

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061522\  
 Data File : VD073589.D  
 Acq On : 15 Jun 2022 14:06  
 Operator : VA/SY  
 Sample : N3293-03RE  
 Misc : 5.03G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jun 16 06:03:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D060922S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 09 12:33:32 2022  
 Response via : Initial Calibration

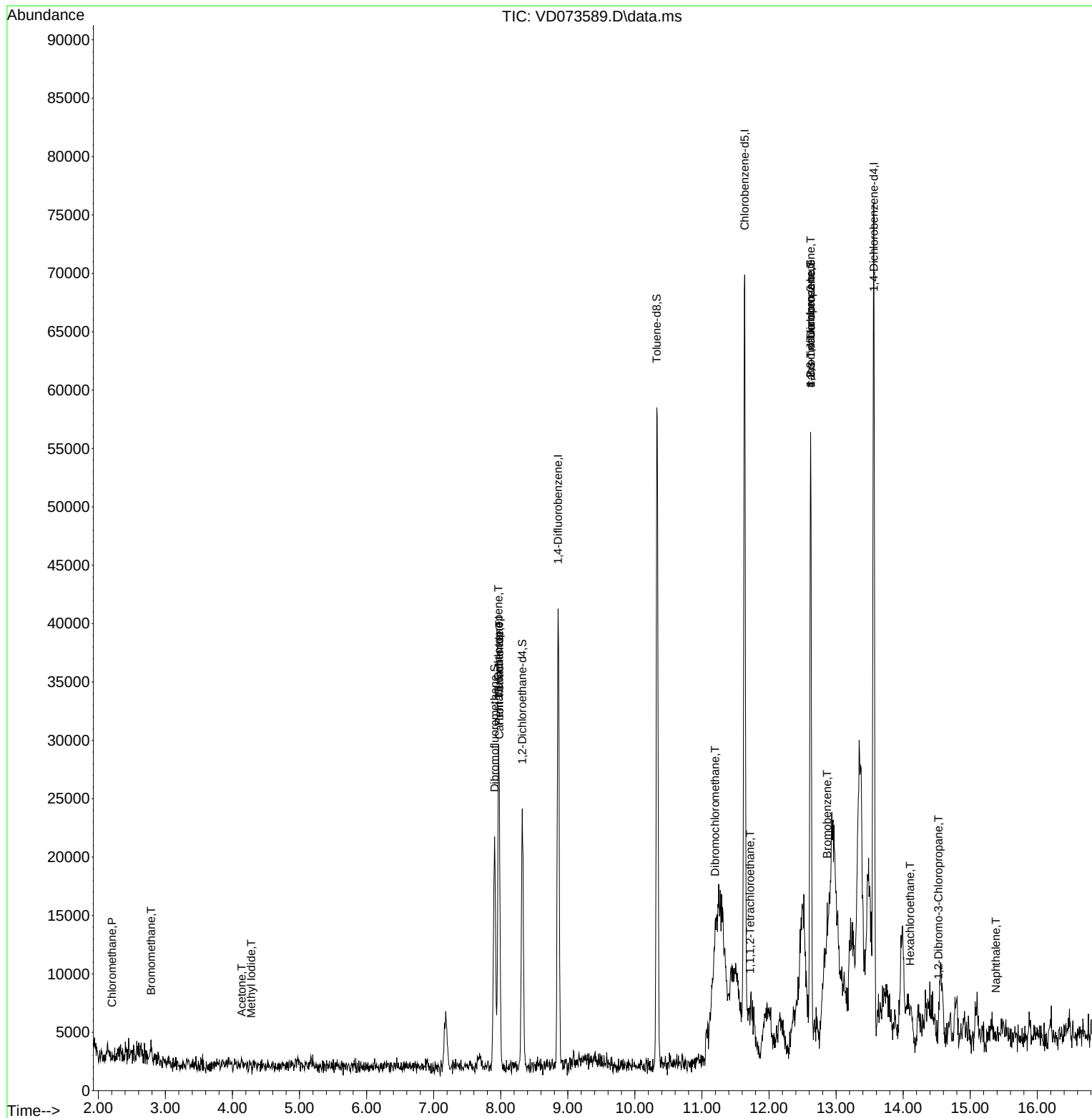
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.973     | 168   | 20613    | 50.000    | ug/l       | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.856     | 114   | 33652    | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.638    | 117   | 39881    | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561    | 152   | 20564    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.320     | 65    | 17243    | 77.950    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 155.900% |          |
| 35) Dibromofluoromethane      | 7.909     | 113   | 14332    | 66.231    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 132.460% |          |
| 50) Toluene-d8                | 10.326    | 98    | 40337    | 49.302    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery  | = 98.600%  |          |
| 62) 4-Bromofluorobenzene      | 12.620    | 95    | 18105    | 60.956    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery  | = 121.920% |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.203     | 50    | 441      | 2.188     | ug/l       | # 70     |
