

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072821\  
 Data File : VD069894.D  
 Acq On : 28 Jul 2021 17:48  
 Operator : VA/SY  
 Sample : M3206-02  
 Misc : 5.02G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jul 29 04:01:35 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

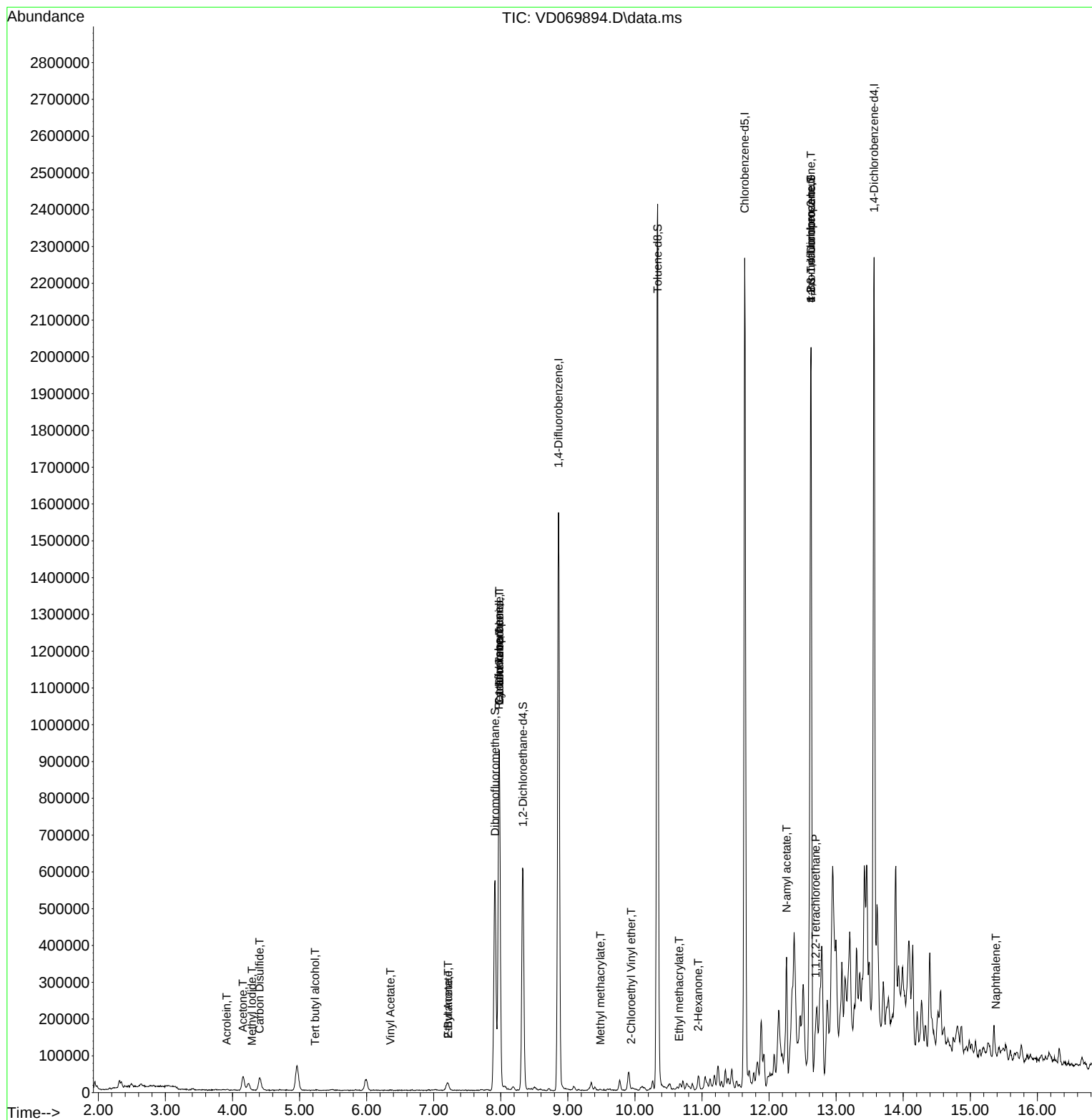
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.973  | 168   | 655870   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 1334314  | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 1299210  | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567 | 152   | 566434   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.332  | 65    | 476937   | 63.228    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 126.460% |          |
| 35) Dibromofluoromethane      | 7.914  | 113   | 422630   | 50.244    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 100.480% |          |
| 50) Toluene-d8                | 10.338 | 98    | 1647033  | 50.781    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 101.560% |          |
| 62) 4-Bromofluorobenzene      | 12.626 | 95    | 639383   | 58.986    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 117.980% |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 5) Bromomethane               | 2.768  | 94    | 2625     | Below Cal | #          | 67       |
| 10) Methyl Iodide             | 4.291  | 142   | 800      | 3.554     | ug/l #     | 52       |
| 11) Tert butyl alcohol        | 5.232  | 59    | 574      | 1.471     | ug/l #     | 73       |
| 13) Acrolein                  | 3.915  | 56    | 1075     | 1.968     | ug/l #     | 1        |
| 16) Acetone                   | 4.156  | 43    | 66214    | 48.593    | ug/l       | 90       |
| 17) Carbon Disulfide          | 4.403  | 76    | 71049    | 2.648     | ug/l       | 97       |
| 20) Methylene Chloride        | 4.956  | 84    | 54943    | Below Cal | #          | 88       |
| 23) Vinyl Acetate             | 6.356  | 43    | 154      | 20.360    | ug/l #     | 71       |
| 25) 2-Butanone                | 7.214  | 43    | 19926    | 10.783    | ug/l       | 99       |
| 31) Cyclohexane               | 7.979  | 56    | 20392    | 1.384     | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.979  | 75    | 59086    | 4.103     | ug/l #     | 50       |
| 37) Ethyl Acetate             | 7.214  | 43    | 19926    | 3.801     | ug/l #     | 73       |
| 38) Carbon Tetrachloride      | 7.979  | 117   | 71518    | 5.437     | ug/l #     | 17       |
| 48) Methyl methacrylate       | 9.485  | 41    | 1340     | 3.000     | ug/l #     | 13       |
| 56) Ethyl methacrylate        | 10.661 | 69    | 2428     | 4.134     | ug/l #     | 10       |
| 58) 2-Chloroethyl Vinyl ether | 9.944  | 63    | 194      | 20.913    | ug/l #     | 48       |
| 59) 2-Hexanone                | 10.944 | 43    | 14881    | 4.598     | ug/l #     | 25       |
| 74) N-amyl acetate            | 12.261 | 43    | 66511    | 7.945     | ug/l #     | 64       |
| 75) 1,1,2,2-Tetrachloroethane | 12.696 | 83    | 10298    | 1.267     | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75    | 307146   | 51.014    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75    | 307146   | 154.764   | ug/l #     | 16       |
| 95) Naphthalene               | 15.385 | 128   | 4181     | 5.202     | ug/l #     | 69       |

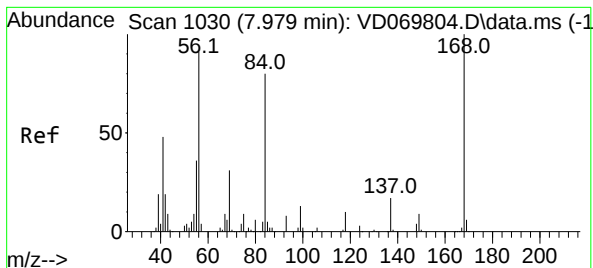
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072821\  
Data File : VD069894.D  
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Operator : VA/SY  
Sample : M3206-02  
Misc : 5.02G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Jul 29 04:01:35 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: 7.973 min Scan# 1029

Delta R.T. -0.006 min

Lab File: VD069894.D

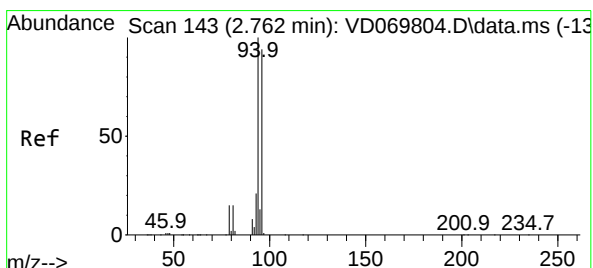
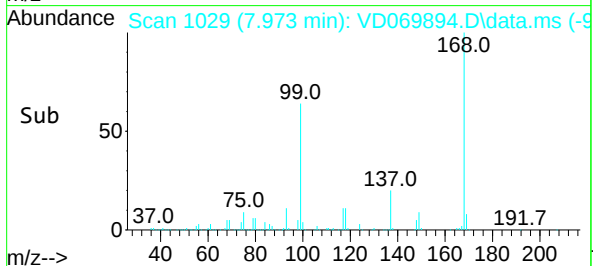
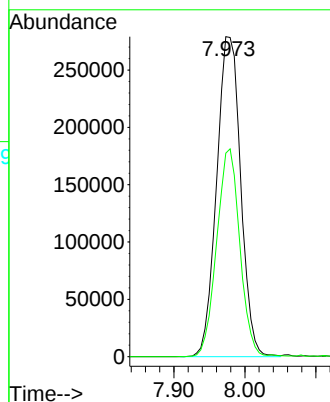
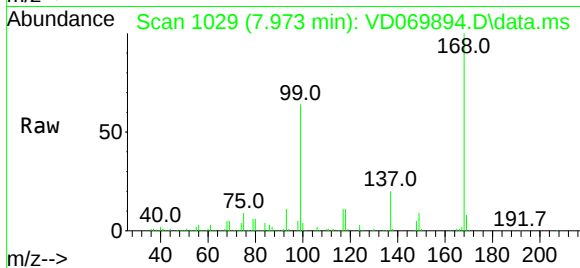
Acq: 28 Jul 2021 17:48

