

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051921\  
 Data File : VD069200.D  
 Acq On : 19 May 2021 16:56  
 Operator : VA/SY  
 Sample : M2420-03  
 Misc : 5.06G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: May 20 01:02:30 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

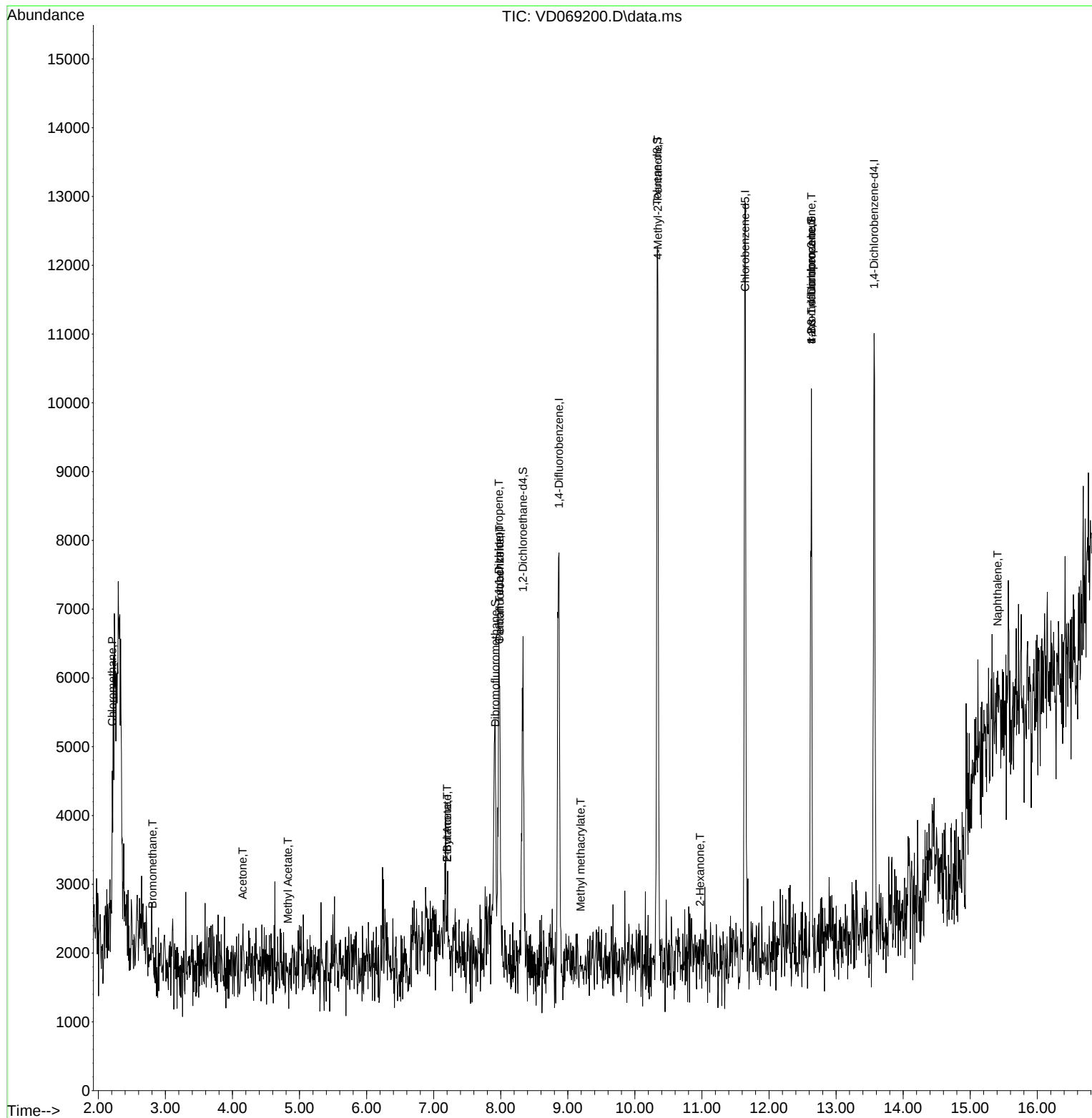
| Compound                      | R.T.           | QIon | Response            | Conc      | Units | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|-------|----------|
| -----                         |                |      |                     |           |       |          |
| Internal Standards            |                |      |                     |           |       |          |
| 1) Pentafluorobenzene         | 7.985          | 168  | 4524                | 50.00     | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.867          | 114  | 6616                | 50.00     | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.644         | 117  | 6906                | 50.00     | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567         | 152  | 2512                | 50.00     | ug/l  | 0.00     |
|                               |                |      |                     |           |       |          |
| System Monitoring Compounds   |                |      |                     |           |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.332          | 65   | 3742                | 82.51     | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 165.02%# |           |       |          |
| 35) Dibromofluoromethane      | 7.920          | 113  | 2404                | 55.84     | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 111.68%  |           |       |          |
| 50) Toluene-d8                | 10.332         | 98   | 7889                | 49.87     | ug/l  | -0.01    |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 99.74%   |           |       |          |
| 62) 4-Bromofluorobenzene      | 12.632         | 95   | 2456                | 48.25     | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 96.50%   |           |       |          |
|                               |                |      |                     |           |       |          |
| Target Compounds              |                |      |                     |           |       | Qvalue   |
| 3) Chloromethane              | 2.209          | 50   | 116                 | 2.10      | ug/l  | # 53     |
| 5) Bromomethane               | 2.809          | 94   | 116                 | 2.12      | ug/l  | # 3      |
| 16) Acetone                   | 4.150          | 43   | 387                 | 55.71     | ug/l  | # 41     |
| 18) Methyl Acetate            | 4.826          | 43   | 80                  | 4.74      | ug/l  | # 45     |
| 20) Methylene Chloride        | 4.944          | 84   | 76                  | Below Cal |       | # 14     |
| 25) 2-Butanone                | 7.203          | 43   | 55                  | 5.84      | ug/l  | # 38     |
| 36) 1,1-Dichloropropene       | 7.973          | 75   | 166                 | 2.58      | ug/l  | # 40     |
| 37) Ethyl Acetate             | 7.203          | 43   | 55                  | 2.66      | ug/l  | # 66     |
| 38) Carbon Tetrachloride      | 7.979          | 117  | 116                 | 1.61      | ug/l  | # 12     |
| 48) Methyl methacrylate       | 9.191          | 41   | 63                  | 3.63      | ug/l  | # 4      |
| 51) 4-Methyl-2-Pentanone      | 10.344         | 43   | 67                  | 3.47      | ug/l  | # 32     |
| 59) 2-Hexanone                | 10.973         | 43   | 60                  | 4.66      | ug/l  | # 19     |
| 76) 1,2,3-Trichloropropane    | 12.632         | 75   | 1345                | 71.23     | ug/l  | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.632         | 75   | 1345                | 143.88    | ug/l  | # 14     |
| 95) Naphthalene               | 15.408         | 128  | 124                 | 3.49      | ug/l  | # 69     |
| -----                         |                |      |                     |           |       |          |

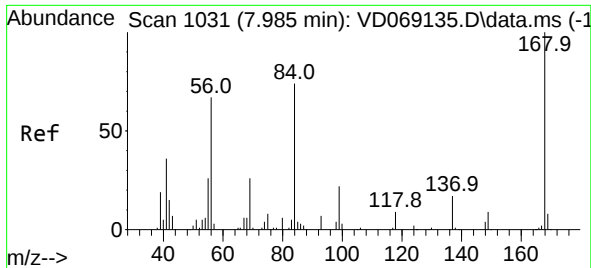
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051921\  
Data File : VD069200.D  
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Operator : VA/SY  
Sample : M2420-03  
Misc : 5.06G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampled :

