

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD123020\  
 Data File : VD067975.D  
 Acq On : 30 Dec 2020 14:43  
 Operator : VA/SY  
 Sample : L5242-04  
 Misc : 6.16G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 31 00:15:36 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      | 7.979  | 168  | 225512   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.867  | 114  | 460424   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.644 | 117  | 424582   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.573 | 152  | 175956   | 50.00 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 8.332  | 65    | 164209   | 67.43    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 134.86% |
| 35) Dibromofluoromethane    | 7.914  | 113   | 160216   | 55.23    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 110.46% |
| 50) Toluene-d8              | 10.344 | 98    | 585915   | 53.73    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 107.46% |
| 62) 4-Bromofluorobenzene    | 12.632 | 95    | 169365   | 45.41    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 90.82%  |

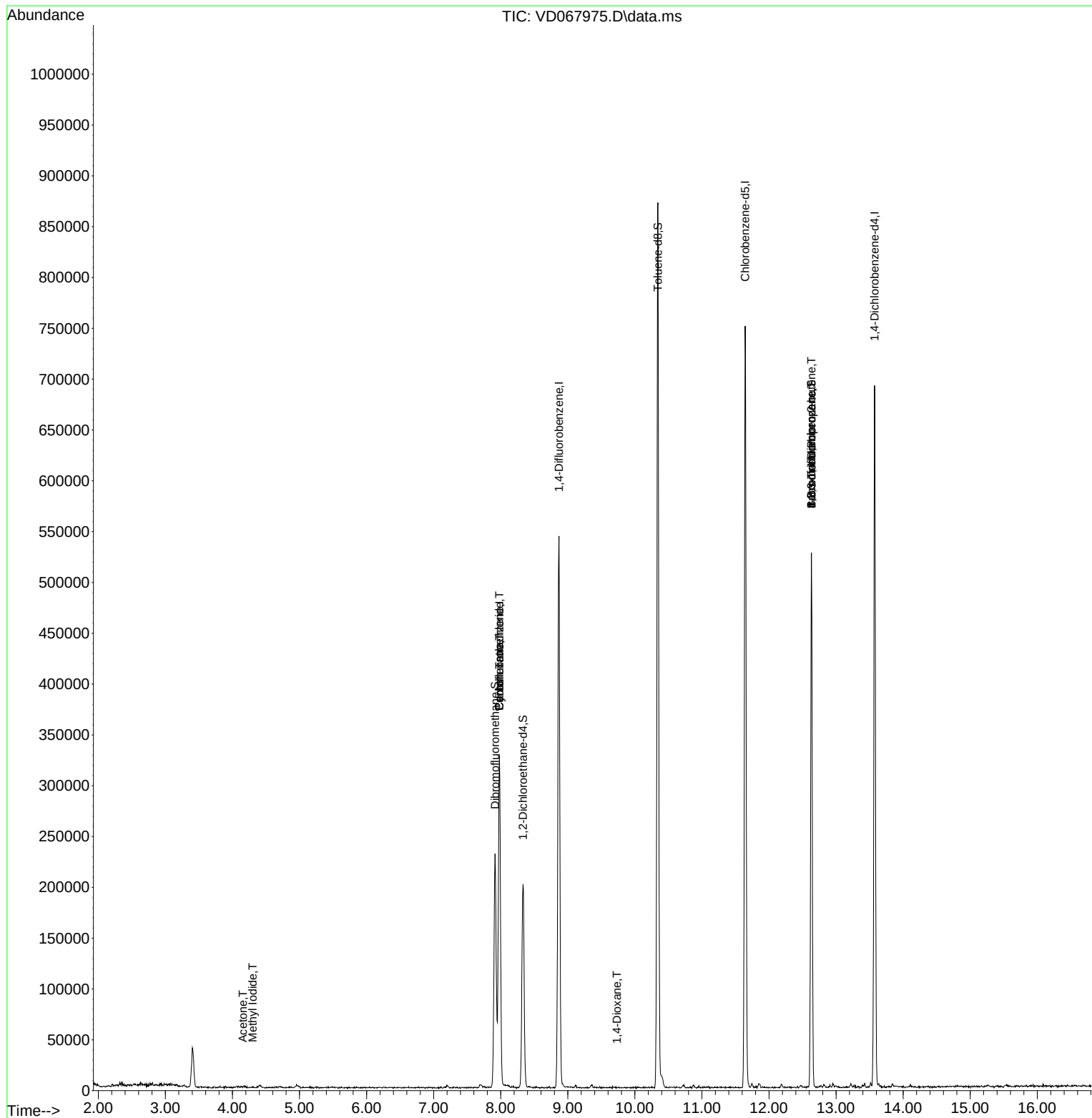
| Target Compounds              | R.T.   | QIon | Response | Conc      | Units  | Qvalue |
|-------------------------------|--------|------|----------|-----------|--------|--------|
| 5) Bromomethane               | 2.779  | 94   | 806      | Below Cal | #      | 58     |
| 10) Methyl Iodide             | 4.303  | 142  | 283      | 3.95      | ug/l # | 77     |
| 11) Tert butyl alcohol        | 5.232  | 59   | 66       | Below Cal | #      | 74     |
| 16) Acetone                   | 4.156  | 43   | 1547     | 3.33      | ug/l # | 78     |
| 20) Methylene Chloride        | 4.956  | 84   | 736      | Below Cal | #      | 74     |
| 31) Cyclohexane               | 7.979  | 56   | 6649     | 1.34      | ug/l # | 21     |
| 38) Carbon Tetrachloride      | 7.979  | 117  | 25157    | 5.38      | ug/l # | 19     |
| 49) 1,4-Dioxane               | 9.732  | 88   | 59       | 3.08      | ug/l # | 24     |
| 71) Bromoform                 | 12.632 | 173  | 2296     | 1.39      | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane    | 12.632 | 75   | 89553    | 60.45     | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.632 | 75   | 89553    | 123.91    | ug/l # | 12     |

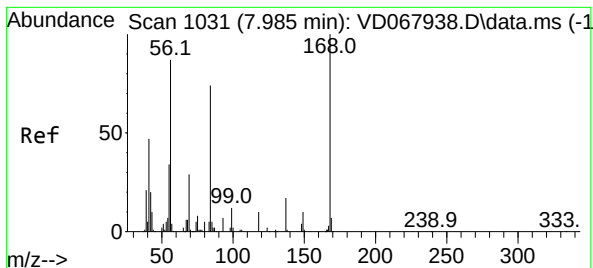
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD123020\  
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Sample : L5242-04  
Misc : 6.16G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Dec 31 00:15:36 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

