| Sample Type | Sample |
| Dilution | 20 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 4.105 | 82.093 | 5.23 | 51837 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.000 | 0.010 | 1176.42 | 28 | 0.00 | 2000 | |
| V | 51 | 2 | He | -0.466 | -9.315 | -22.27 | 11502 | 0.00 | 2000 | |
| Cr | 52 | 2 | He | 0.478 | 9.567 | 43.70 | 14695 | 0.00 | 2000 | |
| Fe | 56 | 2 | He | 51.032 | 1020.644 | 1.87 | 202801 | 0.03 | 200000 | |
| Se | 78 | 2 | He | -0.314 | -6.289 | -59.29 | 175 | -0.18 | 2000 | |
| As | 75 | 2 | He | -0.034 | -0.680 | -130.83 | 381 | -0.01 | 2000 | |
| Ca | 44 | 2 | He | 3401.921 | 68038.414 | 0.88 | 95631 | 3.56 | 200000 | |
| Na | 23 | 2 | He | 12549.060 | 250981.192 | 1.78 | 6794181 | 0.18 | 200000 | |
| Mg | 24 | 2 | He | 2068.217 | 41364.341 | 0.70 | 664967 | 0.31 | 200000 | |
| K | 39 | 2 | He | 1179.474 | 23589.473 | 2.36 | 929885 | 0.13 | 200000 | |
| Mn | 55 | 2 | He | 6.136 | 122.712 | 2.42 | 19217 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 0.080 | 1.591 | 23.65 | 427 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 0.005 | 0.091 | 512.75 | 317 | 0.00 | 2000 | |
| Cu | 63 | 2 | He | 0.126 | 2.512 | 19.31 | 560 | 0.02 | 2000 | |
| Zn | 66 | 2 | He | 0.529 | 10.586 | 13.63 | 637 | 0.08 | 2000 | |
| Al | 27 | 2 | He | -0.172 | -3.438 | -121.62 | 987 | -0.02 | 2000 | |
| B | 11 | 1 | No Gas | 5.768 | 115.359 | 4.06 | 12319 | 0.05 | 2000 | |
| Al | 27 | 1 | No Gas | -0.154 | -3.071 | -118.02 | 35117 | 0.00 | 2000 | |
| Si | 28 | 1 | No Gas | 753.312 | 15066.244 | 4.79 | 4205502 | 0.02 | 2000 | |
| Ag | 107 | 1 | No Gas | -0.073 | -1.466 | -3.01 | 83 | -0.09 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.008 | 0.163 | 33.44 | 5 | 0.15 | 2000 | |
| Sr | 88 | 1 | No Gas | 151.428 | 3028.565 | 0.77 | 3121125 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | -0.049 | -0.988 | -15.11 | 460 | -0.01 | 2000 | |
| Sn | 118 | 1 | No Gas | -0.063 | -1.263 | -39.48 | 763 | -0.01 | 2000 | |
| Sb | 121 | 1 | No Gas | -0.050 | -1.005 | -12.64 | 280 | -0.02 | 2000 | |
| Ba | 137 | 1 | No Gas | 37.898 | 757.965 | 0.84 | 135014 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | -0.033 | -0.668 | -3.47 | 120 | -0.03 | 2000 | |
| Tl | 203 | 1 | No Gas | -0.029 | -0.581 | -15.53 | 50 | -0.06 | 2000 | |
| Pb | 208 | 1 | No Gas | -0.002 | -0.030 | -255.88 | 727 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | -0.014 | -0.285 | -3.99 | 130 | -0.01 | 2000 | |
| Ca | 43 | 2 | He | 3478.995 | 69579.903 | 2.38 | 5868 | 59.29 | 200000 | |
| Sb | 121 | 2 | He | -0.033 | -0.657 | -44.85 | 190 | -0.02 | 2000 | |
| Ti | 47 | 2 | He | 0.012 | 0.233 | 594.61 | 20 | 0.06 | 2000 | |
| Cu | 63 | 1 | No Gas | 1.360 | 27.209 | 6.64 | 10321 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 0.620 | 12.403 | 8.86 | 1944 | 0.03 | 2000 | |
| Se | 82 | 1 | No Gas | -1.287 | -25.744 | -28.96 | 49 | -2.64 | 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 | 431806 | 1.77 | 471023 | 91.67 | 70 | 120 | |
| Ge | 72 | 2 | He | 433122 | 0.67 | 472743 | 91.62 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1494728 | 1.93 | 1532243 | 97.55 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1726018 | 1.43 | 1782326 | 96.84 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1247514 | 2.68 | 1201520 | 103.83 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23061096-05 |