Quant Time: May 20 01:02:30 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

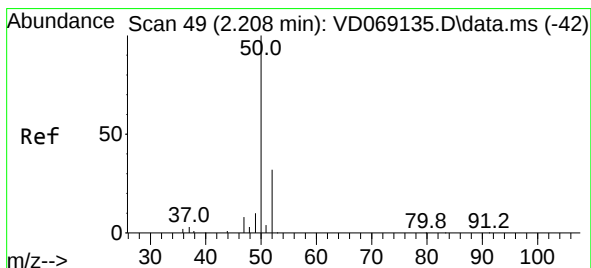
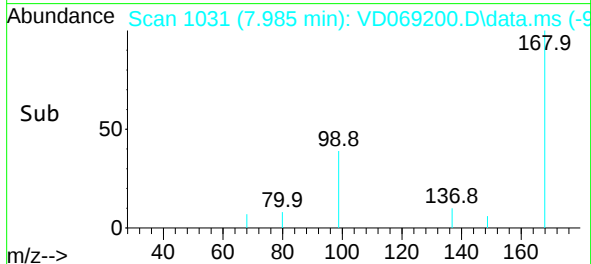
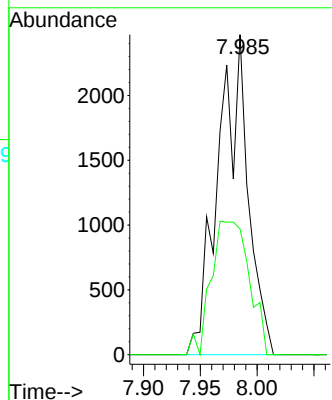
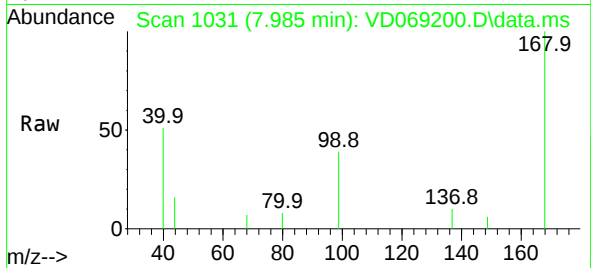




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. 0.000 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

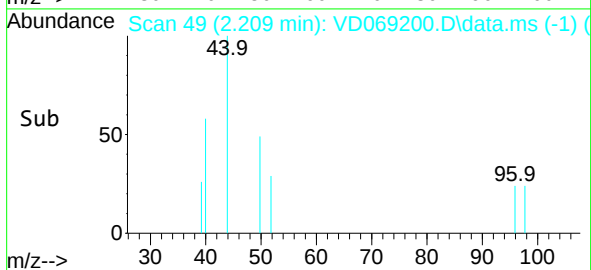
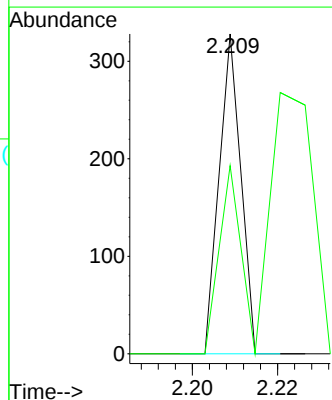
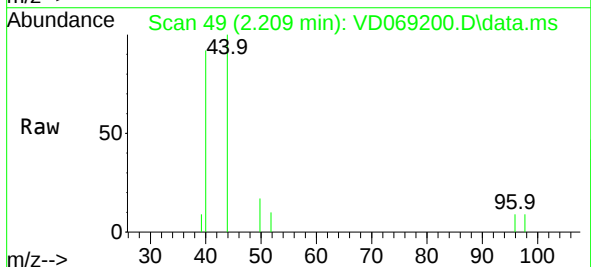
Instrument :  
MSVOA\_D  
ClientSampleId :

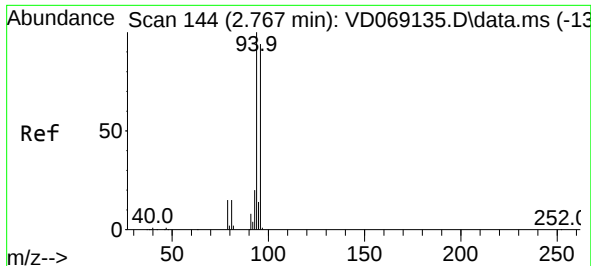
Tgt Ion:168 Resp: 4524  
Ion Ratio Lower Upper  
168 100  
99 39.3 47.2 70.8#



#3  
Chloromethane  
Concen: 2.10 ug/l  
RT: 2.209 min Scan# 49  
Delta R.T. 0.000 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

Tgt Ion: 50 Resp: 116  
Ion Ratio Lower Upper  
50 100  
52 58.8 25.8 38.8#

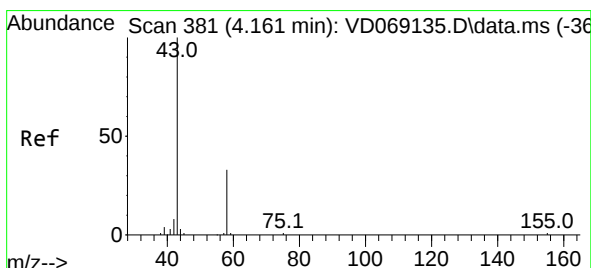
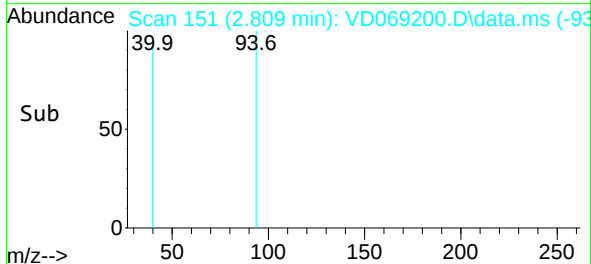
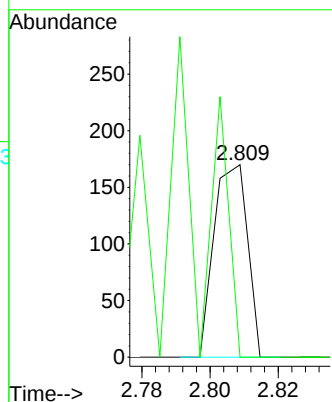
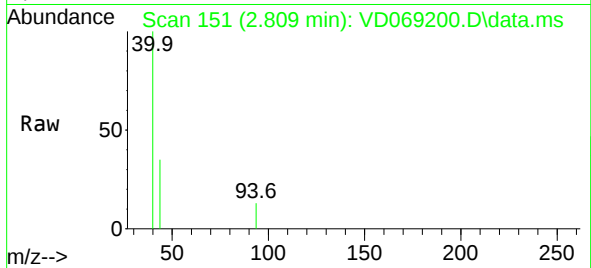




#5  
Bromomethane  
Concen: 2.12 ug/l  
RT: 2.809 min Scan# 151  
Delta R.T. 0.042 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

