

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD123020\  
 Data File : VD067983.D  
 Acq On : 30 Dec 2020 18:50  
 Operator : VA/SY  
 Sample : L5224-01RE  
 Misc : 1.22G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

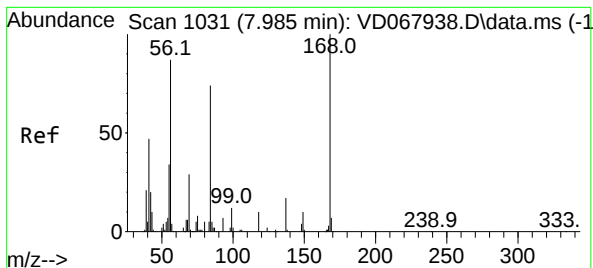
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 DRUM-COMP-1

Quant Time: Dec 31 00:17:54 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  | 160677             | 50.00     | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.867          | 114  | 325725             | 50.00     | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.644         | 117  | 283772             | 50.00     | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.579         | 152  | 101087             | 50.00     | ug/l  | 0.00     |
|                               |                |      |                    |           |       |          |
| System Monitoring Compounds   |                |      |                    |           |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.332          | 65   | 118016             | 68.02     | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 136.04% |           |       |          |
| 35) Dibromofluoromethane      | 7.920          | 113  | 121942             | 59.42     | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 118.84% |           |       |          |
| 50) Toluene-d8                | 10.344         | 98   | 402407             | 52.16     | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 104.32% |           |       |          |
| 62) 4-Bromofluorobenzene      | 12.632         | 95   | 114249             | 43.30     | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 86.60%  |           |       |          |
|                               |                |      |                    |           |       |          |
| Target Compounds              |                |      |                    |           |       |          |
| 5) Bromomethane               | 2.779          | 94   | 396                | Below Cal | #     | 40       |
| 11) Tert butyl alcohol        | 5.214          | 59   | 233                | Below Cal | #     | 74       |
| 16) Acetone                   | 4.162          | 43   | 10150              | 30.64     | ug/l  | 96       |
| 20) Methylene Chloride        | 4.967          | 84   | 13375              | Below Cal | #     | 86       |
| 31) Cyclohexane               | 7.979          | 56   | 4256               | 1.20      | ug/l  | 30       |
| 36) 1,1-Dichloropropene       | 7.973          | 75   | 15175              | 4.38      | ug/l  | 52       |
| 38) Carbon Tetrachloride      | 7.979          | 117  | 17168              | 5.19      | ug/l  | 17       |
| 51) 4-Methyl-2-Pentanone      | 10.232         | 43   | 3765               | 2.83      | ug/l  | 90       |
| 52) Toluene                   | 10.402         | 92   | 202751             | 32.70     | ug/l  | 98       |
| 67) Ethyl Benzene             | 11.749         | 91   | 21442              | 1.96      | ug/l  | 87       |
| 68) m/p-Xylenes               | 11.855         | 106  | 42747              | 10.27     | ug/l  | 96       |
| 69) o-Xylene                  | 12.179         | 106  | 15982              | 4.29      | ug/l  | 93       |
| 76) 1,2,3-Trichloropropane    | 12.632         | 75   | 59354              | 69.74     | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.632         | 75   | 59354              | 142.95    | ug/l  | 13       |
| -----                         |                |      |                    |           |       |          |

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

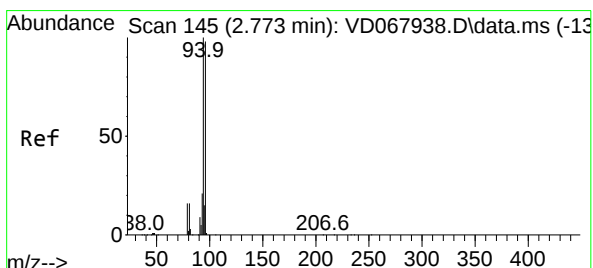
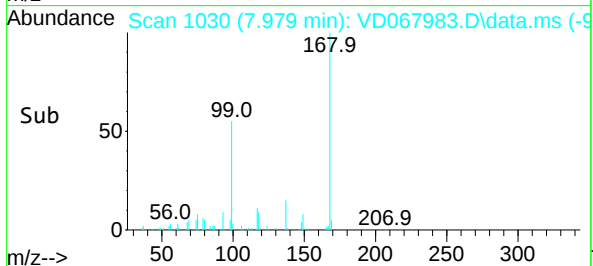
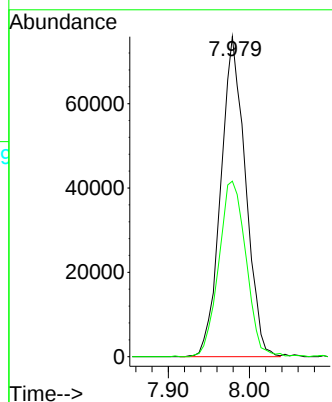
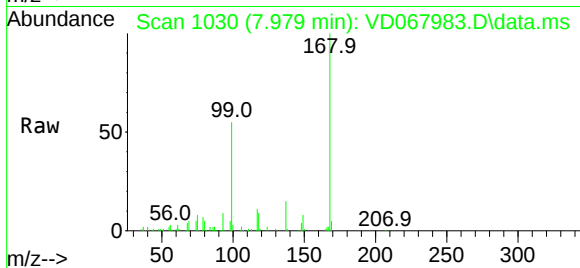




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

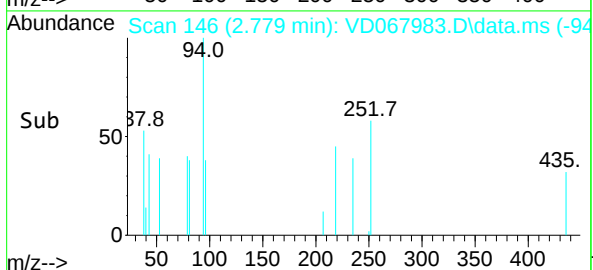
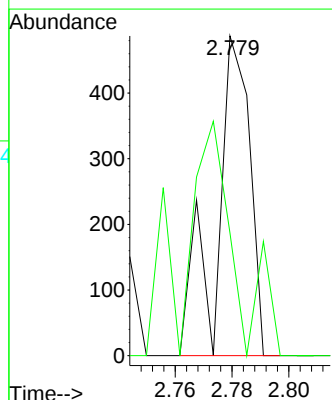
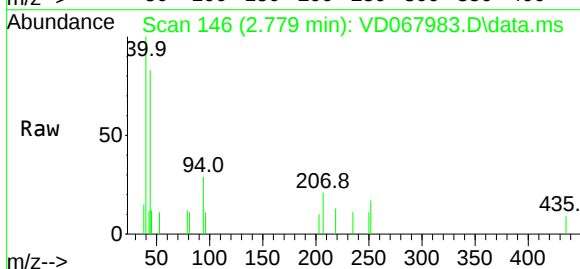
Instrument :  
MSVOA\_D  
ClientSampleId :  
DRUM-COMP-1

