

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN123020\  
 Data File : VN065312.D  
 Acq On : 30 Dec 2020 11:49  
 Operator : JC/MD  
 Sample : VN1230MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 31 03:00:03 2020  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122220W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 22 15:42:18 2020  
 Response via : Initial Calibration

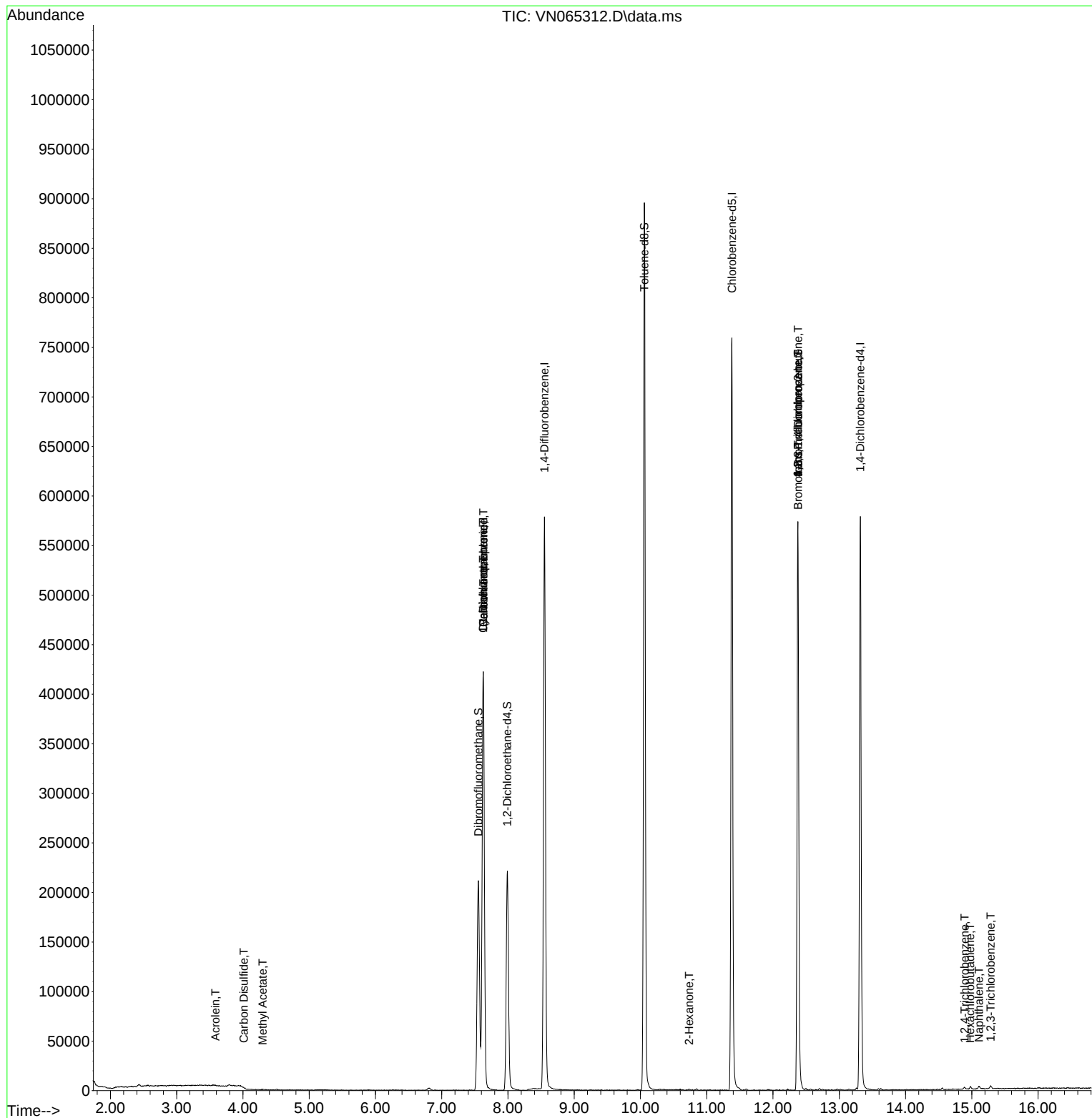
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 7.627          | 168  | 381769     | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.550          | 114  | 551058     | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.380         | 117  | 480219     | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.318         | 152  | 185739     | 50.00     | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.991          | 65   | 194359     | 45.10     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = | 90.20%    |        |          |
| 35) Dibromofluoromethane      | 7.553          | 113  | 164915     | 49.60     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = | 99.20%    |        |          |
| 50) Toluene-d8                | 10.058         | 98   | 648325     | 52.03     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = | 104.06%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.376         | 95   | 206462     | 42.72     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = | 85.44%    |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           | Qvalue |          |
| 13) Acrolein                  | 3.586          | 56   | 94         | 2.61      | ug/l # | 31       |
| 16) Acetone                   | 3.795          | 43   | 1633       | Below Cal |        | 95       |
| 17) Carbon Disulfide          | 4.013          | 76   | 2026       | 0.21      | ug/l # | 75       |
| 18) Methyl Acetate            | 4.296          | 43   | 789        | 0.20      | ug/l # | 50       |
| 31) Cyclohexane               | 7.624          | 56   | 6505       | 1.02      | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.624          | 75   | 24947      | 4.98      | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 7.627          | 117  | 32604      | 6.20      | ug/l # | 16       |
| 59) 2-Hexanone                | 10.733         | 43   | 1083       | 0.31      | ug/l # | 48       |
| 71) Bromoform                 | 12.380         | 173  | 1144       | 0.35      | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.376         | 75   | 101274     | 26.73     | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.376         | 75   | 101274     | 67.39     | ug/l # | 15       |
| 93) 1,2,4-Trichlorobenzene    | 14.894         | 180  | 1248       | 3.15      | ug/l # | 86       |
| 94) Hexachlorobutadiene       | 14.977         | 225  | 741        | 0.32      | ug/l   | 91       |
| 95) Naphthalene               | 15.109         | 128  | 4179       | 3.78      | ug/l # | 87       |
| 96) 1,2,3-Trichlorobenzene    | 15.286         | 180  | 1675       | 3.68      | ug/l   | 96       |
| -----                         |                |      |            |           |        |          |

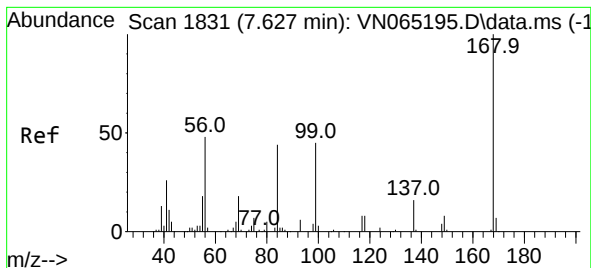
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN123020\  
Data File : VN065312.D  
Acq On : 30 Dec 2020 11:49  
Operator : JC/MD  
Sample : VN1230MBL01  
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Dec 31 03:00:03 2020  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122220W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 22 15:42:18 2020  
Response via : Initial Calibration