Tgt Ion:168 Resp: 655870

Ion Ratio Lower Upper

168 100

99 63.6 51.1 76.7



#5

Bromomethane

Concen: Below Cal

RT: 2.768 min Scan# 144

Delta R.T. 0.006 min

Lab File: VD069894.D

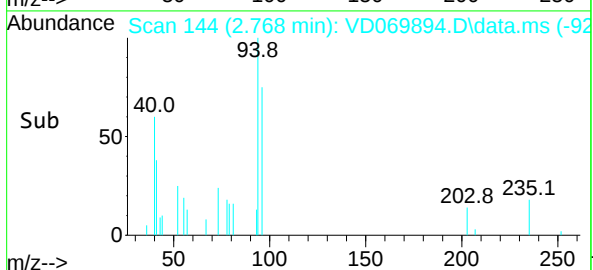
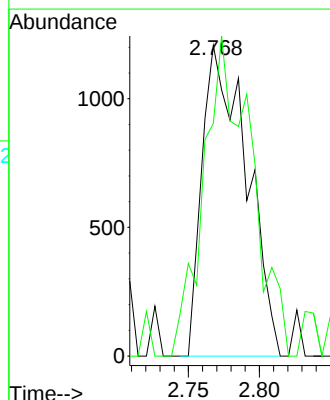
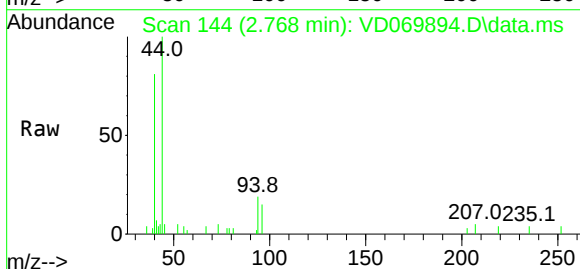
Acq: 28 Jul 2021 17:48

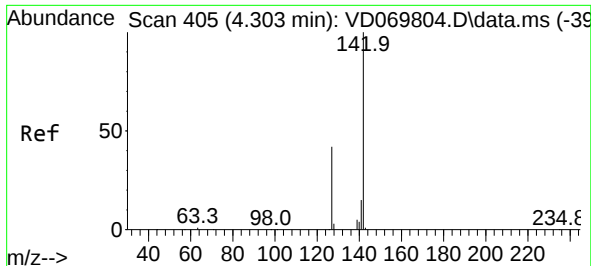
Tgt Ion: 94 Resp: 2625

Ion Ratio Lower Upper

94 100

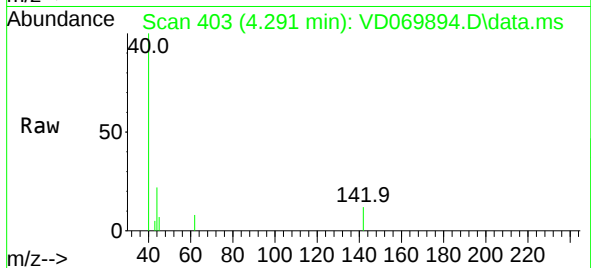
96 61.6 74.8 112.2#



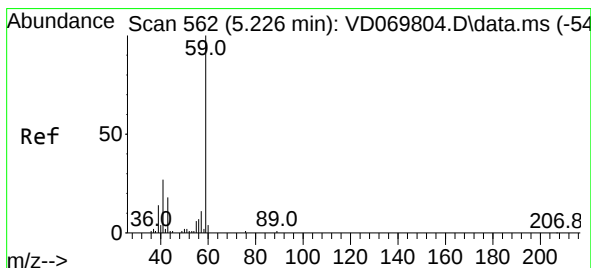
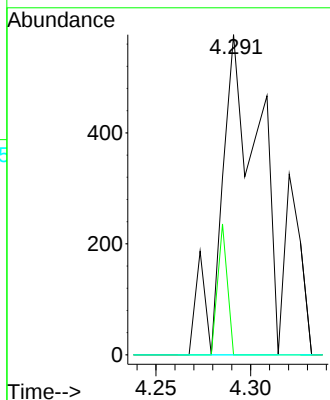
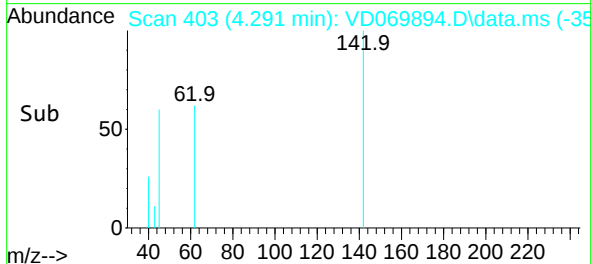


#10  
Methyl Iodide  
Concen: 3.554 ug/l  
RT: 4.291 min Scan# 403  
Delta R.T. -0.012 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

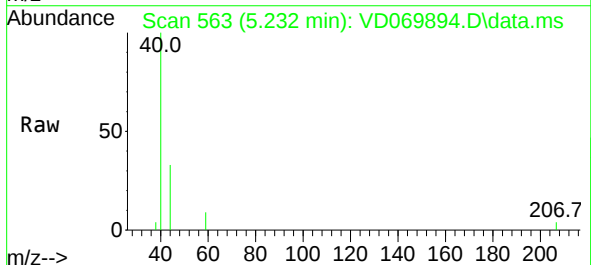
Instrument :  
MSVOA\_D  
ClientSampled :



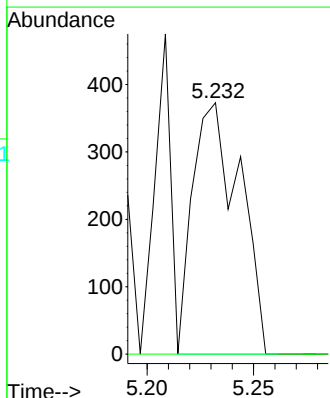
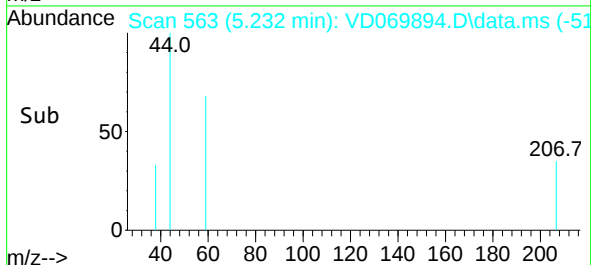
Tgt Ion:142 Resp: 800  
Ion Ratio Lower Upper  
142 100  
127 10.4 35.7 53.5#  
141 0.0 12.0 18.0#

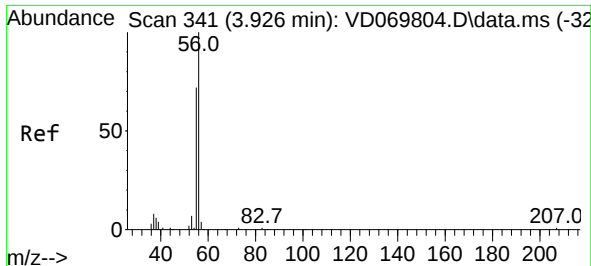


#11  
Tert butyl alcohol  
Concen: 1.471 ug/l  
RT: 5.232 min Scan# 563  
Delta R.T. 0.006 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48



Tgt Ion: 59 Resp: 574  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.1 12.1#

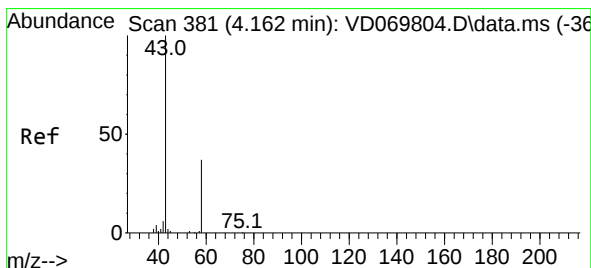
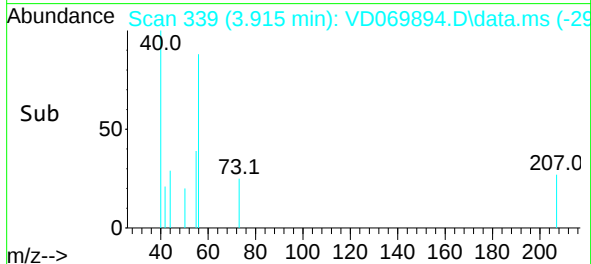
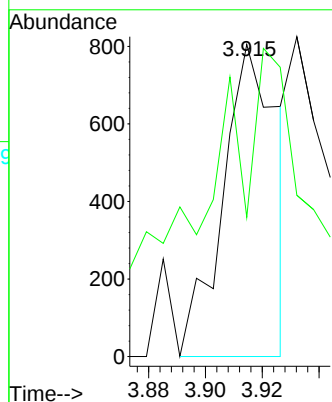
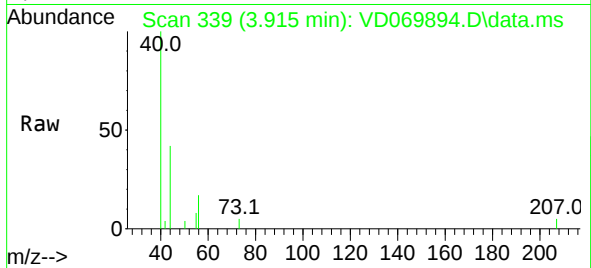




