

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022522\  
 Data File : VD072108.D  
 Acq On : 25 Feb 2022 18:55  
 Operator : VA/SY  
 Sample : VIBLK  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VIBLK

Quant Time: Feb 26 05:44:33 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021822S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 19 04:05:38 2022  
 Response via : Initial Calibration

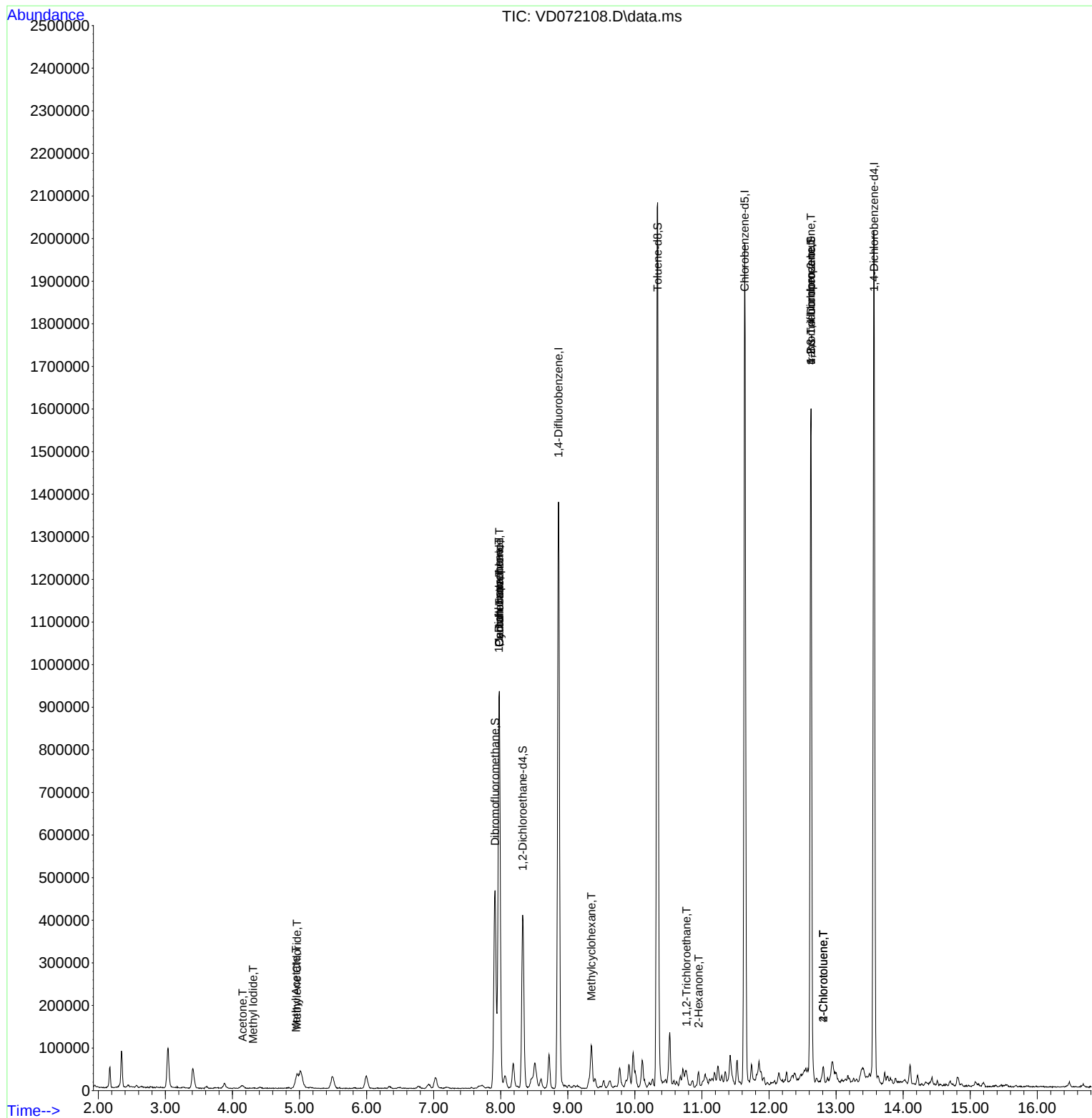
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.979  | 168   | 678984   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 1159189  | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 1123136  | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567 | 152   | 542552   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 322909   | 45.848    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 91.700%  |
| 35) Dibromofluoromethane      | 7.914  | 113   | 343123   | 48.856    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 97.720%  |
| 50) Toluene-d8                | 10.338 | 98    | 1436551  | 55.157    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 110.320% |
| 62) 4-Bromofluorobenzene      | 12.626 | 95    | 541116   | 56.561    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 113.120% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 2.785  | 94    | 1025     | Below Cal | #      | 54       |
| 10) Methyl Iodide             | 4.309  | 142   | 1351     | 3.089     | ug/l # | 60       |
| 16) Acetone                   | 4.150  | 43    | 7046     | 4.629     | ug/l # | 58       |
| 18) Methyl Acetate            | 4.950  | 43    | 9553     | 1.361     | ug/l # | 52       |
| 20) Methylene Chloride        | 4.962  | 84    | 16902    | 2.231     | ug/l   | 98       |
| 31) Cyclohexane               | 7.979  | 56    | 29250    | 2.351     | ug/l # | 48       |
| 36) 1,1-Dichloropropene       | 7.973  | 75    | 53304    | 5.010     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 7.979  | 117   | 70522    | 6.468     | ug/l # | 16       |
| 39) Methylcyclohexane         | 9.350  | 83    | 33774    | 2.712     | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.767 | 97    | 7987     | 1.343     | ug/l # | 23       |
| 59) 2-Hexanone                | 10.950 | 43    | 13765    | 4.145     | ug/l # | 26       |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75    | 273621   | 53.242    | ug/l # | 100      |
| 79) 2-Chlorotoluene           | 12.808 | 91    | 27584    | 1.041     | ug/l # | 41       |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75    | 273621   | 133.330   | ug/l # | 10       |
| 82) 4-Chlorotoluene           | 12.808 | 91    | 27584    | 1.000     | ug/l # | 41       |
| -----                         |        |       |          |           |        |          |

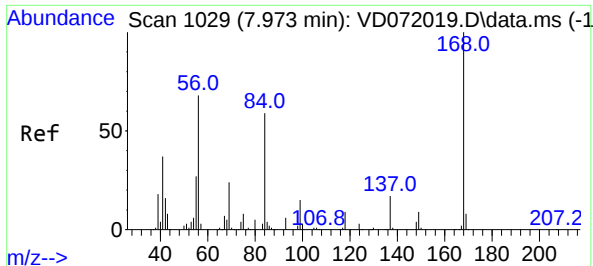
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
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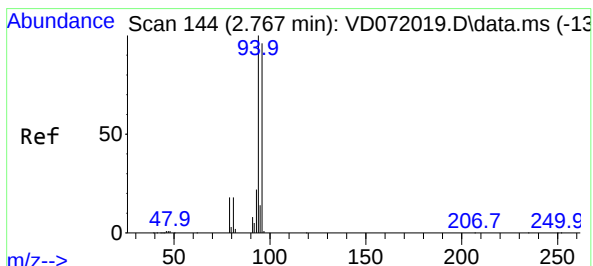
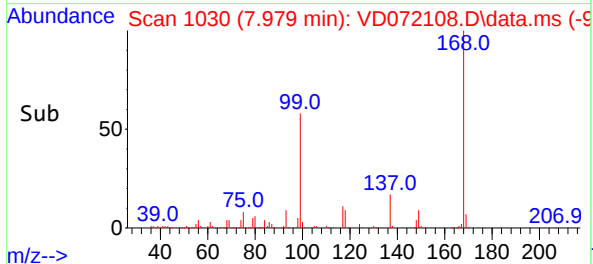
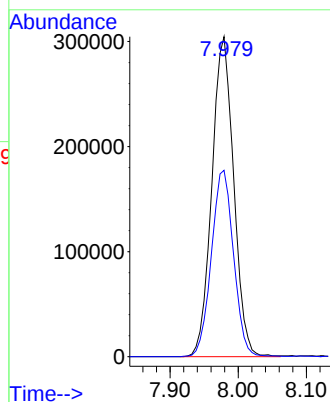
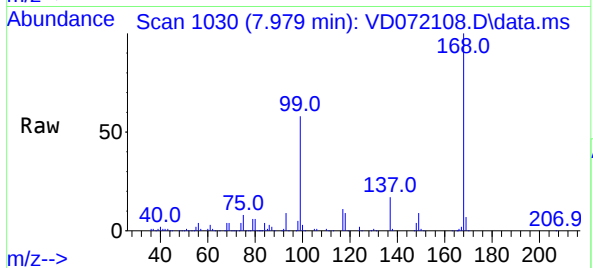




