

Data File : VU035924.D  
Acq On : 29 Nov 2019 15:46  
Operator : JC/SP  
Sample : K6056-06DL 20X  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFE13DL

Quant Time: Nov 30 03:24:54 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR112119WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Nov 30 03:20:00 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 222806   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 262765   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 93639    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 125521   | 4.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 86.20%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 119810   | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 95.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 201658   | 3.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 74.60%  |
| 20) 2-Butanone-d5              | 4.69   | 46    | 333918   | 49.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 99.14%  |
| 24) Chloroform-d               | 5.11   | 84    | 232352   | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 127124   | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.80%  |
| 32) Benzene-d6                 | 5.77   | 84    | 439783   | 4.39     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 87.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 153295   | 4.54     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 90.80%  |
| 41) Toluene-d8                 | 7.93   | 98    | 340036   | 3.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 73.60%  |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 51722    | 3.93     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 78.60%  |
| 46) 2-Hexanone-d5              | 8.68   | 63    | 250061   | 47.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 94.66%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 127804   | 4.49     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 89.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 106706   | 5.25     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 105.00% |

#### Target Compounds

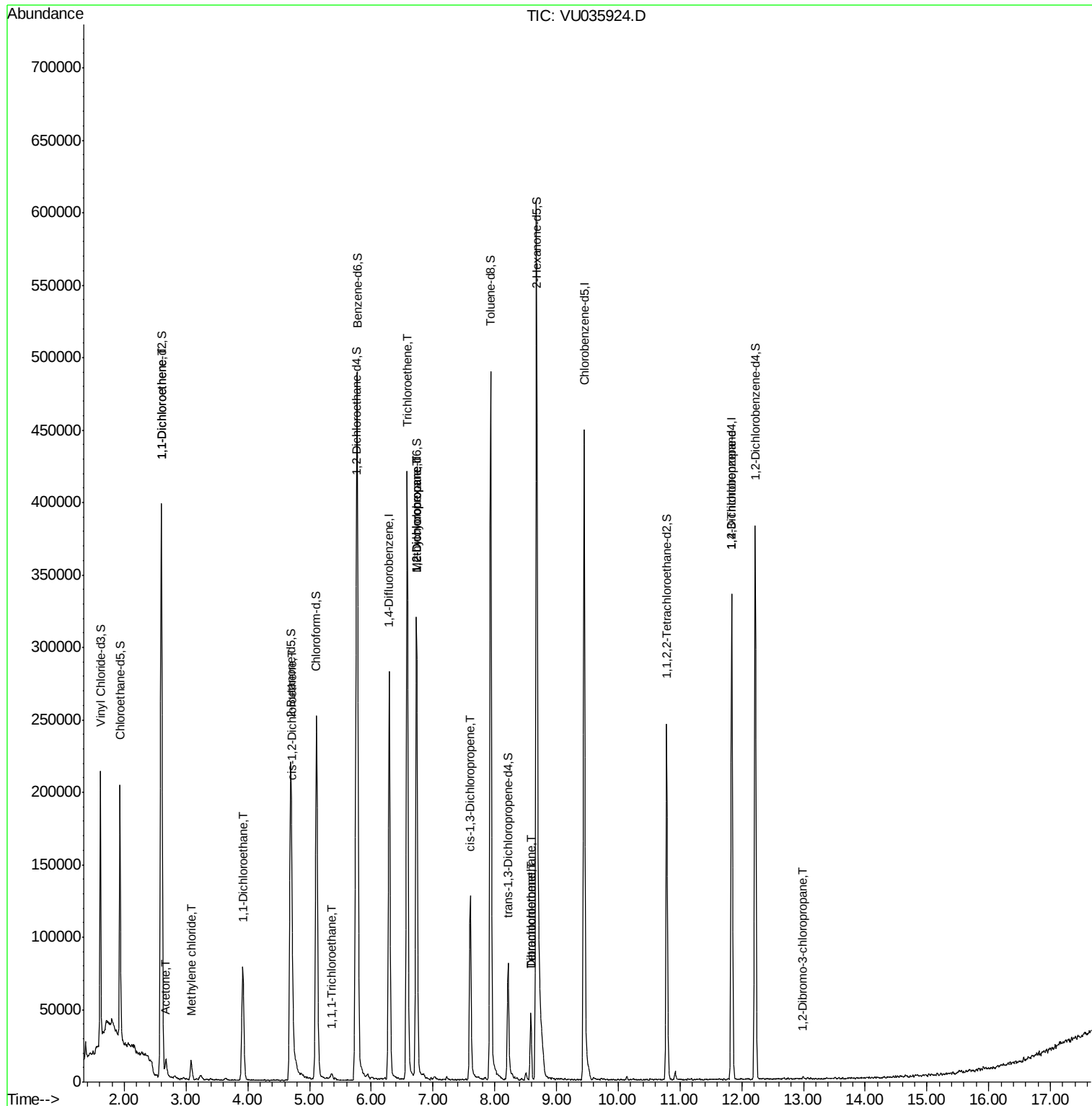
|                                |       |     |        |       | Qvalue    |
|--------------------------------|-------|-----|--------|-------|-----------|
| 12) 1,1-Dichloroethene         | 2.61  | 96  | 78985  | 3.407 | ug/L 88   |
| 13) Acetone                    | 2.67  | 43  | 14750  | 2.493 | ug/L 95   |
| 16) Methylene chloride         | 3.08  | 84  | 6297   | 0.225 | ug/L 98   |
| 19) 1,1-Dichloroethane         | 3.92  | 63  | 91637  | 1.787 | ug/L 97   |
| 22) cis-1,2-Dichloroethene     | 4.72  | 96  | 9512   | 0.374 | ug/L 99   |
| 29) 1,1,1-Trichloroethane      | 5.36  | 97  | 3086   | 0.073 | ug/L 89   |
| 34) Trichloroethene            | 6.58  | 95  | 146535 | 5.449 | ug/L 98   |
| 35) Methylcyclohexane          | 6.73  | 83  | 34638  | 0.878 | ug/L # 14 |
| 37) 1,2-Dichloropropane        | 6.73  | 63  | 16631  | 0.535 | ug/L # 90 |
| 39) cis-1,3-Dichloropropene    | 7.60  | 75  | 3205   | 0.080 | ug/L # 45 |
| 47) Tetrachloroethene          | 8.58  | 164 | 10287  | 0.503 | ug/L 93   |
| 49) Dibromochloromethane       | 8.58  | 129 | 10133  | 0.424 | ug/L # 12 |
| 59) 1,2,3-Trichloropropane     | 11.84 | 75  | 13659  | 0.675 | ug/L 97   |
| 66) 1,2-Dibromo-3-chloropropan | 13.00 | 75  | 345    | 0.130 | ug/L # 10 |