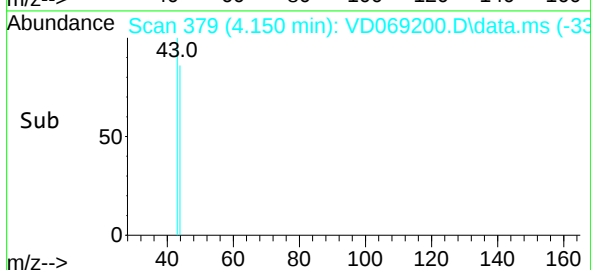
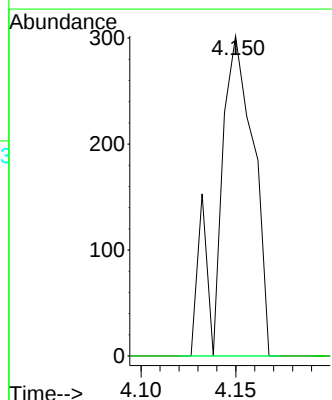
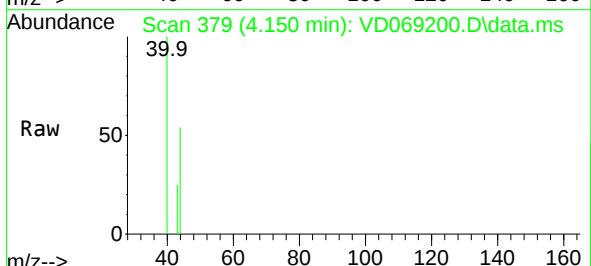
Instrument :  
MSVOA\_D  
ClientSampled :

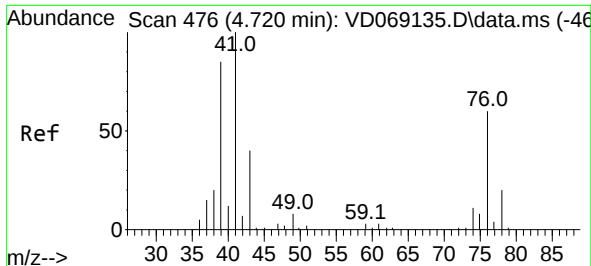
Tgt Ion: 94 Resp: 116  
Ion Ratio Lower Upper  
94 100  
96 0.0 75.4 113.0#



#16  
Acetone  
Concen: 55.71 ug/l  
RT: 4.150 min Scan# 379  
Delta R.T. -0.011 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

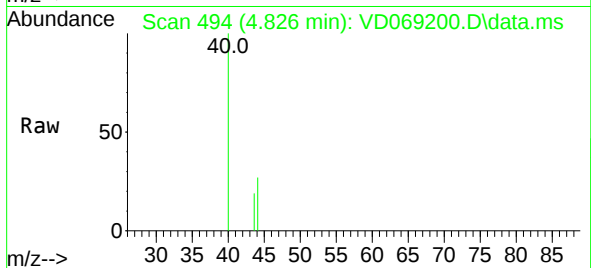
Tgt Ion: 43 Resp: 387  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.7 40.1#



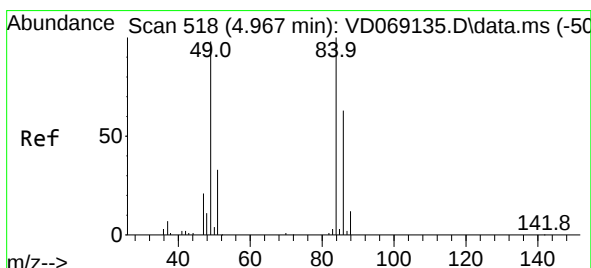
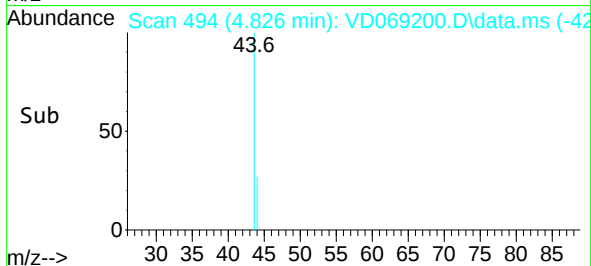
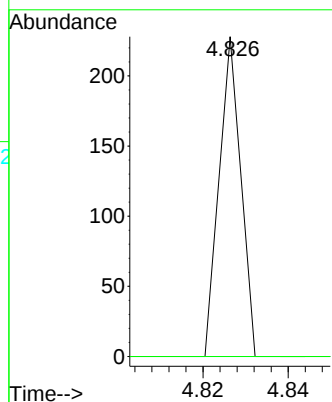


#18  
Methyl Acetate  
Concen: 4.74 ug/l  
RT: 4.826 min Scan# 494  
Delta R.T. 0.106 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

Instrument :  
MSVOA\_D  
ClientSampled :

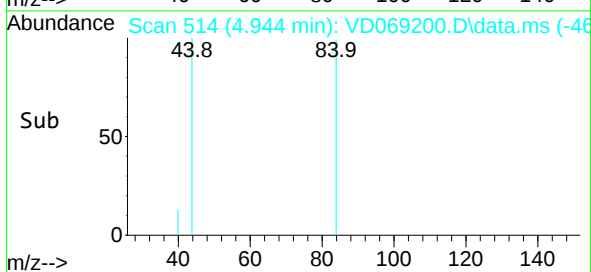
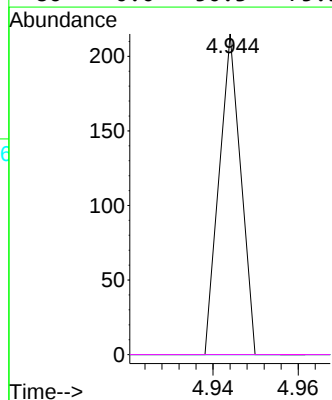
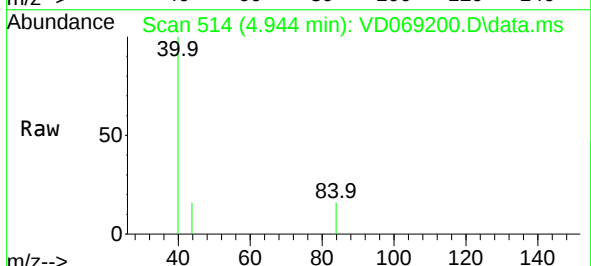


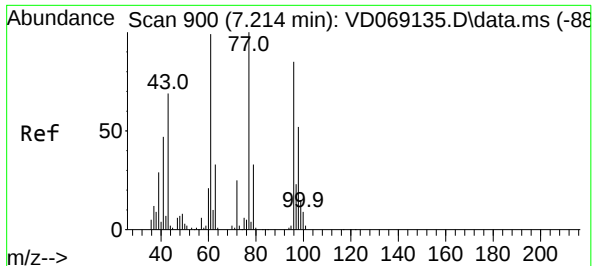
Tgt Ion: 43 Resp: 80  
Ion Ratio Lower Upper  
43 100  
74 0.0 23.8 35.6#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.944 min Scan# 514  
Delta R.T. -0.023 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

Tgt Ion: 84 Resp: 76  
Ion Ratio Lower Upper  
84 100  
49 0.0 78.6 117.8#  
51 0.0 26.7 40.1#  
86 0.0 50.3 75.5#