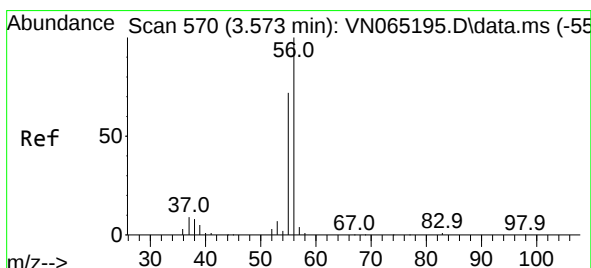
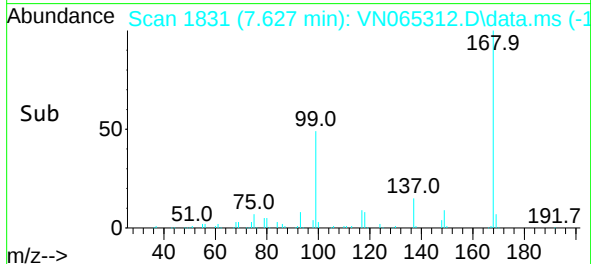
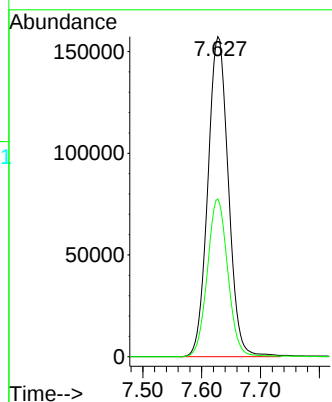
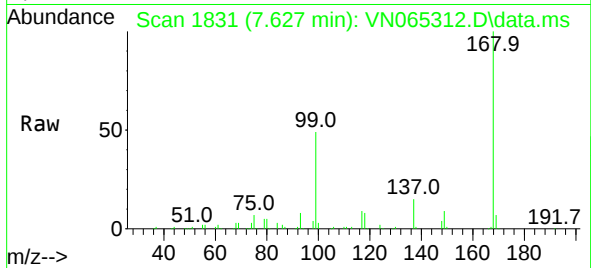




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.627 min Scan# 1831  
Delta R.T. 0.000 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

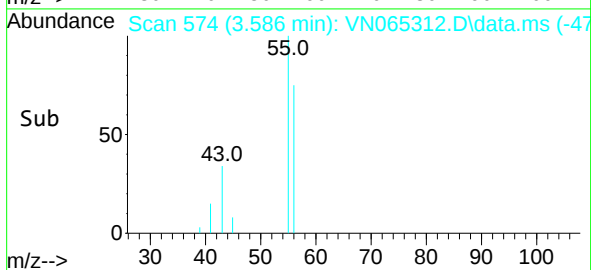
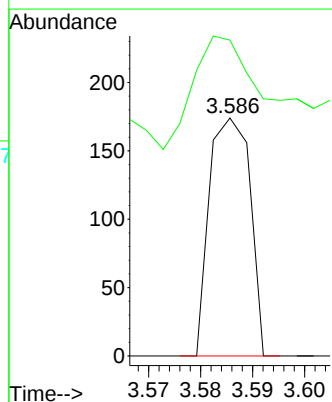
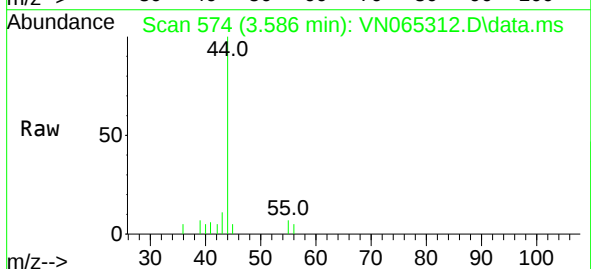
Instrument :  
MSVOA\_N  
ClientSampled :

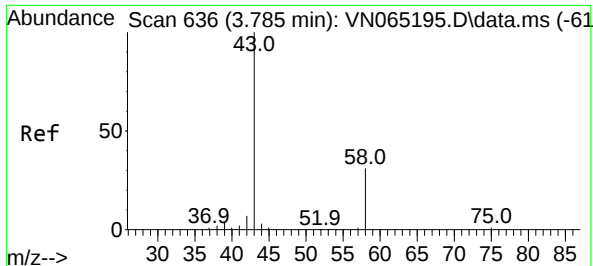
Tgt Ion:168 Resp: 381769  
Ion Ratio Lower Upper  
168 100  
99 49.3 43.0 64.4



#13  
Acrolein  
Concen: 2.61 ug/l  
RT: 3.586 min Scan# 574  
Delta R.T. 0.013 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

Tgt Ion: 56 Resp: 94  
Ion Ratio Lower Upper  
56 100  
55 127.7 56.5 84.7#

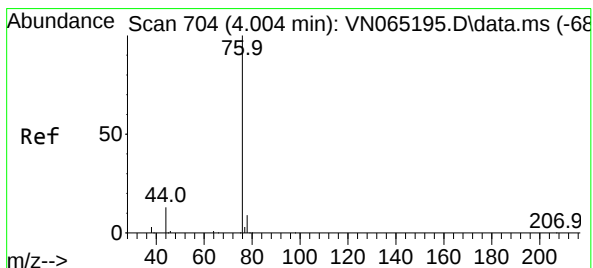
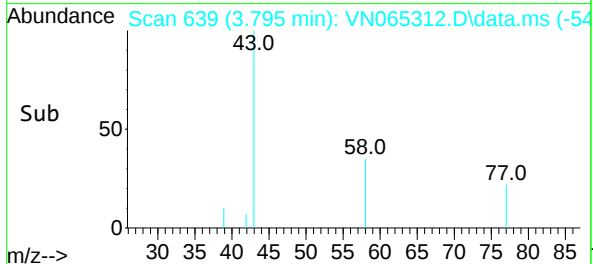
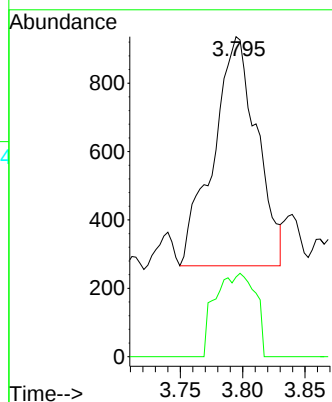
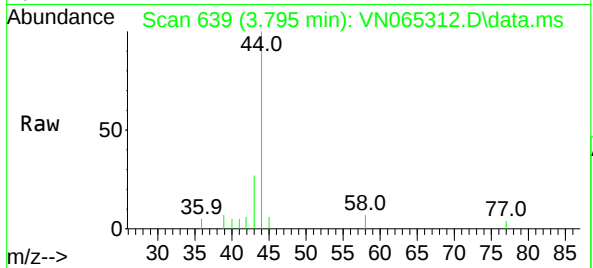




#16  
Acetone  
Concen: Below Cal  
RT: 3.795 min Scan# 639  
Delta R.T. 0.010 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

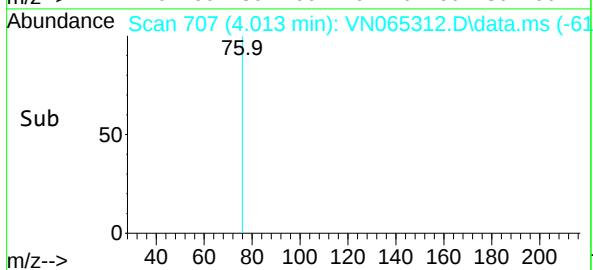
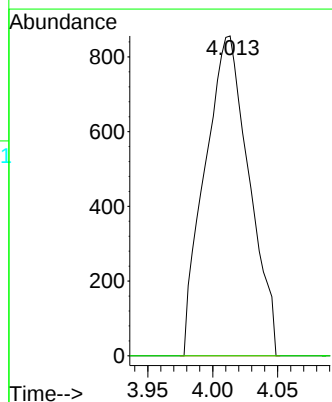
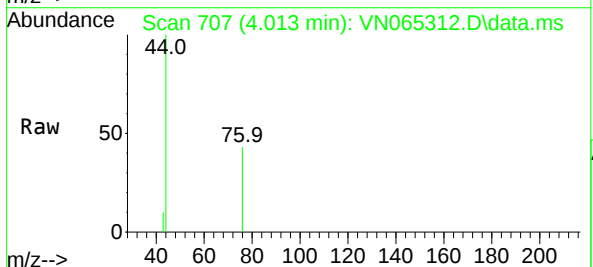
Instrument :  
MSVOA\_N  
ClientSampleId :