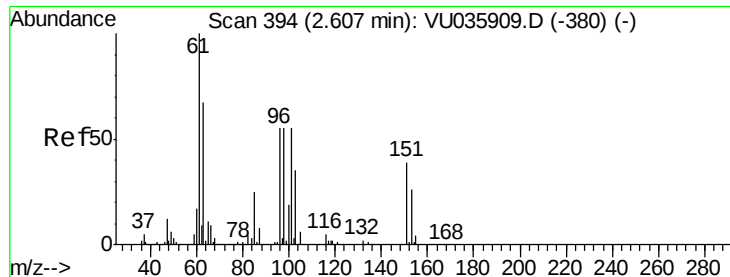
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Nov 30 03:20:00 2019  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 3.407 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035924.D

Acq: 29 Nov 2019 15:46

Instrument :

MSVOA\_U

ClientSampleId :

BFE13DL

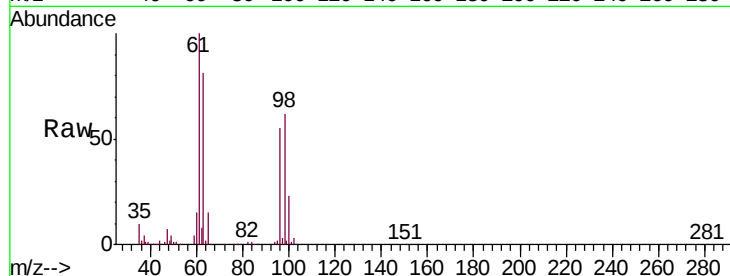
Tgt Ion: 96 Resp: 78985

Ion Ratio Lower Upper

96 100

61 180.8 139.3 258.7

63 147.2 93.7 174.1

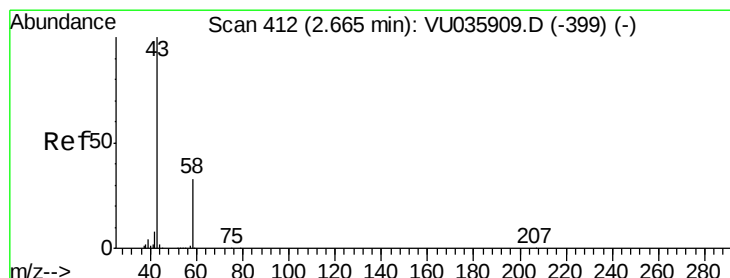
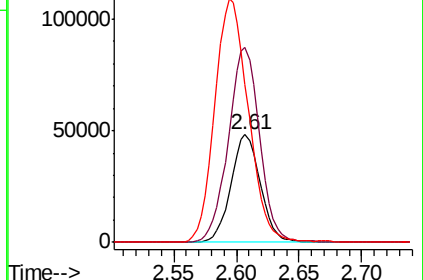
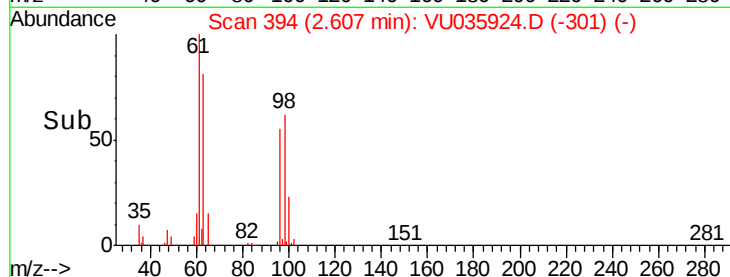


Abundance Ion 96.00 (95.70 to 96.70): VU035924.D (-301) (-)

Ion 61.05 (60.75 to 61.75): VU035924.D (-301) (-)

Ion 63.00 (62.70 to 63.70): VU035924.D (-301) (-)

Time-->



#13

Acetone

Concen: 2.493 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.01 min

Lab File: VU035924.D

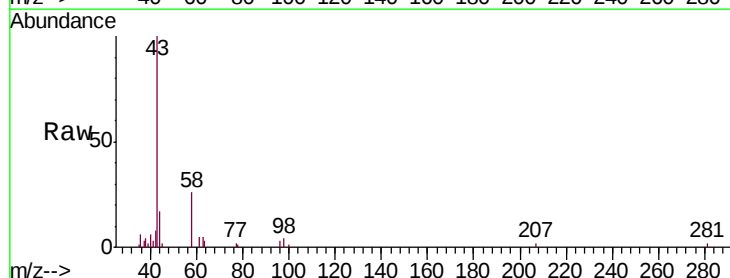
Acq: 29 Nov 2019 15:46

Tgt Ion: 43 Resp: 14750

Ion Ratio Lower Upper

43 100

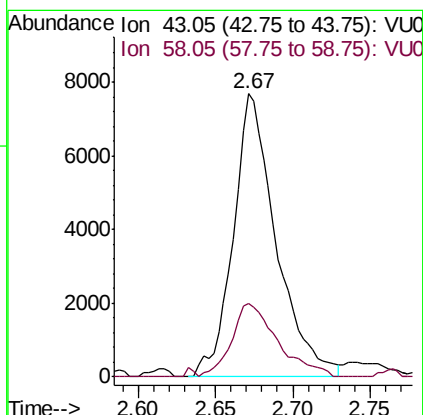
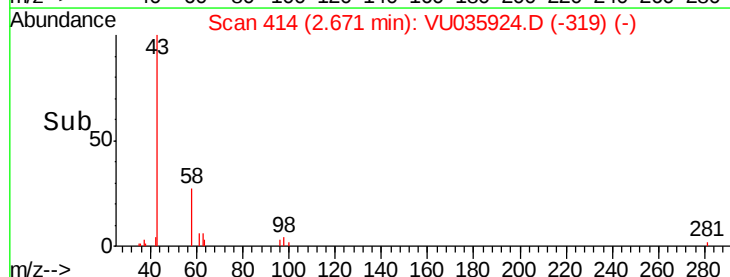
58 27.9 0.0 61.2