#13  
Acrolein  
Concen: 1.968 ug/l  
RT: 3.915 min Scan# 339  
Delta R.T. -0.012 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

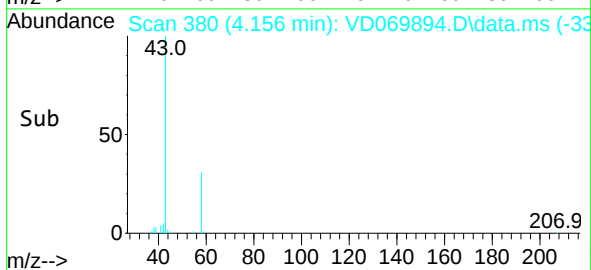
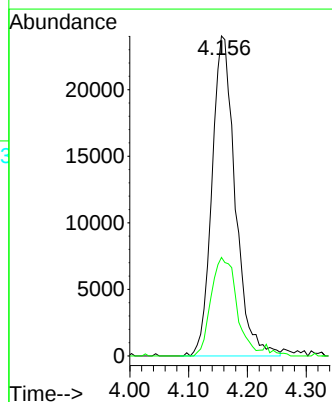
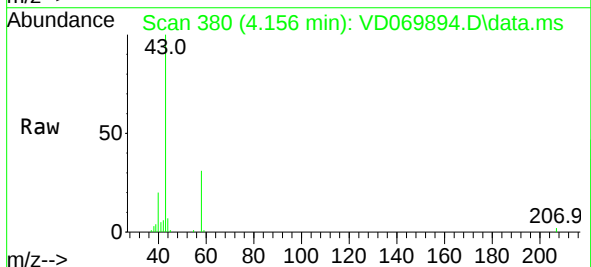
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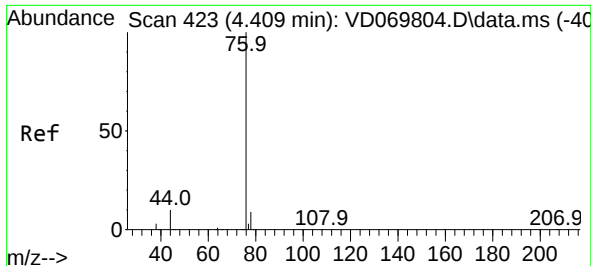
Tgt Ion: 56 Resp: 1075  
Ion Ratio Lower Upper  
56 100  
55 190.1 57.2 85.8#



#16  
Acetone  
Concen: 48.593 ug/l  
RT: 4.156 min Scan# 380  
Delta R.T. -0.006 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

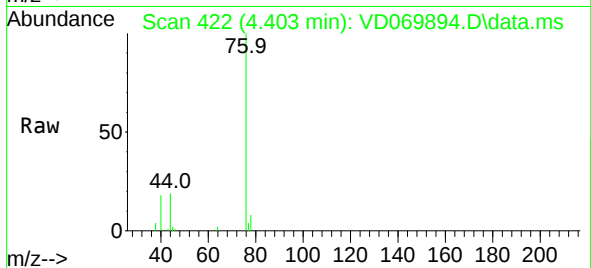
Tgt Ion: 43 Resp: 66214  
Ion Ratio Lower Upper  
43 100  
58 30.8 29.4 44.0



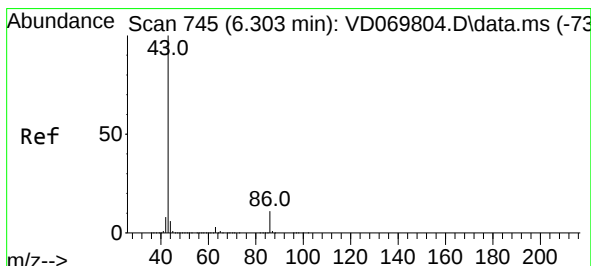
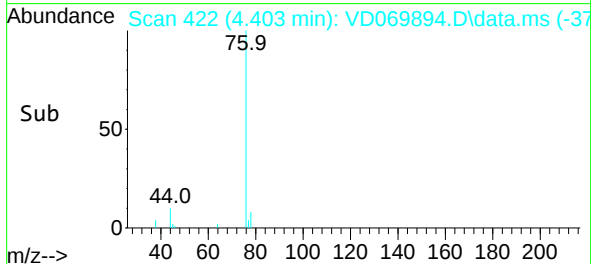
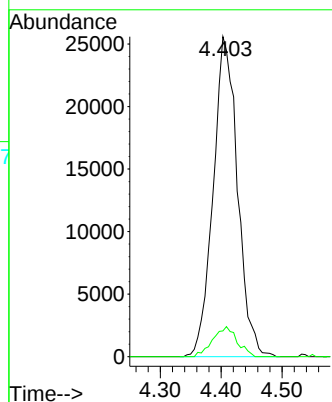


#17  
Carbon Disulfide  
Concen: 2.648 ug/l  
RT: 4.403 min Scan# 422  
Delta R.T. -0.006 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

Instrument :  
MSVOA\_D  
ClientSampled :

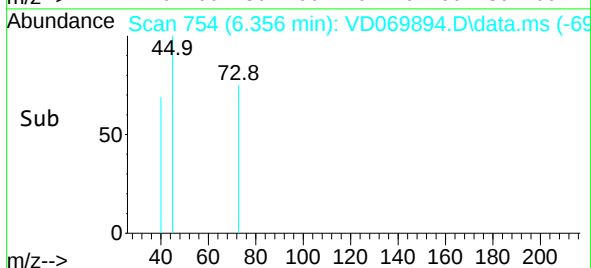
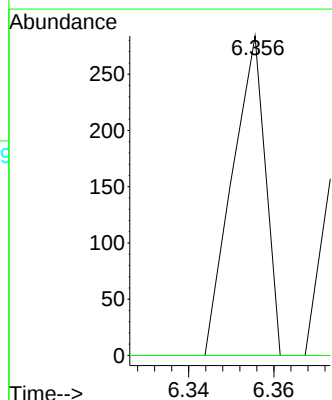
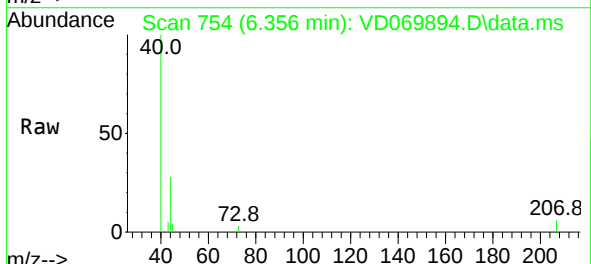


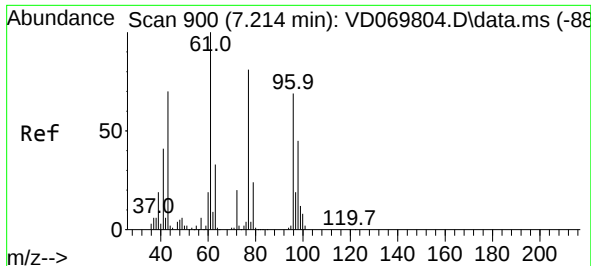
Tgt Ion: 76 Resp: 71049  
Ion Ratio Lower Upper  
76 100  
78 8.0 7.3 10.9



#23  
Vinyl Acetate  
Concen: 20.360 ug/l  
RT: 6.356 min Scan# 754  
Delta R.T. 0.053 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

Tgt Ion: 43 Resp: 154  
Ion Ratio Lower Upper  
43 100  
86 0.0 8.6 13.0#

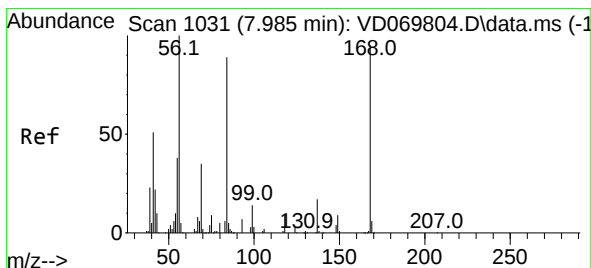
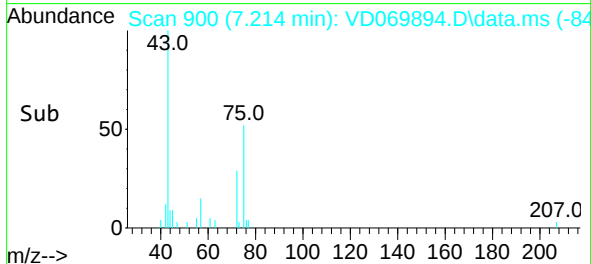
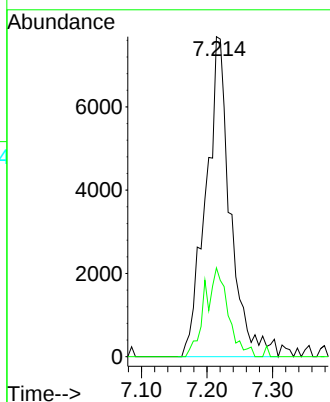
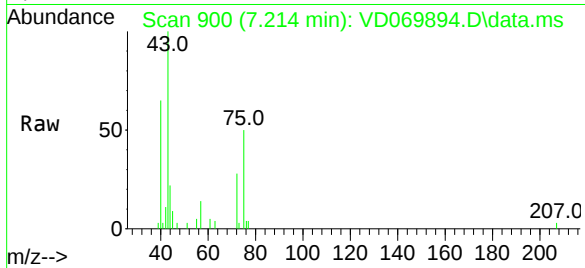




