

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052421\  
 Data File : VD069254.D  
 Acq On : 24 May 2021 14:24  
 Operator : VA/SY  
 Sample : M2485-01  
 Misc : 5.82G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CL-01-052121

Quant Time: May 25 00:55:33 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051221S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 13 04:01:29 2021  
 Response via : Initial Calibration

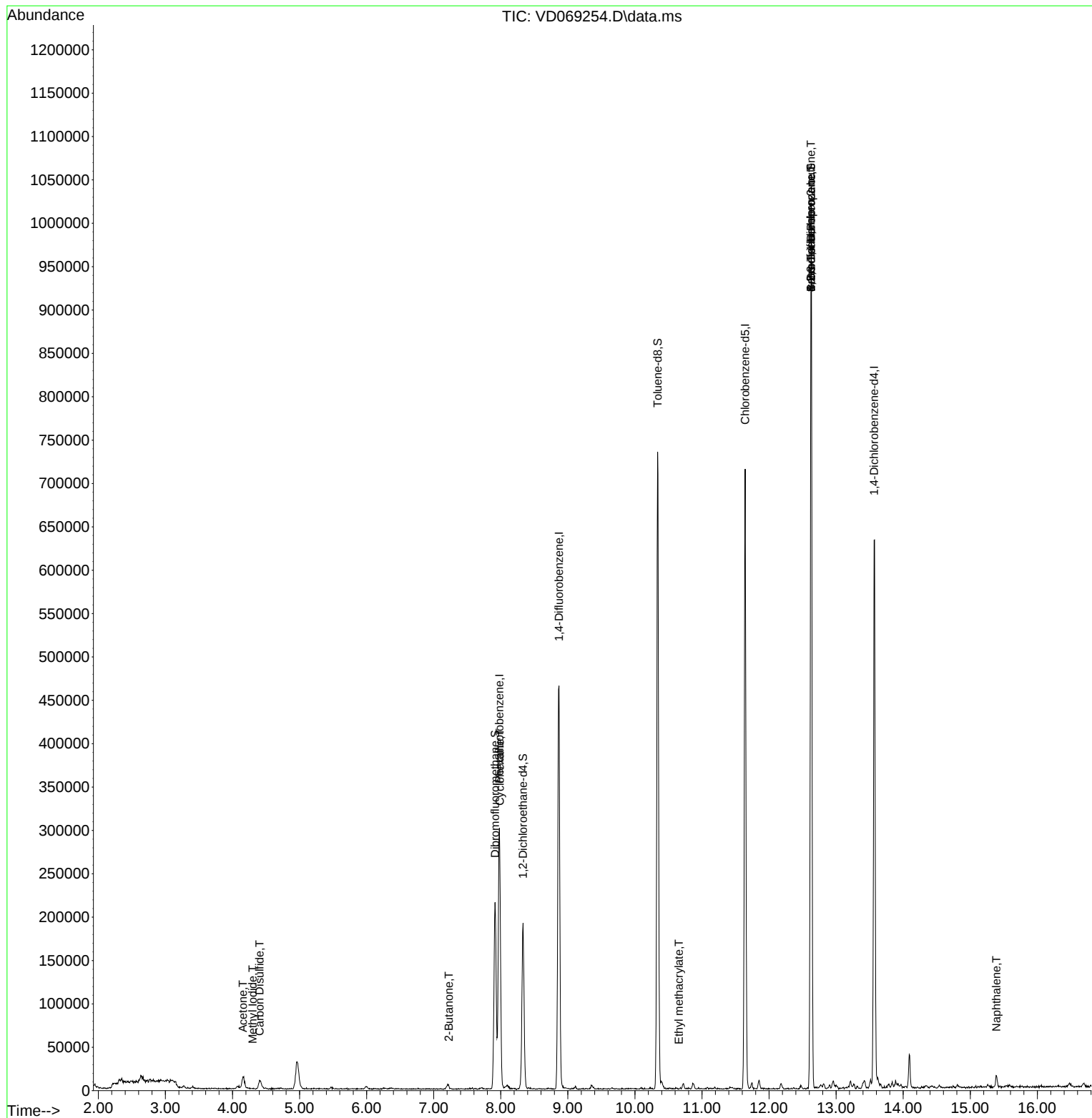
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 7.979  | 168   | 220994   | 50.00    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.867  | 114   | 413424   | 50.00    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.643 | 117   | 395881   | 50.00    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567 | 152   | 172016   | 50.00    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.332  | 65    | 145691   | 65.76    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | =      | 131.52%  |
| 35) Dibromofluoromethane      | 7.914  | 113   | 149121   | 55.43    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | =      | 110.86%  |
| 50) Toluene-d8                | 10.338 | 98    | 512207   | 51.81    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery | =      | 103.62%  |
| 62) 4-Bromofluorobenzene      | 12.626 | 95    | 176418   | 55.46    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery | =      | 110.92%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 10) Methyl Iodide             | 4.303  | 142   | 650      | 1.17     | ug/l # | 50       |
| 11) Tert butyl alcohol        | 5.220  | 59    | 453      | Below    | Cal #  | 73       |
| 16) Acetone                   | 4.156  | 43    | 23936    | 70.54    | ug/l   | 89       |
| 17) Carbon Disulfide          | 4.403  | 76    | 18821    | 2.57     | ug/l   | 96       |
| 25) 2-Butanone                | 7.226  | 43    | 2158     | 4.69     | ug/l   | 93       |
| 31) Cyclohexane               | 7.985  | 56    | 5975     | 1.82     | ug/l # | 41       |
| 56) Ethyl methacrylate        | 10.655 | 69    | 390      | 1.48     | ug/l # | 32       |
| 71) Bromoform                 | 12.626 | 173   | 1676     | 1.04     | ug/l # | 28       |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75    | 92694    | 71.69    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75    | 92694    | 144.80   | ug/l # | 15       |
| 95) Naphthalene               | 15.390 | 128   | 12057    | 4.10     | ug/l   | 97       |
| -----                         |        |       |          |          |        |          |

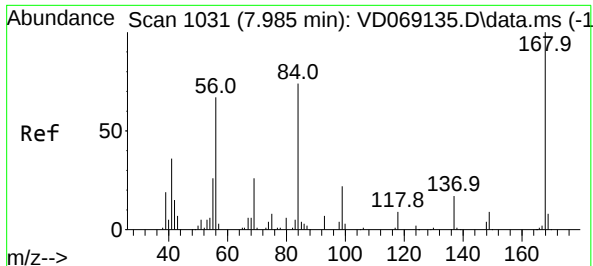
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : M2485-01  
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ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-052121