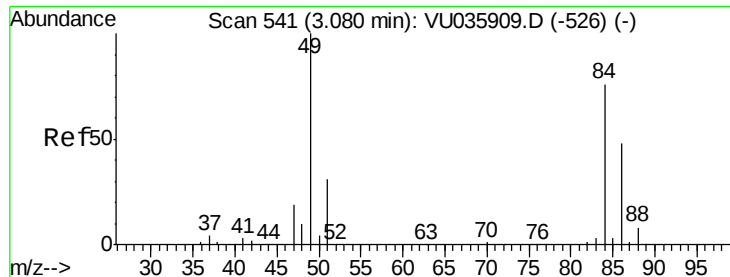


Abundance Ion 43.05 (42.75 to 43.75): VU035924.D (-319) (-)

Ion 58.05 (57.75 to 58.75): VU035924.D (-319) (-)

Time-->

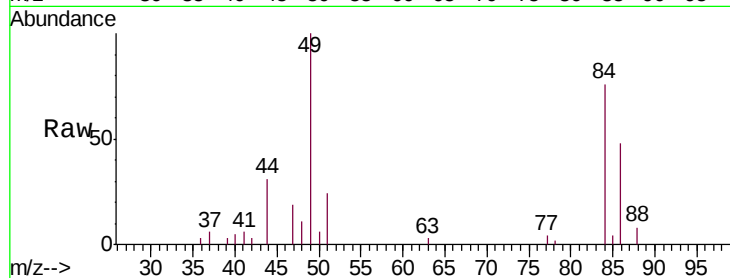




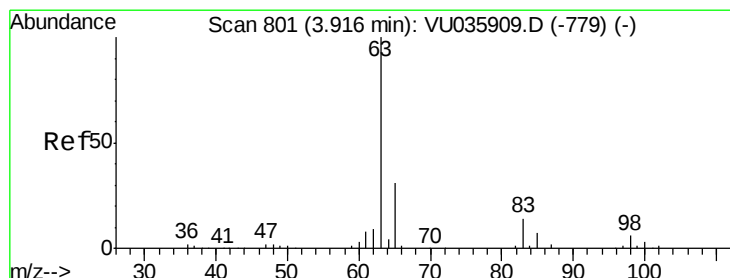
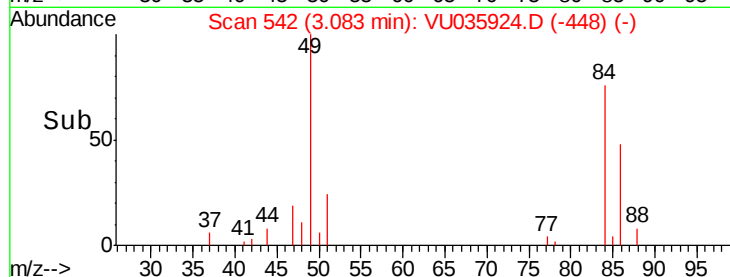
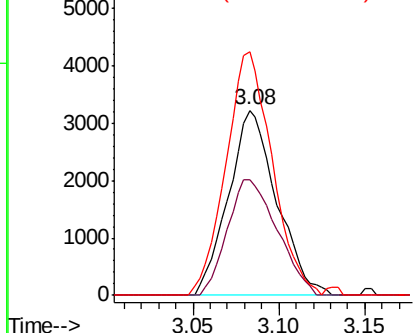
#16  
Methylene chloride  
Concen: 0.225 ug/L  
RT: 3.08 min Scan# 542  
Delta R.T. 0.00 min  
Lab File: VU035924.D  
Acq: 29 Nov 2019 15:46

Instrument :  
MSVOA\_U  
ClientSampled :  
BFE13DL

Tgt Ion: 84 Resp: 6297  
Ion Ratio Lower Upper  
84 100  
86 62.7 44.4 82.5  
49 131.4 94.0 174.6

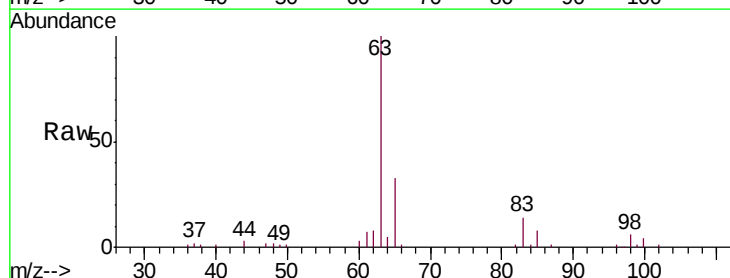


Abundance Ion 84.05 (83.75 to 84.75): VU0  
Ion 86.00 (85.70 to 86.70): VU0  
Ion 49.10 (48.80 to 49.80): VU0

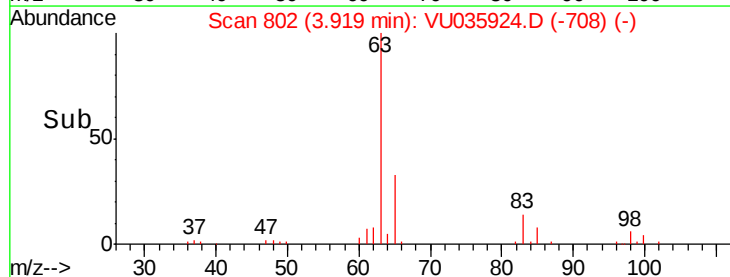
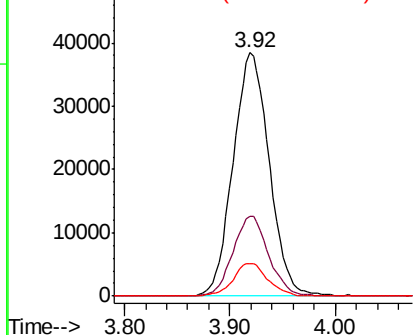