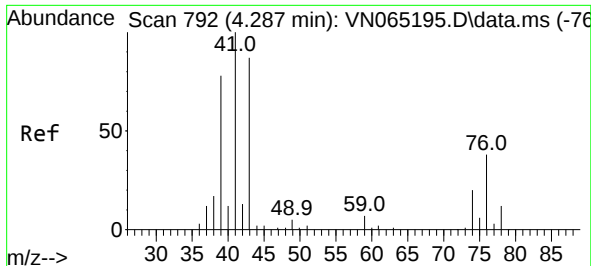
Tgt Ion: 43 Resp: 1633  
Ion Ratio Lower Upper  
43 100  
58 34.8 25.7 38.5



#17  
Carbon Disulfide  
Concen: 0.21 ug/l  
RT: 4.013 min Scan# 707  
Delta R.T. 0.009 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

Tgt Ion: 76 Resp: 2026  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.4 11.0#

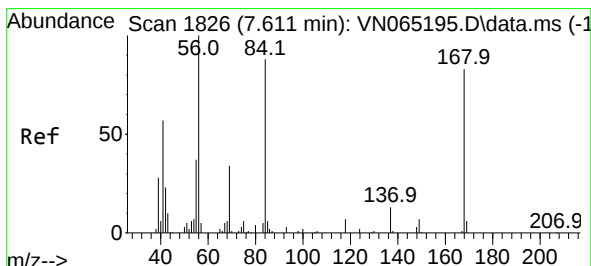
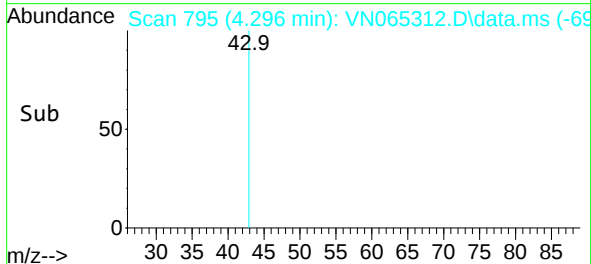
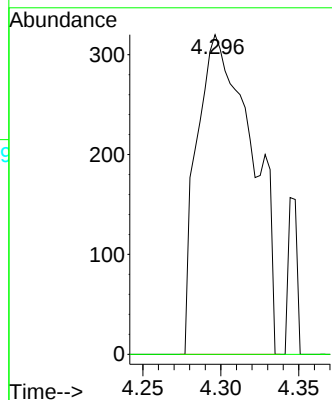
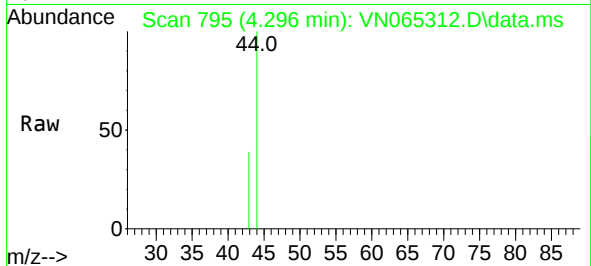




#18  
Methyl Acetate  
Concen: 0.20 ug/l  
RT: 4.296 min Scan# 795  
Delta R.T. 0.009 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

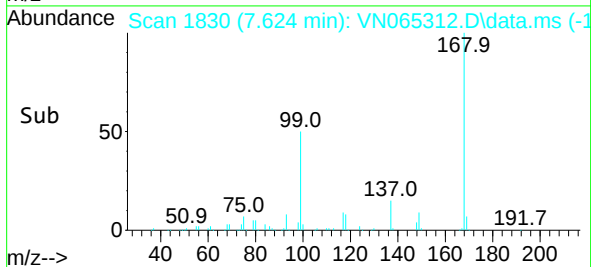
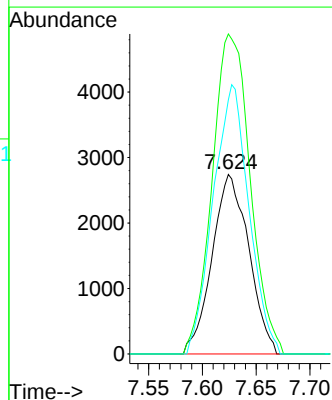
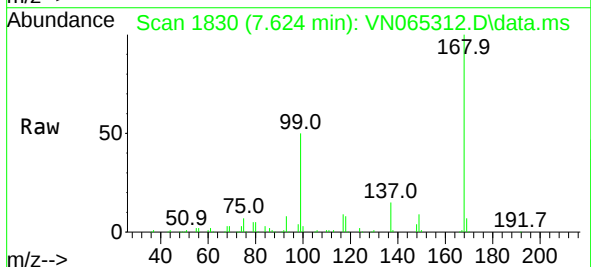
Instrument :  
MSVOA\_N  
ClientSampled :

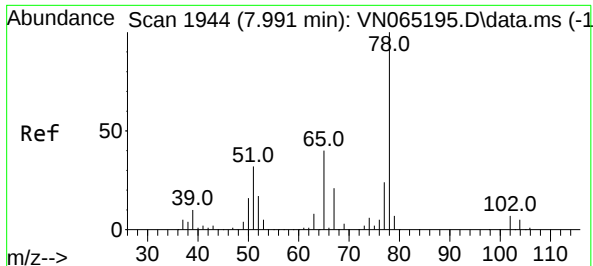
Tgt Ion: 43 Resp: 789  
Ion Ratio Lower Upper  
43 100  
74 0.0 20.2 30.2#



#31  
Cyclohexane  
Concen: 1.02 ug/l  
RT: 7.624 min Scan# 1830  
Delta R.T. 0.013 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

Tgt Ion: 56 Resp: 6505  
Ion Ratio Lower Upper  
56 100  
69 178.2 27.5 41.3#  
84 141.5 73.9 110.9#

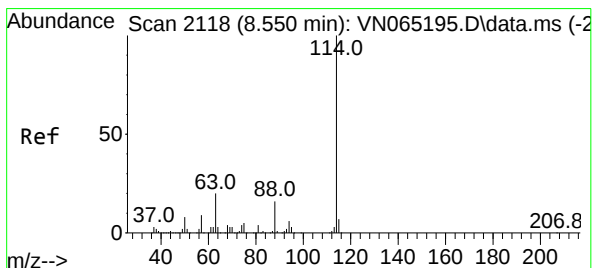
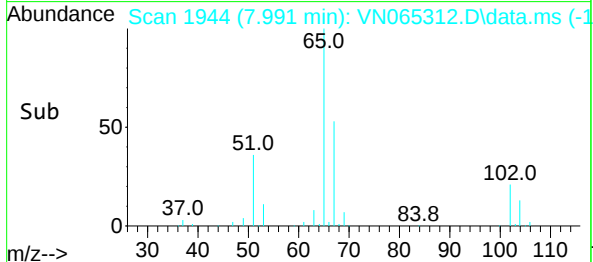
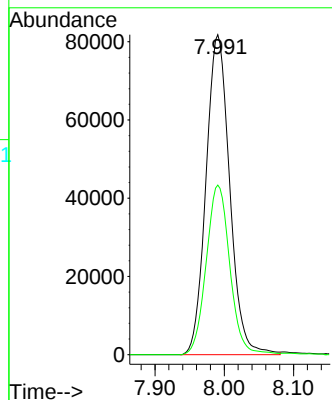
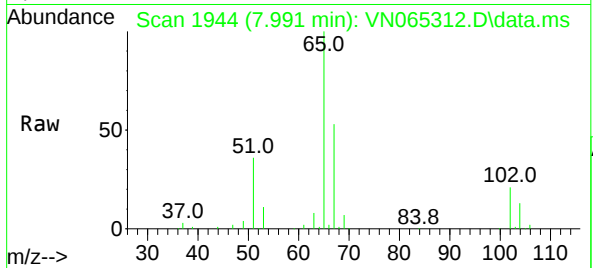