Quant Time: May 25 00:55:33 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051221S.M  
Quant Title : SW846 8260  
QLast Update : Thu May 13 04:01:29 2021  
Response via : Initial Calibration

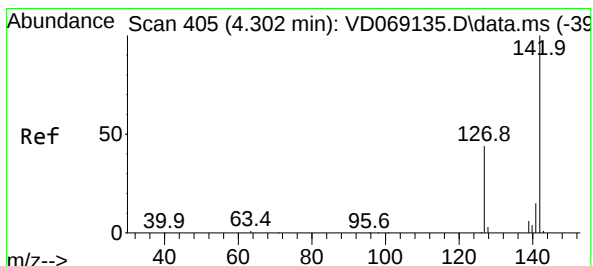
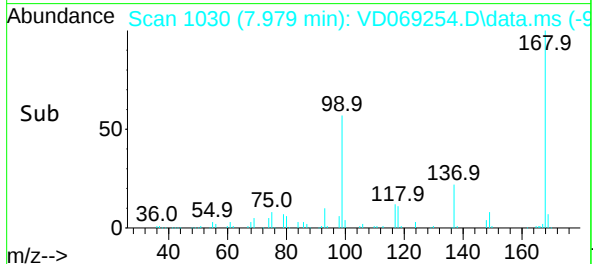
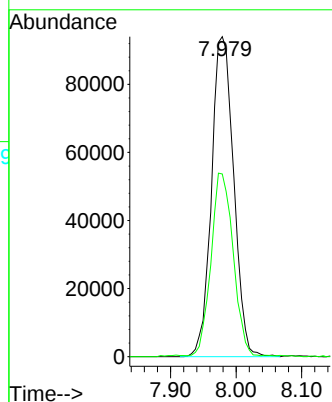
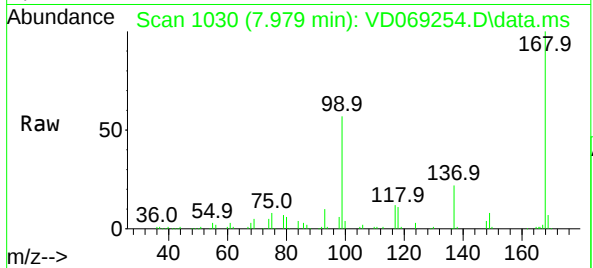




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD069254.D  
Acq: 24 May 2021 14:24

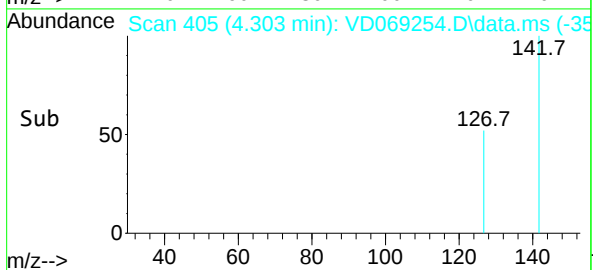
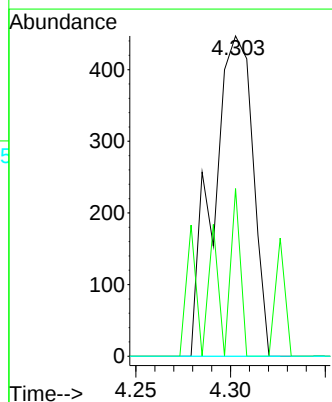
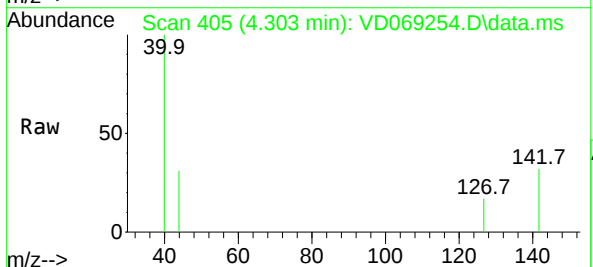
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-052121

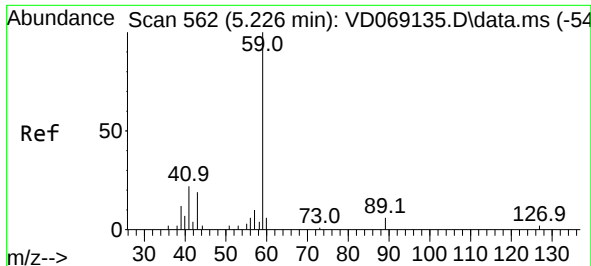
Tgt Ion:168 Resp: 220994  
Ion Ratio Lower Upper  
168 100  
99 56.8 47.2 70.8



#10  
Methyl Iodide  
Concen: 1.17 ug/l  
RT: 4.303 min Scan# 405  
Delta R.T. 0.001 min  
Lab File: VD069254.D  
Acq: 24 May 2021 14:24

Tgt Ion:142 Resp: 650  
Ion Ratio Lower Upper  
142 100  
127 10.0 37.3 55.9#  
141 0.0 12.2 18.4#



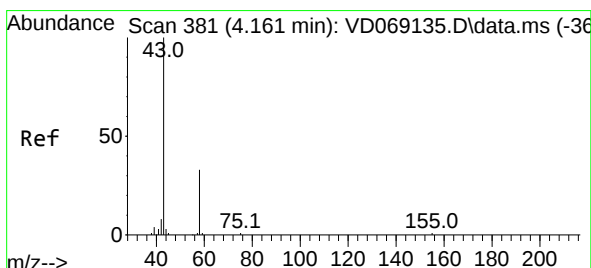
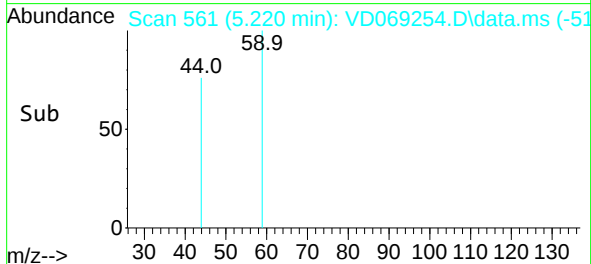
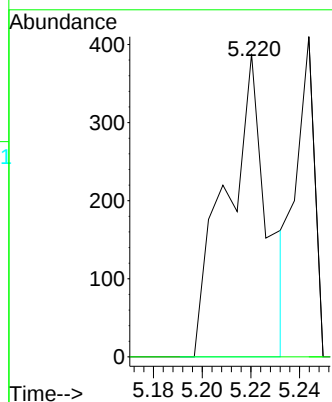
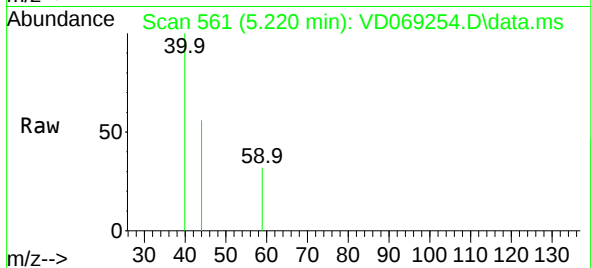


