

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072821\  
 Data File : VD069899.D  
 Acq On : 28 Jul 2021 20:12  
 Operator : VA/SY  
 Sample : M3206-01  
 Misc : 8.83G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jul 29 04:03:27 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 23 04:51:13 2021  
 Response via : Initial Calibration

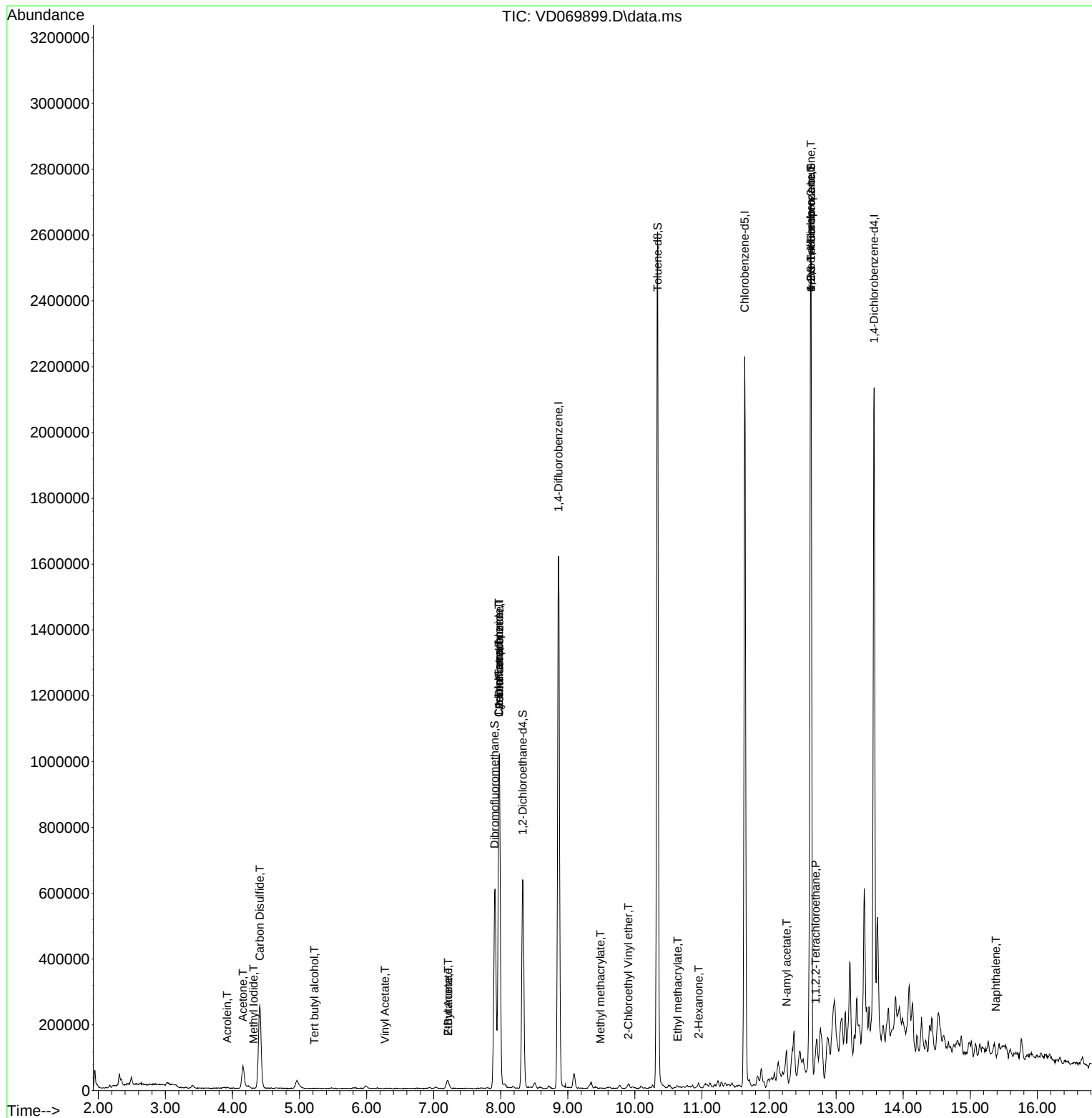
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 714957              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 1405463             | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 1268466             | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567         | 152  | 531173              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 500556              | 60.875    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 121.760% |           |        |          |
| 35) Dibromofluoromethane      | 7.909          | 113  | 457896              | 51.681    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 103.360% |           |        |          |
| 50) Toluene-d8                | 10.338         | 98   | 1766632             | 51.711    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 103.420% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 623529              | 54.611    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 109.220% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 5) Bromomethane               | 2.779          | 94   | 1687                | Below Cal | #      | 64       |
| 10) Methyl Iodide             | 4.315          | 142  | 57                  | 3.468     | ug/l # | 1        |
| 11) Tert butyl alcohol        | 5.220          | 59   | 496                 | 1.166     | ug/l   | 98       |
| 13) Acrolein                  | 3.921          | 56   | 3672                | 6.165     | ug/l   | 86       |
| 16) Acetone                   | 4.156          | 43   | 114285              | 76.939    | ug/l   | 94       |
| 17) Carbon Disulfide          | 4.409          | 76   | 562816              | 19.243    | ug/l   | 97       |
| 20) Methylene Chloride        | 4.950          | 84   | 18264               | Below Cal | #      | 78       |
| 23) Vinyl Acetate             | 6.273          | 43   | 73                  | 20.354    | ug/l # | 71       |
| 25) 2-Butanone                | 7.214          | 43   | 32264               | 16.017    | ug/l   | 96       |
| 31) Cyclohexane               | 7.973          | 56   | 22812               | 1.420     | ug/l # | 13       |
| 36) 1,1-Dichloropropene       | 7.973          | 75   | 65895               | 4.345     | ug/l # | 45       |
| 37) Ethyl Acetate             | 7.214          | 43   | 32264               | 5.843     | ug/l # | 68       |
| 38) Carbon Tetrachloride      | 7.973          | 117  | 78869               | 5.693     | ug/l # | 16       |
| 48) Methyl methacrylate       | 9.485          | 41   | 587                 | 2.852     | ug/l # | 48       |
| 56) Ethyl methacrylate        | 10.638         | 69   | 2367                | 4.116     | ug/l   | 90       |
| 58) 2-Chloroethyl Vinyl ether | 9.903          | 63   | 58                  | 20.882    | ug/l # | 48       |
| 59) 2-Hexanone                | 10.950         | 43   | 5539                | 1.625     | ug/l # | 28       |
| 74) N-amyl acetate            | 12.261         | 43   | 22451               | 2.860     | ug/l # | 70       |
| 75) 1,1,2,2-Tetrachloroethane | 12.697         | 83   | 9463                | 1.242     | ug/l # | 4        |
| 76) 1,2,3-Trichloropropane    | 12.626         | 75   | 310886              | 55.063    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626         | 75   | 310886              | 167.047   | ug/l # | 18       |
| 95) Naphthalene               | 15.385         | 128  | 2932                | 5.151     | ug/l # | 74       |
| -----                         |                |      |                     |           |        |          |

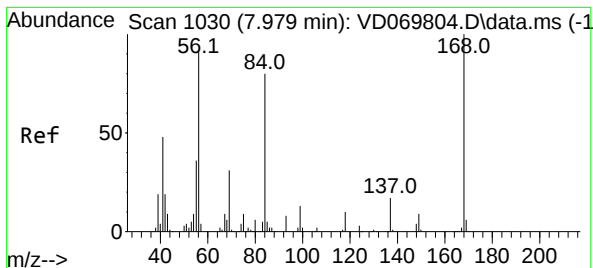
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072821\  
Data File : VD069899.D  
Acq On : 28 Jul 2021 20:12  
Operator : VA/SY  
Sample : M3206-01  
Misc : 8.83G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Jul 29 04:03:27 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 23 04:51:13 2021  
Response via : Initial Calibration

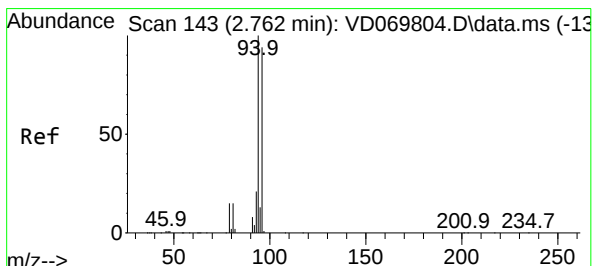
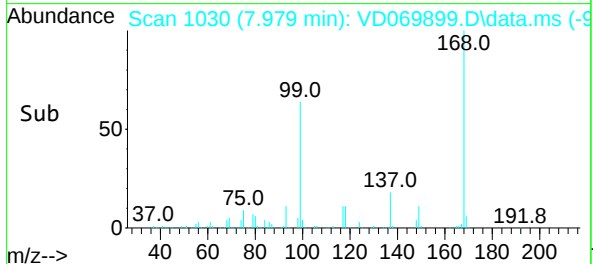
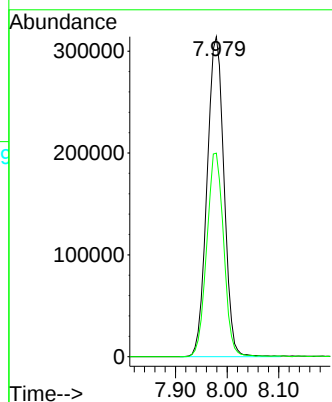
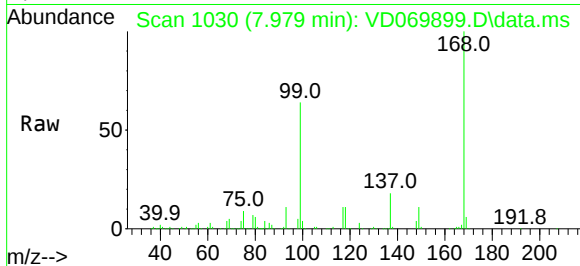




