

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052122\  
 Data File : VD073262.D  
 Acq On : 22 May 2022 08:29  
 Operator : VA/SY  
 Sample : N2920-17  
 Misc : 4.94G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P024-SS005-0006-01

Quant Time: May 23 01:14:24 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 19 15:13:42 2022  
 Response via : Initial Calibration

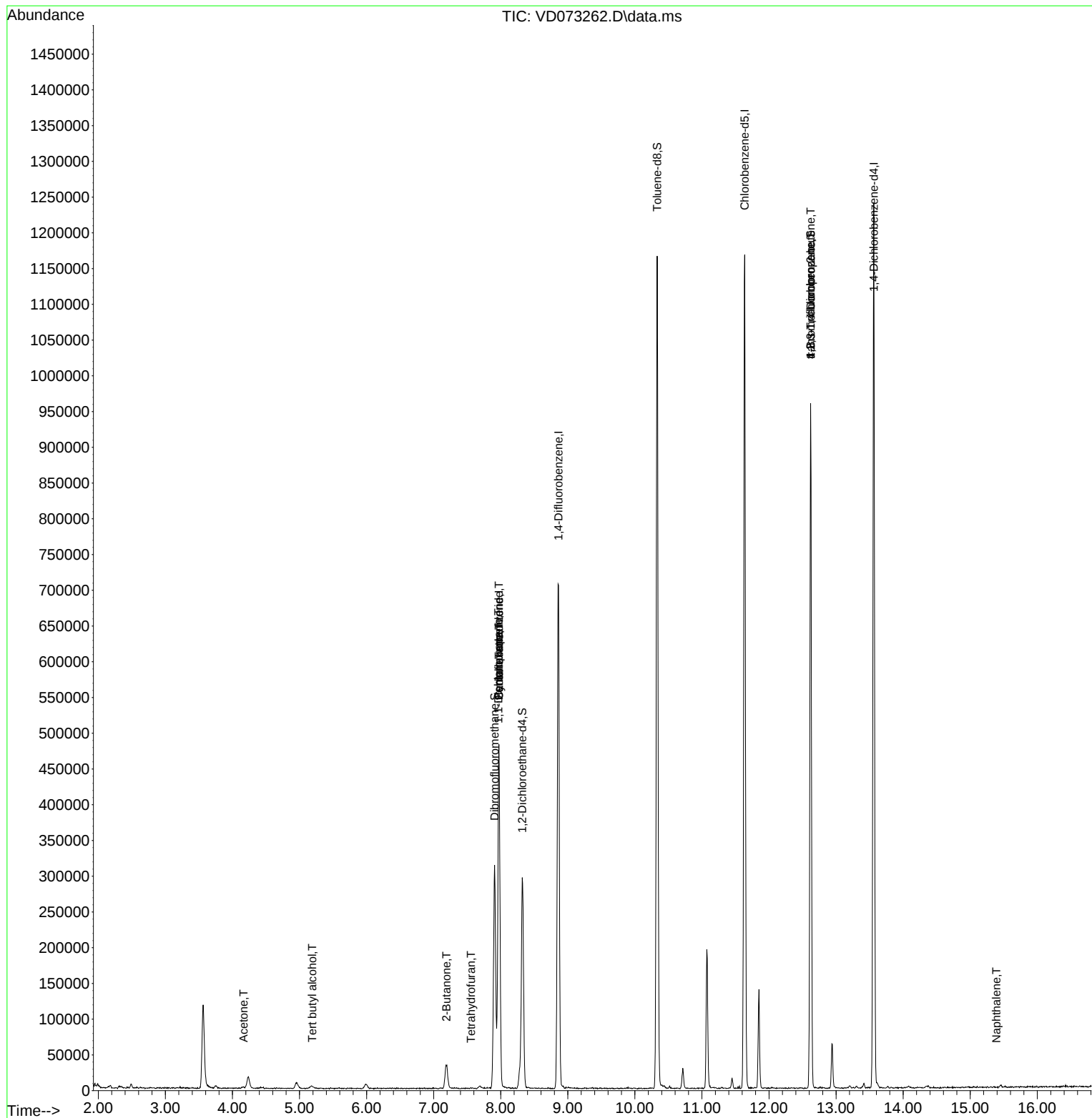
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.973          | 168  | 336839              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 619807              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 676282              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561         | 152  | 325889              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.320          | 65   | 229659              | 61.694    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 123.380% |           |        |          |
| 35) Dibromofluoromethane      | 7.909          | 113  | 218794              | 53.496    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 107.000% |           |        |          |
| 50) Toluene-d8                | 10.332         | 98   | 772324              | 51.227    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 102.460% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.620         | 95   | 310218              | 58.632    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 117.260% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 5) Bromomethane               | 2.756          | 94   | 393                 | Below Cal | #      | 1        |
| 11) Tert butyl alcohol        | 5.191          | 59   | 1897                | 3.285     | ug/l # | 74       |
| 16) Acetone                   | 4.168          | 43   | 3629                | 5.628     | ug/l   | 93       |
| 20) Methylene Chloride        | 4.956          | 84   | 6508                | Below Cal | #      | 74       |
| 25) 2-Butanone                | 7.191          | 43   | 2156                | 2.285     | ug/l # | 52       |
| 29) Tetrahydrofuran           | 7.556          | 42   | 623                 | 1.021     | ug/l # | 45       |
| 31) Cyclohexane               | 7.973          | 56   | 7868                | 1.209     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.967          | 75   | 30466               | 4.953     | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 7.973          | 117  | 35999               | 5.773     | ug/l # | 17       |
| 76) 1,2,3-Trichloropropane    | 12.620         | 75   | 159187              | 49.784    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.620         | 75   | 159187              | 119.517   | ug/l # | 7        |
| 95) Naphthalene               | 15.391         | 128  | 129                 | 3.553     | ug/l # | 70       |
| -----                         |                |      |                     |           |        |          |

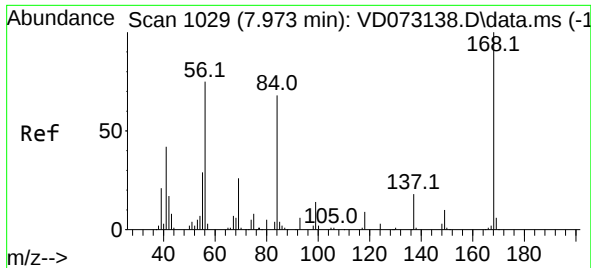
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052122\  
Data File : VD073262.D  
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Sample : N2920-17  
Misc : 4.94G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
P024-SS005-0006-01

