

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072721\  
 Data File : VD069871.D  
 Acq On : 27 Jul 2021 17:23  
 Operator : VA/SY  
 Sample : M3186-04  
 Misc : 5.42G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jul 28 04:00:13 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

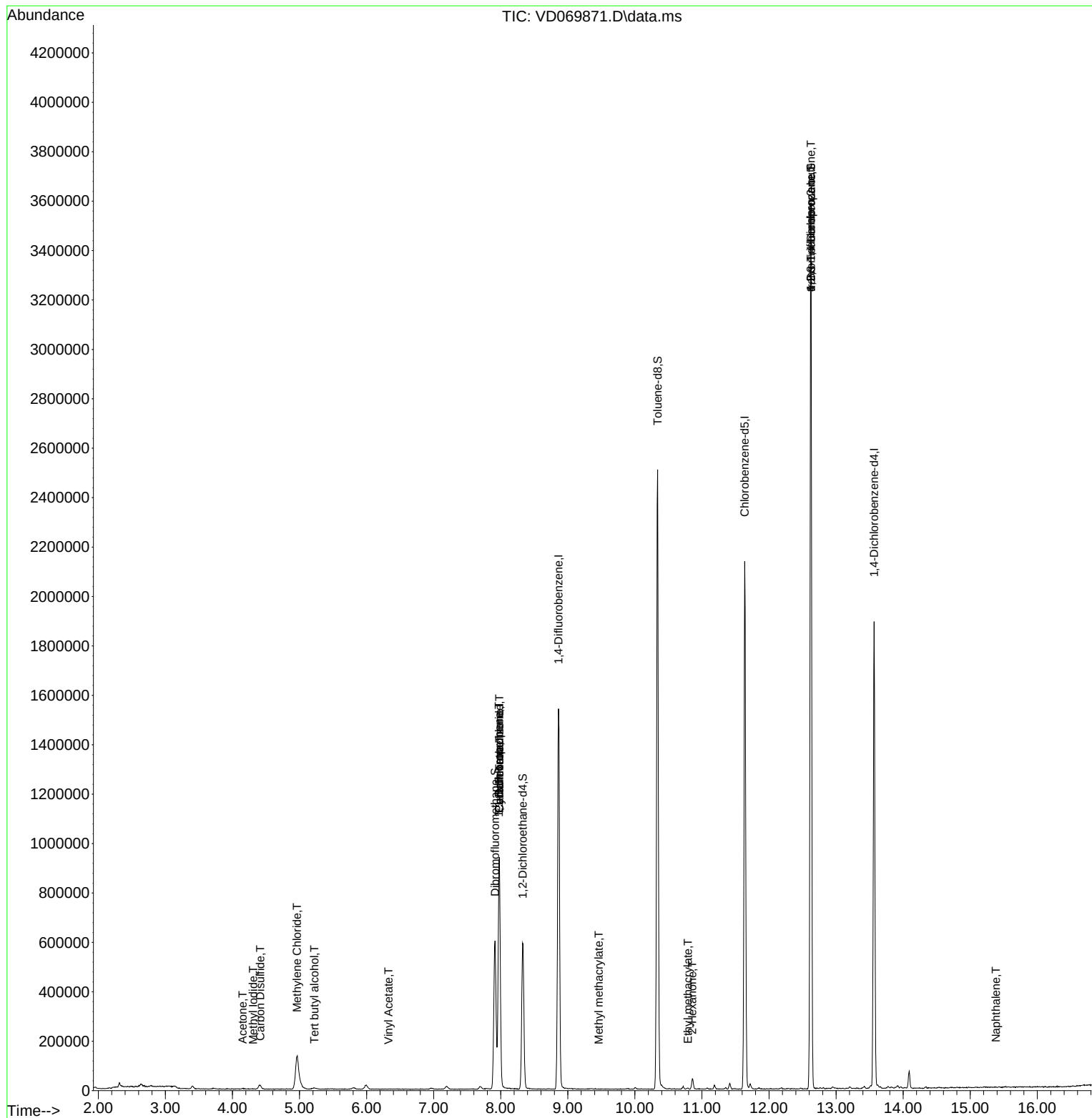
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 666610              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 1336486             | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 1225848             | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567         | 152  | 496047              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 479583              | 62.555    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 125.100% |           |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 449898              | 53.399    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 106.800% |           |        |          |
| 50) Toluene-d8                | 10.338         | 98   | 1709473             | 52.620    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 105.240% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 588264              | 54.182    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 108.360% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      | Qvalue              |           |        |          |
| 5) Bromomethane               | 2.779          | 94   | 3150                | Below Cal | #      | 49       |
| 10) Methyl Iodide             | 4.309          | 142  | 1176                | 3.595     | ug/l # | 66       |
| 11) Tert butyl alcohol        | 5.220          | 59   | 7085                | 17.860    | ug/l # | 88       |
| 16) Acetone                   | 4.150          | 43   | 3765                | 2.719     | ug/l # | 74       |
| 17) Carbon Disulfide          | 4.415          | 76   | 37039               | 1.358     | ug/l   | 97       |
| 20) Methylene Chloride        | 4.962          | 84   | 108470              | 5.145     | ug/l   | 92       |
| 23) Vinyl Acetate             | 6.326          | 43   | 66                  | 20.354    | ug/l # | 71       |
| 31) Cyclohexane               | 7.979          | 56   | 15093               | 1.008     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.973          | 75   | 58873               | 4.082     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 7.979          | 117  | 71299               | 5.412     | ug/l # | 18       |
| 48) Methyl methacrylate       | 9.461          | 41   | 176                 | 2.780     | ug/l # | 13       |
| 56) Ethyl methacrylate        | 10.791         | 69   | 402                 | 3.935     | ug/l # | 1        |
| 59) 2-Hexanone                | 10.855         | 43   | 14574               | 4.496     | ug/l # | 23       |
| 76) 1,2,3-Trichloropropane    | 12.626         | 75   | 305821              | 58.002    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626         | 75   | 305821              | 175.962   | ug/l # | 17       |
| 95) Naphthalene               | 15.385         | 128  | 1192                | 5.065     | ug/l # | 69       |
| -----                         |                |      |                     |           |        |          |

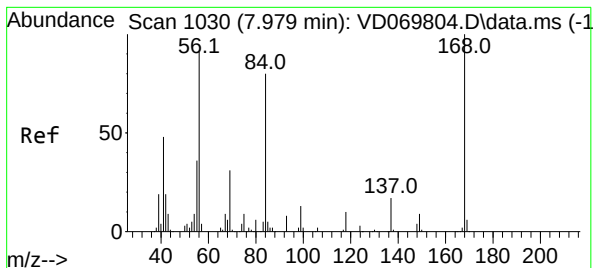
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072721\  
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ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Jul 28 04:00:13 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

