

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW012221\  
 Data File : VW020135.D  
 Acq On : 22 Jan 2021 14:54  
 Operator : SY/MD  
 Sample : M1181-15DL 50X  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 F1E34DL

Quant Time: Jan 23 00:15:24 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SOMVLM012121WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jan 23 00:14:09 2021  
 Response via : Initial Calibration

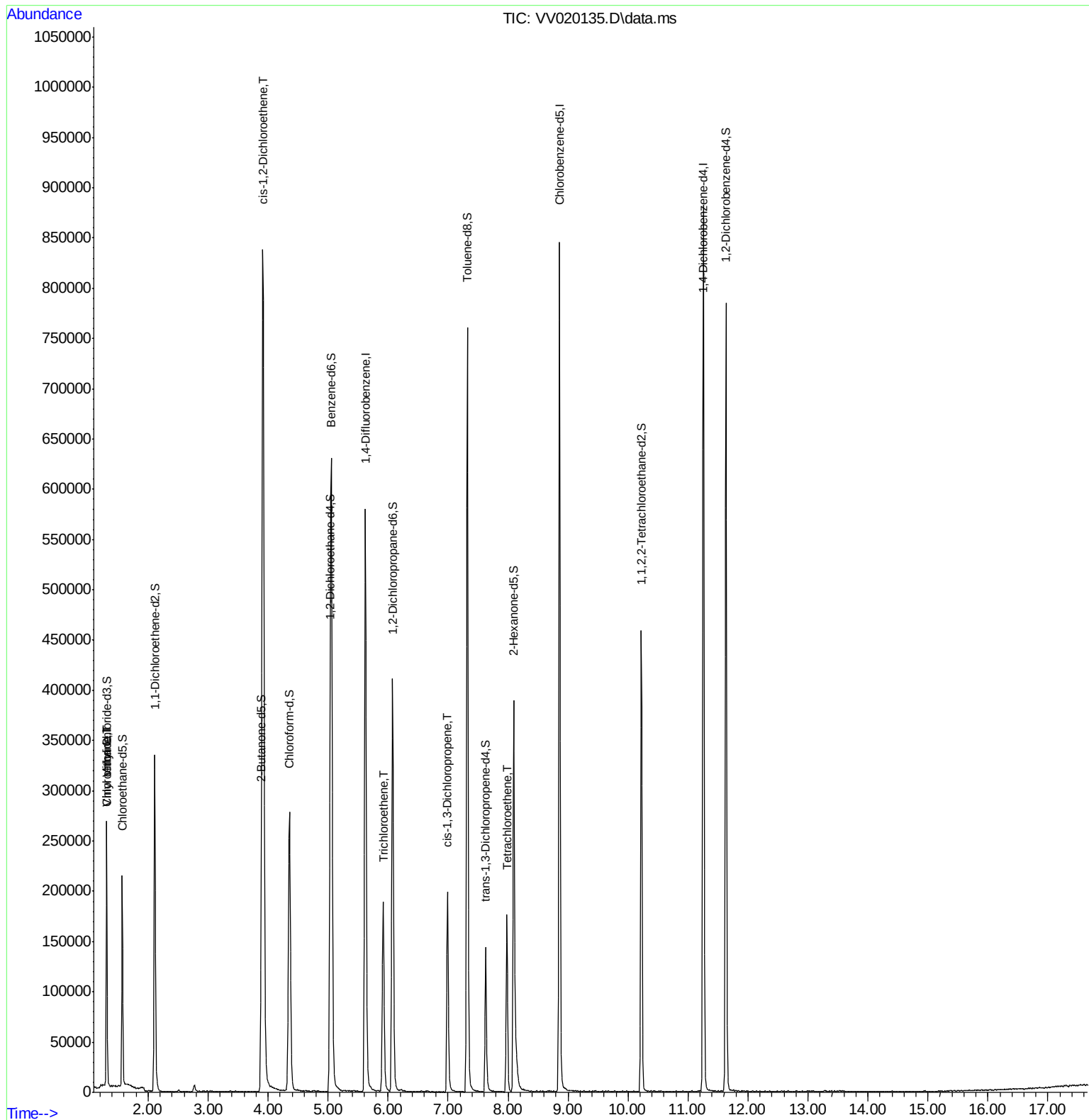
| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| -----                         |                |      |            |         |       |          |
| Internal Standards            |                |      |            |         |       |          |
| 1) 1,4-Difluorobenzene        | 5.621          | 114  | 473059     | 50.00   | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          | 8.858          | 117  | 423147     | 50.00   | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4    | 11.257         | 152  | 212195     | 50.00   | ug/L  | 0.00     |
|                               |                |      |            |         |       |          |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 4) Vinyl Chloride-d3          | 1.309          | 65   | 141582     | 40.35   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 80.70%  |       |          |
| 7) Chloroethane-d5            | 1.569          | 69   | 125300     | 42.66   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 85.32%  |       |          |
| 11) 1,1-Dichloroethene-d2     | 2.110          | 63   | 177085     | 25.27   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 50.54%# |       |          |
| 21) 2-Butanone-d5             | 3.888          | 46   | 200460     | 83.31   | ug/L  | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 83.31%  |       |          |
| 24) Chloroform-d              | 4.357          | 84   | 276381     | 42.05   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 84.10%  |       |          |
| 26) 1,2-Dichloroethane-d4     | 5.035          | 65   | 192489     | 42.26   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 84.52%  |       |          |