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. 0.000 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

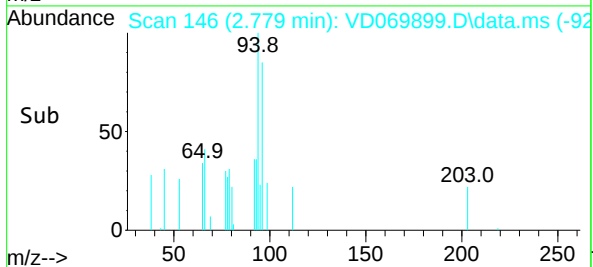
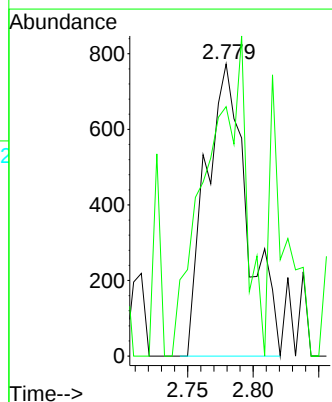
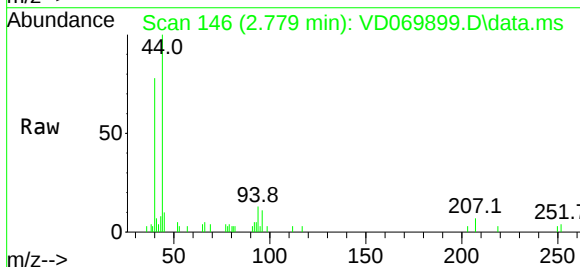
Instrument :  
MSVOA\_D  
ClientSampleId :

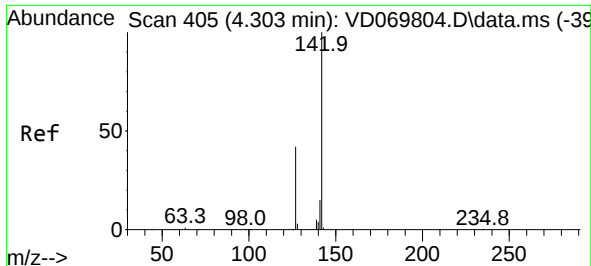
Tgt Ion:168 Resp: 714957  
Ion Ratio Lower Upper  
168 100  
99 63.6 51.1 76.7



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.779 min Scan# 146  
Delta R.T. 0.017 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

Tgt Ion: 94 Resp: 1687  
Ion Ratio Lower Upper  
94 100  
96 59.2 74.8 112.2#

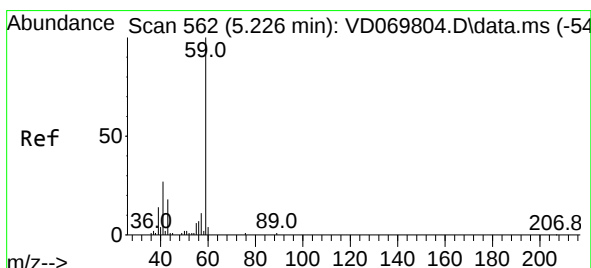
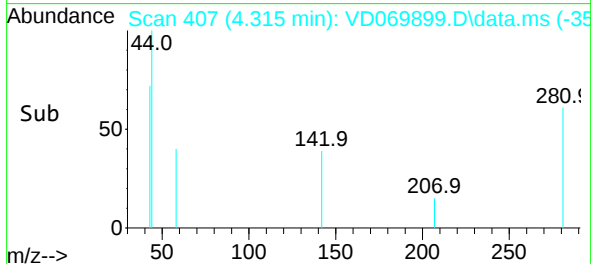
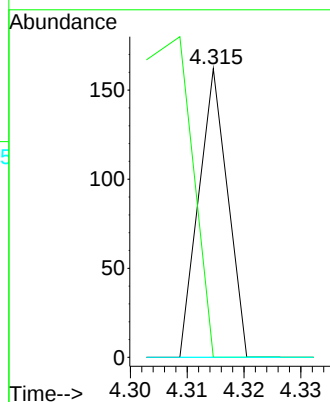
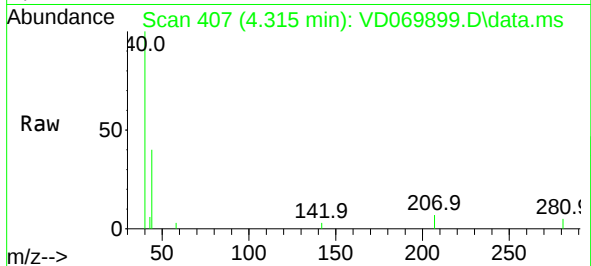




#10  
Methyl Iodide  
Concen: 3.468 ug/l  
RT: 4.315 min Scan# 407  
Delta R.T. 0.012 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

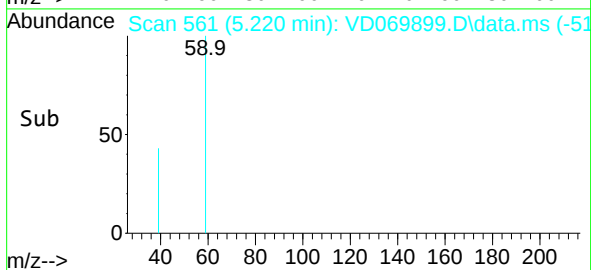
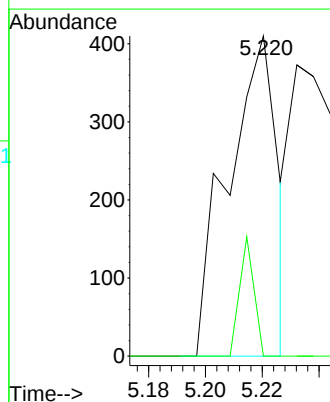
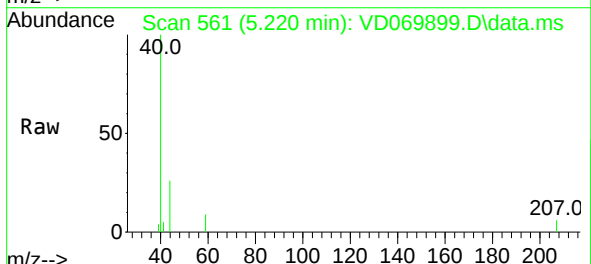
Instrument :  
MSVOA\_D  
ClientSampleId :

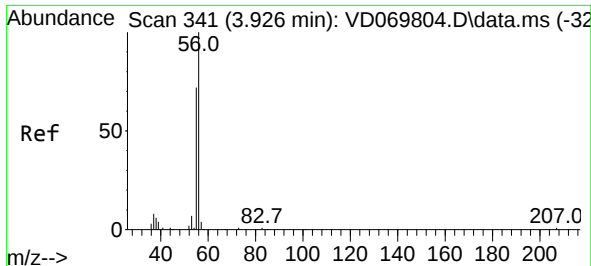
Tgt Ion:142 Resp: 57  
Ion Ratio Lower Upper  
142 100  
127 308.8 35.7 53.5#  
141 0.0 12.0 18.0#



#11  
Tert butyl alcohol  
Concen: 1.166 ug/l  
RT: 5.220 min Scan# 561  
Delta R.T. -0.006 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

Tgt Ion: 59 Resp: 496  
Ion Ratio Lower Upper  
59 100  
57 10.9 8.1 12.1

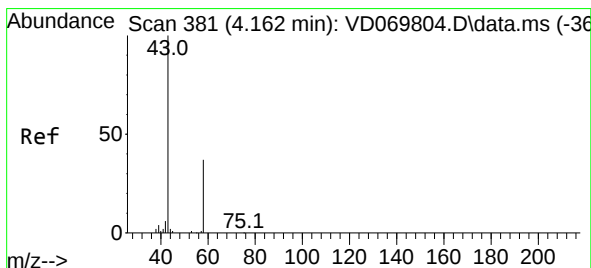
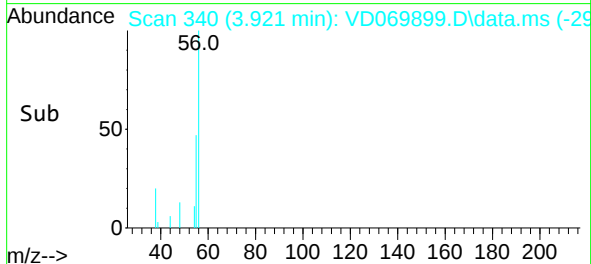
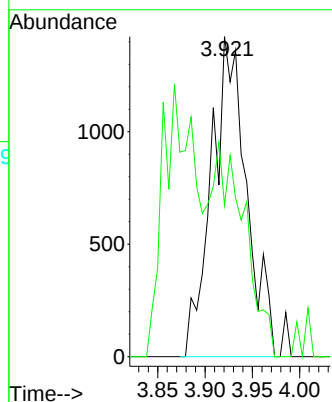
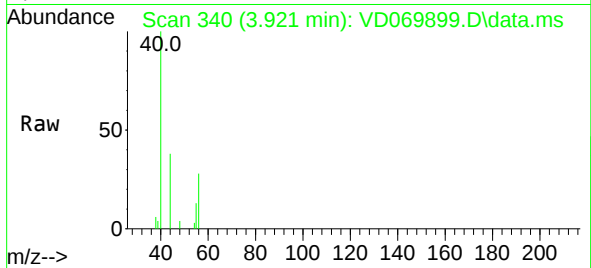