| 5) Bromomethane               | 2.785     | 94    | 797      | 5.882     | ug/l       | # 71     |
| 10) Methyl Iodide             | 4.279     | 142   | 75       | 4.443     | ug/l       | # 38     |
| 11) Tert butyl alcohol        | 5.197     | 59    | 56       | Below Cal | #          | 74       |
| 16) Acetone                   | 4.138     | 43    | 675      | 17.330    | ug/l       | # 47     |
| 20) Methylene Chloride        | 4.962     | 84    | 140      | Below Cal | #          | 2        |
| 36) 1,1-Dichloropropene       | 7.967     | 75    | 1655     | 5.092     | ug/l       | # 43     |
| 38) Carbon Tetrachloride      | 7.979     | 117   | 2153     | 6.332     | ug/l       | # 13     |
| 60) Dibromochloromethane      | 11.197    | 129   | 469      | 2.020     | ug/l       | 72       |
| 66) 1,1,1,2-Tetrachloroethane | 11.720    | 131   | 467      | 1.500     | ug/l       | # 8      |
| 76) 1,2,3-Trichloropropane    | 12.620    | 75    | 8485     | 42.474    | ug/l       | # 100    |
| 77) Bromobenzene              | 12.867    | 156   | 1754     | 5.039     | ug/l       | # 1      |
| 81) trans-1,4-Dichloro-2-b... | 12.620    | 75    | 8485     | 99.692    | ug/l       | # 7      |
| 90) Hexachloroethane          | 14.102    | 117   | 619      | 2.304     | ug/l       | # 17     |
| 92) 1,2-Dibromo-3-Chloropr... | 14.526    | 75    | 57       | 1.319     | ug/l       | # 1      |
| 95) Naphthalene               | 15.385    | 128   | 730      | 5.104     | ug/l       | # 60     |
| -----                         |           |       |          |           |            |          |

