

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD042022\  
 Data File : VD072652.D  
 Acq On : 20 Apr 2022 17:33  
 Operator : VA/SY  
 Sample : N2479-01  
 Misc : 4.39G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 E14ST-EB4-041922-0-2

Quant Time: Apr 21 01:54:57 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 02:44:36 2022  
 Response via : Initial Calibration

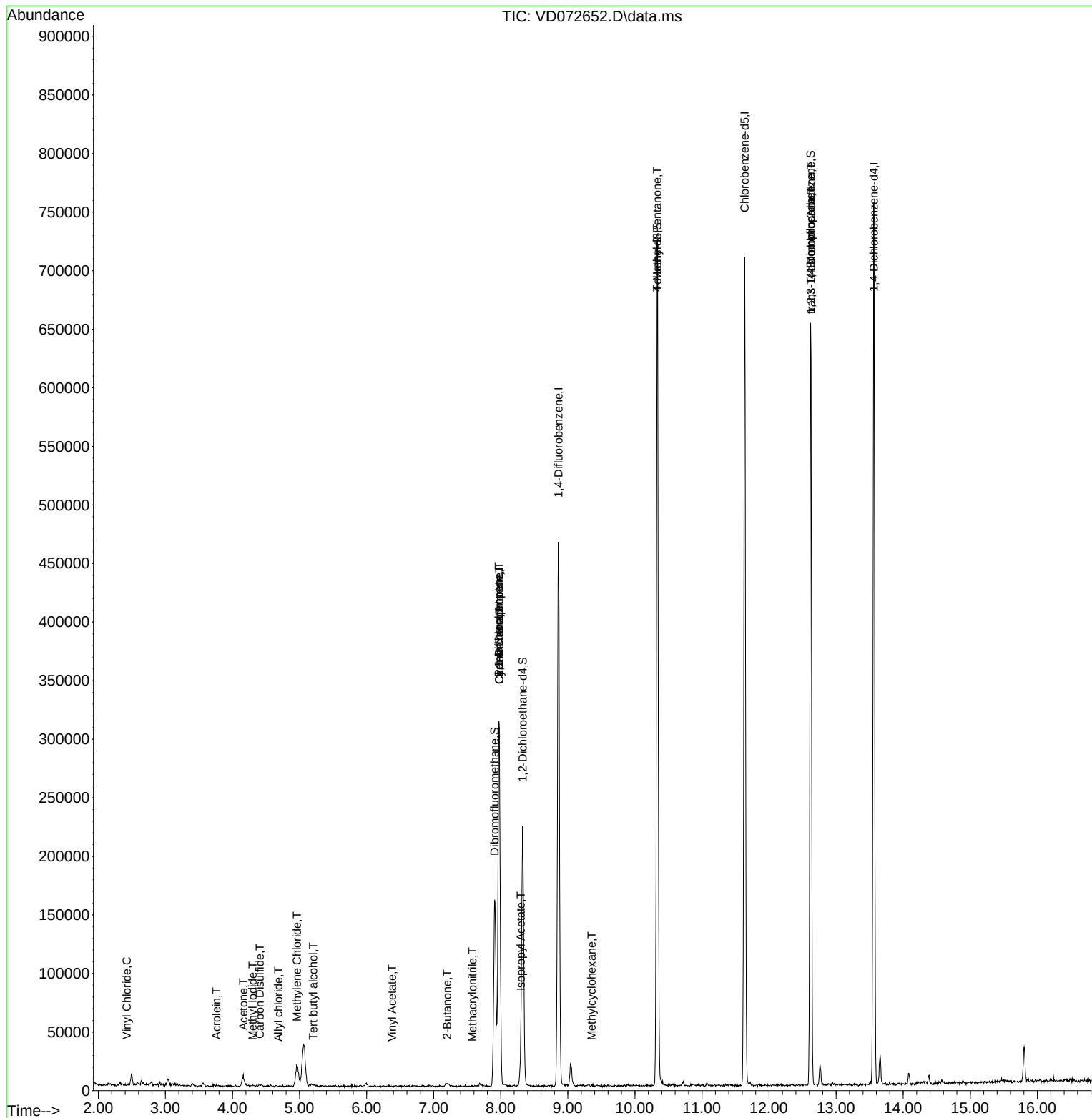
| Compound                      | R.T. QIon |       | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|--------|----------|
| -----                         |           |       |          |          |        |          |
| Internal Standards            |           |       |          |          |        |          |
| 1) Pentafluorobenzene         | 7.973     | 168   | 224956   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861     | 114   | 409912   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638    | 117   | 422533   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561    | 152   | 195267   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |           |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326     | 65    | 167357   | 61.499   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery | =      | 123.000% |
| 35) Dibromofluoromethane      | 7.908     | 113   | 117478   | 36.878   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery | =      | 73.760%  |
| 50) Toluene-d8                | 10.332    | 98    | 498972   | 45.061   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery | =      | 90.120%  |
| 62) 4-Bromofluorobenzene      | 12.620    | 95    | 187297   | 43.309   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery | =      | 86.620%  |
| Target Compounds              |           |       |          |          |        |          |
|                               |           |       |          |          | Qvalue |          |
| 4) Vinyl Chloride             | 2.426     | 62    | 103      | 1.003    | ug/l # | 43       |
| 10) Methyl Iodide             | 4.303     | 142   | 1220     | 4.200    | ug/l # | 47       |
| 11) Tert butyl alcohol        | 5.203     | 59    | 1029     | 7.160    | ug/l # | 74       |
| 13) Acrolein                  | 3.762     | 56    | 116      | 1.819    | ug/l # | 14       |
| 14) Allyl chloride            | 4.685     | 41    | 57       | 1.143    | ug/l # | 22       |
| 16) Acetone                   | 4.162     | 43    | 14243    | 28.069   | ug/l   | 99       |
| 17) Carbon Disulfide          | 4.409     | 76    | 2928     | 4.247    | ug/l # | 74       |
| 20) Methylene Chloride        | 4.962     | 84    | 14987    | 4.961    | ug/l # | 79       |
| 23) Vinyl Acetate             | 6.379     | 43    | 60       | 6.302    | ug/l # | 75       |
| 25) 2-Butanone                | 7.203     | 43    | 2321     | 3.307    | ug/l # | 52       |
| 31) Cyclohexane               | 7.979     | 56    | 4688     | 1.317    | ug/l # | 28       |
| 36) 1,1-Dichloropropene       | 7.973     | 75    | 18125    | 5.476    | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 7.979     | 117   | 24856    | 5.664    | ug/l # | 18       |
| 39) Methylcyclohexane         | 9.355     | 83    | 154      | 2.907    | ug/l # | 68       |
| 41) Methacrylonitrile         | 7.579     | 41    | 180      | 1.835    | ug/l # | 27       |
| 43) Isopropyl Acetate         | 8.297     | 43    | 8992     | 2.777    | ug/l # | 54       |
| 51) 4-Methyl-2-Pentanone      | 10.332    | 43    | 2159     | 1.243    | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.626    | 75    | 98490    | 46.246   | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.626    | 75    | 98490    | 113.479  | ug/l # | 7        |
| -----                         |           |       |          |          |        |          |

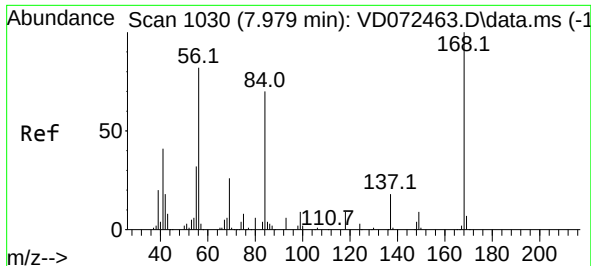
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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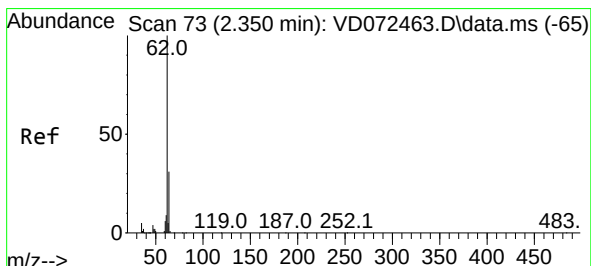
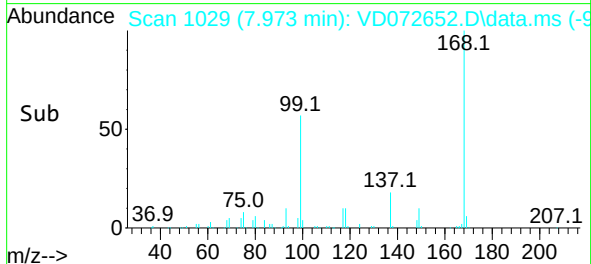
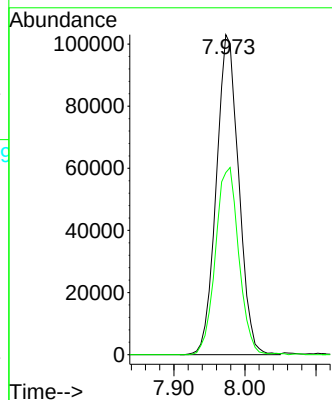
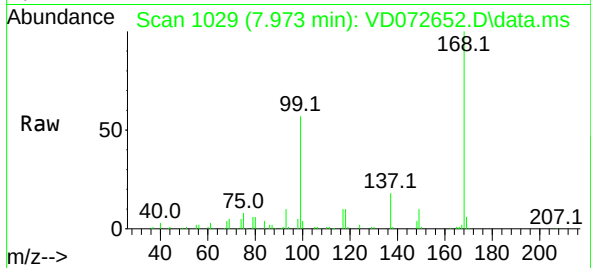




