

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122820\  
 Data File : VD067958.D  
 Acq On : 28 Dec 2020 13:35  
 Operator : VA/SY  
 Sample : L5221-05  
 Misc : 6.51G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 29 00:11:49 2020  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D122220S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 23 07:34:16 2020  
 Response via : Initial Calibration

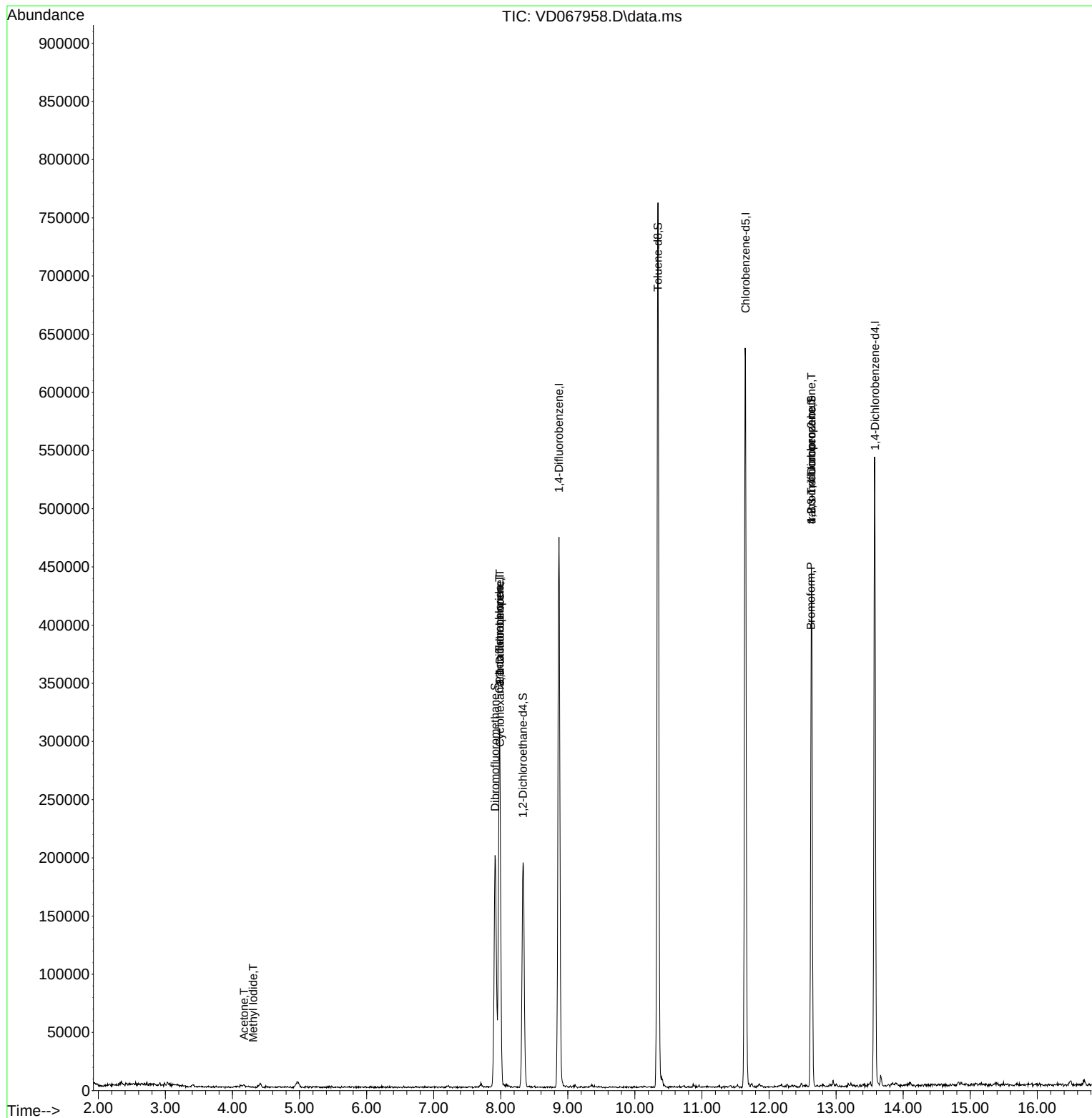
| Compound                      | R.T.           | QIon | Response           | Conc        | Units | Dev(Min) |
|-------------------------------|----------------|------|--------------------|-------------|-------|----------|
| -----                         |                |      |                    |             |       |          |
| Internal Standards            |                |      |                    |             |       |          |
| 1) Pentafluorobenzene         | 7.985          | 168  | 214333             | 50.00       | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.867          | 114  | 397803             | 50.00       | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.649         | 117  | 368025             | 50.00       | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.579         | 152  | 138335             | 50.00       | ug/l  | 0.00     |
|                               |                |      |                    |             |       |          |
| System Monitoring Compounds   |                |      |                    |             |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.332          | 65   | 154203             | 66.63       | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 133.26% |             |       |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 146453             | 58.43       | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 116.86% |             |       |          |
| 50) Toluene-d8                | 10.344         | 98   | 509225             | 54.05       | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 108.10% |             |       |          |
| 62) 4-Bromofluorobenzene      | 12.632         | 95   | 147153             | 45.66       | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 91.32%  |             |       |          |
|                               |                |      |                    |             |       |          |
| Target Compounds              |                |      |                    |             |       |          |
| 5) Bromomethane               | 2.779          | 94   | 460                | Below Cal   | #     | 4        |
| 10) Methyl Iodide             | 4.309          | 142  | 73                 | 3.88 ug/l   | #     | 41       |
| 11) Tert butyl alcohol        | 5.215          | 59   | 103                | Below Cal   | #     | 74       |
| 16) Acetone                   | 4.173          | 43   | 3339               | 7.56 ug/l   |       | 99       |
| 20) Methylene Chloride        | 4.967          | 84   | 3380               | Below Cal   | #     | 80       |
| 31) Cyclohexane               | 7.991          | 56   | 5938               | 1.26 ug/l   | #     | 34       |
| 36) 1,1-Dichloropropene       | 7.985          | 75   | 18998              | 4.49 ug/l   | #     | 51       |
| 38) Carbon Tetrachloride      | 7.979          | 117  | 24033              | 5.95 ug/l   | #     | 15       |
| 71) Bromoform                 | 12.626         | 173  | 1755               | 1.23 ug/l   | #     | 28       |
| 76) 1,2,3-Trichloropropane    | 12.632         | 75   | 75681              | 64.98 ug/l  | #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.632         | 75   | 75681              | 133.20 ug/l | #     | 12       |
| -----                         |                |      |                    |             |       |          |