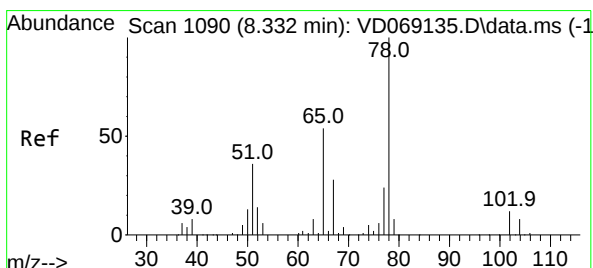
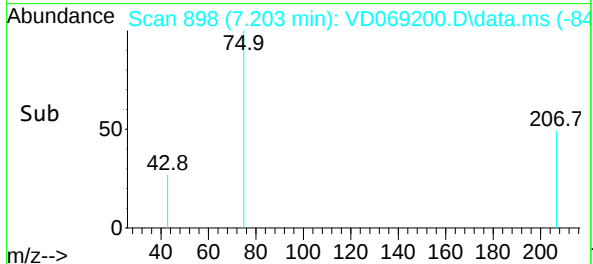
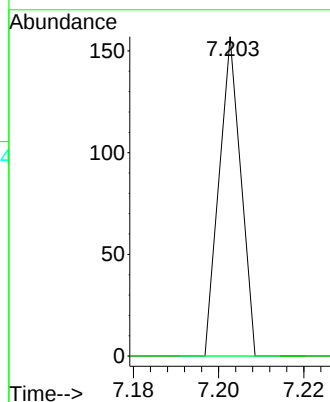
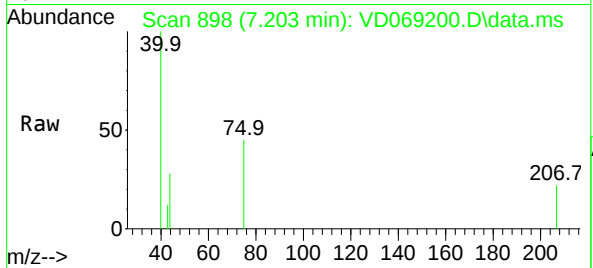




#25  
2-Butanone  
Concen: 5.84 ug/l  
RT: 7.203 min Scan# 898  
Delta R.T. -0.011 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

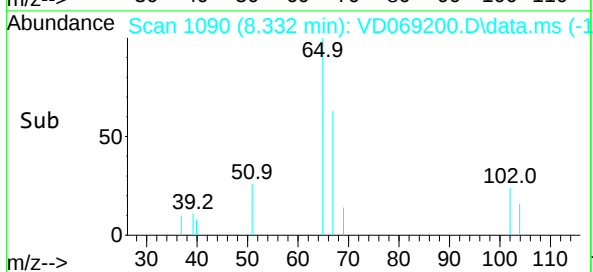
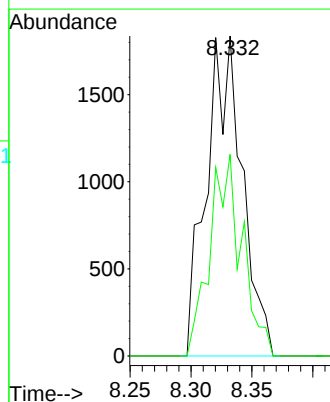
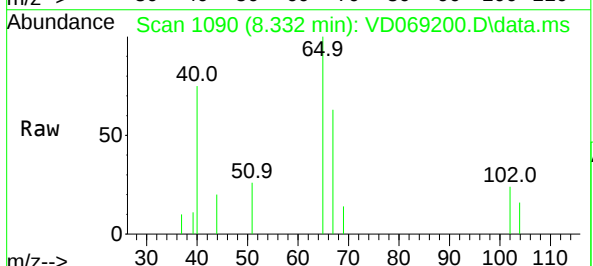
Instrument :  
MSVOA\_D  
ClientSampled :

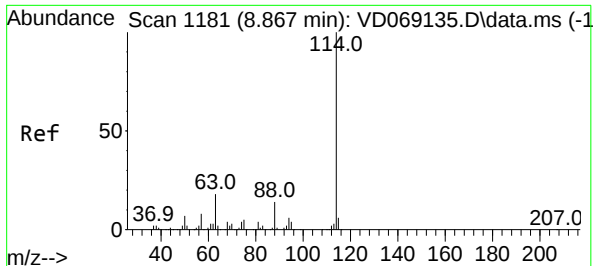
Tgt Ion: 43 Resp: 55  
Ion Ratio Lower Upper  
43 100  
72 0.0 29.1 43.7#



#33  
1,2-Dichloroethane-d4  
Concen: 82.51 ug/l  
RT: 8.332 min Scan# 1090  
Delta R.T. 0.000 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

Tgt Ion: 65 Resp: 3742  
Ion Ratio Lower Upper  
65 100  
67 56.5 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.867 min Scan# 1181

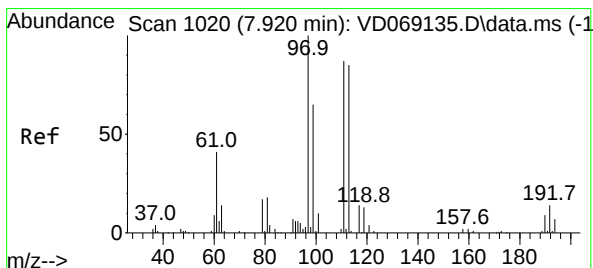
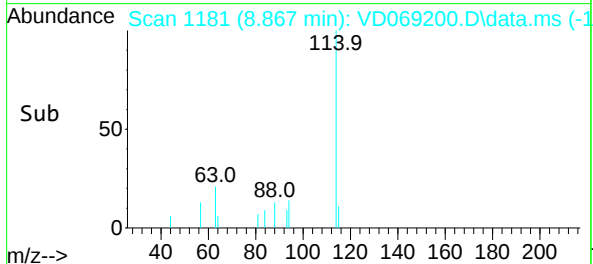
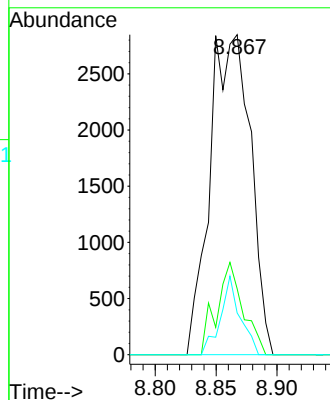
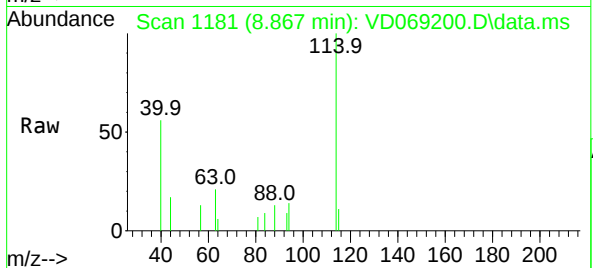
Delta R.T. 0.000 min

Lab File: VD069200.D

Acq: 19 May 2021 16:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 114   | Resp: | 6616  |
| Ion      | Ratio | Lower | Upper |
| 114      | 100   |       |       |
| 63       | 20.6  | 0.0   | 36.4  |
| 88       | 13.1  | 0.0   | 28.2  |

Instrument :  
MSVOA\_D  
ClientSampled :



#35

Dibromofluoromethane

Concen: 55.84 ug/l

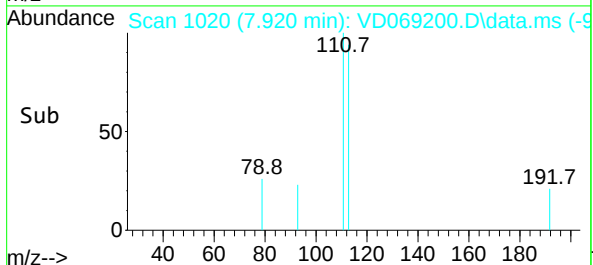
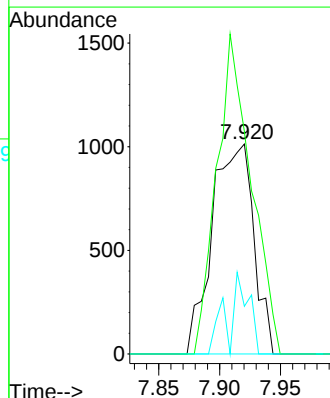
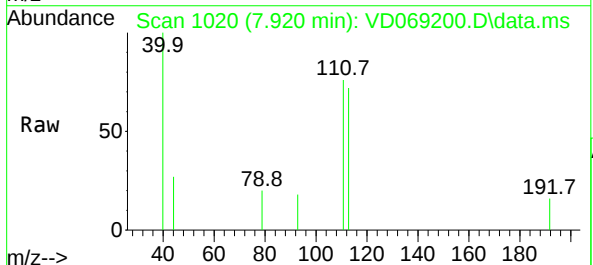
RT: 7.920 min Scan# 1020