| 32) Benzene-d6                | 5.055          | 84   | 503161     | 43.18   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 86.36%  |       |          |
| 36) 1,2-Dichloropropane-d6    | 6.074          | 67   | 189470     | 51.50   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 103.00% |       |          |
| 41) Toluene-d8                | 7.322          | 98   | 495469     | 45.70   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 91.40%  |       |          |
| 43) trans-1,3-Dichloroprop... | 7.627          | 79   | 81229      | 45.12   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 90.24%  |       |          |
| 47) 2-Hexanone-d5             | 8.093          | 63   | 123759     | 80.93   | ug/L  | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 80.93%  |       |          |
| 57) 1,1,2,2-Tetrachloroeth... | 10.222         | 84   | 201415     | 39.99   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 79.98%  |       |          |
| 64) 1,2-Dichlorobenzene-d4    | 11.633         | 152  | 181661     | 45.56   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 91.12%  |       |          |
|                               |                |      |            |         |       |          |
| Target Compounds              |                |      |            |         |       |          |
| 5) Vinyl chloride             | 1.312          | 62   | 23239      | 5.67    | ug/L  | 86       |
| 8) Chloroethane               | 1.312          | 64   | 9438       | 3.59    | ug/L  | 97       |
| 20) cis-1,2-Dichloroethene    | 3.913          | 96   | 413830     | 120.91  | ug/L  | 97       |
| 34) Trichloroethene           | 5.920          | 95   | 54506      | 15.16   | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 6.990          | 75   | 5360       | 1.04    | ug/L  | 85       |
| 46) Tetrachloroethene         | 7.981          | 164  | 39122      | 14.58   | ug/L  | 95       |
| -----                         |                |      |            |         |       |          |