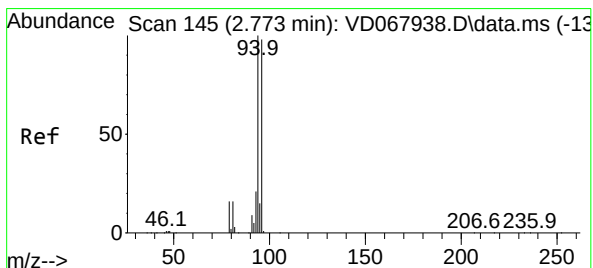
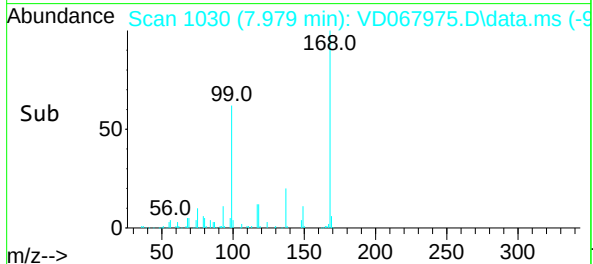
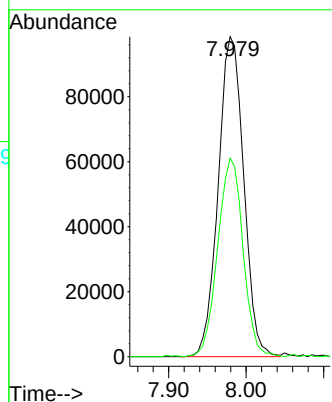
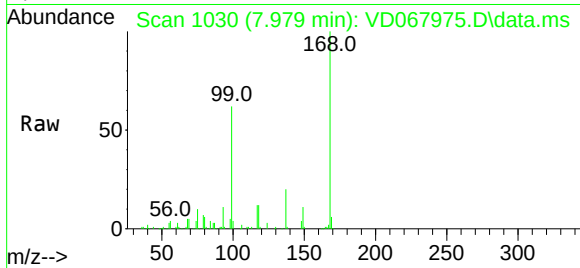




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD067975.D  
Acq: 30 Dec 2020 14:43

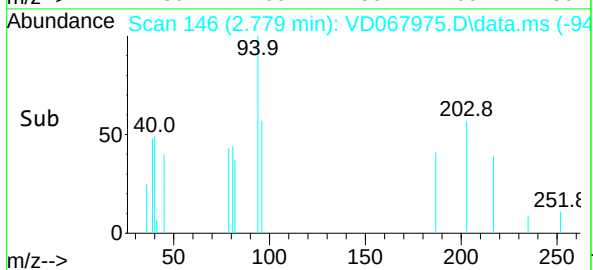
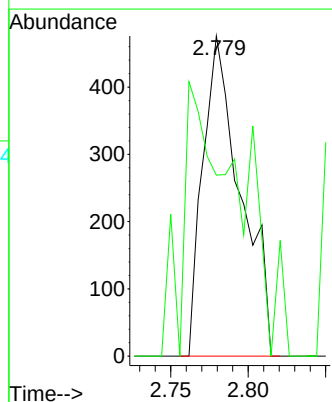
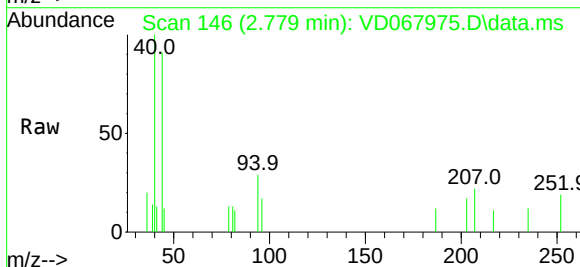
Instrument :  
MSVOA\_D  
ClientSampleId :

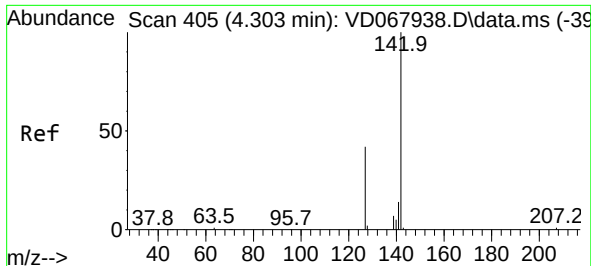
Tgt Ion:168 Resp: 225512  
Ion Ratio Lower Upper  
168 100  
99 61.9 48.0 72.0



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.779 min Scan# 146  
Delta R.T. 0.006 min  
Lab File: VD067975.D  
Acq: 30 Dec 2020 14:43

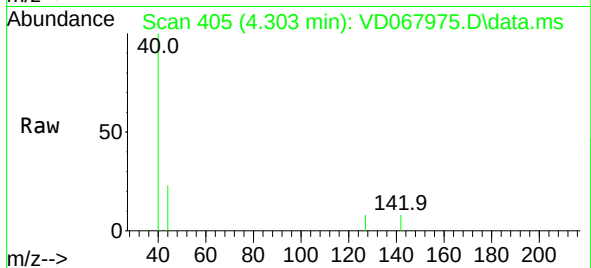
Tgt Ion: 94 Resp: 806  
Ion Ratio Lower Upper  
94 100  
96 56.5 78.0 117.0#



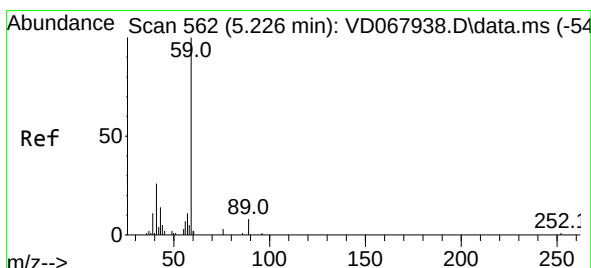
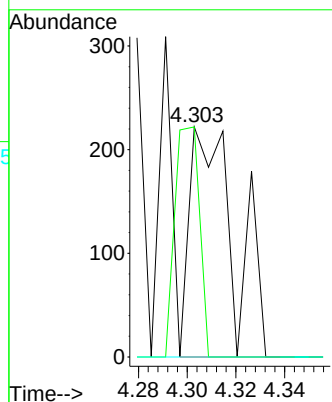
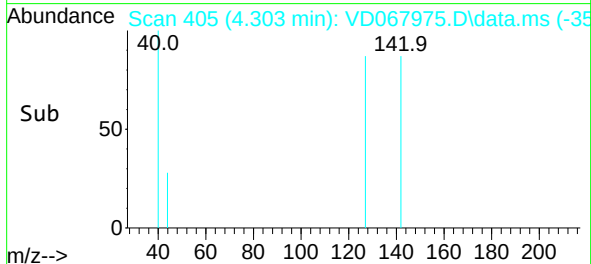