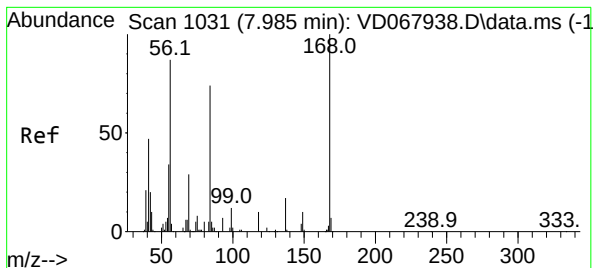
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122820\  
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Sample : L5221-05  
Misc : 6.51G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Dec 29 00:11:49 2020  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D122220S.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 23 07:34:16 2020  
Response via : Initial Calibration

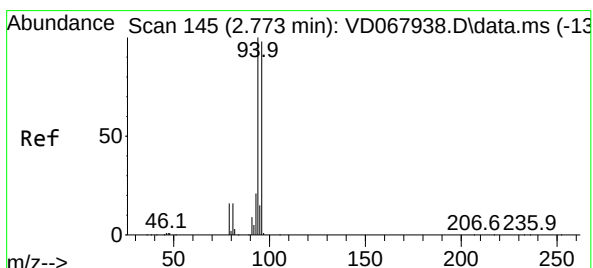
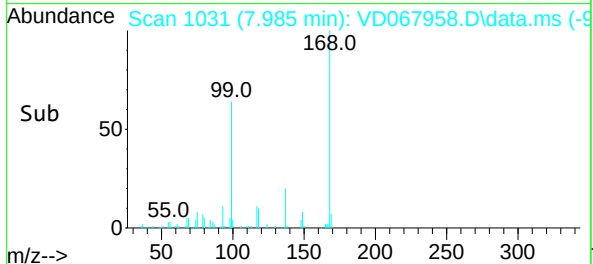
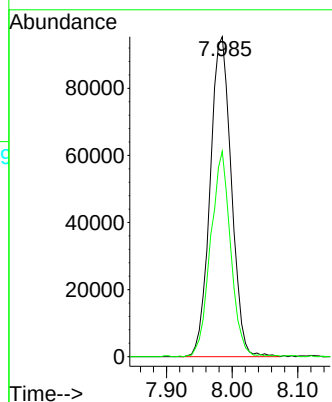
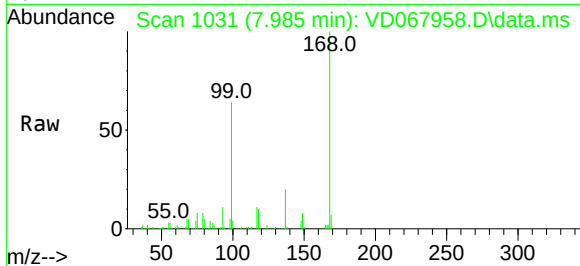




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. -0.000 min  
Lab File: VD067958.D  
Acq: 28 Dec 2020 13:35

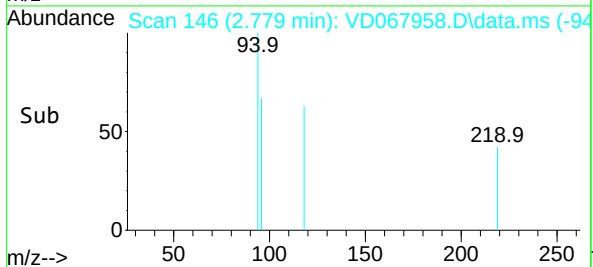
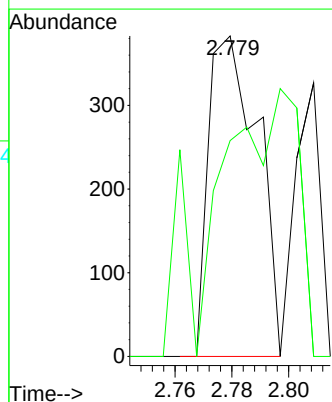
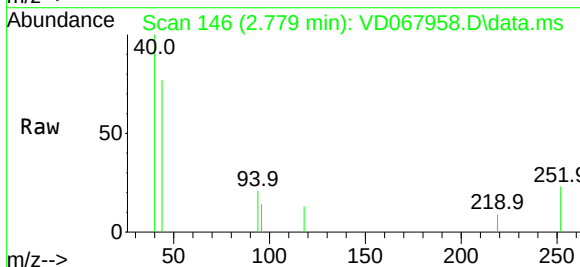
Instrument :  
MSVOA\_D  
ClientSampleId :

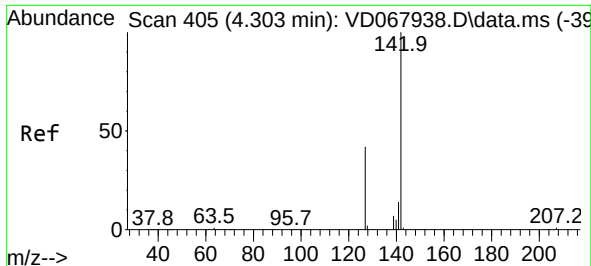
Tgt Ion:168 Resp: 214333  
Ion Ratio Lower Upper  
168 100  
99 64.0 48.0 72.0



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.779 min Scan# 146  
Delta R.T. 0.006 min  
Lab File: VD067958.D  
Acq: 28 Dec 2020 13:35

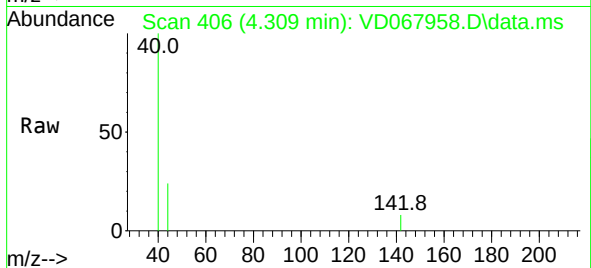
Tgt Ion: 94 Resp: 460  
Ion Ratio Lower Upper  
94 100  
96 2.9 78.0 117.0#