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VD072108.D  
Acq: 25 Feb 2022 18:55

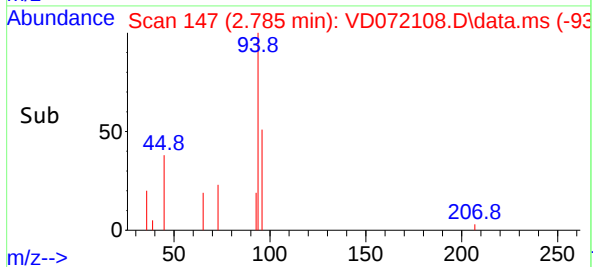
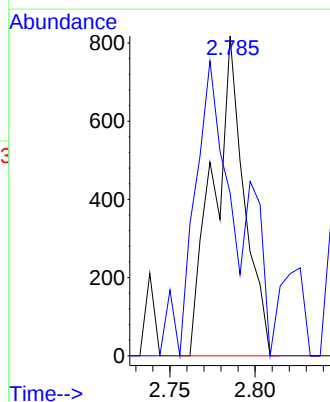
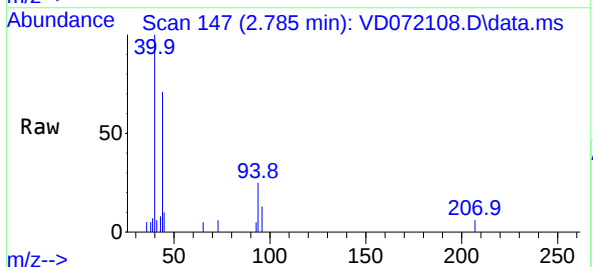
Instrument :  
MSVOA\_D  
ClientSampleId :  
VIBLK

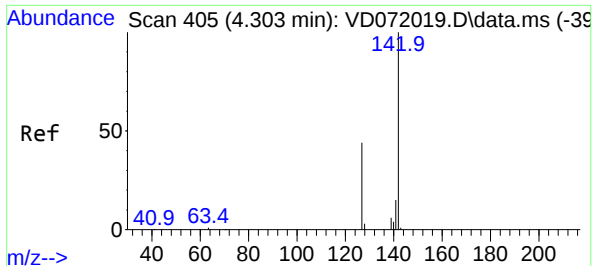
Tgt Ion:168 Resp: 678984  
Ion Ratio Lower Upper  
168 100  
99 58.2 47.1 70.7



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.785 min Scan# 147  
Delta R.T. 0.018 min  
Lab File: VD072108.D  
Acq: 25 Feb 2022 18:55

Tgt Ion: 94 Resp: 1025  
Ion Ratio Lower Upper  
94 100  
96 50.9 76.8 115.2#

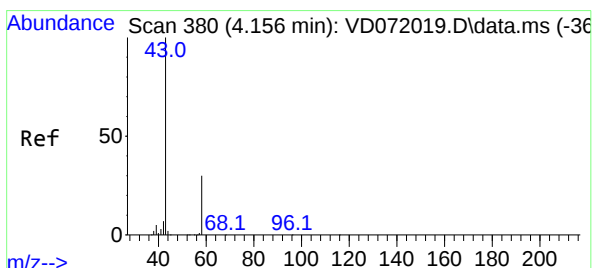
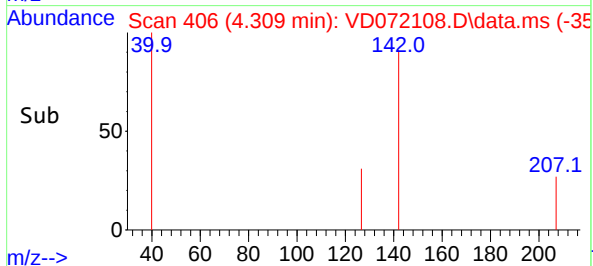
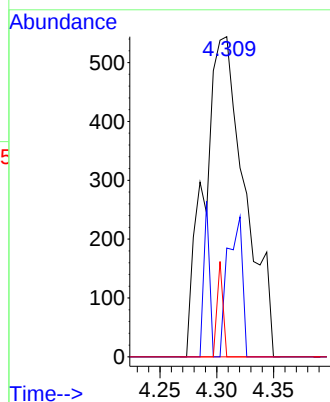
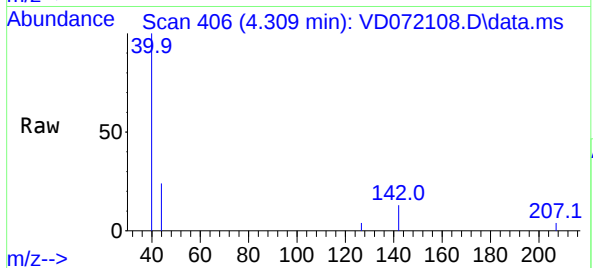




#10  
Methyl Iodide  
Concen: 3.089 ug/l  
RT: 4.309 min Scan# 405  
Delta R.T. 0.006 min  
Lab File: VD072108.D  
Acq: 25 Feb 2022 18:55

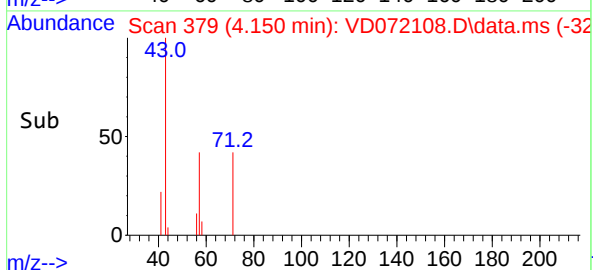
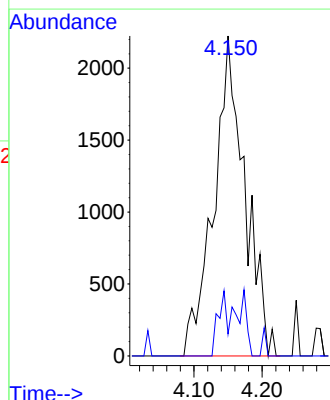
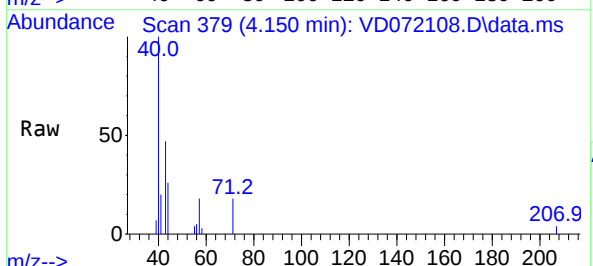
Instrument :  
MSVOA\_D  
ClientSampleId :  
VIBLK