#10  
Methyl Iodide  
Concen: 3.95 ug/l  
RT: 4.303 min Scan# 405  
Delta R.T. -0.000 min  
Lab File: VD067975.D  
Acq: 30 Dec 2020 14:43

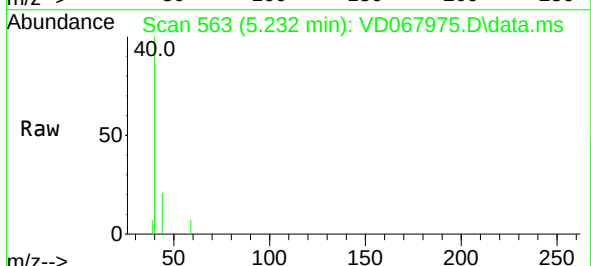
Instrument :  
MSVOA\_D  
ClientSampleId :



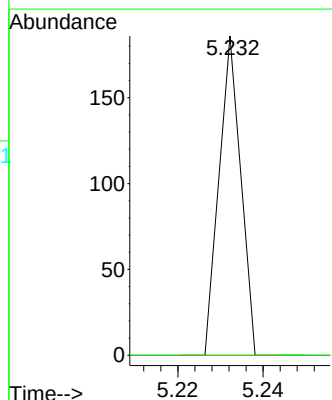
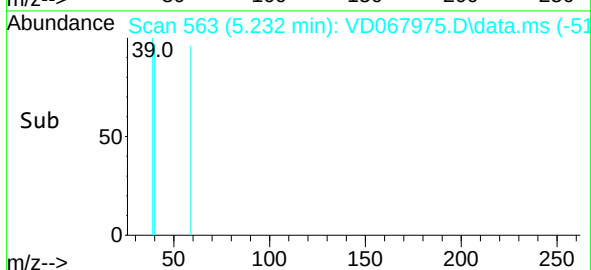
Tgt Ion:142 Resp: 283  
Ion Ratio Lower Upper  
142 100  
127 55.1 34.4 51.6#  
141 0.0 11.8 17.8#

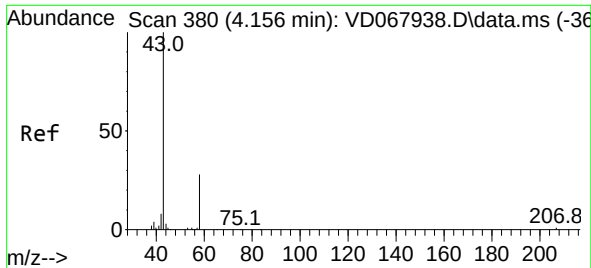


#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.232 min Scan# 563  
Delta R.T. 0.006 min  
Lab File: VD067975.D  
Acq: 30 Dec 2020 14:43



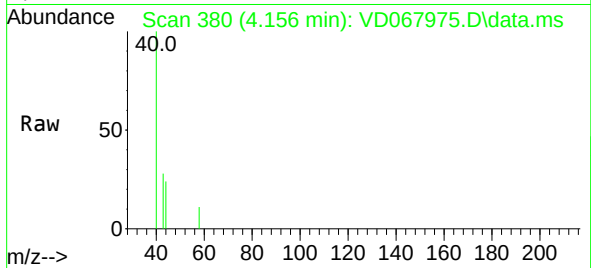
Tgt Ion: 59 Resp: 66  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.4 11.2#



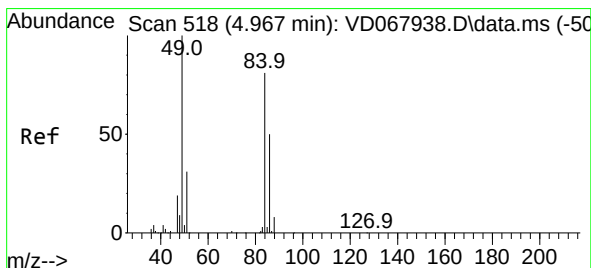
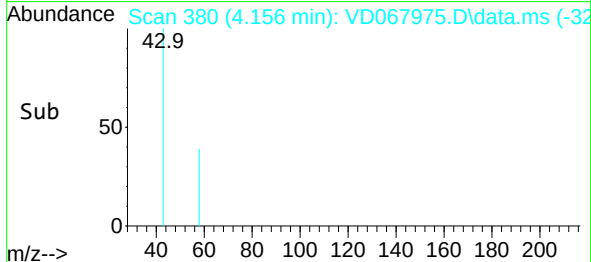
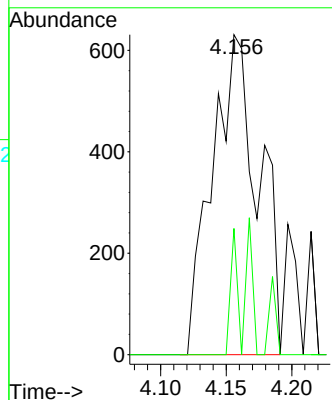


#16  
Acetone  
Concen: 3.33 ug/l  
RT: 4.156 min Scan# 380  
Delta R.T. 0.000 min  
Lab File: VD067975.D  
Acq: 30 Dec 2020 14:43

Instrument :  
MSVOA\_D  
ClientSampled :