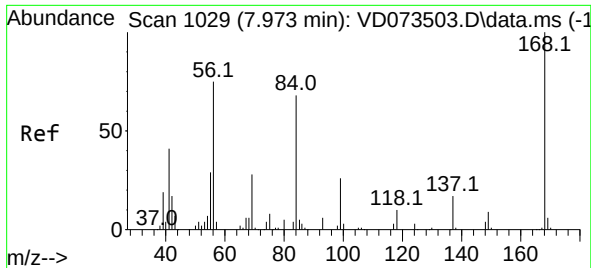
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061522\  
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MSVOA\_D  
ClientSampleId :

Quant Time: Jun 16 06:03:19 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D060922S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 09 12:33:32 2022  
Response via : Initial Calibration

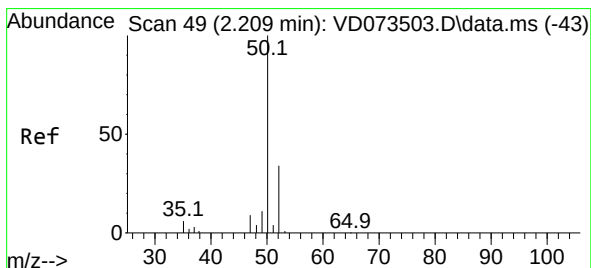
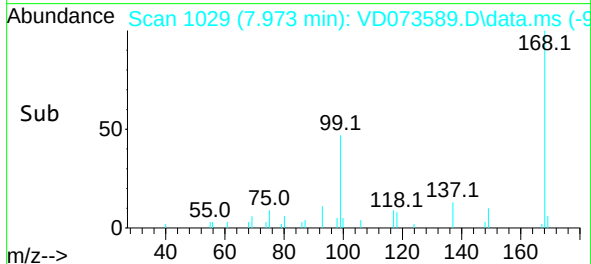
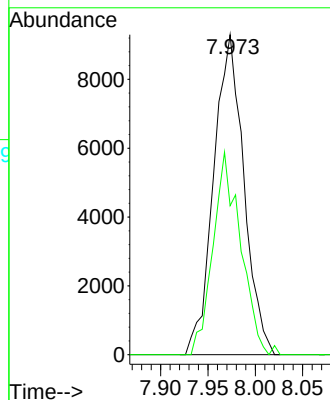
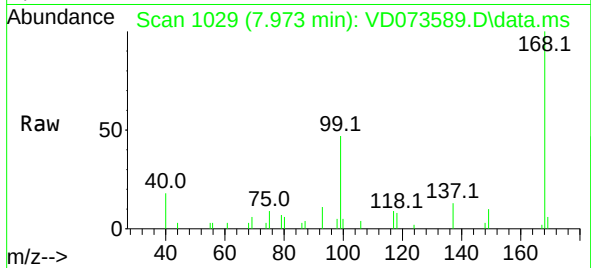




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. 0.000 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

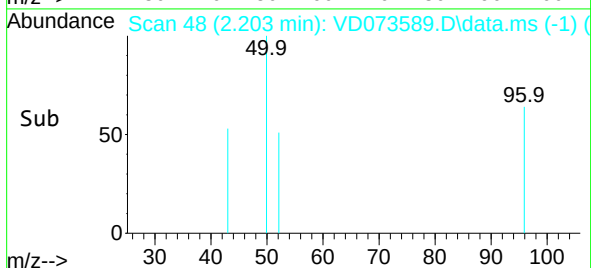
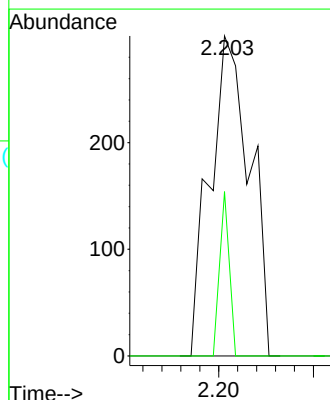
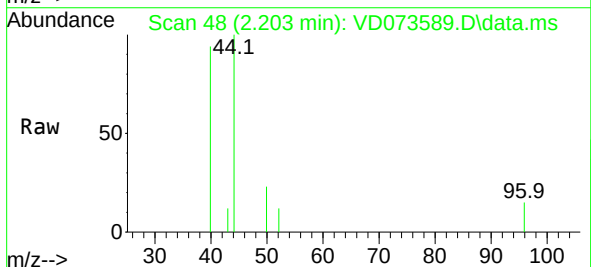
Instrument :  
MSVOA\_D  
ClientSampleId :

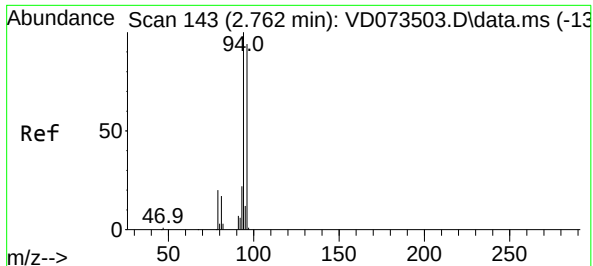
Tgt Ion:168 Resp: 20613  
Ion Ratio Lower Upper  
168 100  
99 46.5 49.8 74.6#