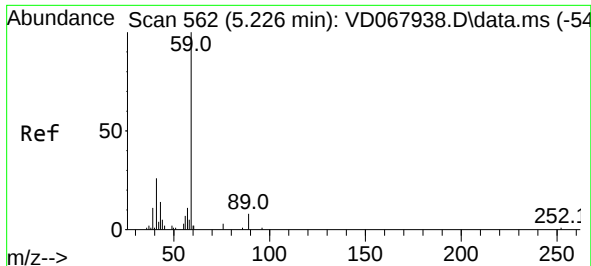
Tgt Ion:168 Resp: 160677  
Ion Ratio Lower Upper  
168 100  
99 54.8 48.0 72.0



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.779 min Scan# 146  
Delta R.T. 0.006 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

Tgt Ion: 94 Resp: 396  
Ion Ratio Lower Upper  
94 100  
96 38.4 78.0 117.0#



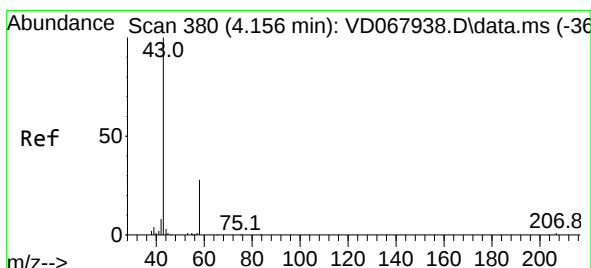
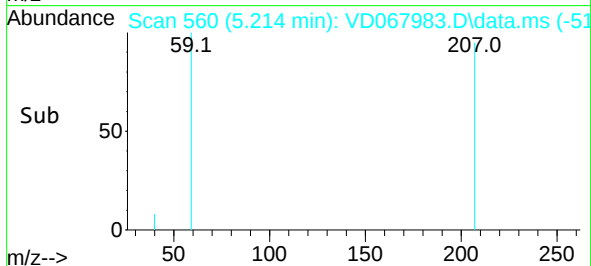
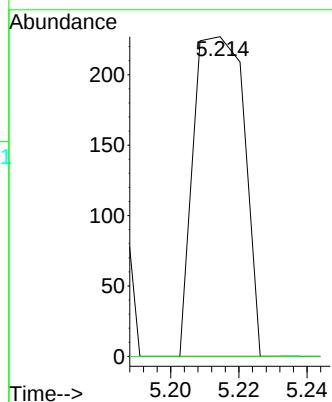
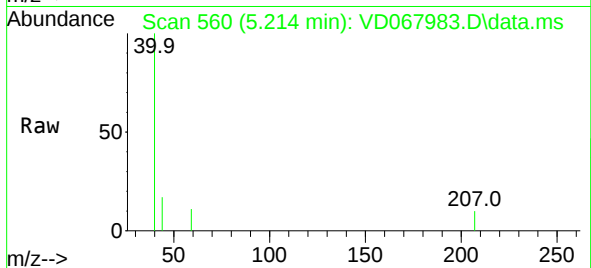


#11

Tert butyl alcohol  
Concen: Below Cal  
RT: 5.214 min Scan# 560  
Delta R.T. -0.012 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

Instrument :  
MSVOA\_D  
ClientSampleId :  
DRUM-COMP-1

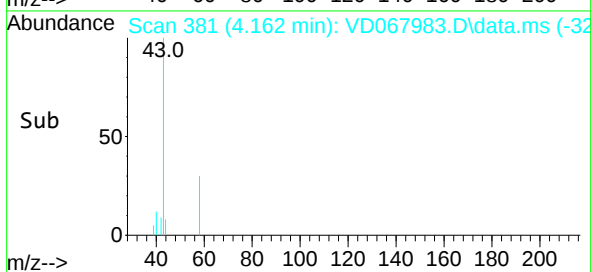
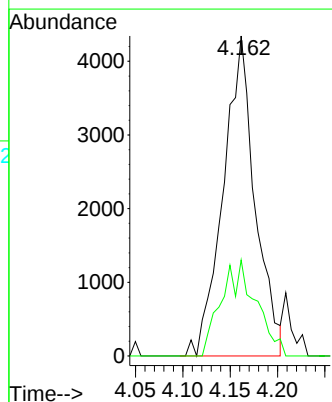
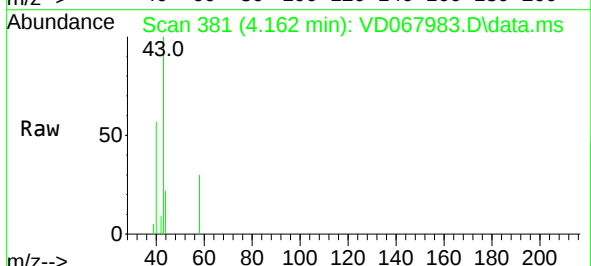
Tgt Ion: 59 Resp: 233  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.4 11.2#

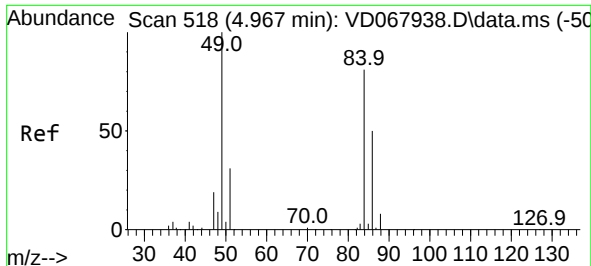


#16

Acetone  
Concen: 30.64 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. 0.006 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