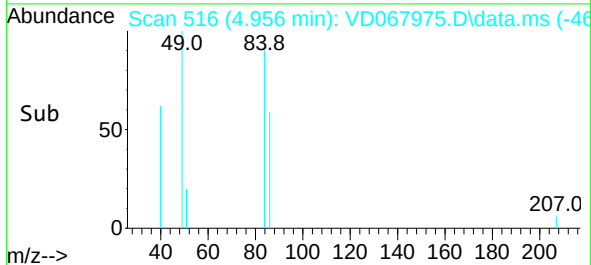
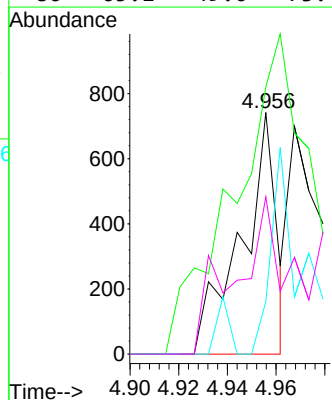
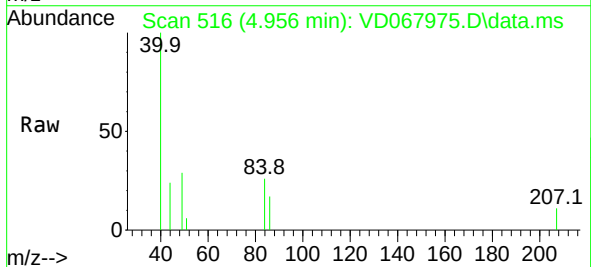


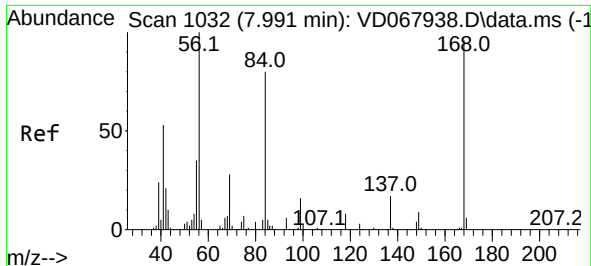
Tgt Ion: 43 Resp: 1547  
Ion Ratio Lower Upper  
43 100  
58 39.5 22.3 33.5#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.956 min Scan# 516  
Delta R.T. -0.011 min  
Lab File: VD067975.D  
Acq: 30 Dec 2020 14:43

Tgt Ion: 84 Resp: 736  
Ion Ratio Lower Upper  
84 100  
49 82.7 98.3 147.5#  
51 21.7 30.3 45.5#  
86 65.1 49.0 73.4





#31

Cyclohexane

Concen: 1.34 ug/l

RT: 7.979 min Scan# 1030

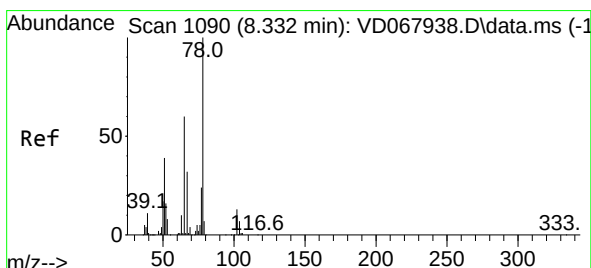
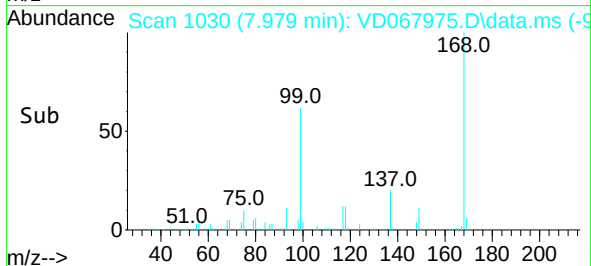
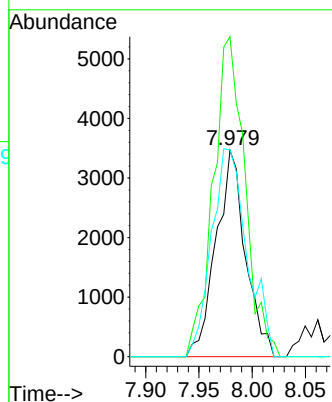
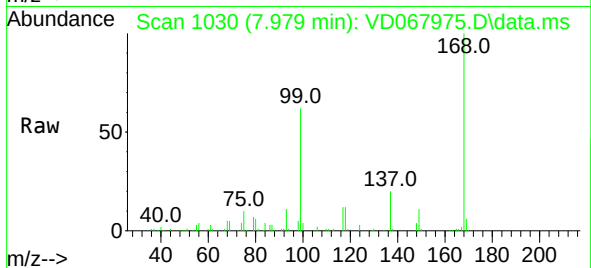
Delta R.T. -0.012 min

Lab File: VD067975.D

Acq: 30 Dec 2020 14:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 56    | Resp: | 6649  |
| Ion Ratio | Lower | Upper |       |
| 56        | 100   |       |       |
| 69        | 155.0 | 22.7  | 34.1# |
| 84        | 100.2 | 64.2  | 96.4# |

Instrument :  
MSVOA\_D  
ClientSampleId :



#33

1,2-Dichloroethane-d4

Concen: 67.43 ug/l

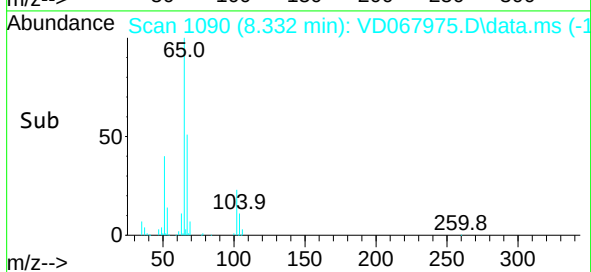
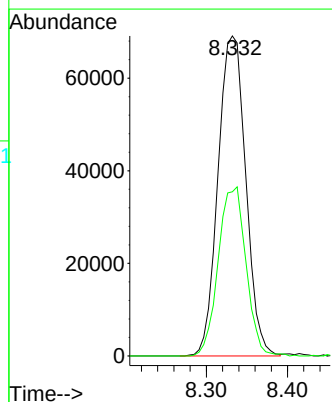
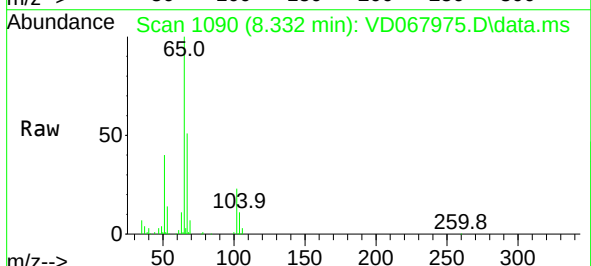
RT: 8.332 min Scan# 1090