#11

Tert butyl alcohol  
Concen: Below Cal  
RT: 5.220 min Scan# 561  
Delta R.T. -0.006 min  
Lab File: VD069254.D  
Acq: 24 May 2021 14:24

Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-052121

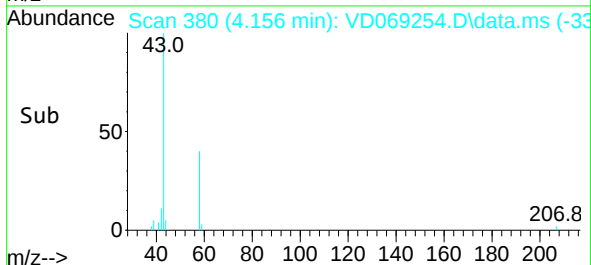
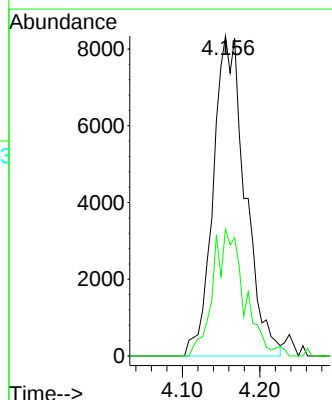
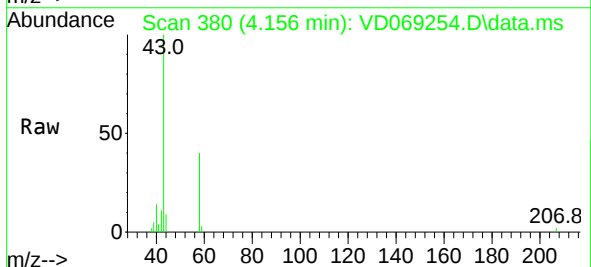
Tgt Ion: 59 Resp: 453  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

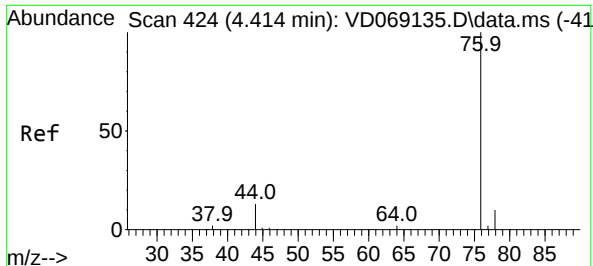


#16

Acetone  
Concen: 70.54 ug/l  
RT: 4.156 min Scan# 380  
Delta R.T. -0.006 min  
Lab File: VD069254.D  
Acq: 24 May 2021 14:24

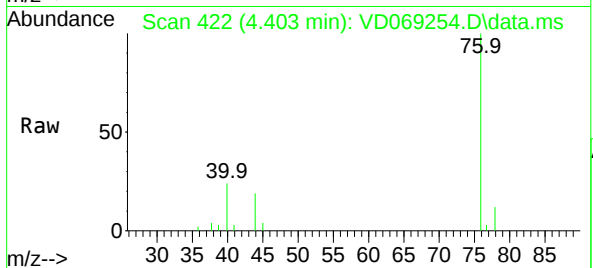
Tgt Ion: 43 Resp: 23936  
Ion Ratio Lower Upper  
43 100  
58 39.6 26.7 40.1



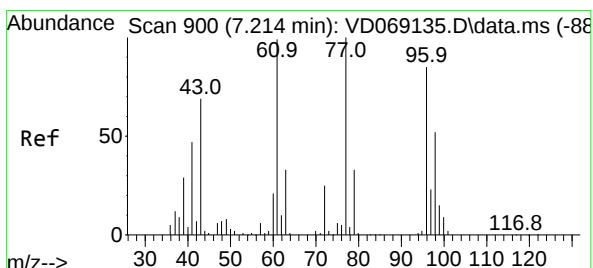
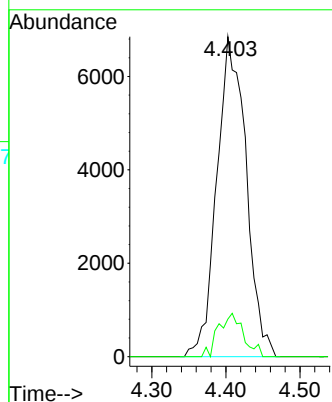
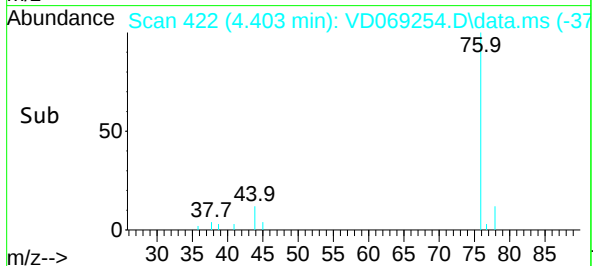


#17  
Carbon Disulfide  
Concen: 2.57 ug/l  
RT: 4.403 min Scan# 422  
Delta R.T. -0.012 min  
Lab File: VD069254.D  
Acq: 24 May 2021 14:24

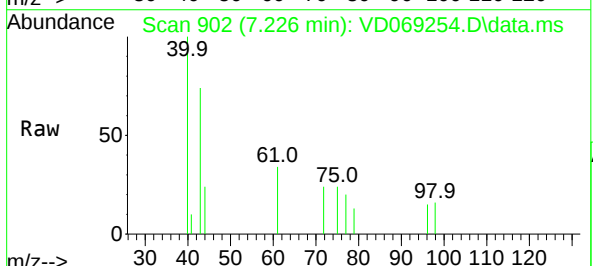
Instrument :  
MSVOA\_D  
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CL-01-052121