#33  
1,2-Dichloroethane-d4  
Concen: 45.10 ug/l  
RT: 7.991 min Scan# 1944  
Delta R.T. -0.000 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

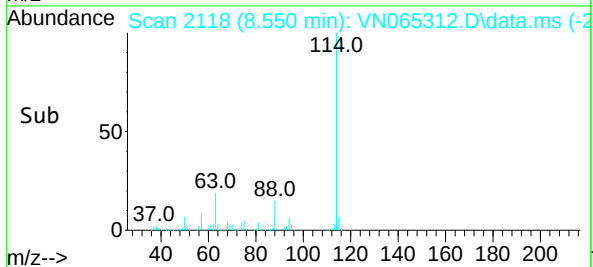
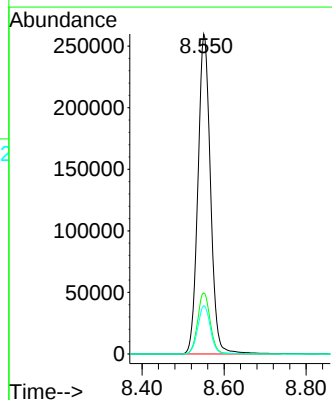
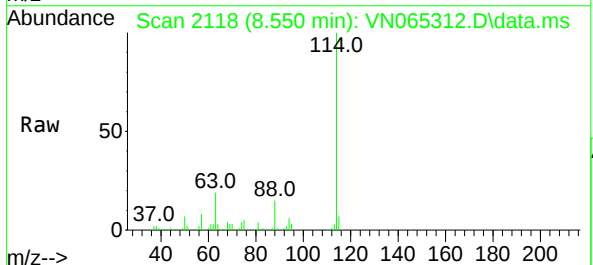
Instrument :  
MSVOA\_N  
ClientSampled :

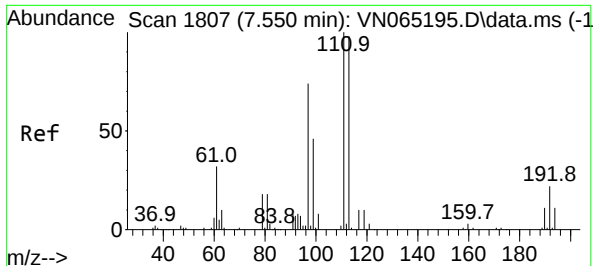
Tgt Ion: 65 Resp: 194359  
Ion Ratio Lower Upper  
65 100  
67 52.8 0.0 108.2



#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.550 min Scan# 2118  
Delta R.T. 0.000 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

Tgt Ion: 114 Resp: 551058  
Ion Ratio Lower Upper  
114 100  
63 19.1 0.0 38.6  
88 15.1 0.0 32.6

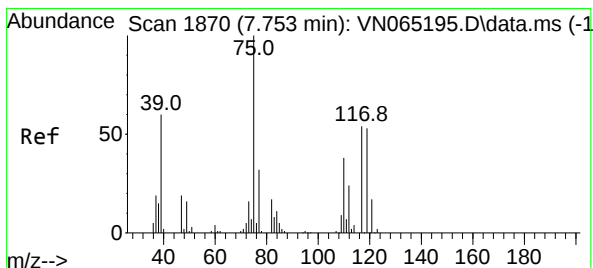
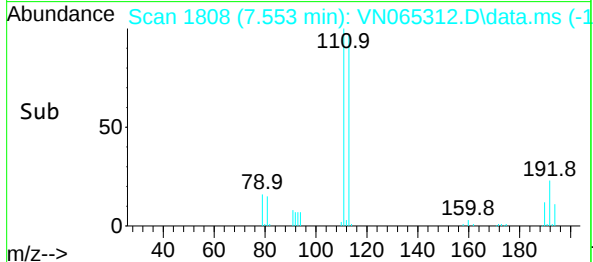
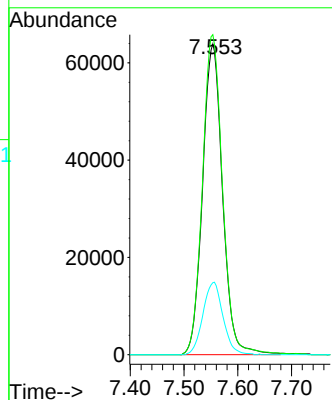
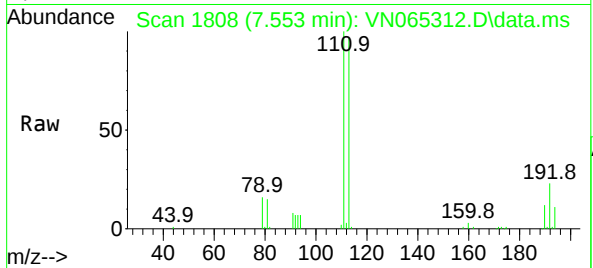




#35  
Dibromofluoromethane  
Concen: 49.60 ug/l  
RT: 7.553 min Scan# 1808  
Delta R.T. 0.003 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

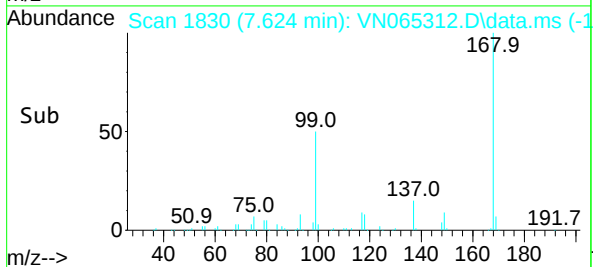
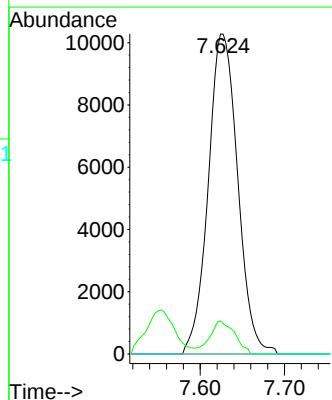
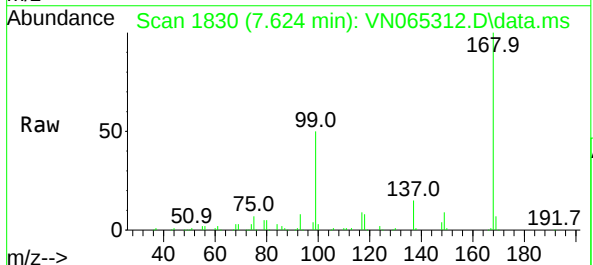
Instrument :  
MSVOA\_N  
ClientSampleId :

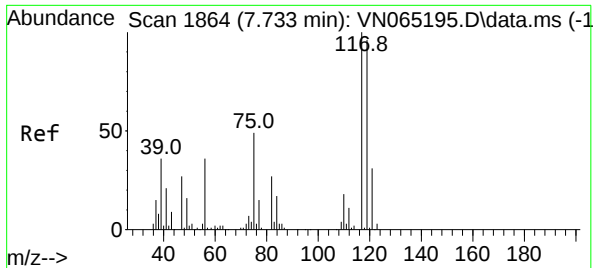
Tgt Ion:113 Resp: 164915  
Ion Ratio Lower Upper  
113 100  
111 103.5 81.6 122.4  
192 23.4 16.2 24.2