#25  
2-Butanone  
Concen: 10.783 ug/l  
RT: 7.214 min Scan# 900  
Delta R.T. -0.000 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

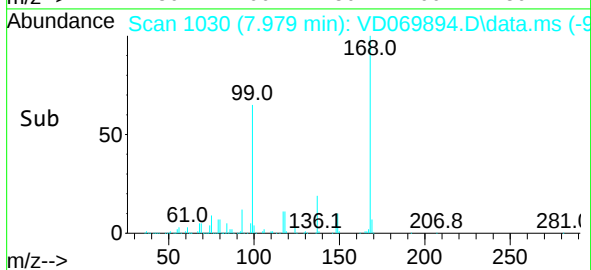
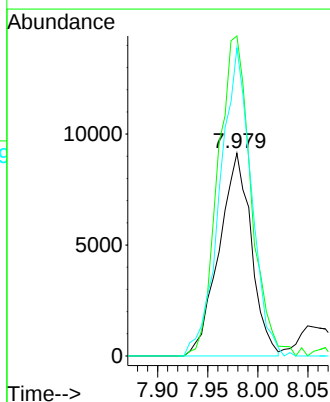
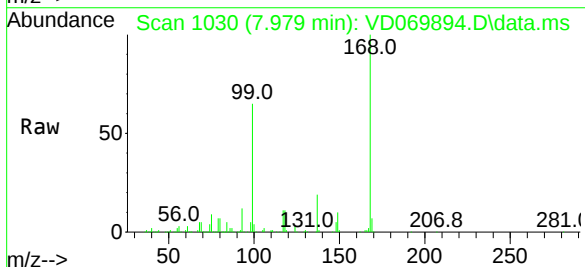
Instrument :  
MSVOA\_D  
ClientSampled :

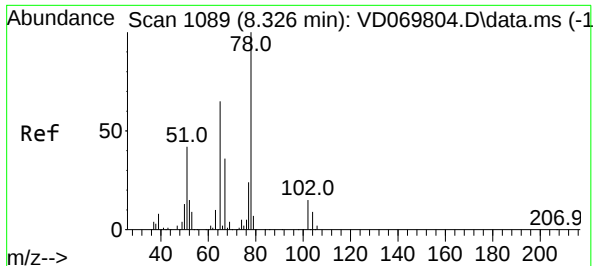
Tgt Ion: 43 Resp: 19926  
Ion Ratio Lower Upper  
43 100  
72 27.7 22.8 34.2



#31  
Cyclohexane  
Concen: 1.384 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

Tgt Ion: 56 Resp: 20392  
Ion Ratio Lower Upper  
56 100  
69 157.9 27.9 41.9#  
84 152.1 71.4 107.2#

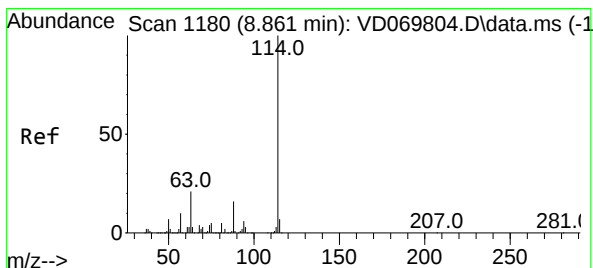
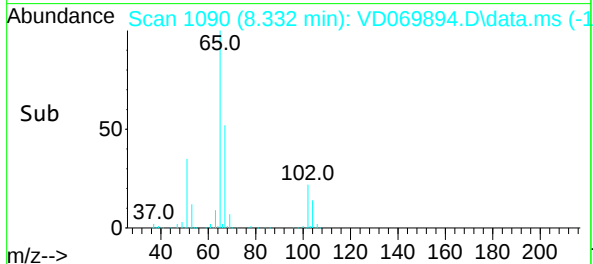
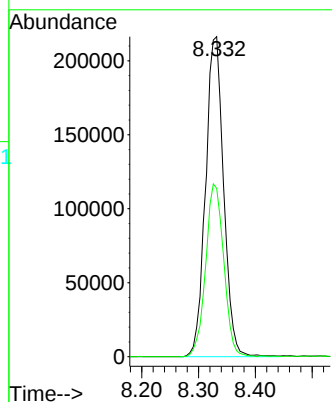
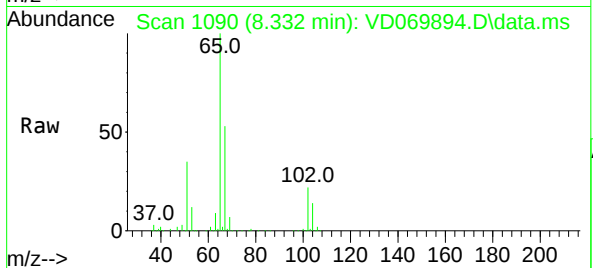




#33  
1,2-Dichloroethane-d4  
Concen: 63.228 ug/l  
RT: 8.332 min Scan# 1090  
Delta R.T. 0.006 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

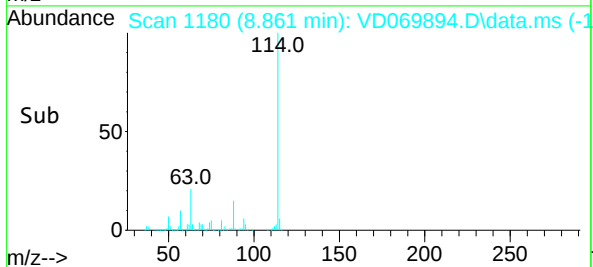
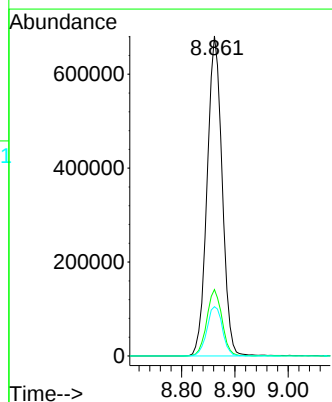
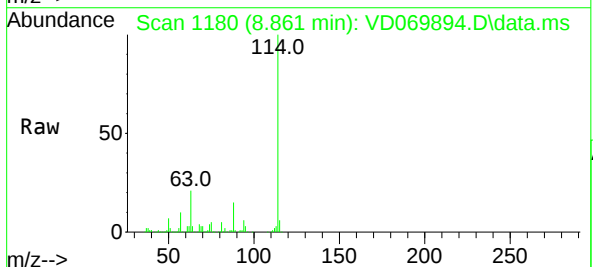
Instrument :  
MSVOA\_D  
ClientSampled :

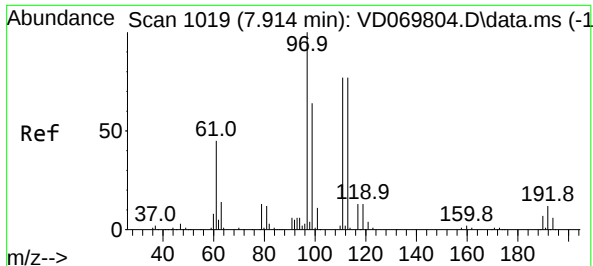
Tgt Ion: 65 Resp: 476937  
Ion Ratio Lower Upper  
65 100  
67 53.9 0.0 111.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

Tgt Ion: 114 Resp: 1334314  
Ion Ratio Lower Upper  
114 100  
63 20.8 0.0 41.6  
88 15.4 0.0 31.4