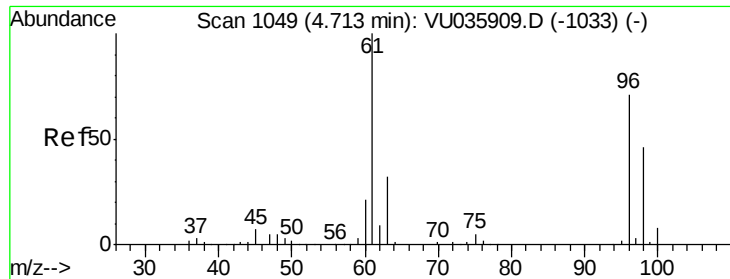
#19  
1,1-Dichloroethane  
Concen: 1.787 ug/L  
RT: 3.92 min Scan# 802  
Delta R.T. 0.00 min  
Lab File: VU035924.D  
Acq: 29 Nov 2019 15:46

Tgt Ion: 63 Resp: 91637  
Ion Ratio Lower Upper  
63 100  
65 32.9 21.8 40.4  
83 13.5 8.6 16.0



Abundance Ion 63.10 (62.80 to 63.80): VU0  
Ion 65.10 (64.80 to 65.80): VU0  
Ion 83.05 (82.75 to 83.75): VU0





#22

cis-1,2-Dichloroethene

Concen: 0.374 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.01 min

Lab File: VU035924.D

Acq: 29 Nov 2019 15:46

Instrument :

MSVOA\_U

ClientSampleId :

BFE13DL

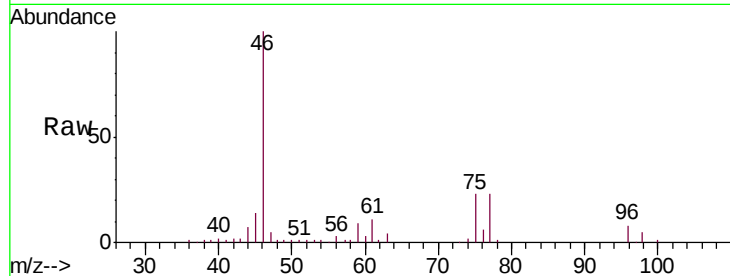
Tgt Ion: 96 Resp: 9512

Ion Ratio Lower Upper

96 100

61 139.0 98.1 182.1

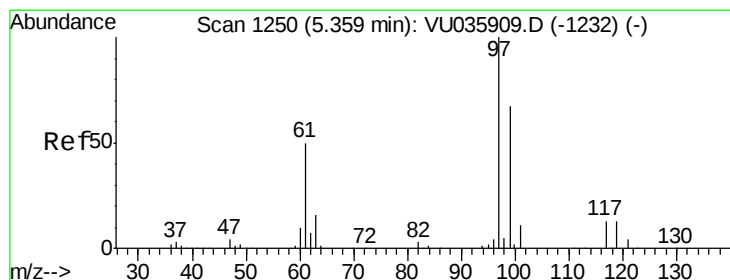
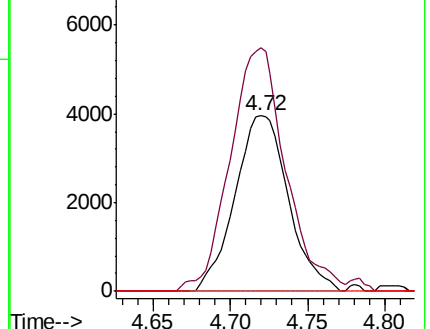
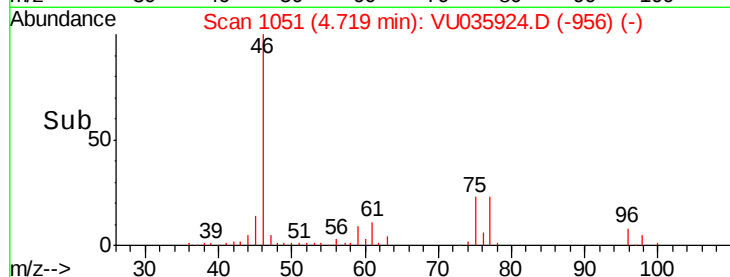
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU035924.D (-956) (-)

Ion 61.05 (60.75 to 61.75): VU035924.D (-956) (-)

Ion 68.15 (67.85 to 68.85): VU035924.D (-956) (-)