#36  
1,1-Dichloropropene  
Concen: 4.98 ug/l  
RT: 7.624 min Scan# 1830  
Delta R.T. -0.129 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

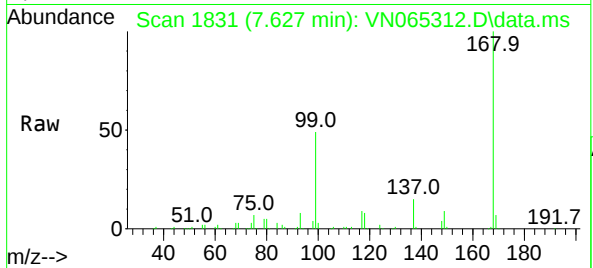
Tgt Ion: 75 Resp: 24947  
Ion Ratio Lower Upper  
75 100  
110 8.7 17.8 53.3#  
77 0.0 25.0 37.4#



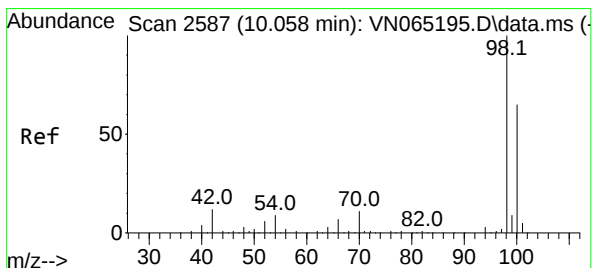
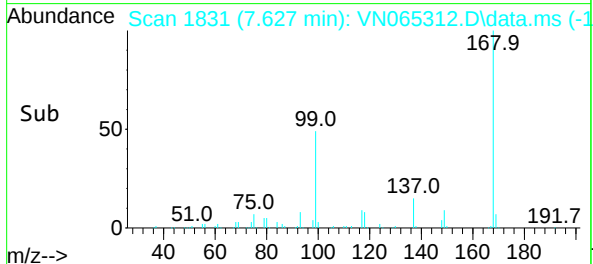
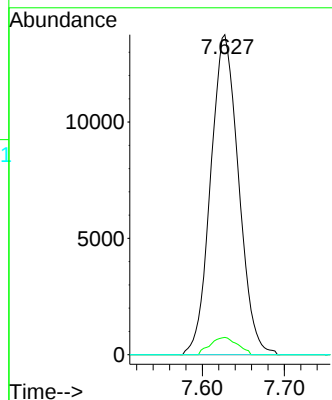


#38  
Carbon Tetrachloride  
Concen: 6.20 ug/l  
RT: 7.627 min Scan# 1831  
Delta R.T. -0.106 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

Instrument :  
MSVOA\_N  
ClientSampled :

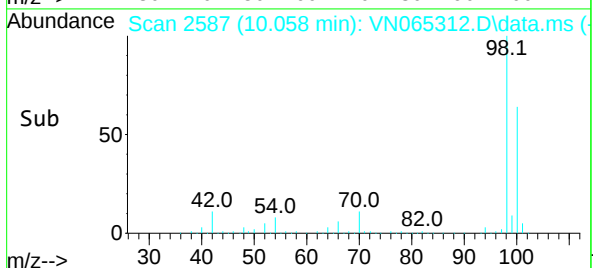
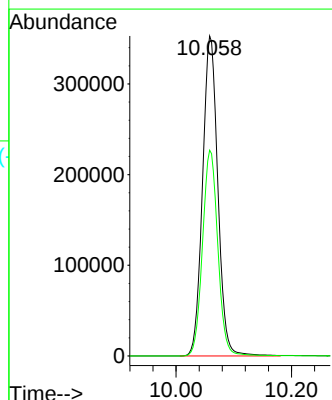
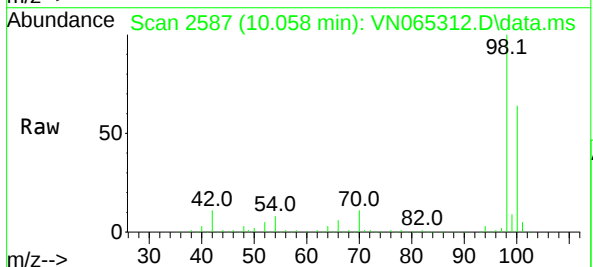


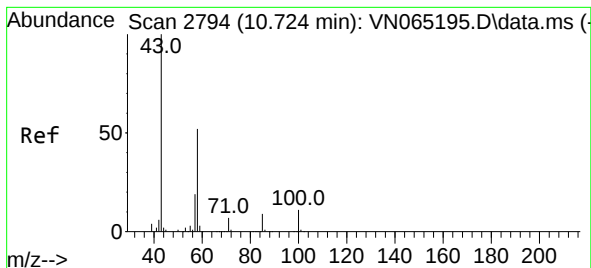
Tgt Ion:117 Resp: 32604  
Ion Ratio Lower Upper  
117 100  
119 5.4 76.7 115.1#  
121 0.0 25.4 38.2#



#50  
Toluene-d8  
Concen: 52.03 ug/l  
RT: 10.058 min Scan# 2587  
Delta R.T. 0.000 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

Tgt Ion: 98 Resp: 648325  
Ion Ratio Lower Upper  
98 100  
100 64.4 51.7 77.5

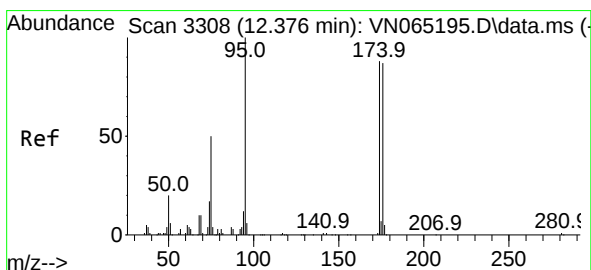
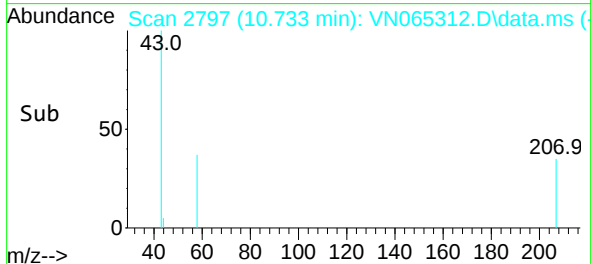
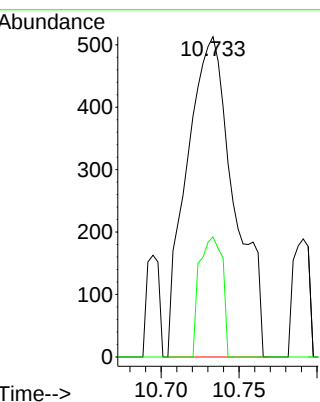
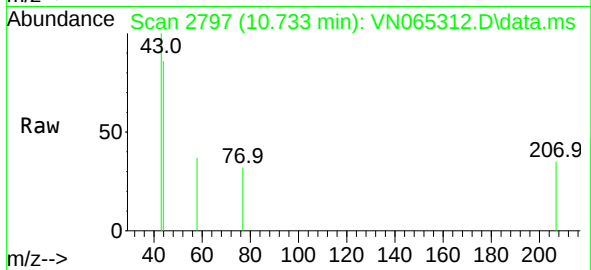




#59  
2-Hexanone  
Concen: 0.31 ug/l  
RT: 10.733 min Scan# 2797  
Delta R.T. 0.009 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