#35

Dibromofluoromethane

Concen: 50.244 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.000 min

Lab File: VD069894.D

Acq: 28 Jul 2021 17:48

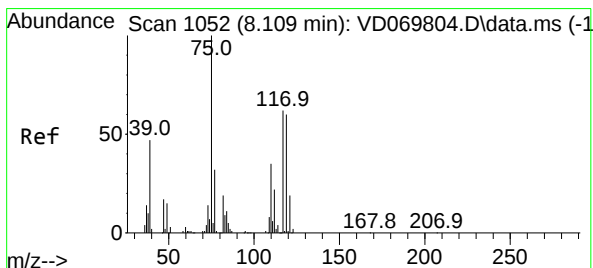
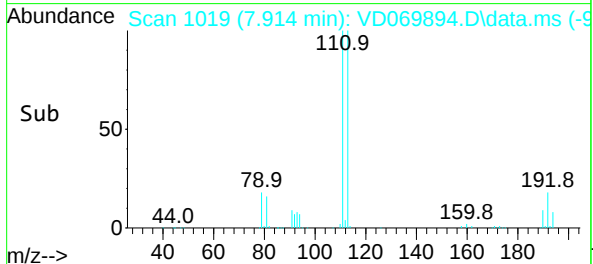
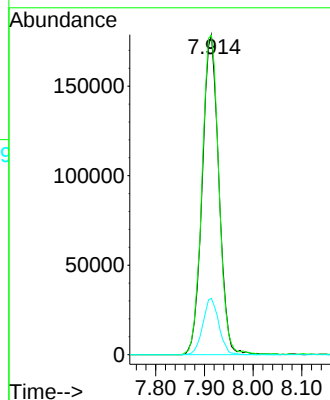
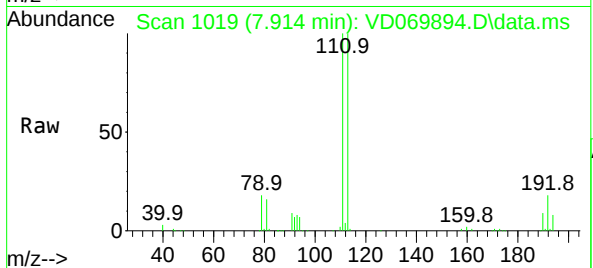
Tgt Ion:113 Resp: 422630

Ion Ratio Lower Upper

113 100

111 101.7 80.5 120.7

192 16.9 12.6 19.0



#36

1,1-Dichloropropene

Concen: 4.103 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.130 min

Lab File: VD069894.D

Acq: 28 Jul 2021 17:48

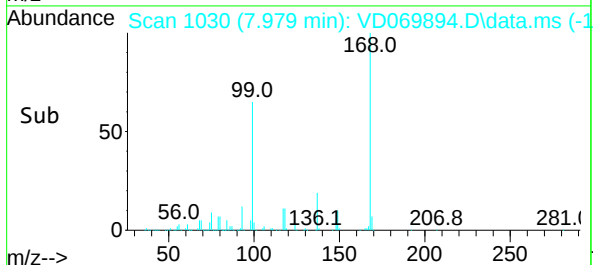
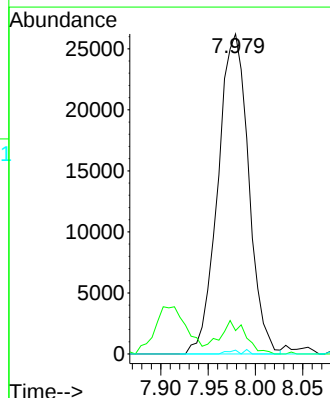
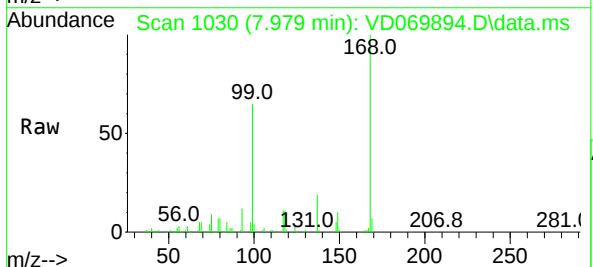
Tgt Ion: 75 Resp: 59086

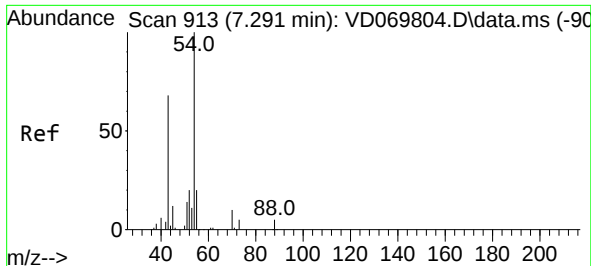
Ion Ratio Lower Upper

75 100

110 8.5 16.9 50.7#

77 0.4 24.9 37.3#

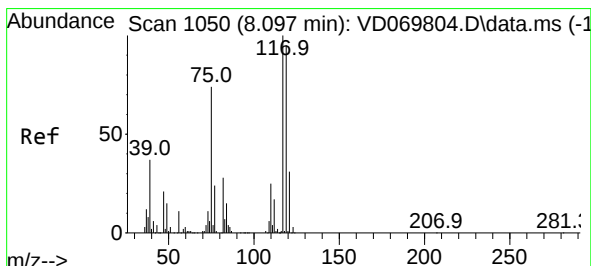
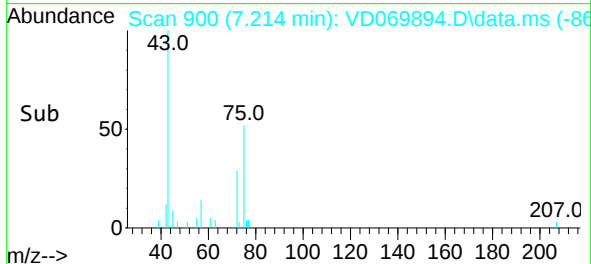
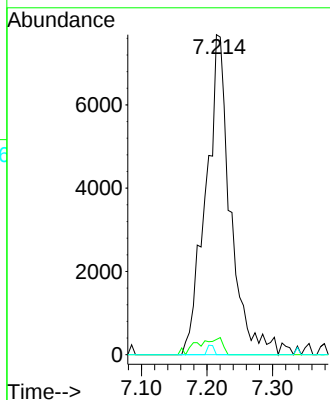
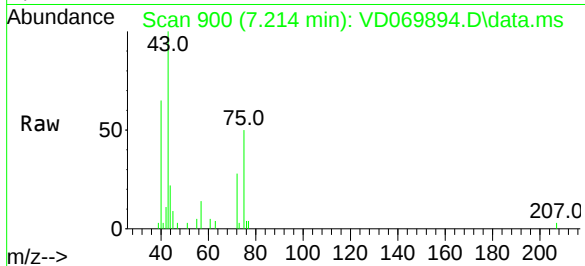




#37  
Ethyl Acetate  
Concen: 3.801 ug/l  
RT: 7.214 min Scan# 900  
Delta R.T. -0.077 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

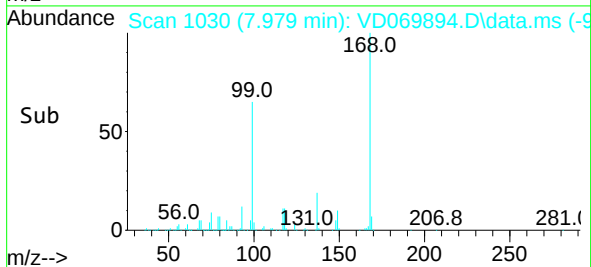
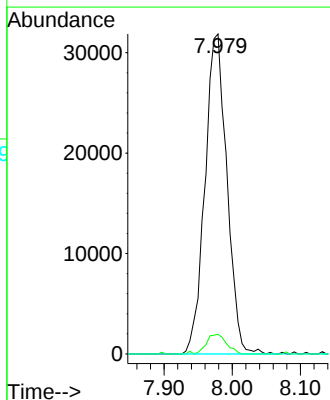
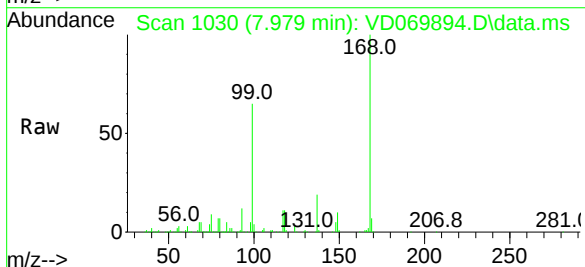
Instrument :  
MSVOA\_D  
ClientSampled :

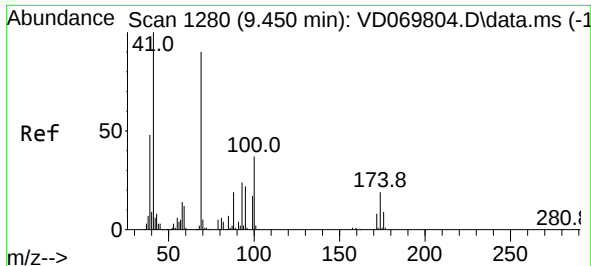
Tgt Ion: 43 Resp: 19926  
Ion Ratio Lower Upper  
43 100  
61 3.4 11.8 17.8#  
70 0.8 8.9 13.3#



#38  
Carbon Tetrachloride  
Concen: 5.437 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.118 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

Tgt Ion: 117 Resp: 71518  
Ion Ratio Lower Upper  
117 100  
119 6.1 76.2 114.2#  
121 0.0 24.5 36.7#