| Data File Name | 219SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T18:25:14-05:00 |
| Sample Type | Sample |
| Dilution | 20 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 2.546 | 50.910 | 0.82 | 43261 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.004 | 0.078 | 72.70 | 35 | 0.01 | 2000 | |
| V | 51 | 2 | He | 0.130 | 2.599 | 100.41 | 13354 | 0.00 | 2000 | |
| Cr | 52 | 2 | He | 0.326 | 6.514 | 67.37 | 13977 | 0.00 | 2000 | |
| Fe | 56 | 2 | He | 183.925 | 3678.502 | 1.13 | 615236 | 0.03 | 200000 | |
| Se | 78 | 2 | He | -0.287 | -5.738 | -153.22 | 175 | -0.16 | 2000 | |
| As | 75 | 2 | He | 0.039 | 0.770 | 65.48 | 426 | 0.01 | 2000 | |
| Ca | 44 | 2 | He | 1991.249 | 39824.983 | 1.90 | 55532 | 3.59 | 200000 | |
| Na | 23 | 2 | He | 25898.361 | 517967.213 | 1.40 | 13819190 | 0.19 | 200000 | |
| Mg | 24 | 2 | He | 1537.275 | 30745.507 | 1.39 | 488758 | 0.31 | 200000 | |
| K | 39 | 2 | He | 51.138 | 1022.753 | 14.65 | 270795 | 0.02 | 200000 | |
| Mn | 55 | 2 | He | 58.907 | 1178.138 | 2.11 | 179438 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 1.171 | 23.418 | 3.23 | 5538 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 0.461 | 9.226 | 12.13 | 837 | 0.06 | 2000 | |
| Cu | 63 | 2 | He | 0.256 | 5.113 | 8.92 | 917 | 0.03 | 2000 | |
| Zn | 66 | 2 | He | 0.784 | 15.681 | 15.54 | 800 | 0.10 | 2000 | |
| Al | 27 | 2 | He | 11.180 | 223.608 | 39.47 | 3813 | 0.29 | 2000 | |
| B | 11 | 1 | No Gas | 4.168 | 83.364 | 7.86 | 10723 | 0.04 | 2000 | |
| Al | 27 | 1 | No Gas | 9.996 | 199.929 | 25.44 | 120816 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 720.411 | 14408.215 | 2.24 | 3973913 | 0.02 | 2000 | |
| Ag | 107 | 1 | No Gas | -0.071 | -1.423 | -4.82 | 103 | -0.07 | 2000 | |
| Cd | 111 | 1 | No Gas | 0.020 | 0.399 | 43.09 | 29 | 0.07 | 2000 | |
| Sr | 88 | 1 | No Gas | 35.244 | 704.887 | 4.18 | 721935 | 0.00 | 2000 | |
| Mo | 95 | 1 | No Gas | 1.345 | 26.901 | 5.61 | 6038 | 0.02 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.054 | 1.078 | 279.26 | 1462 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | -0.042 | -0.830 | -30.62 | 350 | -0.01 | 2000 | |
| Ba | 137 | 1 | No Gas | 8.409 | 168.182 | 5.20 | 29875 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | -0.035 | -0.702 | -5.78 | 97 | -0.04 | 2000 | |
| Tl | 203 | 1 | No Gas | -0.033 | -0.650 | -5.45 | 30 | -0.11 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.022 | 0.432 | 40.70 | 1187 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 1.074 | 21.474 | 1.57 | 20047 | 0.01 | 2000 | |
| Ca | 43 | 2 | He | 1959.643 | 39192.860 | 5.14 | 3290 | 59.56 | 200000 | |
| Sb | 121 | 2 | He | -0.051 | -1.017 | -7.09 | 113 | -0.04 | 2000 | |
| Ti | 47 | 2 | He | 0.391 | 7.814 | 93.81 | 73 | 0.53 | 2000 | |
| Cu | 63 | 1 | No Gas | 1.667 | 33.347 | 3.91 | 12196 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 0.681 | 13.615 | 9.46 | 2030 | 0.03 | 2000 | |
| Se | 82 | 1 | No Gas | -0.416 | -8.314 | -28.04 | 176 | -0.24 | 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 | 433772 | 1.22 | 471023 | 92.09 | 70 | 120 | |
| Ge | 72 | 2 | He | 427927 | 0.79 | 472743 | 90.52 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1470218 | 2.25 | 1532243 | 95.95 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1714683 | 3.82 | 1782326 | 96.20 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1246063 | 1.24 | 1201520 | 103.71 | 70 | 120 | |