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 10  
Delta R.T. -0.006 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

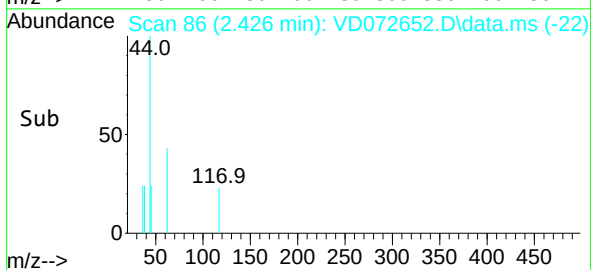
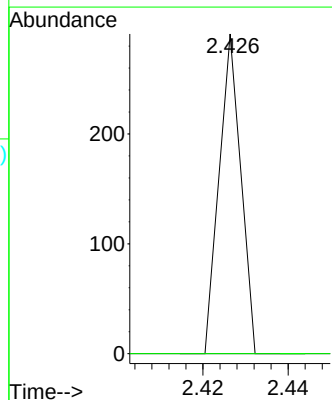
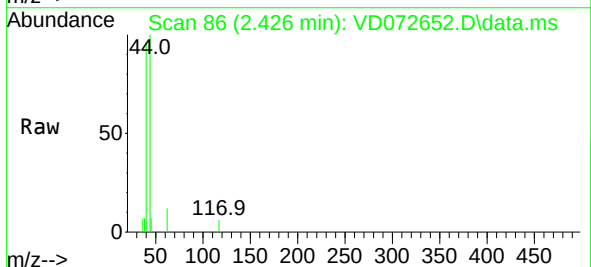
Instrument :  
MSVOA\_D  
ClientSampleId :  
E14ST-EB4-041922-0-2

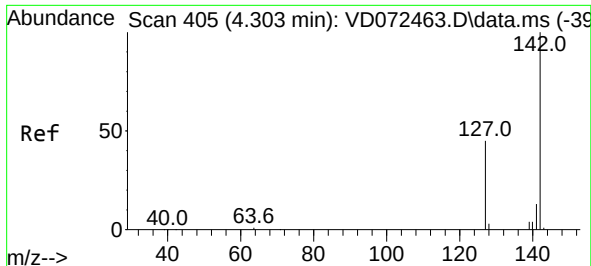
Tgt Ion:168 Resp: 224956  
Ion Ratio Lower Upper  
168 100  
99 56.9 49.8 74.6



#4  
Vinyl Chloride  
Concen: 1.003 ug/l  
RT: 2.426 min Scan# 86  
Delta R.T. 0.076 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

Tgt Ion: 62 Resp: 103  
Ion Ratio Lower Upper  
62 100  
64 0.0 25.4 38.0#

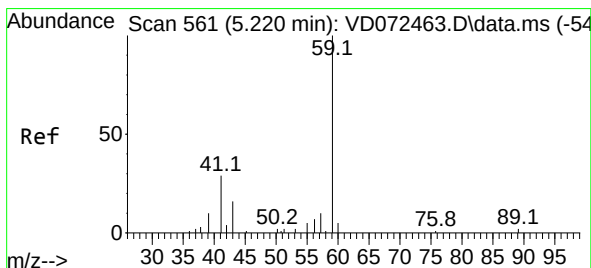
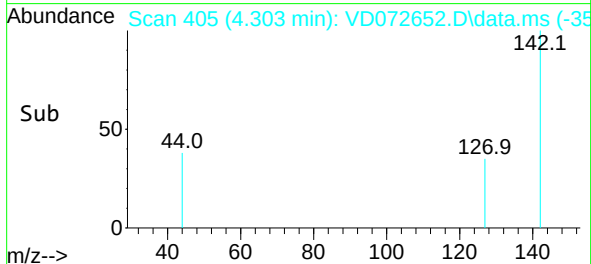
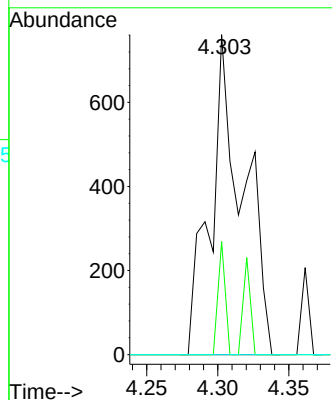
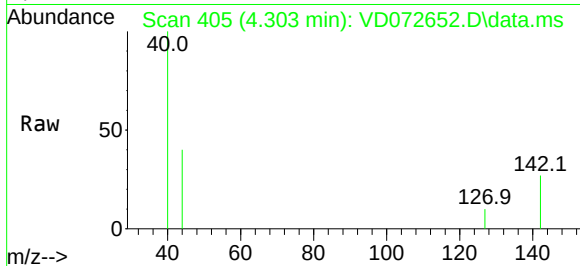




#10  
Methyl Iodide  
Concen: 4.200 ug/l  
RT: 4.303 min Scan# 40  
Delta R.T. -0.000 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

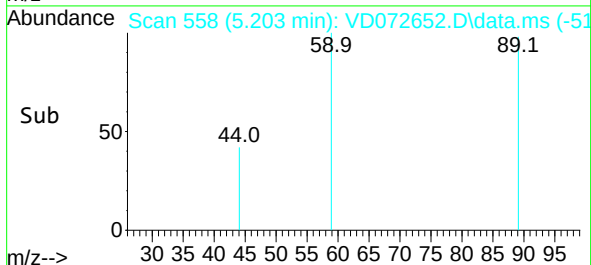
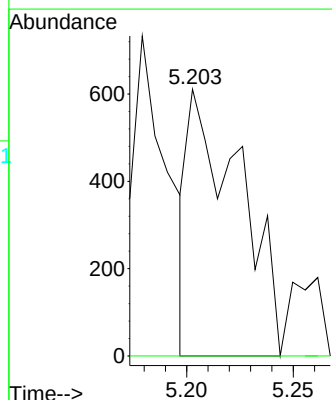
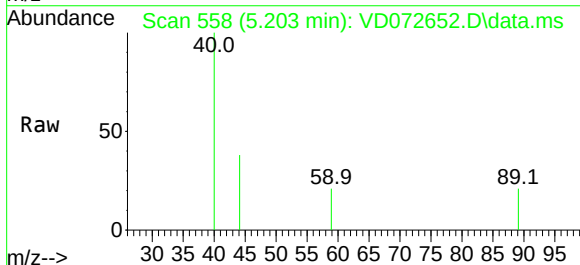
Instrument :  
MSVOA\_D  
ClientSampleId :  
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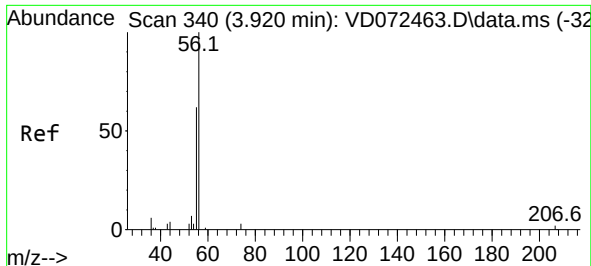
Tgt Ion:142 Resp: 1220  
Ion Ratio Lower Upper  
142 100  
127 7.8 37.3 55.9#  
141 0.0 11.7 17.5#



#11  
Tert butyl alcohol  
Concen: 7.160 ug/l  
RT: 5.203 min Scan# 558  
Delta R.T. -0.018 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