Quant Time: May 23 01:14:24 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
Quant Title : SW846 8260  
QLast Update : Thu May 19 15:13:42 2022  
Response via : Initial Calibration

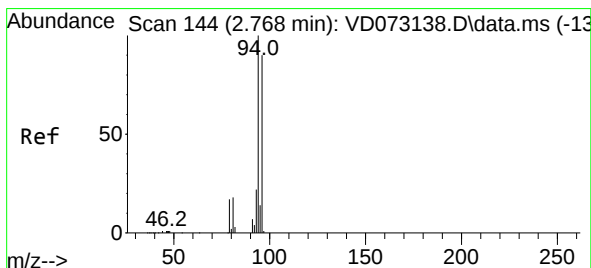
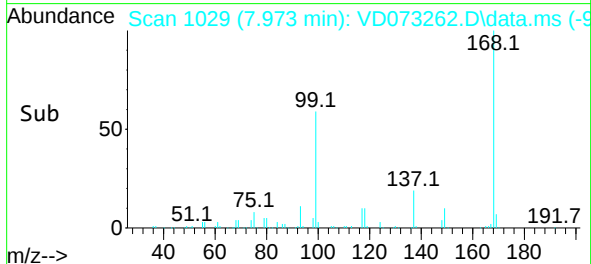
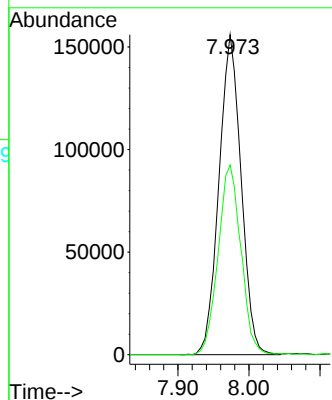
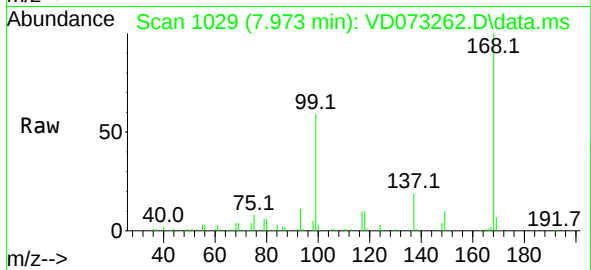




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. 0.000 min  
Lab File: VD073262.D  
Acq: 22 May 2022 08:29

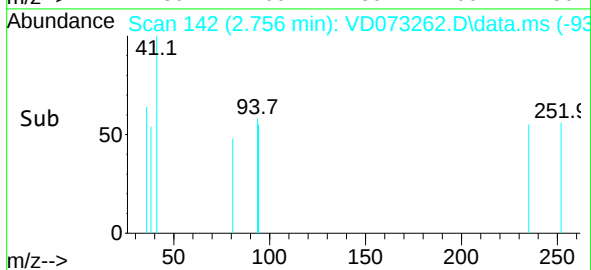
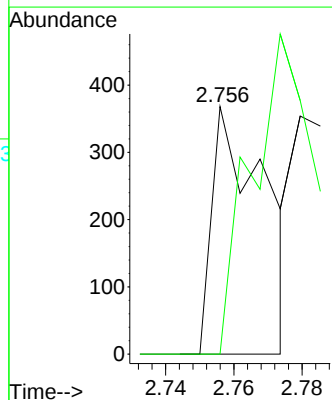
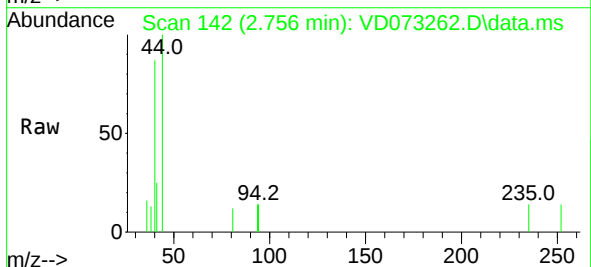
Instrument :  
MSVOA\_D  
ClientSampleId :  
P024-SS005-0006-01

Tgt Ion:168 Resp: 336839  
Ion Ratio Lower Upper  
168 100  
99 59.2 49.8 74.6



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.756 min Scan# 142  
Delta R.T. -0.012 min  
Lab File: VD073262.D  
Acq: 22 May 2022 08:29

Tgt Ion: 94 Resp: 393  
Ion Ratio Lower Upper  
94 100  
96 0.0 77.6 116.4#

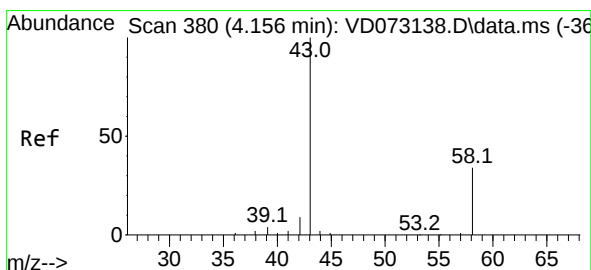
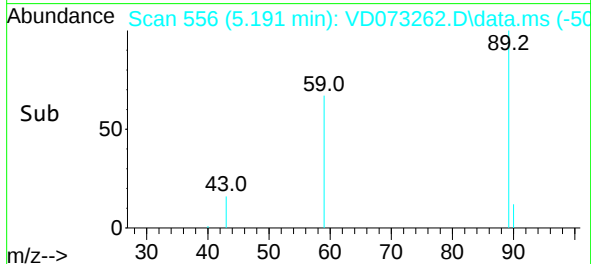
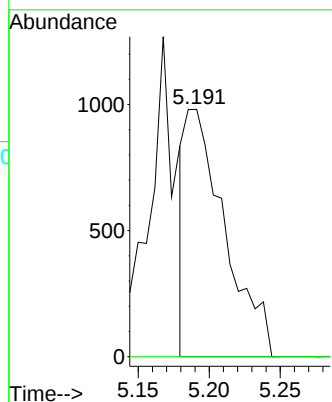
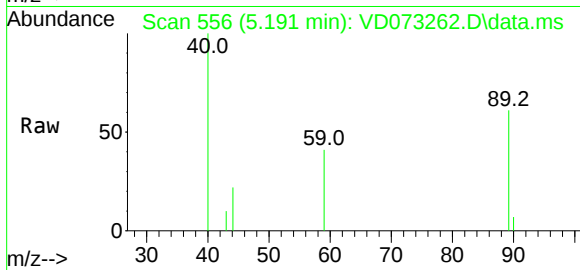