# Sample Report

**Sample Table**

| | |
|---|---|
| Sample Name | HS23061096-06 |
| Data File Name | 220SMPL.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T18:27:07-05:00 |
| Sample Type | Sample |
| Dilution | 20 |
| Comment | TW DOD B 196608 |
| ISTD Ref FileName | 085CALB.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 | 2.646 | 52.918 | 5.76 | 42736 | 0.01 | 2000 | |
| Be | 9 | 1 | No Gas | 0.009 | 0.176 | 32.15 | 43 | 0.02 | 2000 | |
| V | 51 | 2 | He | 0.450 | 8.999 | 2.65 | 14458 | 0.00 | 2000 | |
| Cr | 52 | 2 | He | 0.350 | 7.002 | 41.09 | 14094 | 0.00 | 2000 | |
| Fe | 56 | 2 | He | 198.511 | 3970.214 | 1.77 | 662164 | 0.03 | 200000 | |
| Se | 78 | 2 | He | -0.399 | -7.978 | -65.50 | 167 | -0.24 | 2000 | |
| As | 75 | 2 | He | 0.120 | 2.393 | 74.46 | 481 | 0.02 | 2000 | |
| Ca | 44 | 2 | He | 2156.819 | 43136.388 | 2.09 | 60235 | 3.58 | 200000 | |
| Na | 23 | 2 | He | 27536.157 | 550723.134 | 1.69 | 14722914 | 0.19 | 200000 | |
| Mg | 24 | 2 | He | 1625.790 | 32515.804 | 1.90 | 517919 | 0.31 | 200000 | |
| K | 39 | 2 | He | 45.557 | 911.131 | 22.43 | 268177 | 0.02 | 200000 | |
| Mn | 55 | 2 | He | 62.659 | 1253.171 | 1.58 | 191267 | 0.03 | 2000 | |
| Co | 59 | 2 | He | 1.213 | 24.263 | 5.59 | 5748 | 0.02 | 2000 | |
| Ni | 60 | 2 | He | 0.388 | 7.752 | 19.67 | 753 | 0.05 | 2000 | |
| Cu | 63 | 2 | He | 0.058 | 1.150 | 50.17 | 363 | 0.02 | 2000 | |
| Zn | 66 | 2 | He | 0.637 | 12.746 | 10.50 | 703 | 0.09 | 2000 | |
| Al | 27 | 2 | He | 14.489 | 289.779 | 21.71 | 4661 | 0.31 | 2000 | |
| B | 11 | 1 | No Gas | 3.887 | 77.734 | 0.49 | 10177 | 0.04 | 2000 | |
| Al | 27 | 1 | No Gas | 12.357 | 247.141 | 7.30 | 136626 | 0.01 | 2000 | |
| Si | 28 | 1 | No Gas | 779.952 | 15599.039 | 6.30 | 4138517 | 0.02 | 2000 | |
| Ag | 107 | 1 | No Gas | -0.067 | -1.338 | -8.44 | 140 | -0.05 | 2000 | |
| Cd | 111 | 1 | No Gas | -0.005 | -0.098 | -174.89 | -20 | 0.03 | 2000 | |
| Sr | 88 | 1 | No Gas | 38.900 | 777.995 | 4.06 | 766681 | 0.01 | 2000 | |
| Mo | 95 | 1 | No Gas | 0.014 | 0.288 | 124.61 | 683 | 0.00 | 2000 | |
| Sn | 118 | 1 | No Gas | 0.034 | 0.675 | 328.27 | 1304 | 0.00 | 2000 | |
| Sb | 121 | 1 | No Gas | -0.053 | -1.061 | -11.63 | 243 | -0.02 | 2000 | |
| Ba | 137 | 1 | No Gas | 9.538 | 190.752 | 1.63 | 32611 | 0.03 | 2000 | |
| Tl | 205 | 1 | No Gas | -0.034 | -0.680 | -4.81 | 107 | -0.03 | 2000 | |
| Tl | 203 | 1 | No Gas | -0.030 | -0.609 | -5.55 | 40 | -0.08 | 2000 | |
| Pb | 208 | 1 | No Gas | 0.031 | 0.618 | 33.53 | 1313 | 0.00 | 2000 | |
| U | 238 | 1 | No Gas | 1.237 | 24.734 | 3.24 | 21953 | 0.01 | 2000 | |
| Ca | 43 | 2 | He | 2101.177 | 42023.536 | 5.97 | 3531 | 59.51 | 200000 | |
| Sb | 121 | 2 | He | -0.035 | -0.693 | -56.53 | 180 | -0.02 | 2000 | |
| Ti | 47 | 2 | He | 0.130 | 2.609 | 136.54 | 37 | 0.36 | 2000 | |
| Cu | 63 | 1 | No Gas | 1.621 | 32.425 | 4.96 | 11525 | 0.01 | 2000 | |
| Zn | 66 | 1 | No Gas | 0.649 | 12.977 | 6.42 | 1910 | 0.03 | 2000 | |
| Se | 82 | 1 | No Gas | -0.999 | -19.974 | -46.88 | 88 | -1.13 | 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 | 423062 | 2.15 | 471023 | 89.82 | 70 | 120 | |
| Ge | 72 | 2 | He | 428860 | 0.75 | 472743 | 90.72 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1426781 | 4.41 | 1532243 | 93.12 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1650080 | 3.85 | 1782326 | 92.58 | 70 | 120 | |