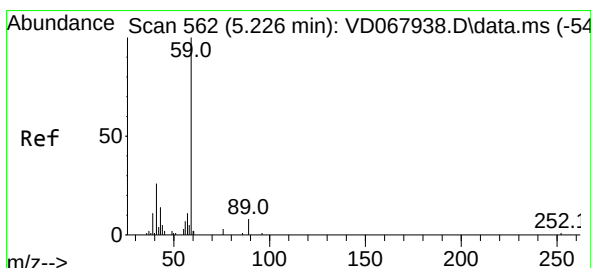
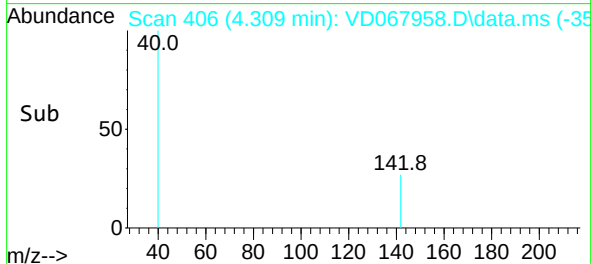
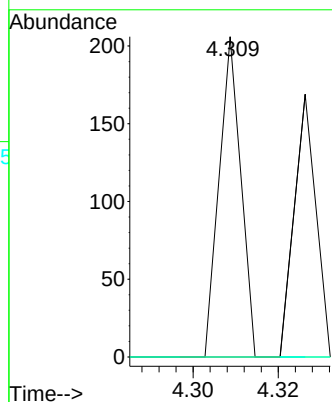


#10  
Methyl Iodide  
Concen: 3.88 ug/l  
RT: 4.309 min Scan# 406  
Delta R.T. 0.006 min  
Lab File: VD067958.D  
Acq: 28 Dec 2020 13:35

Instrument :  
MSVOA\_D  
ClientSampled :

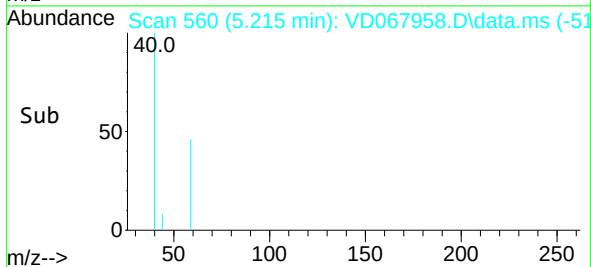
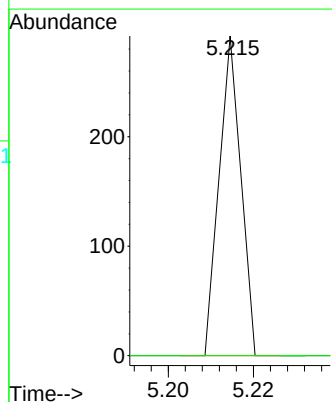
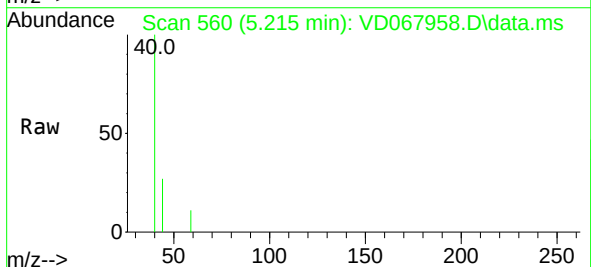


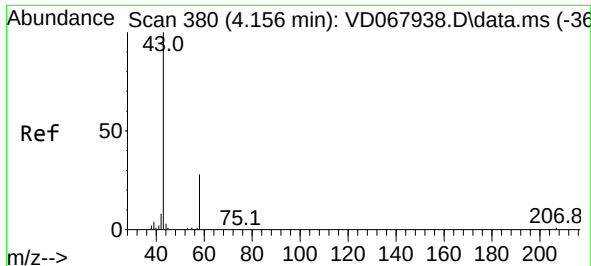
Tgt Ion:142 Resp: 73  
Ion Ratio Lower Upper  
142 100  
127 0.0 34.4 51.6#  
141 0.0 11.8 17.8#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.215 min Scan# 560  
Delta R.T. -0.011 min  
Lab File: VD067958.D  
Acq: 28 Dec 2020 13:35

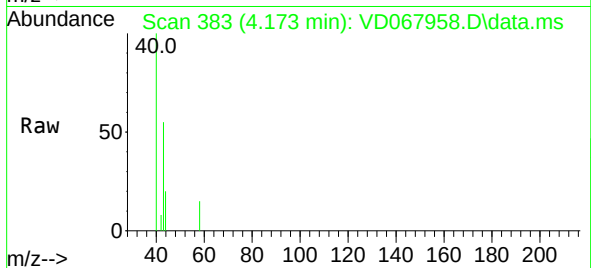
Tgt Ion: 59 Resp: 103  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.4 11.2#



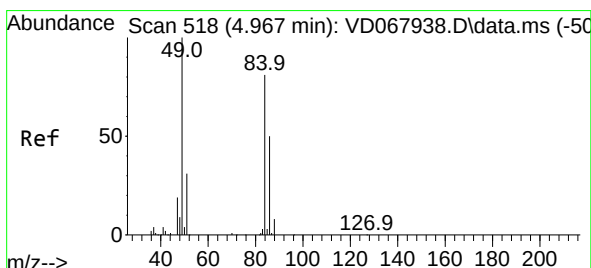
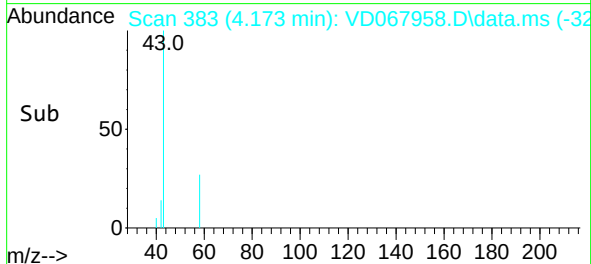
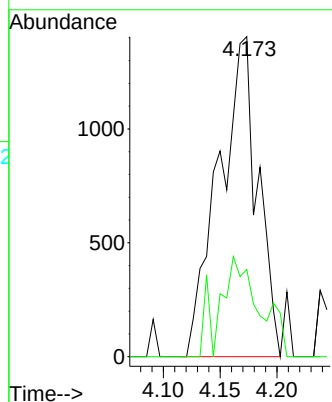


#16  
Acetone  
Concen: 7.56 ug/l  
RT: 4.173 min Scan# 383  
Delta R.T. 0.018 min  
Lab File: VD067958.D  
Acq: 28 Dec 2020 13:35

Instrument :  
MSVOA\_D  
ClientSampled :