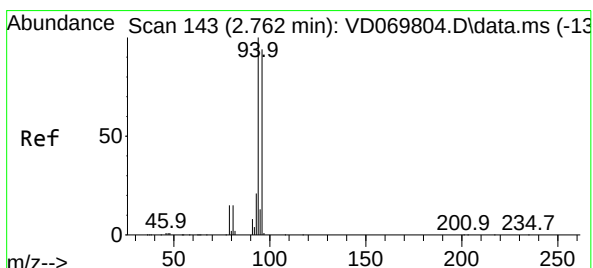
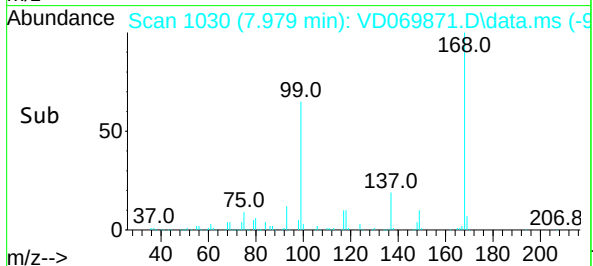
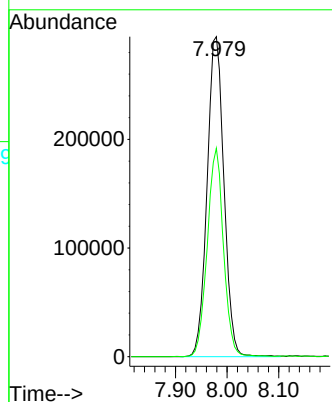
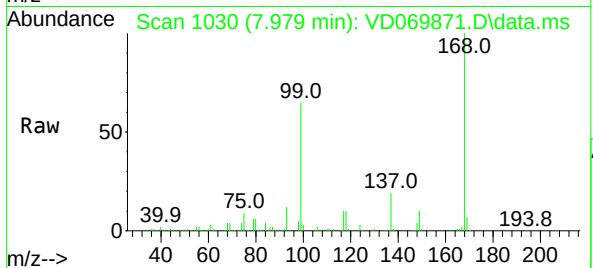




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. 0.000 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

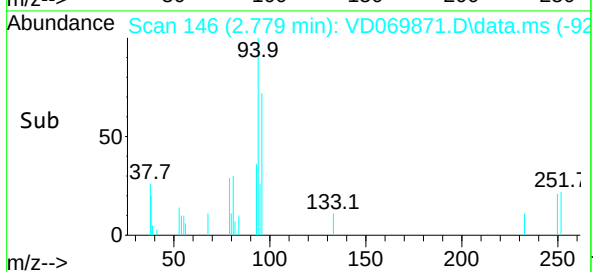
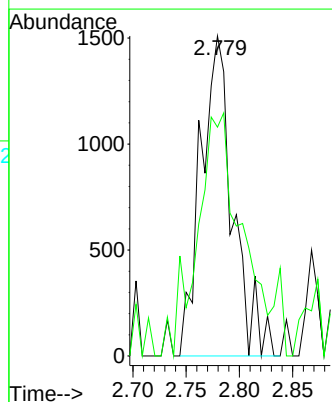
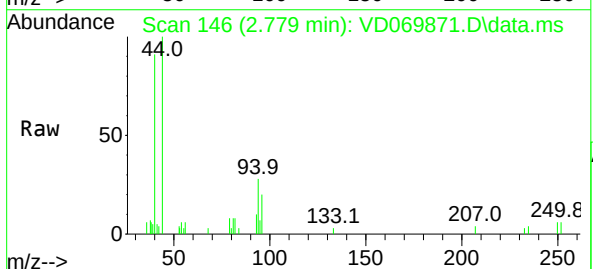
Instrument :  
MSVOA\_D  
ClientSampleId :

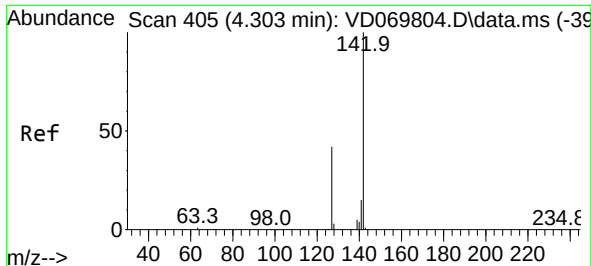
Tgt Ion:168 Resp: 666610  
Ion Ratio Lower Upper  
168 100  
99 65.1 51.1 76.7



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.779 min Scan# 146  
Delta R.T. 0.017 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

Tgt Ion: 94 Resp: 3150  
Ion Ratio Lower Upper  
94 100  
96 44.0 74.8 112.2#

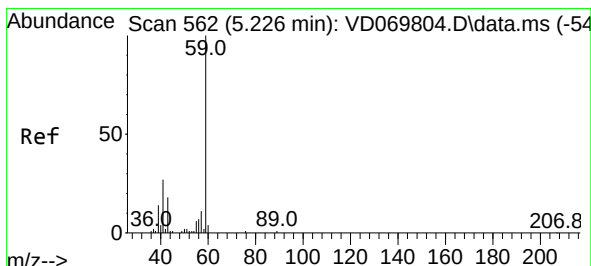
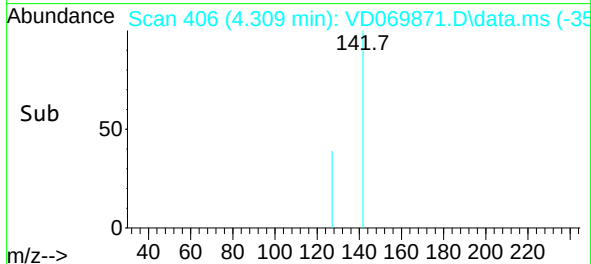
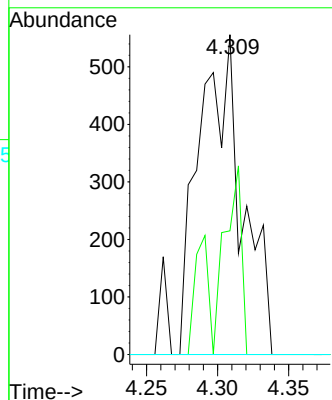
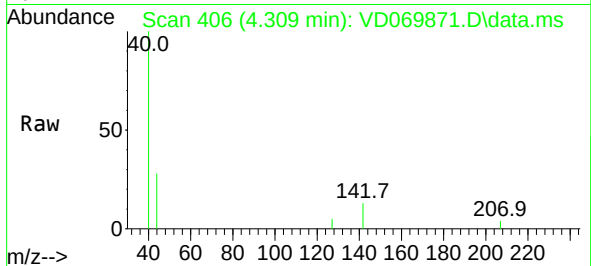




#10  
Methyl Iodide  
Concen: 3.595 ug/l  
RT: 4.309 min Scan# 406  
Delta R.T. 0.006 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

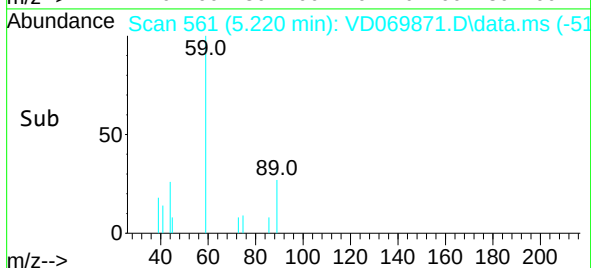
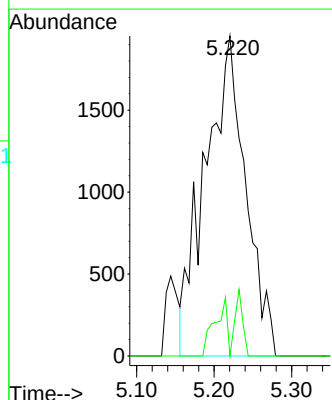
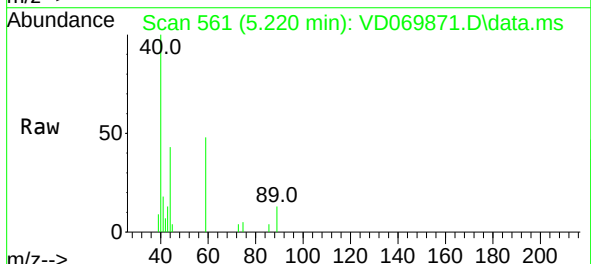
Instrument :  
MSVOA\_D  
ClientSampled :