#29

1,1,1-Trichloroethane

Concen: 0.073 ug/L

RT: 5.36 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU035924.D

Acq: 29 Nov 2019 15:46

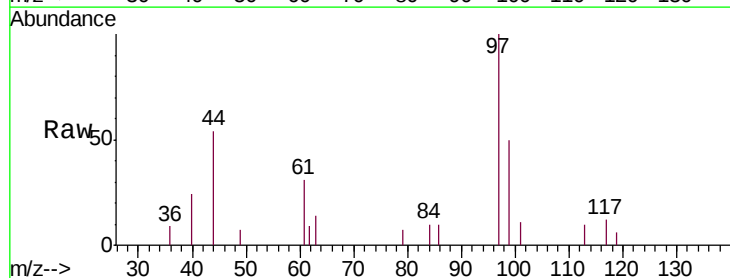
Tgt Ion: 97 Resp: 3086

Ion Ratio Lower Upper

97 100

99 57.6 51.9 77.9

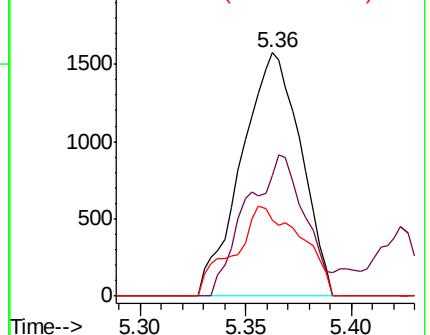
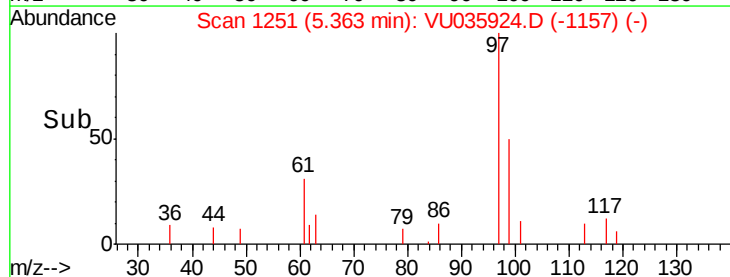
61 41.8 40.3 60.5

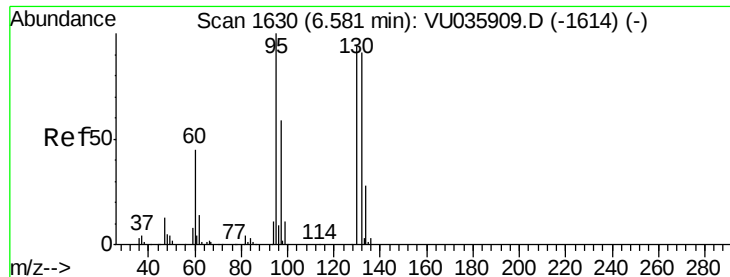


Abundance Ion 96.95 (96.65 to 97.65): VU035924.D (-1157) (-)

Ion 99.05 (98.75 to 99.75): VU035924.D (-1157) (-)

Ion 61.05 (60.75 to 61.75): VU035924.D (-1157) (-)





#34

Trichloroethene

Concen: 5.449 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU035924.D

Acq: 29 Nov 2019 15:46

Instrument :

MSVOA\_U

ClientSampleId :

BFE13DL

Tgt Ion: 95 Resp: 146535

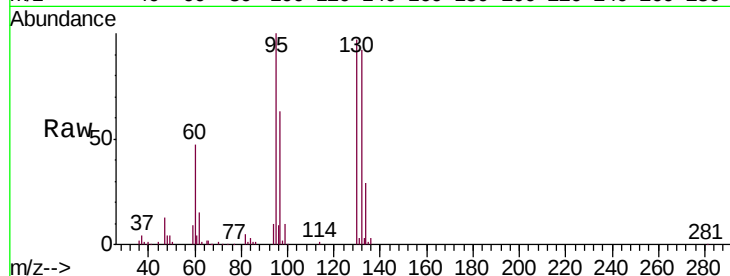
Ion Ratio Lower Upper

95 100

97 63.3 45.1 83.9

132 91.6 61.9 114.9

130 96.9 66.3 123.1

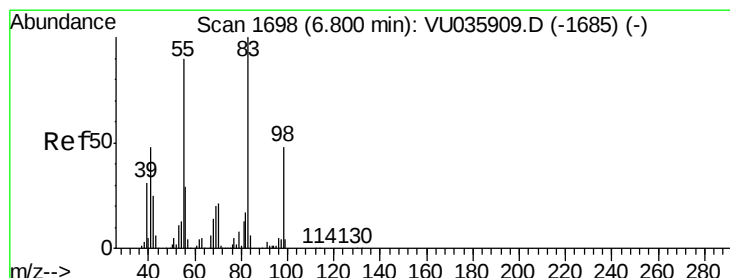
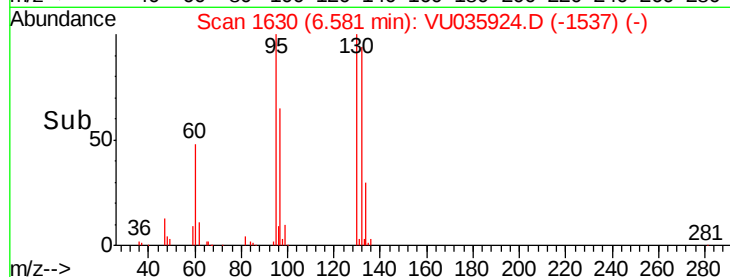
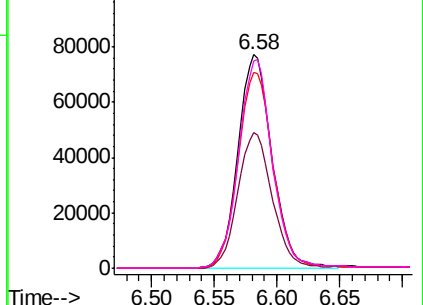


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.878 ug/L

RT: 6.73 min Scan# 1677

Delta R.T. -0.07 min

Lab File: VU035924.D

Acq: 29 Nov 2019 15:46

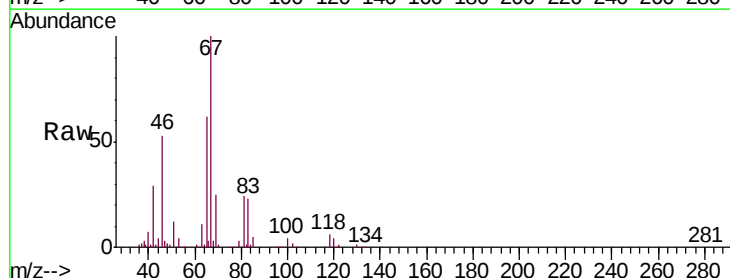
Tgt Ion: 83 Resp: 34638

Ion Ratio Lower Upper

83 100

55 0.3 72.7 109.1#

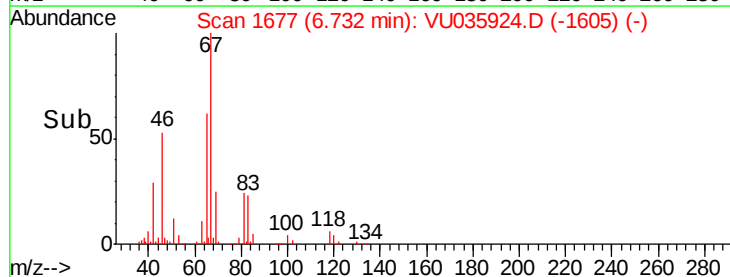
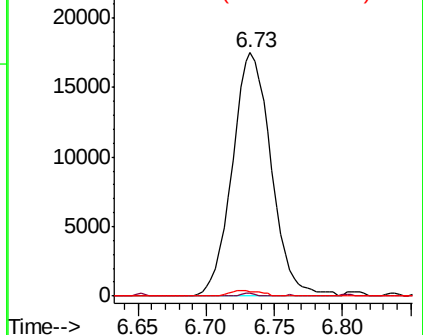
98 1.8 36.2 54.4#