Tgt Ion: 59 Resp: 1029  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.6#

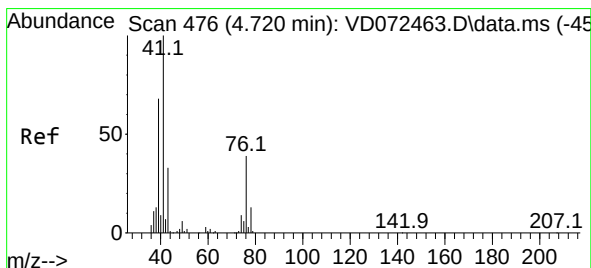
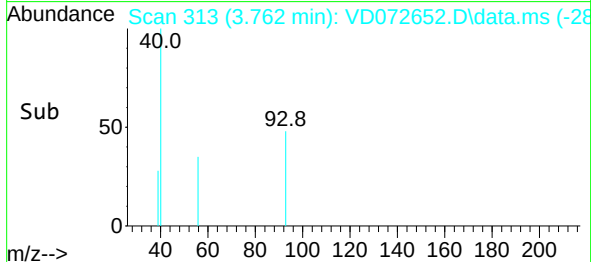
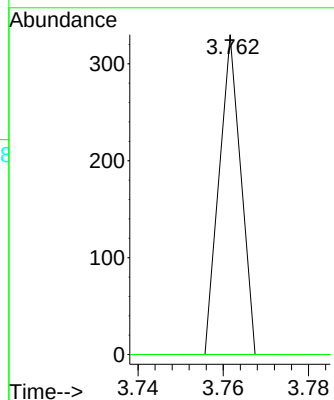
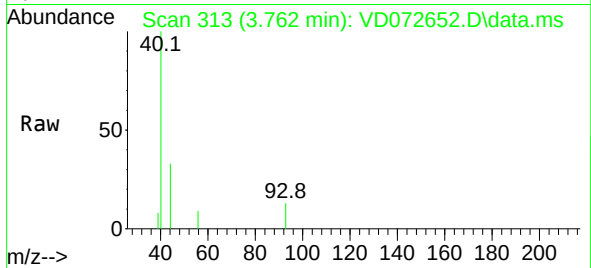




#13  
Acrolein  
Concen: 1.819 ug/l  
RT: 3.762 min Scan# 311  
Delta R.T. -0.158 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

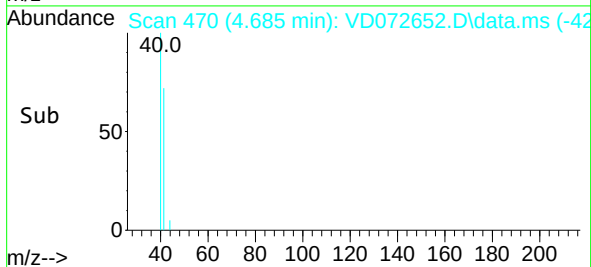
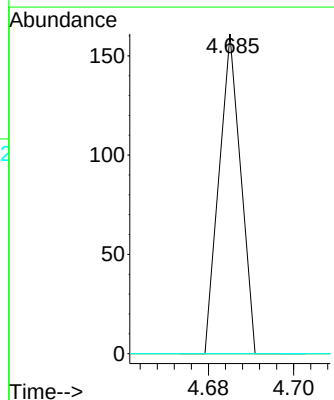
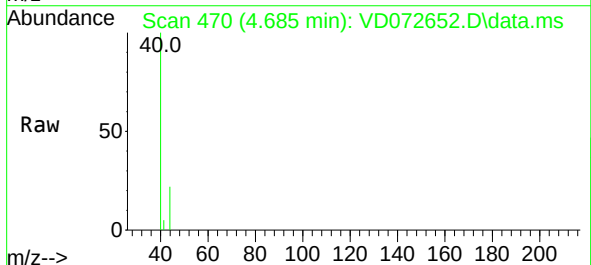
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ClientSampleId :  
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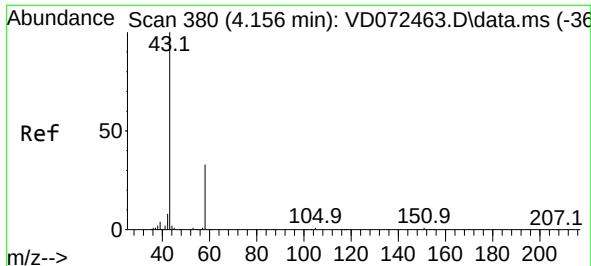
Tgt Ion: 56 Resp: 116  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.1 85.7#



#14  
Allyl chloride  
Concen: 1.143 ug/l  
RT: 4.685 min Scan# 470  
Delta R.T. -0.035 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

Tgt Ion: 41 Resp: 57  
Ion Ratio Lower Upper  
41 100  
39 0.0 59.3 88.9#  
76 0.0 25.7 38.5#

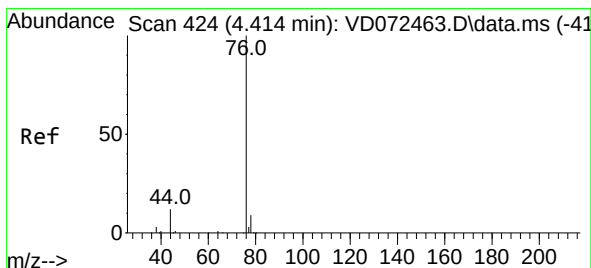
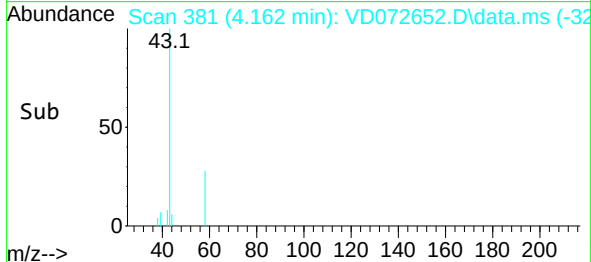
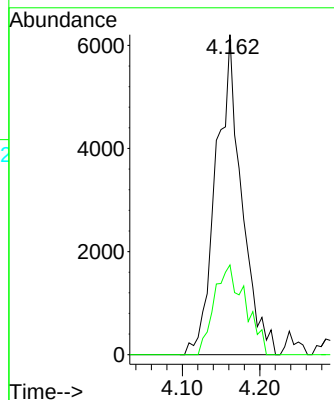
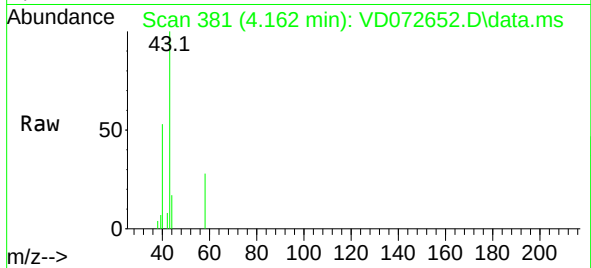




#16  
Acetone  
Concen: 28.069 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. 0.006 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

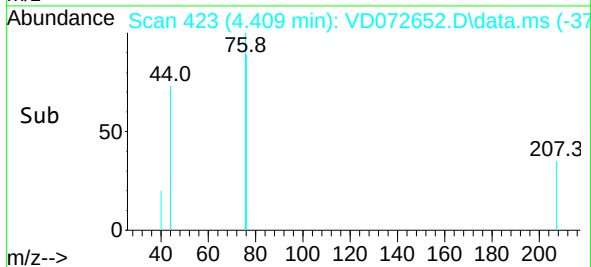
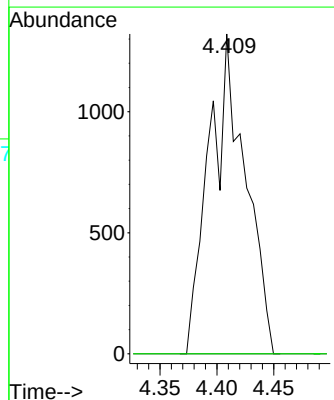
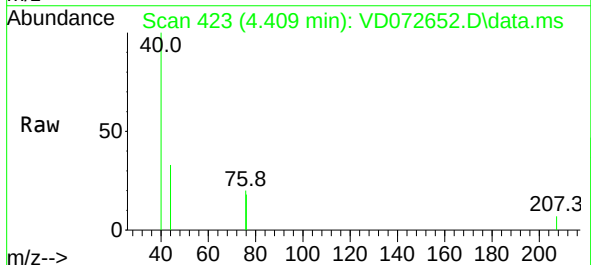
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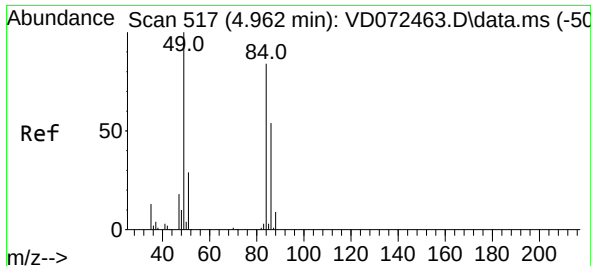
Tgt Ion: 43 Resp: 14243  
Ion Ratio Lower Upper  
43 100  
58 28.0 22.1 33.1