#11  
Tert butyl alcohol  
Concen: 3.285 ug/l  
RT: 5.191 min Scan# 51  
Delta R.T. -0.018 min  
Lab File: VD073262.D  
Acq: 22 May 2022 08:29

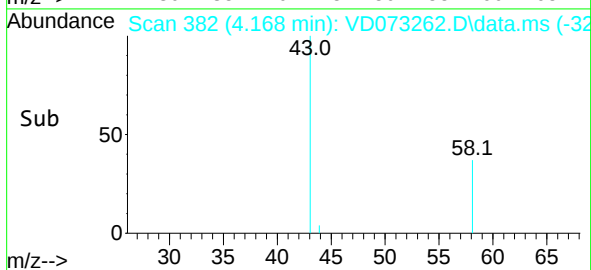
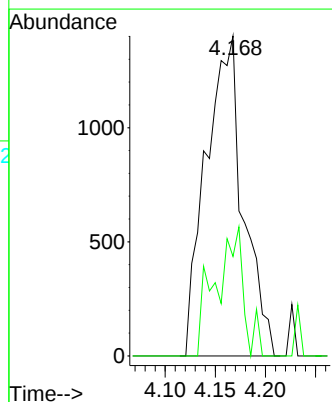
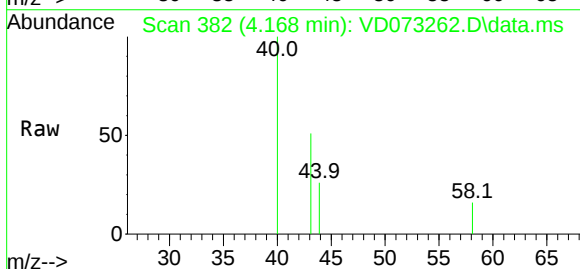
Instrument :  
MSVOA\_D  
ClientSampleId :  
P024-SS005-0006-01

Tgt Ion: 59 Resp: 1897  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.6#



#16  
Acetone  
Concen: 5.628 ug/l  
RT: 4.168 min Scan# 382  
Delta R.T. 0.012 min  
Lab File: VD073262.D  
Acq: 22 May 2022 08:29

Tgt Ion: 43 Resp: 3629  
Ion Ratio Lower Upper  
43 100  
58 31.1 22.1 33.1

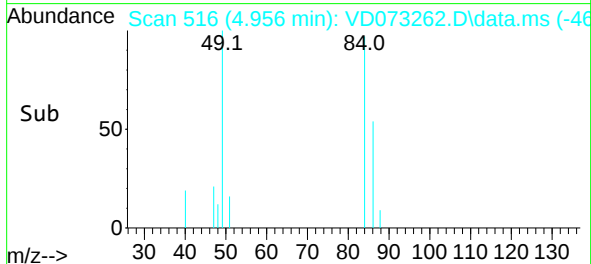
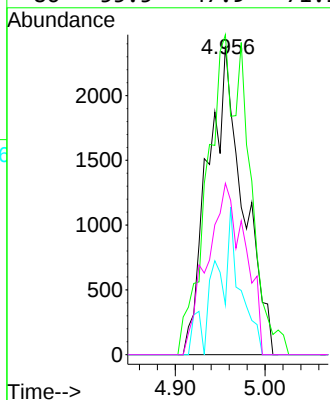
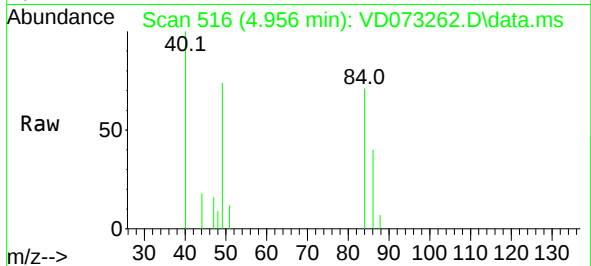




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.956 min Scan# 517  
Delta R.T. -0.006 min  
Lab File: VD073262.D  
Acq: 22 May 2022 08:29

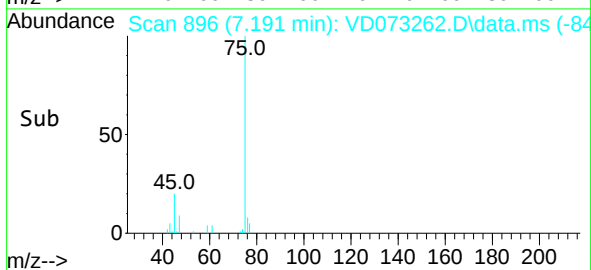
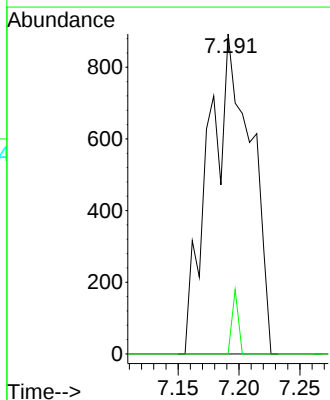
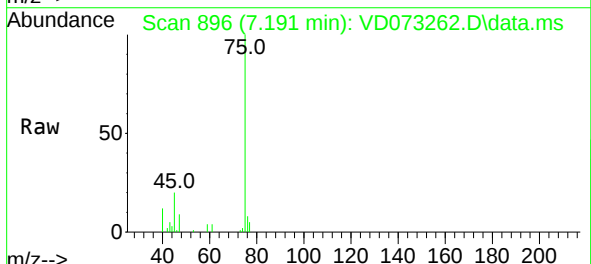
Instrument :  
MSVOA\_D  
ClientSampleId :  
P024-SS005-0006-01

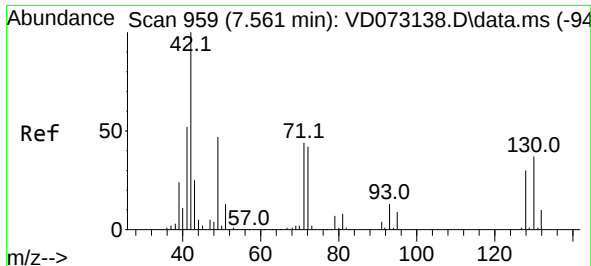
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 6508   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 103.6 | 112.8 | 169.2# |
| 51       | 16.1  | 32.6  | 48.8#  |
| 86       | 55.5  | 47.9  | 71.9   |