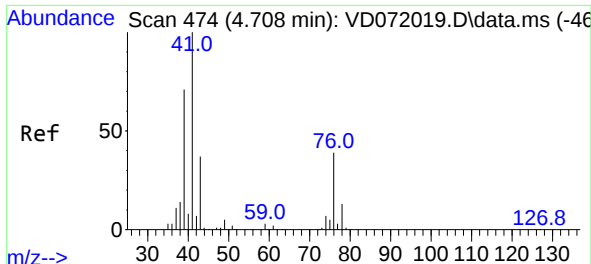
Tgt Ion:142 Resp: 1351  
Ion Ratio Lower Upper  
142 100  
127 15.8 35.8 53.8#  
141 4.2 11.6 17.4#



#16  
Acetone  
Concen: 4.629 ug/l  
RT: 4.150 min Scan# 379  
Delta R.T. -0.006 min  
Lab File: VD072108.D  
Acq: 25 Feb 2022 18:55

Tgt Ion: 43 Resp: 7046  
Ion Ratio Lower Upper  
43 100  
58 6.8 23.8 35.6#





#18

Methyl Acetate

Concen: 1.361 ug/l

RT: 4.950 min Scan# 515

Delta R.T. 0.242 min

Lab File: VD072108.D

Acq: 25 Feb 2022 18:55

Instrument :

MSVOA\_D

ClientSampleId :

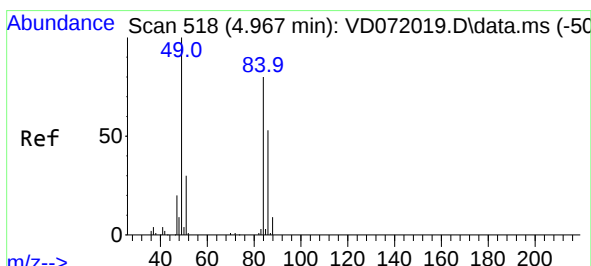
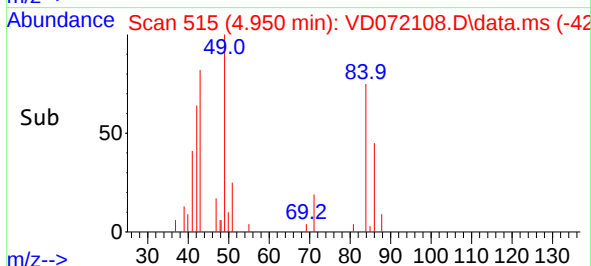
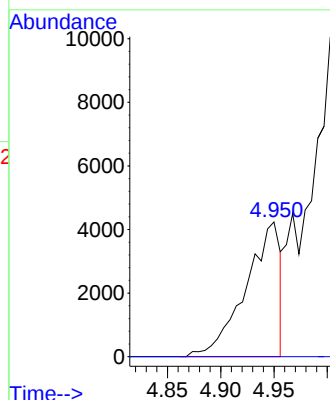
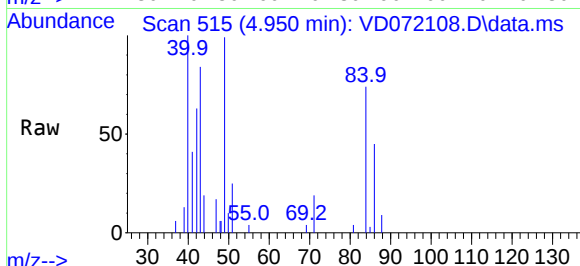
VIBLK

Tgt Ion: 43 Resp: 9553

Ion Ratio Lower Upper

43 100

74 0.0 18.6 27.8#



#20

Methylene Chloride

Concen: 2.231 ug/l

RT: 4.962 min Scan# 517

Delta R.T. -0.006 min

Lab File: VD072108.D

Acq: 25 Feb 2022 18:55

Tgt Ion: 84 Resp: 16902

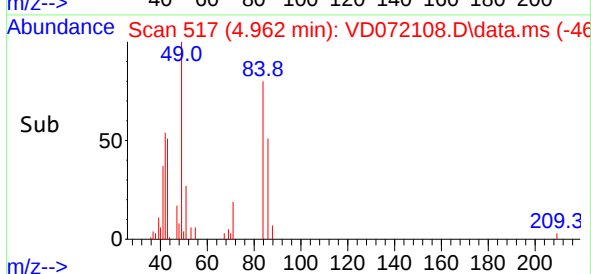
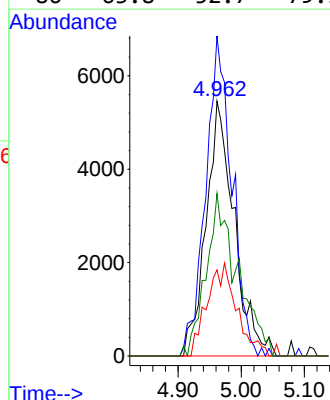
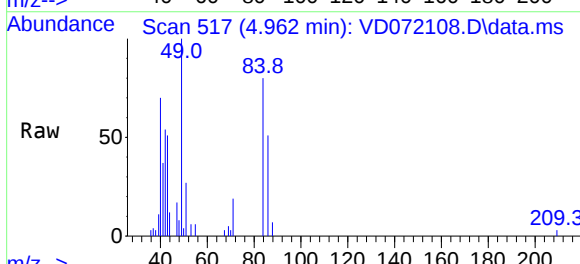
Ion Ratio Lower Upper

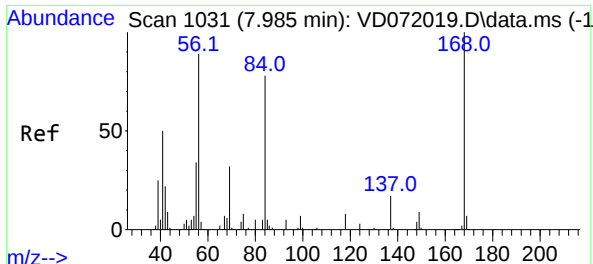
84 100

49 125.7 100.0 150.0

51 33.8 30.2 45.4

86 63.8 52.7 79.1

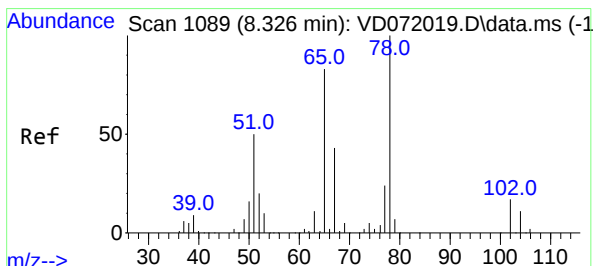
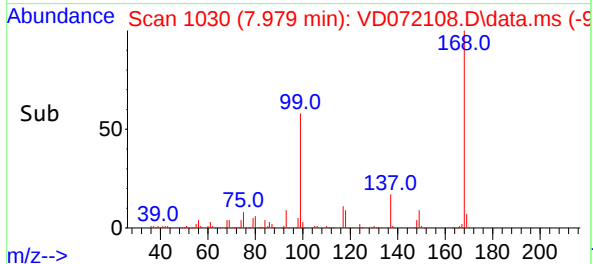
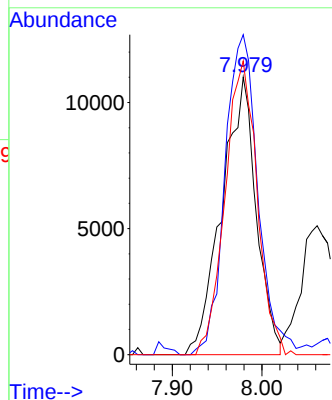
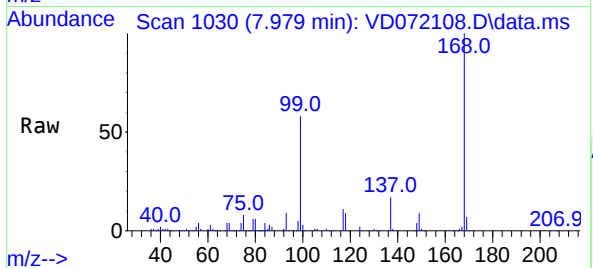