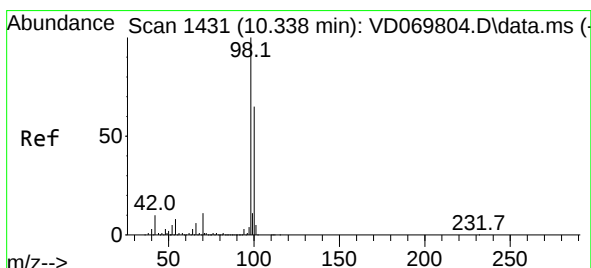
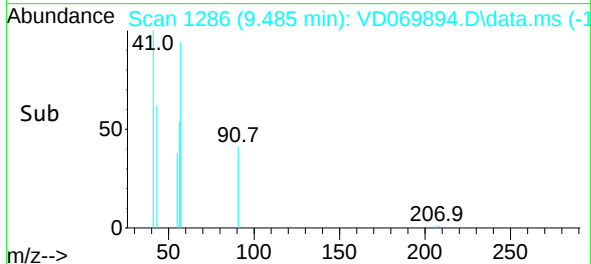
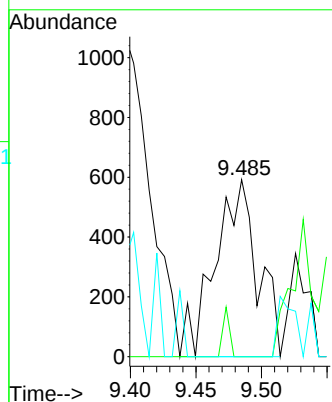
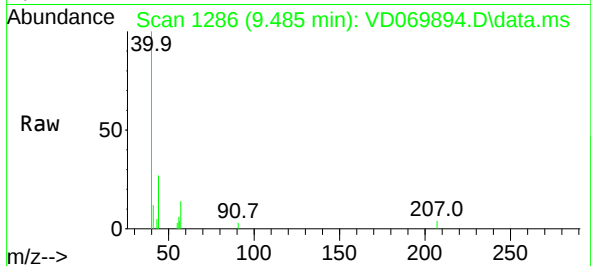




#48  
Methyl methacrylate  
Concen: 3.000 ug/l  
RT: 9.485 min Scan# 1286  
Delta R.T. 0.035 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

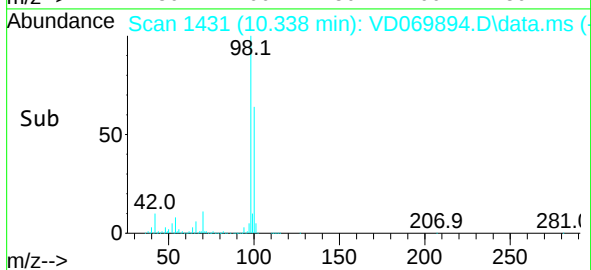
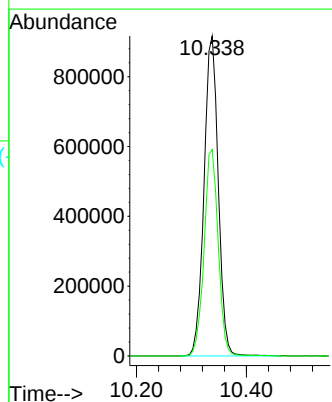
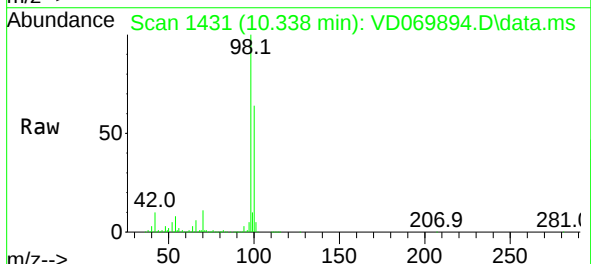
Instrument :  
MSVOA\_D  
ClientSampled :

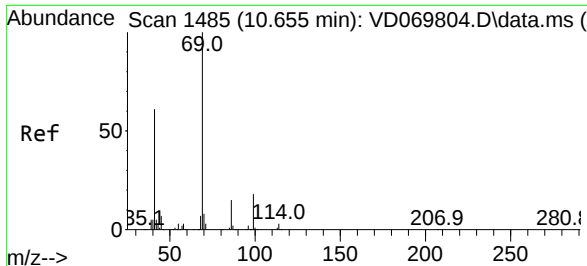
Tgt Ion: 41 Resp: 1340  
Ion Ratio Lower Upper  
41 100  
69 0.0 73.4 110.2#  
39 0.0 36.6 55.0#



#50  
Toluene-d8  
Concen: 50.781 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

Tgt Ion: 98 Resp: 1647033  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.9 77.9

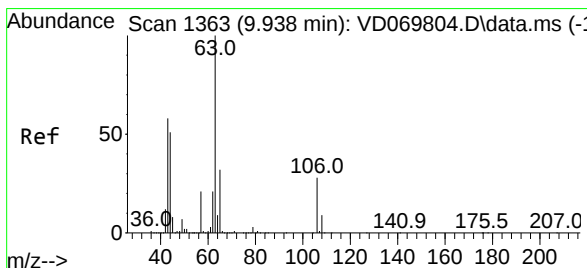
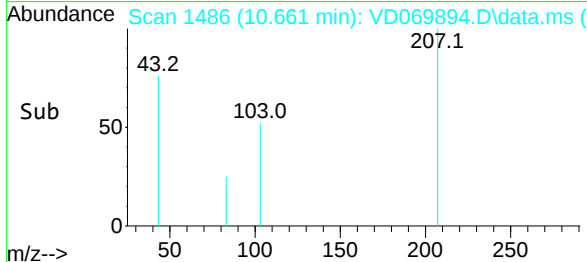
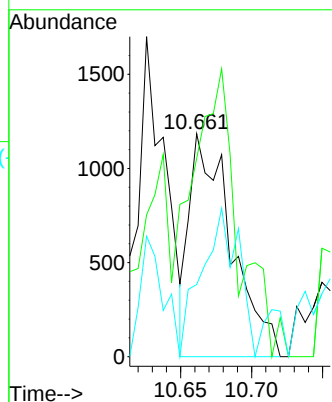
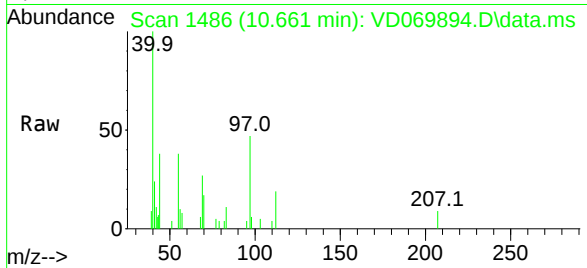




#56  
Ethyl methacrylate  
Concen: 4.134 ug/l  
RT: 10.661 min Scan# 1486  
Delta R.T. 0.006 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

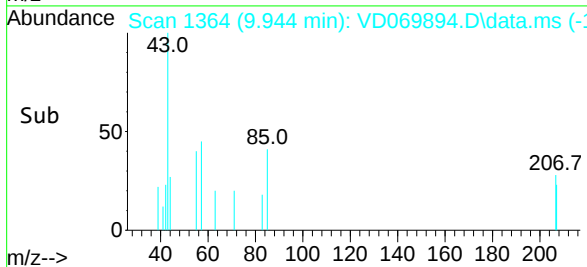
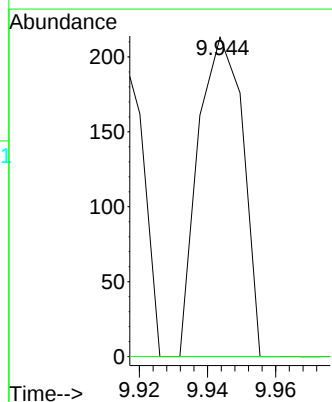
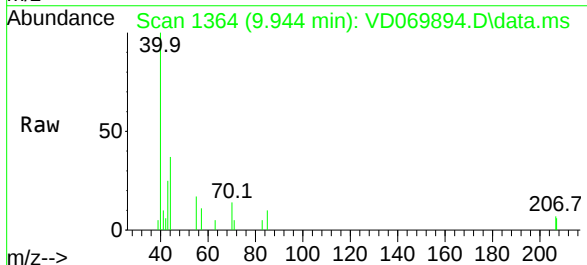
Instrument :  
MSVOA\_D  
ClientSampleId :

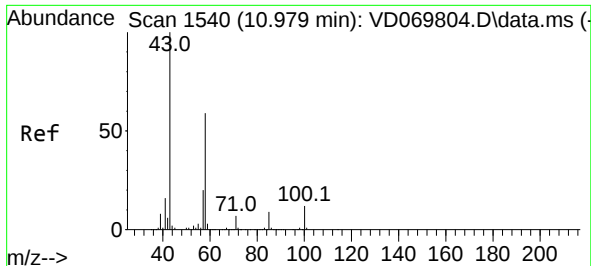
Tgt Ion: 69 Resp: 2428  
Ion Ratio Lower Upper  
69 100  
41 143.0 50.2 75.2#  
39 58.8 22.0 33.0#



#58  
2-Chloroethyl Vinyl ether  
Concen: 20.913 ug/l  
RT: 9.944 min Scan# 1364  
Delta R.T. 0.006 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