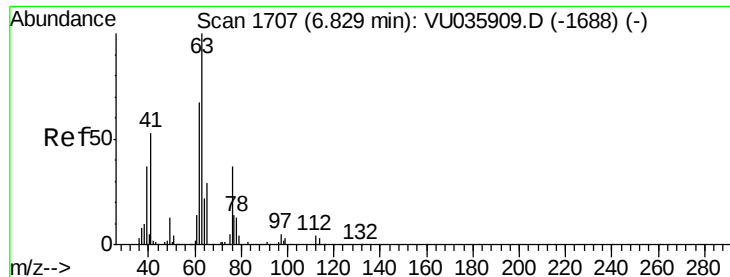


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.535 ug/L

RT: 6.73 min Scan# 1677

Delta R.T. -0.10 min

Lab File: VU035924.D

Acq: 29 Nov 2019 15:46

Instrument :

MSVOA\_U

ClientSampleId :

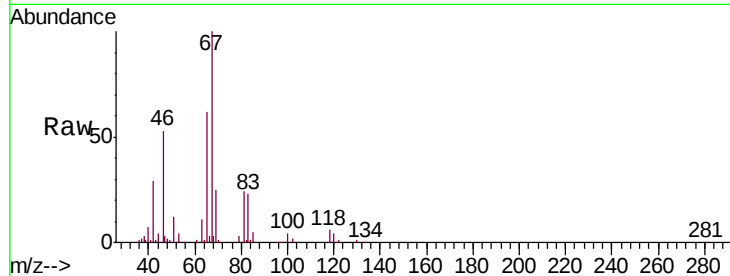
BFE13DL

Tgt Ion: 63 Resp: 16631

Ion Ratio Lower Upper

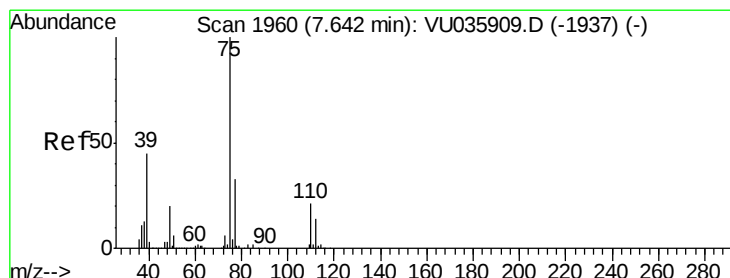
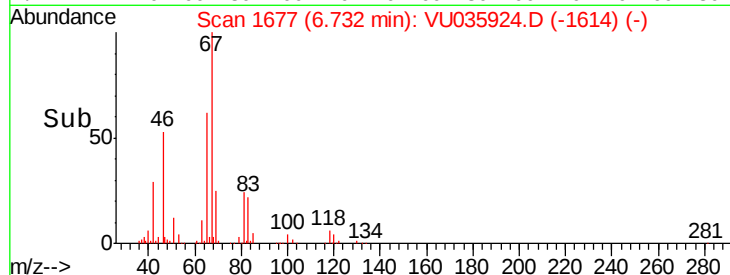
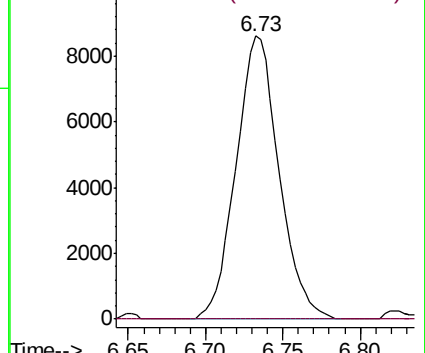
63 100

112 0.0 2.7 4.1#



Abundance Ion 63.10 (62.80 to 63.80): VU035909.D (-1688) (-)

Ion 112.10 (111.80 to 112.80): VU035909.D (-1688) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.080 ug/L

RT: 7.60 min Scan# 1947

Delta R.T. -0.04 min

Lab File: VU035924.D

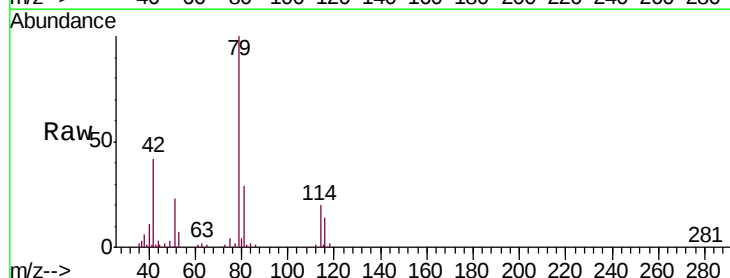
Acq: 29 Nov 2019 15:46

Tgt Ion: 75 Resp: 3205

Ion Ratio Lower Upper

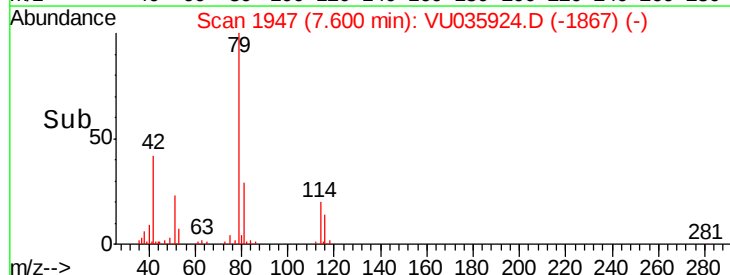
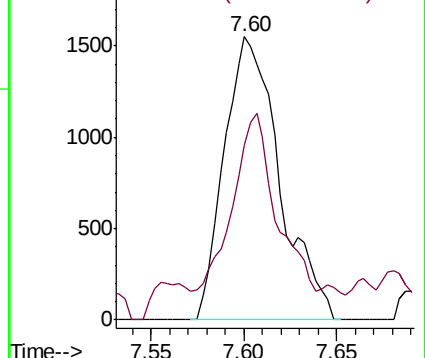
75 100