#25  
2-Butanone  
Concen: 2.285 ug/l  
RT: 7.191 min Scan# 896  
Delta R.T. -0.017 min  
Lab File: VD073262.D  
Acq: 22 May 2022 08:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2156  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 18.6  | 27.8# |





#29

Tetrahydrofuran

Concen: 1.021 ug/l

RT: 7.556 min Scan# 91

Delta R.T. -0.005 min

Lab File: VD073262.D

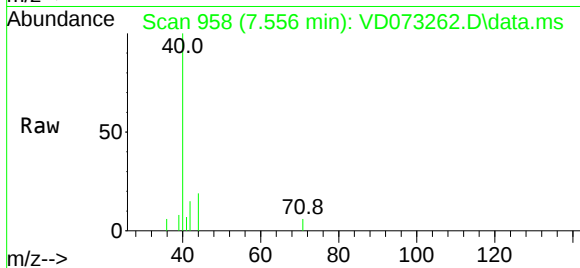
Acq: 22 May 2022 08:29

Instrument :

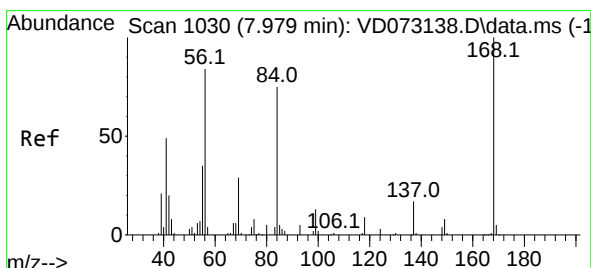
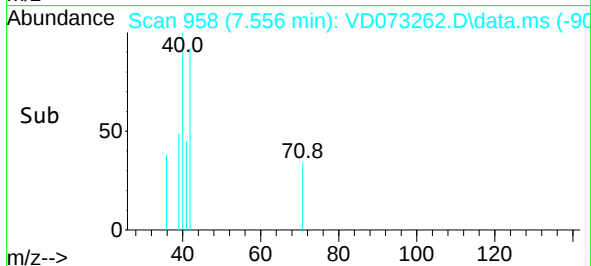
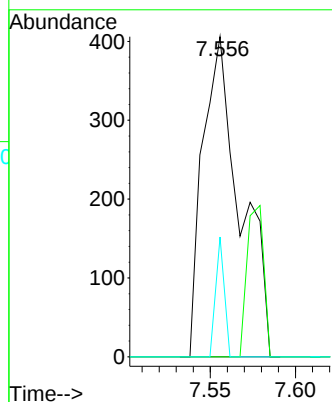
MSVOA\_D

ClientSampleId :

P024-SS005-0006-01



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 623   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 30.7  | 46.1# |
| 71       | 8.7   | 28.6  | 43.0# |



#31

Cyclohexane

Concen: 1.209 ug/l

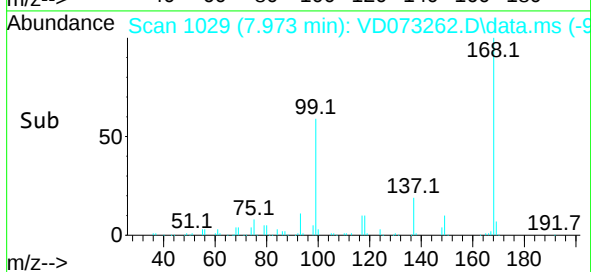
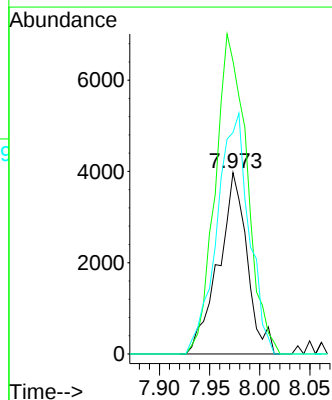
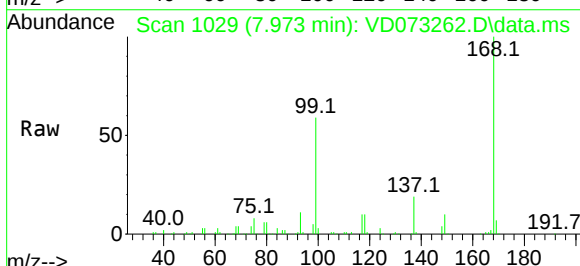
RT: 7.973 min Scan# 1029

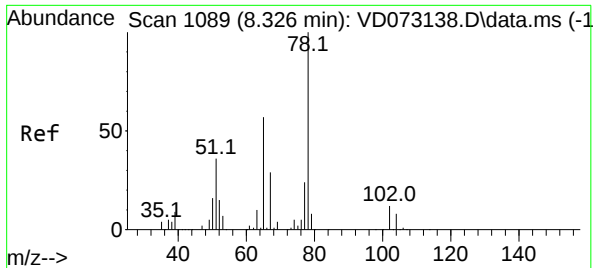
Delta R.T. -0.006 min

Lab File: VD073262.D

Acq: 22 May 2022 08:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 7868  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 161.5 | 25.4  | 38.2# |
| 84       | 122.1 | 63.0  | 94.4# |





#33

1,2-Dichloroethane-d4

Concen: 61.694 ug/l

RT: 8.320 min Scan# 1180

Delta R.T. -0.006 min

Lab File: VD073262.D

Acq: 22 May 2022 08:29

Instrument :

MSVOA\_D

ClientSampleId :