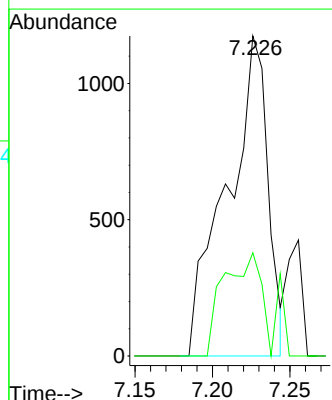
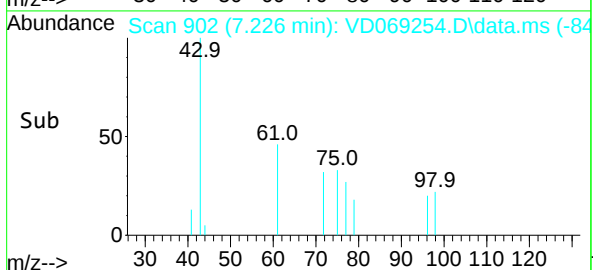
Tgt Ion: 76 Resp: 18821  
Ion Ratio Lower Upper  
76 100  
78 11.7 8.1 12.1

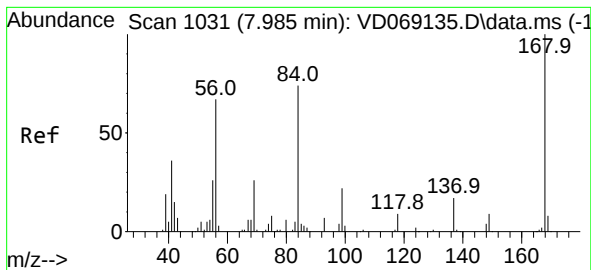


#25  
2-Butanone  
Concen: 4.69 ug/l  
RT: 7.226 min Scan# 902  
Delta R.T. 0.012 min  
Lab File: VD069254.D  
Acq: 24 May 2021 14:24



Tgt Ion: 43 Resp: 2158  
Ion Ratio Lower Upper  
43 100  
72 32.3 29.1 43.7

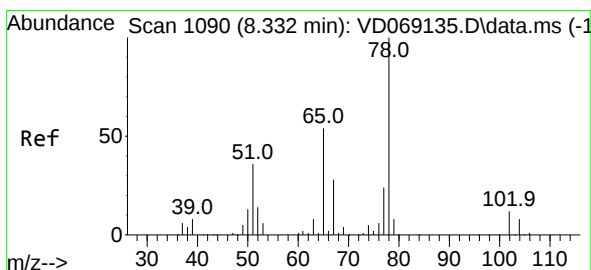
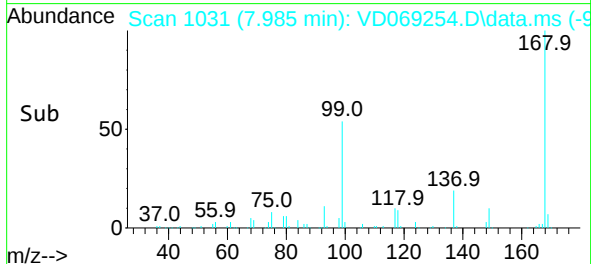
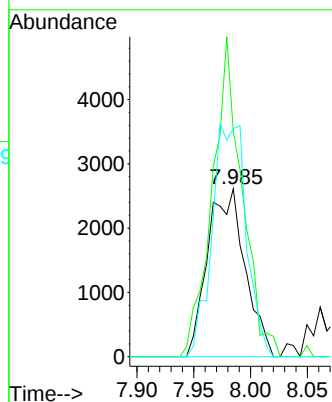
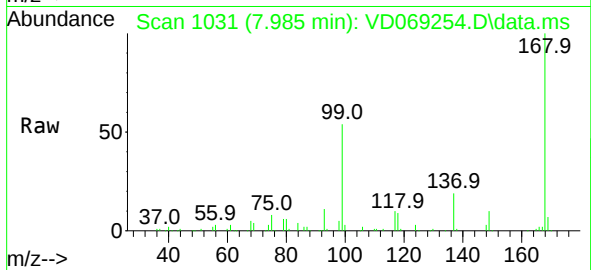




#31  
Cyclohexane  
Concen: 1.82 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. 0.000 min  
Lab File: VD069254.D  
Acq: 24 May 2021 14:24

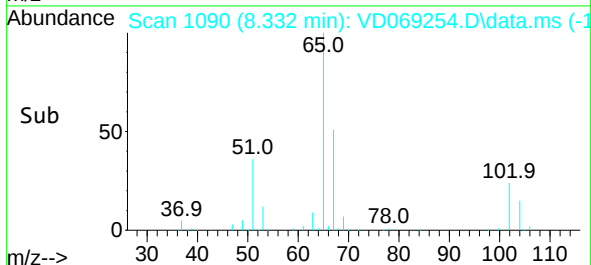
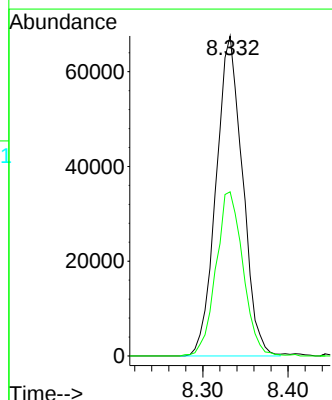
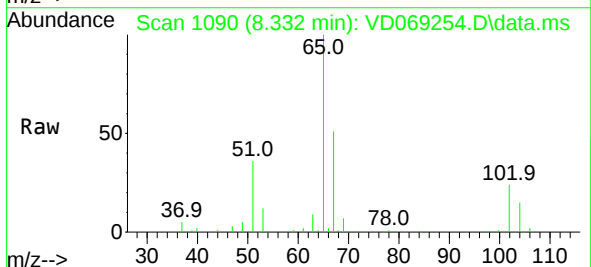
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-052121