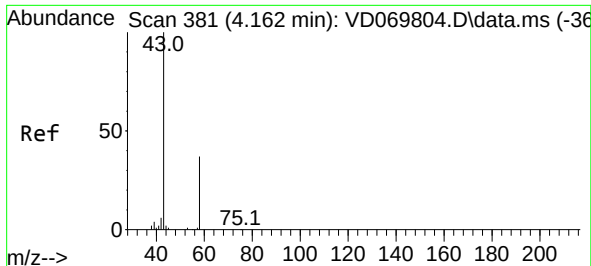
Tgt Ion:142 Resp: 1176  
Ion Ratio Lower Upper  
142 100  
127 22.6 35.7 53.5#  
141 0.0 12.0 18.0#



#11  
Tert butyl alcohol  
Concen: 17.860 ug/l  
RT: 5.220 min Scan# 561  
Delta R.T. -0.006 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

Tgt Ion: 59 Resp: 7085  
Ion Ratio Lower Upper  
59 100  
57 5.6 8.1 12.1#

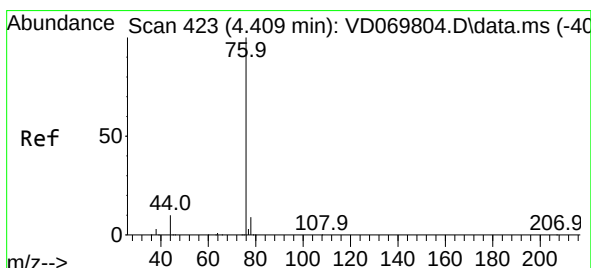
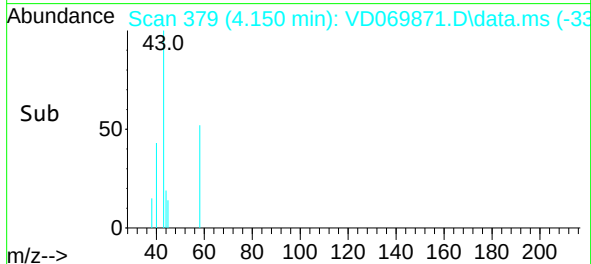
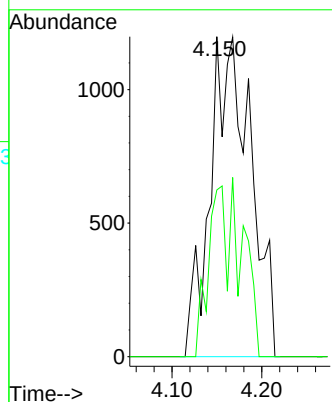
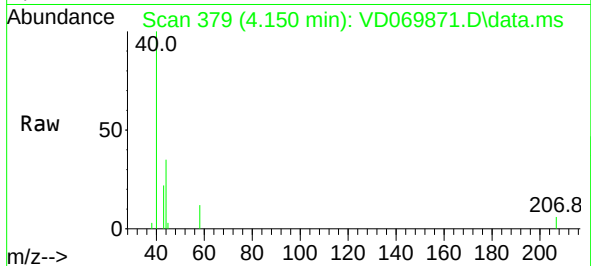




#16  
Acetone  
Concen: 2.719 ug/l  
RT: 4.150 min Scan# 379  
Delta R.T. -0.012 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

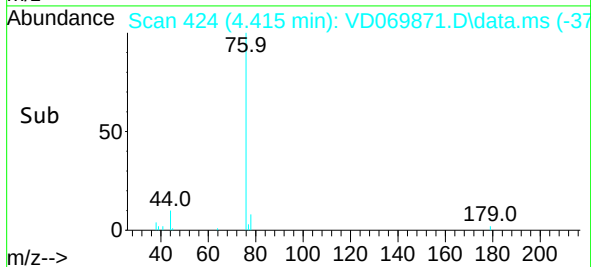
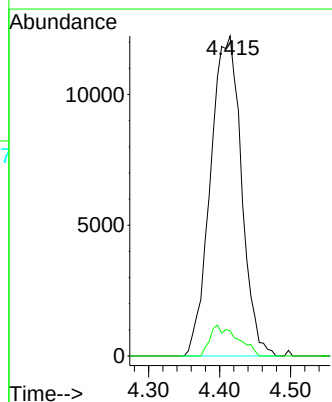
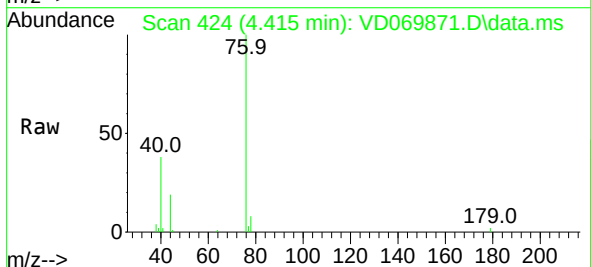
Instrument :  
MSVOA\_D  
ClientSampled :

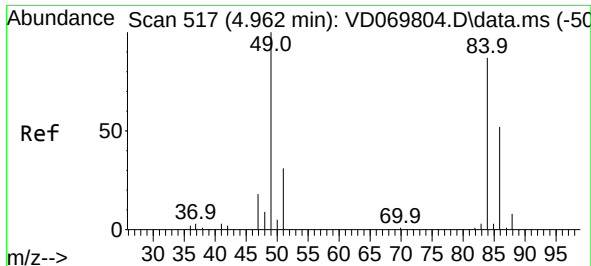
Tgt Ion: 43 Resp: 3765  
Ion Ratio Lower Upper  
43 100  
58 52.1 29.4 44.0#



#17  
Carbon Disulfide  
Concen: 1.358 ug/l  
RT: 4.415 min Scan# 424  
Delta R.T. 0.006 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

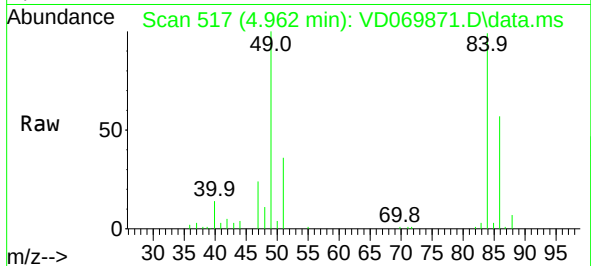
Tgt Ion: 76 Resp: 37039  
Ion Ratio Lower Upper  
76 100  
78 7.9 7.3 10.9



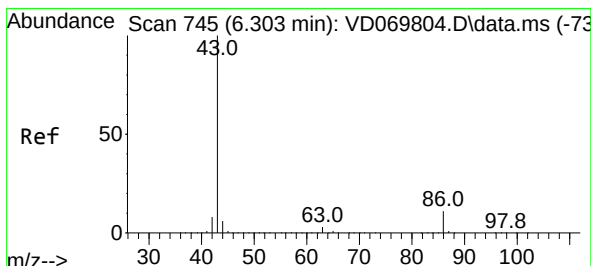
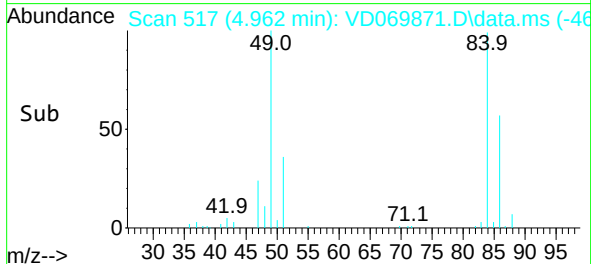
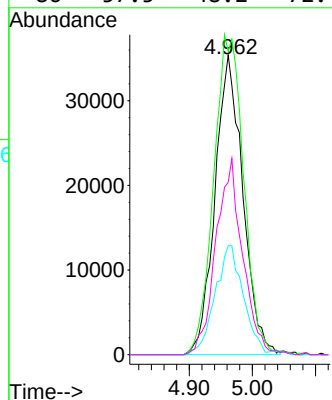


#20  
Methylene Chloride  
Concen: 5.145 ug/l  
RT: 4.962 min Scan# 517  
Delta R.T. -0.000 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

Instrument :  
MSVOA\_D  
ClientSampled :