#31  
Cyclohexane  
Concen: 2.351 ug/l  
RT: 7.979 min Scan# 1031  
Delta R.T. -0.006 min  
Lab File: VD072108.D  
Acq: 25 Feb 2022 18:55

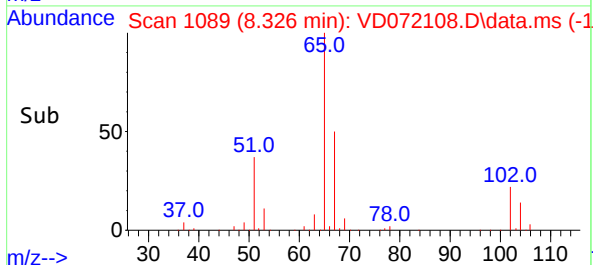
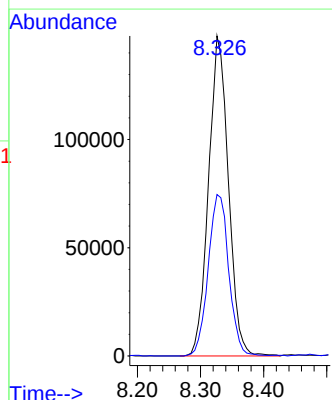
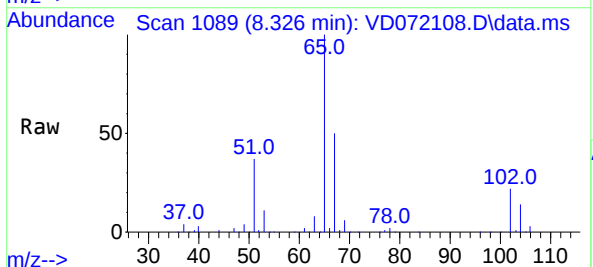
Instrument :  
MSVOA\_D  
ClientSampleId :  
VIBLK

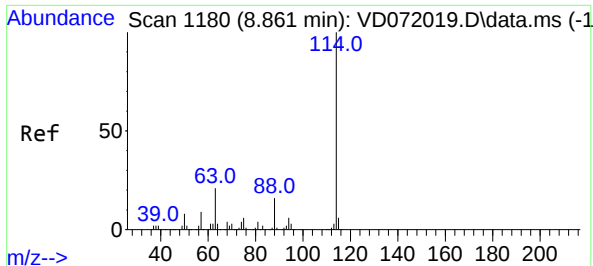
Tgt Ion: 56 Resp: 29250  
Ion Ratio Lower Upper  
56 100  
69 115.3 28.9 43.3#  
84 105.8 70.6 105.8



#33  
1,2-Dichloroethane-d4  
Concen: 45.848 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD072108.D  
Acq: 25 Feb 2022 18:55

Tgt Ion: 65 Resp: 322909  
Ion Ratio Lower Upper  
65 100  
67 52.3 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD072108.D

Acq: 25 Feb 2022 18:55

Instrument :

MSVOA\_D

ClientSampleId :

VIBLK

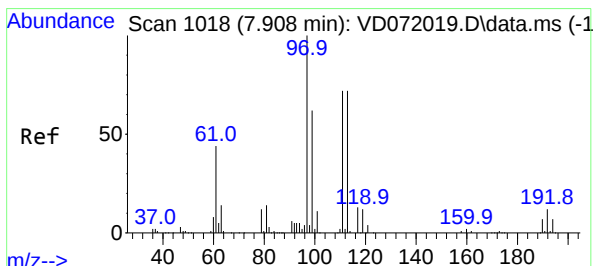
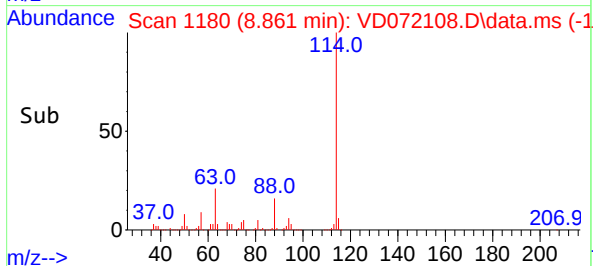
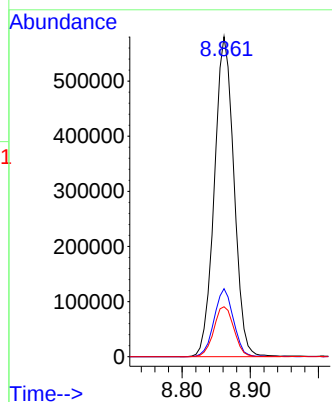
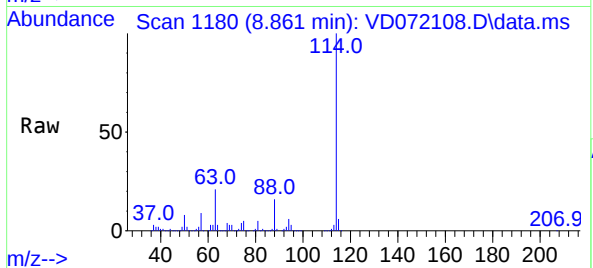
Tgt Ion:114 Resp: 1159189

Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.2

88 15.6 0.0 31.2



#35

Dibromofluoromethane

Concen: 48.856 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. 0.006 min

Lab File: VD072108.D

Acq: 25 Feb 2022 18:55

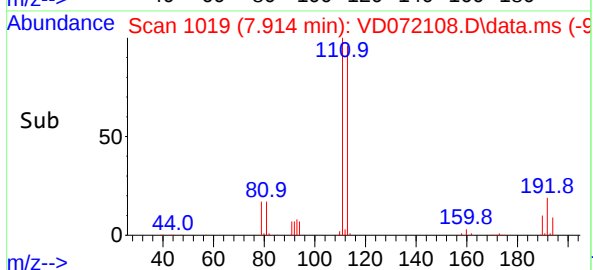
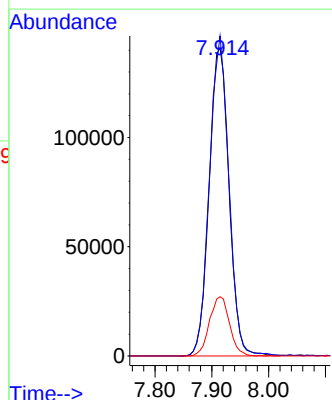
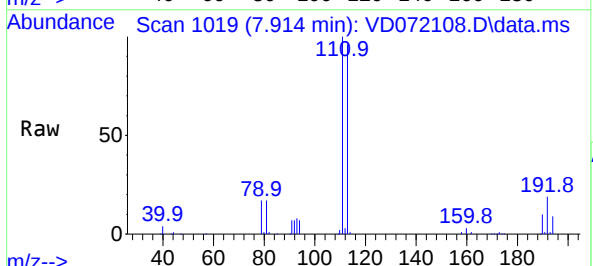
Tgt Ion:113 Resp: 343123