#17  
Carbon Disulfide  
Concen: 4.247 ug/l  
RT: 4.409 min Scan# 423  
Delta R.T. -0.005 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

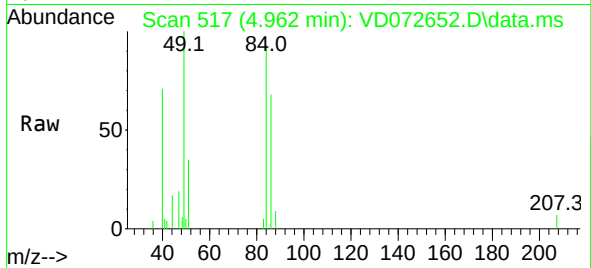
Tgt Ion: 76 Resp: 2928  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.5 11.3#



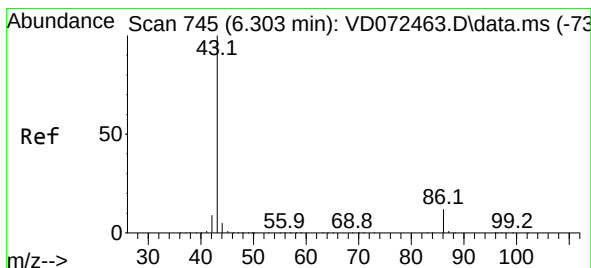
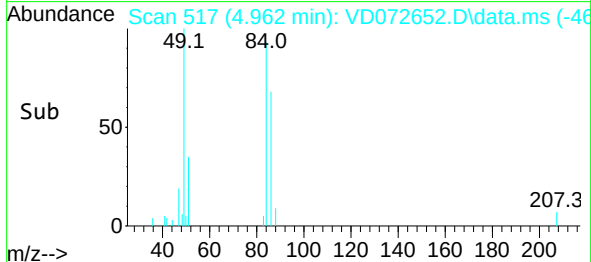
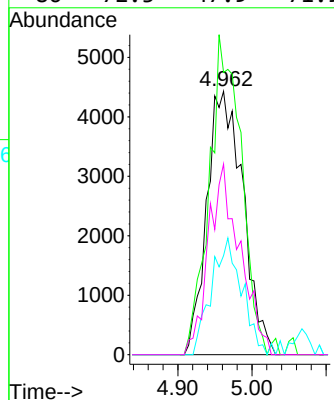


#20  
Methylene Chloride  
Concen: 4.961 ug/l  
RT: 4.962 min Scan# 517  
Delta R.T. 0.000 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

Instrument :  
MSVOA\_D  
ClientSampleId :  
E14ST-EB4-041922-0-2

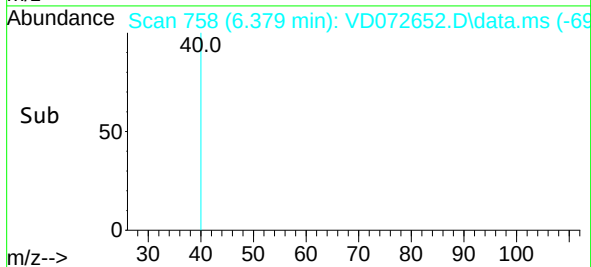
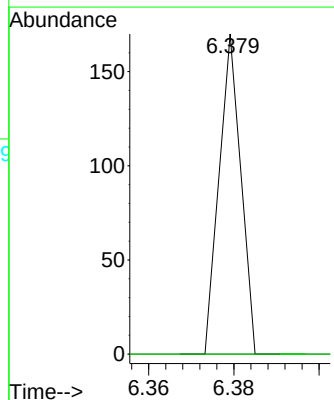
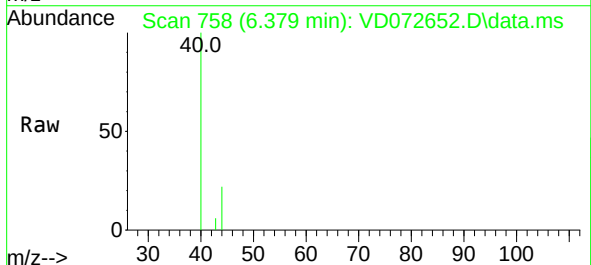


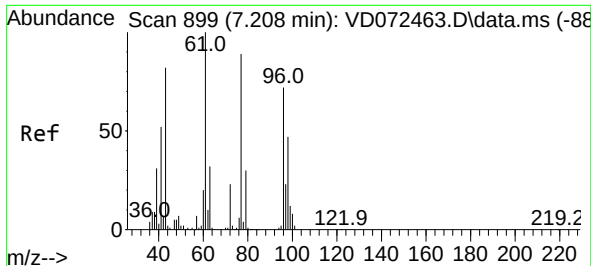
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|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 14987  |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 107.1 | 112.8 | 169.2# |
| 51       | 37.6  | 32.6  | 48.8   |
| 86       | 72.3  | 47.9  | 71.9#  |



#23  
Vinyl Acetate  
Concen: 6.302 ug/l  
RT: 6.379 min Scan# 758  
Delta R.T. 0.076 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 60    |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 7.1   | 10.7# |

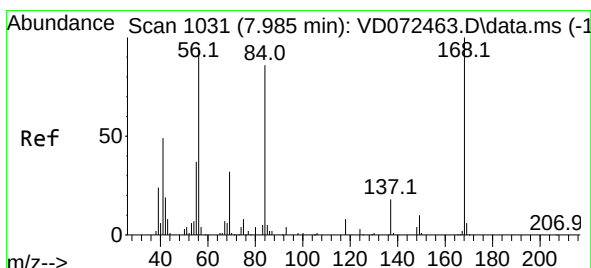
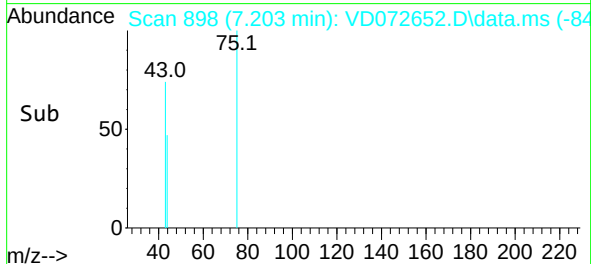
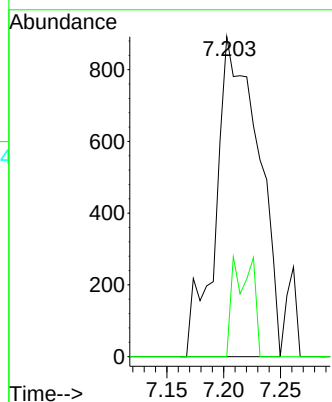
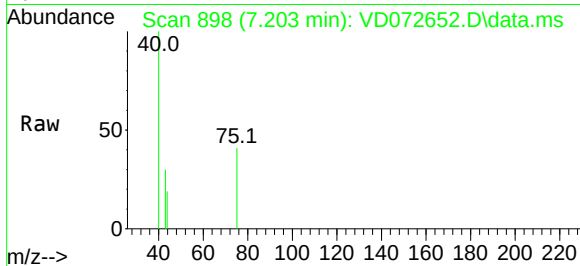




#25  
2-Butanone  
Concen: 3.307 ug/l  
RT: 7.203 min Scan# 899  
Delta R.T. -0.006 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

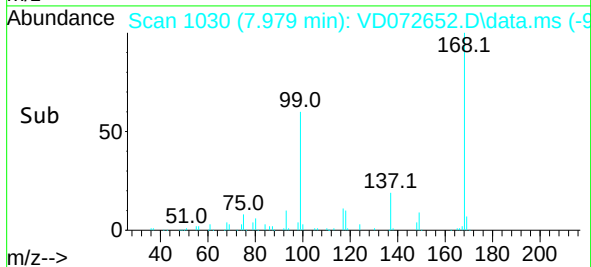
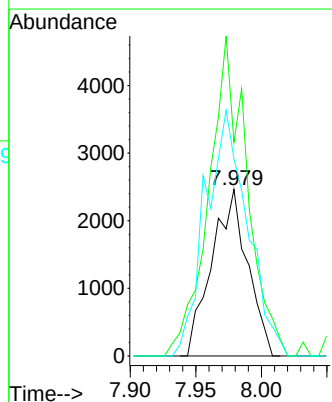
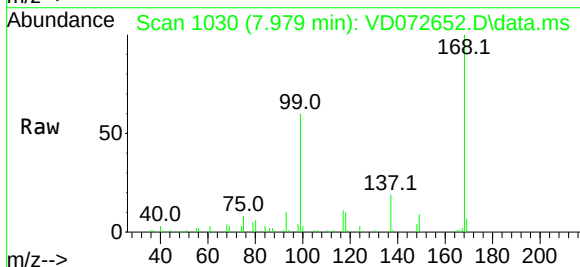
Instrument : MSVOA\_D  
ClientSampleId : E14ST-EB4-041922-0-2