#13  
Acrolein  
Concen: 6.165 ug/l  
RT: 3.921 min Scan# 340  
Delta R.T. -0.006 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

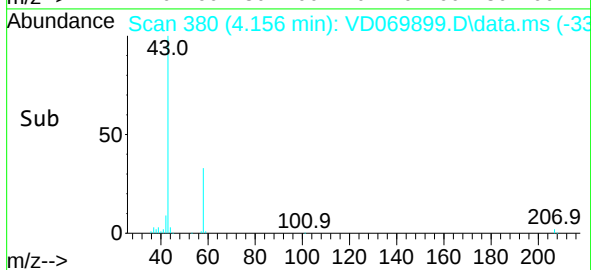
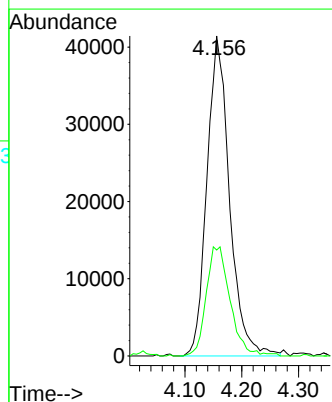
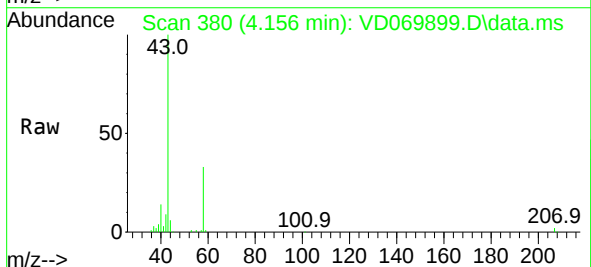
Instrument :  
MSVOA\_D  
ClientSampleId :

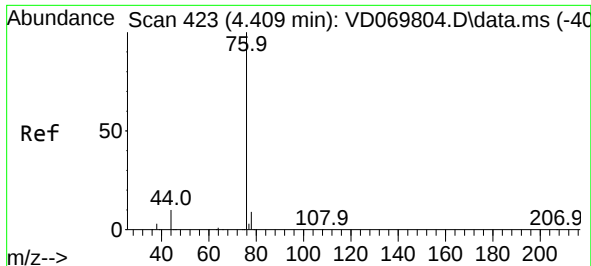
Tgt Ion: 56 Resp: 3672  
Ion Ratio Lower Upper  
56 100  
55 59.8 57.2 85.8



#16  
Acetone  
Concen: 76.939 ug/l  
RT: 4.156 min Scan# 380  
Delta R.T. -0.006 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

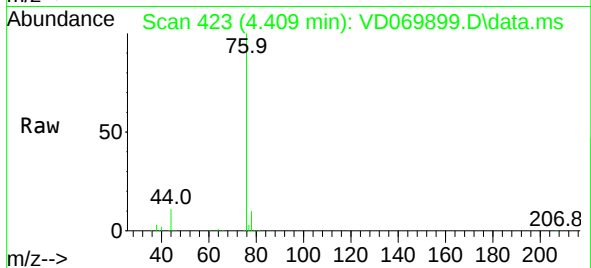
Tgt Ion: 43 Resp: 114285  
Ion Ratio Lower Upper  
43 100  
58 33.1 29.4 44.0



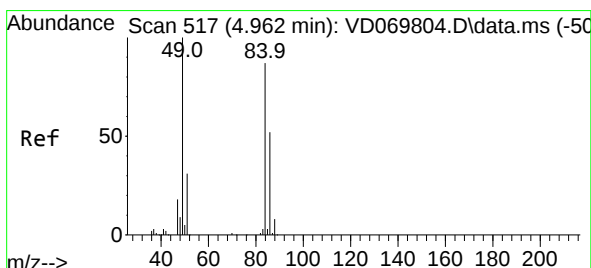
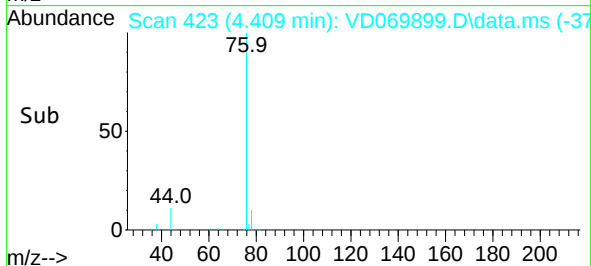
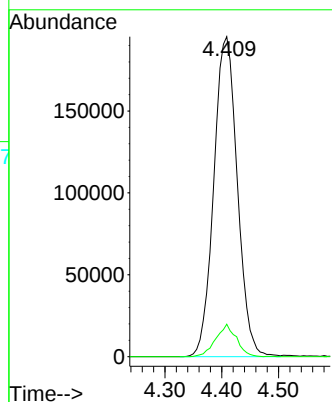


#17  
Carbon Disulfide  
Concen: 19.243 ug/l  
RT: 4.409 min Scan# 423  
Delta R.T. -0.000 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

Instrument :  
MSVOA\_D  
ClientSampled :

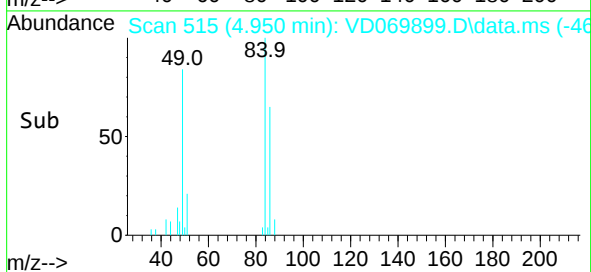
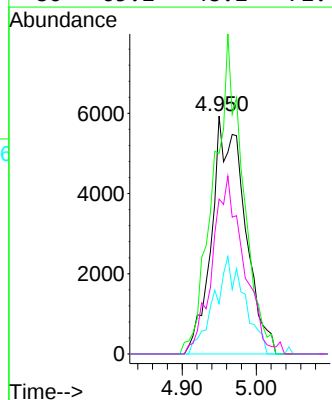
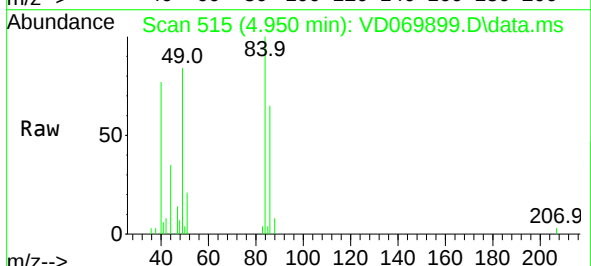


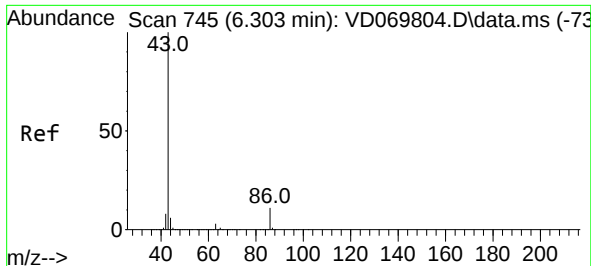
Tgt Ion: 76 Resp: 562816  
Ion Ratio Lower Upper  
76 100  
78 10.1 7.3 10.9



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.950 min Scan# 515  
Delta R.T. -0.012 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

Tgt Ion: 84 Resp: 18264  
Ion Ratio Lower Upper  
84 100  
49 84.4 92.4 138.6#  
51 21.2 28.5 42.7#  
86 65.2 48.2 72.4

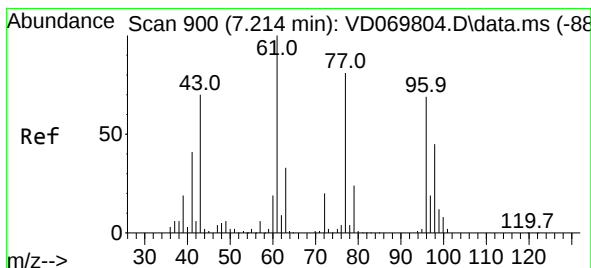
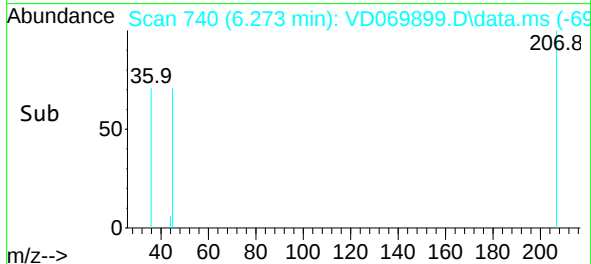
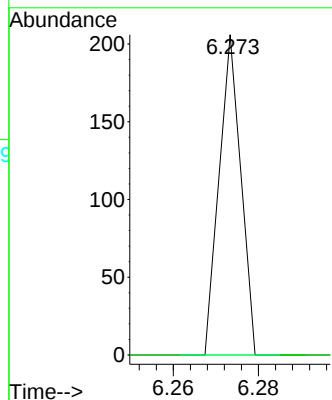
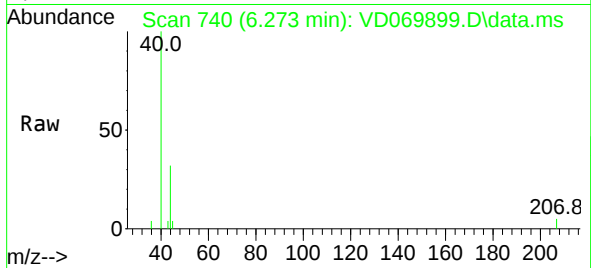