Tgt Ion: 43 Resp: 10150  
Ion Ratio Lower Upper  
43 100  
58 30.0 22.3 33.5

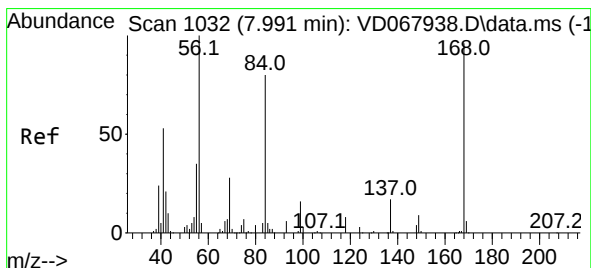
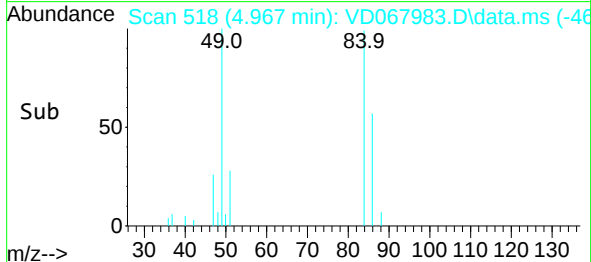
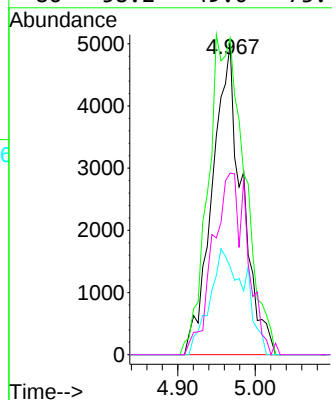
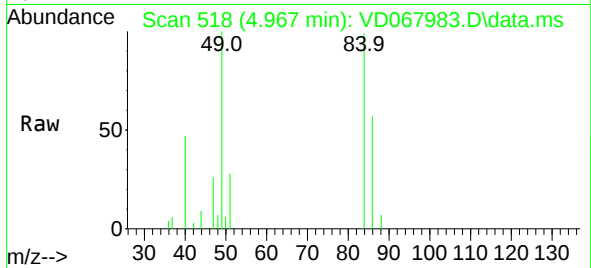




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.967 min Scan# 518  
Delta R.T. 0.000 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

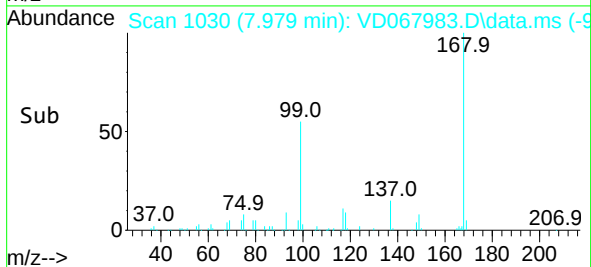
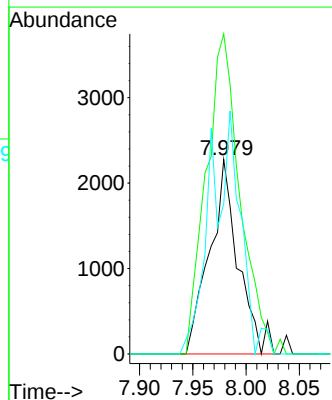
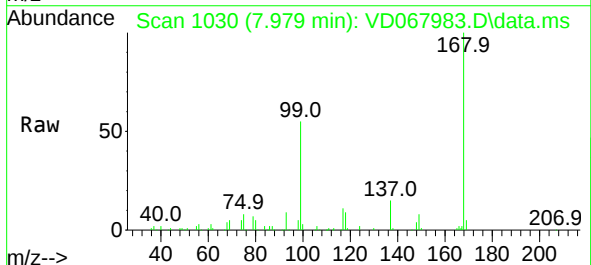
Instrument :  
MSVOA\_D  
ClientSampleId :  
DRUM-COMP-1

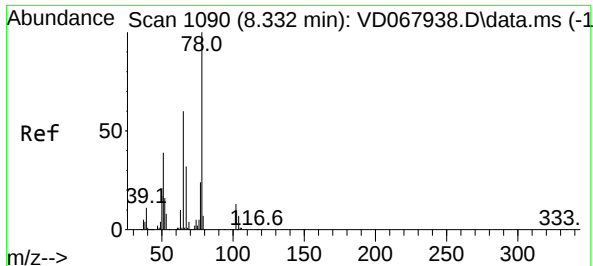
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 13375 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 101.5 | 98.3  | 147.5 |
| 51       | 28.2  | 30.3  | 45.5# |
| 86       | 58.2  | 49.0  | 73.4  |



#31  
Cyclohexane  
Concen: 1.20 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.012 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 4256  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 164.7 | 22.7  | 34.1# |
| 84       | 77.2  | 64.2  | 96.4  |

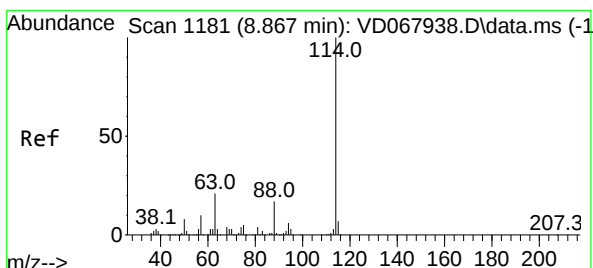
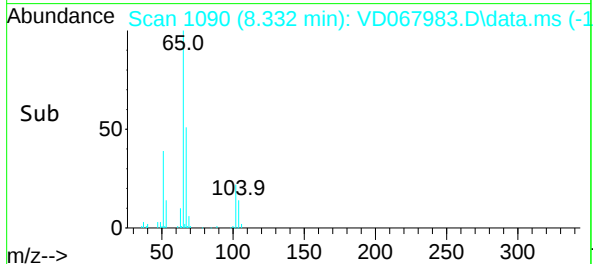
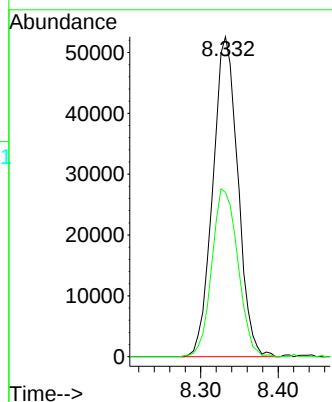
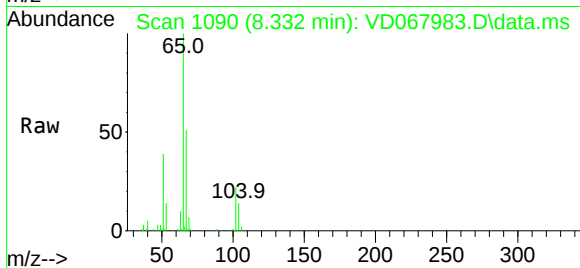




#33  
1,2-Dichloroethane-d4  
Concen: 68.02 ug/l  
RT: 8.332 min Scan# 1090  
Delta R.T. 0.000 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