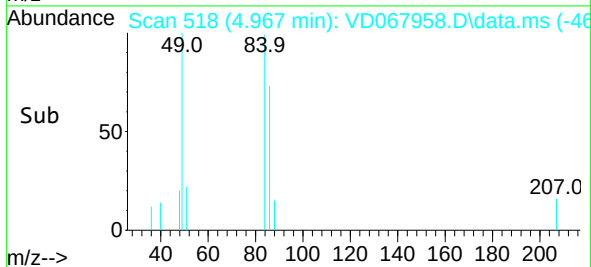
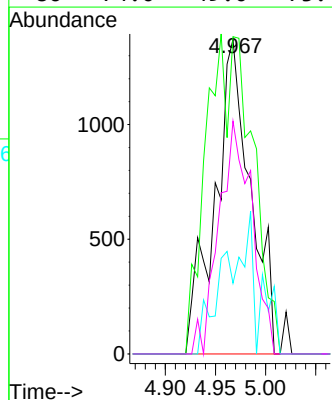
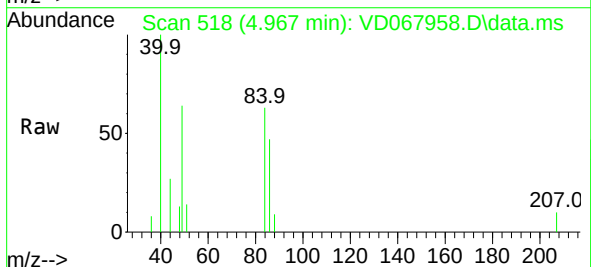


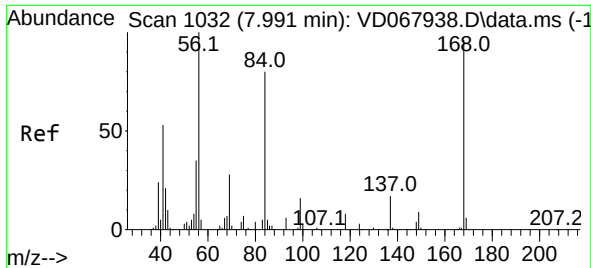
Tgt Ion: 43 Resp: 3339  
Ion Ratio Lower Upper  
43 100  
58 27.3 22.3 33.5



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.967 min Scan# 518  
Delta R.T. 0.000 min  
Lab File: VD067958.D  
Acq: 28 Dec 2020 13:35

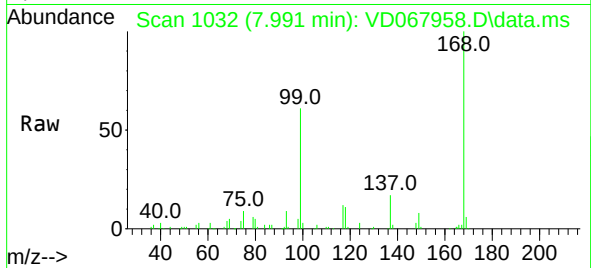
Tgt Ion: 84 Resp: 3380  
Ion Ratio Lower Upper  
84 100  
49 100.9 98.3 147.5  
51 22.5 30.3 45.5#  
86 74.0 49.0 73.4#



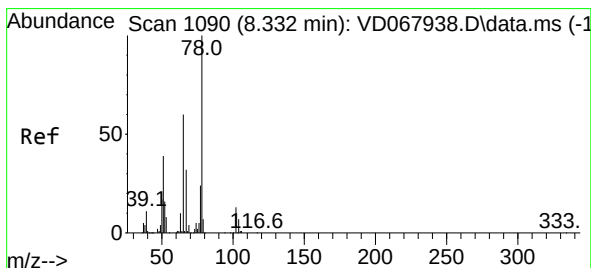
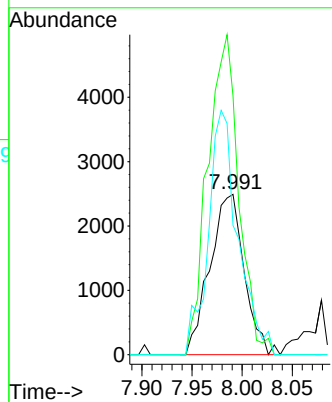
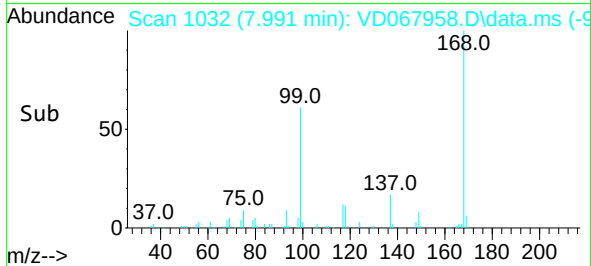


#31  
Cyclohexane  
Concen: 1.26 ug/l  
RT: 7.991 min Scan# 1032  
Delta R.T. 0.000 min  
Lab File: VD067958.D  
Acq: 28 Dec 2020 13:35

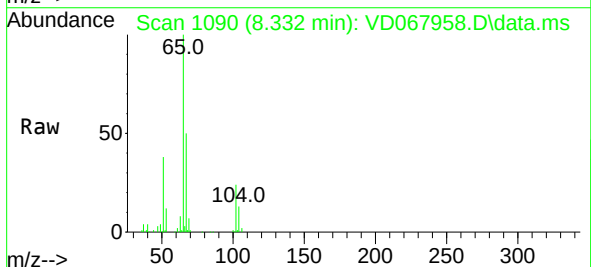
Instrument :  
MSVOA\_D  
ClientSampled :



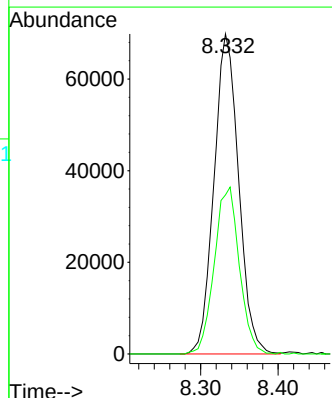
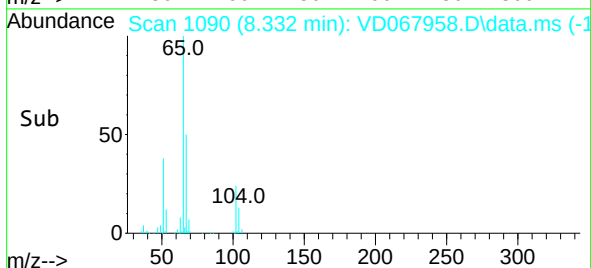
Tgt Ion: 56 Resp: 5938  
Ion Ratio Lower Upper  
56 100  
69 161.5 22.7 34.1#  
84 80.6 64.2 96.4