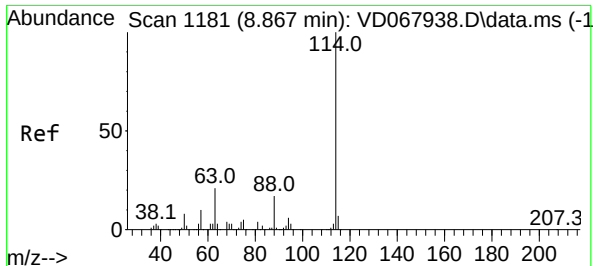
Delta R.T. 0.000 min

Lab File: VD067975.D

Acq: 30 Dec 2020 14:43

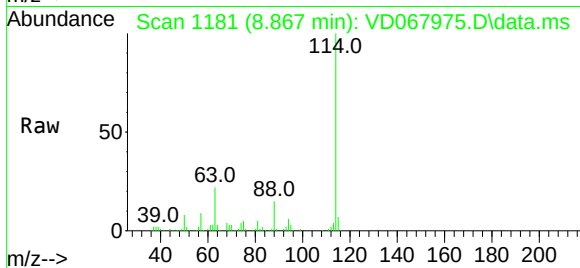
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 65    | Resp: | 164209 |
| Ion Ratio | Lower | Upper |        |
| 65        | 100   |       |        |
| 67        | 52.8  | 0.0   | 110.0  |



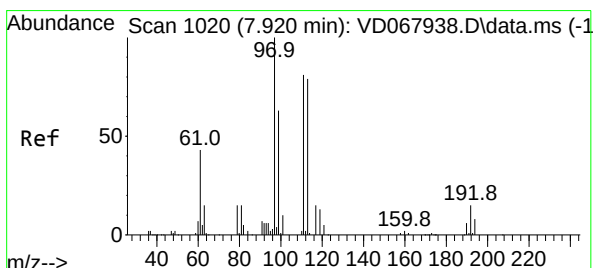
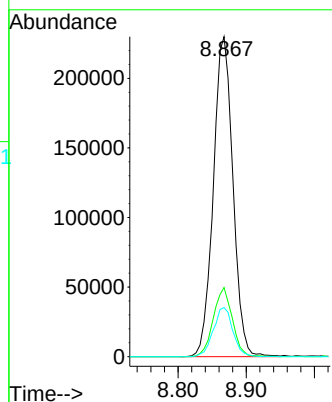
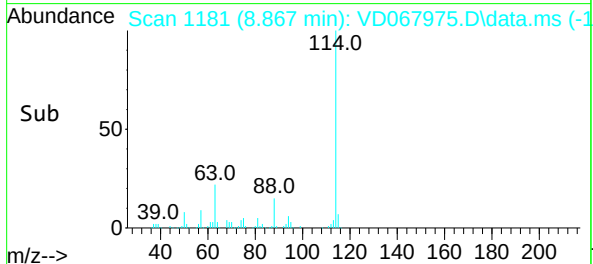


#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.867 min Scan# 1181  
Delta R.T. 0.000 min  
Lab File: VD067975.D  
Acq: 30 Dec 2020 14:43

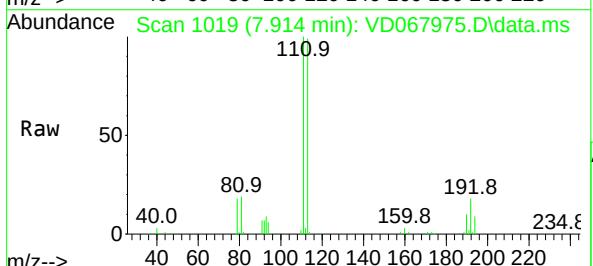
Instrument :  
MSVOA\_D  
ClientSampleId :



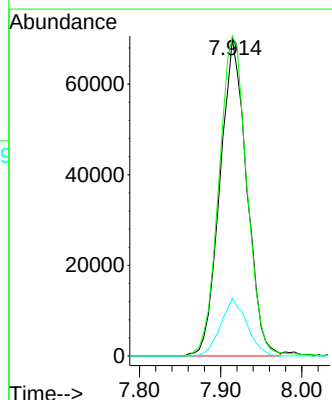
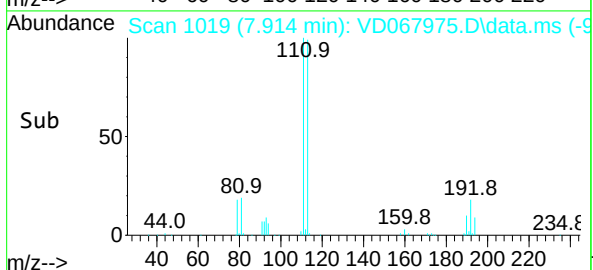
Tgt Ion:114 Resp: 460424  
Ion Ratio Lower Upper  
114 100  
63 21.6 0.0 41.4  
88 15.4 0.0 33.2

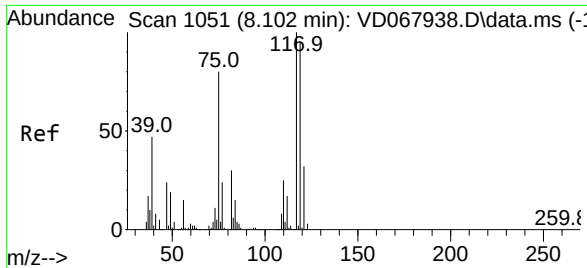


#35  
Dibromofluoromethane  
Concen: 55.23 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. -0.006 min  
Lab File: VD067975.D  
Acq: 30 Dec 2020 14:43



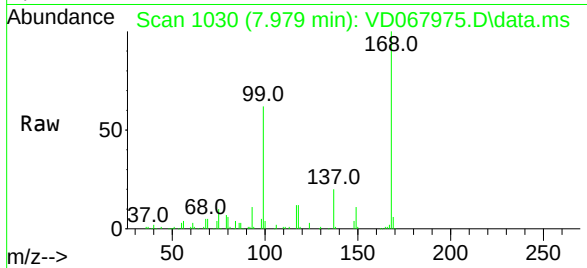
Tgt Ion:113 Resp: 160216  
Ion Ratio Lower Upper  
113 100  
111 105.5 79.3 118.9  
192 17.7 14.5 21.7