#23  
 Vinyl Acetate  
 Concen: 20.354 ug/l  
 RT: 6.273 min Scan# 740  
 Delta R.T. -0.030 min  
 Lab File: VD069899.D  
 Acq: 28 Jul 2021 20:12

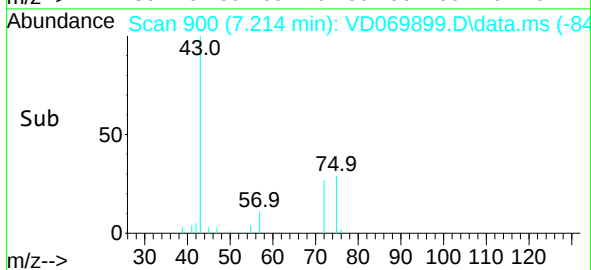
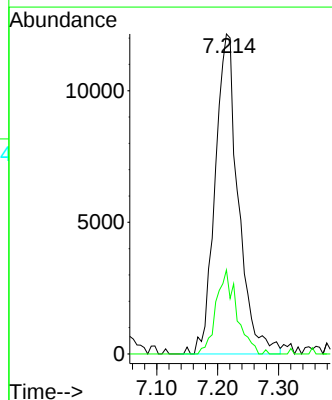
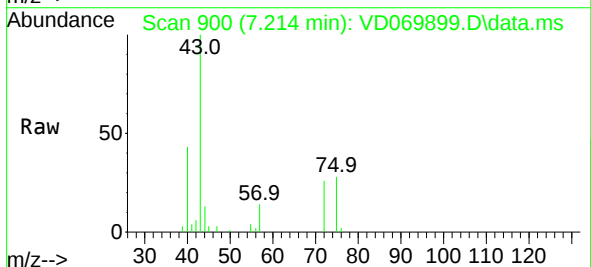
Instrument :  
 MSVOA\_D  
 ClientSampled :

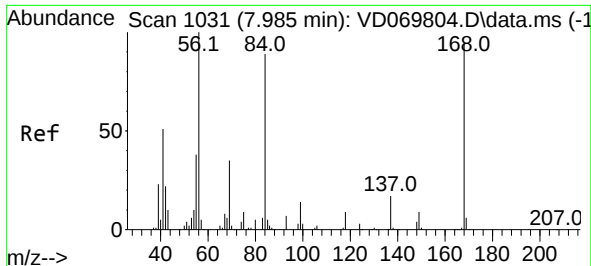
Tgt Ion: 43 Resp: 73  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 8.6 13.0#



#25  
 2-Butanone  
 Concen: 16.017 ug/l  
 RT: 7.214 min Scan# 900  
 Delta R.T. -0.000 min  
 Lab File: VD069899.D  
 Acq: 28 Jul 2021 20:12

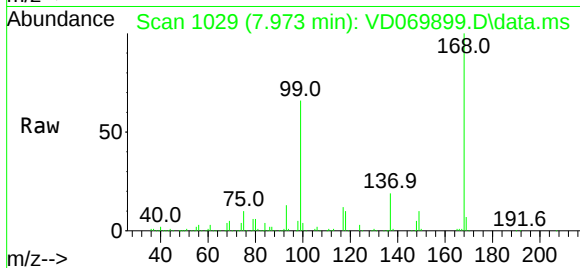
Tgt Ion: 43 Resp: 32264  
 Ion Ratio Lower Upper  
 43 100  
 72 26.2 22.8 34.2



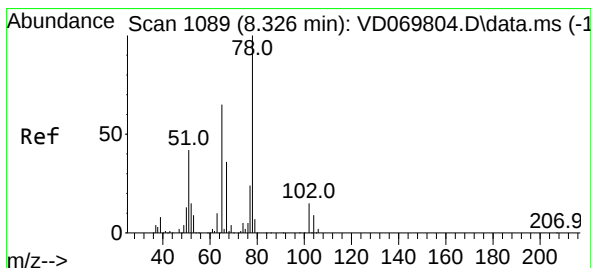
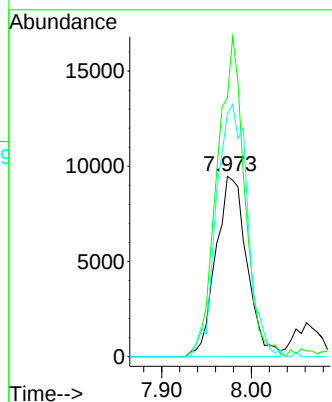
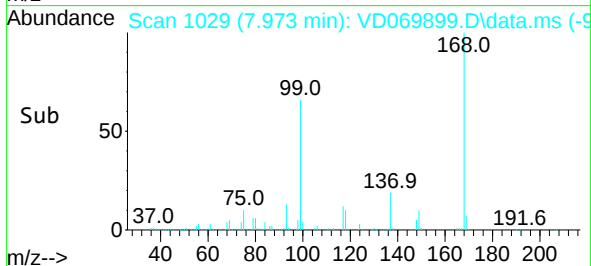


#31  
Cyclohexane  
Concen: 1.420 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.012 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

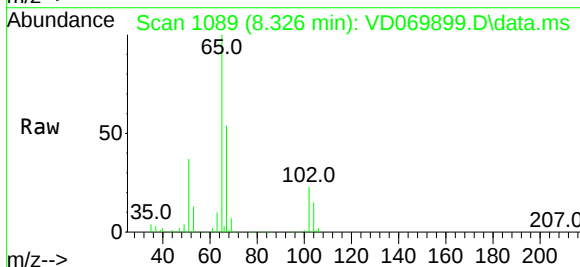
Instrument :  
MSVOA\_D  
ClientSampleId :



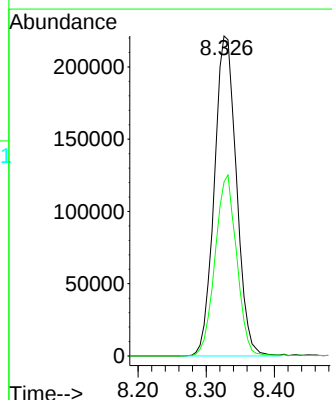
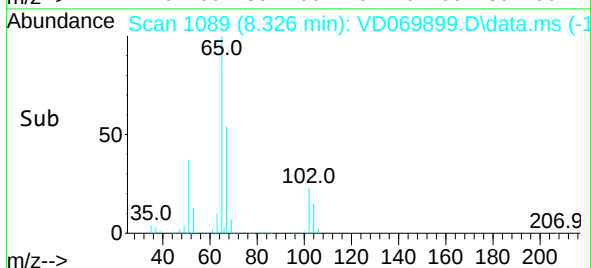
Tgt Ion: 56 Resp: 22812  
Ion Ratio Lower Upper  
56 100  
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84 134.6 71.4 107.2#

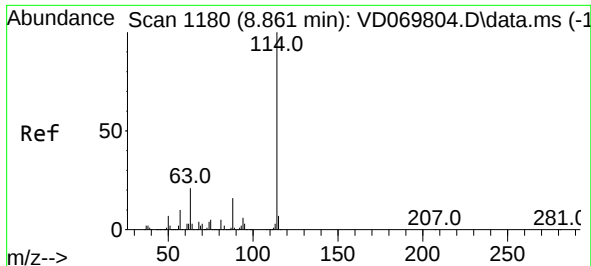


#33  
1,2-Dichloroethane-d4  
Concen: 60.875 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. -0.000 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12



Tgt Ion: 65 Resp: 500556  
Ion Ratio Lower Upper  
65 100  
67 55.0 0.0 111.2

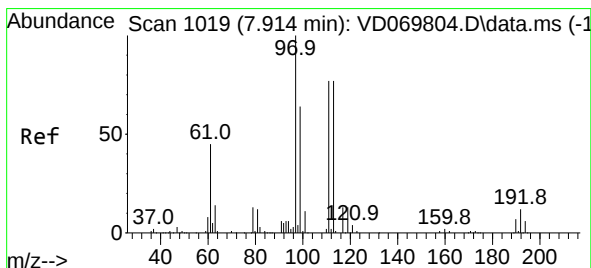
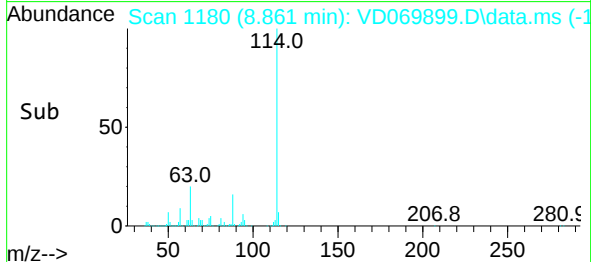
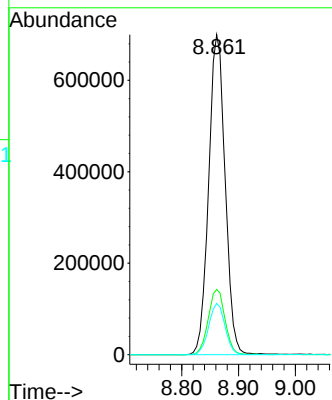
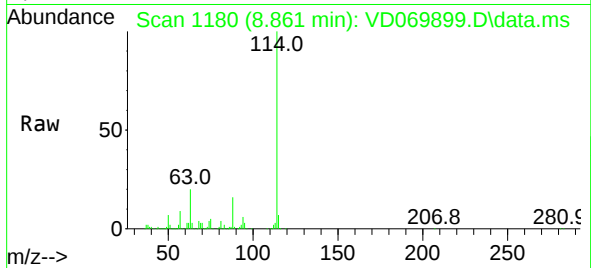