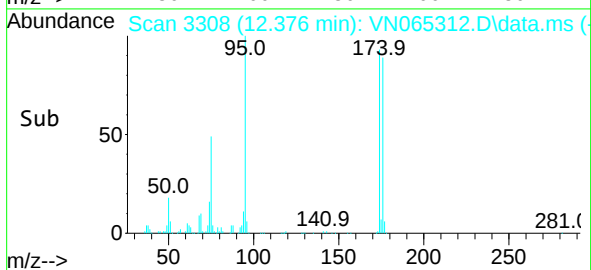
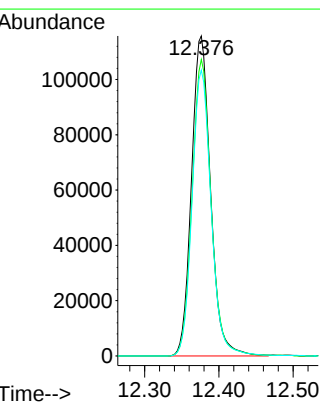
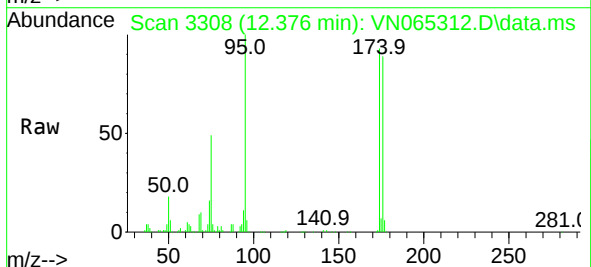
Instrument :  
MSVOA\_N  
ClientSampleId :

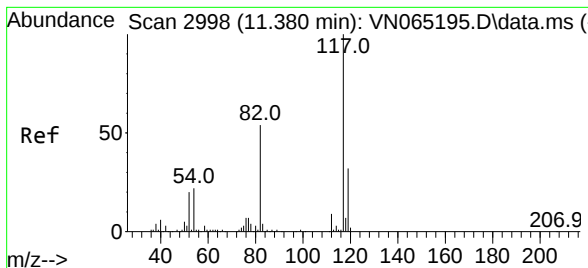
Tgt Ion: 43 Resp: 1083  
Ion Ratio Lower Upper  
43 100  
58 18.2 28.3 84.9#



#62  
4-Bromofluorobenzene  
Concen: 42.72 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.000 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

Tgt Ion: 95 Resp: 206462  
Ion Ratio Lower Upper  
95 100  
174 92.1 0.0 160.4  
176 89.1 0.0 158.4

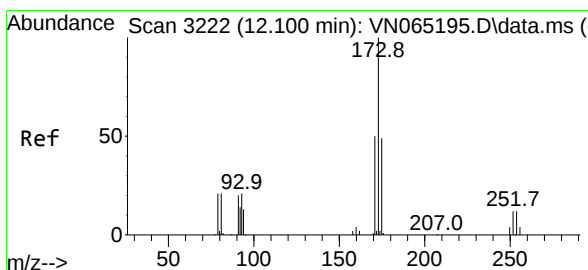
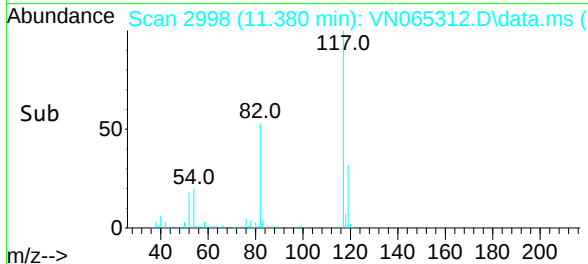
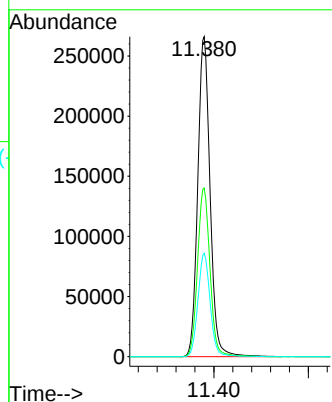
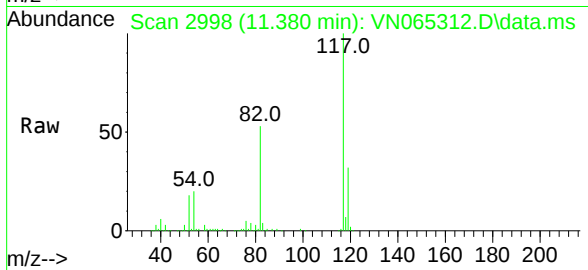




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.380 min Scan# 2998  
Delta R.T. -0.000 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

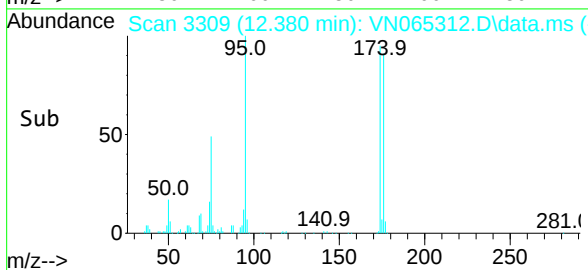
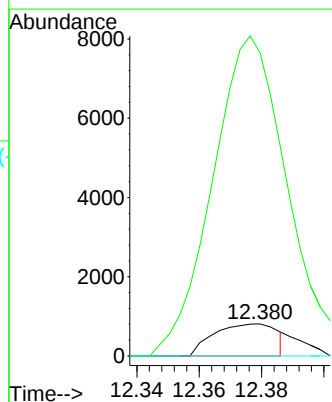
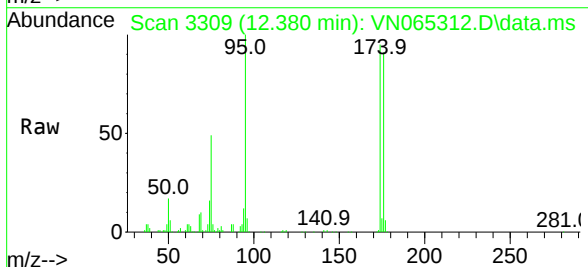
Instrument :  
MSVOA\_N  
ClientSampled :

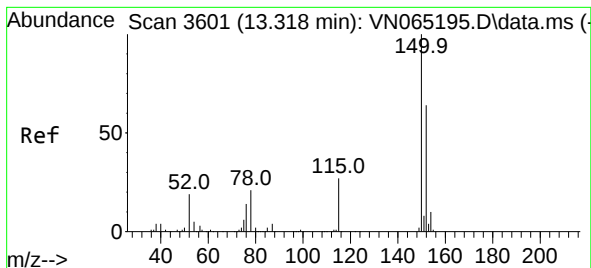
Tgt Ion:117 Resp: 480219  
Ion Ratio Lower Upper  
117 100  
82 52.7 44.2 66.2  
119 32.3 25.8 38.6



#71  
Bromoform  
Concen: 0.35 ug/l  
RT: 12.380 min Scan# 3309  
Delta R.T. 0.280 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

Tgt Ion:173 Resp: 1144  
Ion Ratio Lower Upper  
173 100  
175 980.6 24.3 72.8#  
254 0.0 0.0 0.0