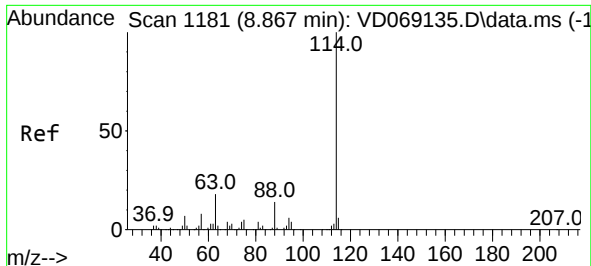
Tgt Ion: 56 Resp: 5975  
Ion Ratio Lower Upper  
56 100  
69 134.0 30.6 46.0#  
84 135.8 88.0 132.0#



#33  
1,2-Dichloroethane-d4  
Concen: 65.76 ug/l  
RT: 8.332 min Scan# 1090  
Delta R.T. 0.000 min  
Lab File: VD069254.D  
Acq: 24 May 2021 14:24

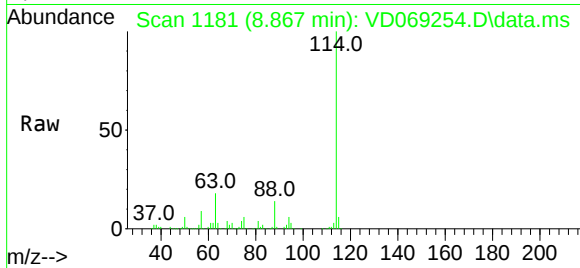
Tgt Ion: 65 Resp: 145691  
Ion Ratio Lower Upper  
65 100  
67 52.3 0.0 108.0



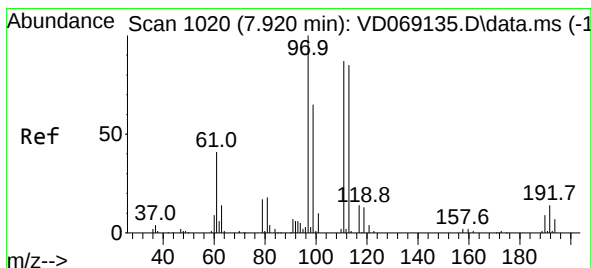
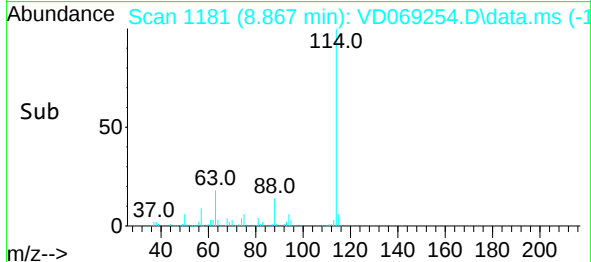
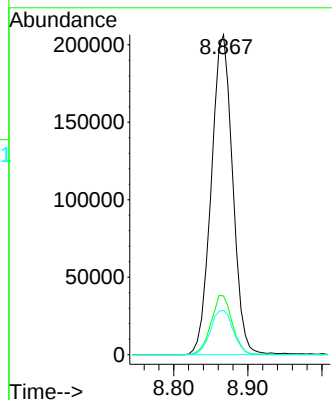


#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.867 min Scan# 1181  
Delta R.T. 0.000 min  
Lab File: VD069254.D  
Acq: 24 May 2021 14:24

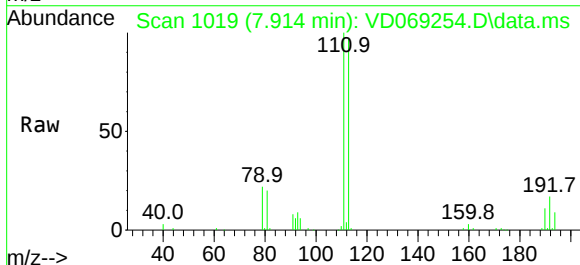
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-052121



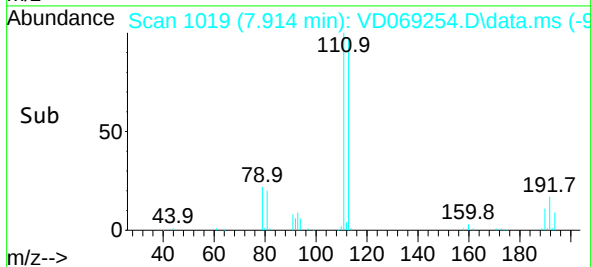
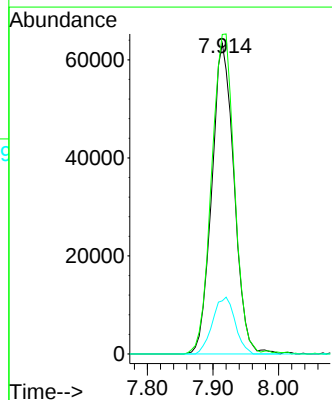
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 18.3  | 0.0   | 36.4  |
| 88      | 13.8  | 0.0   | 28.2  |

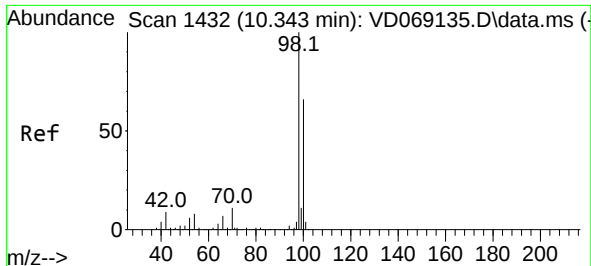


#35  
Dibromofluoromethane  
Concen: 55.43 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. -0.006 min  
Lab File: VD069254.D  
Acq: 24 May 2021 14:24



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 106.4 | 80.6  | 120.8 |
| 192     | 18.5  | 14.8  | 22.2  |