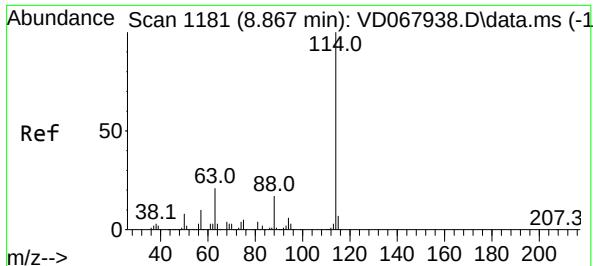


#33  
1,2-Dichloroethane-d4  
Concen: 66.63 ug/l  
RT: 8.332 min Scan# 1090  
Delta R.T. 0.000 min  
Lab File: VD067958.D  
Acq: 28 Dec 2020 13:35



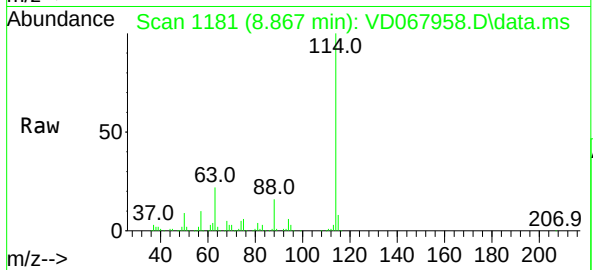
Tgt Ion: 65 Resp: 154203  
Ion Ratio Lower Upper  
65 100  
67 52.9 0.0 110.0



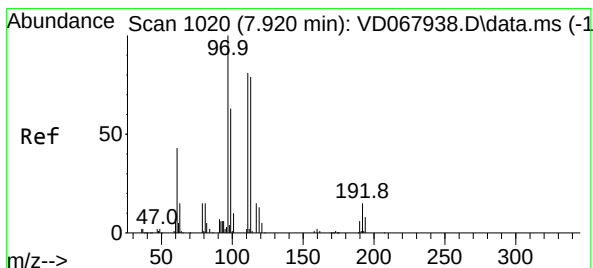
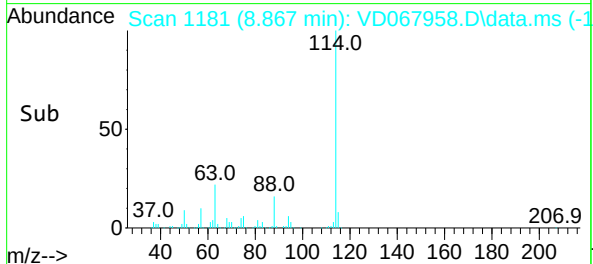
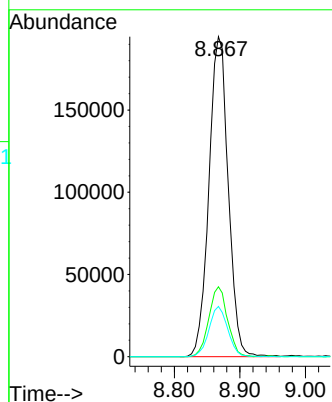


#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.867 min Scan# 1181  
Delta R.T. 0.000 min  
Lab File: VD067958.D  
Acq: 28 Dec 2020 13:35

Instrument :  
MSVOA\_D  
ClientSampleId :

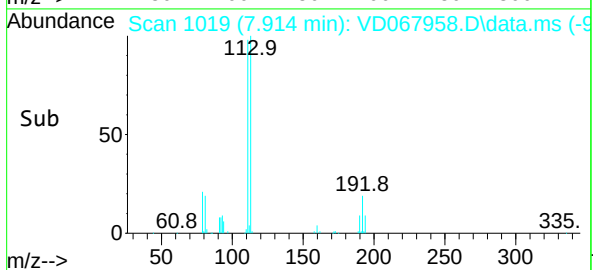
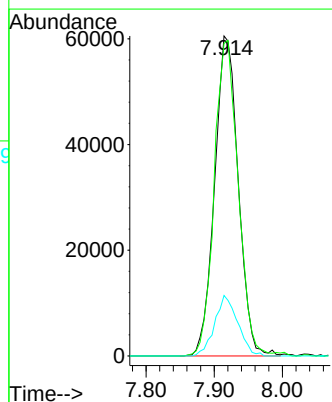
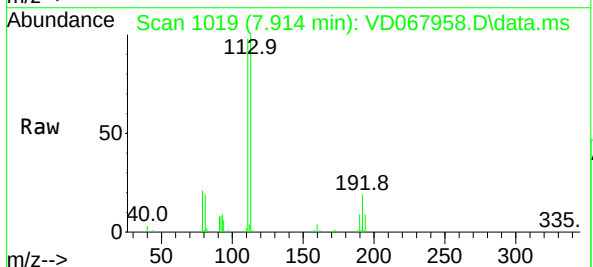


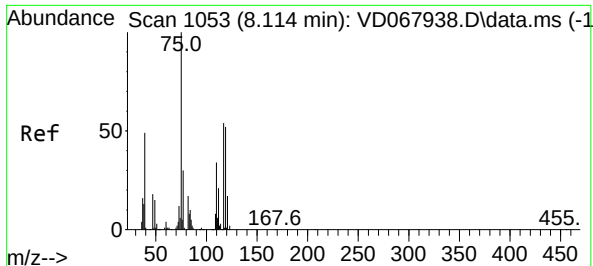
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.9  | 0.0   | 41.4  |
| 88      | 15.7  | 0.0   | 33.2  |



#35  
Dibromofluoromethane  
Concen: 58.43 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. -0.006 min  
Lab File: VD067958.D  
Acq: 28 Dec 2020 13:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 99.3  | 79.3  | 118.9 |
| 192     | 18.4  | 14.5  | 21.7  |