Tgt Ion: 43 Resp: 2321  
Ion Ratio Lower Upper  
43 100  
72 0.0 18.6 27.8#

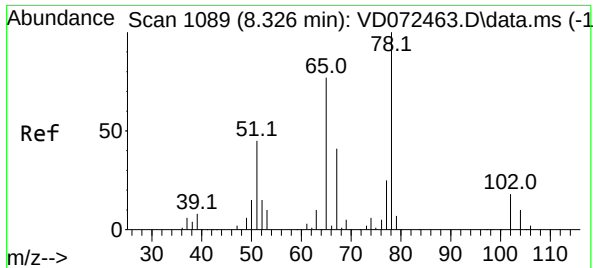


#31  
Cyclohexane  
Concen: 1.317 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

Tgt Ion: 56 Resp: 4688  
Ion Ratio Lower Upper  
56 100  
69 118.1 25.4 38.2#  
84 111.8 63.0 94.4#







#33

1,2-Dichloroethane-d4

Concen: 61.499 ug/l

RT: 8.326 min Scan# 1108

Delta R.T. 0.000 min

Lab File: VD072652.D

Acq: 20 Apr 2022 17:33

Instrument :

MSVOA\_D

ClientSampleId :

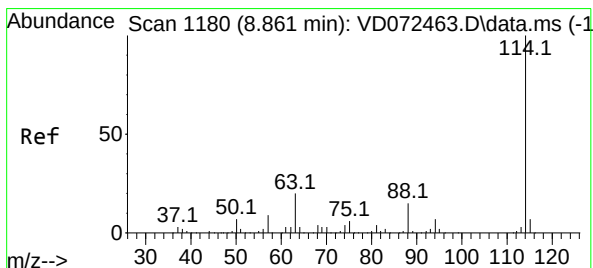
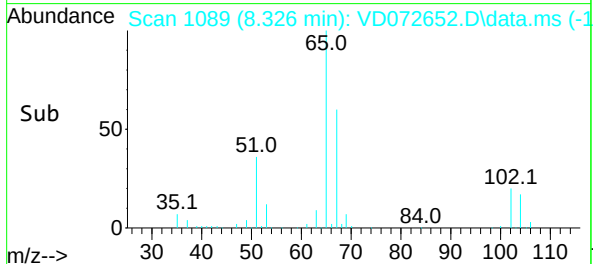
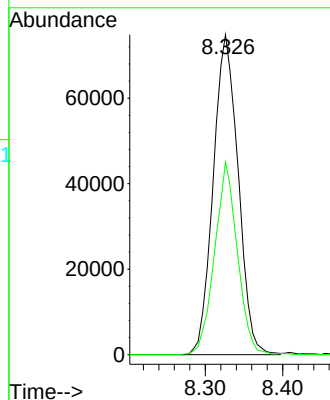
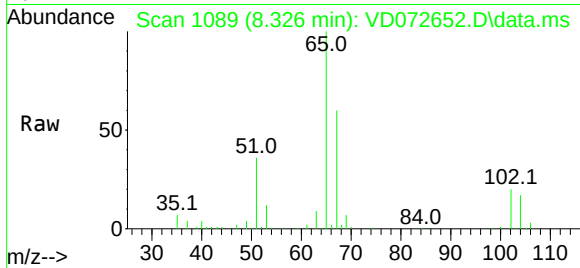
E14ST-EB4-041922-0-2

Tgt Ion: 65 Resp: 167357

Ion Ratio Lower Upper

65 100

67 55.1 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD072652.D

Acq: 20 Apr 2022 17:33

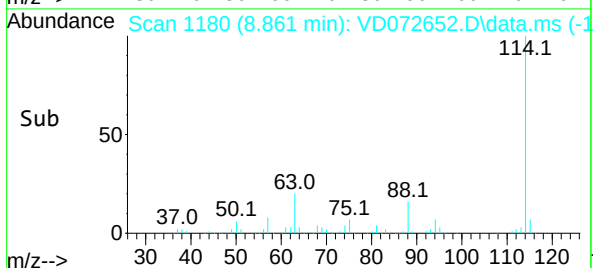
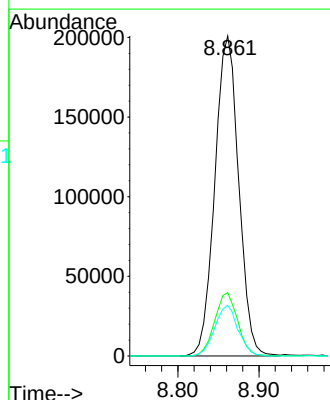
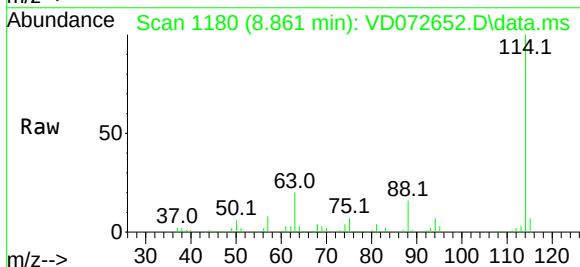
Tgt Ion: 114 Resp: 409912

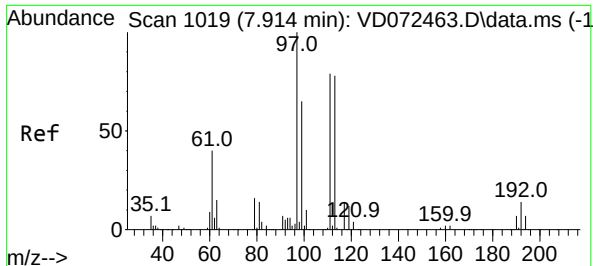
Ion Ratio Lower Upper

114 100

63 19.8 0.0 46.6

88 15.8 0.0 33.2





#35

Dibromofluoromethane

Concen: 36.878 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VD072652.D

Acq: 20 Apr 2022 17:33

Instrument :

MSVOA\_D

ClientSampleId :

E14ST-EB4-041922-0-2

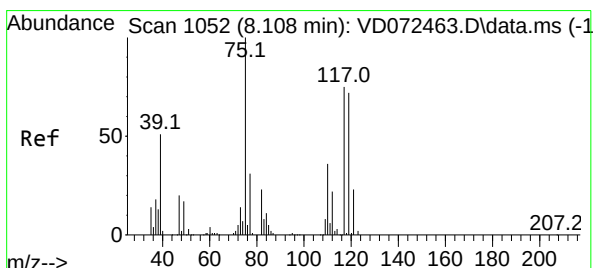
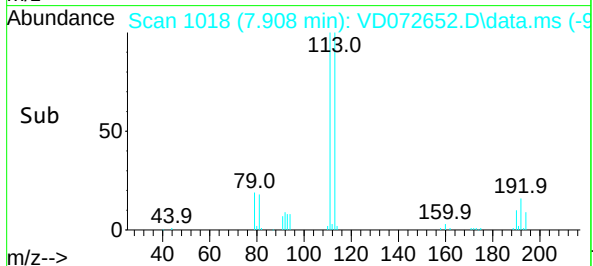
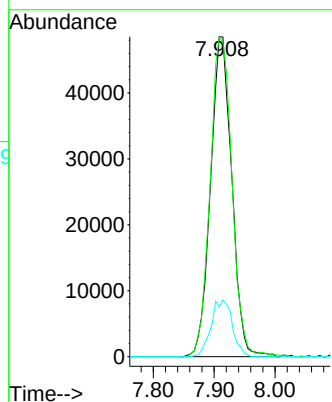
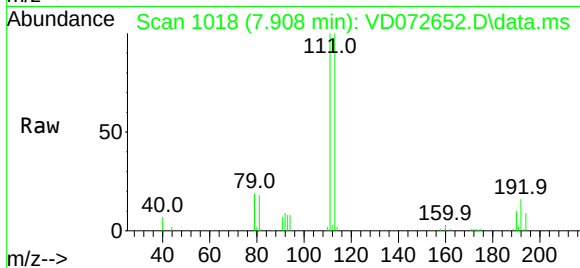
Tgt Ion:113 Resp: 117478