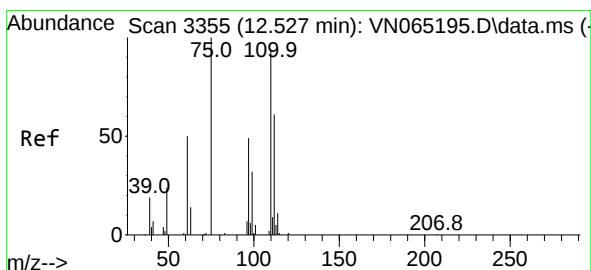
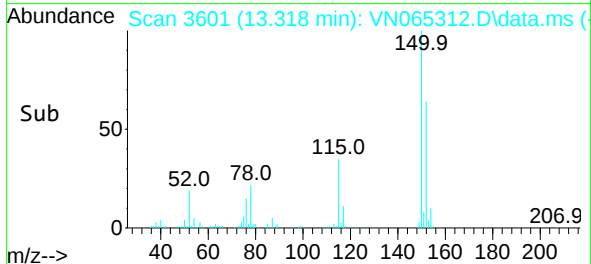
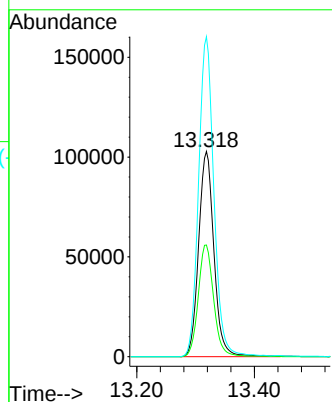
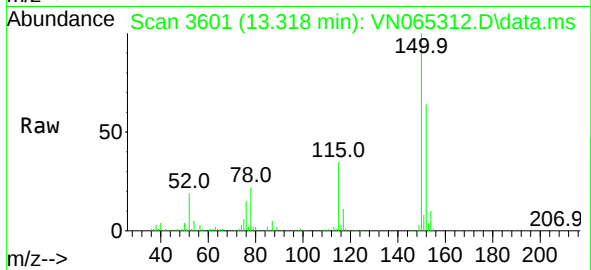




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 13.318 min Scan# 3601  
 Delta R.T. 0.000 min  
 Lab File: VN065312.D  
 Acq: 30 Dec 2020 11:49

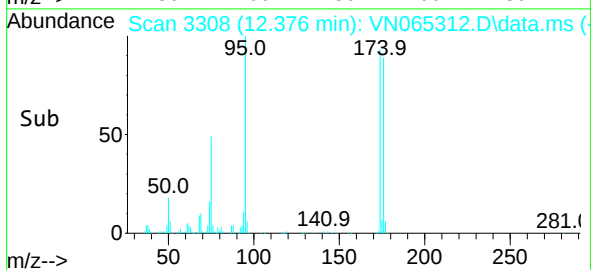
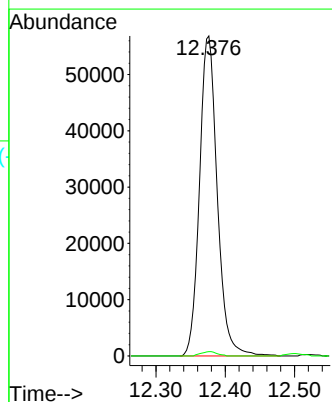
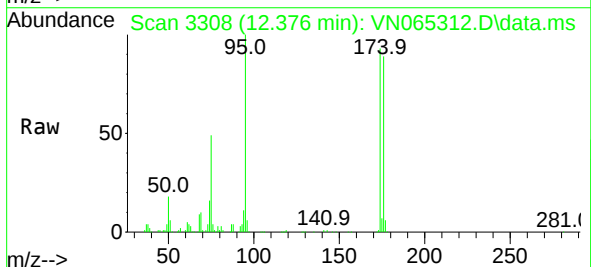
Instrument :  
 MSVOA\_N  
 ClientSampled :

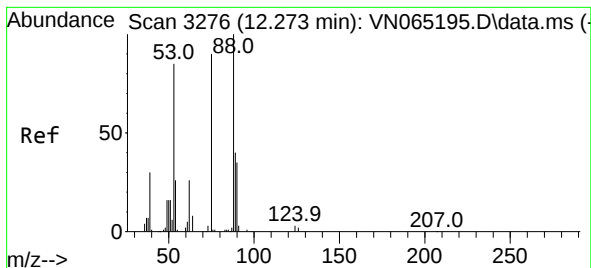
Tgt Ion:152 Resp: 185739  
 Ion Ratio Lower Upper  
 152 100  
 115 55.0 29.7 89.1  
 150 156.2 0.0 350.6



#76  
 1,2,3-Trichloropropane  
 Concen: 26.73 ug/l  
 RT: 12.376 min Scan# 3308  
 Delta R.T. -0.151 min  
 Lab File: VN065312.D  
 Acq: 30 Dec 2020 11:49

Tgt Ion: 75 Resp: 101274  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#

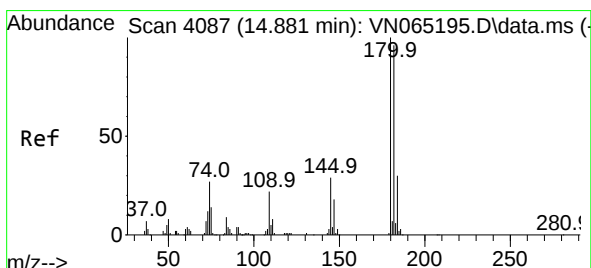
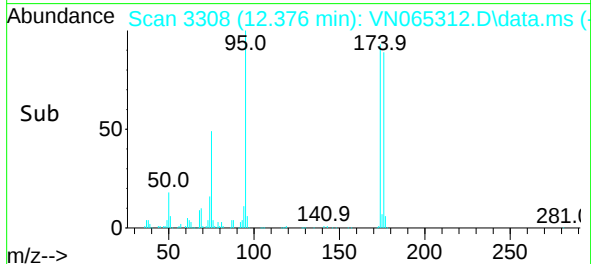
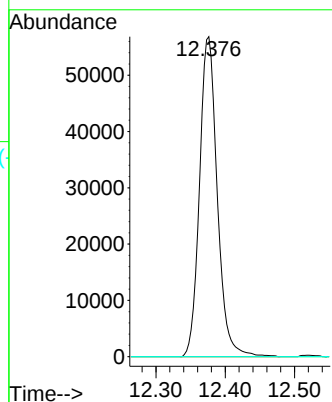
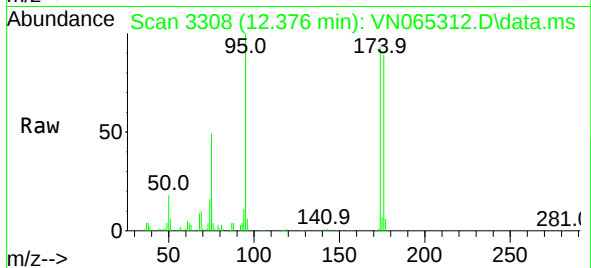




#81  
trans-1,4-Dichloro-2-butene  
Concen: 67.39 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.103 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

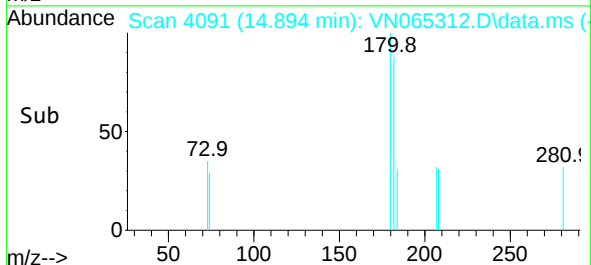
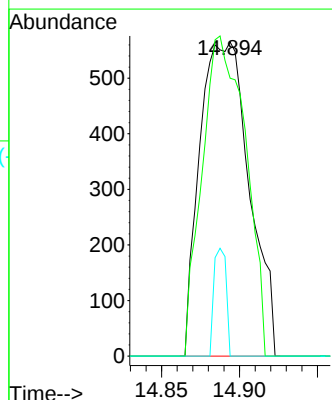
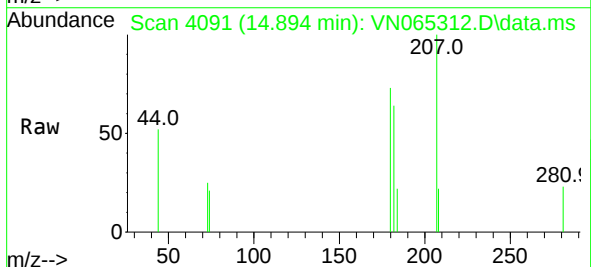
Instrument :  
MSVOA\_N  
ClientSampled :