# Sample Report

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bi | 209 | 1 | No Gas | 1188418 | 2.82 | 1201520 | 98.91 | 70 | 120 | |

# Continuing Calibration Verification (CCV) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCV |
| Data File Name | 222_CCV.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T18:33:00-05:00 |
| Sample Type | CCV |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.d |
| n | 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 | 99.646 | 1.919 | 568274 | 1.07 | 100 | 99.6 | 90 | 110 | |
| Be | 9 | 1 | No Gas | 100.640 | 1.318 | 183583 | 0.60 | 100 | 100.6 | 90 | 110 | |
| V | 51 | 2 | He | 101.099 | 2.386 | 343240 | 0.86 | 100 | 101.1 | 90 | 110 | |
| Cr | 52 | 2 | He | 103.423 | 1.868 | 371755 | 0.65 | 100 | 103.4 | 90 | 110 | |
| Fe | 56 | 2 | He | 10287.494 | 1.744 | 31461726 | 0.79 | 10000 | 102.9 | 90 | 110 | |
| Se | 78 | 2 | He | 101.701 | 3.998 | 7502 | 2.41 | 100 | 101.7 | 90 | 110 | |
| As | 75 | 2 | He | 100.388 | 2.173 | 66851 | 0.84 | 100 | 100.4 | 90 | 110 | |
| Ca | 44 | 2 | He | 10104.786 | 3.570 | 273442 | 2.18 | 10000 | 101.0 | 90 | 110 | |
| Na | 23 | 2 | He | 10363.568 | 2.334 | 5429309 | 1.63 | 10000 | 103.6 | 90 | 110 | |
| Mg | 24 | 2 | He | 10252.301 | 0.874 | 3179629 | 1.02 | 10000 | 102.5 | 90 | 110 | |
| K | 39 | 2 | He | 9984.860 | 2.390 | 5845694 | 0.67 | 10000 | 99.8 | 90 | 110 | |
| Mn | 55 | 2 | He | 101.900 | 1.024 | 303507 | 1.14 | 100 | 101.9 | 90 | 110 | |
| Co | 59 | 2 | He | 102.949 | 2.352 | 472281 | 0.75 | 100 | 102.9 | 90 | 110 | |
| Ni | 60 | 2 | He | 102.311 | 1.673 | 115009 | 0.73 | 100 | 102.3 | 90 | 110 | |
| Cu | 63 | 2 | He | 103.846 | 1.220 | 284380 | 1.27 | 100 | 103.8 | 90 | 110 | |
| Zn | 66 | 2 | He | 102.453 | 1.429 | 67474 | 1.94 | 100 | 102.5 | 90 | 110 | |
| Al | 27 | 2 | He | 101.312 | 3.540 | 25824 | 2.89 | 100 | 101.3 | 90 | 110 | |
| B | 11 | 1 | No Gas | 506.052 | 0.445 | 507141 | 0.32 | 500 | 101.2 | 90 | 110 | |