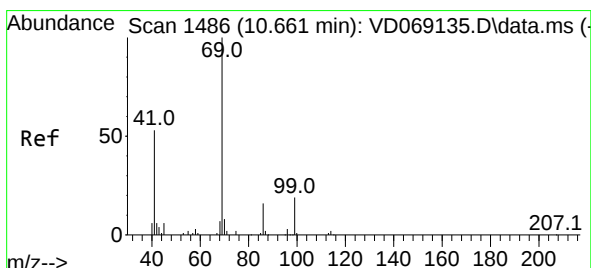
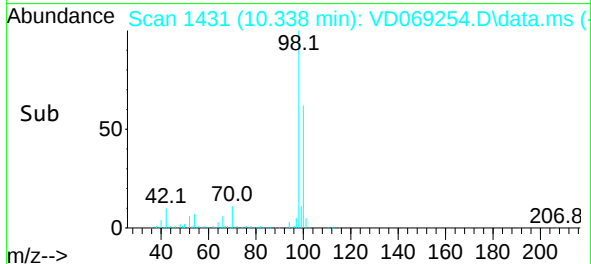
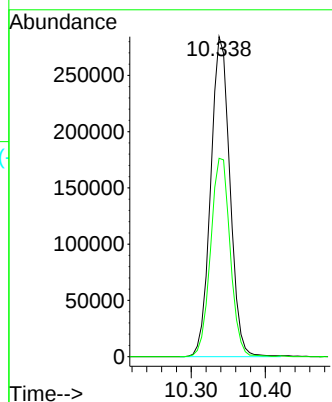
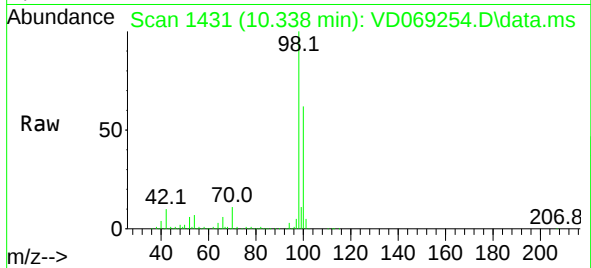




#50  
Toluene-d8  
Concen: 51.81 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.006 min  
Lab File: VD069254.D  
Acq: 24 May 2021 14:24

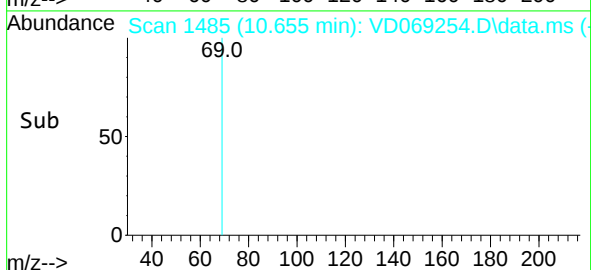
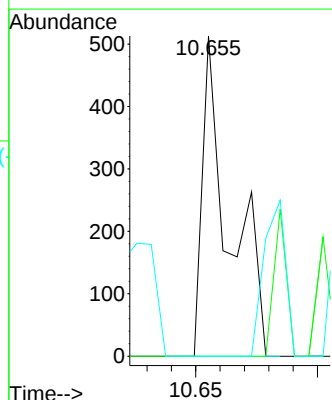
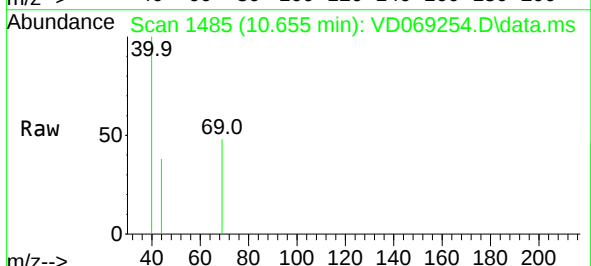
Instrument :  
MSVOA\_D  
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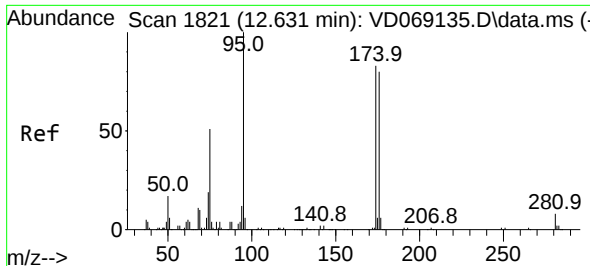
Tgt Ion: 98 Resp: 512207  
Ion Ratio Lower Upper  
98 100  
100 63.3 51.8 77.8



#56  
Ethyl methacrylate  
Concen: 1.48 ug/l  
RT: 10.655 min Scan# 1485  
Delta R.T. -0.006 min  
Lab File: VD069254.D  
Acq: 24 May 2021 14:24

Tgt Ion: 69 Resp: 390  
Ion Ratio Lower Upper  
69 100  
41 0.0 42.2 63.2#  
39 0.0 26.3 39.5#

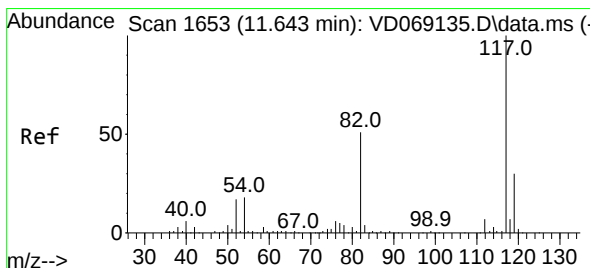
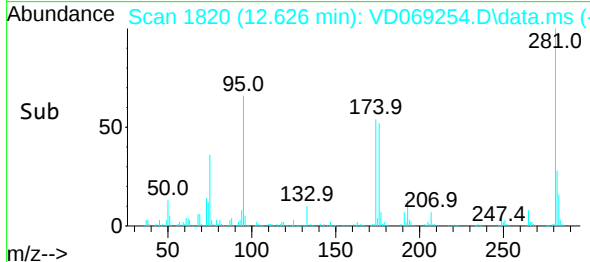
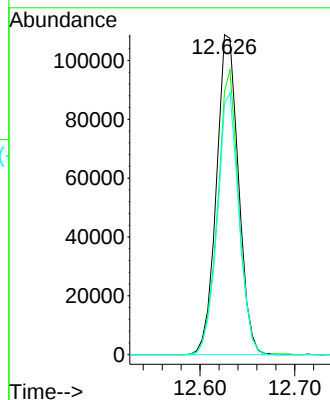
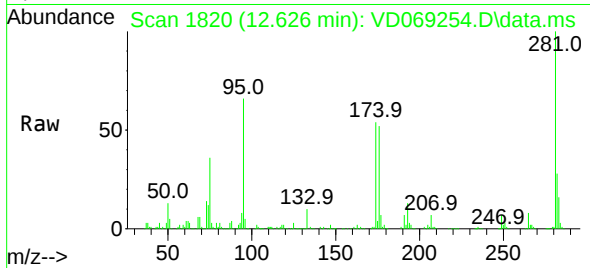




#62  
4-Bromofluorobenzene  
Concen: 55.46 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.006 min  
Lab File: VD069254.D  
Acq: 24 May 2021 14:24