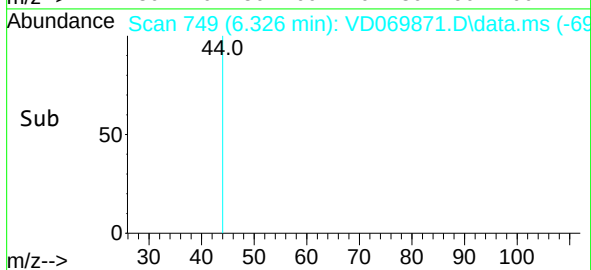
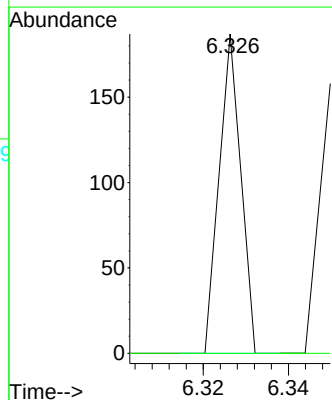
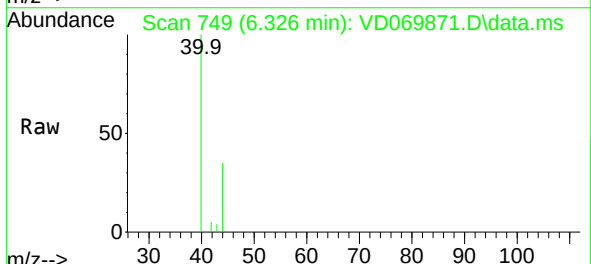


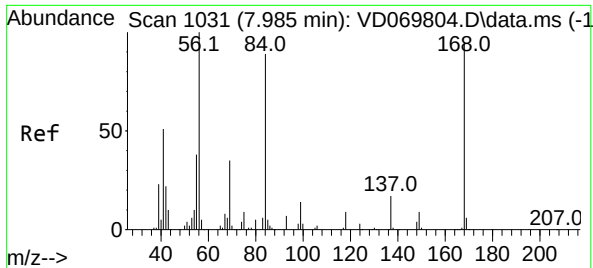
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 108470 |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 101.2 | 92.4  | 138.6  |
| 51       | 36.4  | 28.5  | 42.7   |
| 86       | 57.5  | 48.2  | 72.4   |



#23  
Vinyl Acetate  
Concen: 20.354 ug/l  
RT: 6.326 min Scan# 749  
Delta R.T. 0.023 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

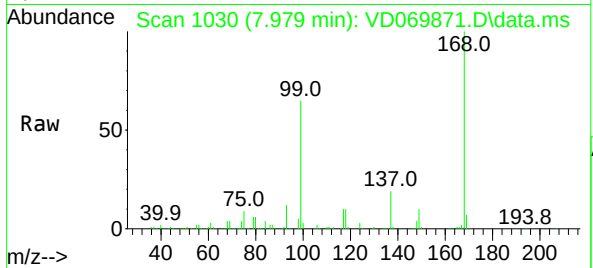
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 66    |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 8.6   | 13.0# |



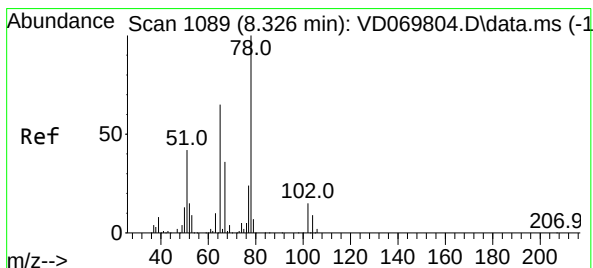
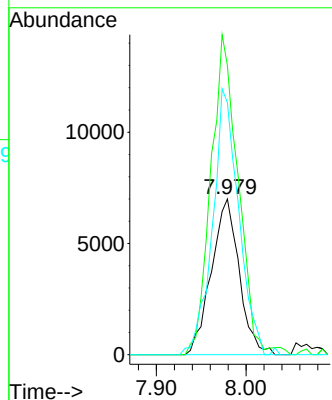
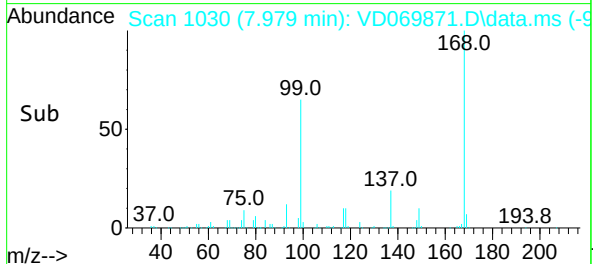


#31  
Cyclohexane  
Concen: 1.008 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

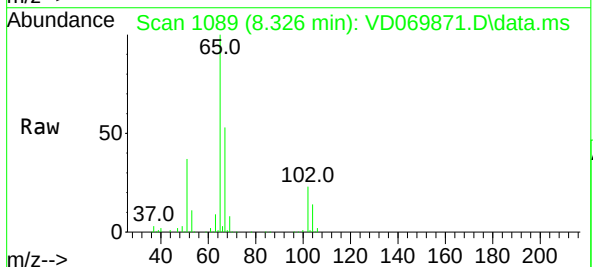
Instrument :  
MSVOA\_D  
ClientSampleId :



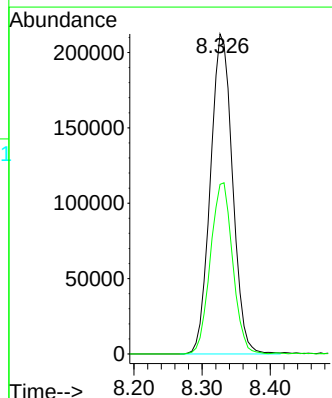
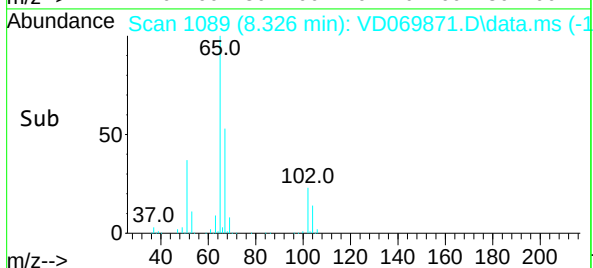
Tgt Ion: 56 Resp: 15093  
Ion Ratio Lower Upper  
56 100  
69 185.7 27.9 41.9#  
84 161.9 71.4 107.2#

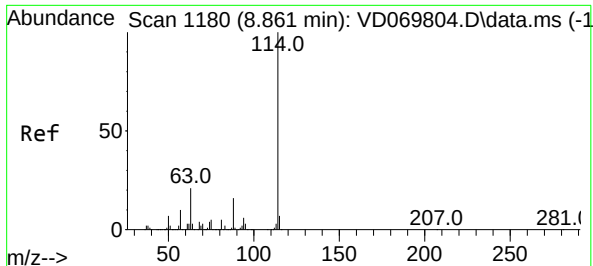


#33  
1,2-Dichloroethane-d4  
Concen: 62.555 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23