#3  
Chloromethane  
Concen: 2.188 ug/l  
RT: 2.203 min Scan# 48  
Delta R.T. -0.006 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

Tgt Ion: 50 Resp: 441  
Ion Ratio Lower Upper  
50 100  
52 51.3 27.4 41.0#

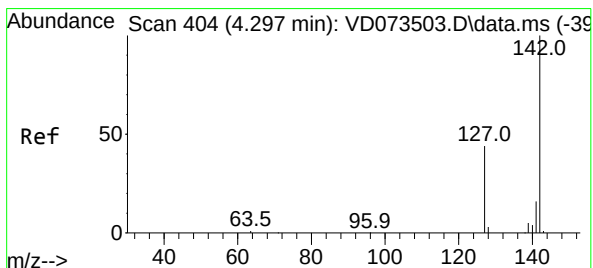
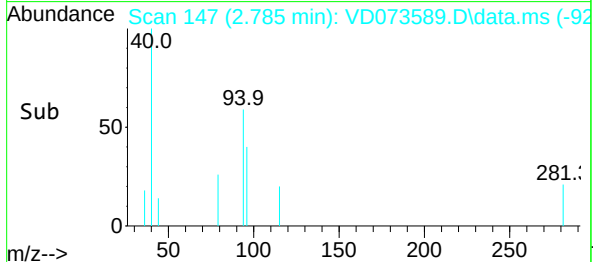
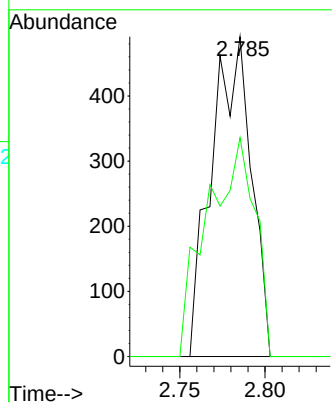
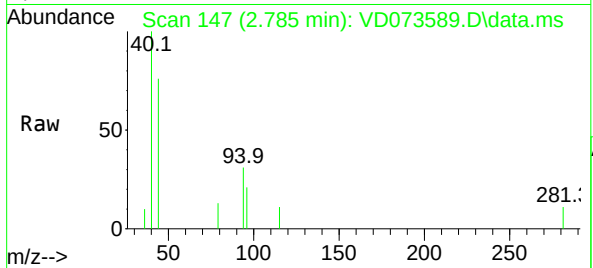




#5  
Bromomethane  
Concen: 5.882 ug/l  
RT: 2.785 min Scan# 143  
Delta R.T. 0.023 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

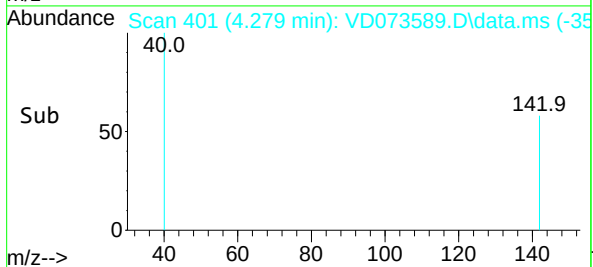
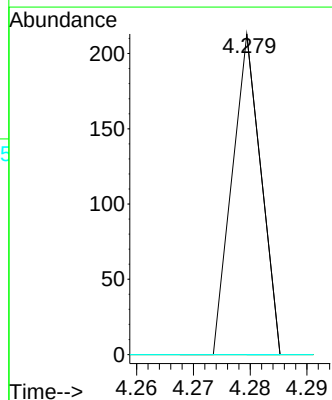
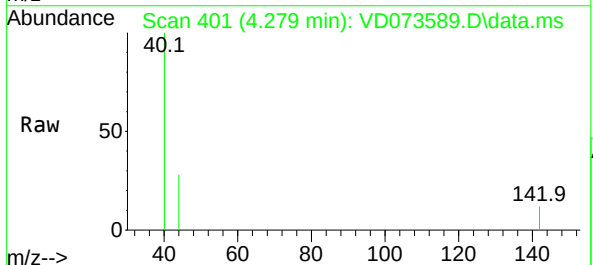
Instrument :  
MSVOA\_D  
ClientSampleId :