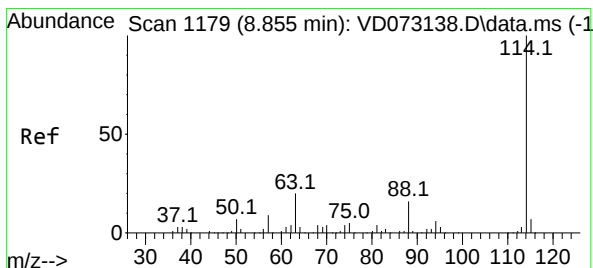
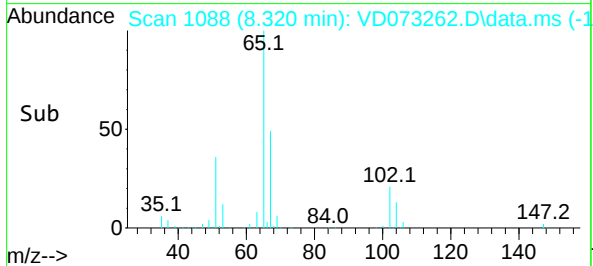
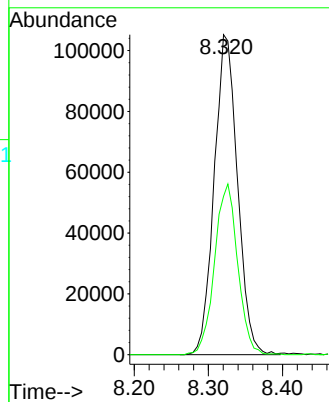
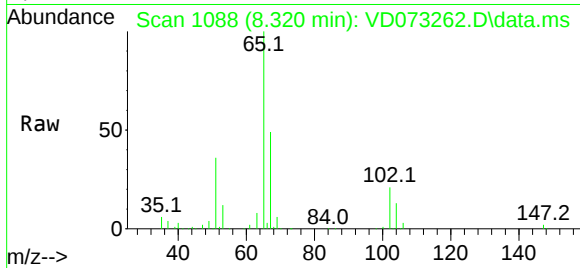
P024-SS005-0006-01

Tgt Ion: 65 Resp: 229659

Ion Ratio Lower Upper

65 100

67 53.0 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.006 min

Lab File: VD073262.D

Acq: 22 May 2022 08:29

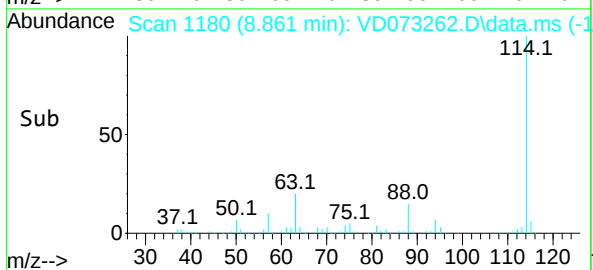
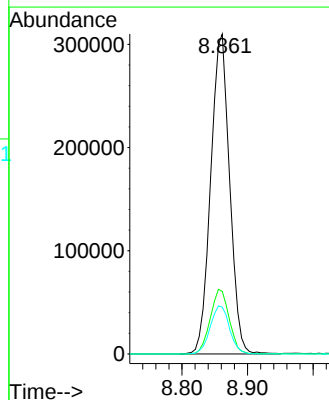
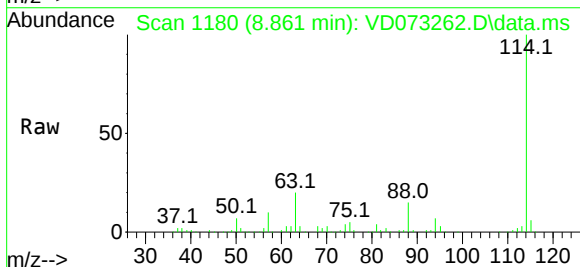
Tgt Ion: 114 Resp: 619807

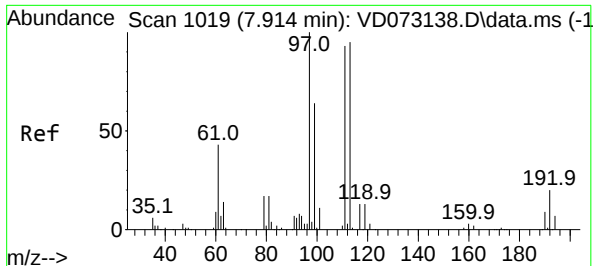
Ion Ratio Lower Upper

114 100

63 19.6 0.0 46.6

88 14.6 0.0 33.2





#35

Dibromofluoromethane

Concen: 53.496 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. -0.005 min

Lab File: VD073262.D

Acq: 22 May 2022 08:29

Instrument :

MSVOA\_D

ClientSampleId :

P024-SS005-0006-01

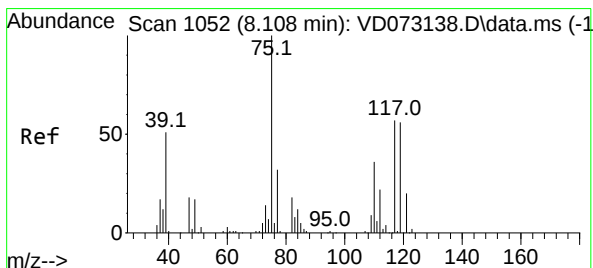
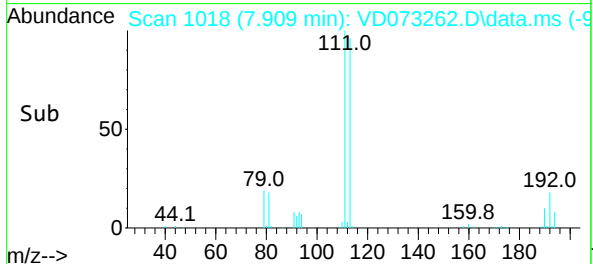
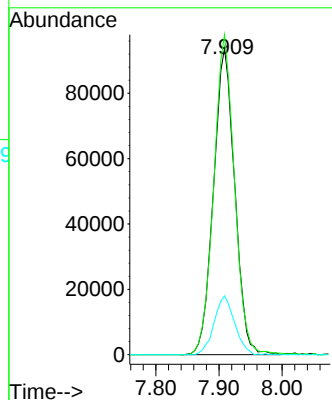
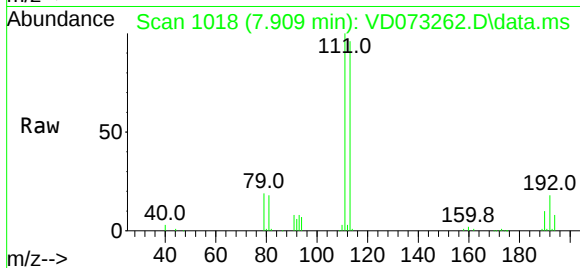
Tgt Ion:113 Resp: 218794