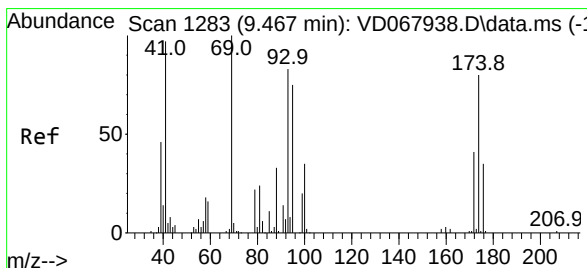
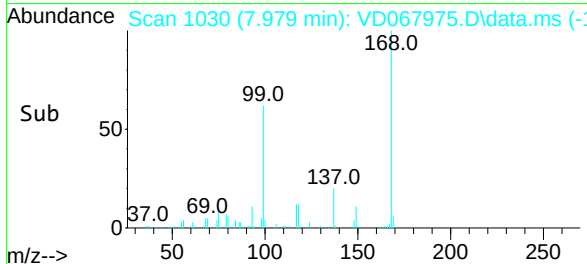
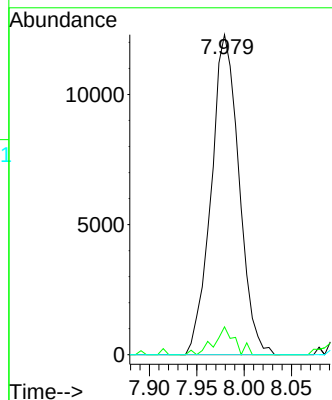


#38  
Carbon Tetrachloride  
Concen: 5.38 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.123 min  
Lab File: VD067975.D  
Acq: 30 Dec 2020 14:43

Instrument :  
MSVOA\_D  
ClientSampleId :

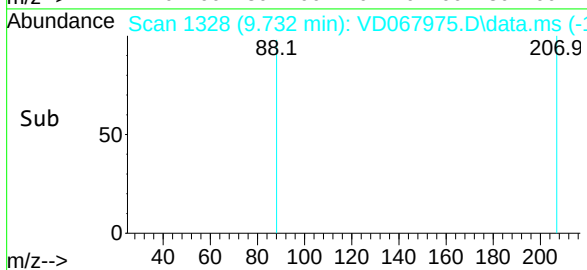
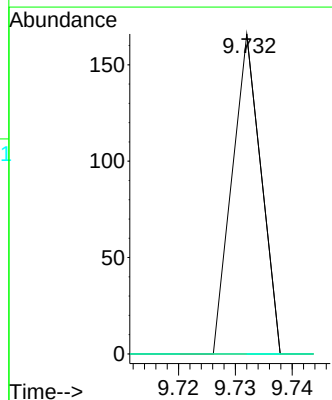
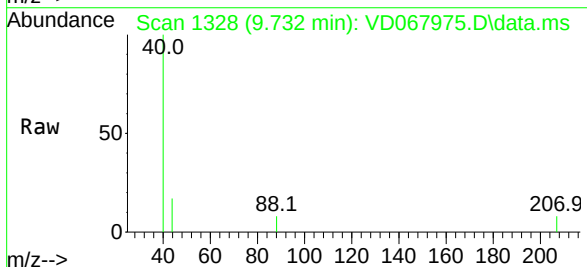


Tgt Ion: 117 Resp: 25157  
Ion Ratio Lower Upper  
117 100  
119 8.7 76.2 114.4#  
121 0.0 25.9 38.9#

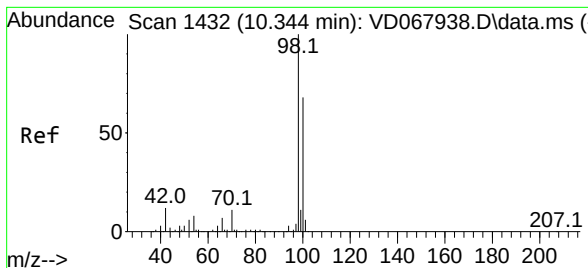


#49  
1,4-Dioxane  
Concen: 3.08 ug/l  
RT: 9.732 min Scan# 1328  
Delta R.T. 0.265 min  
Lab File: VD067975.D  
Acq: 30 Dec 2020 14:43

Tgt Ion: 88 Resp: 59  
Ion Ratio Lower Upper  
88 100  
43 0.0 27.3 40.9#  
58 0.0 54.8 82.2#



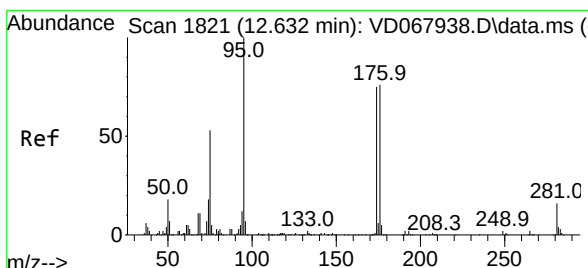
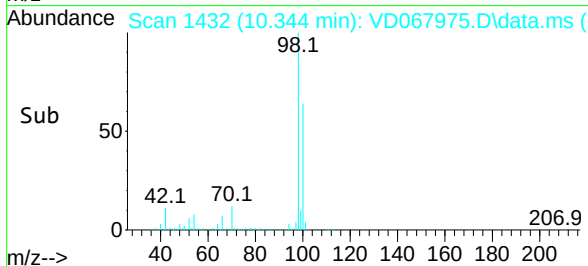
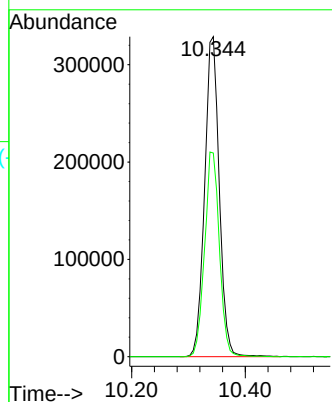
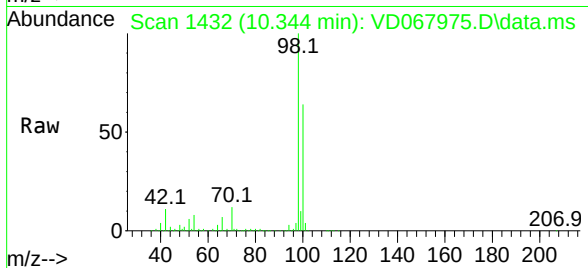




#50  
Toluene-d8  
Concen: 53.73 ug/l  
RT: 10.344 min Scan# 1432  
Delta R.T. 0.000 min  
Lab File: VD067975.D  
Acq: 30 Dec 2020 14:43