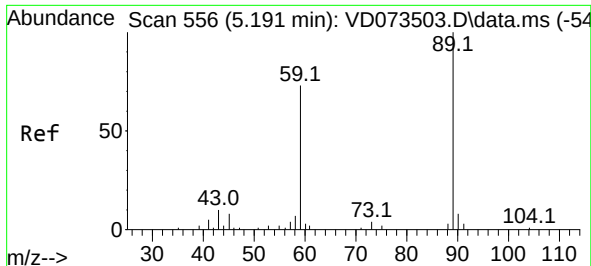
Tgt Ion: 94 Resp: 797  
Ion Ratio Lower Upper  
94 100  
96 68.4 77.6 116.4#



#10  
Methyl Iodide  
Concen: 4.443 ug/l  
RT: 4.279 min Scan# 401  
Delta R.T. -0.018 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

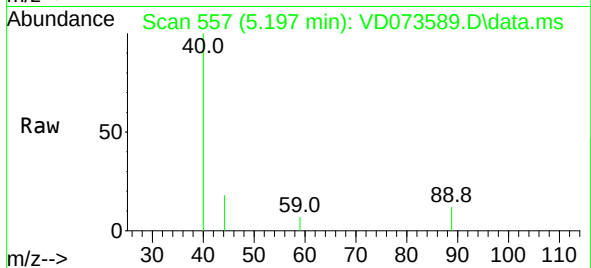
Tgt Ion: 142 Resp: 75  
Ion Ratio Lower Upper  
142 100  
127 0.0 37.3 55.9#  
141 0.0 11.7 17.5#



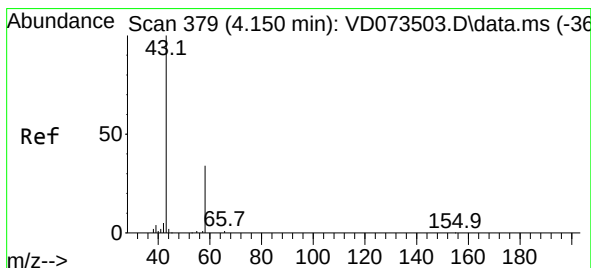
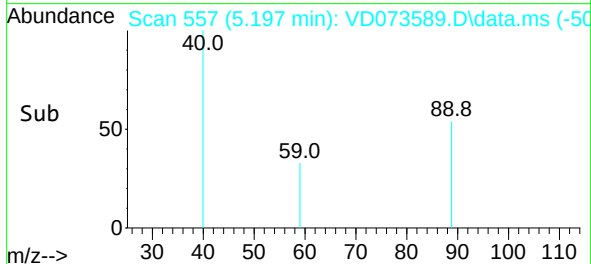
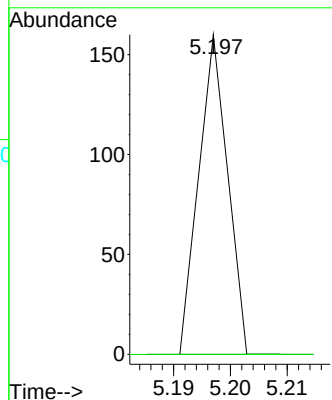


#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.197 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

Instrument :  
MSVOA\_D  
ClientSampleId :