Ion Ratio Lower Upper

113 100

111 102.2 83.8 125.6

192 18.5 14.6 21.8



#36

1,1-Dichloropropene

Concen: 4.953 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.141 min

Lab File: VD073262.D

Acq: 22 May 2022 08:29

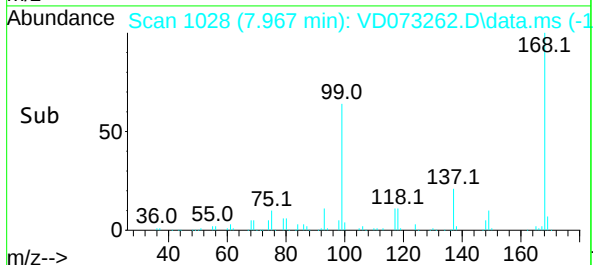
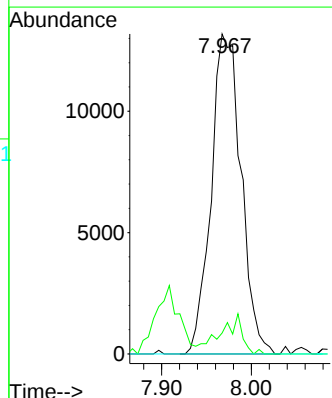
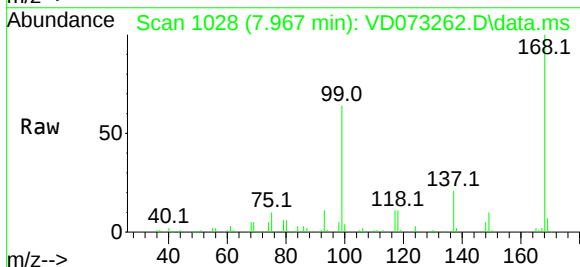
Tgt Ion: 75 Resp: 30466

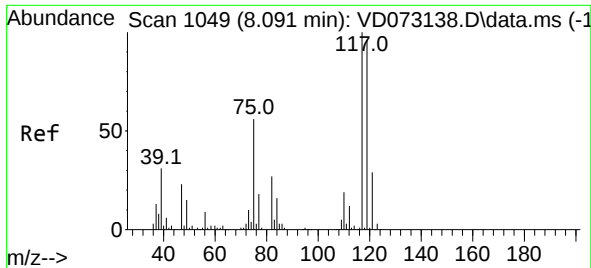
Ion Ratio Lower Upper

75 100

110 9.2 16.4 49.1#

77 0.0 24.2 36.2#

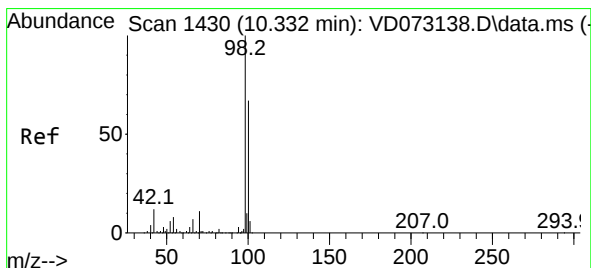
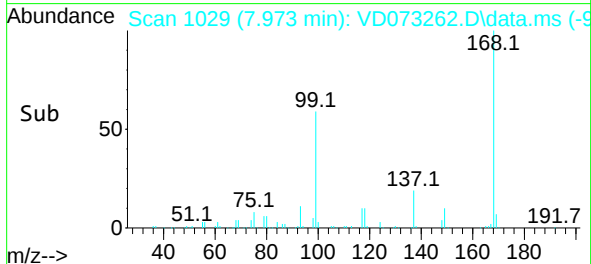
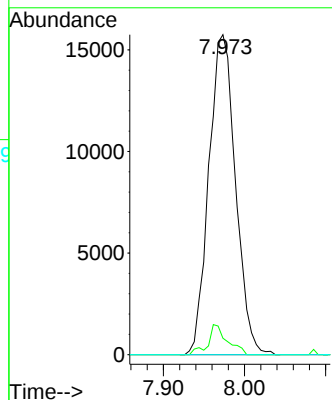
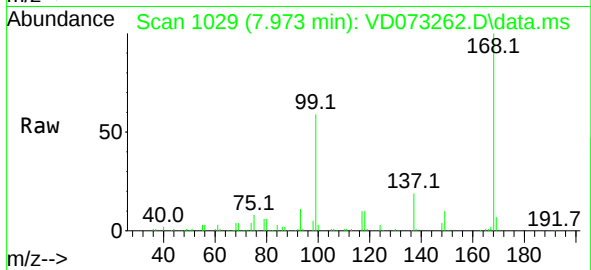




#38  
Carbon Tetrachloride  
Concen: 5.773 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.118 min  
Lab File: VD073262.D  
Acq: 22 May 2022 08:29

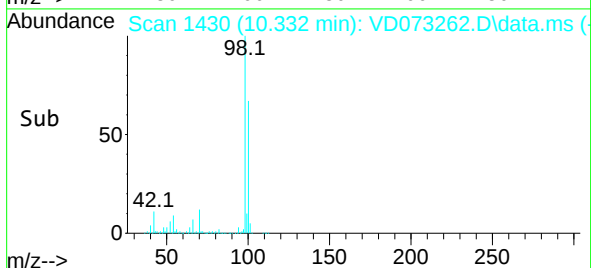
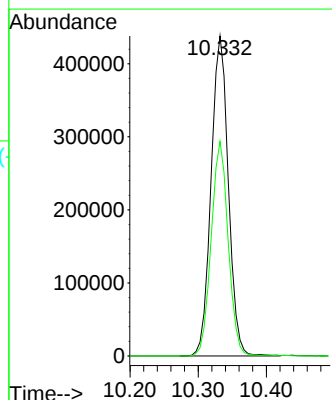
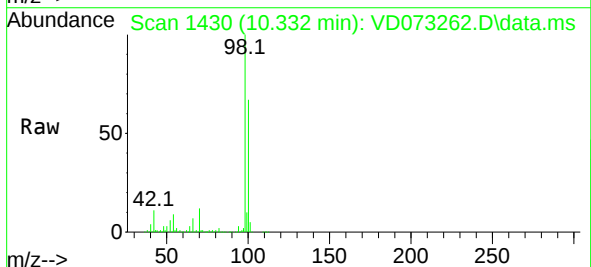
Instrument :  
MSVOA\_D  
ClientSampleId :  
P024-SS005-0006-01

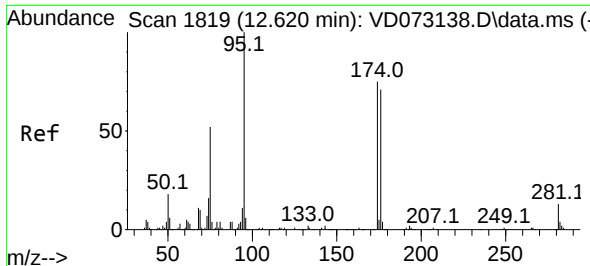
Tgt Ion:117 Resp: 35999  
Ion Ratio Lower Upper  
117 100  
119 5.1 75.8 113.6#  
121 0.0 24.5 36.7#