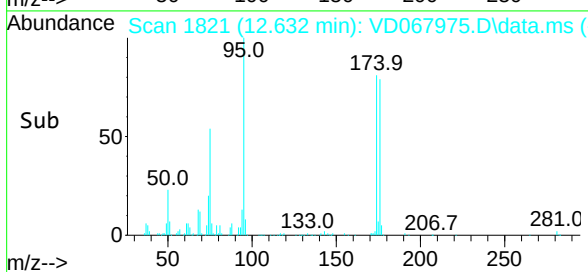
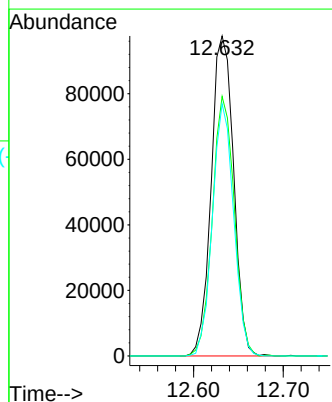
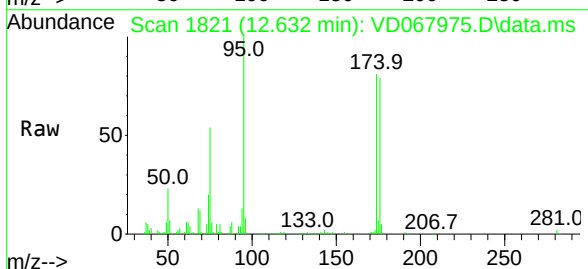
Instrument :  
MSVOA\_D  
ClientSampleId :

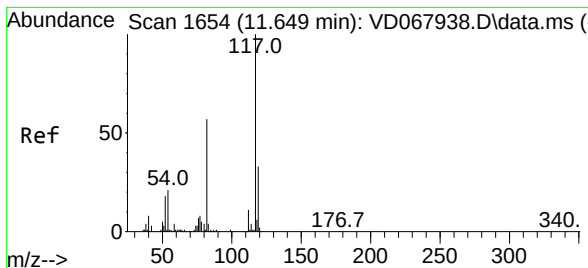
Tgt Ion: 98 Resp: 585915  
Ion Ratio Lower Upper  
98 100  
100 64.6 52.5 78.7



#62  
4-Bromofluorobenzene  
Concen: 45.41 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. 0.000 min  
Lab File: VD067975.D  
Acq: 30 Dec 2020 14:43

Tgt Ion: 95 Resp: 169365  
Ion Ratio Lower Upper  
95 100  
174 79.1 0.0 150.6  
176 74.6 0.0 151.2

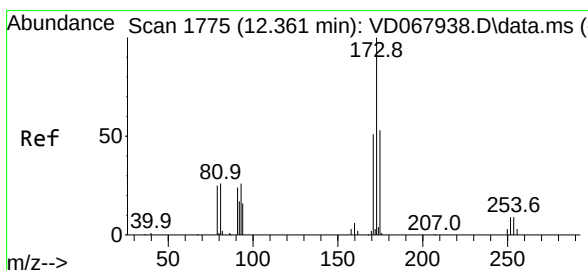
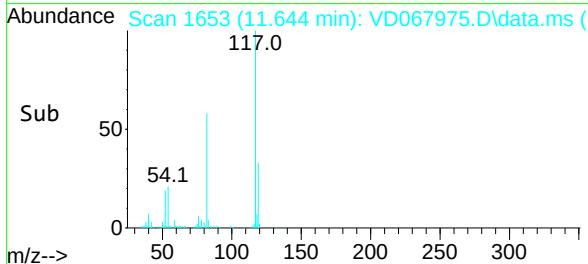
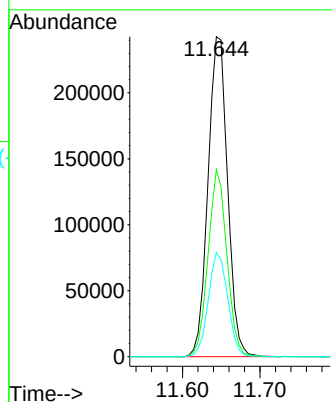
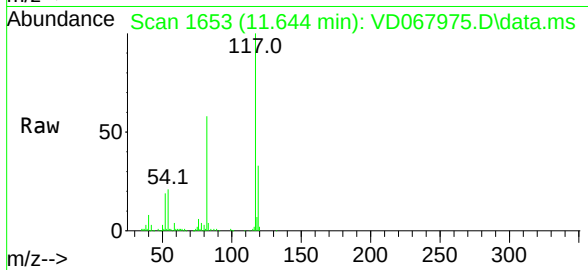




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.644 min Scan# 1653  
Delta R.T. -0.006 min  
Lab File: VD067975.D  
Acq: 30 Dec 2020 14:43

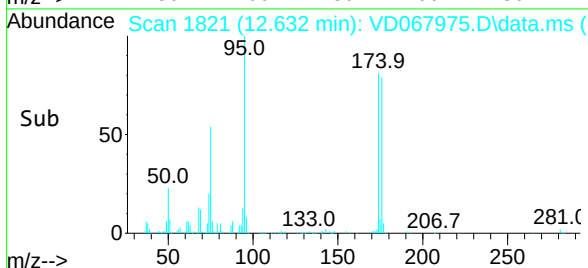
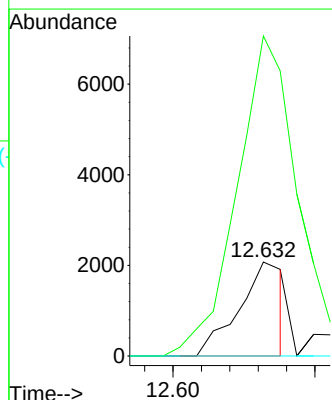
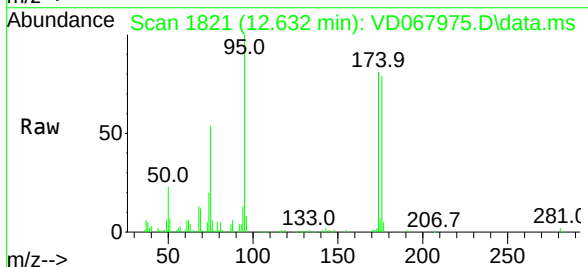
Instrument :  
MSVOA\_D  
ClientSampleId :