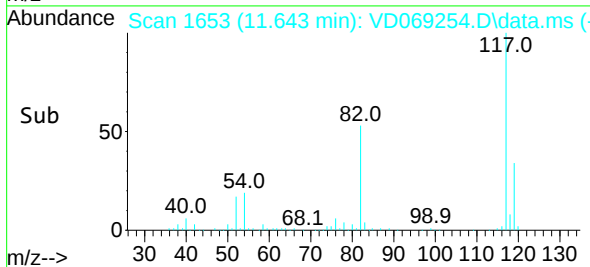
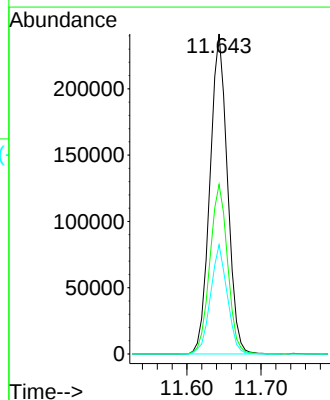
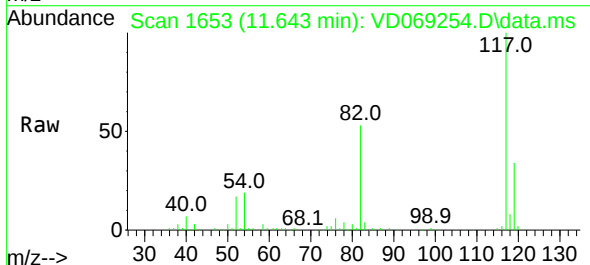
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-052121

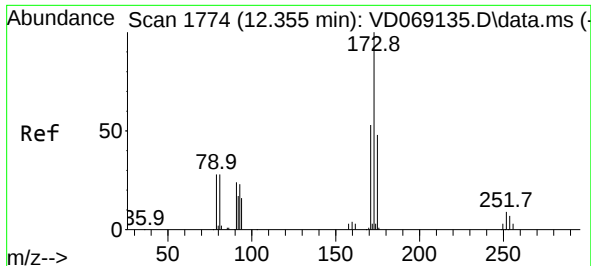
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Ion Ratio Lower Upper  
95 100  
174 84.8 0.0 171.8  
176 80.2 0.0 165.4



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.643 min Scan# 1653  
Delta R.T. 0.000 min  
Lab File: VD069254.D  
Acq: 24 May 2021 14:24

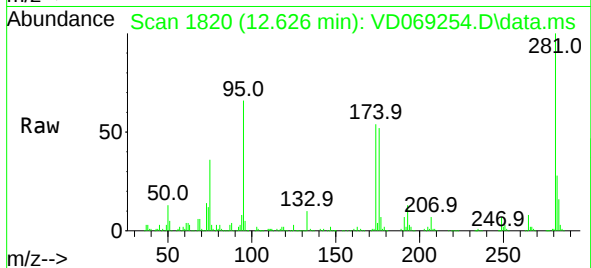
Tgt Ion: 117 Resp: 395881  
Ion Ratio Lower Upper  
117 100  
82 53.0 40.5 60.7  
119 34.1 24.2 36.4



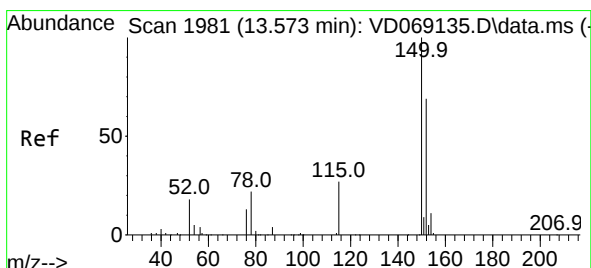
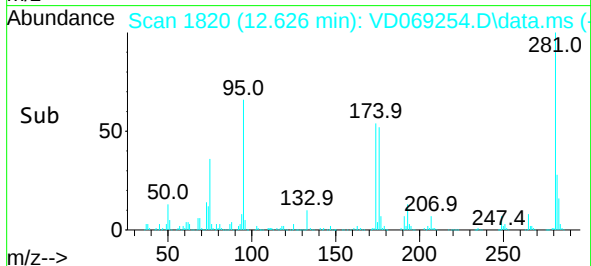
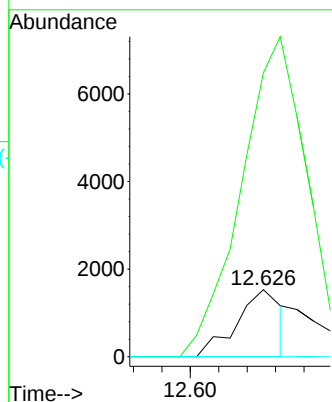


#71  
Bromoform  
Concen: 1.04 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.271 min  
Lab File: VD069254.D  
Acq: 24 May 2021 14:24

Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-052121

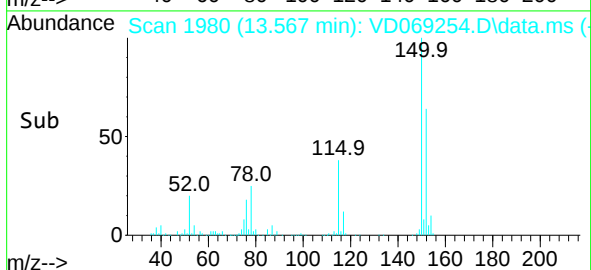
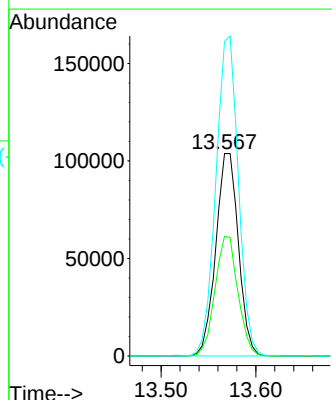
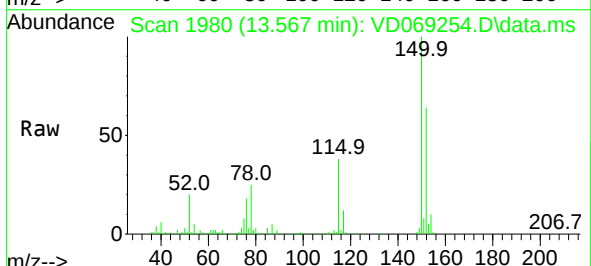