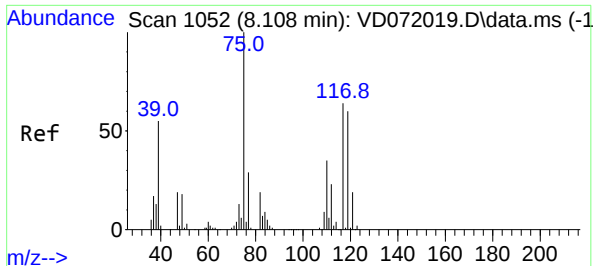
Ion Ratio Lower Upper

113 100

111 101.3 83.0 124.4

192 19.3 15.3 22.9





#36

1,1-Dichloropropene

Concen: 5.010 ug/l

RT: 7.973 min Scan# 1

Delta R.T. -0.135 min

Lab File: VD072108.D

Acq: 25 Feb 2022 18:55

Instrument :

MSVOA\_D

ClientSampleId :

VIBLK

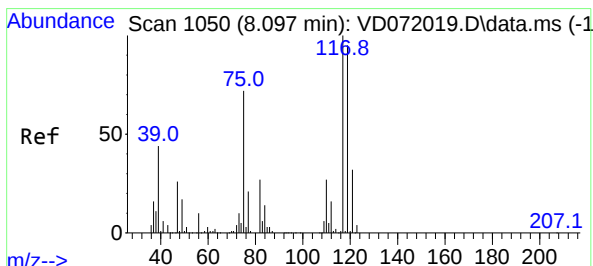
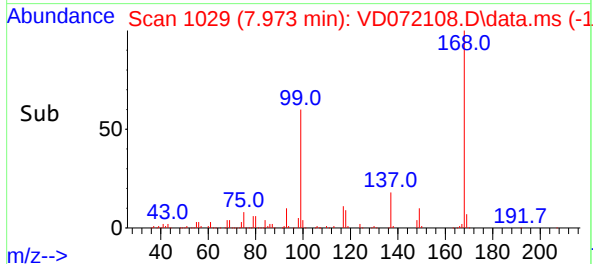
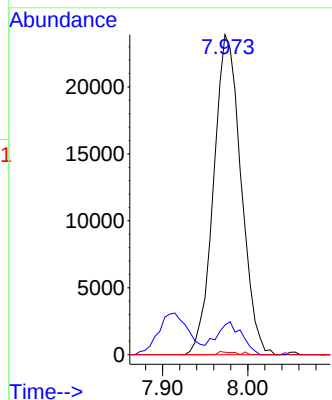
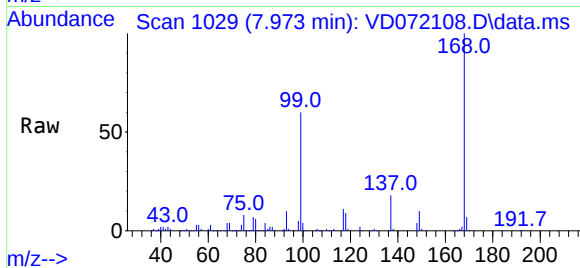
Tgt Ion: 75 Resp: 53304

Ion Ratio Lower Upper

75 100

110 9.5 17.7 53.1#

77 0.5 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.468 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.117 min

Lab File: VD072108.D

Acq: 25 Feb 2022 18:55

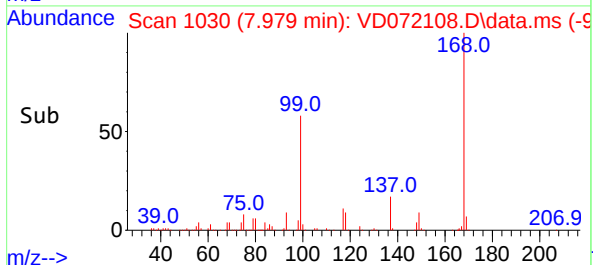
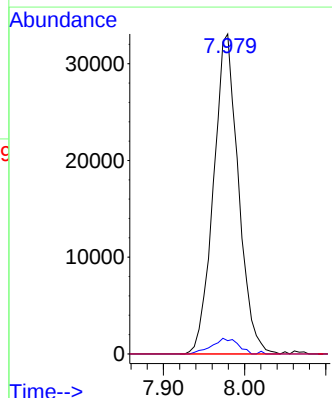
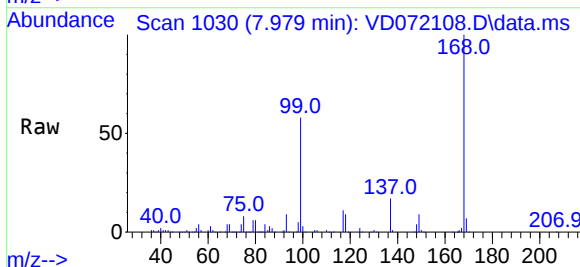
Tgt Ion: 117 Resp: 70522

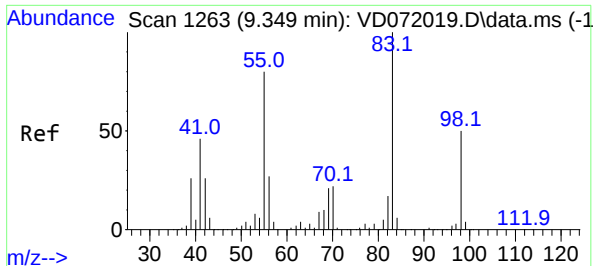
Ion Ratio Lower Upper

117 100

119 4.1 75.8 113.8#

121 0.0 25.8 38.6#

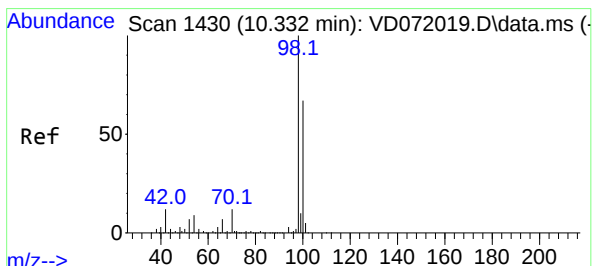
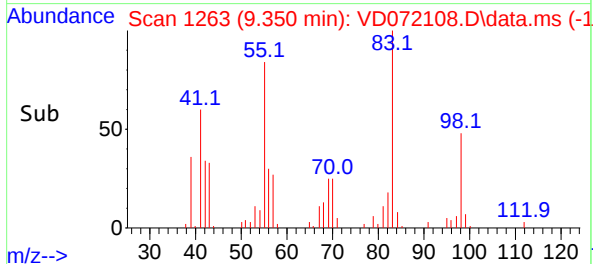
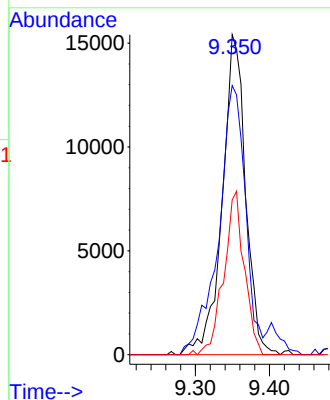
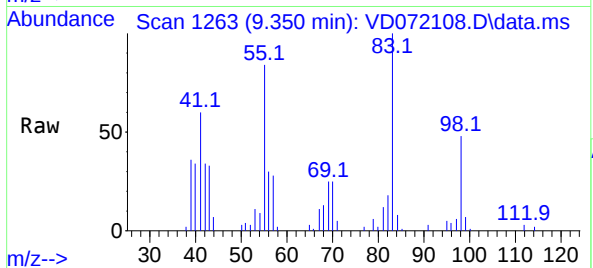




#39  
Methylcyclohexane  
Concen: 2.712 ug/l  
RT: 9.350 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD072108.D  
Acq: 25 Feb 2022 18:55