Tgt Ion: 65 Resp: 479583  
Ion Ratio Lower Upper  
65 100  
67 53.9 0.0 111.2



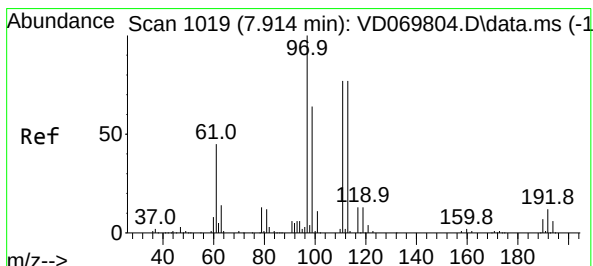
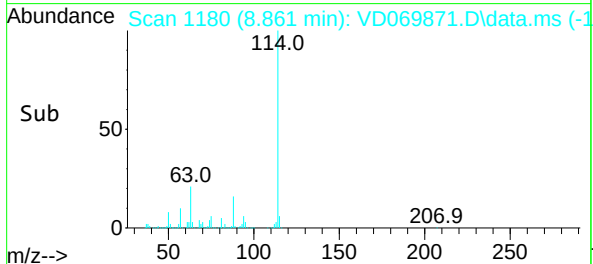
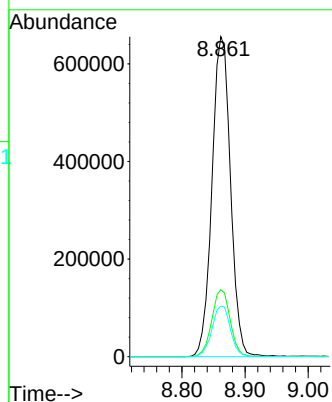
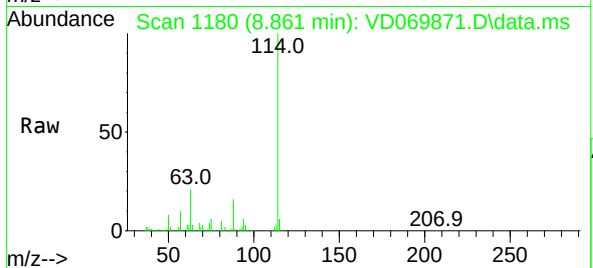


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

Instrument :  
MSVOA\_D  
ClientSampleId :

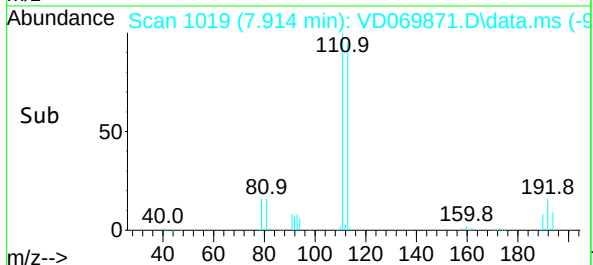
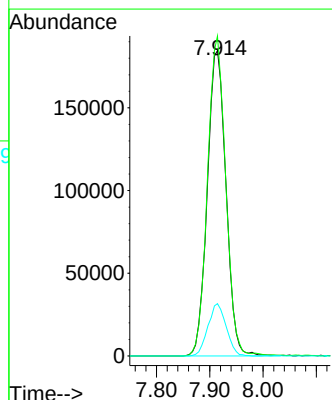
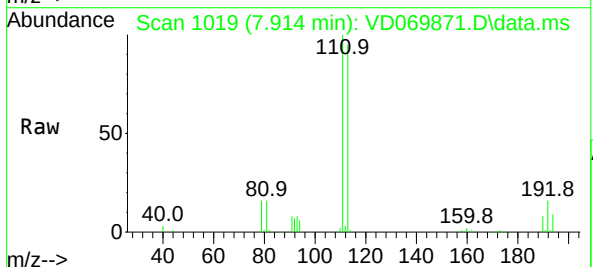
Tgt Ion:114 Resp: 1336486  
Ion Ratio Lower Upper  
114 100  
63 21.0 0.0 41.6  
88 15.8 0.0 31.4



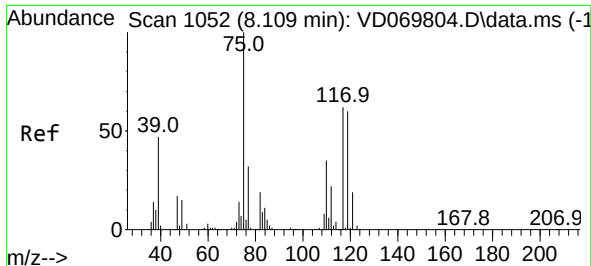
#35

Dibromofluoromethane  
Concen: 53.399 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. 0.000 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

Tgt Ion:113 Resp: 449898  
Ion Ratio Lower Upper  
113 100  
111 102.2 80.5 120.7  
192 16.7 12.6 19.0

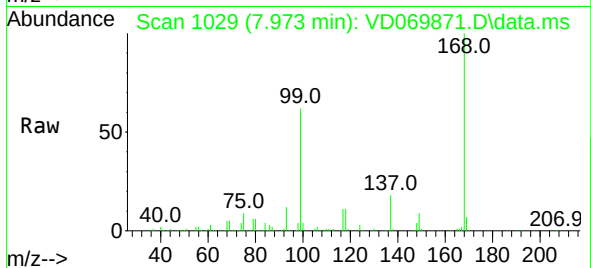




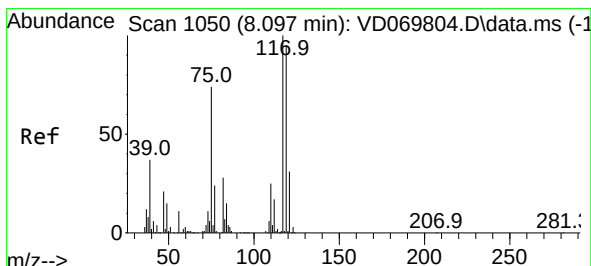
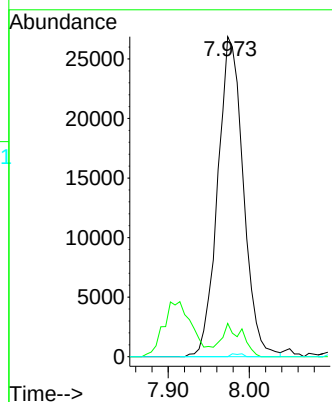
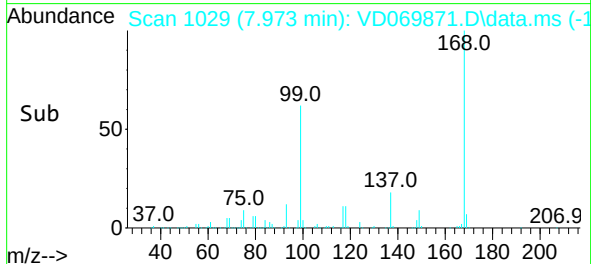


#36  
1,1-Dichloropropene  
Concen: 4.082 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.135 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

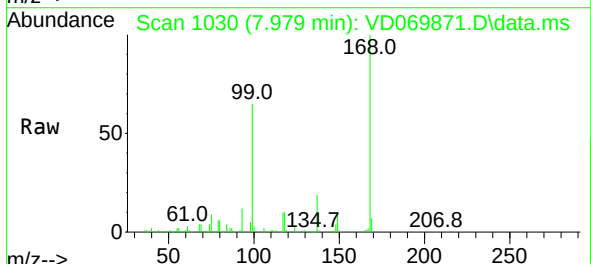
Instrument :  
MSVOA\_D  
ClientSampleId :



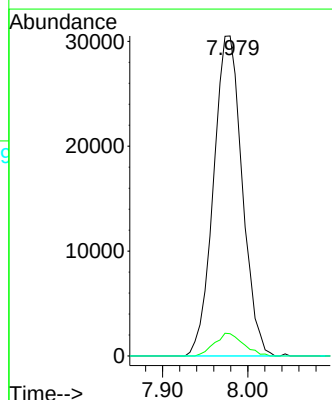
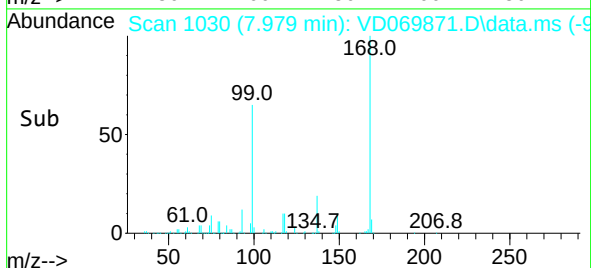
Tgt Ion: 75 Resp: 58873  
Ion Ratio Lower Upper  
75 100  
110 8.2 16.9 50.7#  
77 0.4 24.9 37.3#

