

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121020\  
 Data File : VV019540.D  
 Acq On : 11 Dec 2020 04:14  
 Operator : SY/MD  
 Sample : L4955-19  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG4J2

Quant Time: Dec 11 04:43:47 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121020WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 11 04:38:56 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.62  | 114  | 684677   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.86  | 117  | 638219   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.25 | 152  | 309195   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 200352   | 40.81    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 81.62% |
| 7) Chloroethane-d5             | 1.57    | 69    | 169866   | 43.87    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 87.74% |
| 11) 1,1-Dichloroethene-d2      | 2.11    | 63    | 311035   | 34.13    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 68.26% |
| 21) 2-Butanone-d5              | 3.89    | 46    | 250583   | 93.90    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 93.90% |
| 24) Chloroform-d               | 4.35    | 84    | 401609   | 45.39    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.78% |
| 26) 1,2-Dichloroethane-d4      | 5.04    | 65    | 281166   | 48.62    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.24% |
| 32) Benzene-d6                 | 5.05    | 84    | 807847   | 47.46    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.92% |
| 36) 1,2-Dichloropropane-d6     | 6.07    | 67    | 258587   | 48.50    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 97.00% |
| 41) Toluene-d8                 | 7.32    | 98    | 728290   | 47.52    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.04% |
| 43) trans-1,3-Dichloropropene- | 7.62    | 79    | 134826   | 44.45    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 88.90% |
| 47) 2-Hexanone-d5              | 8.09    | 63    | 194299   | 92.85    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 92.85% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.22   | 84    | 337424   | 46.79    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.58% |
| 64) 1,2-Dichlorobenzene-d4     | 11.63   | 152   | 270564   | 46.81    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.62% |

## Target Compounds

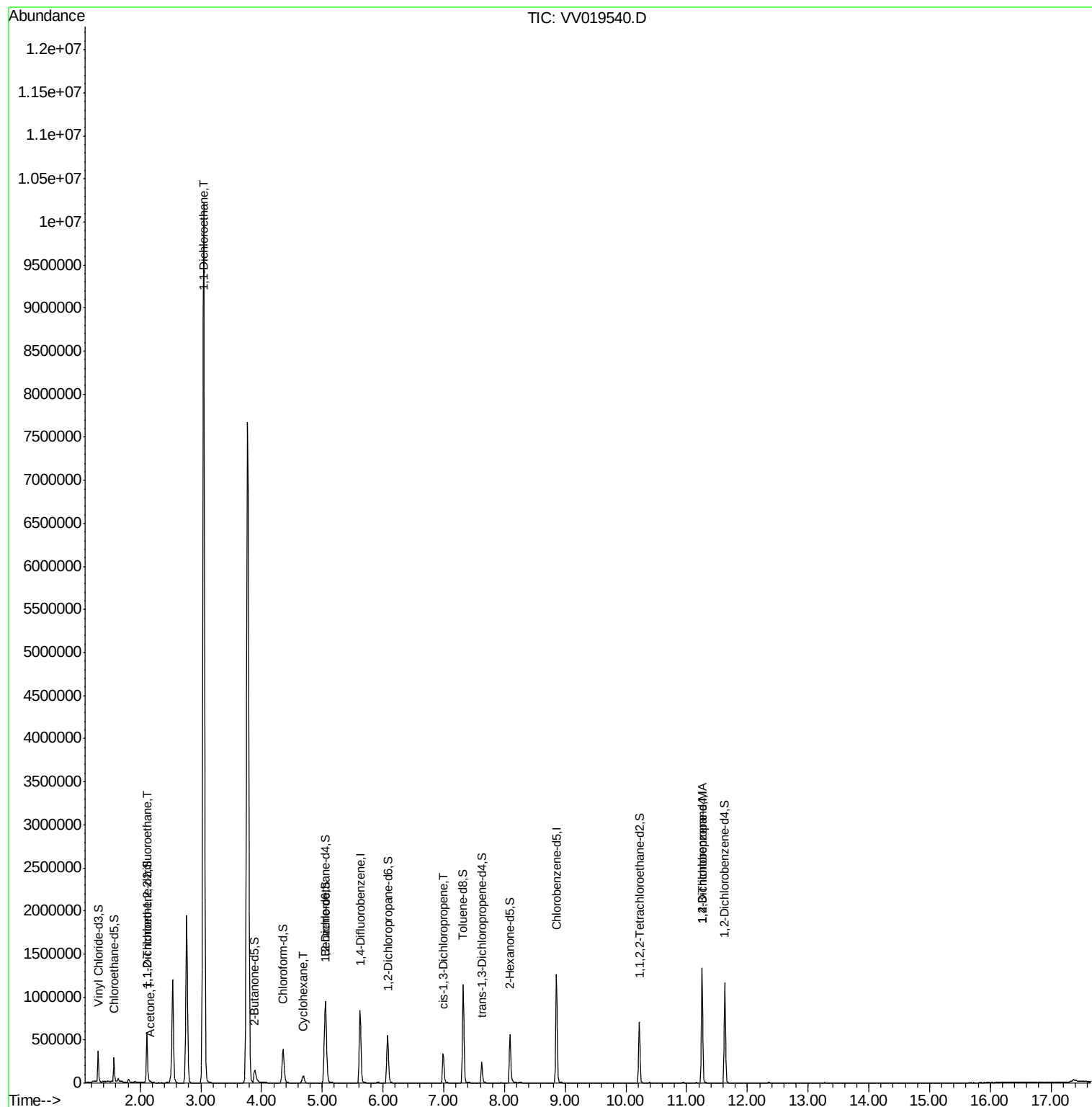
|                                |       |     |       |              | Ovalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.11  | 101 | 3096  | 0.779 ug/L # | 24     |
| 13) Acetone                    | 2.18  | 43  | 10404 | 4.576 ug/L   | 96     |
| 19) 1,1-Dichloroethane         | 3.05  | 63  | 17224 | 1.987 ug/L # | 1      |
| 29) Cyclohexane                | 4.68  | 56  | 45799 | 5.855 ug/L   | 98     |
| 39) cis-1,3-Dichloropropene    | 6.99  | 75  | 8550  | 1.057 ug/L # | 70     |
| 59) 1,2,3-Trichloropropane     | 11.25 | 75  | 40634 | 6.707 ug/L   | 89     |