#50  
Toluene-d8  
Concen: 51.227 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. 0.000 min  
Lab File: VD073262.D  
Acq: 22 May 2022 08:29

Tgt Ion: 98 Resp: 772324  
Ion Ratio Lower Upper  
98 100  
100 66.0 52.4 78.6

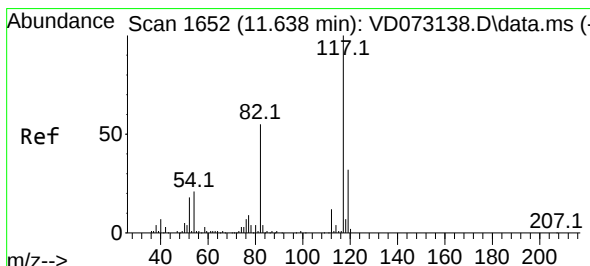
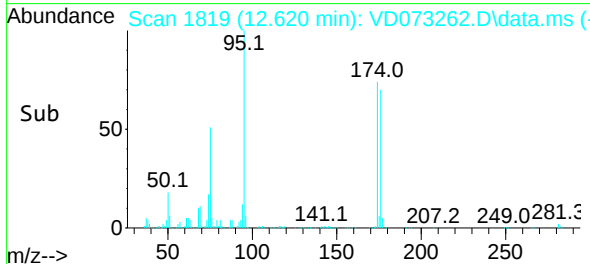
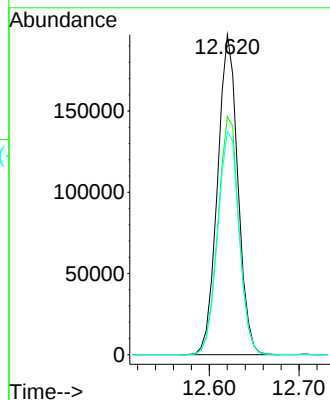
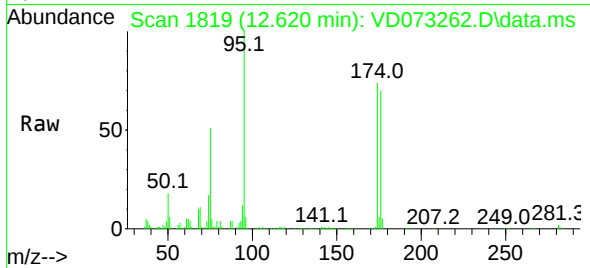




#62  
4-Bromofluorobenzene  
Concen: 58.632 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.000 min  
Lab File: VD073262.D  
Acq: 22 May 2022 08:29

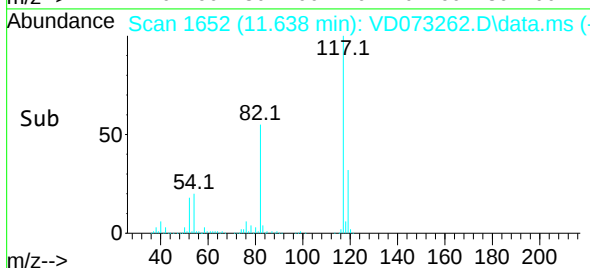
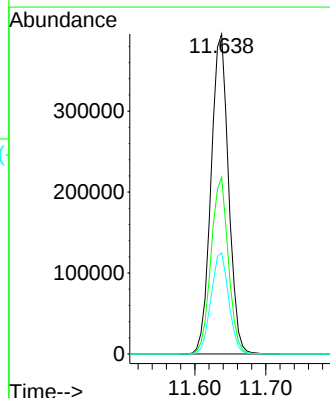
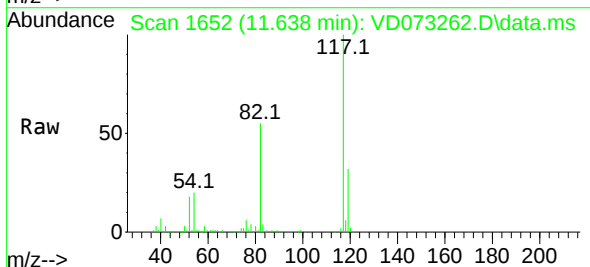
Instrument :  
MSVOA\_D  
ClientSampleId :  
P024-SS005-0006-01

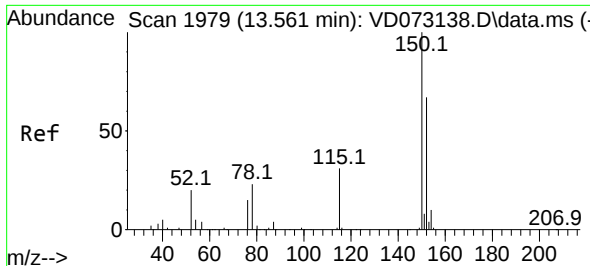
Tgt Ion: 95 Resp: 310218  
Ion Ratio Lower Upper  
95 100  
174 77.1 0.0 152.8  
176 73.5 0.0 145.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD073262.D  
Acq: 22 May 2022 08:29

Tgt Ion: 117 Resp: 676282  
Ion Ratio Lower Upper  
117 100  
82 55.3 45.3 67.9  
119 31.6 26.6 40.0

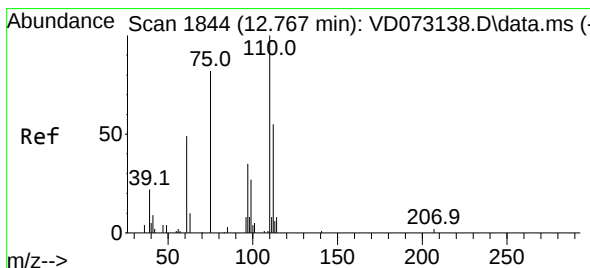
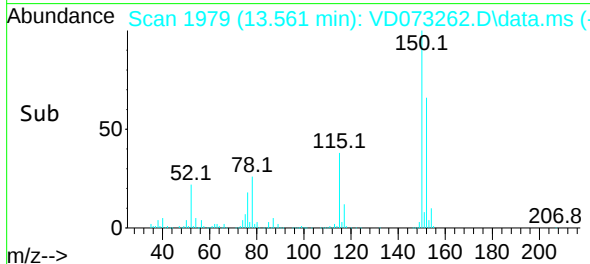
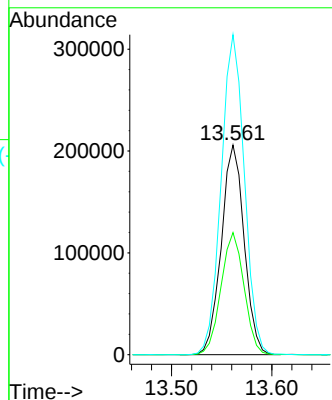
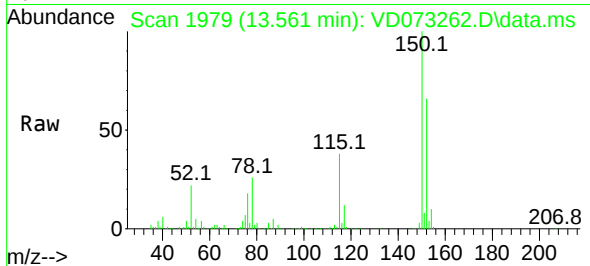