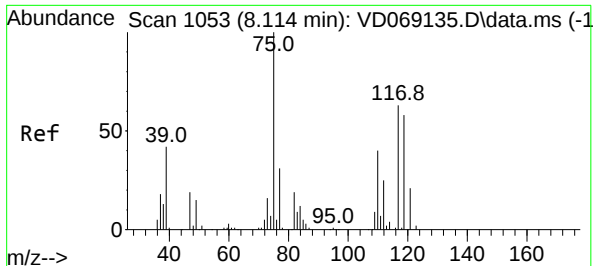
Delta R.T. 0.000 min

Lab File: VD069200.D

Acq: 19 May 2021 16:56

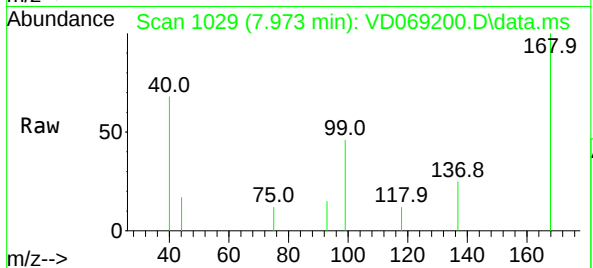
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 2404   |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 126.9 | 80.6  | 120.8# |
| 192      | 13.4  | 14.8  | 22.2#  |



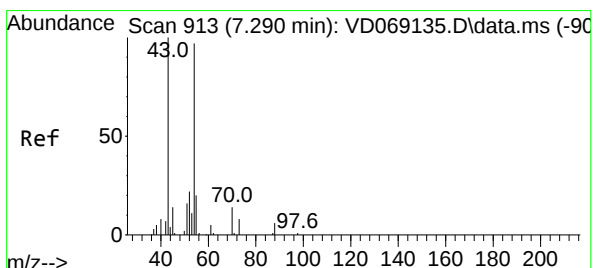
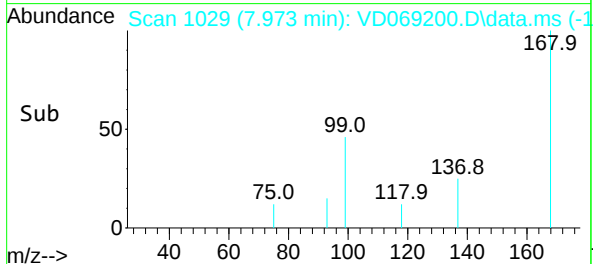
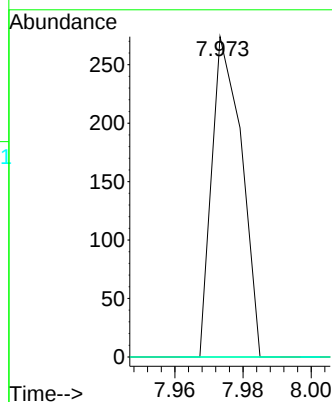


#36  
1,1-Dichloropropene  
Concen: 2.58 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.141 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

Instrument :  
MSVOA\_D  
ClientSampled :

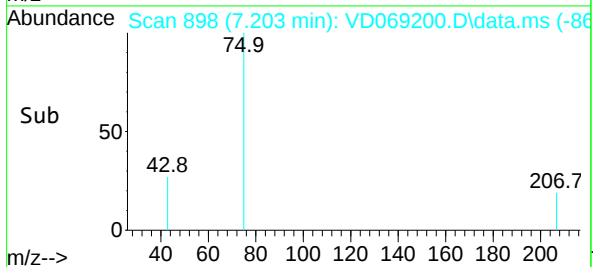
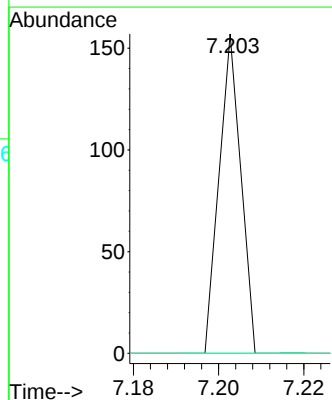
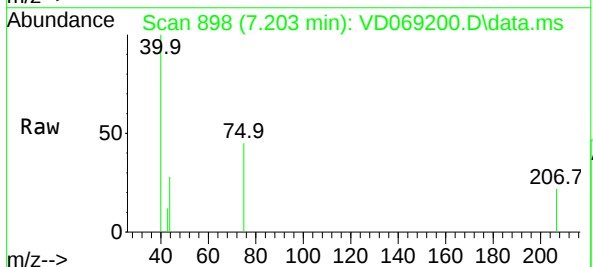


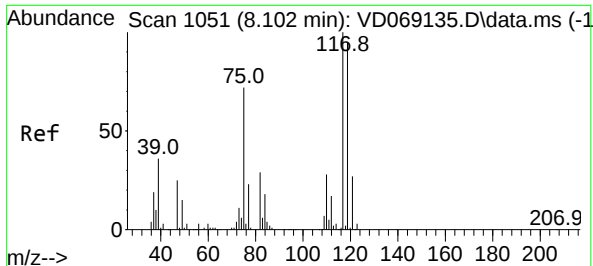
Tgt Ion: 75 Resp: 166  
Ion Ratio Lower Upper  
75 100  
110 0.0 18.8 56.4#  
77 0.0 25.2 37.8#



#37  
Ethyl Acetate  
Concen: 2.66 ug/l  
RT: 7.203 min Scan# 898  
Delta R.T. -0.088 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

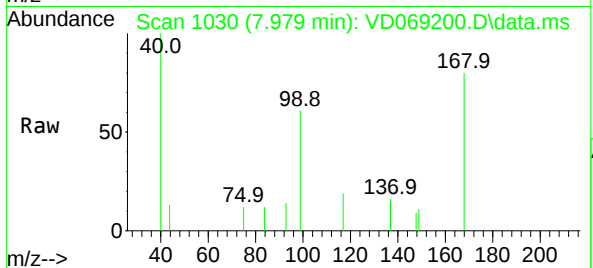
Tgt Ion: 43 Resp: 55  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.5 17.3#  
70 0.0 10.4 15.6#



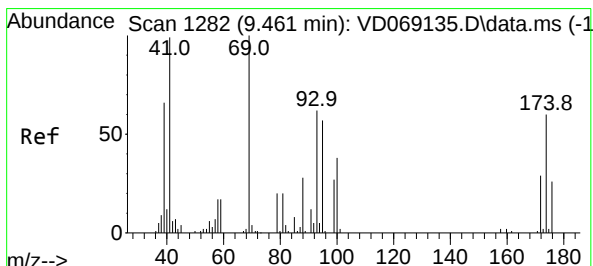
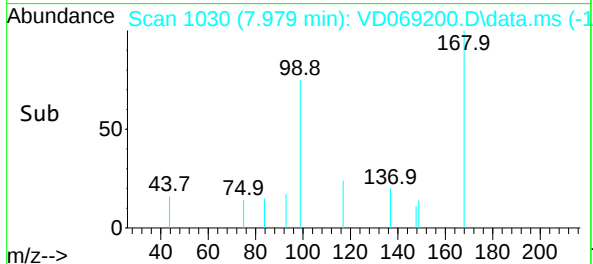
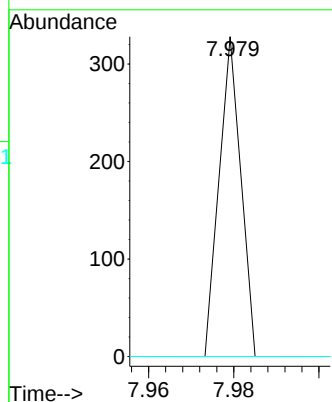