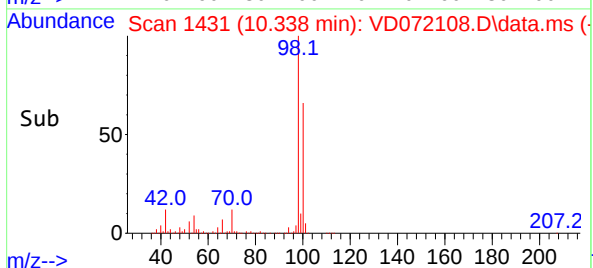
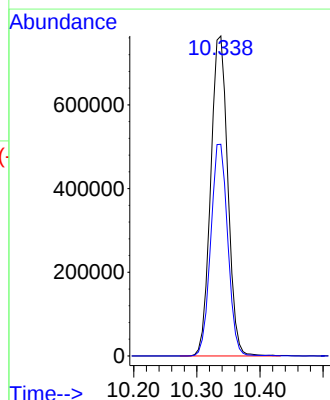
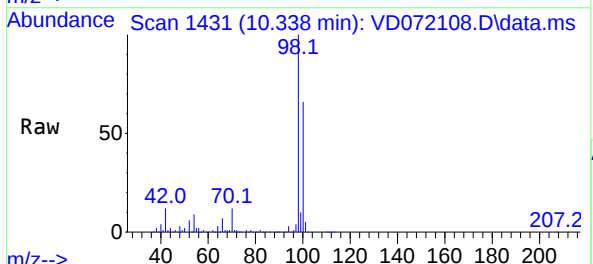
Instrument :  
MSVOA\_D  
ClientSampleId :  
VIBLK

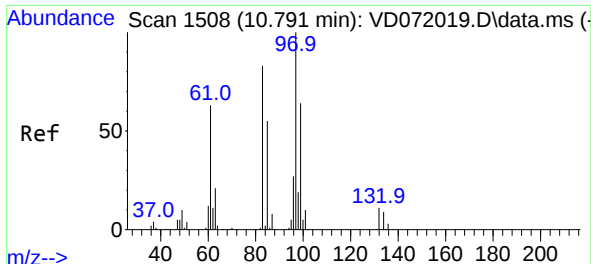
Tgt Ion: 83 Resp: 33774  
Ion Ratio Lower Upper  
83 100  
55 84.1 64.0 96.0  
98 48.4 39.8 59.8



#50  
Toluene-d8  
Concen: 55.157 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. 0.006 min  
Lab File: VD072108.D  
Acq: 25 Feb 2022 18:55

Tgt Ion: 98 Resp: 1436551  
Ion Ratio Lower Upper  
98 100  
100 65.7 53.8 80.6

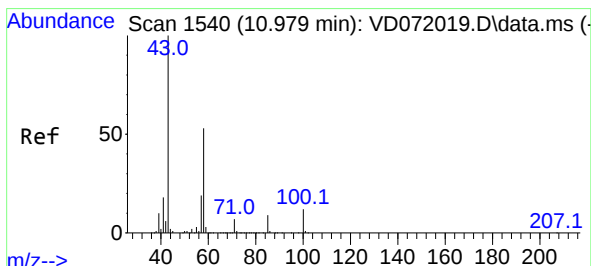
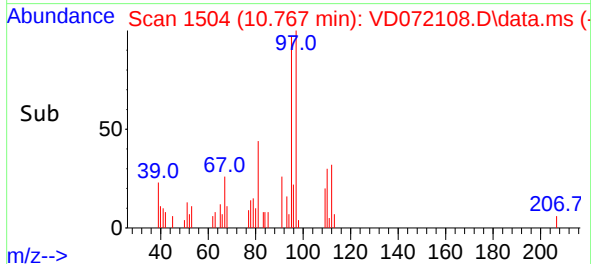
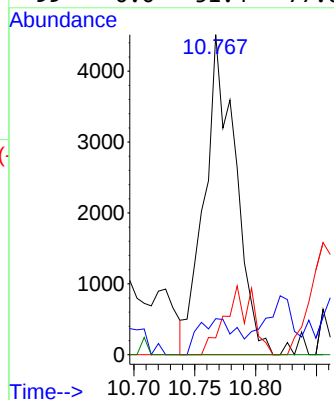
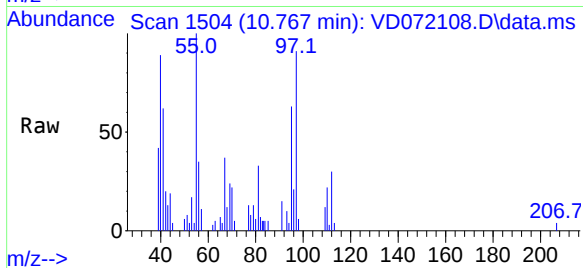




#55  
1,1,2-Trichloroethane  
Concen: 1.343 ug/l  
RT: 10.767 min Scan# 11  
Delta R.T. -0.023 min  
Lab File: VD072108.D  
Acq: 25 Feb 2022 18:55

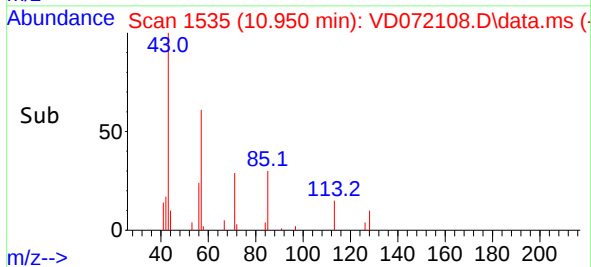
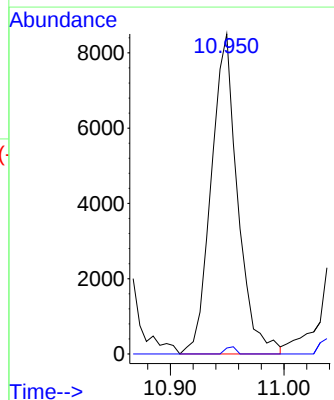
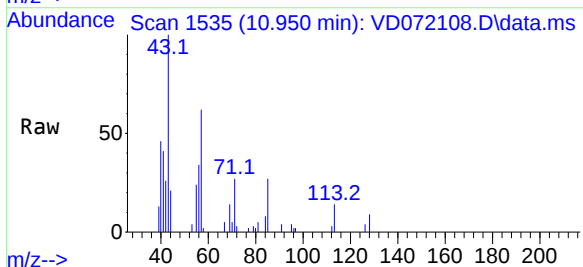
Instrument :  
MSVOA\_D  
ClientSampleId :  
VIBLK

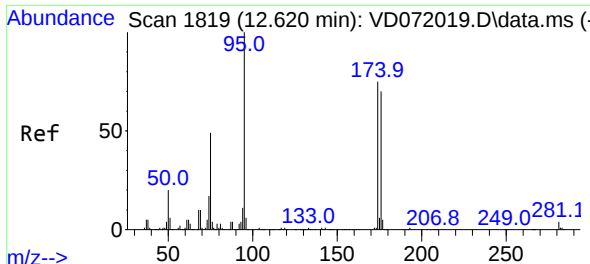
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 7987  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 11.3  | 66.2  | 99.4# |
| 85       | 5.2   | 43.7  | 65.5# |
| 99       | 0.0   | 51.4  | 77.0# |



#59  
2-Hexanone  
Concen: 4.145 ug/l  
RT: 10.950 min Scan# 1535  
Delta R.T. -0.029 min  
Lab File: VD072108.D  
Acq: 25 Feb 2022 18:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 13765 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 0.9   | 27.0  | 80.8# |