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

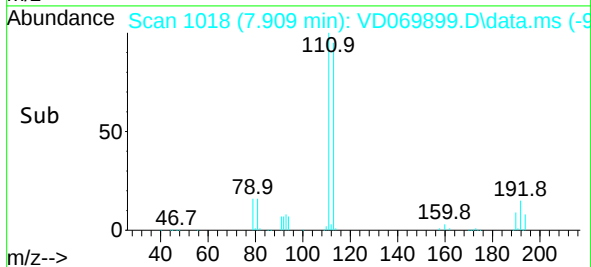
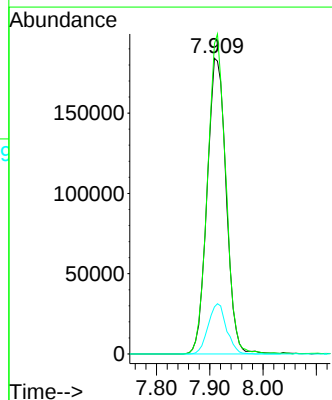
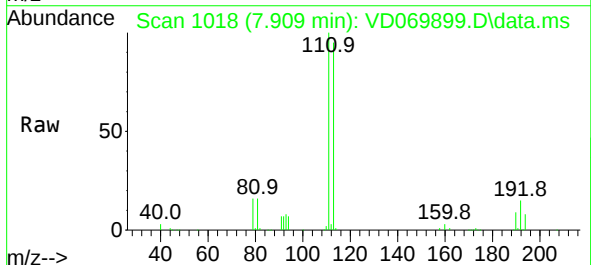
Instrument :  
MSVOA\_D  
ClientSampled :

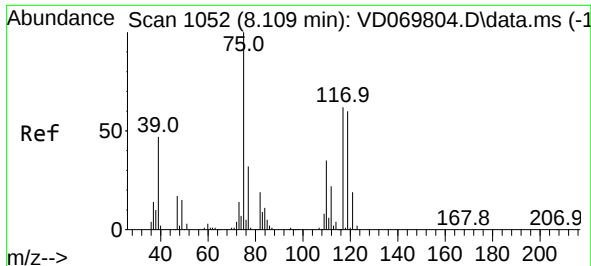
Tgt Ion:114 Resp: 1405463  
Ion Ratio Lower Upper  
114 100  
63 20.4 0.0 41.6  
88 16.0 0.0 31.4



#35  
Dibromofluoromethane  
Concen: 51.681 ug/l  
RT: 7.909 min Scan# 1018  
Delta R.T. -0.006 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

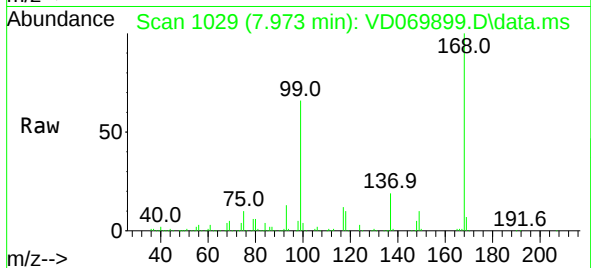
Tgt Ion:113 Resp: 457896  
Ion Ratio Lower Upper  
113 100  
111 103.1 80.5 120.7  
192 16.2 12.6 19.0



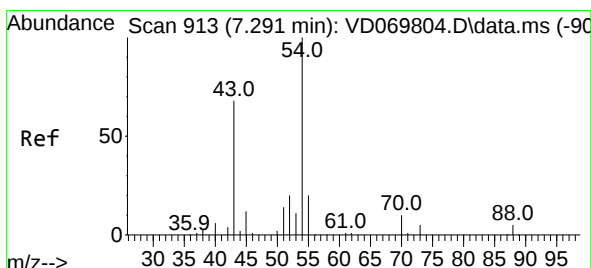
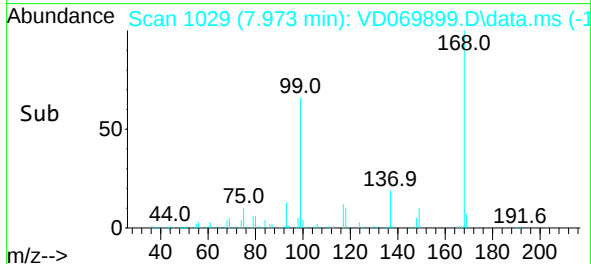
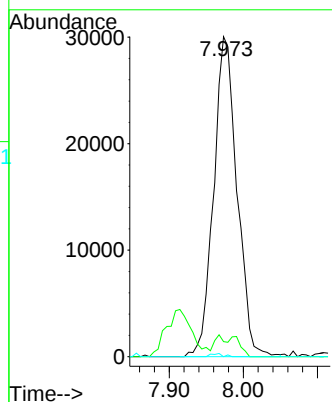


#36  
1,1-Dichloropropene  
Concen: 4.345 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.135 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

Instrument :  
MSVOA\_D  
ClientSampled :

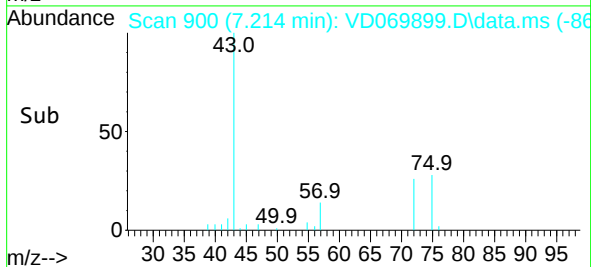
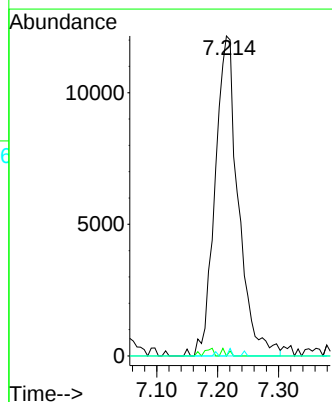
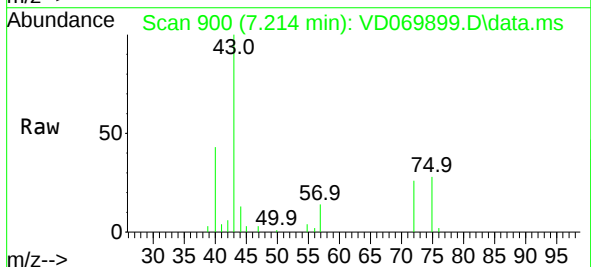


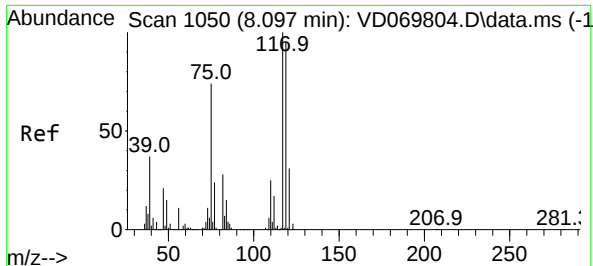
Tgt Ion: 75 Resp: 65895  
Ion Ratio Lower Upper  
75 100  
110 2.2 16.9 50.7#  
77 0.5 24.9 37.3#



#37  
Ethyl Acetate  
Concen: 5.843 ug/l  
RT: 7.214 min Scan# 900  
Delta R.T. -0.077 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

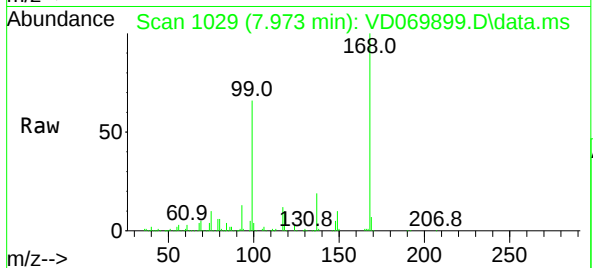
Tgt Ion: 43 Resp: 32264  
Ion Ratio Lower Upper  
43 100  
61 0.5 11.8 17.8#  
70 0.3 8.9 13.3#



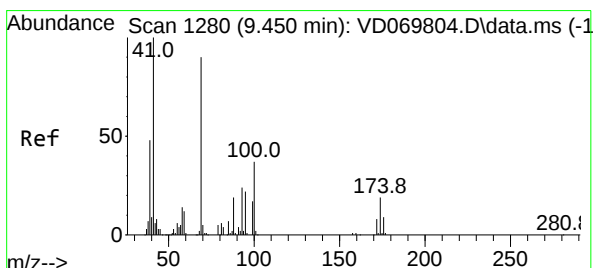
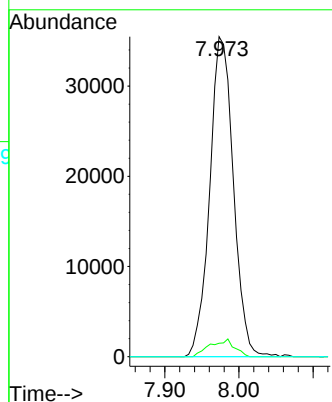
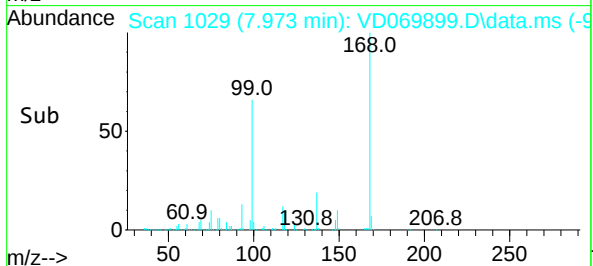


#38  
Carbon Tetrachloride  
Concen: 5.693 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.124 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