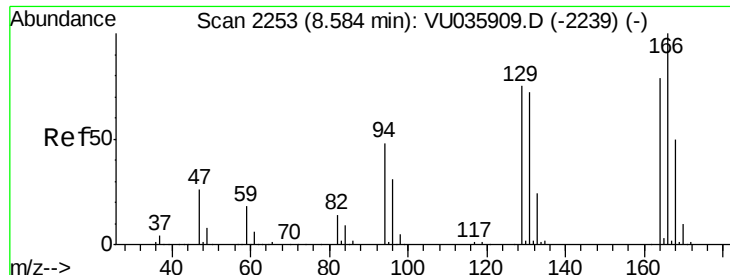
77 61.8 22.1 41.1#



Abundance Ion 75.05 (74.75 to 75.75): VU035909.D (-1937) (-)

Ion 77.05 (76.75 to 77.75): VU035909.D (-1937) (-)

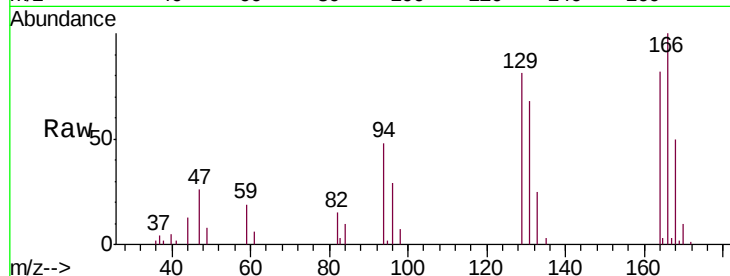




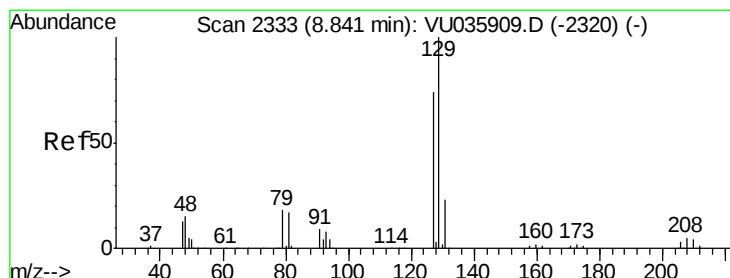
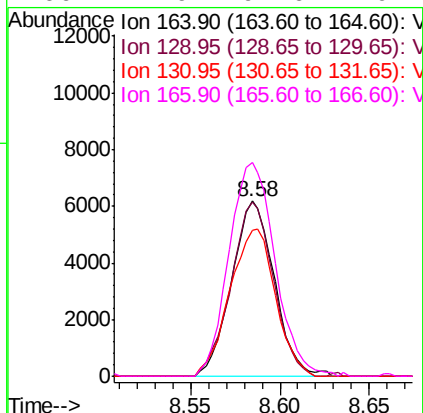
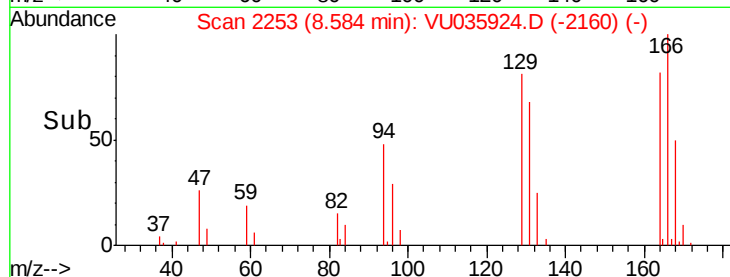
#47  
Tetrachloroethene  
Concen: 0.503 ug/L  
RT: 8.58 min Scan# 2253  
Delta R.T. 0.00 min  
Lab File: VU035924.D  
Acq: 29 Nov 2019 15:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFE13DL

Tgt Ion:164 Resp: 10287  
Ion Ratio Lower Upper  
164 100  
129 99.2 68.8 127.8  
131 83.3 67.3 124.9  
166 121.9 91.6 170.2

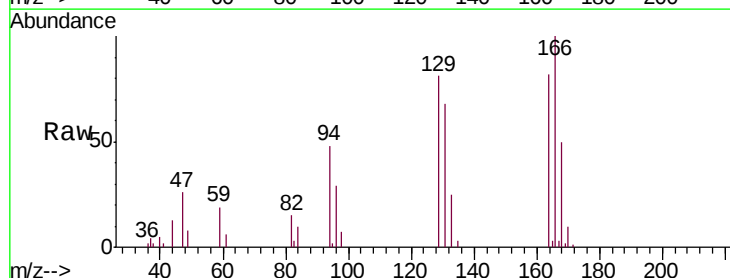


Abundance Ion 163.90 (163.60 to 164.60): V  
Ion 128.95 (128.65 to 129.65): V  
Ion 130.95 (130.65 to 131.65): V  
Ion 165.90 (165.60 to 166.60): V