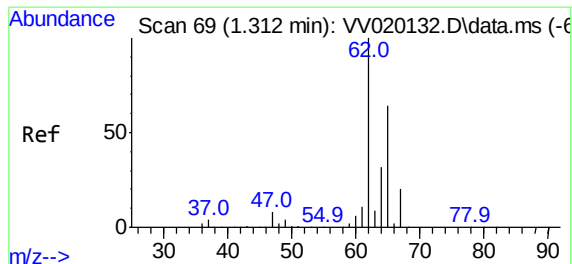
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : M1181-15DL 50X  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
F1E34DL

Quant Time: Jan 23 00:15:24 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SOMVLM012121WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Jan 23 00:14:09 2021  
Response via : Initial Calibration



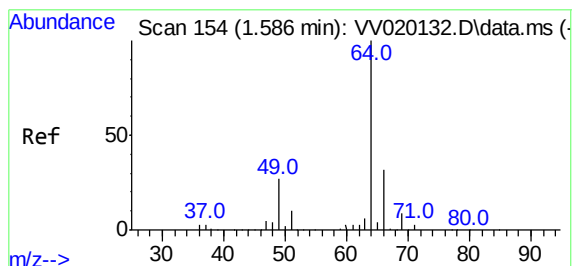
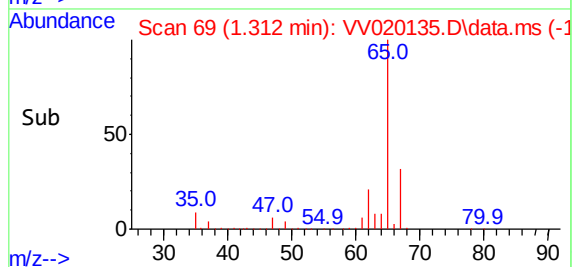
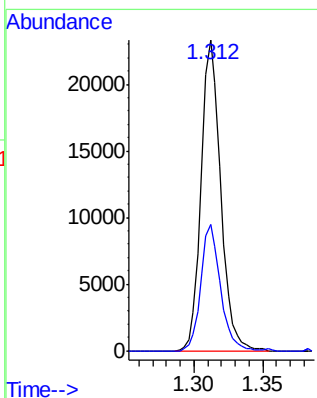
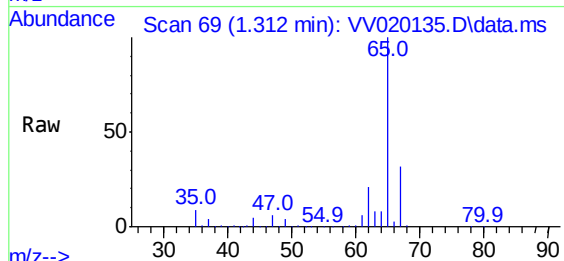


#5  
 Vinyl chloride  
 Concen: 5.67 ug/L  
 RT: 1.312 min Scan# 69  
 Delta R.T. -0.000 min  
 Lab File: VV020135.D  
 Acq: 22 Jan 2021 14:54

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 F1E34DL

Tgt Ion: 62 Resp: 23239  

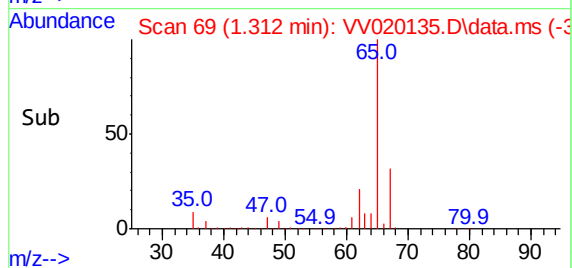
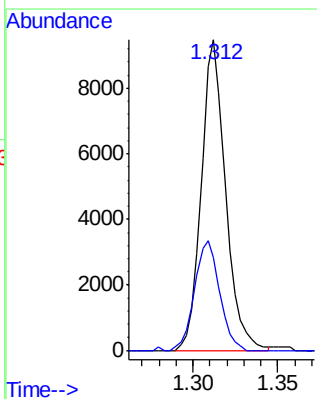
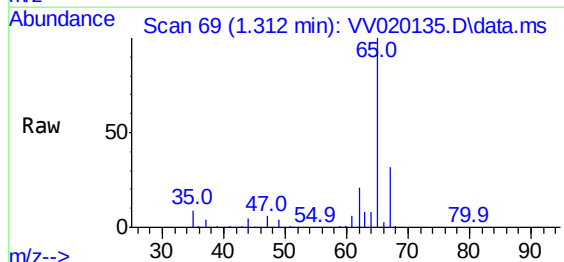
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 62  | 100   |       |       |
| 64  | 40.6  | 23.0  | 42.6  |

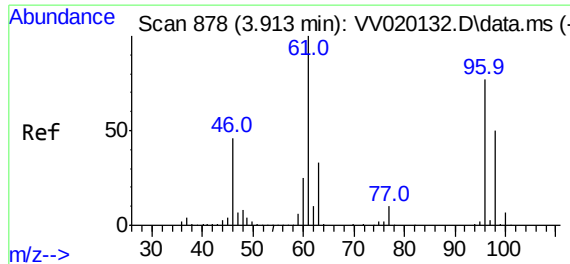


#8  
 Chloroethane  
 Concen: 3.59 ug/L  
 RT: 1.312 min Scan# 69  
 Delta R.T. -0.273 min  
 Lab File: VV020135.D  
 Acq: 22 Jan 2021 14:54