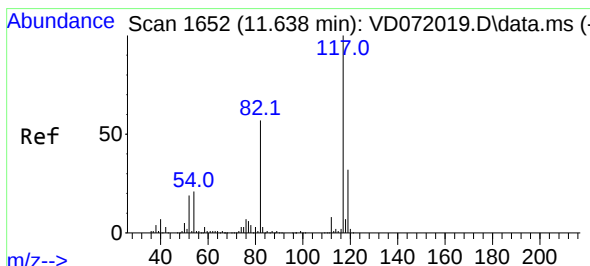
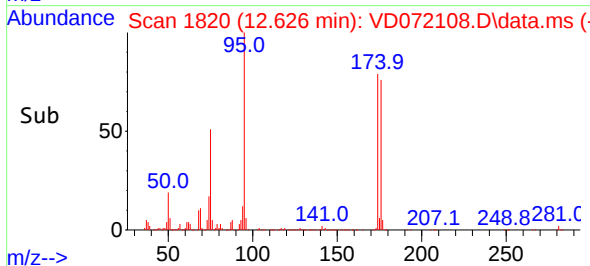
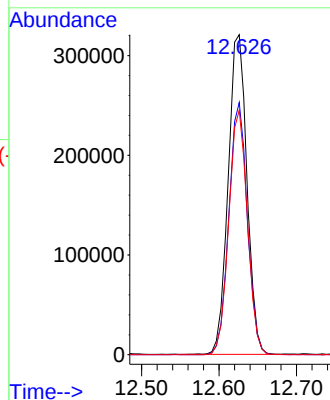
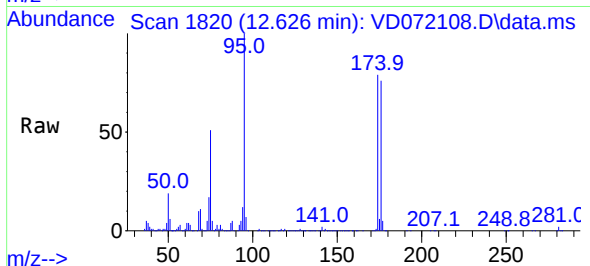




#62  
4-Bromofluorobenzene  
Concen: 56.561 ug/l  
RT: 12.626 min Scan# 1819  
Delta R.T. 0.006 min  
Lab File: VD072108.D  
Acq: 25 Feb 2022 18:55

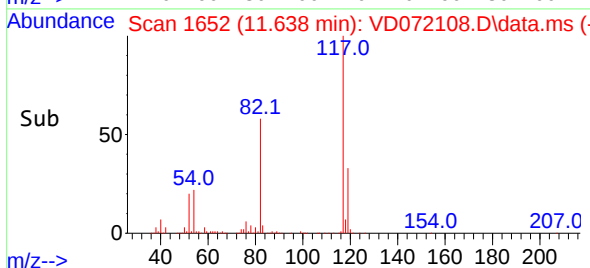
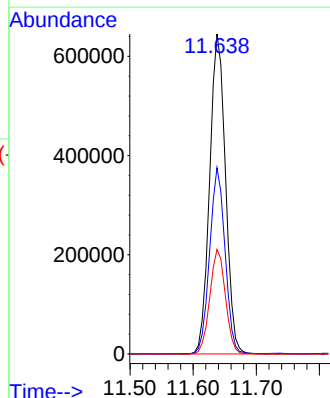
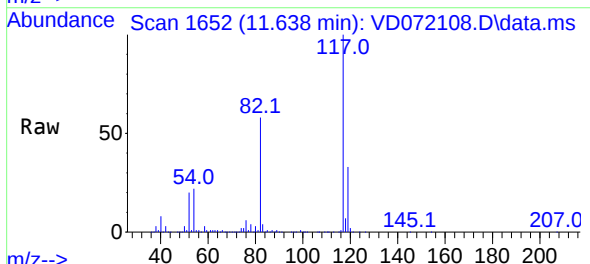
Instrument :  
MSVOA\_D  
ClientSampleId :  
VIBLK

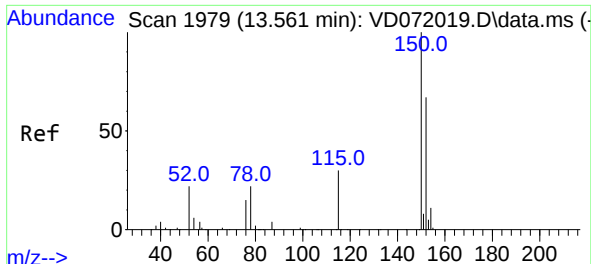
Tgt Ion: 95 Resp: 541116  
Ion Ratio Lower Upper  
95 100  
174 77.6 0.0 155.0  
176 75.4 0.0 148.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD072108.D  
Acq: 25 Feb 2022 18:55

Tgt Ion: 117 Resp: 1123136  
Ion Ratio Lower Upper  
117 100  
82 58.1 45.4 68.0  
119 32.7 25.4 38.2

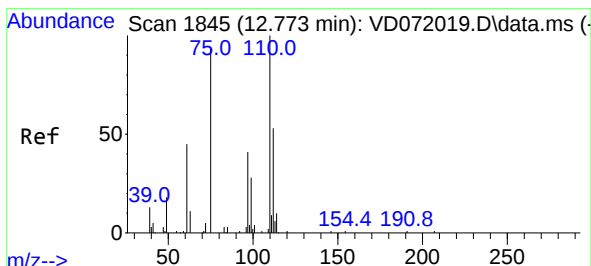
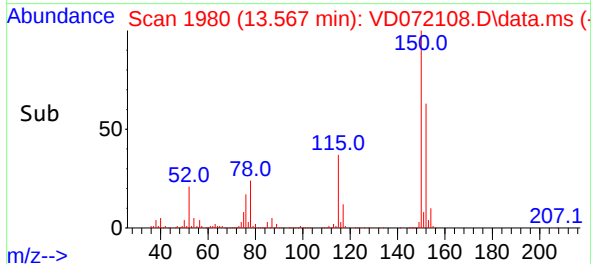
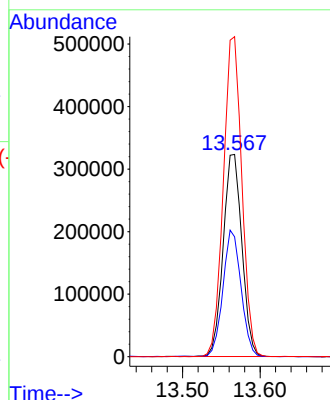
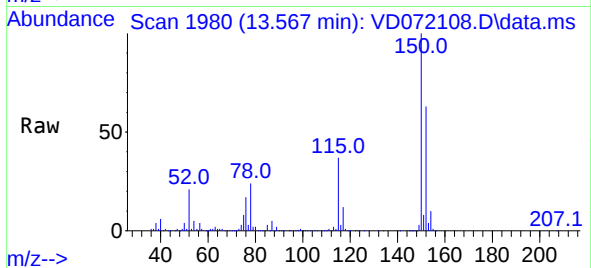




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1979  
Delta R.T. 0.006 min  
Lab File: VD072108.D  
Acq: 25 Feb 2022 18:55

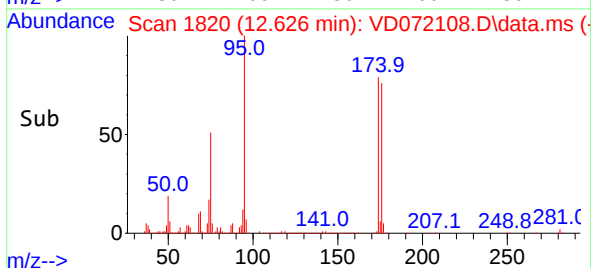
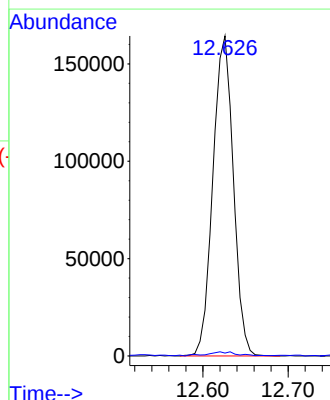
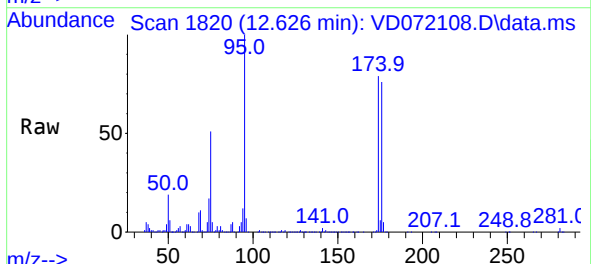
Instrument :  
MSVOA\_D  
ClientSampleId :  
VIBLK