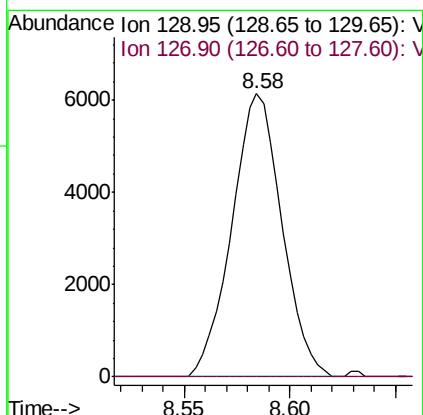
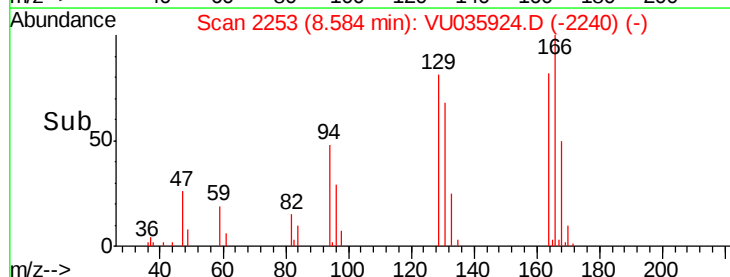


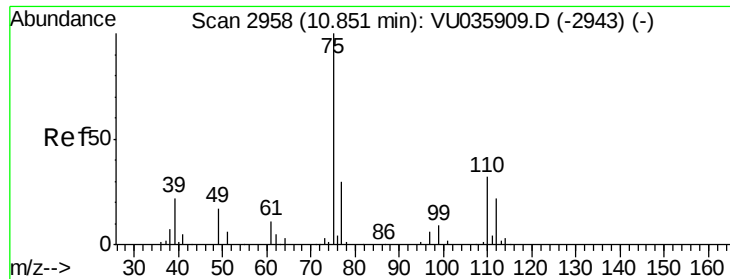
#49  
Dibromochloromethane  
Concen: 0.424 ug/L  
RT: 8.58 min Scan# 2253  
Delta R.T. -0.26 min  
Lab File: VU035924.D  
Acq: 29 Nov 2019 15:46

Tgt Ion:129 Resp: 10133  
Ion Ratio Lower Upper  
129 100  
127 0.0 53.1 98.5#



Abundance Ion 128.95 (128.65 to 129.65): V  
Ion 126.90 (126.60 to 127.60): V





#59

1,2,3-Trichloropropane

Concen: 0.675 ug/L

RT: 11.84 min Scan# 3266

Delta R.T. 0.99 min

Lab File: VU035924.D

Acq: 29 Nov 2019 15:46

Instrument :

MSVOA\_U

ClientSampleId :

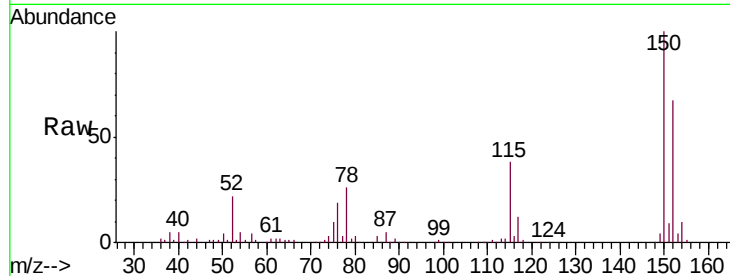
BFE13DL

Tgt Ion: 75 Resp: 13659

Ion Ratio Lower Upper

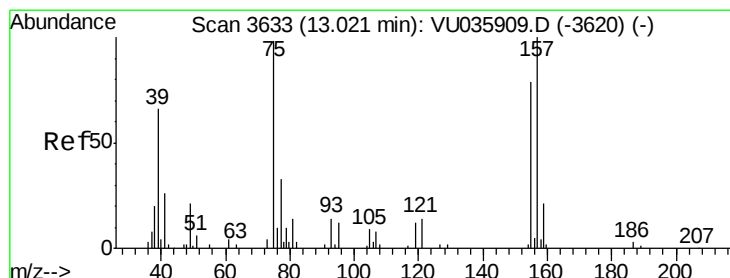
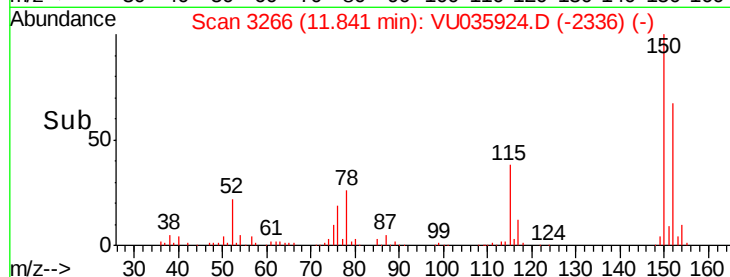
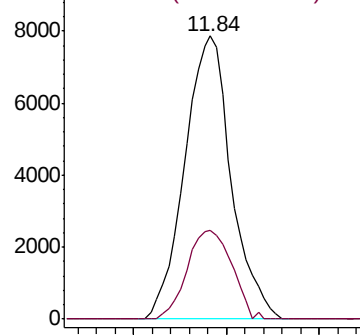
75 100

77 30.1 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#66

1,2-Dibromo-3-chloropropane

Concen: 0.130 ug/L

RT: 13.00 min Scan# 3625

Delta R.T. -0.03 min

Lab File: VU035924.D

Acq: 29 Nov 2019 15:46

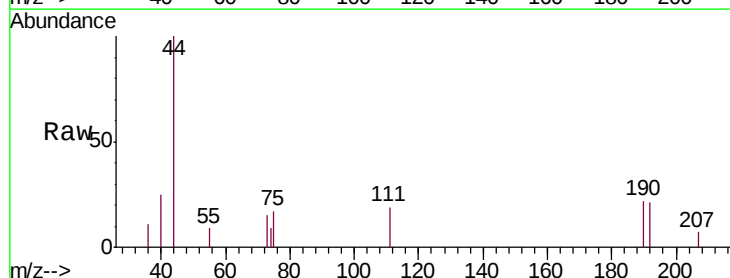
Tgt Ion: 75 Resp: 345

Ion Ratio Lower Upper

75 100

155 0.0 55.4 83.2#

157 0.0 69.4 104.2#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