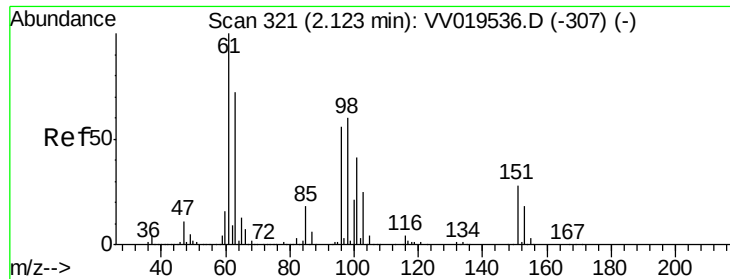
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L4955-19  
Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BG4J2

Quant Time: Dec 11 04:43:47 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121020WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Dec 11 04:38:56 2020  
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.779 ug/L

RT: 2.11 min Scan# 318

Delta R.T. -0.01 min

Lab File: VV019540.D

Acq: 11 Dec 2020 04:14

Instrument :

MSVOA\_V

ClientSampleId :

BG4J2

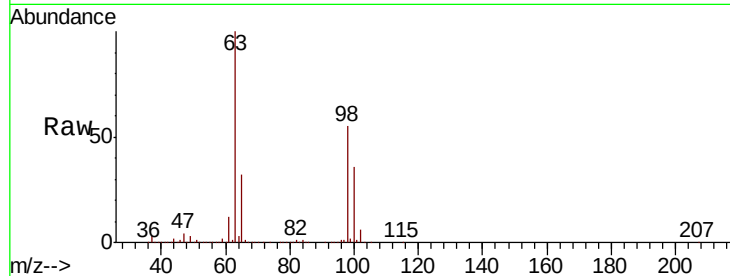
Tot Ion:101 Resp: 3096

Ion Ratio Lower Upper

101 100

85 4.3 35.0 52.4#

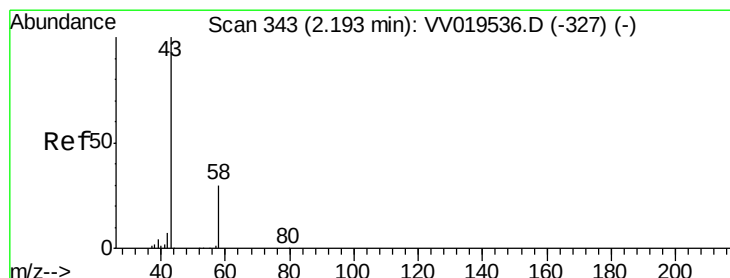
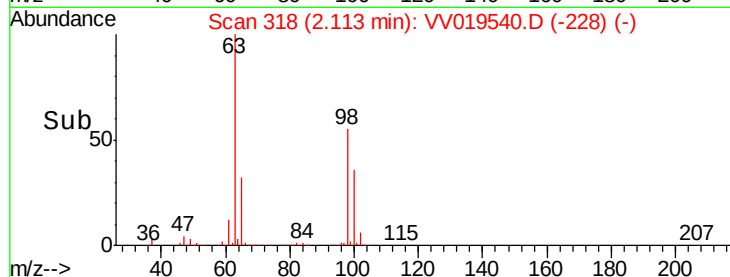
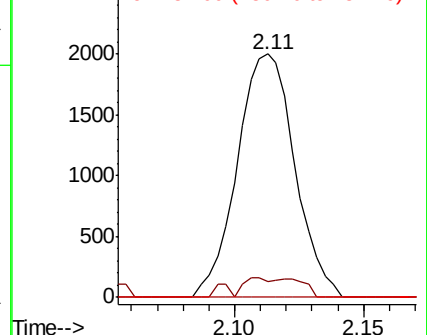
151 0.0 55.8 83.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 4.576 ug/L

RT: 2.18 min Scan# 338

Delta R.T. -0.02 min

Lab File: VV019540.D

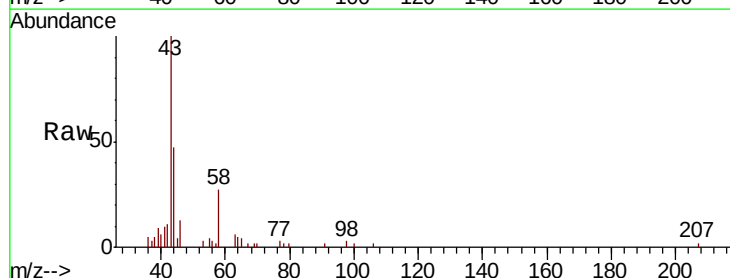
Acq: 11 Dec 2020 04:14

Tgt Ion: 43 Resp: 10404

Ion Ratio Lower Upper

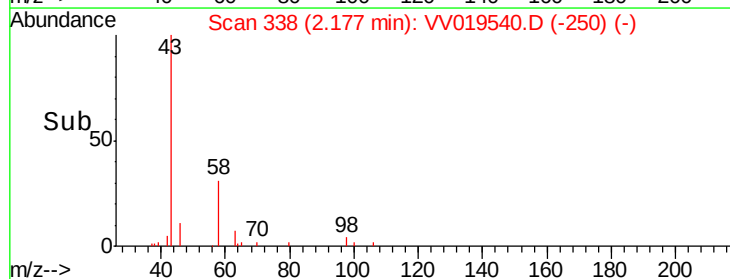
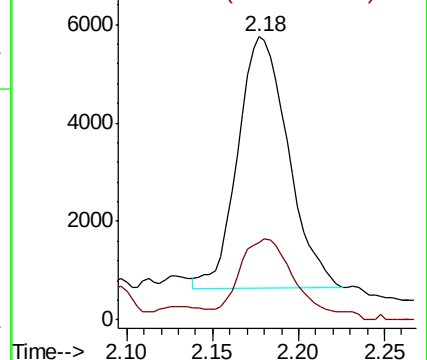
43 100