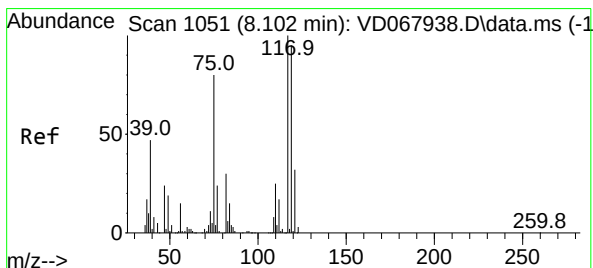
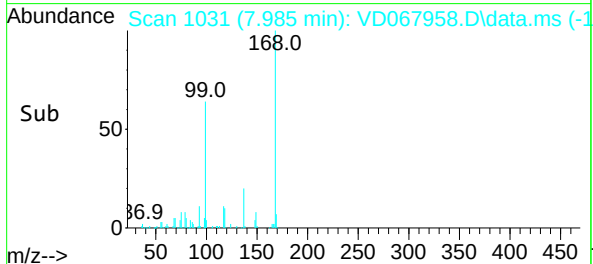
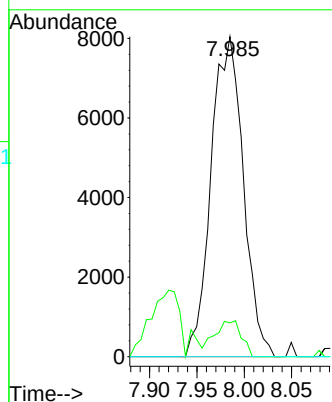
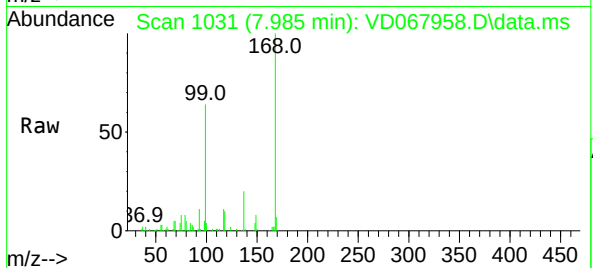




#36  
1,1-Dichloropropene  
Concen: 4.49 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. -0.129 min  
Lab File: VD067958.D  
Acq: 28 Dec 2020 13:35

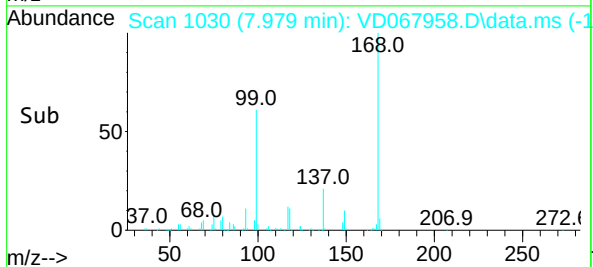
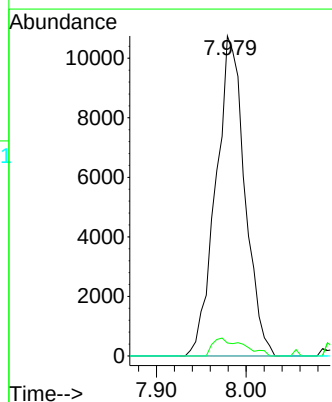
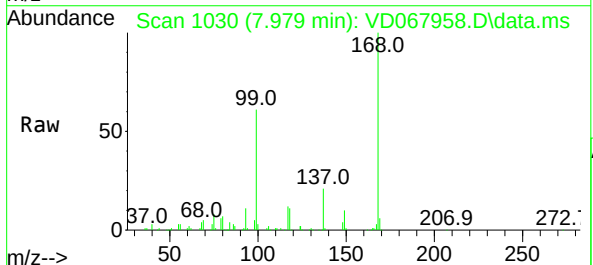
Instrument :  
MSVOA\_D  
ClientSampled :

Tgt Ion: 75 Resp: 18998  
Ion Ratio Lower Upper  
75 100  
110 9.4 17.0 51.0#  
77 0.0 24.6 37.0#

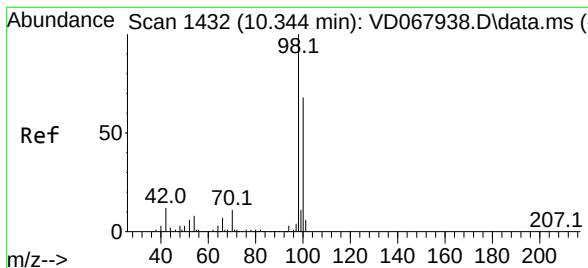


#38  
Carbon Tetrachloride  
Concen: 5.95 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.123 min  
Lab File: VD067958.D  
Acq: 28 Dec 2020 13:35

Tgt Ion: 117 Resp: 24033  
Ion Ratio Lower Upper  
117 100  
119 4.1 76.2 114.4#  
121 0.0 25.9 38.9#



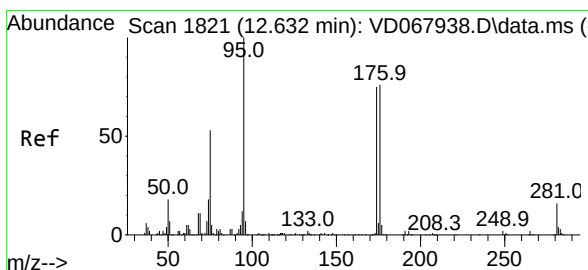
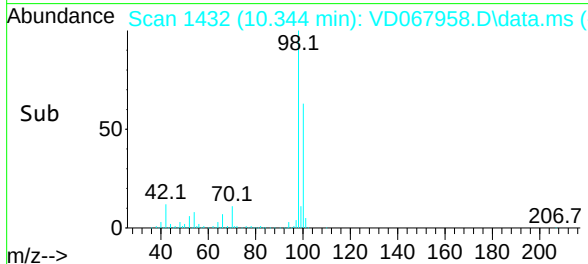
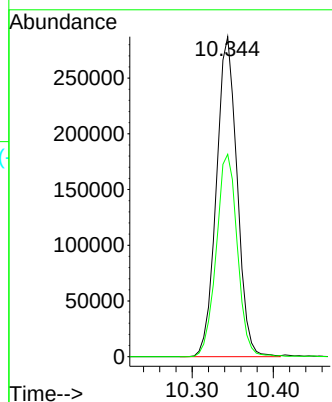
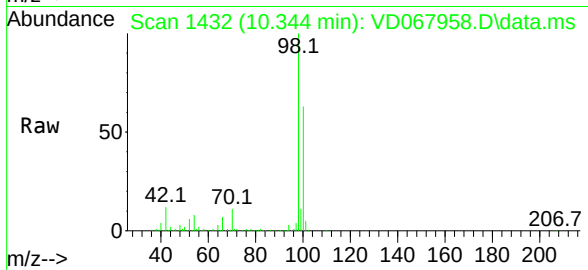




#50  
Toluene-d8  
Concen: 54.05 ug/l  
RT: 10.344 min Scan# 1432  
Delta R.T. 0.000 min  
Lab File: VD067958.D  
Acq: 28 Dec 2020 13:35