| Al | 27 | 1 | No Gas | 102.980 | 0.671 | 902515 | 1.68 | 100 | 103.0 | 90 | 110 | |
| Si | 28 | 1 | No Gas | 490.677 | 2.443 | 2799353 | 1.17 | 5000 | 9.8 | 90 | 110 | CCV Main CR1-2 Failed |
| Ag | 107 | 1 | No Gas | 99.029 | 2.049 | 962255 | 0.35 | 100 | 99.0 | 90 | 110 | |
| Cd | 111 | 1 | No Gas | 99.882 | 2.296 | 194161 | 0.15 | 100 | 99.9 | 90 | 110 | |
| Sr | 88 | 1 | No Gas | 98.713 | 1.416 | 2030621 | 1.02 | 100 | 98.7 | 90 | 110 | |
| Mo | 95 | 1 | No Gas | 95.582 | 1.961 | 384361 | 0.60 | 100 | 95.6 | 90 | 110 | |
| Sn | 118 | 1 | No Gas | 100.080 | 2.241 | 606415 | 0.24 | 100 | 100.1 | 90 | 110 | |
| Sb | 121 | 1 | No Gas | 99.219 | 0.891 | 856185 | 0.58 | 100 | 99.2 | 90 | 110 | |
| Ba | 137 | 1 | No Gas | 98.790 | 1.685 | 350832 | 0.82 | 100 | 98.8 | 90 | 110 | |
| Tl | 205 | 1 | No Gas | 106.806 | 1.060 | 1453445 | 1.63 | 100 | 106.8 | 90 | 110 | |
| Tl | 203 | 1 | No Gas | 109.281 | 0.306 | 615279 | 0.66 | 100 | 109.3 | 90 | 110 | |
| Pb | 208 | 1 | No Gas | 99.554 | 1.034 | 1979221 | 1.54 | 100 | 99.6 | 90 | 110 | |
| U | 238 | 1 | No Gas | 100.425 | 1.035 | 1823152 | 0.91 | 100 | 100.4 | 90 | 110 | |
| Ca | 43 | 2 | He | 10079.227 | 3.350 | 16330 | 4.04 | 10000 | 100.8 | 90 | 110 | |
| Sb | 121 | 2 | He | 98.264 | 1.822 | 396029 | 0.23 | 100 | 98.3 | 90 | 110 | |
| Ti | 47 | 2 | He | 102.297 | 3.572 | 14234 | 2.03 | 100 | 102.3 | 90 | 110 | |
| Cu | 63 | 1 | No Gas | 102.217 | 0.730 | 676108 | 0.31 | 100 | 102.2 | 90 | 110 | |
| Se | 82 | 1 | No Gas | 94.700 | 2.735 | 13969 | 1.94 | 100 | 94.7 | 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 | 415839 | 0.75 | 471023 | 88.28 | 70 | 120 | |
| Ge | 72 | 2 | He | 418748 | 1.85 | 472743 | 88.58 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1454310 | 1.03 | 1532243 | 94.91 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1722554 | 2.42 | 1782326 | 96.65 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1235439 | 0.65 | 1201520 | 102.82 | 70 | 120 | |