Ion Ratio Lower Upper

113 100

111 103.1 83.8 125.6

192 17.8 14.6 21.8



#36

1,1-Dichloropropene

Concen: 5.476 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.135 min

Lab File: VD072652.D

Acq: 20 Apr 2022 17:33

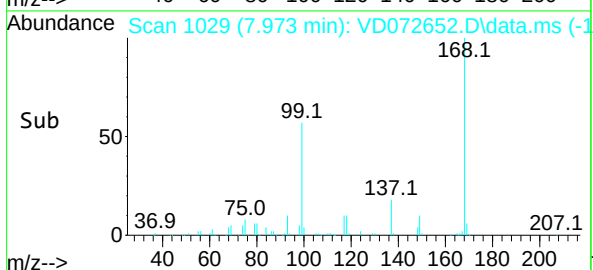
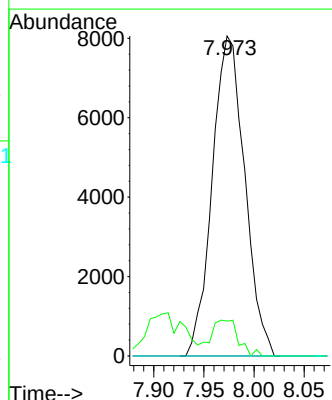
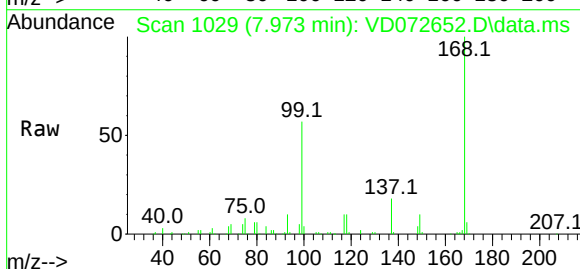
Tgt Ion: 75 Resp: 18125

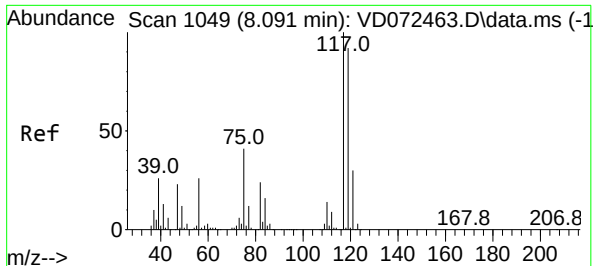
Ion Ratio Lower Upper

75 100

110 9.6 16.4 49.1#

77 0.0 24.2 36.2#

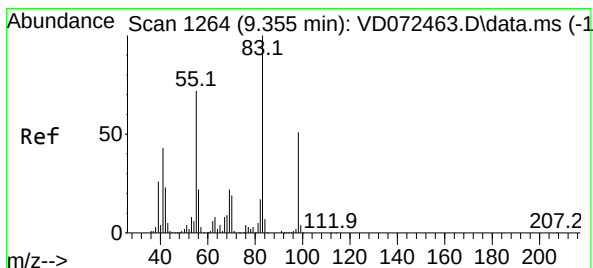
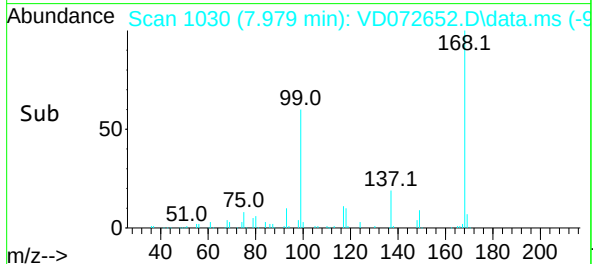
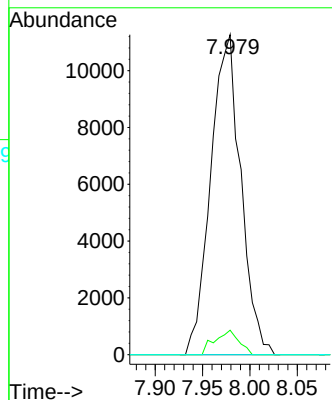
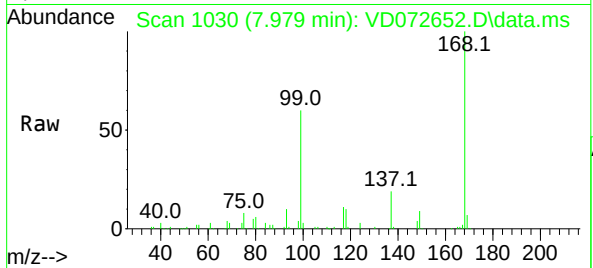




#38  
Carbon Tetrachloride  
Concen: 5.664 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.112 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

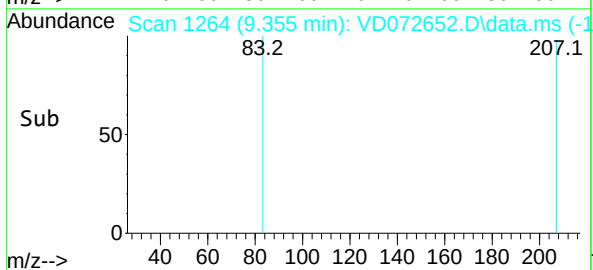
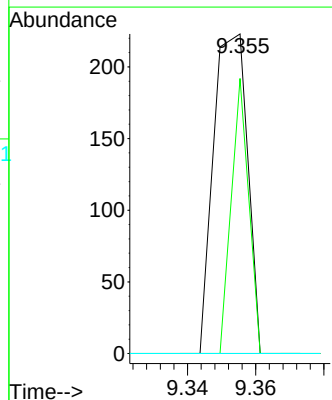
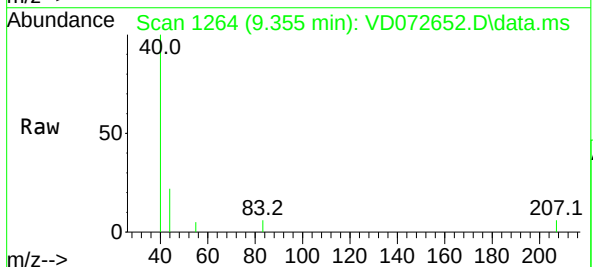
Instrument : MSVOA\_D  
ClientSampleId : E14ST-EB4-041922-0-2

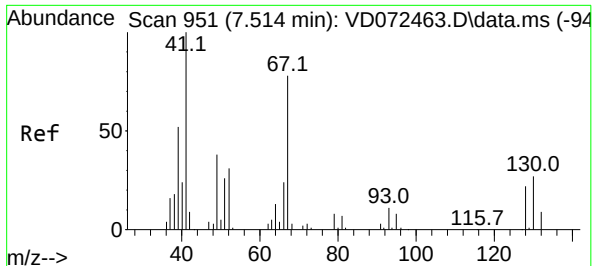
Tgt Ion: 117 Resp: 24856  
Ion Ratio Lower Upper  
117 100  
119 7.7 75.8 113.6#  
121 0.0 24.5 36.7#



#39  
Methylcyclohexane  
Concen: 2.907 ug/l  
RT: 9.355 min Scan# 1264  
Delta R.T. 0.000 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

Tgt Ion: 83 Resp: 154  
Ion Ratio Lower Upper  
83 100  
55 86.1 63.2 94.8  
98 0.0 38.2 57.4#

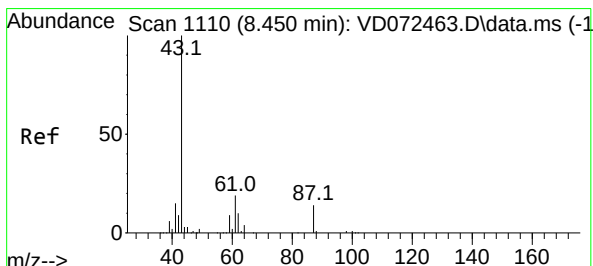
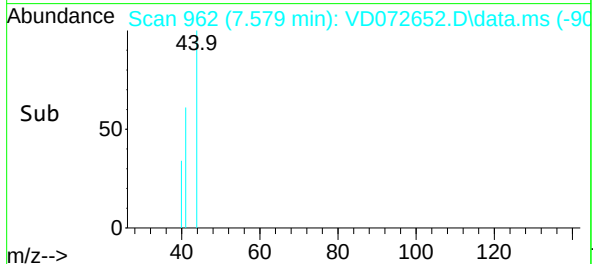
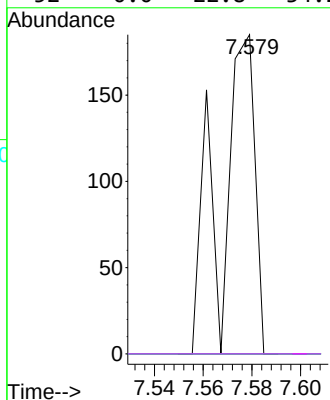
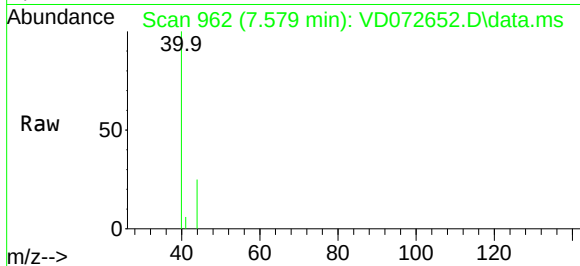




#41  
Methacrylonitrile  
Concen: 1.835 ug/l  
RT: 7.579 min Scan# 90  
Delta R.T. 0.065 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