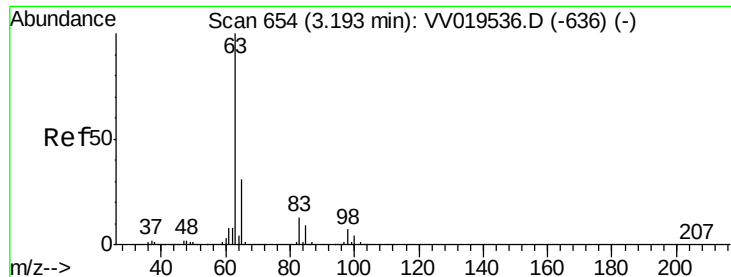
58 28.7 0.0 61.6



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

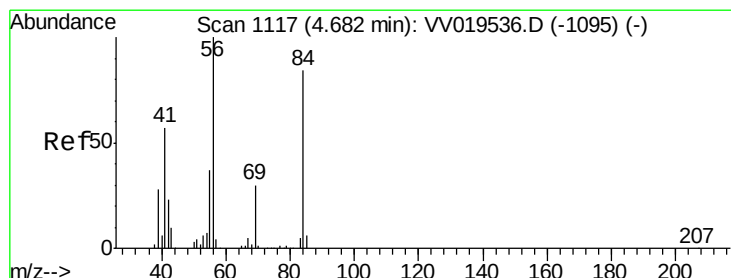
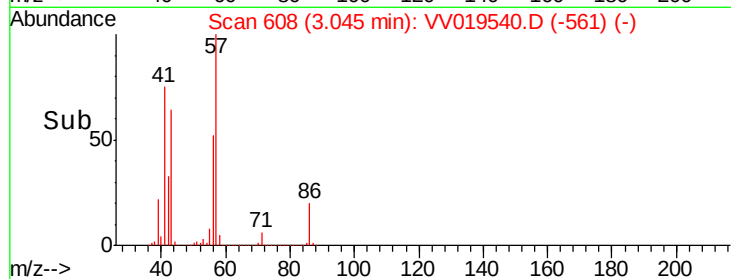
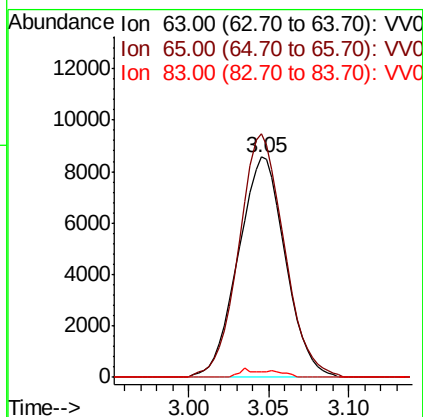
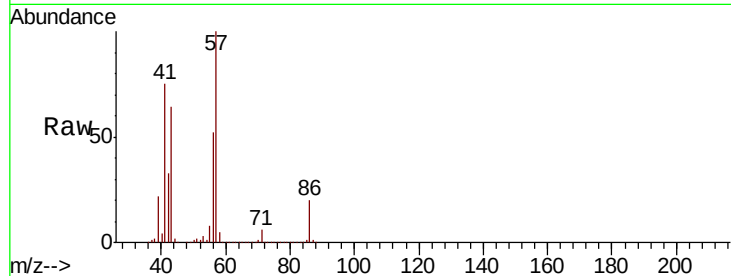




#19  
 1,1-Dichloroethane  
 Concen: 1.987 ug/L  
 RT: 3.05 min Scan# 608  
 Delta R.T. -0.15 min  
 Lab File: VV019540.D  
 Acq: 11 Dec 2020 04:14

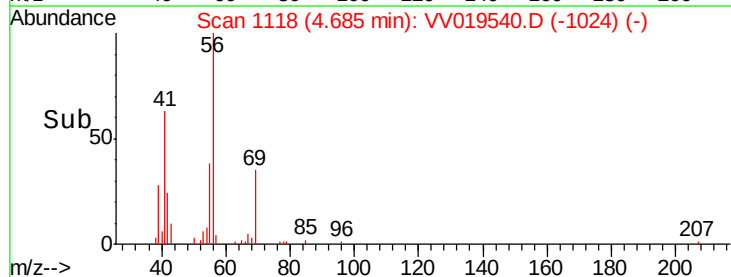
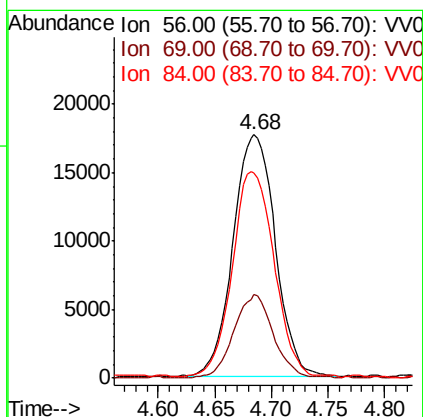
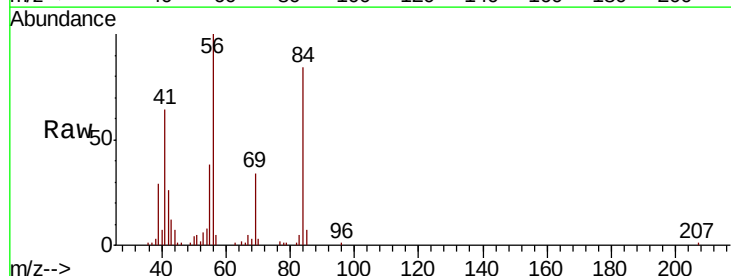
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG4J2