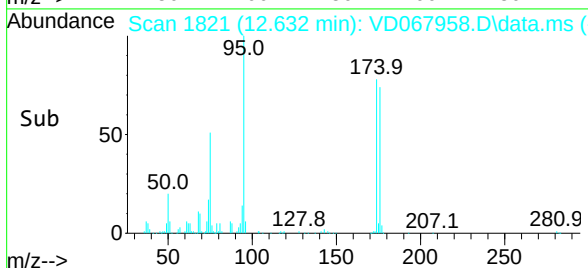
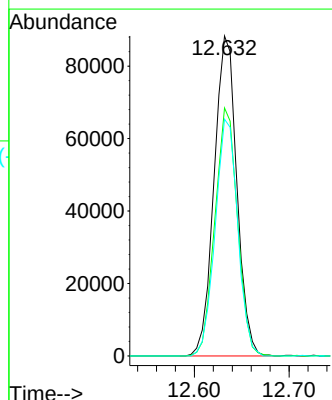
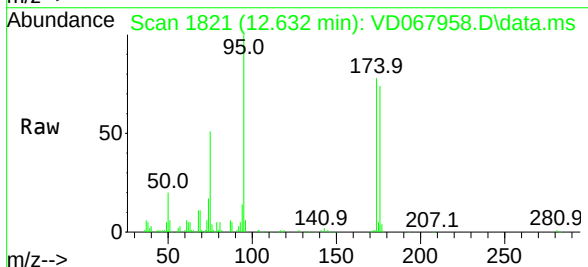
Instrument :  
MSVOA\_D  
ClientSampled :

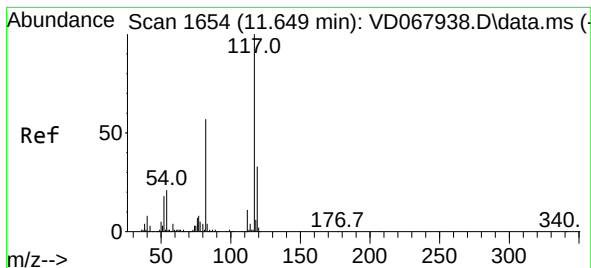
Tgt Ion: 98 Resp: 509225  
Ion Ratio Lower Upper  
98 100  
100 64.4 52.5 78.7



#62  
4-Bromofluorobenzene  
Concen: 45.66 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. 0.000 min  
Lab File: VD067958.D  
Acq: 28 Dec 2020 13:35

Tgt Ion: 95 Resp: 147153  
Ion Ratio Lower Upper  
95 100  
174 76.9 0.0 150.6  
176 73.2 0.0 151.2

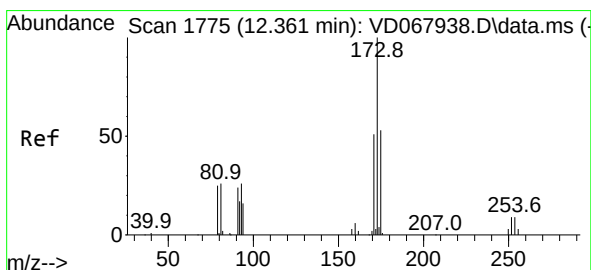
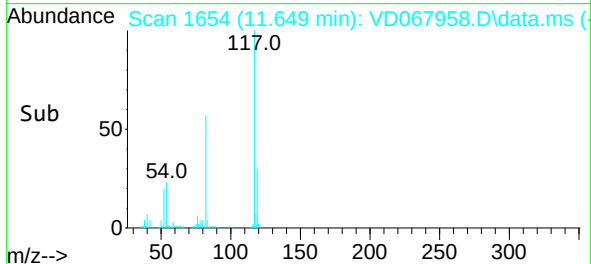
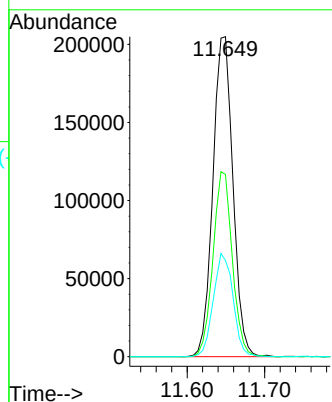
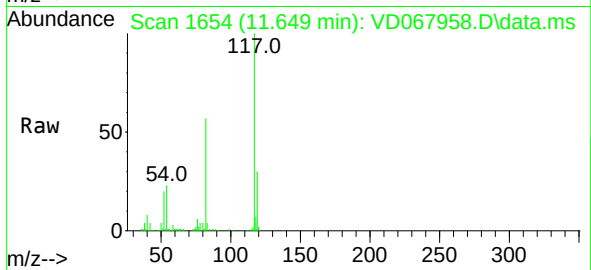




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.649 min Scan# 1654  
Delta R.T. 0.000 min  
Lab File: VD067958.D  
Acq: 28 Dec 2020 13:35

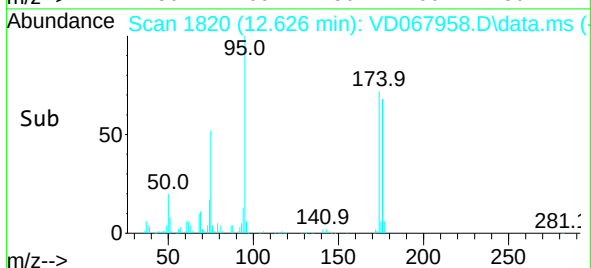
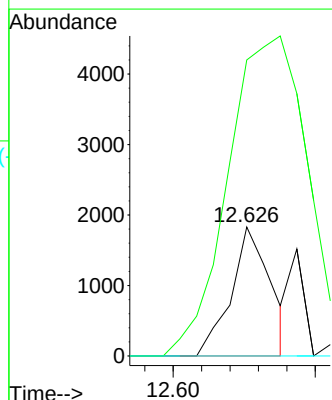
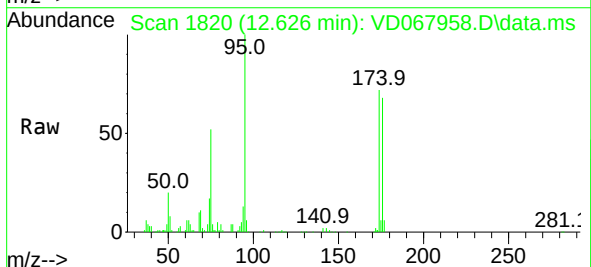
Instrument :  
MSVOA\_D  
ClientSampleId :