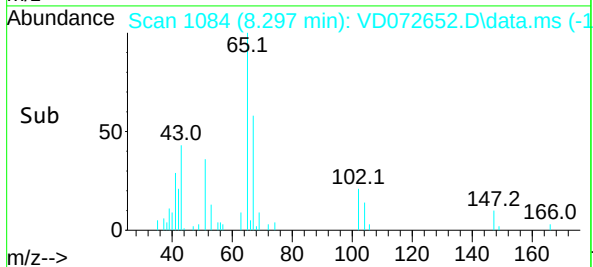
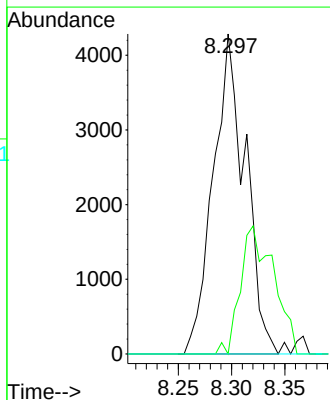
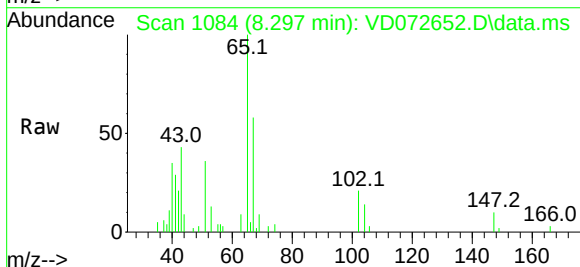
Instrument :  
MSVOA\_D  
ClientSampleId :  
E14ST-EB4-041922-0-2

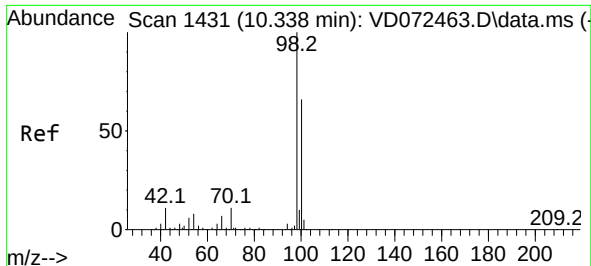
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 180   |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 0.0   | 44.6  | 67.0# |
| 67       | 0.0   | 48.2  | 72.4# |
| 52       | 0.0   | 22.8  | 34.2# |



#43  
Isopropyl Acetate  
Concen: 2.777 ug/l  
RT: 8.297 min Scan# 1084  
Delta R.T. -0.153 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 8992  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 22.4  | 33.6# |
| 87       | 0.0   | 8.7   | 13.1# |

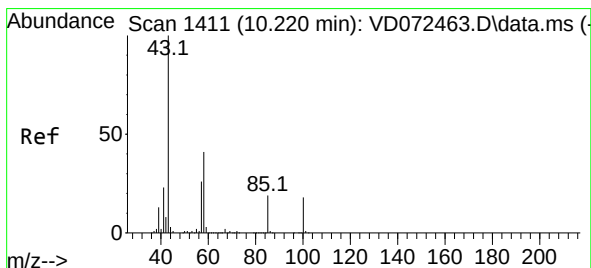
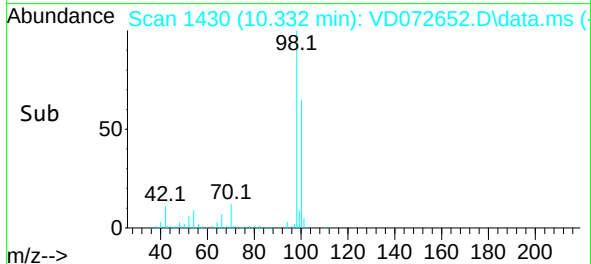
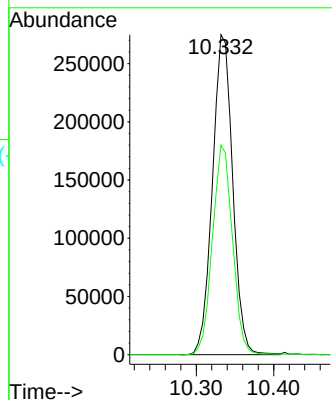
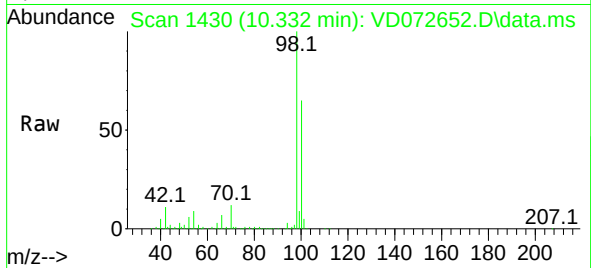




#50  
Toluene-d8  
Concen: 45.061 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.006 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

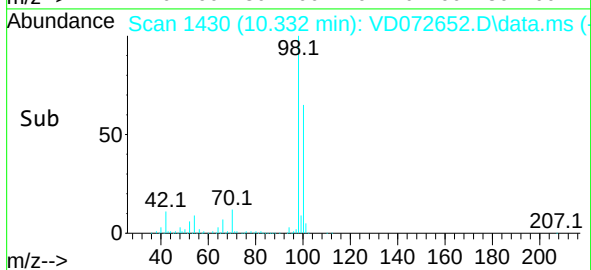
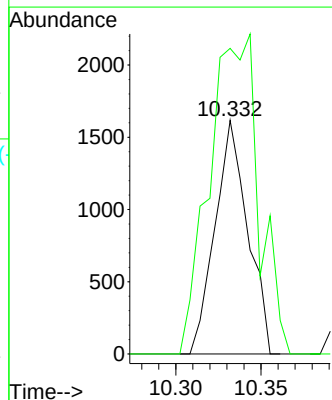
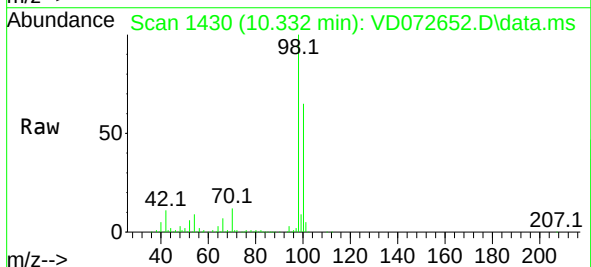
Instrument :  
MSVOA\_D  
ClientSampleId :  
E14ST-EB4-041922-0-2

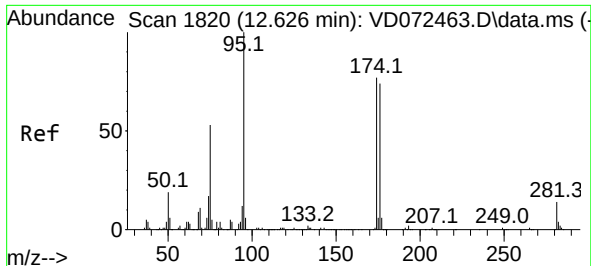
Tgt Ion: 98 Resp: 498972  
Ion Ratio Lower Upper  
98 100  
100 64.8 52.4 78.6



#51  
4-Methyl-2-Pentanone  
Concen: 1.243 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. 0.112 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

Tgt Ion: 43 Resp: 2159  
Ion Ratio Lower Upper  
43 100  
58 206.3 28.6 43.0#

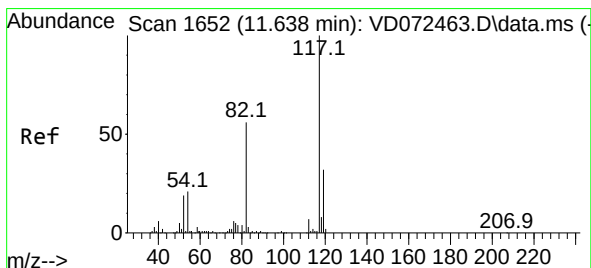
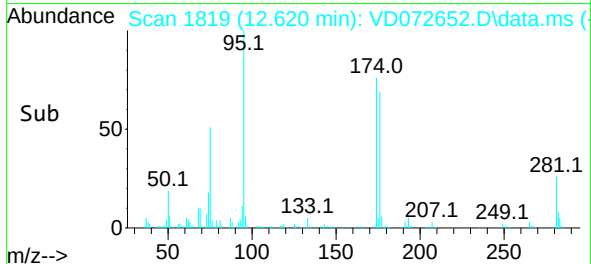
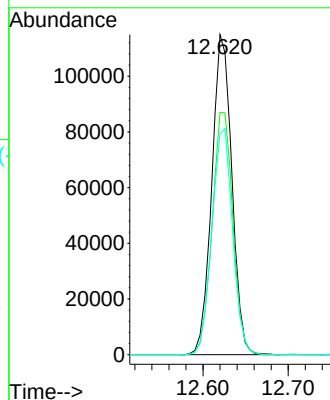
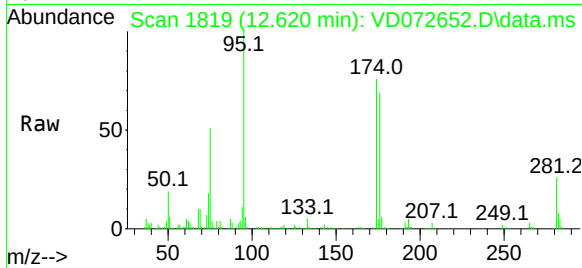