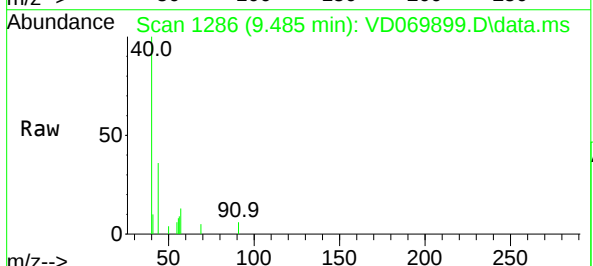
Instrument :  
MSVOA\_D  
ClientSampleId :



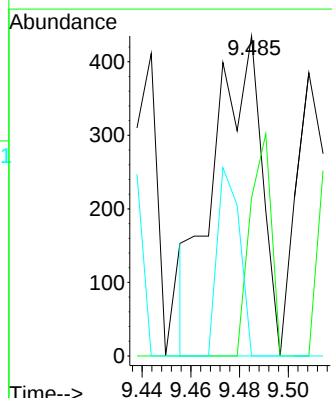
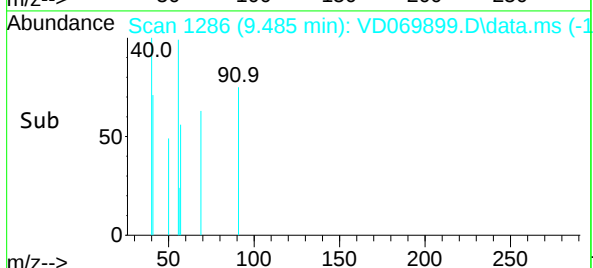
Tgt Ion:117 Resp: 78869  
Ion Ratio Lower Upper  
117 100  
119 4.2 76.2 114.2#  
121 0.0 24.5 36.7#

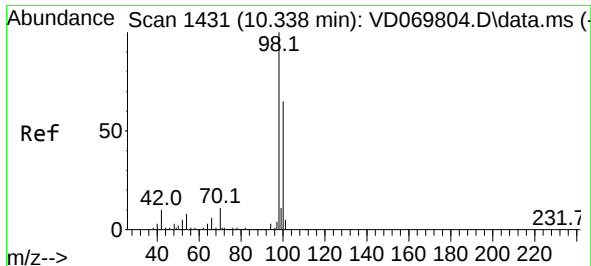


#48  
Methyl methacrylate  
Concen: 2.852 ug/l  
RT: 9.485 min Scan# 1286  
Delta R.T. 0.035 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12



Tgt Ion: 41 Resp: 587  
Ion Ratio Lower Upper  
41 100  
69 31.0 73.4 110.2#  
39 27.8 36.6 55.0#

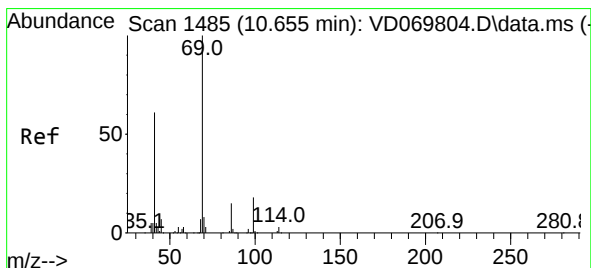
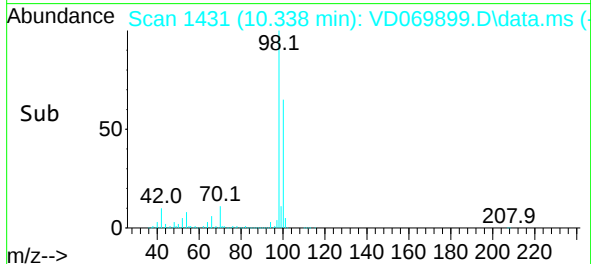
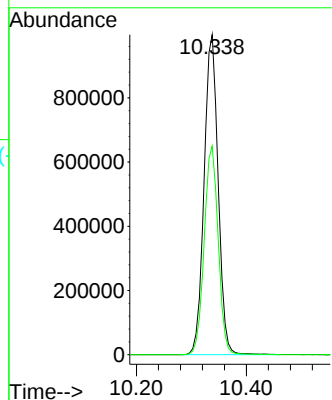
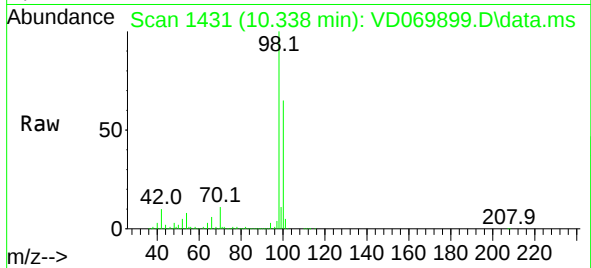




#50  
Toluene-d8  
Concen: 51.711 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

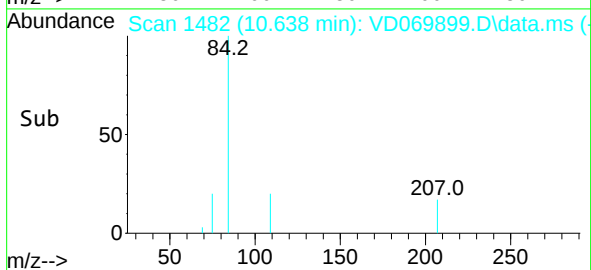
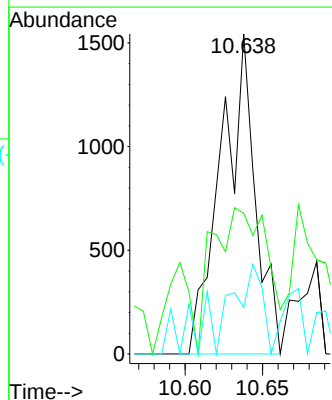
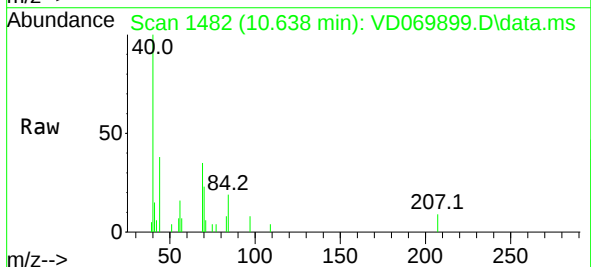
Instrument :  
MSVOA\_D  
ClientSampled :

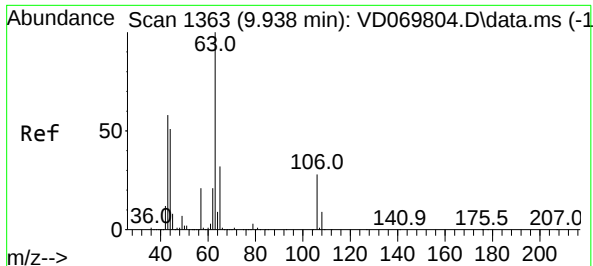
Tgt Ion: 98 Resp: 1766632  
Ion Ratio Lower Upper  
98 100  
100 65.1 51.9 77.9



#56  
Ethyl methacrylate  
Concen: 4.116 ug/l  
RT: 10.638 min Scan# 1482  
Delta R.T. -0.017 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

Tgt Ion: 69 Resp: 2367  
Ion Ratio Lower Upper  
69 100  
41 73.3 50.2 75.2  
39 27.7 22.0 33.0

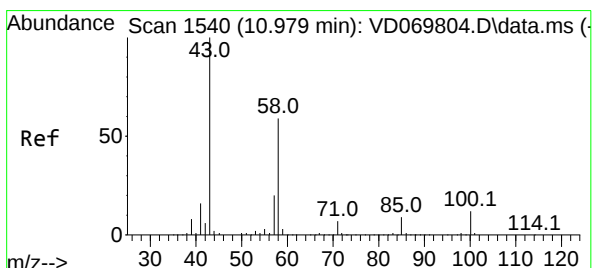
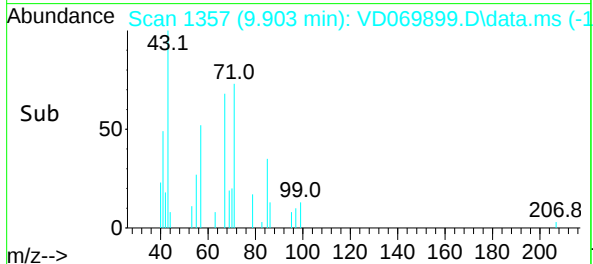
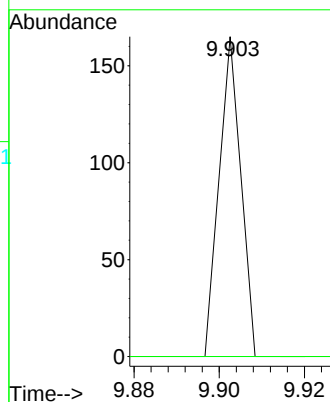
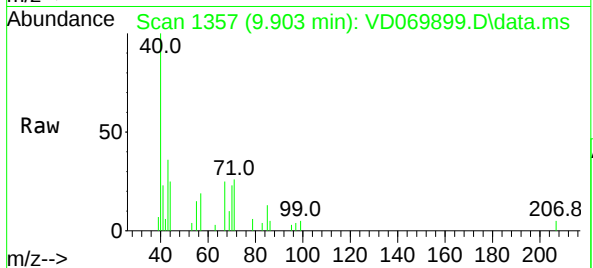




#58  
2-Chloroethyl Vinyl ether  
Concen: 20.882 ug/l  
RT: 9.903 min Scan# 1357  
Delta R.T. -0.035 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