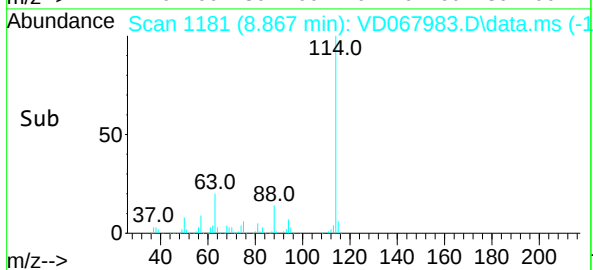
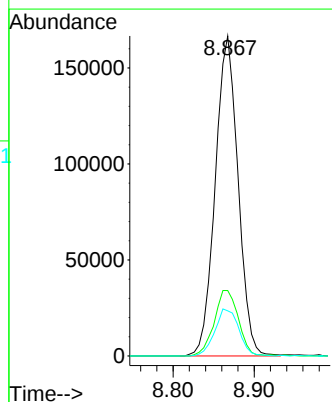
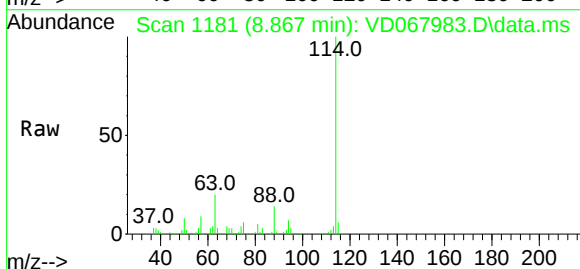
Instrument :  
MSVOA\_D  
ClientSampleId :  
DRUM-COMP-1

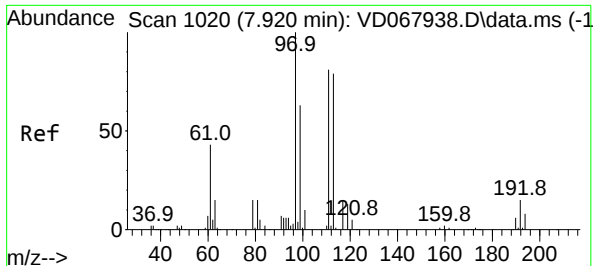
Tgt Ion: 65 Resp: 118016  
Ion Ratio Lower Upper  
65 100  
67 54.5 0.0 110.0



#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.867 min Scan# 1181  
Delta R.T. 0.000 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

Tgt Ion: 114 Resp: 325725  
Ion Ratio Lower Upper  
114 100  
63 20.4 0.0 41.4  
88 14.1 0.0 33.2





#35

Dibromofluoromethane

Concen: 59.42 ug/l

RT: 7.920 min Scan# 1020

Delta R.T. 0.000 min

Lab File: VD067983.D

Acq: 30 Dec 2020 18:50

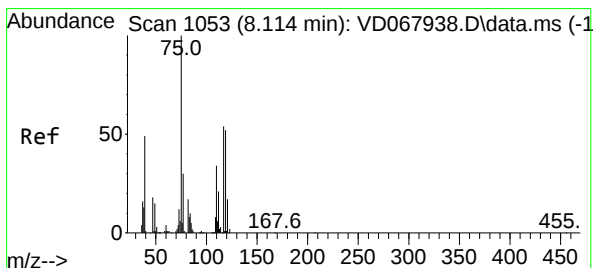
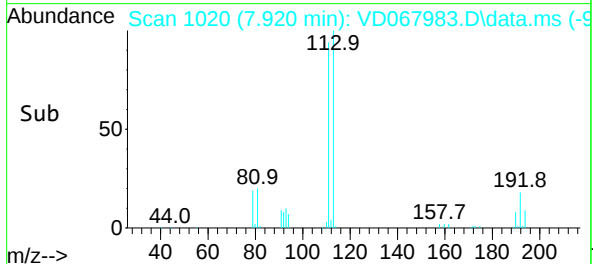
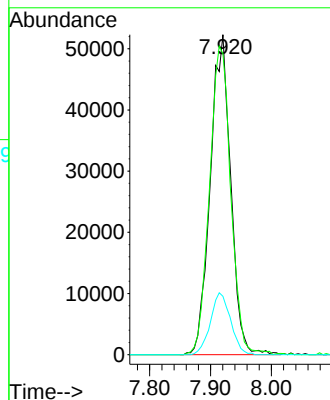
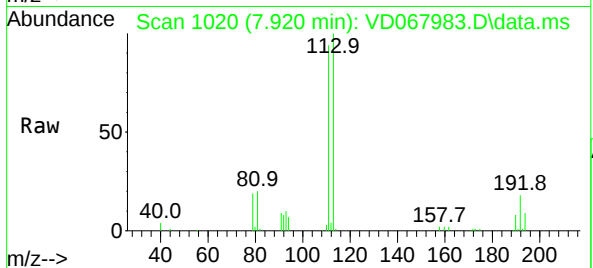
Tgt Ion:113 Resp: 121942

Ion Ratio Lower Upper

113 100

111 100.4 79.3 118.9

192 19.1 14.5 21.7



#36

1,1-Dichloropropene

Concen: 4.38 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.141 min

Lab File: VD067983.D

Acq: 30 Dec 2020 18:50

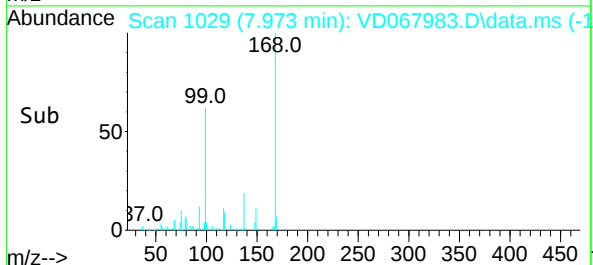
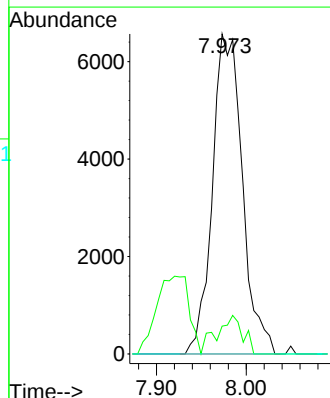
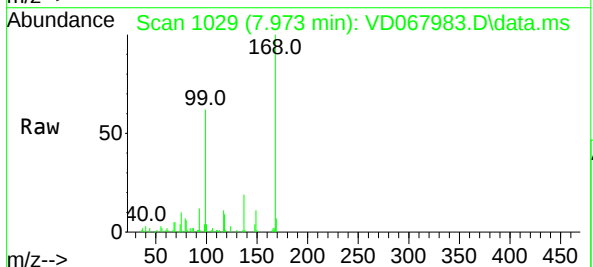
Tgt Ion: 75 Resp: 15175