#62  
4-Bromofluorobenzene  
Concen: 43.309 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.006 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

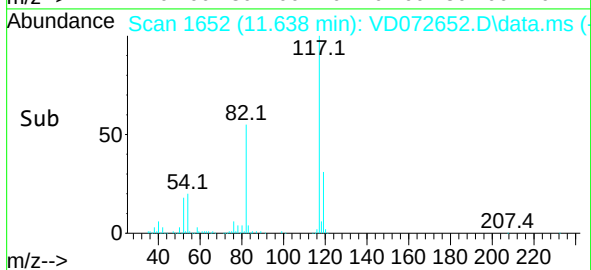
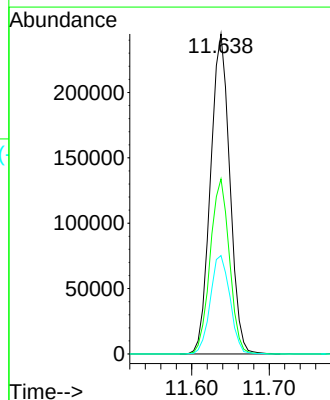
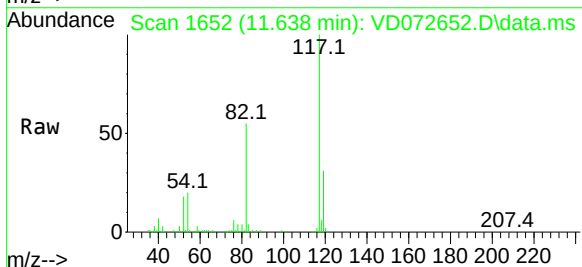
Instrument :  
MSVOA\_D  
ClientSampleId :  
E14ST-EB4-041922-0-2

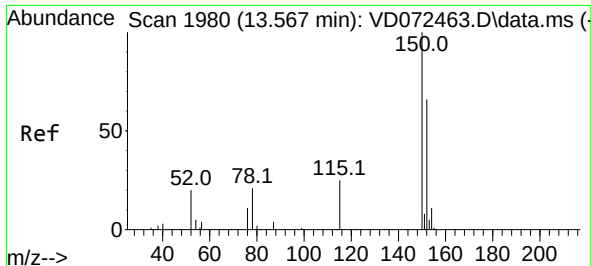
Tgt Ion: 95 Resp: 187297  
Ion Ratio Lower Upper  
95 100  
174 78.7 0.0 152.8  
176 73.0 0.0 145.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

Tgt Ion: 117 Resp: 422533  
Ion Ratio Lower Upper  
117 100  
82 54.7 45.3 67.9  
119 30.7 26.6 40.0

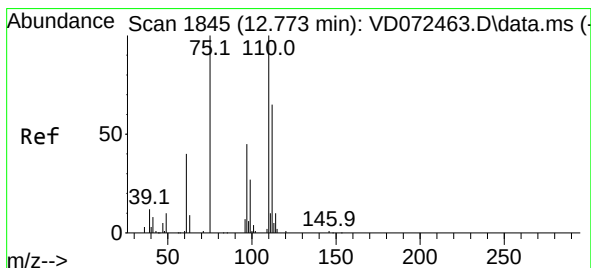
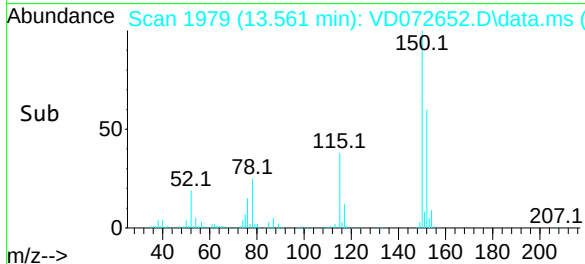
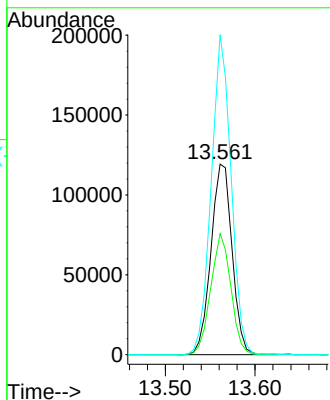
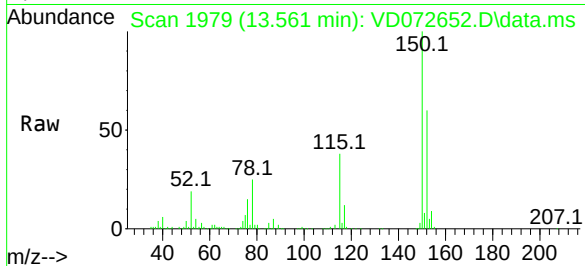




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1980  
Delta R.T. -0.006 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

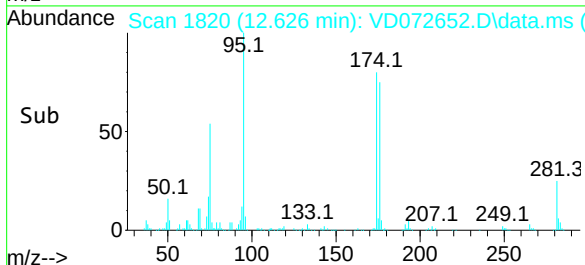
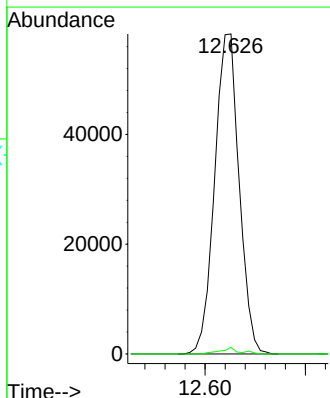
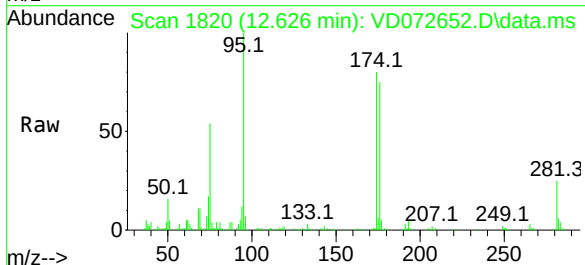
Instrument :  
MSVOA\_D  
ClientSampleId :  
E14ST-EB4-041922-0-2

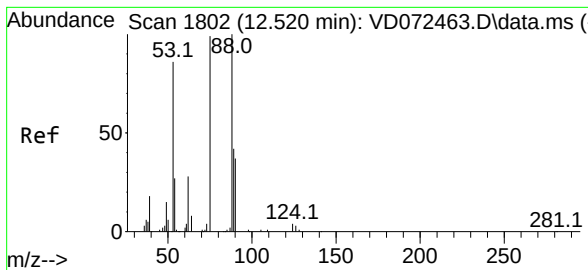
Tgt Ion:152 Resp: 195267  
Ion Ratio Lower Upper  
152 100  
115 60.4 31.3 93.8  
150 157.6 0.0 348.6



#76  
1,2,3-Trichloropropane  
Concen: 46.246 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD072652.D  
Acq: 20 Apr 2022 17:33

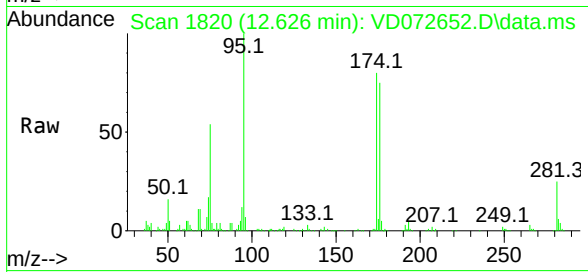
Tgt Ion: 75 Resp: 98490  
Ion Ratio Lower Upper  
75 100  
77 1.5 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 113.479 ug/l  
 RT: 12.626 min Scan# 11  
 Delta R.T. 0.106 min  
 Lab File: VD072652.D  
 Acq: 20 Apr 2022 17:33

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 E14ST-EB4-041922-0-2



Tgt Ion: 75 Resp: 98490  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 86.5 129.7#  
 89 0.3 33.9 50.9#