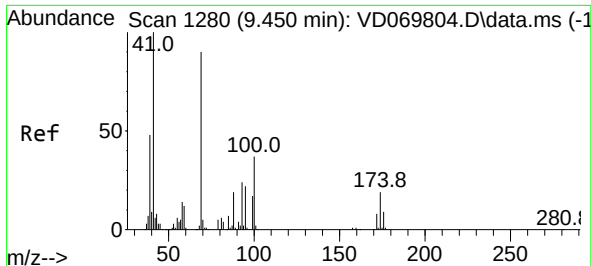


#38  
Carbon Tetrachloride  
Concen: 5.412 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.118 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23



Tgt Ion: 117 Resp: 71299  
Ion Ratio Lower Upper  
117 100  
119 7.0 76.2 114.2#  
121 0.0 24.5 36.7#

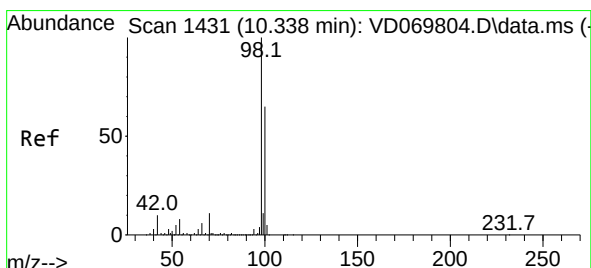
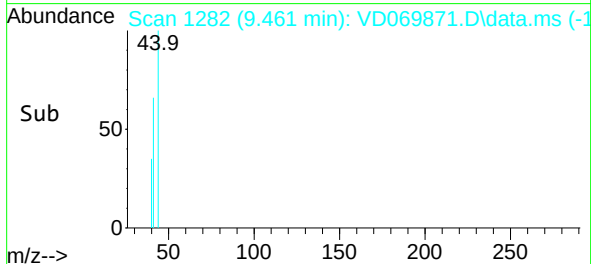
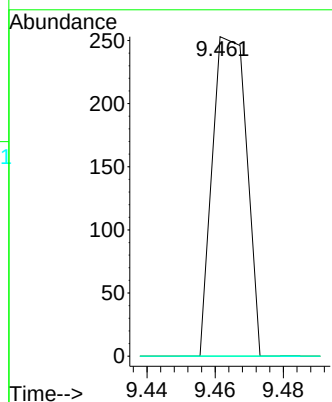
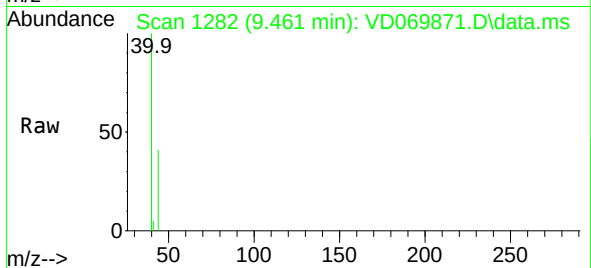




#48  
Methyl methacrylate  
Concen: 2.780 ug/l  
RT: 9.461 min Scan# 1282  
Delta R.T. 0.011 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

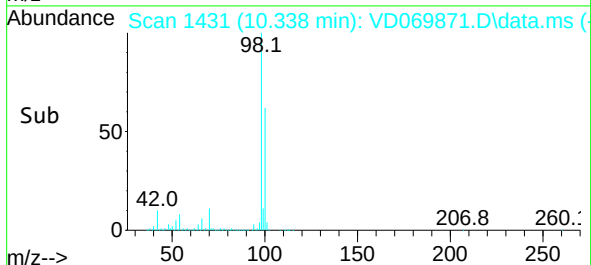
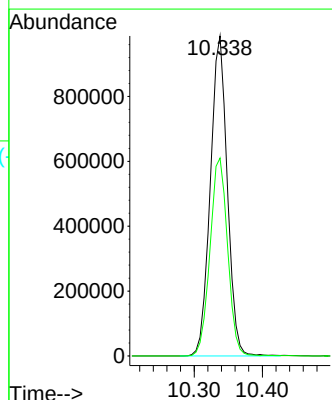
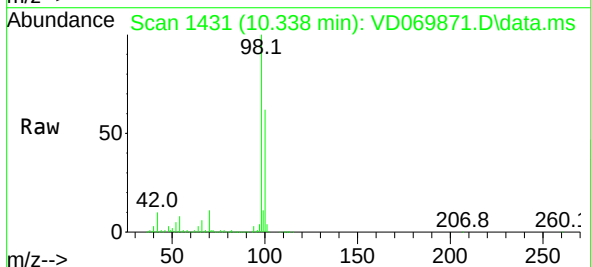
Instrument :  
MSVOA\_D  
ClientSampled :

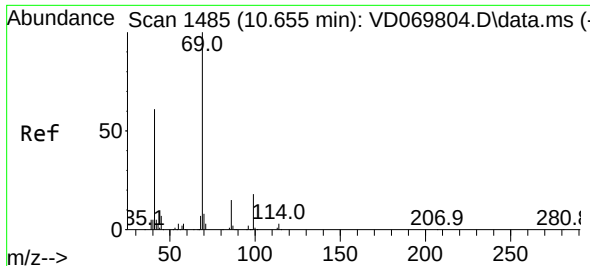
Tgt Ion: 41 Resp: 176  
Ion Ratio Lower Upper  
41 100  
69 0.0 73.4 110.2#  
39 0.0 36.6 55.0#



#50  
Toluene-d8  
Concen: 52.620 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. 0.000 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

Tgt Ion: 98 Resp: 1709473  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.9 77.9

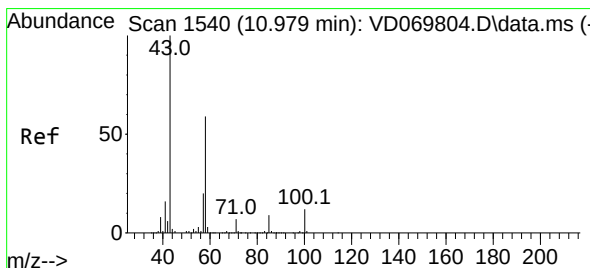
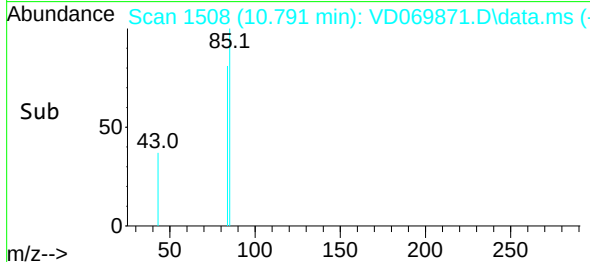
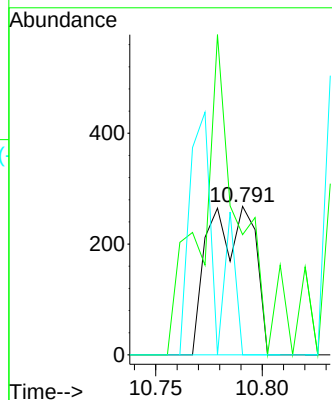
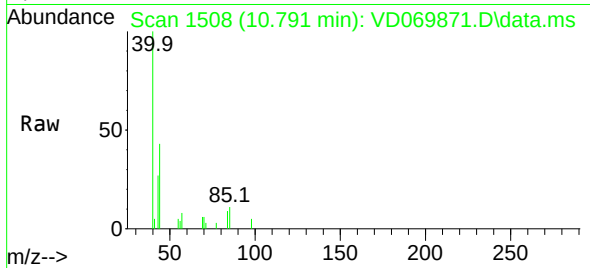