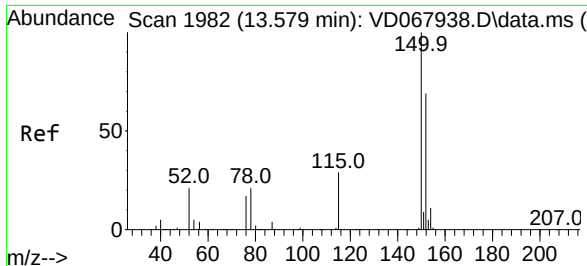
Tgt Ion:117 Resp: 424582  
Ion Ratio Lower Upper  
117 100  
82 58.4 45.4 68.0  
119 32.5 26.7 40.1



#71  
Bromoform  
Concen: 1.39 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. 0.271 min  
Lab File: VD067975.D  
Acq: 30 Dec 2020 14:43

Tgt Ion:173 Resp: 2296  
Ion Ratio Lower Upper  
173 100  
175 352.2 24.6 73.8#  
254 0.0 0.0 0.0

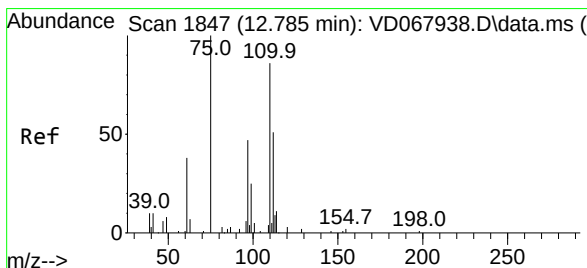
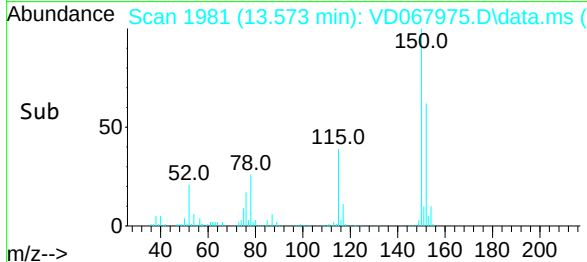
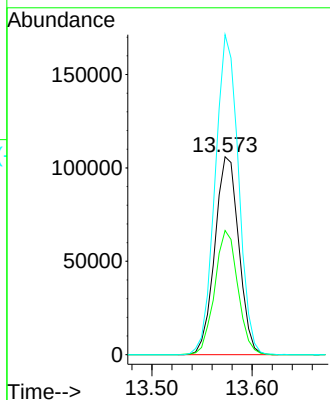
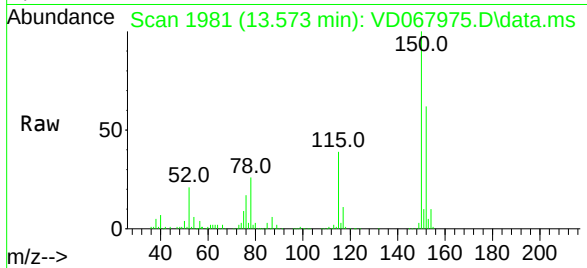




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.573 min Scan# 1981  
Delta R.T. -0.006 min  
Lab File: VD067975.D  
Acq: 30 Dec 2020 14:43

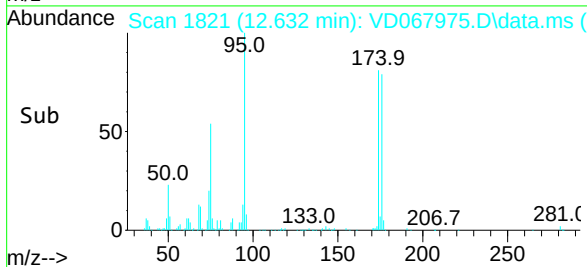
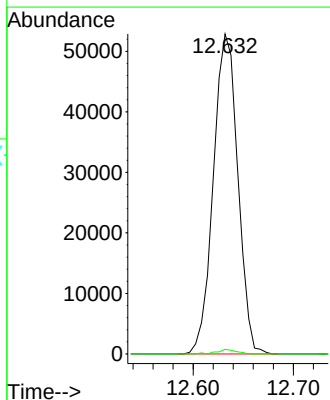
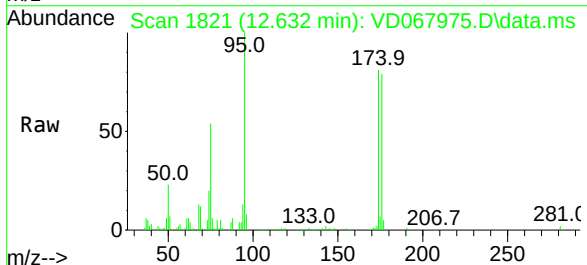
Instrument :  
MSVOA\_D  
ClientSampleId :

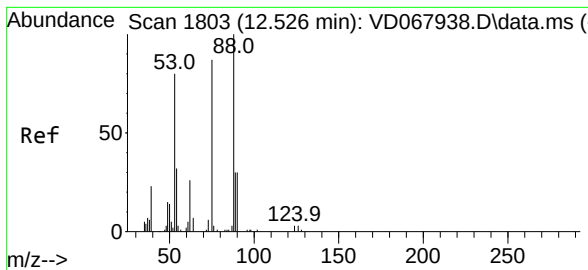
Tgt Ion:152 Resp: 175956  
Ion Ratio Lower Upper  
152 100  
115 60.8 29.3 88.0  
150 157.4 0.0 340.0



#76  
1,2,3-Trichloropropane  
Concen: 60.45 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. -0.153 min  
Lab File: VD067975.D  
Acq: 30 Dec 2020 14:43

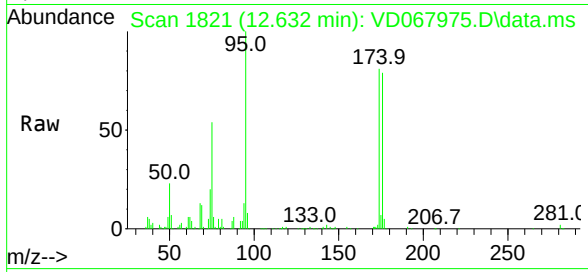
Tgt Ion: 75 Resp: 89553  
Ion Ratio Lower Upper  
75 100  
77 1.1 0.0 0.0#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 123.91 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. 0.106 min  
Lab File: VD067975.D  
Acq: 30 Dec 2020 14:43

Instrument :  
MSVOA\_D  
ClientSampleId :



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