# Continuing Calibration Blank (CCB) Report

**Sample Table**

| | |
|---|---|
| Sample Name | CCB |
| Data File Name | 223_CCB.d |
| Data Path Name | C:\Agilent\ICPMH\1\DATA\062823A.b |
| Acq Date Time | 2023-06-28T18:34:50-05:00 |
| Sample Type | CCB |
| Dilution | 1 |
| Comment | |
| ISTD Ref File Name | 085CALB.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 | 0.408 | 30.5 | 30922 | 3.4 | 0.5 | |
| Be | 9 | 1 | No Gas | 0.052 | 25.3 | 125 | 18.3 | 0.5 | |
| V | 51 | 2 | He | -1.085 | -5.9 | 9236 | 1.1 | 2.5 | |
| Cr | 52 | 2 | He | 0.311 | 7.3 | 13841 | 0.9 | 2.5 | |
| Fe | 56 | 2 | He | -5.085 | -12.7 | 25019 | 8.2 | 100 | |
| Se | 78 | 2 | He | -0.082 | -456.3 | 189 | 15.7 | 2 | |
| As | 75 | 2 | He | -0.023 | -109.9 | 381 | 3.6 | 2.5 | |
| Ca | 44 | 2 | He | -3.680 | -40.9 | 457 | 8.3 | 100 | |
| Na | 23 | 2 | He | 136.070 | 3.6 | 103895 | 1.4 | 100 | CCB Main CR1 Failed |
| Mg | 24 | 2 | He | 0.583 | 59.9 | 1960 | 5.9 | 100 | |
| K | 39 | 2 | He | -1.011 | -442.4 | 239379 | 0.2 | 100 | |
| Mn | 55 | 2 | He | 0.044 | 26.4 | 460 | 7.8 | 2.5 | |
| Co | 59 | 2 | He | 0.016 | 31.6 | 123 | 20.4 | 2.5 | |
| Ni | 60 | 2 | He | 0.000 | 10897.4 | 307 | 19.1 | 2.5 | |
| Cu | 63 | 2 | He | 0.037 | 69.4 | 303 | 23.8 | 2 | |
| Zn | 66 | 2 | He | 0.256 | 23.4 | 443 | 9.1 | 2.5 | |
| Al | 27 | 2 | He | -1.532 | -40.0 | 630 | 24.0 | 5 | |
| B | 11 | 1 | No Gas | 4.334 | 5.7 | 10809 | 1.8 | 0.5 | CCB Main CR1 Failed |
| Al | 27 | 1 | No Gas | -1.984 | -4.0 | 19140 | 1.3 | 5 | |
| Si | 28 | 1 | No Gas | -10.920 | -6.8 | 335029 | 1.9 | 10 | |
| Ag | 107 | 1 | No Gas | -0.053 | -9.8 | 277 | 18.2 | 2.5 | |
| Cd | 111 | 1 | No Gas | 0.010 | 149.2 | 9 | 322.9 | 1 | |
| Sr | 88 | 1 | No Gas | -0.008 | -91.9 | 1140 | 12.3 | 2.5 | |
| Mo | 95 | 1 | No Gas | -0.008 | -36.8 | 627 | 1.8 | 2.5 | |
| Sn | 118 | 1 | No Gas | 0.042 | 28.2 | 1397 | 6.4 | 5 | |
| Sb | 121 | 1 | No Gas | 0.432 | 16.0 | 4521 | 12.1 | 2.5 | |
| Ba | 137 | 1 | No Gas | 0.055 | 28.9 | 393 | 14.0 | 2.5 | |
| Tl | 205 | 1 | No Gas | 0.046 | 58.5 | 1210 | 28.7 | 1 | |
| Tl | 203 | 1 | No Gas | 0.065 | 14.3 | 583 | 7.1 | 1 | |
| Pb | 208 | 1 | No Gas | 0.018 | 19.7 | 1110 | 6.8 | 2.5 | |
| U | 238 | 1 | No Gas | 0.004 | 176.2 | 460 | 24.5 | 2.5 | |
| Ca | 43 | 2 | He | -14.182 | -66.9 | 33 | 45.8 | 100 | |
| Sb | 121 | 2 | He | 0.350 | 5.8 | 1753 | 3.7 | 2.5 | |
| Ti | 47 | 2 | He | -0.104 | -38.7 | 3 | 173.2 | 2.5 | |
| Cu | 63 | 1 | No Gas | 1.263 | 5.6 | 9590 | 2.6 | 2.5 | |
| Se | 82 | 1 | No Gas | -1.308 | -5.3 | 45 | 25.8 | 2 | |

**QC ISTD Table**

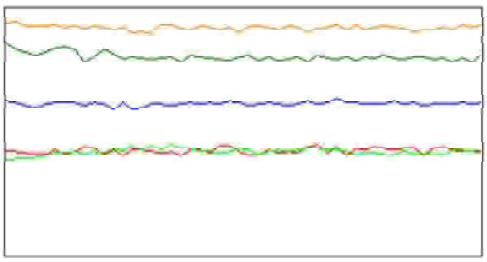
| Name | Mass | Tune Step | Tune Mode | CPS | %RSD | Ref CPS | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 1 | No Gas | 430378 | 1.39 | 471023 | 91.37 | 70 | 120 | |
| Ge | 72 | 2 | He | 425320 | 1.25 | 472743 | 89.97 | 70 | 120 | |
| Ge | 72 | 1 | No Gas | 1486137 | 2.63 | 1532243 | 96.99 | 70 | 120 | |
| In | 115 | 1 | No Gas | 1723412 | 2.47 | 1782326 | 96.69 | 70 | 120 | |
| Bi | 209 | 1 | No Gas | 1250925 | 1.91 | 1201520 | 104.11 | 70 | 120 | |