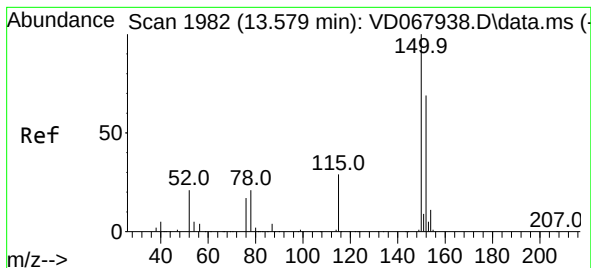
Tgt Ion:117 Resp: 368025  
Ion Ratio Lower Upper  
117 100  
82 56.9 45.4 68.0  
119 30.1 26.7 40.1



#71  
Bromoform  
Concen: 1.23 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.265 min  
Lab File: VD067958.D  
Acq: 28 Dec 2020 13:35

Tgt Ion:173 Resp: 1755  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.6 73.8#  
254 0.0 0.0 0.0

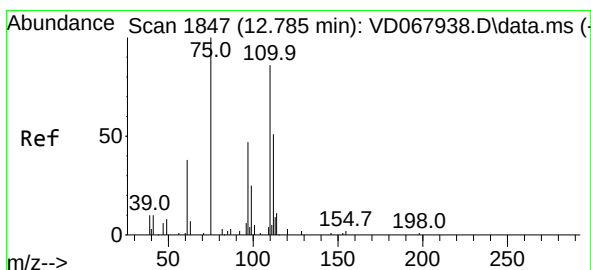
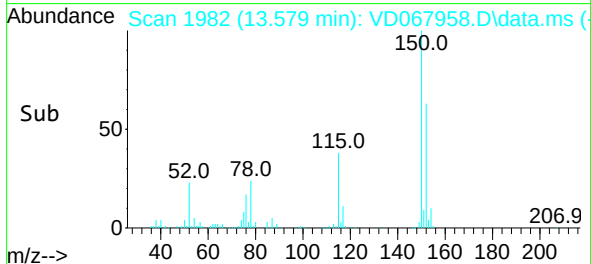
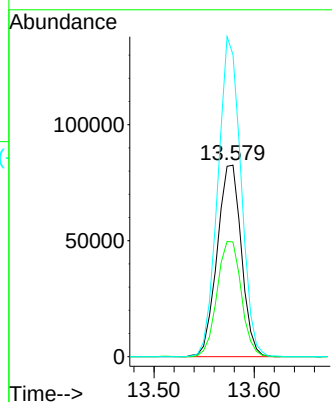
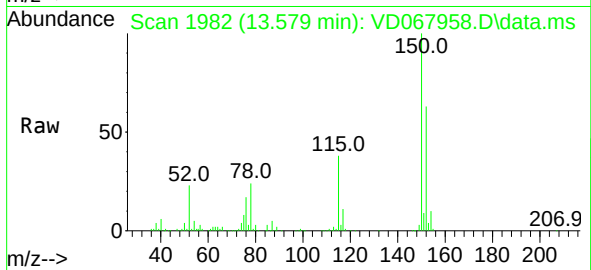




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.579 min Scan# 1982  
Delta R.T. 0.000 min  
Lab File: VD067958.D  
Acq: 28 Dec 2020 13:35

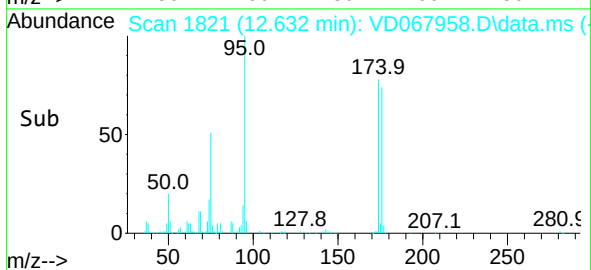
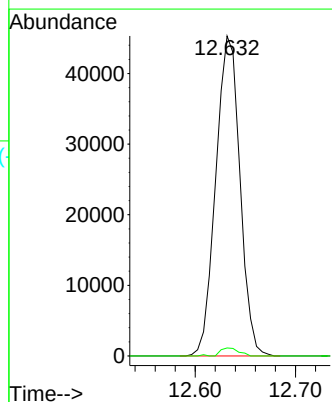
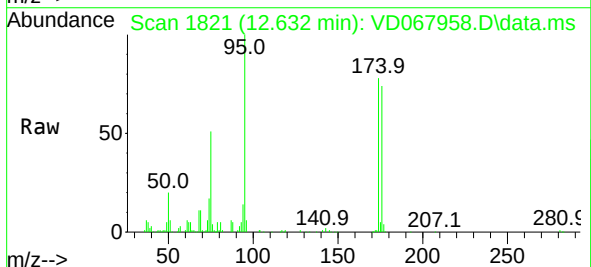
Instrument :  
MSVOA\_D  
ClientSampled :

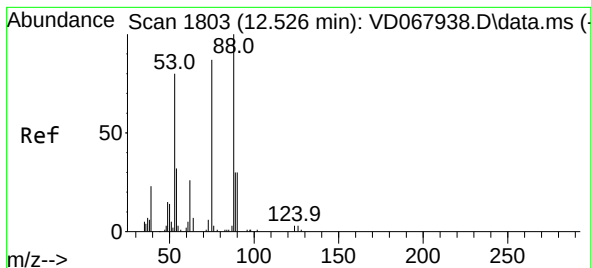
Tgt Ion:152 Resp: 138335  
Ion Ratio Lower Upper  
152 100  
115 60.1 29.3 88.0  
150 159.1 0.0 340.0



#76  
1,2,3-Trichloropropane  
Concen: 64.98 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. -0.153 min  
Lab File: VD067958.D  
Acq: 28 Dec 2020 13:35

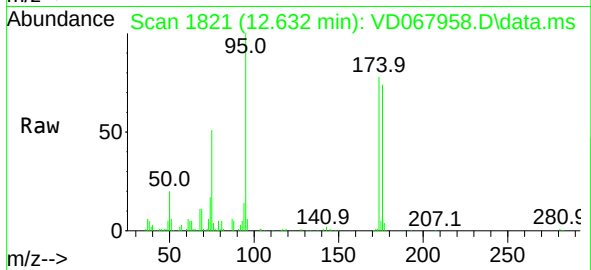
Tgt Ion: 75 Resp: 75681  
Ion Ratio Lower Upper  
75 100  
77 2.0 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 133.20 ug/l  
 RT: 12.632 min Scan# 1821  
 Delta R.T. 0.106 min  
 Lab File: VD067958.D  
 Acq: 28 Dec 2020 13:35

Instrument :  
 MSVOA\_D  
 ClientSampleId :



| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 0.0   | 74.9  | 112.3# |
| 89      | 0.1   | 33.8  | 50.8#  |