#38  
Carbon Tetrachloride  
Concen: 1.61 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.123 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

Instrument :  
MSVOA\_D  
ClientSampled :

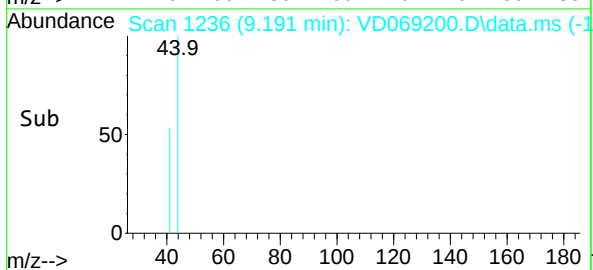
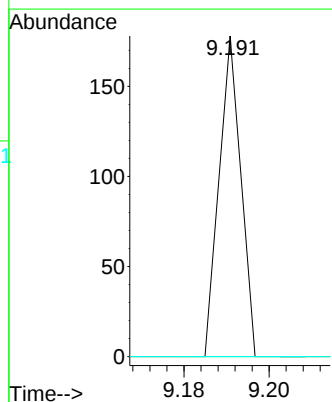
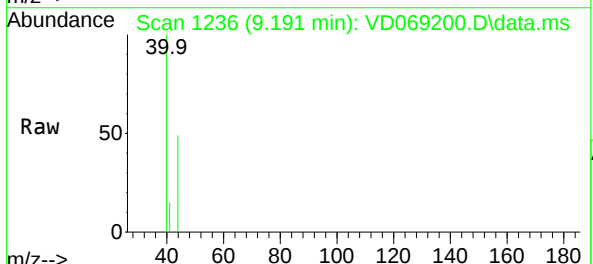


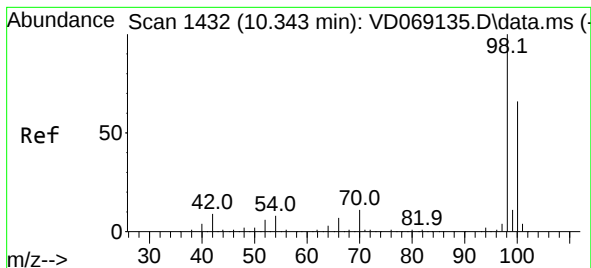
Tgt Ion:117 Resp: 116  
Ion Ratio Lower Upper  
117 100  
119 0.0 76.2 114.2#  
121 0.0 21.9 32.9#



#48  
Methyl methacrylate  
Concen: 3.63 ug/l  
RT: 9.191 min Scan# 1236  
Delta R.T. -0.270 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

Tgt Ion: 41 Resp: 63  
Ion Ratio Lower Upper  
41 100  
69 0.0 88.0 132.0#  
39 0.0 51.4 77.0#

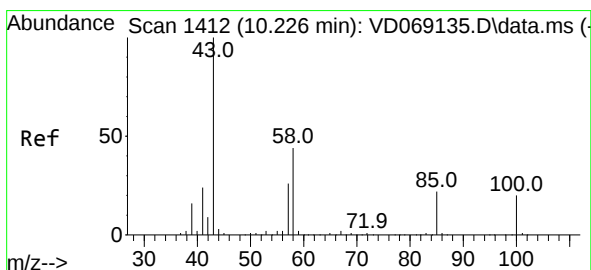
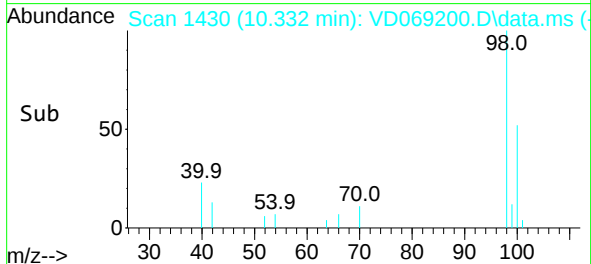
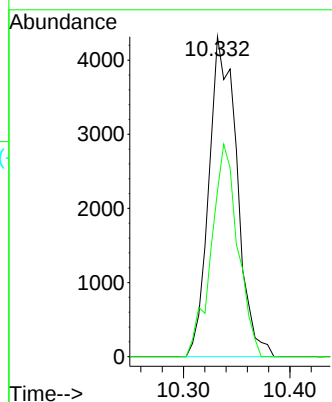
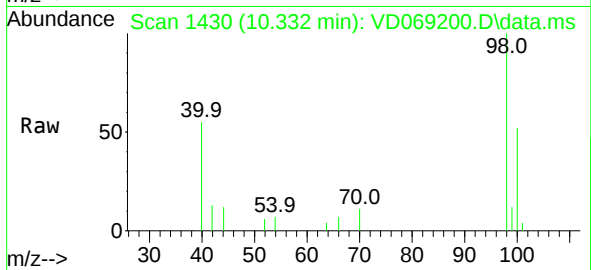




#50  
Toluene-d8  
Concen: 49.87 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.011 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

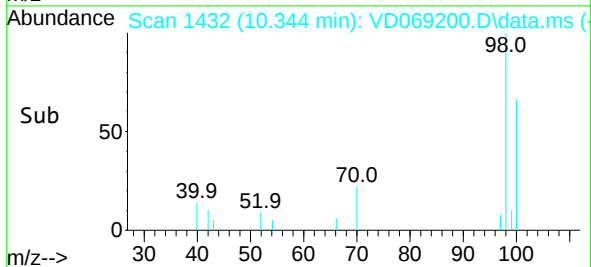
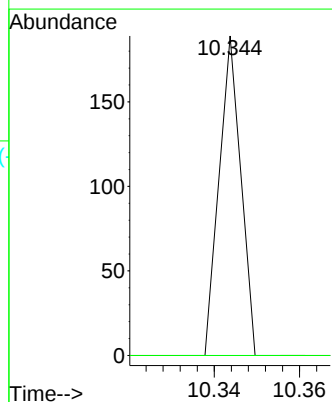
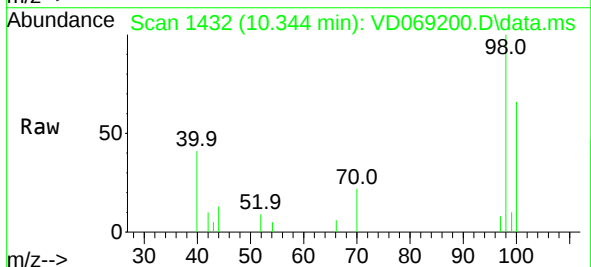
Instrument :  
MSVOA\_D  
ClientSampled :

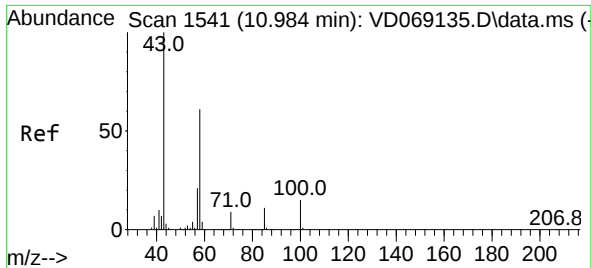
Tgt Ion: 98 Resp: 7889  
Ion Ratio Lower Upper  
98 100  
100 63.1 51.8 77.8