# Tune Check Report

| | |
|---|---|
| **Operator Name** | ALSHS NoUser |
| **Acq/Data Batch** | C:\Agilent\ICPMH\1\DATA\062823A.b |
| **Acq. Date-Time** | 6/28/2023 9:49:00 AM |
| **Report Comment** | --- |
| **Instrument Name** | G8421A SG18523544 |

**[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 | 2131 | 21308.80 | | |
| 24 | 50000 | 21109 | 211089.46 | | |
| 59 | 20000 | 12327 | 123274.98 | | |
| 115 | 20000 | 18500 | 185000.79 | | |
| 208 | 10000 | 8080 | 80799.07 | | |

| Mass | Resp Ratio | Resp Ratio (Required) | Resp Ratio (Flag) |
|---|---|---|---|
| 9 | | - | |
| 24 | | - | |
| 59 | | - | |
| 115 | | - | |
| 208 | | - | |

| Mass | RSD% | RSD% (Required) | RSD% (Flag) |
|---|---|---|---|
| 9 | 2.651 | 5.000 | |
| 24 | 2.972 | 5.000 | |
| 59 | 1.315 | 5.000 | |
| 115 | 1.139 | 5.000 | |
| 208 | 2.111 | 5.000 | |

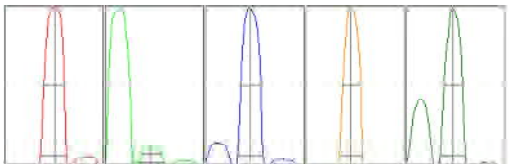
| Mass | Background | Background (Required) | Background (Flag) |
|---|---|---|---|
| 9 | 1.800 | | |
| 24 | 1.600 | | |
| 59 | 1.500 | | |
| 115 | 1.900 | | |
| 208 | 5.000 | | |

**Oxide/Doubly Charged Ratio**

| | |
|---|---|
| Oxide | 156 / 140 1.735 % |
| Doubly Charged | 70 / 140 0.883 % |

# 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 | 2139.95 | 9.05 | 8.90 - 9.10 | |
| 24 | 20388.59 | 23.90 | 23.90 - 24.10 | |
| 59 | 12575.07 | 58.90 | 58.90 - 59.10 | |
| 115 | 19196.56 | 114.90 | 114.90 - 115.10 | |
| 208 | 7991.45 | 207.95 | 207.90 - 208.10 | |

| Mass | W-50% | W-5% | W-5% (Required) | W-5% (Flag) |
|---|---|---|---|---|
| 9 | 0.64 | 0.785 | | |
| 24 | 0.63 | 0.777 | | |
| 59 | 0.59 | 0.772 | | |
| 115 | 0.54 | 0.689 | | |
| 208 | 0.57 | 0.773 | | |

## Tune Parameters

### Plasma Parameters

| | | | | | |
|---|---|---|---|---|---|
| Plasma Mode | --- | Nebulizer Gas | 0.60 L/min | Dilution Gas | 0.40 L/min |
| RF Power | 1600 W | Option Gas | --- | Auxiliary Gas | 0.90 L/min |
| RF Matching | 1.80 V | Nebulizer Pump | 0.10 rps | Plasma Gas | 15.0 L/min |
| Sample Depth | 8.0 mm | S/C Temp | 2 °C | | |

### Lens Parameters

| | | | | | |
|---|---|---|---|---|---|
| Extract 1 | 0.0 V | Omega Lens | 10.8 V | Deflect | 15.8 V |
| Extract 2 | -200.0 V | Cell Entrance | -30 V | Plate Bias | -50 V |
| Omega Bias | -90 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 | 134 | Axis Gain | 1.0003 | QP Bias | -3.0 V |
| Mass Offset | 125 | Axis Offset | 0.07 | | |