Tgt Ion: 63 Resp: 194  
Ion Ratio Lower Upper  
63 100  
106 0.0 21.8 32.6#

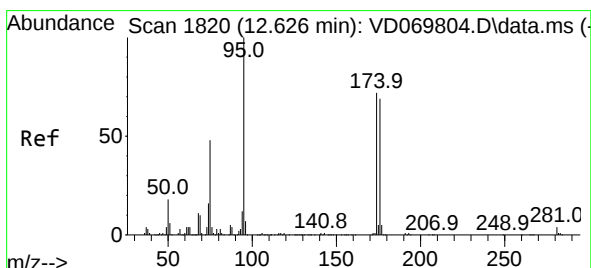
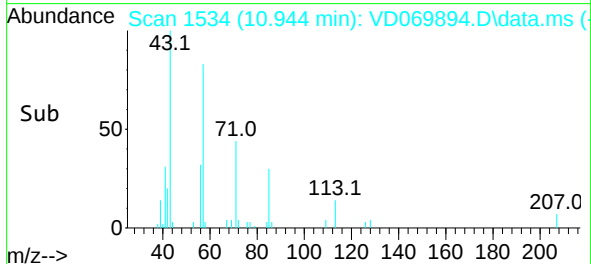
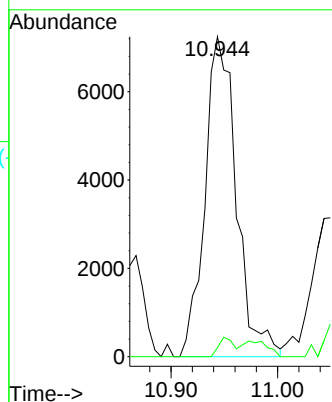
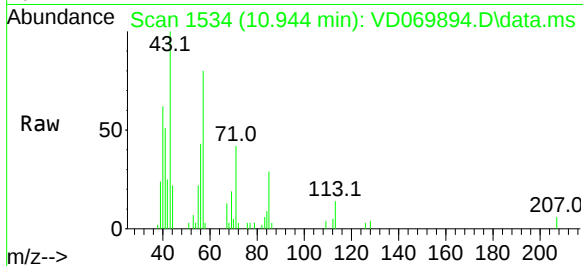




#59  
2-Hexanone  
Concen: 4.598 ug/l  
RT: 10.944 min Scan# 1534  
Delta R.T. -0.035 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

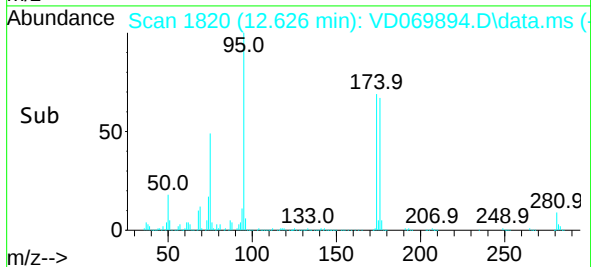
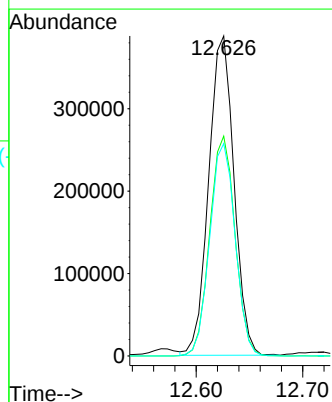
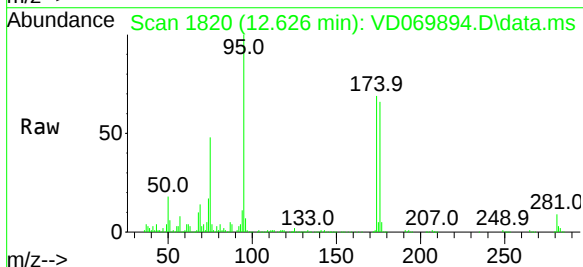
Instrument :  
MSVOA\_D  
ClientSampleId :

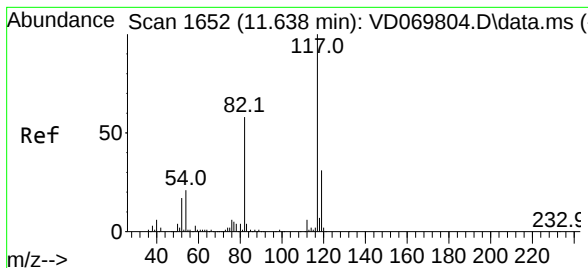
Tgt Ion: 43 Resp: 14881  
Ion Ratio Lower Upper  
43 100  
58 2.8 29.4 88.3#



#62  
4-Bromofluorobenzene  
Concen: 58.986 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

Tgt Ion: 95 Resp: 639383  
Ion Ratio Lower Upper  
95 100  
174 68.9 0.0 142.6  
176 67.0 0.0 134.2

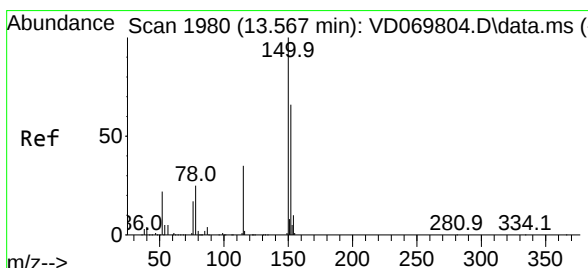
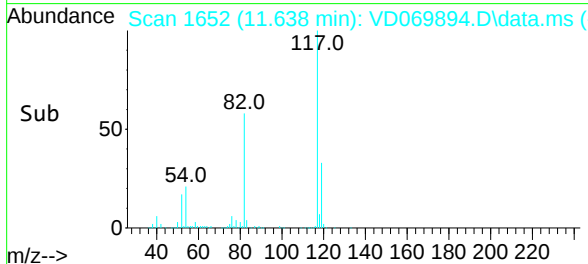
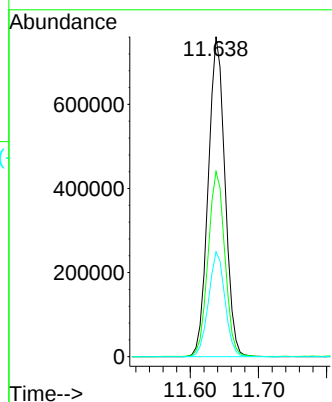
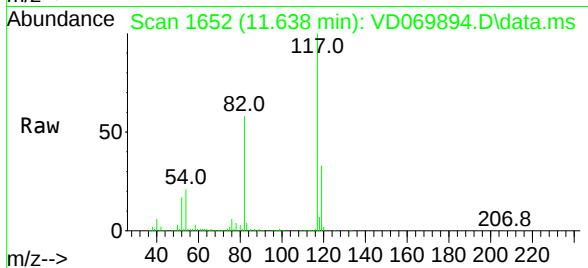




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

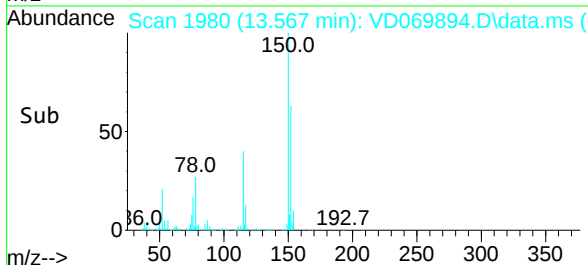
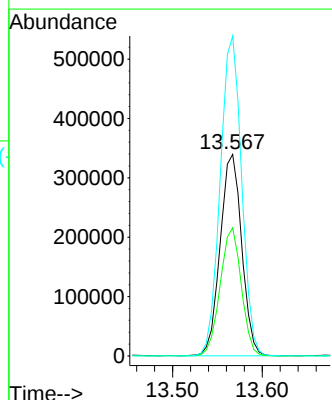
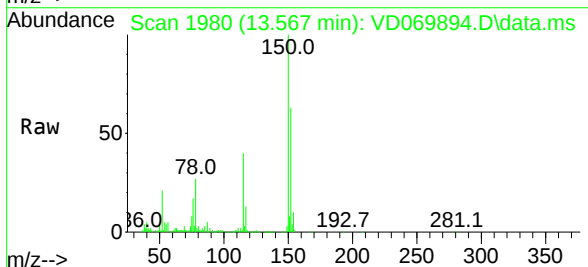
Instrument :  
MSVOA\_D  
ClientSampleId :

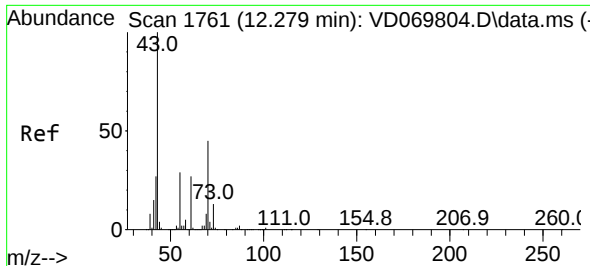
Tgt Ion:117 Resp: 1299210  
Ion Ratio Lower Upper  
117 100  
82 57.8 46.3 69.5  
119 32.8 24.7 37.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. -0.000 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

Tgt Ion:152 Resp: 566434  
Ion Ratio Lower Upper  
152 100  
115 62.3 31.1 93.3  
150 157.7 0.0 343.0