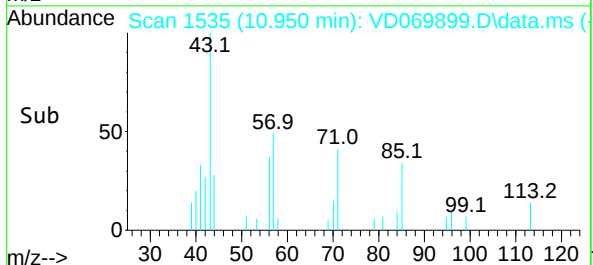
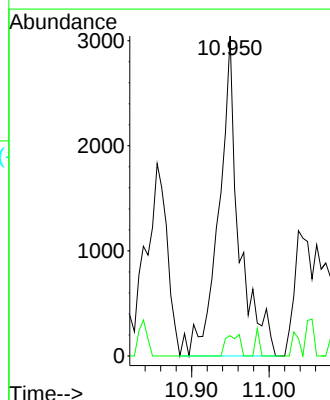
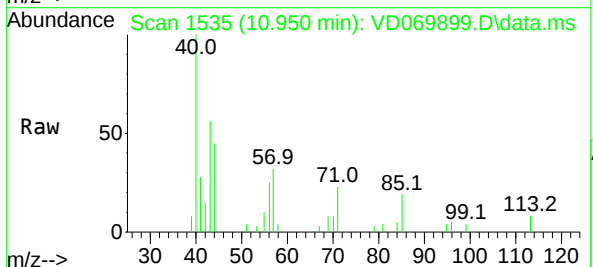
Instrument :  
MSVOA\_D  
ClientSampled :

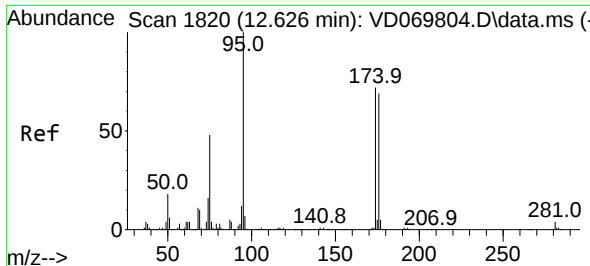
Tgt Ion: 63 Resp: 58  
Ion Ratio Lower Upper  
63 100  
106 0.0 21.8 32.6#



#59  
2-Hexanone  
Concen: 1.625 ug/l  
RT: 10.950 min Scan# 1535  
Delta R.T. -0.029 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

Tgt Ion: 43 Resp: 5539  
Ion Ratio Lower Upper  
43 100  
58 4.7 29.4 88.3#

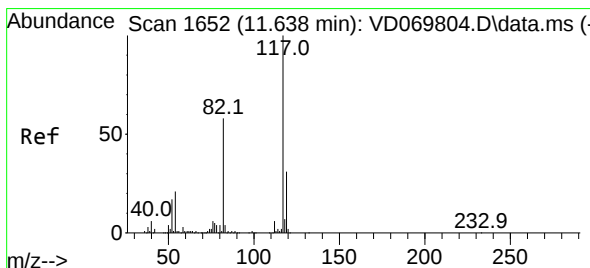
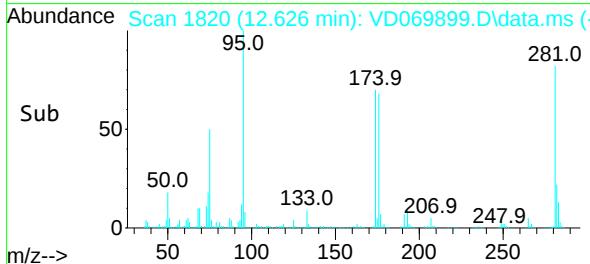
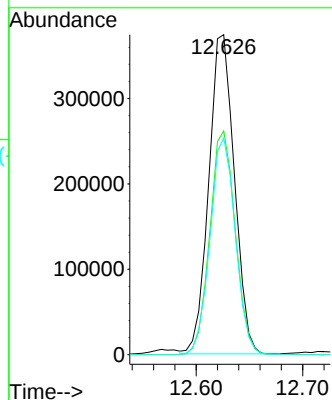
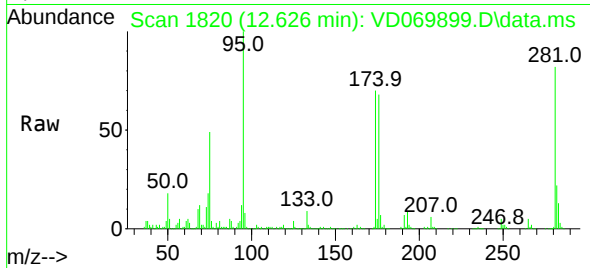




#62  
4-Bromofluorobenzene  
Concen: 54.611 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

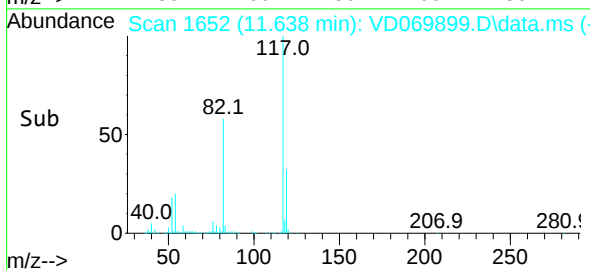
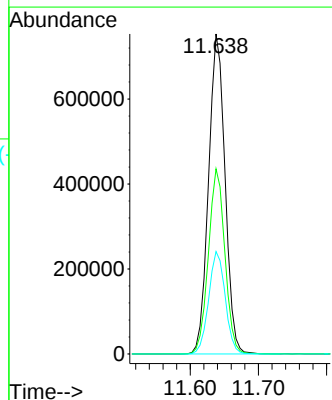
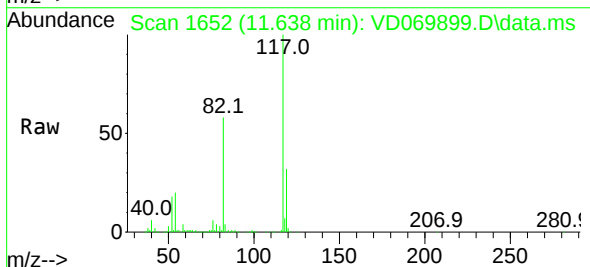
Instrument :  
MSVOA\_D  
ClientSampleId :

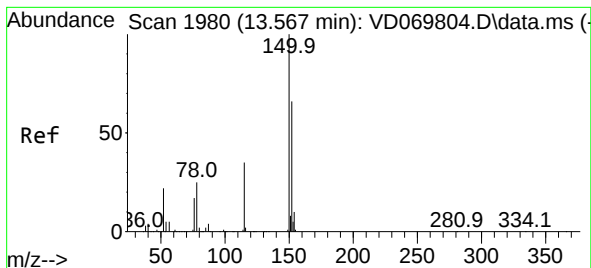
Tgt Ion: 95 Resp: 623529  
Ion Ratio Lower Upper  
95 100  
174 69.7 0.0 142.6  
176 67.0 0.0 134.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

Tgt Ion: 117 Resp: 1268466  
Ion Ratio Lower Upper  
117 100  
82 57.9 46.3 69.5  
119 32.0 24.7 37.1

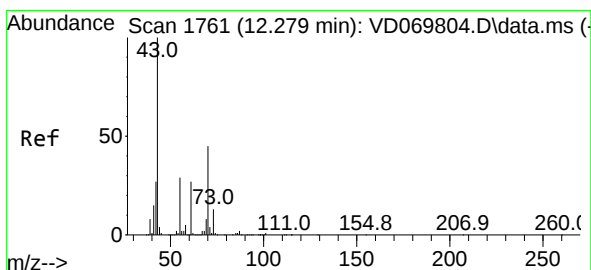
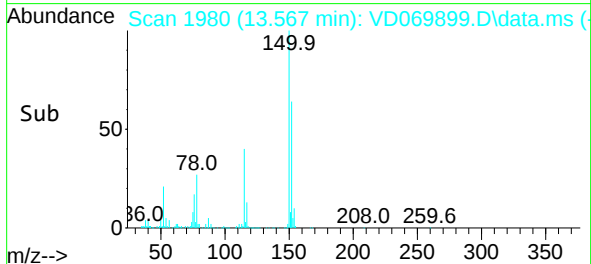
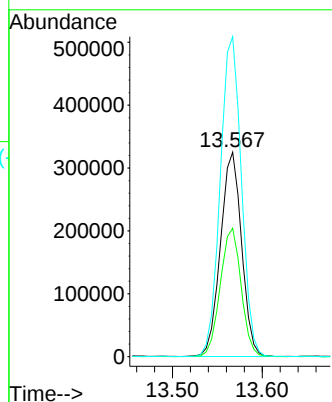
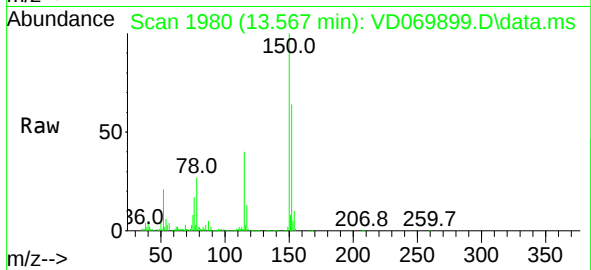




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. -0.000 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