## Hardware Settings

### Torch

| | | | |
|---|---|---|---|
| Torch H | 0.7 mm | Torch V | -0.7 mm |

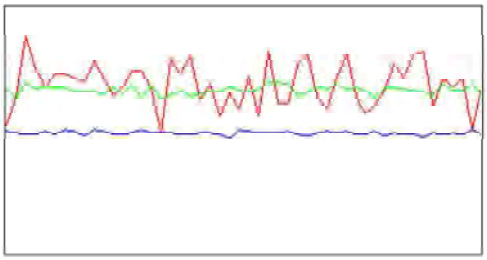
### EM

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 4.7 mV | Analog HV | 3003 V | Pulse HV | 1644 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 | 100 | 69 | 686.62 | | |
| 24 | 2000 | 1326 | 13263.06 | | |
| 59 | 10000 | 4905 | 49047.40 | | |

| Mass | Resp Ratio | Resp Ratio (Required) | Resp Ratio (Flag) |
|---|---|---|---|
| 9 | | - | |
| 24 | | - | |
| 59 | | - | |

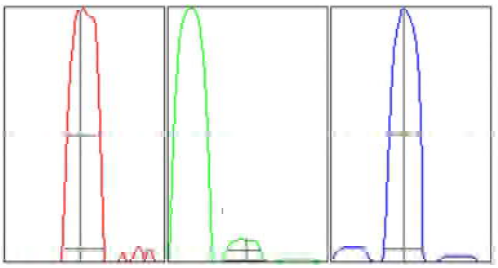
| Mass | RSD% | RSD% (Required) | RSD% (Flag) |
|---|---|---|---|
| 9 | 13.109 | 5.000 | Fail |
| 24 | 2.667 | 5.000 | |
| 59 | 1.513 | 5.000 | |

| Mass | Background | Background (Required) | Background (Flag) |
|---|---|---|---|
| 9 | 0.100 | | |
| 24 | 0.300 | | |
| 59 | 0.100 | | |

## Oxide/Doubly Charged Ratio

| | |
|---|---|
| Oxide | 156 / 140 3.009 % |
| Doubly Charged | 70 / 140 0.828 % |

## Resolution/Axis



| | |
|---|---|
| Integration Time [sec] | 0.1 |
| Acquisition Time [sec] | 22.24 |
| Y Axis | Linear |

| Mass | Peak Height | Axis | Axis (Required) | Axis (Flag) |
|---|---|---|---|---|
| 9 | 67.00 | 8.95 | 8.90 - 9.10 | |
| 24 | 1293.15 | 24.00 | 23.90 - 24.10 | |
| 59 | 4992.28 | 58.90 | 58.90 - 59.10 | |

| Mass | W-50% | W-5% | W-5% (Required) | W-5% (Flag) |
|---|---|---|---|---|
| 9 | 0.64 | 0.783 | | |
| 24 | 0.62 | 0.778 | | |

# Tune Check Report

| Mass | W-50% | W-5% | W-5% (Required) | W-5% (Flag) |
|---|---|---|---|---|
| 59 | 0.59 | 0.731 | | |

## Tune Parameters

### Plasma Parameters

| | | | | | |
|---|---|---|---|---|---|
| Plasma Mode | --- | Nebulizer Gas | 0.60 L/min | Dilution Gas | 0.40 L/min |
| RF Power | 1600 W | Option Gas | --- | Auxiliary Gas | 0.90 L/min |
| RF Matching | 1.80 V | Nebulizer Pump | 0.10 rps | Plasma Gas | 15.0 L/min |
| Sample Depth | 8.0 mm | S/C Temp | 2 °C | | |

### Lens Parameters

| | | | | | |
|---|---|---|---|---|---|
| Extract 1 | 0.0 V | Omega Lens | 10.4 V | Deflect | 0.9 V |
| Extract 2 | -200.0 V | Cell Entrance | -40 V | Plate Bias | -60 V |
| Omega Bias | -90 V | Cell Exit | -60 V | | |

### Cell Parameters

| | | | | | |
|---|---|---|---|---|---|
| Use Gas | Yes | 3rd Gas Flow | --- | Energy Discrimination | 3.0 V |
| He Flow | 3.8 mL/min | OctP Bias | -18.0 V | | |
| H2 Flow | 0.0 mL/min | OctP RF | 200 V | | |

### QP Parameters

| | | | | | |
|---|---|---|---|---|---|
| Mass Gain | 134 | Axis Gain | 1.0003 | QP Bias | -15.0 V |
| Mass Offset | 125 | Axis Offset | 0.07 | | |

## Hardware Settings

### Torch

| | | | |
|---|---|---|---|
| Torch H | 0.7 mm | Torch V | -0.7 mm |

### EM

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 4.7 mV | Analog HV | 3003 V | Pulse HV | 1644 V |

# HS23061096-E2300571 Perchlorate Final Report Level IV

ALS WO# HS23061096