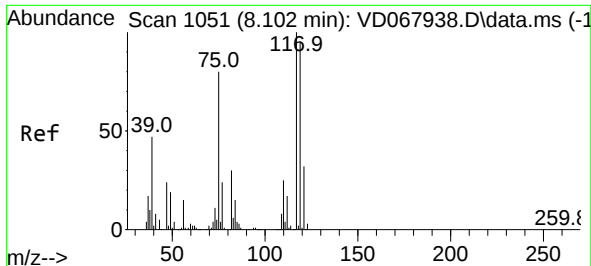
Ion Ratio Lower Upper

75 100

110 10.4 17.0 51.0#

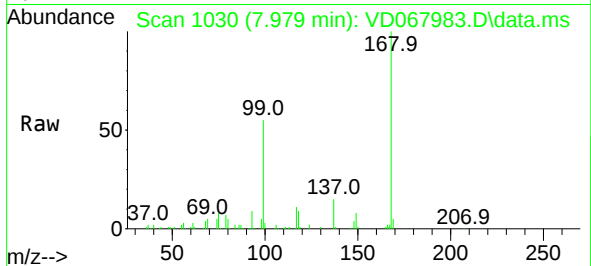
77 0.0 24.6 37.0#



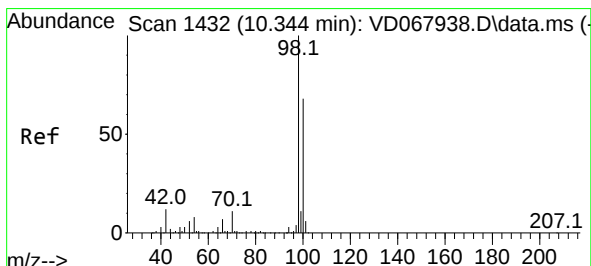
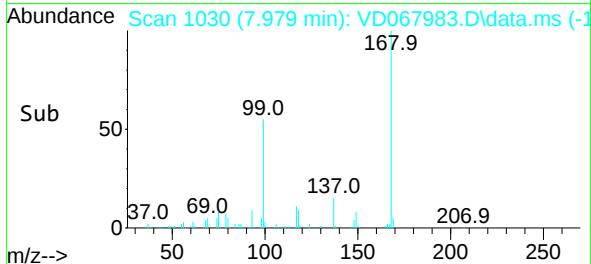
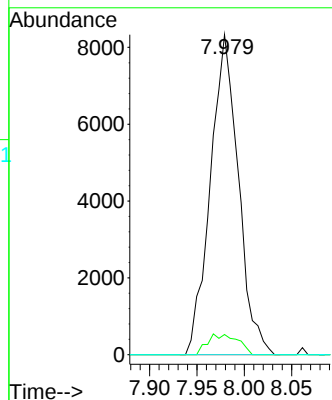


#38  
Carbon Tetrachloride  
Concen: 5.19 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.123 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

Instrument :  
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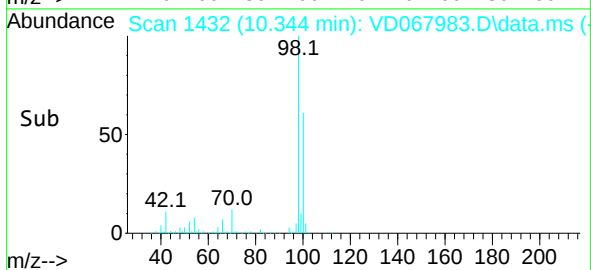
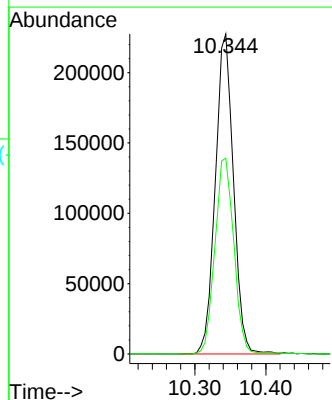
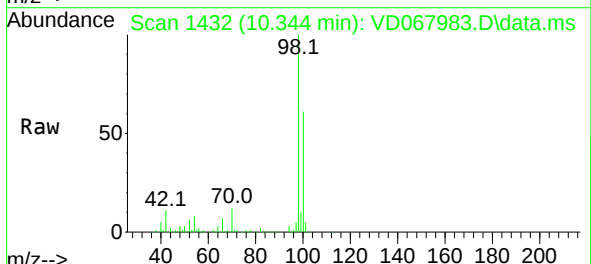


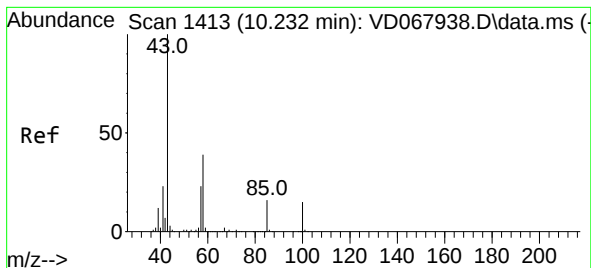
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Ion Ratio Lower Upper  
117 100  
119 6.3 76.2 114.4#  
121 0.0 25.9 38.9#



#50  
Toluene-d8  
Concen: 52.16 ug/l  
RT: 10.344 min Scan# 1432  
Delta R.T. 0.000 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

Tgt Ion: 98 Resp: 402407  
Ion Ratio Lower Upper  
98 100  
100 64.2 52.5 78.7

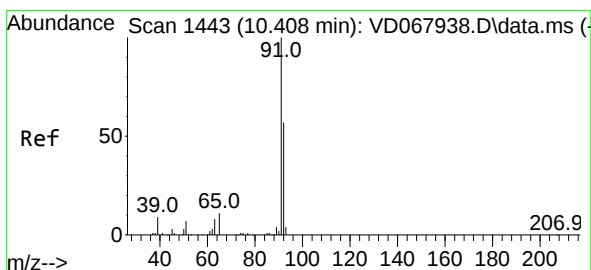
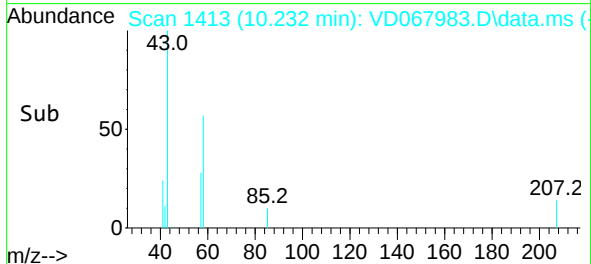
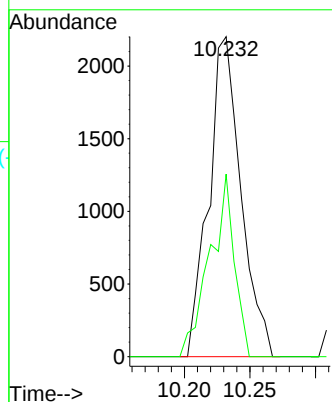
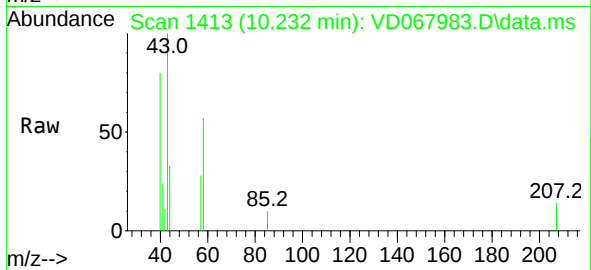