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.561 min Scan# 1979  
 Delta R.T. 0.000 min  
 Lab File: VD073262.D  
 Acq: 22 May 2022 08:29

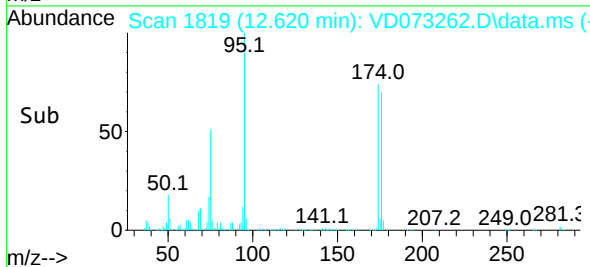
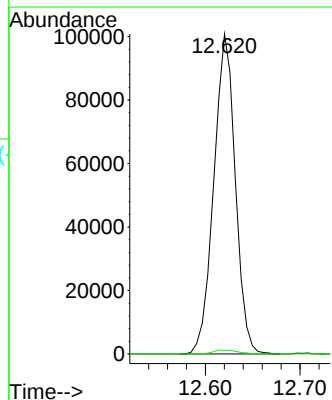
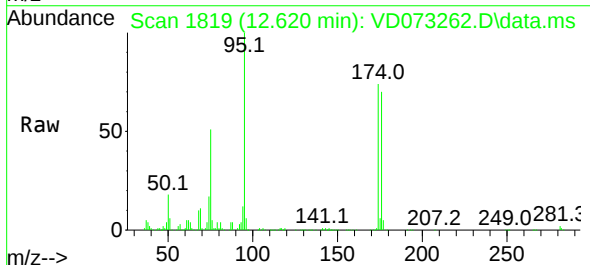
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P024-SS005-0006-01

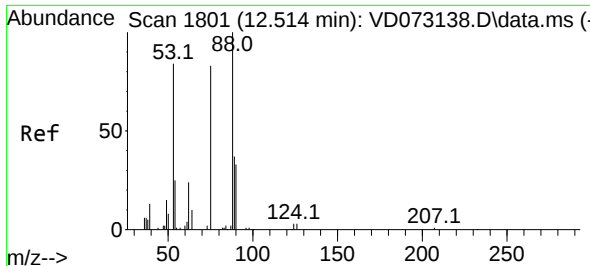
Tgt Ion:152 Resp: 325889  
 Ion Ratio Lower Upper  
 152 100  
 115 58.7 31.3 93.8  
 150 155.1 0.0 348.6



#76  
 1,2,3-Trichloropropane  
 Concen: 49.784 ug/l  
 RT: 12.620 min Scan# 1819  
 Delta R.T. -0.147 min  
 Lab File: VD073262.D  
 Acq: 22 May 2022 08:29

Tgt Ion: 75 Resp: 159187  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 0.0 0.0#

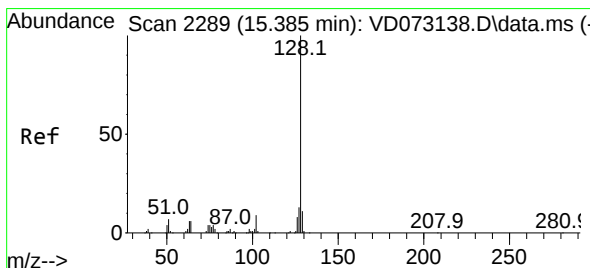
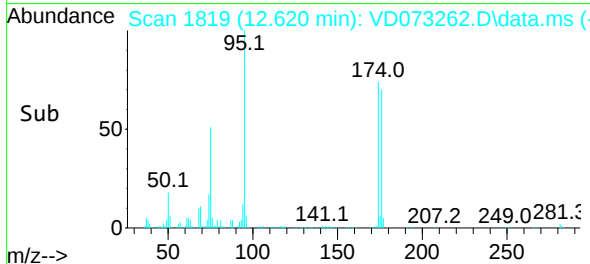
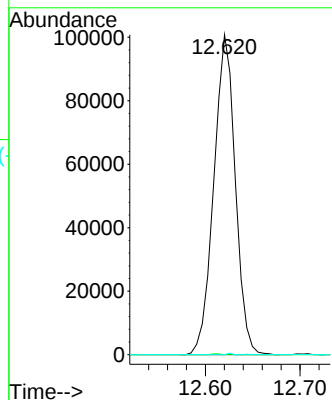
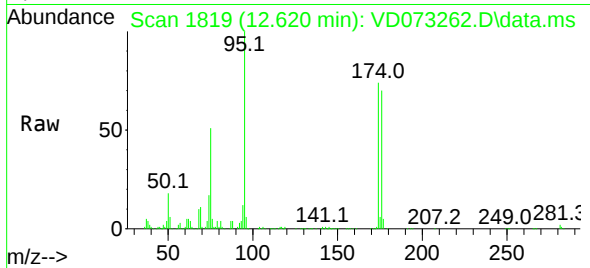




#81  
trans-1,4-Dichloro-2-butene  
Concen: 119.517 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.106 min  
Lab File: VD073262.D  
Acq: 22 May 2022 08:29

Instrument :  
MSVOA\_D  
ClientSampleId :  
P024-SS005-0006-01

Tgt Ion: 75 Resp: 159187  
Ion Ratio Lower Upper  
75 100  
53 0.2 86.5 129.7#  
89 0.1 33.9 50.9#



#95  
Naphthalene  
Concen: 3.553 ug/l  
RT: 15.391 min Scan# 2290  
Delta R.T. 0.006 min  
Lab File: VD073262.D  
Acq: 22 May 2022 08:29

Tgt Ion: 128 Resp: 129  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.4 12.6#