#56  
Ethyl methacrylate  
Concen: 3.935 ug/l  
RT: 10.791 min Scan# 1508  
Delta R.T. 0.136 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

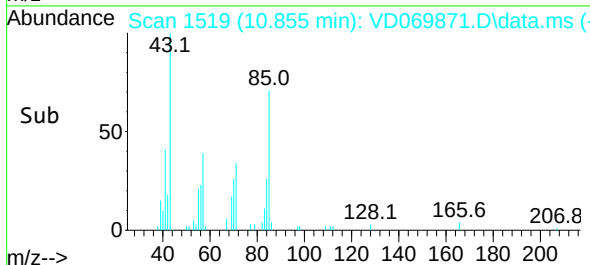
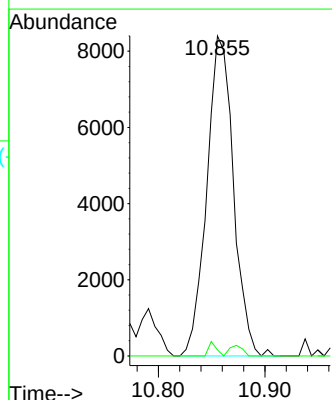
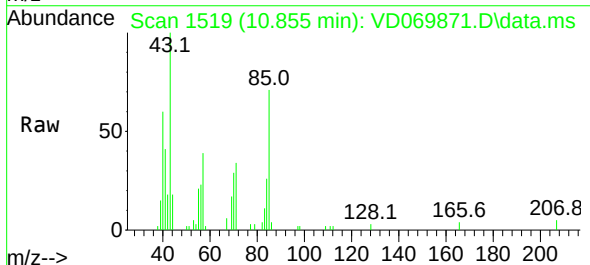
Instrument :  
MSVOA\_D  
ClientSampleId :

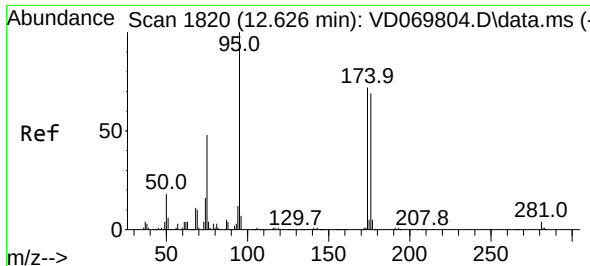
Tgt Ion: 69 Resp: 402  
Ion Ratio Lower Upper  
69 100  
41 180.8 50.2 75.2#  
39 94.0 22.0 33.0#



#59  
2-Hexanone  
Concen: 4.496 ug/l  
RT: 10.855 min Scan# 1519  
Delta R.T. -0.124 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

Tgt Ion: 43 Resp: 14574  
Ion Ratio Lower Upper  
43 100  
58 1.3 29.4 88.3#

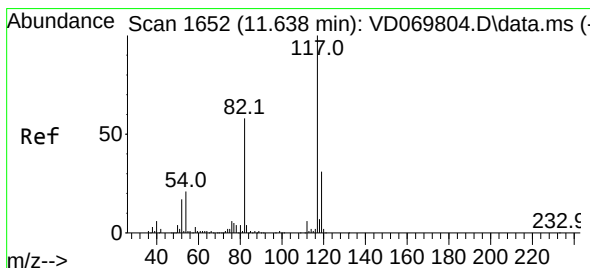
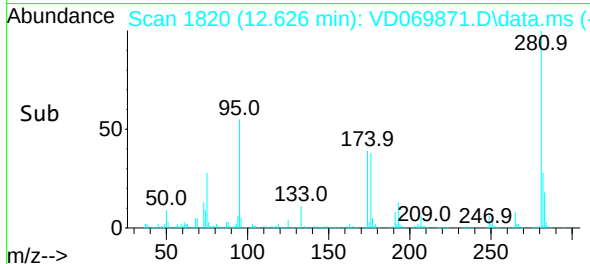
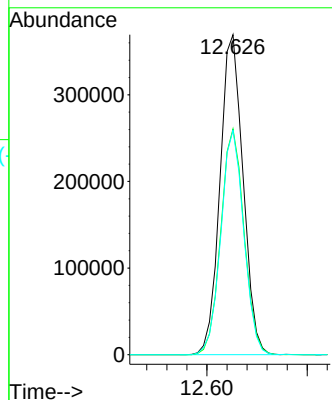
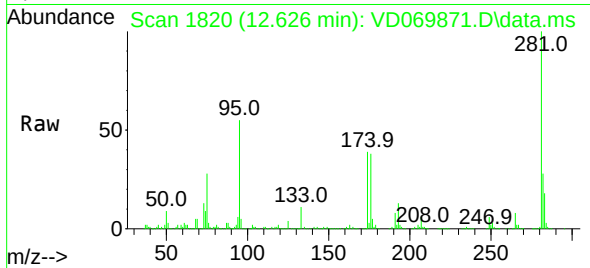




#62  
4-Bromofluorobenzene  
Concen: 54.182 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.000 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

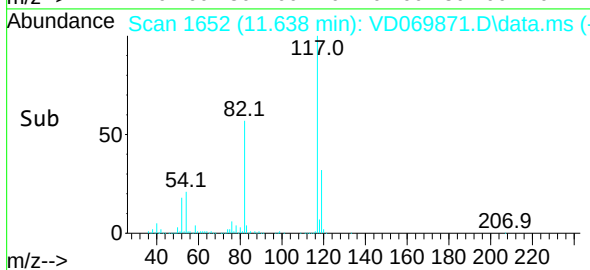
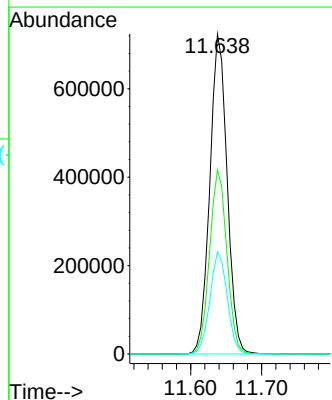
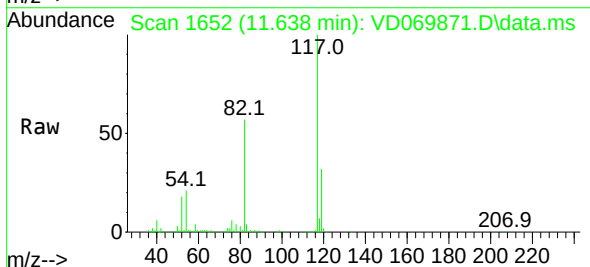
Instrument :  
MSVOA\_D  
ClientSampleId :

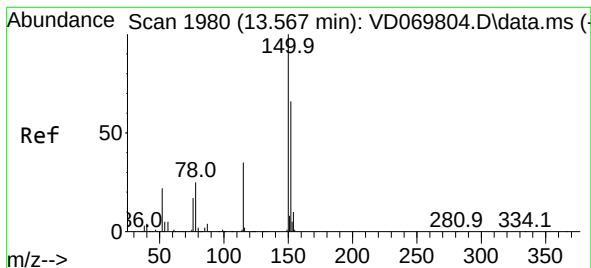
Tgt Ion: 95 Resp: 588264  
Ion Ratio Lower Upper  
95 100  
174 71.0 0.0 142.6  
176 69.6 0.0 134.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

Tgt Ion: 117 Resp: 1225848  
Ion Ratio Lower Upper  
117 100  
82 57.5 46.3 69.5  
119 31.9 24.7 37.1