#51  
4-Methyl-2-Pentanone  
Concen: 2.83 ug/l  
RT: 10.232 min Scan# 1413  
Delta R.T. 0.000 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

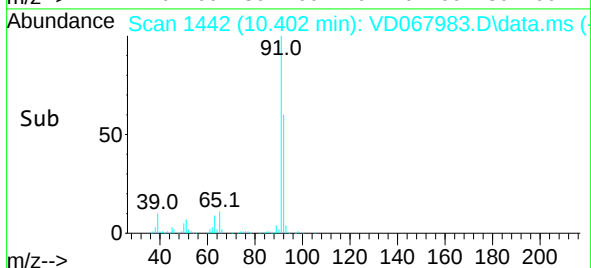
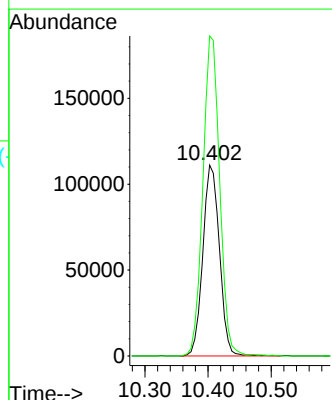
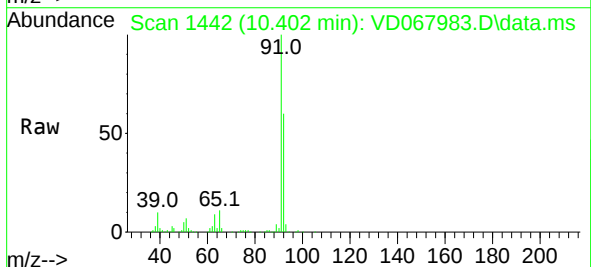
Instrument :  
MSVOA\_D  
ClientSampleId :  
DRUM-COMP-1

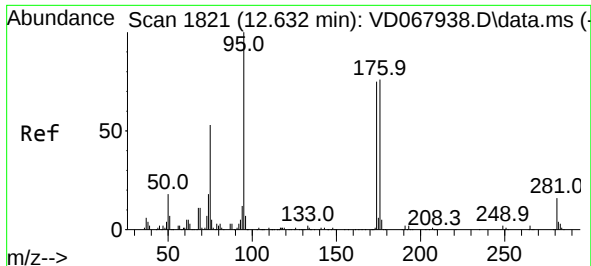
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Ion Ratio Lower Upper  
43 100  
58 43.5 30.0 45.0



#52  
Toluene  
Concen: 32.70 ug/l  
RT: 10.402 min Scan# 1442  
Delta R.T. -0.006 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

Tgt Ion: 92 Resp: 202751  
Ion Ratio Lower Upper  
92 100  
91 169.8 138.5 207.7

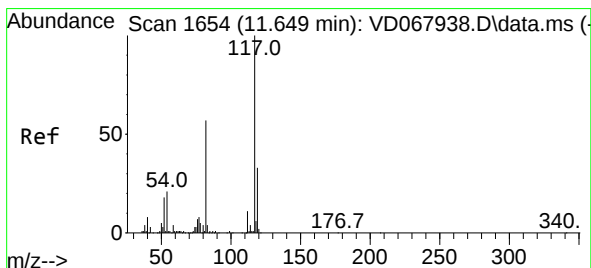
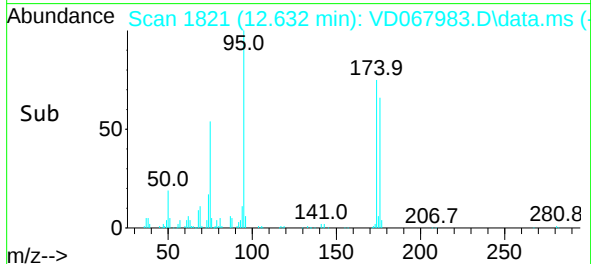
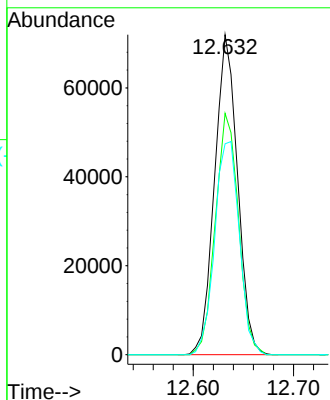
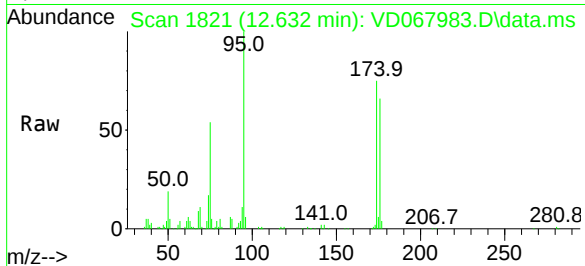




#62  
4-Bromofluorobenzene  
Concen: 43.30 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. 0.000 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

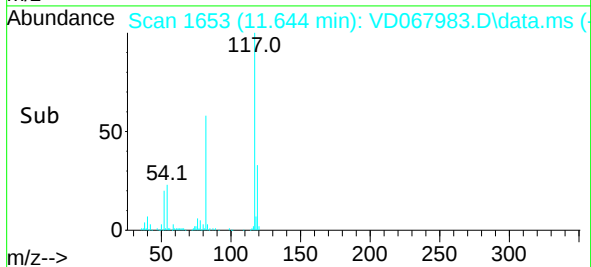
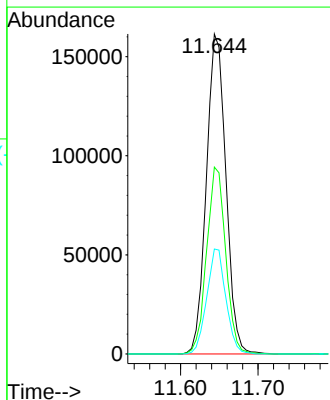
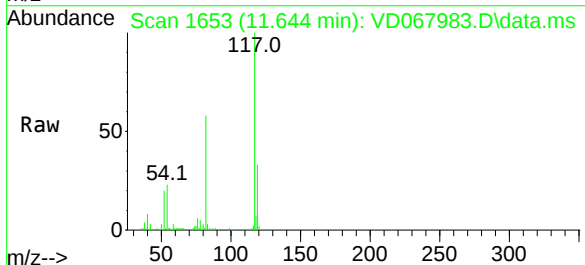
Instrument :  
MSVOA\_D  
ClientSampleId :  
DRUM-COMP-1