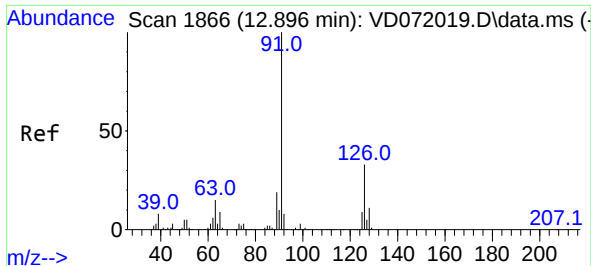
Tgt Ion:152 Resp: 542552  
Ion Ratio Lower Upper  
152 100  
115 60.6 29.9 89.7  
150 156.5 0.0 347.6



#76  
1,2,3-Trichloropropane  
Concen: 53.242 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD072108.D  
Acq: 25 Feb 2022 18:55

Tgt Ion: 75 Resp: 273621  
Ion Ratio Lower Upper  
75 100  
77 1.2 0.0 0.0#

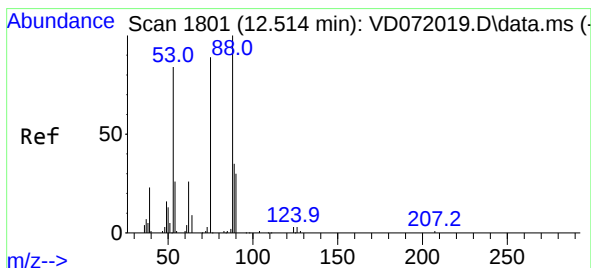
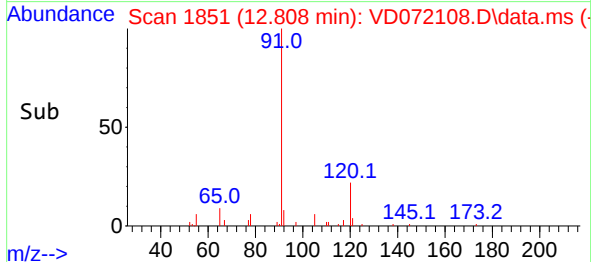
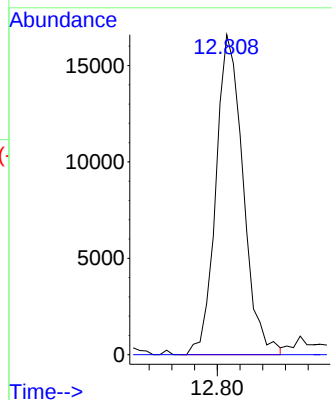
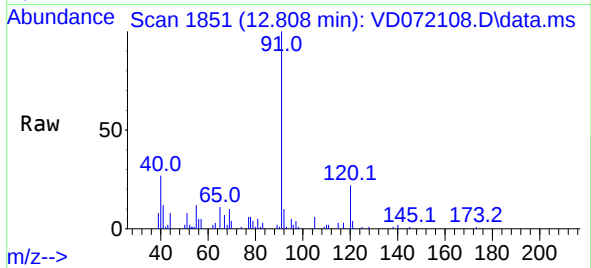




#79  
2-Chlorotoluene  
Concen: 1.041 ug/l  
RT: 12.808 min Scan# 1851  
Delta R.T. -0.088 min  
Lab File: VD072108.D  
Acq: 25 Feb 2022 18:55

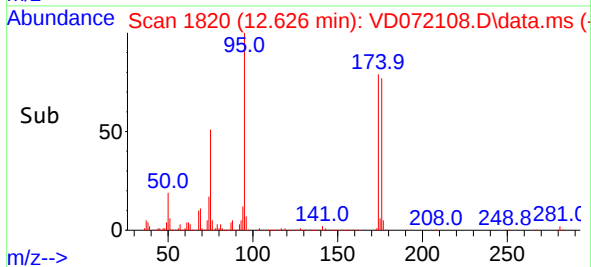
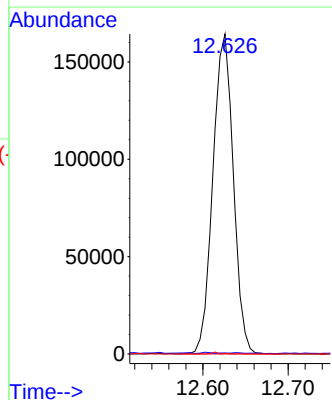
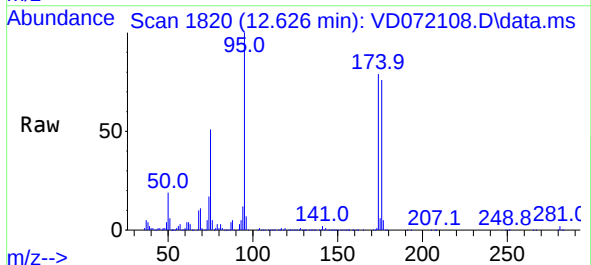
Instrument :  
MSVOA\_D  
ClientSampleId :  
VIBLK

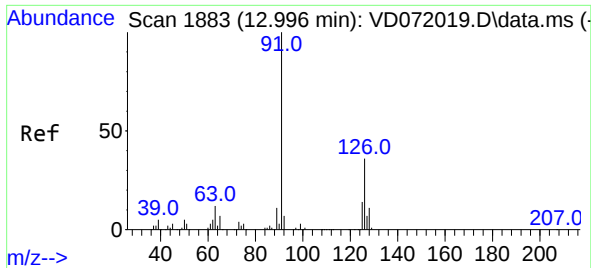
Tgt Ion: 91 Resp: 27584  
Ion Ratio Lower Upper  
91 100  
126 0.0 16.8 50.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 133.330 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.112 min  
Lab File: VD072108.D  
Acq: 25 Feb 2022 18:55

Tgt Ion: 75 Resp: 273621  
Ion Ratio Lower Upper  
75 100  
53 0.4 80.2 120.4#  
89 0.0 36.4 54.6#





#82

4-Chlorotoluene

Concen: 1.000 ug/l

RT: 12.808 min Scan# 11

Delta R.T. -0.188 min

Lab File: VD072108.D

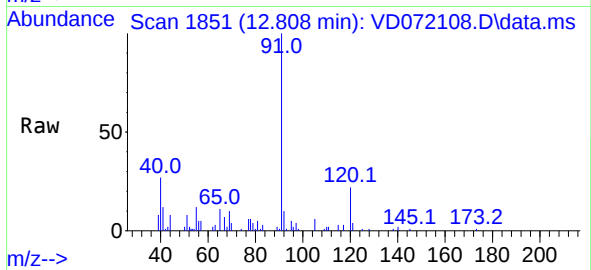
Acq: 25 Feb 2022 18:55

Instrument :

MSVOA\_D

ClientSampleId :

VIBLK



Tgt Ion: 91 Resp: 27584

Ion Ratio Lower Upper

91 100

126 0.0 16.9 50.6#