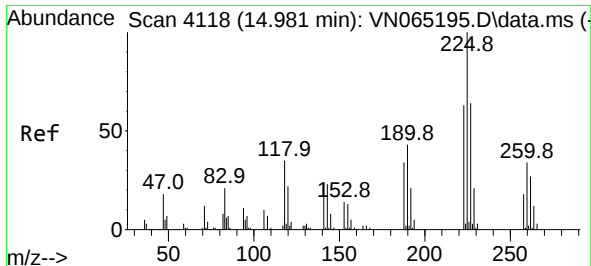
Tgt Ion: 75 Resp: 101274  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.0 100.4#  
89 0.0 39.6 59.4#



#93  
1,2,4-Trichlorobenzene  
Concen: 3.15 ug/l  
RT: 14.894 min Scan# 4091  
Delta R.T. 0.013 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

Tgt Ion:180 Resp: 1248  
Ion Ratio Lower Upper  
180 100  
182 89.4 47.6 142.9  
145 8.5 15.3 45.8#

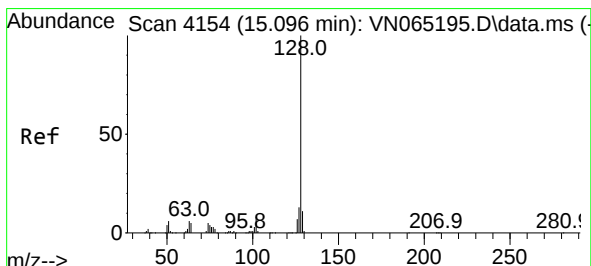
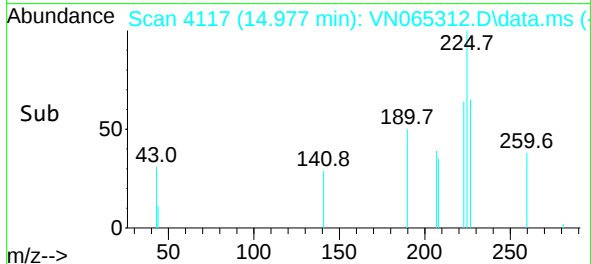
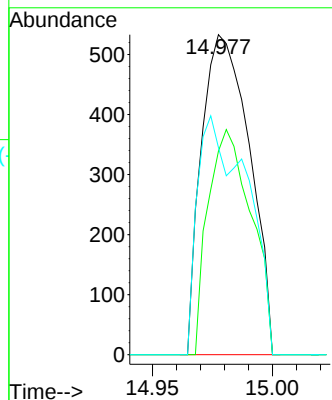
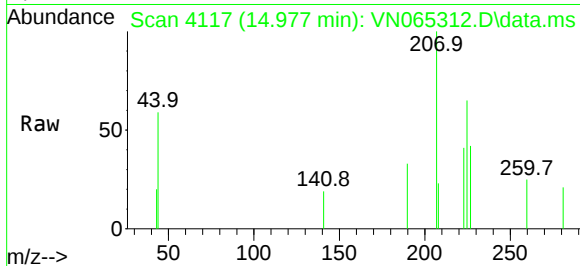




#94  
Hexachlorobutadiene  
Concen: 0.32 ug/l  
RT: 14.977 min Scan# 4117  
Delta R.T. -0.004 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

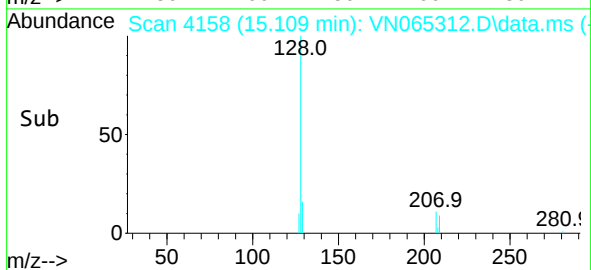
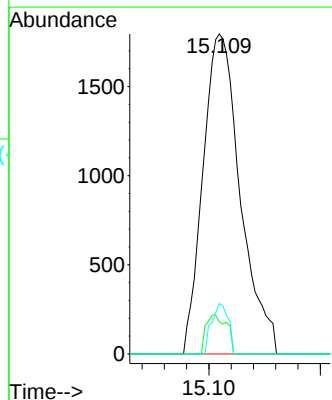
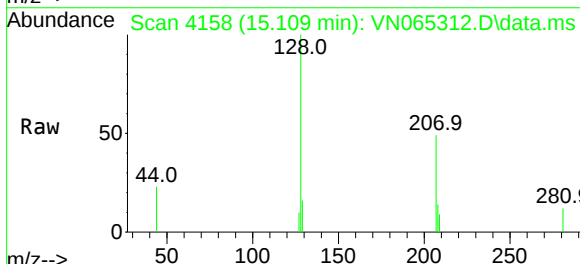
Instrument :  
MSVOA\_N  
ClientSampled :

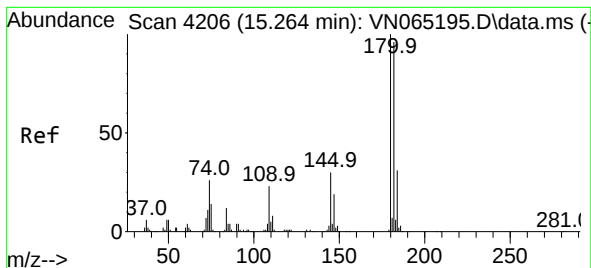
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:225 | Resp: | 741       |
| Ion Ratio   | Lower | Upper     |
| 225         | 100   |           |
| 223         | 63.4  | 31.0 93.0 |
| 227         | 77.2  | 32.0 96.0 |



#95  
Naphthalene  
Concen: 3.78 ug/l  
RT: 15.109 min Scan# 4158  
Delta R.T. 0.013 min  
Lab File: VN065312.D  
Acq: 30 Dec 2020 11:49

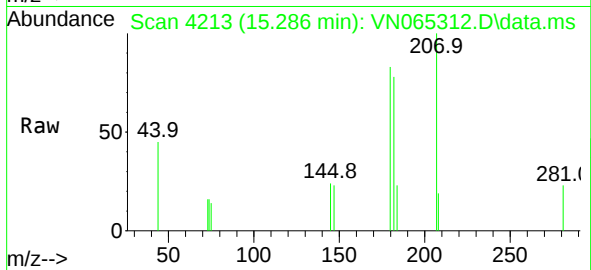
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:128 | Resp: | 4179       |
| Ion Ratio   | Lower | Upper      |
| 128         | 100   |            |
| 127         | 6.7   | 10.3 15.5# |
| 129         | 7.0   | 8.7 13.1#  |





#96  
 1,2,3-Trichlorobenzene  
 Concen: 3.68 ug/l  
 RT: 15.286 min Scan# 4213  
 Delta R.T. 0.022 min  
 Lab File: VN065312.D  
 Acq: 30 Dec 2020 11:49

Instrument :  
 MSVOA\_N  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 1675  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 93.7  | 48.1  | 144.4 |
| 145      | 27.8  | 16.4  | 49.1  |