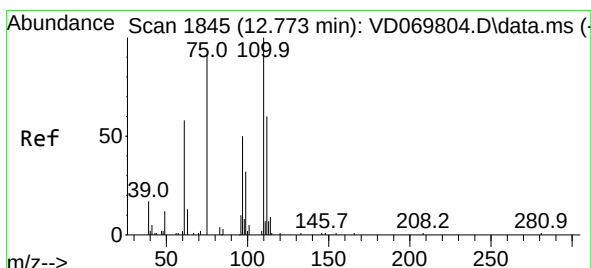
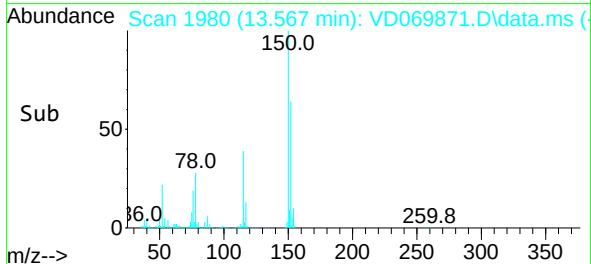
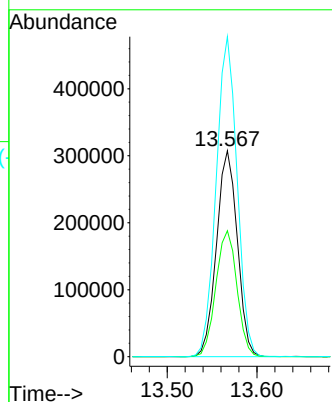
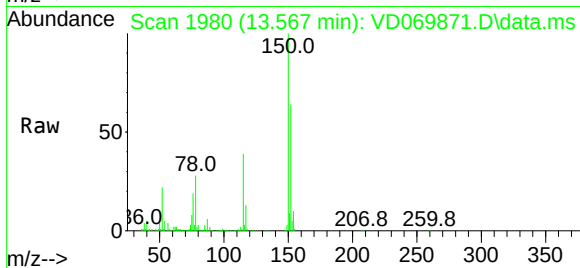




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. 0.000 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

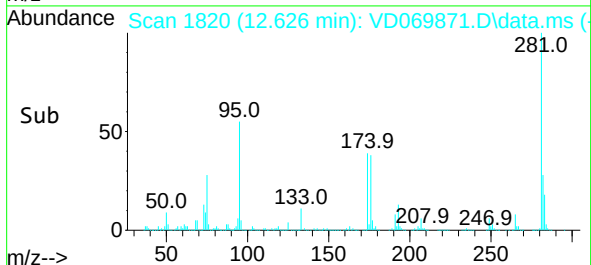
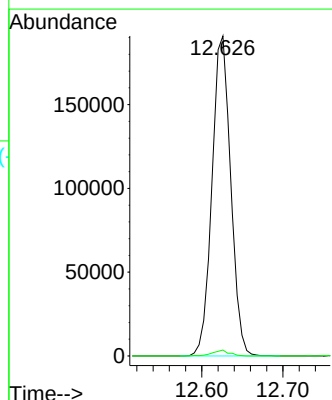
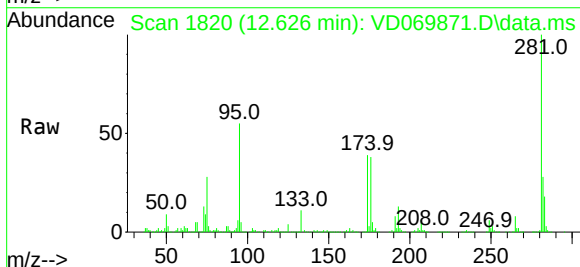
Instrument :  
MSVOA\_D  
ClientSampleId :

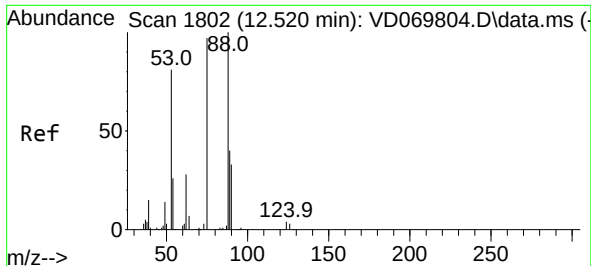
Tgt Ion:152 Resp: 496047  
Ion Ratio Lower Upper  
152 100  
115 62.0 31.1 93.3  
150 155.8 0.0 343.0



#76  
1,2,3-Trichloropropane  
Concen: 58.002 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

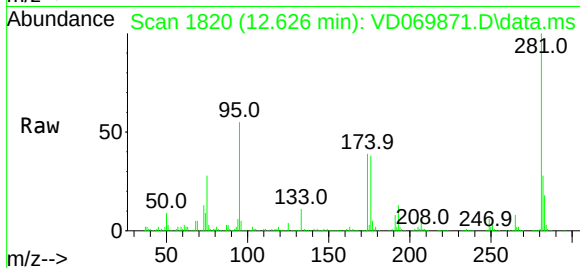
Tgt Ion: 75 Resp: 305821  
Ion Ratio Lower Upper  
75 100  
77 1.6 181.5 544.5#



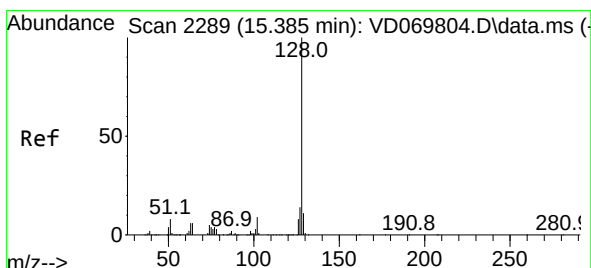
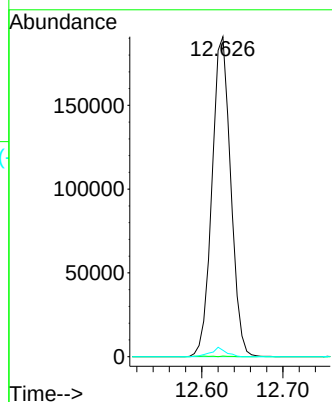
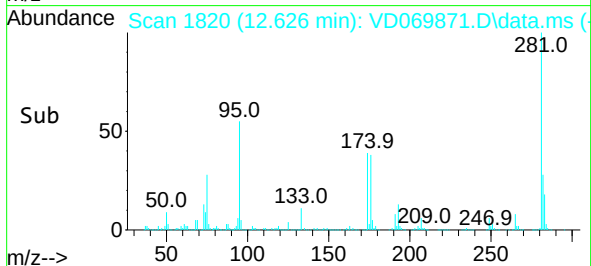


#81  
trans-1,4-Dichloro-2-butene  
Concen: 175.962 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.106 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23

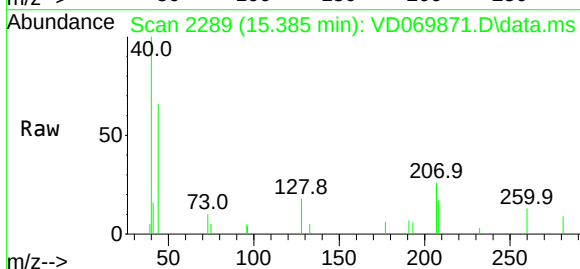
Instrument :  
MSVOA\_D  
ClientSampleId :



Tgt Ion: 75 Resp: 305821  
Ion Ratio Lower Upper  
75 100  
53 0.1 67.2 100.8#  
89 2.3 35.8 53.6#



#95  
Naphthalene  
Concen: 5.065 ug/l  
RT: 15.385 min Scan# 2289  
Delta R.T. -0.000 min  
Lab File: VD069871.D  
Acq: 27 Jul 2021 17:23



Tgt Ion: 128 Resp: 1192  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 16.0#  
129 0.0 8.6 12.8#