Tgt Ion: 64 Resp: 9438  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 64  | 100   |       |       |
| 66  | 30.1  | 22.4  | 41.6  |

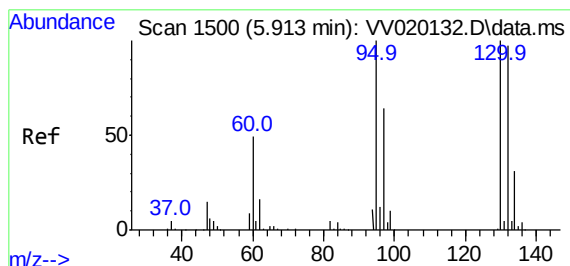
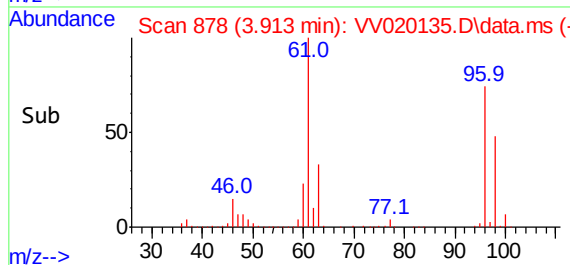
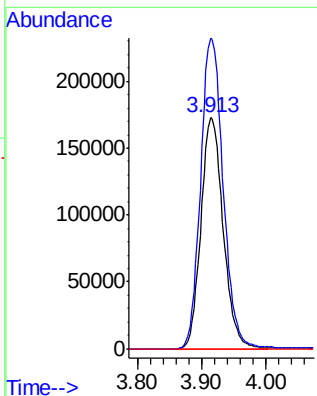
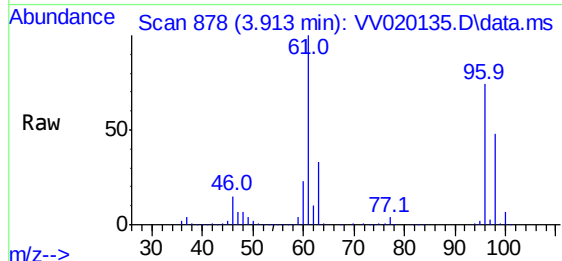




#20  
cis-1,2-Dichloroethene  
Concen: 120.91 ug/L  
RT: 3.913 min Scan# 878  
Delta R.T. -0.000 min  
Lab File: VV020135.D  
Acq: 22 Jan 2021 14:54

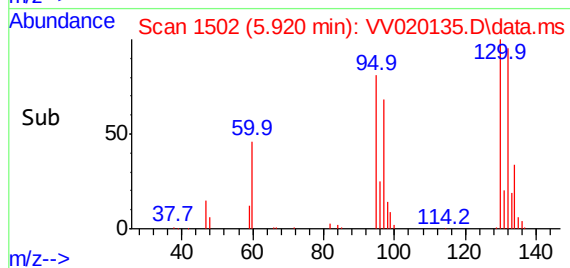
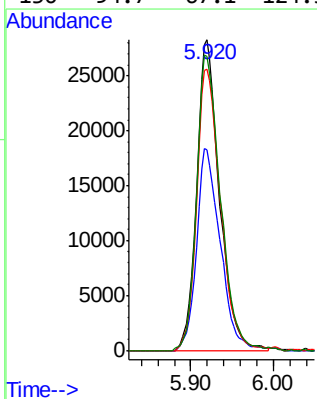
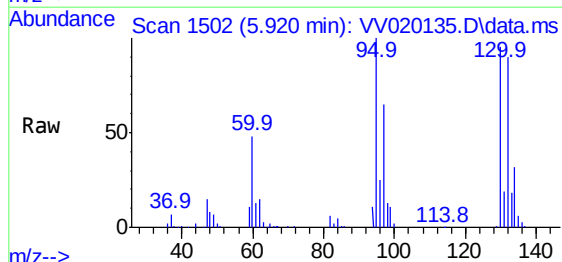
Instrument :  
MSVOA\_V  
ClientSampleId :  
F1E34DL