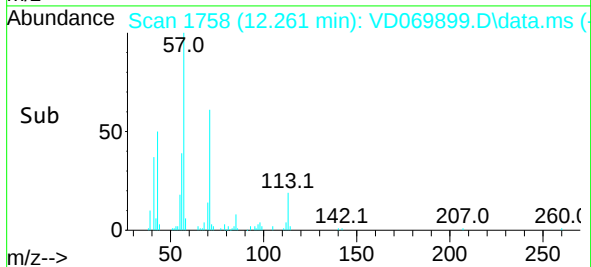
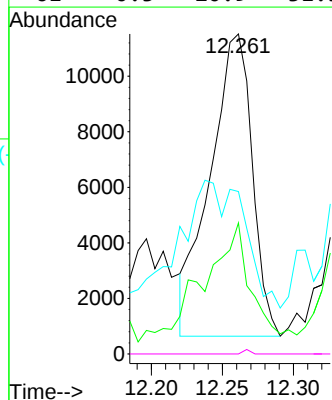
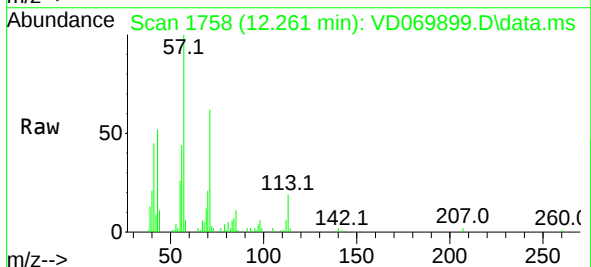
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MSVOA\_D  
ClientSampleId :

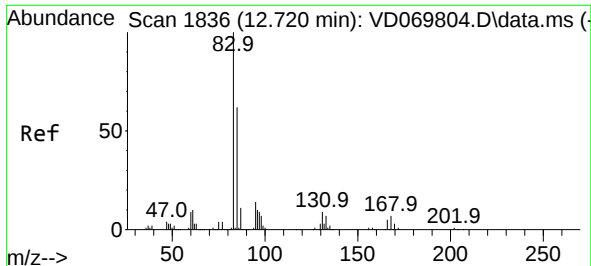
Tgt Ion:152 Resp: 531173  
Ion Ratio Lower Upper  
152 100  
115 62.3 31.1 93.3  
150 156.7 0.0 343.0



#74  
N-ethyl acetate  
Concen: 2.860 ug/l  
RT: 12.261 min Scan# 1758  
Delta R.T. -0.018 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

Tgt Ion: 43 Resp: 22451  
Ion Ratio Lower Upper  
43 100  
70 44.7 37.9 56.9  
55 0.0 23.7 35.5#  
61 0.3 20.9 31.3#

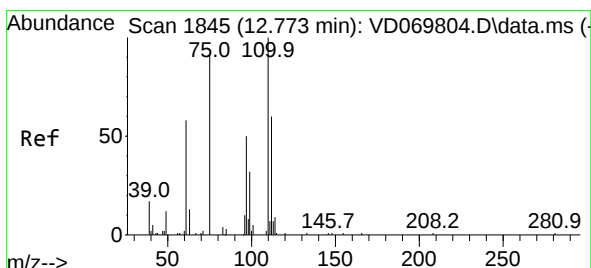
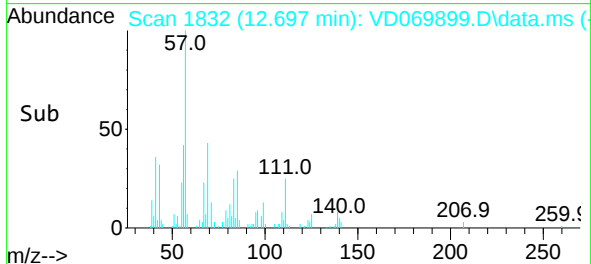
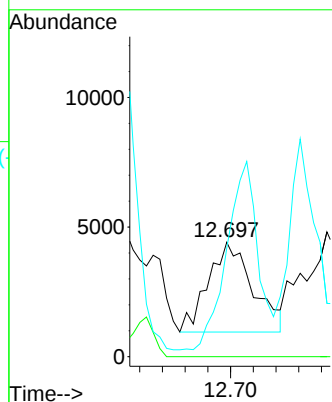
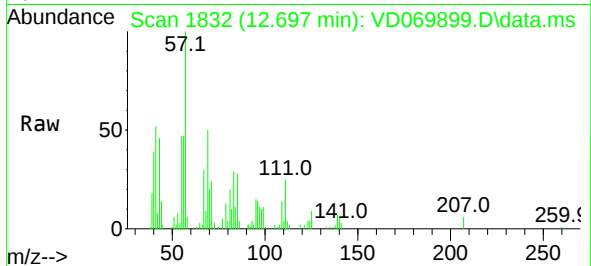




#75  
1,1,2,2-Tetrachloroethane  
Concen: 1.242 ug/l  
RT: 12.697 min Scan# 1832  
Delta R.T. -0.024 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

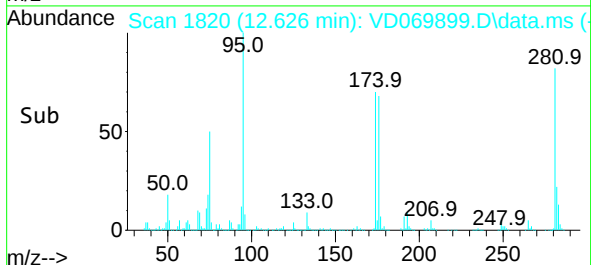
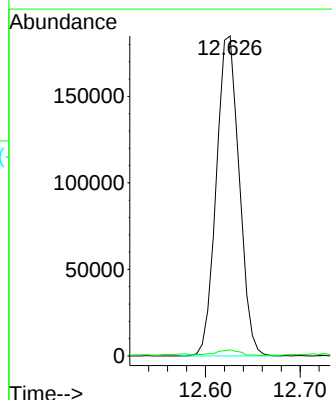
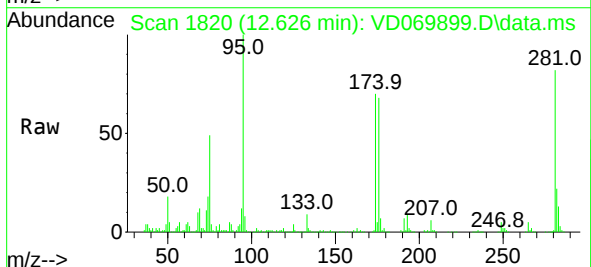
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MSVOA\_D  
ClientSampleId :

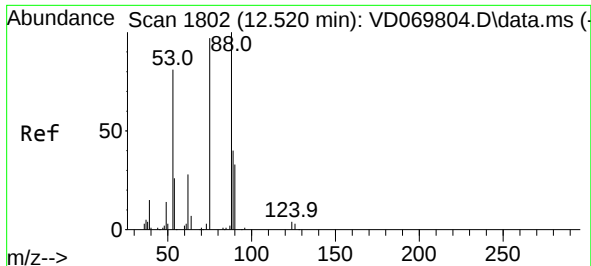
Tgt Ion: 83 Resp: 9463  
Ion Ratio Lower Upper  
83 100  
131 0.0 4.9 14.6#  
85 146.5 31.8 95.4#



#76  
1,2,3-Trichloropropane  
Concen: 55.063 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

Tgt Ion: 75 Resp: 310886  
Ion Ratio Lower Upper  
75 100  
77 1.7 181.5 544.5#

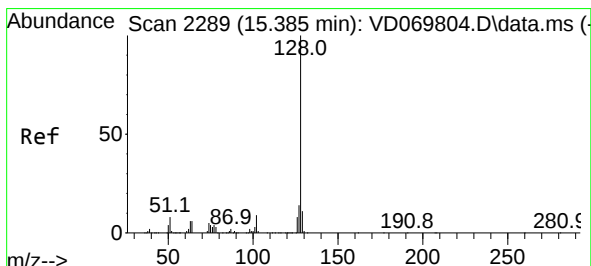
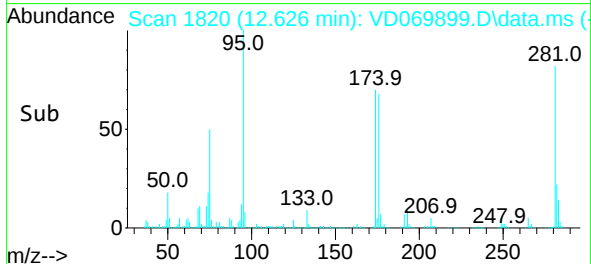
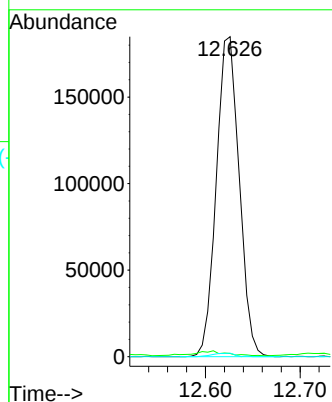
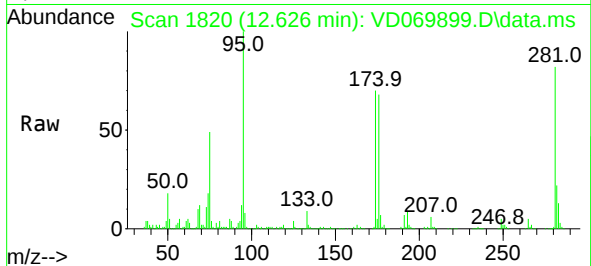




#81  
trans-1,4-Dichloro-2-butene  
Concen: 167.047 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.106 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

Instrument :  
MSVOA\_D  
ClientSampled :

Tgt Ion: 75 Resp: 310886  
Ion Ratio Lower Upper  
75 100  
53 2.1 67.2 100.8#  
89 1.1 35.8 53.6#



#95  
Naphthalene  
Concen: 5.151 ug/l  
RT: 15.385 min Scan# 2289  
Delta R.T. -0.000 min  
Lab File: VD069899.D  
Acq: 28 Jul 2021 20:12

Tgt Ion: 128 Resp: 2932  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 16.0#  
129 4.0 8.6 12.8#