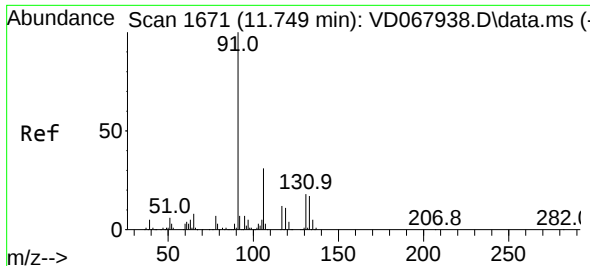
Tgt Ion: 95 Resp: 114249  
Ion Ratio Lower Upper  
95 100  
174 76.1 0.0 150.6  
176 71.6 0.0 151.2



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.644 min Scan# 1653  
Delta R.T. -0.006 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

Tgt Ion: 117 Resp: 283772  
Ion Ratio Lower Upper  
117 100  
82 58.4 45.4 68.0  
119 32.8 26.7 40.1

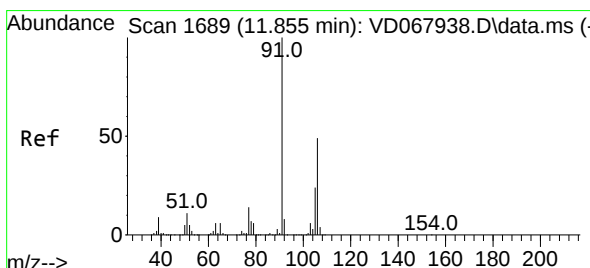
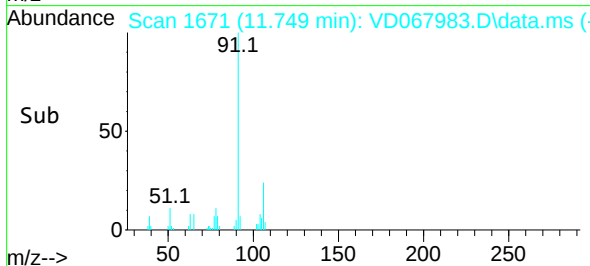
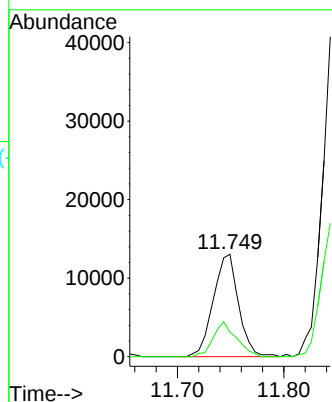
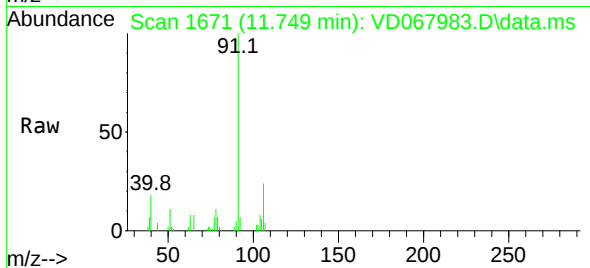




#67  
Ethyl Benzene  
Concen: 1.96 ug/l  
RT: 11.749 min Scan# 1671  
Delta R.T. 0.000 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

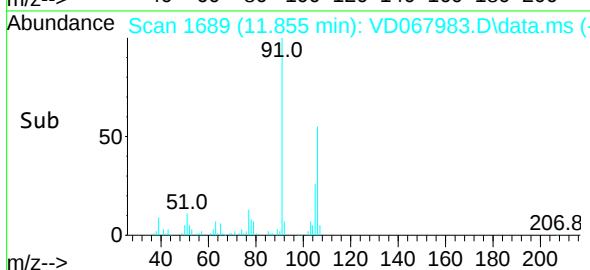
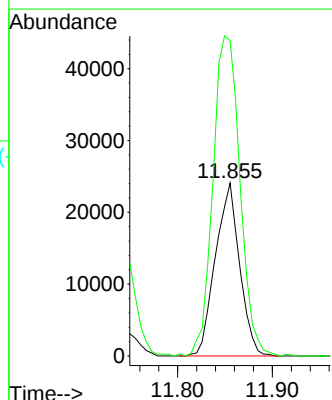
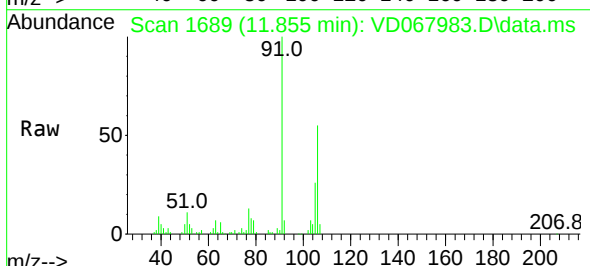
Instrument :  
MSVOA\_D  
ClientSampleId :  
DRUM-COMP-1

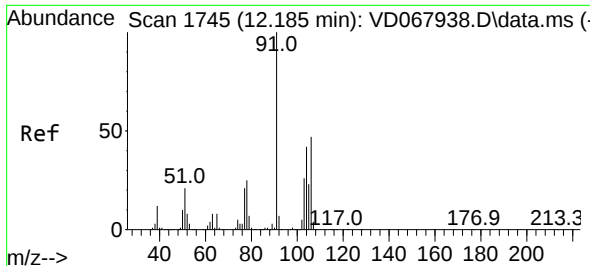
Tgt Ion: 91 Resp: 21442  
Ion Ratio Lower Upper  
91 100  
106 23.8 24.6 37.0#



#68  
m/p-Xylenes  
Concen: 10.27 ug/l  
RT: 11.855 min Scan# 1689  
Delta R.T. 0.000 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