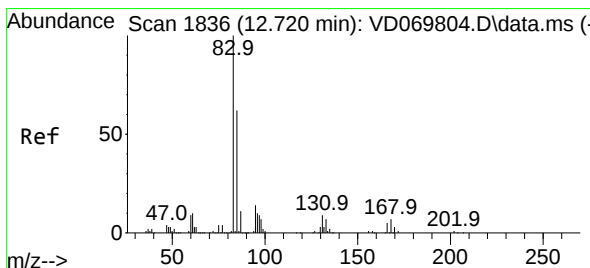
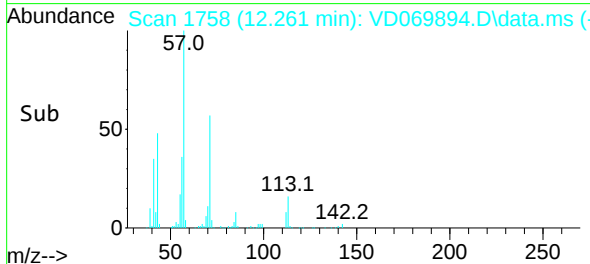
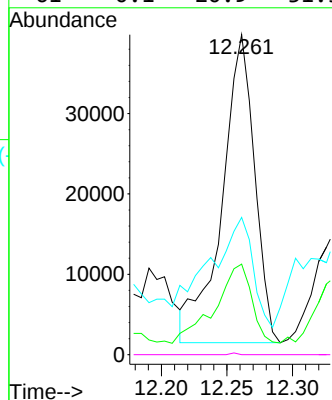
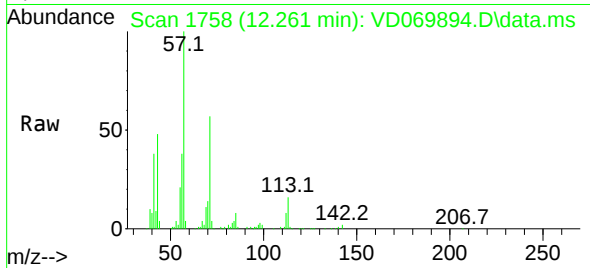




#74  
N-amy1 acetate  
Concen: 7.945 ug/l  
RT: 12.261 min Scan# 1758  
Delta R.T. -0.018 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

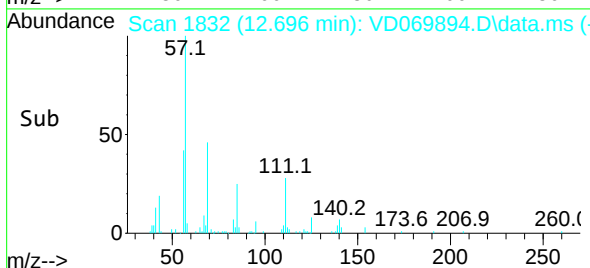
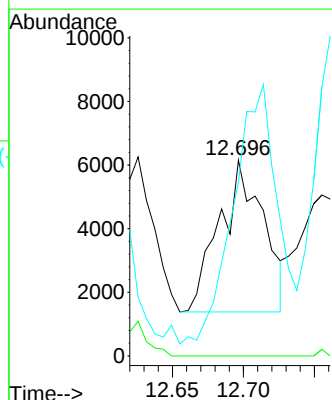
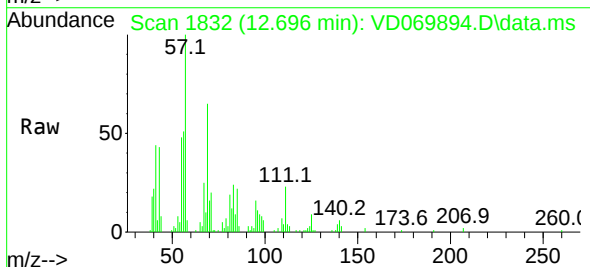
Instrument :  
MSVOA\_D  
ClientSampleId :

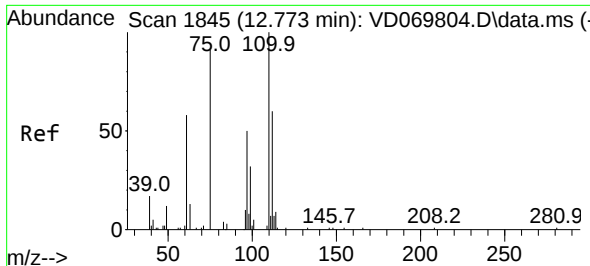
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 66511 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 70       | 28.4  | 37.9  | 56.9# |
| 55       | 49.4  | 23.7  | 35.5# |
| 61       | 0.1   | 20.9  | 31.3# |



#75  
1,1,2,2-Tetrachloroethane  
Concen: 1.267 ug/l  
RT: 12.696 min Scan# 1832  
Delta R.T. -0.024 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 10298 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 0.0   | 4.9   | 14.6# |
| 85       | 165.6 | 31.8  | 95.4# |

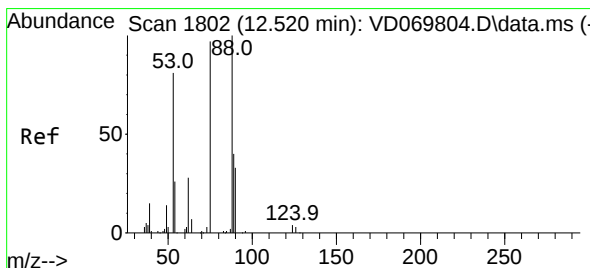
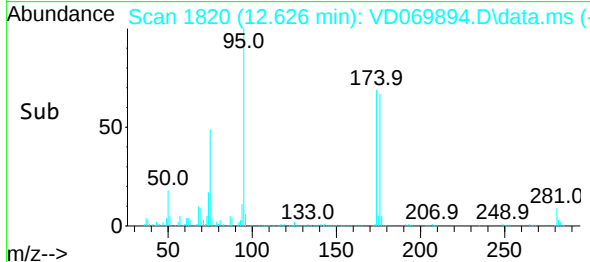
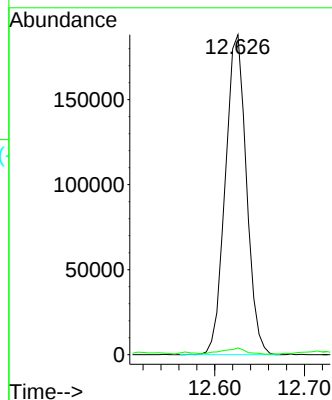
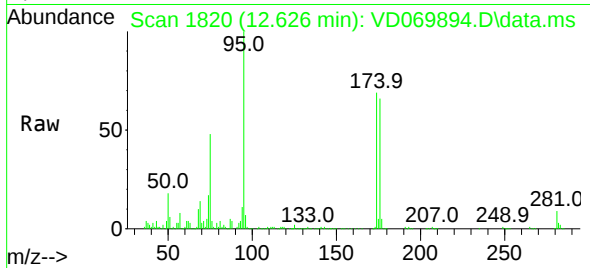




#76  
1,2,3-Trichloropropane  
Concen: 51.014 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

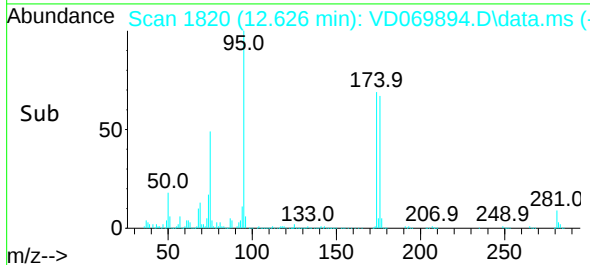
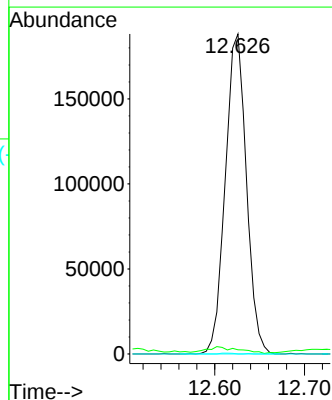
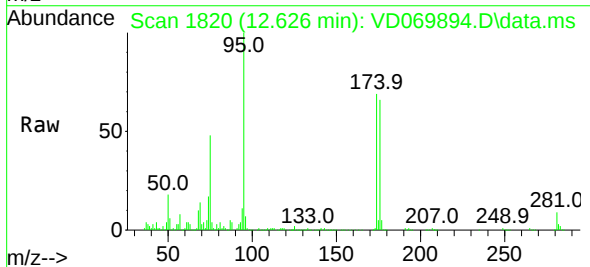
Instrument :  
MSVOA\_D  
ClientSampleId :

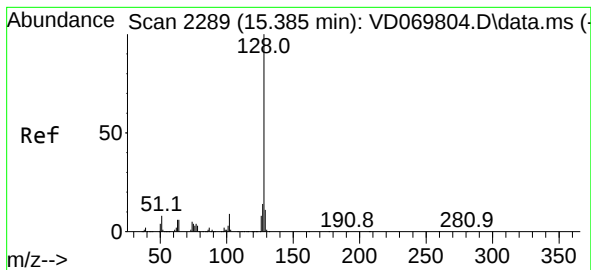
Tgt Ion: 75 Resp: 307146  
Ion Ratio Lower Upper  
75 100  
77 2.0 181.5 544.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 154.764 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.106 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

Tgt Ion: 75 Resp: 307146  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.2 100.8#  
89 0.0 35.8 53.6#





#95  
Naphthalene  
Concen: 5.202 ug/l  
RT: 15.385 min Scan# 2289  
Delta R.T. -0.000 min  
Lab File: VD069894.D  
Acq: 28 Jul 2021 17:48

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion:128 Resp: 4181  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 16.0#  
129 0.0 8.6 12.8#