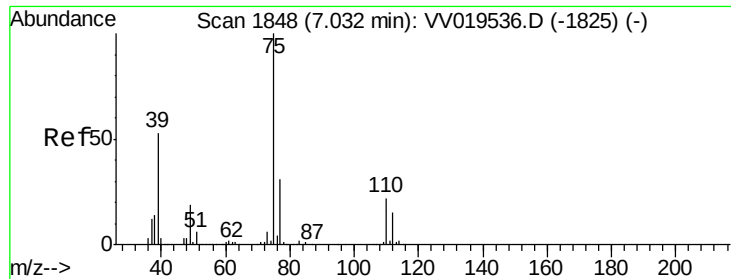
Tot Ion: 63 Resp: 17224  
 Ion Ratio Lower Upper  
 63 100  
 65 110.6 22.4 41.6#  
 83 2.3 9.6 17.8#



#29  
 Cyclohexane  
 Concen: 5.855 ug/L  
 RT: 4.68 min Scan# 1118  
 Delta R.T. 0.00 min  
 Lab File: VV019540.D  
 Acq: 11 Dec 2020 04:14

Tgt Ion: 56 Resp: 45799  
 Ion Ratio Lower Upper  
 56 100  
 69 32.1 24.6 37.0  
 84 83.7 68.2 102.4



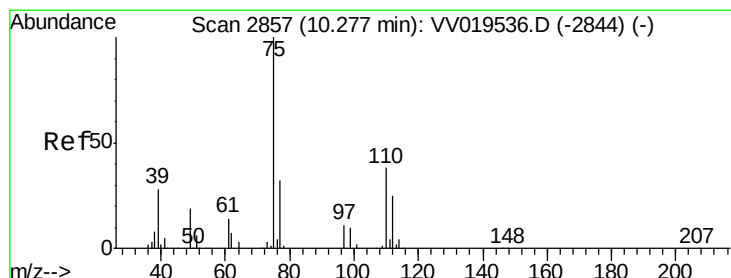
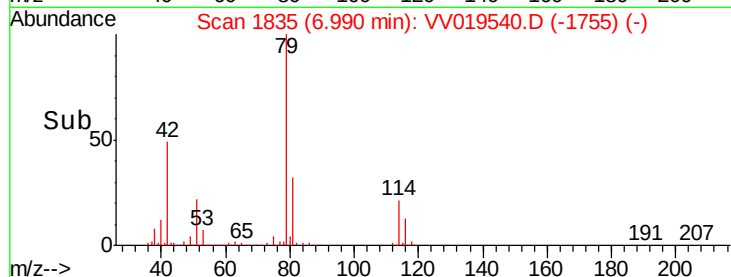
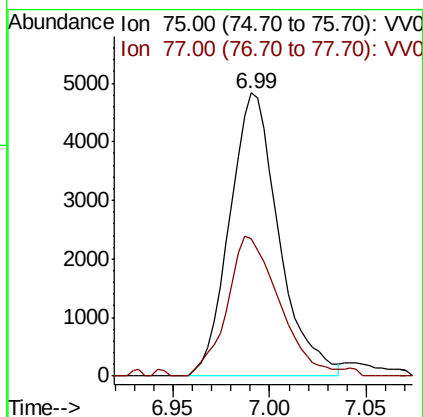
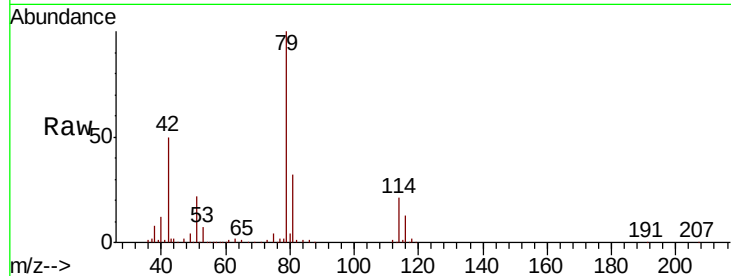


#39

cis-1,3-Dichloropropene  
 Concen: 1.057 ug/L  
 RT: 6.99 min Scan# 1835  
 Delta R.T. -0.04 min  
 Lab File: VV019540.D  
 Acq: 11 Dec 2020 04:14

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 BG4J2

Tot Ion: 75 Resp: 8550  
 Ion Ratio Lower Upper  
 75 100  
 77 48.5 22.4 41.6#



#59

1,2,3-Trichloropropane  
 Concen: 6.707 ug/L  
 RT: 11.25 min Scan# 3160  
 Delta R.T. 0.97 min  
 Lab File: VV019540.D  
 Acq: 11 Dec 2020 04:14

Tgt Ion: 75 Resp: 40634  
 Ion Ratio Lower Upper  
 75 100  
 77 38.6 25.8 38.8