Tgt Ion:106 Resp: 42747  
Ion Ratio Lower Upper  
106 100  
91 206.4 159.9 239.9

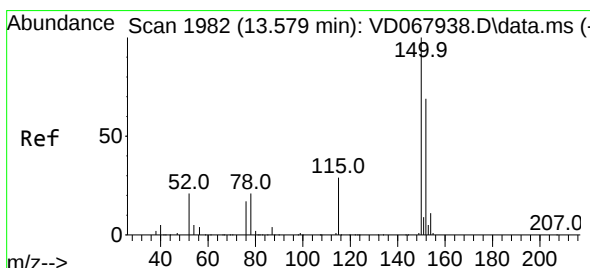
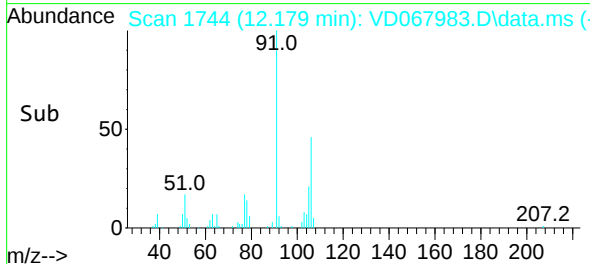
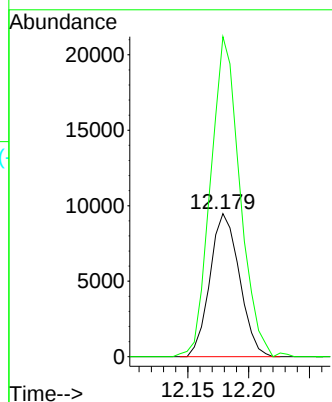
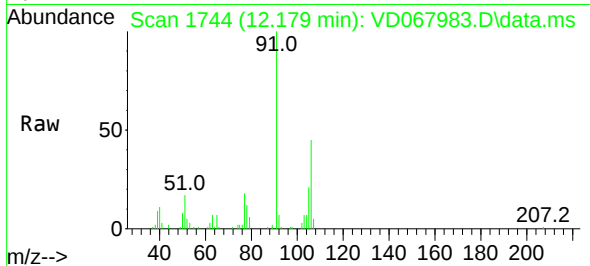




#69  
o-Xylene  
Concen: 4.29 ug/l  
RT: 12.179 min Scan# 1744  
Delta R.T. -0.006 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

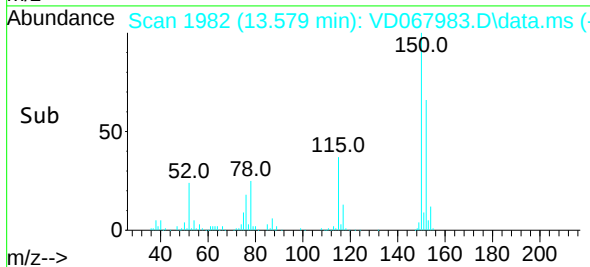
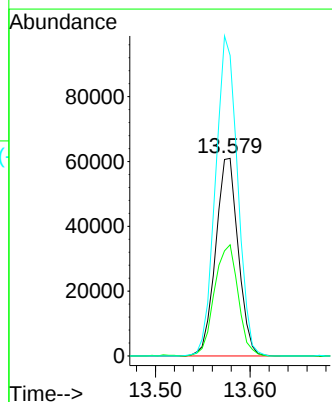
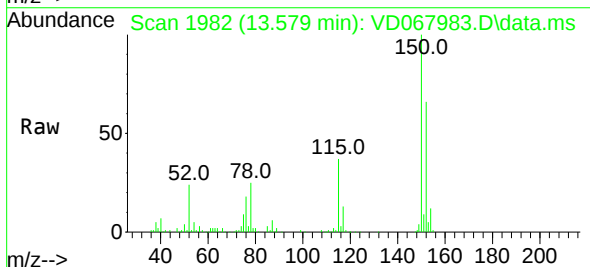
Instrument :  
MSVOA\_D  
ClientSampleId :  
DRUM-COMP-1

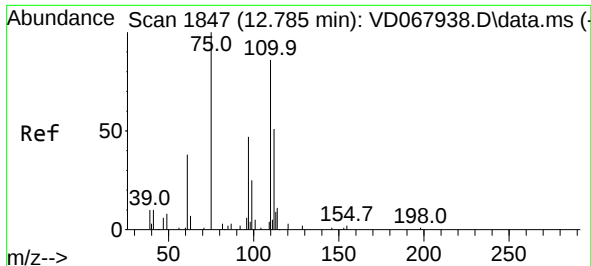
Tgt Ion:106 Resp: 15982  
Ion Ratio Lower Upper  
106 100  
91 222.8 106.0 317.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.579 min Scan# 1982  
Delta R.T. 0.000 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

Tgt Ion:152 Resp: 101087  
Ion Ratio Lower Upper  
152 100  
115 58.9 29.3 88.0  
150 158.3 0.0 340.0

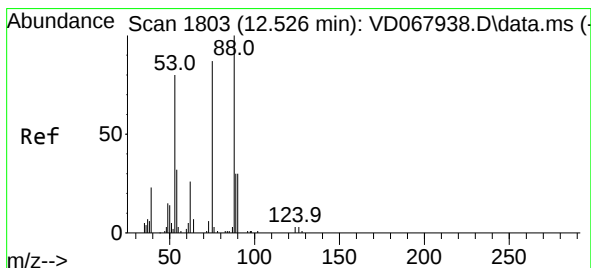
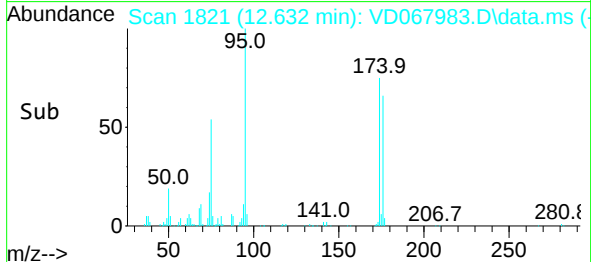
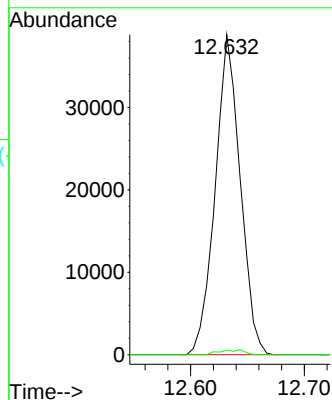
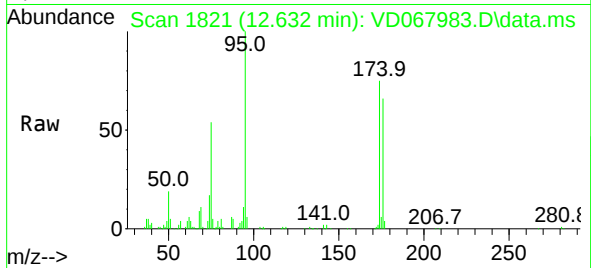




#76  
1,2,3-Trichloropropane  
Concen: 69.74 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. -0.153 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

Instrument :  
MSVOA\_D  
ClientSampleId :  
DRUM-COMP-1

Tgt Ion: 75 Resp: 59354  
Ion Ratio Lower Upper  
75 100  
77 1.5 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 142.95 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. 0.106 min  
Lab File: VD067983.D  
Acq: 30 Dec 2020 18:50

Tgt Ion: 75 Resp: 59354  
Ion Ratio Lower Upper  
75 100  
53 0.4 74.9 112.3#  
89 0.0 33.8 50.8#