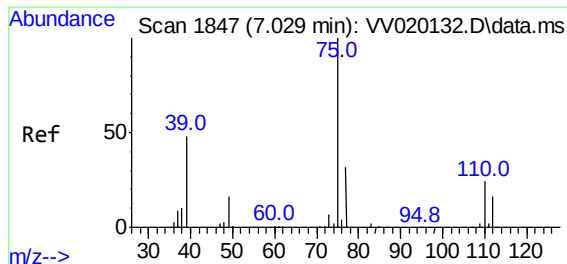
Tgt Ion: 96 Resp: 413830  
Ion Ratio Lower Upper  
96 100  
61 134.4 96.9 179.9  
68 0.0 0.0 0.0



#34  
Trichloroethene  
Concen: 15.16 ug/L  
RT: 5.920 min Scan# 1502  
Delta R.T. 0.006 min  
Lab File: VV020135.D  
Acq: 22 Jan 2021 14:54

Tgt Ion: 95 Resp: 54506  
Ion Ratio Lower Upper  
95 100  
97 64.8 44.5 82.7  
132 90.4 63.4 117.8  
130 94.7 67.1 124.5

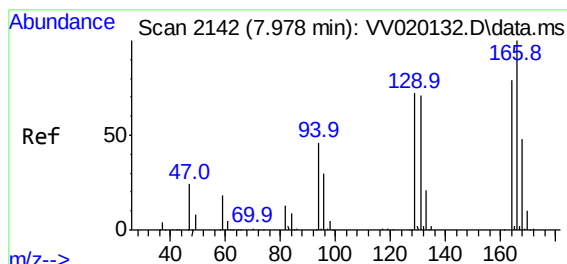
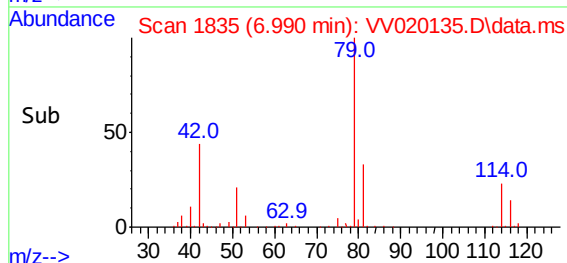
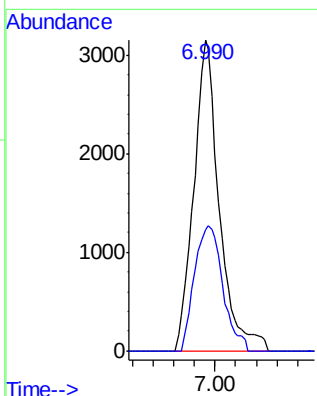
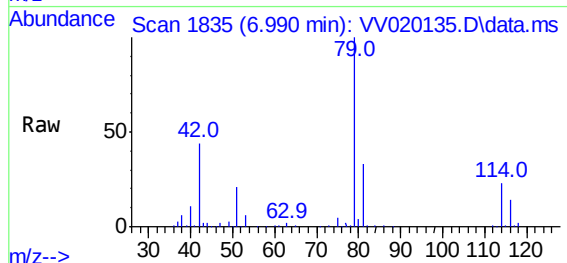




#39  
cis-1,3-Dichloropropene  
Concen: 1.04 ug/L  
RT: 6.990 min Scan# 1835  
Delta R.T. -0.039 min  
Lab File: VV020135.D  
Acq: 22 Jan 2021 14:54

Instrument :  
MSVOA\_V  
ClientSampleId :  
F1E34DL

Tgt Ion: 75 Resp: 5360  
Ion Ratio Lower Upper  
75 100  
77 39.2 21.8 40.6



#46  
Tetrachloroethene  
Concen: 14.58 ug/L  
RT: 7.981 min Scan# 2143  
Delta R.T. 0.003 min  
Lab File: VV020135.D  
Acq: 22 Jan 2021 14:54

Tgt Ion: 164 Resp: 39122  
Ion Ratio Lower Upper  
164 100  
129 93.1 70.6 131.0  
131 90.0 66.8 124.0  
166 129.1 88.2 163.8