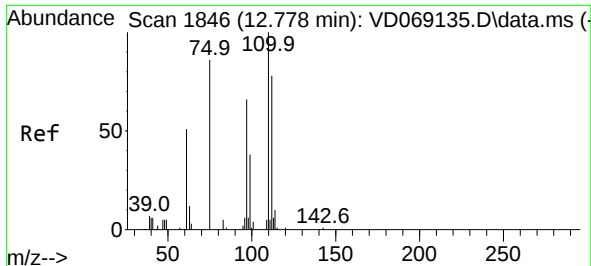
Tgt Ion:173 Resp: 1676  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.3 73.0#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. -0.006 min  
Lab File: VD069254.D  
Acq: 24 May 2021 14:24

Tgt Ion:152 Resp: 172016  
Ion Ratio Lower Upper  
152 100  
115 59.9 29.9 89.8  
150 157.4 0.0 350.2

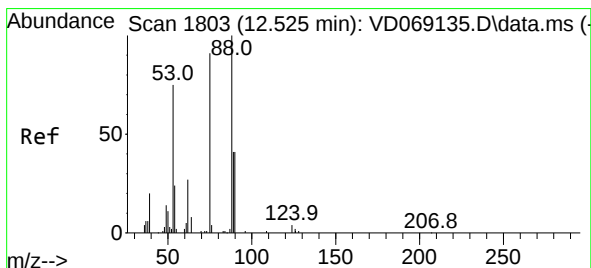
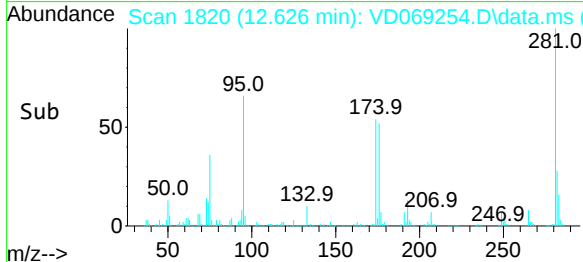
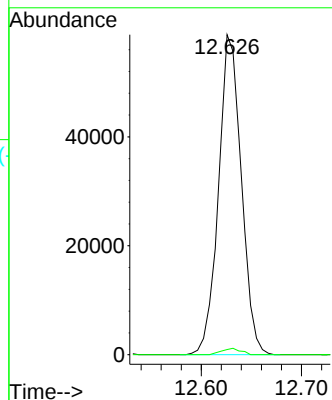
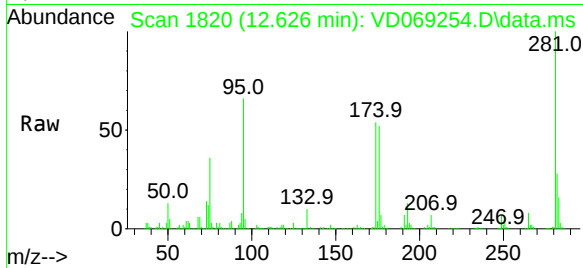




#76  
1,2,3-Trichloropropane  
Concen: 71.69 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.153 min  
Lab File: VD069254.D  
Acq: 24 May 2021 14:24

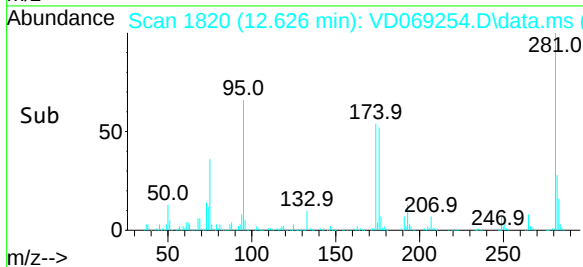
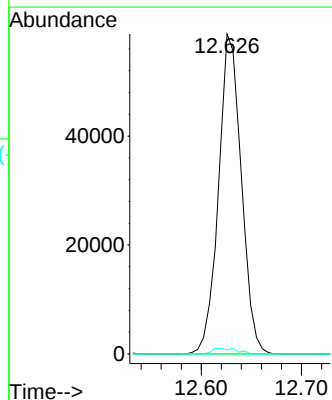
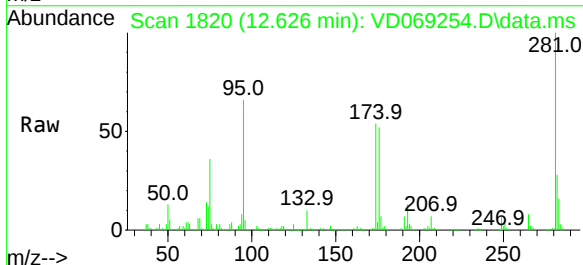
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-052121

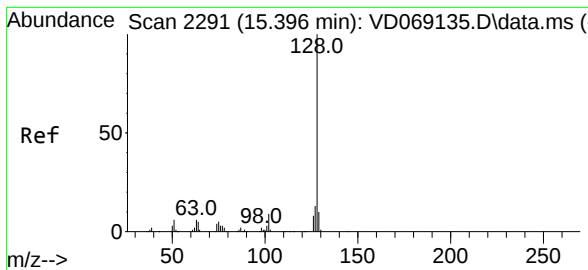
Tgt Ion: 75 Resp: 92694  
Ion Ratio Lower Upper  
75 100  
77 1.7 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 144.80 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.100 min  
Lab File: VD069254.D  
Acq: 24 May 2021 14:24

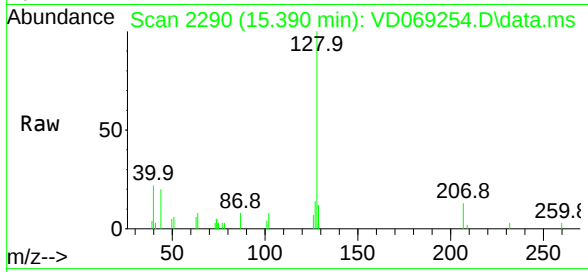
Tgt Ion: 75 Resp: 92694  
Ion Ratio Lower Upper  
75 100  
53 0.0 70.0 105.0#  
89 1.9 40.2 60.2#





#95  
Naphthalene  
Concen: 4.10 ug/l  
RT: 15.390 min Scan# 2290  
Delta R.T. -0.006 min  
Lab File: VD069254.D  
Acq: 24 May 2021 14:24

Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-052121



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 12057 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 14.7  | 10.5  | 15.7  |
| 129       | 10.2  | 8.9   | 13.3  |