#51  
4-Methyl-2-Pentanone  
Concen: 3.47 ug/l  
RT: 10.344 min Scan# 1432  
Delta R.T. 0.118 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

Tgt Ion: 43 Resp: 67  
Ion Ratio Lower Upper  
43 100  
58 0.0 35.0 52.4#

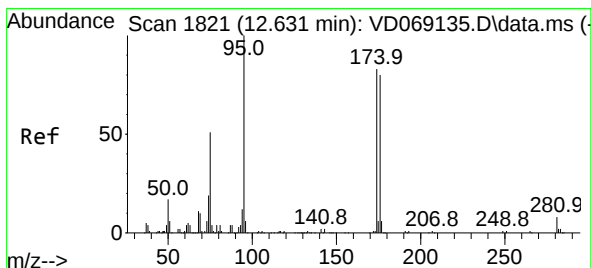
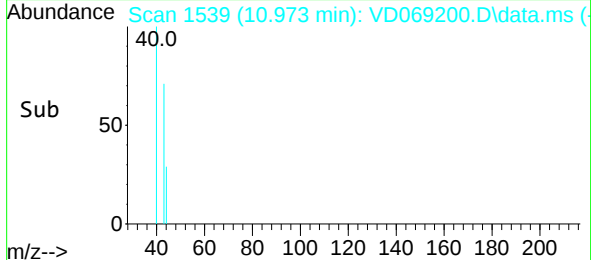
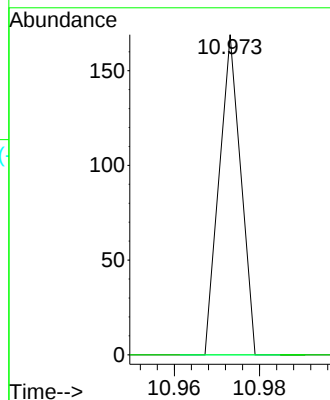
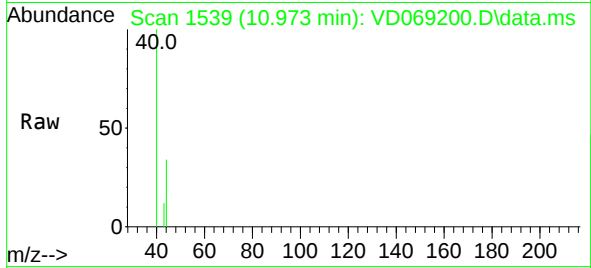




#59  
2-Hexanone  
Concen: 4.66 ug/l  
RT: 10.973 min Scan# 1539  
Delta R.T. -0.011 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

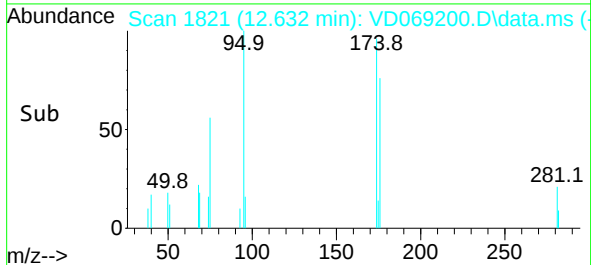
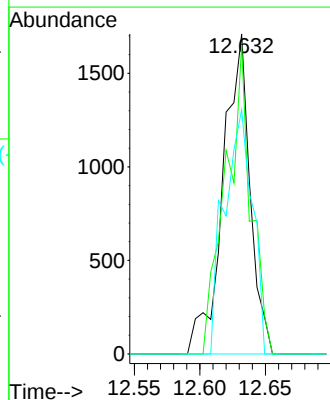
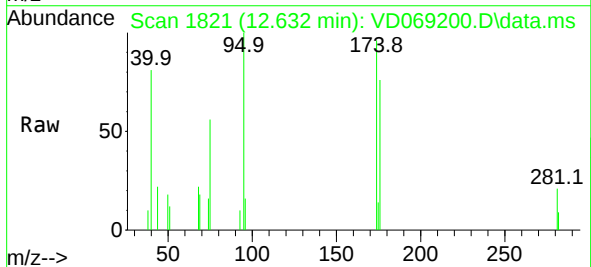
Instrument :  
MSVOA\_D  
ClientSampled :

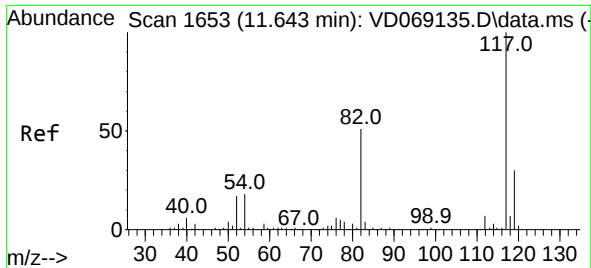
Tgt Ion: 43 Resp: 60  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.1 93.5#



#62  
4-Bromofluorobenzene  
Concen: 48.25 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. 0.000 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

Tgt Ion: 95 Resp: 2456  
Ion Ratio Lower Upper  
95 100  
174 90.8 0.0 171.8  
176 79.2 0.0 165.4

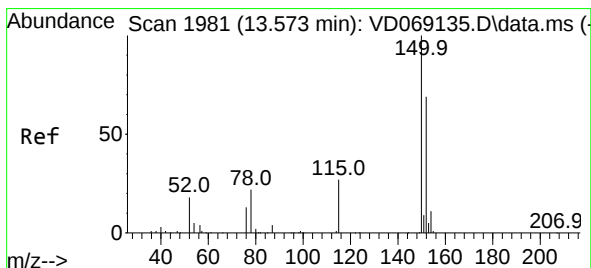
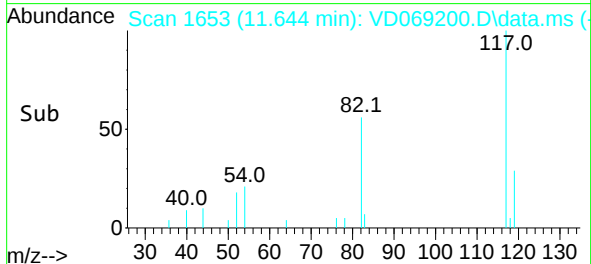
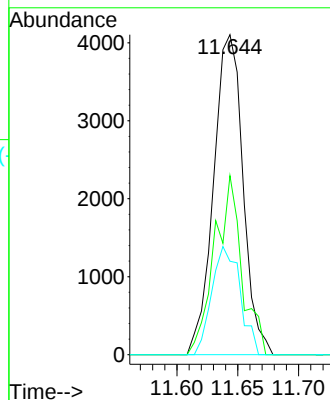
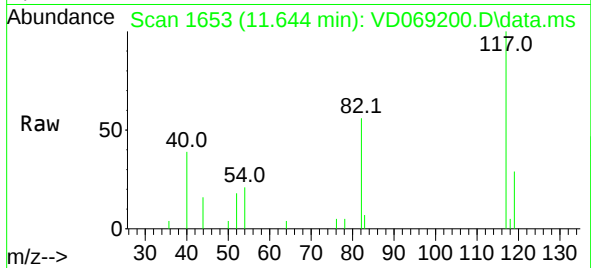




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.644 min Scan# 1653  
Delta R.T. 0.000 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

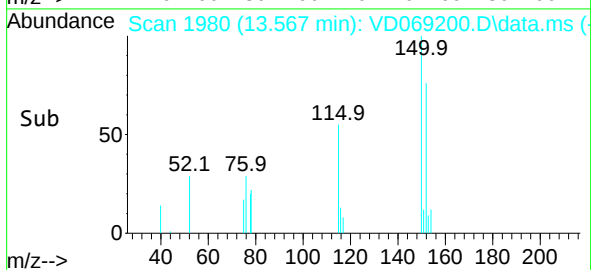
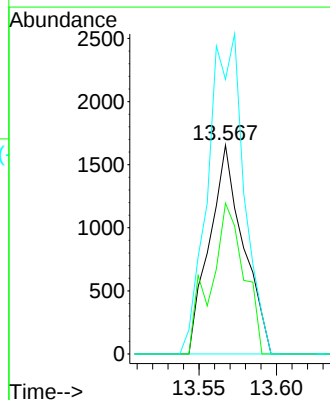
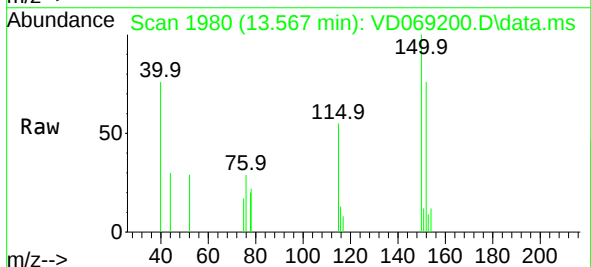
Instrument :  
MSVOA\_D  
ClientSampled :

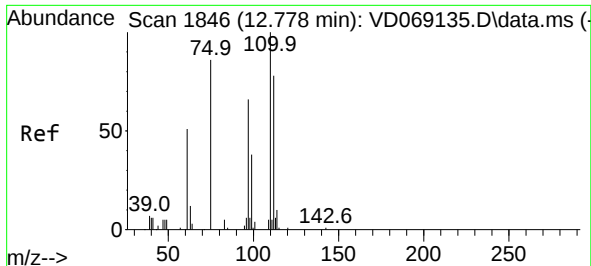
Tgt Ion:117 Resp: 6906  
Ion Ratio Lower Upper  
117 100  
82 56.0 40.5 60.7  
119 29.2 24.2 36.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. -0.005 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

Tgt Ion:152 Resp: 2512  
Ion Ratio Lower Upper  
152 100  
115 70.8 29.9 89.8  
150 163.1 0.0 350.2

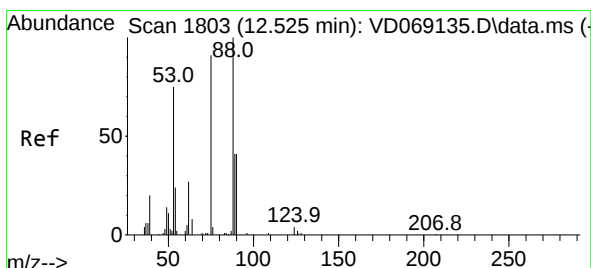
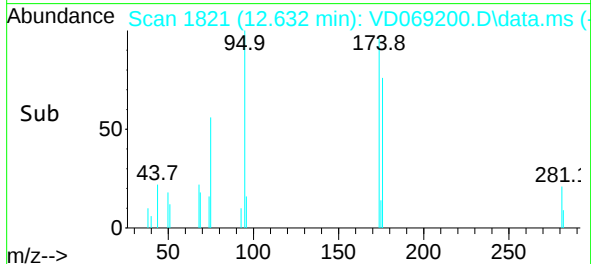
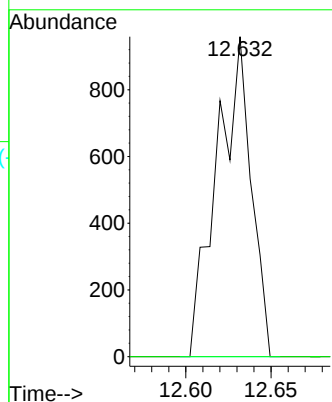
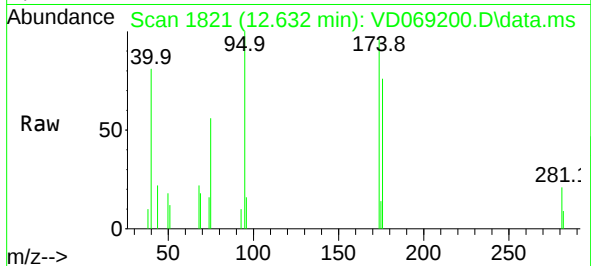




#76  
1,2,3-Trichloropropane  
Concen: 71.23 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. -0.147 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

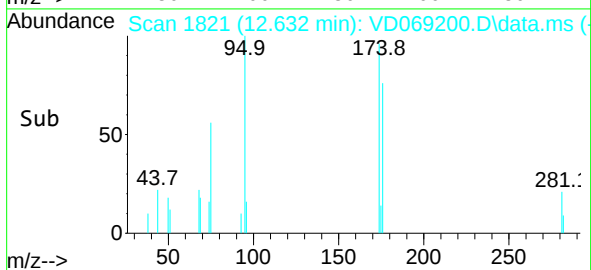
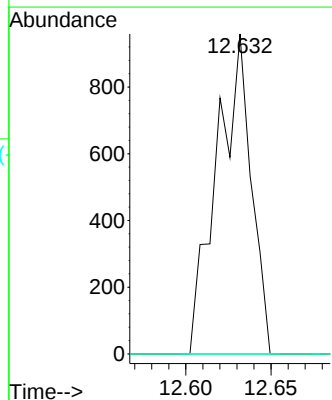
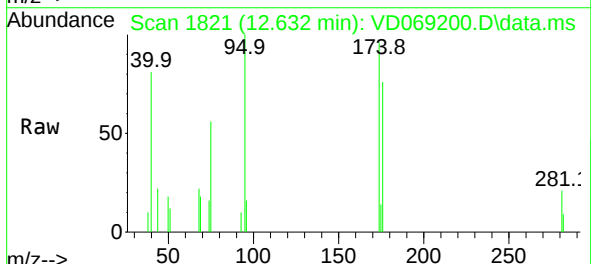
Instrument :  
MSVOA\_D  
ClientSampled :

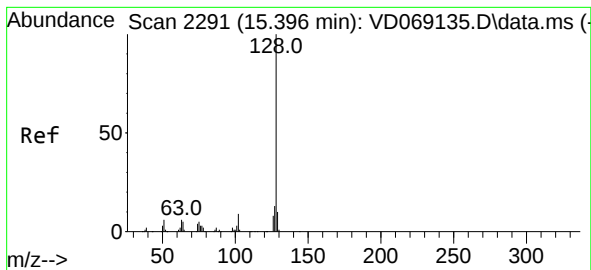
Tgt Ion: 75 Resp: 1345  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0



#81  
trans-1,4-Dichloro-2-butene  
Concen: 143.88 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. 0.106 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

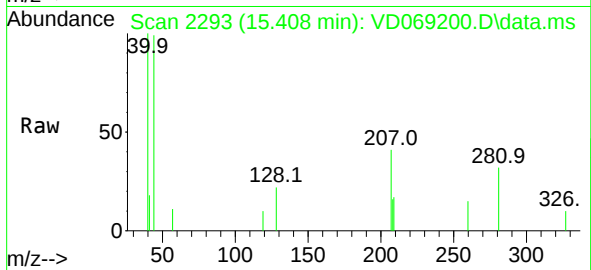
Tgt Ion: 75 Resp: 1345  
Ion Ratio Lower Upper  
75 100  
53 0.0 70.0 105.0#  
89 0.0 40.2 60.2#





#95  
Naphthalene  
Concen: 3.49 ug/l  
RT: 15.408 min Scan# 2293  
Delta R.T. 0.012 min  
Lab File: VD069200.D  
Acq: 19 May 2021 16:56

Instrument :  
MSVOA\_D  
ClientSampleId :



Tgt Ion:128 Resp: 124  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.5 15.7#  
129 0.0 8.9 13.3#