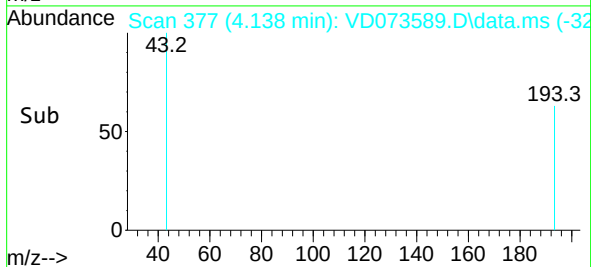
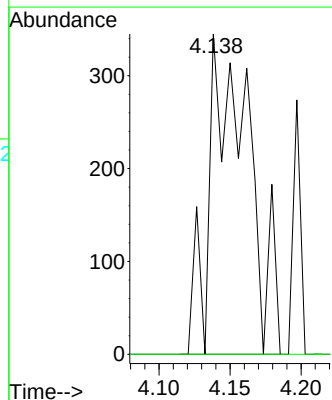
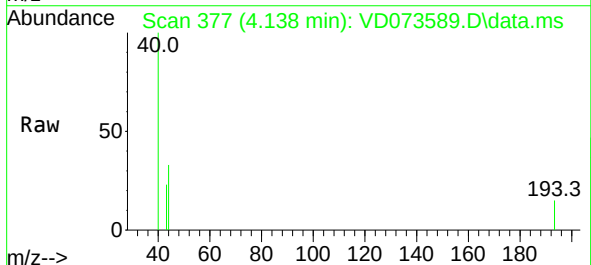


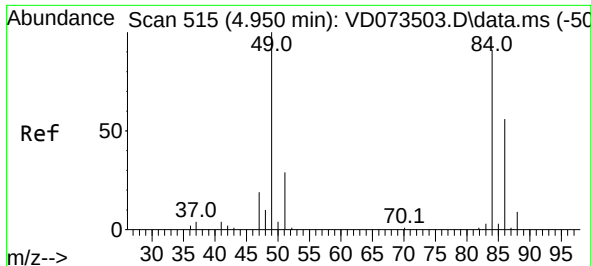
Tgt Ion: 59 Resp: 56  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.6#



#16  
Acetone  
Concen: 17.330 ug/l  
RT: 4.138 min Scan# 377  
Delta R.T. -0.012 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

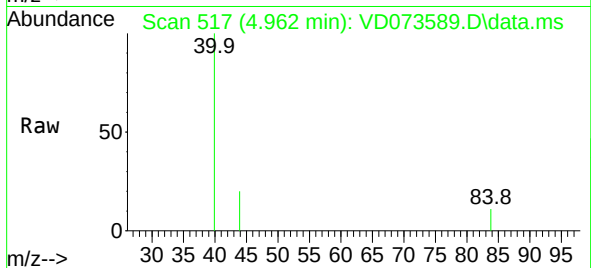
Tgt Ion: 43 Resp: 675  
Ion Ratio Lower Upper  
43 100  
58 0.0 22.1 33.1#



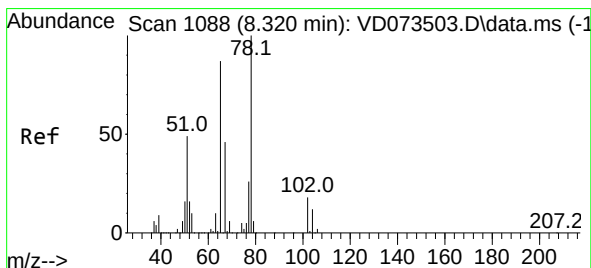
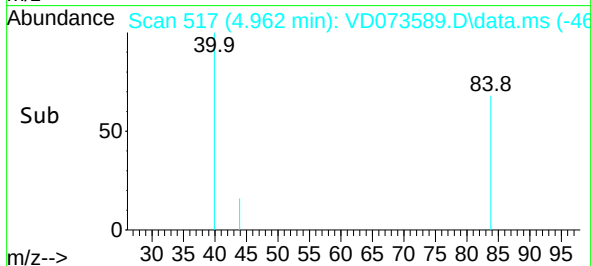
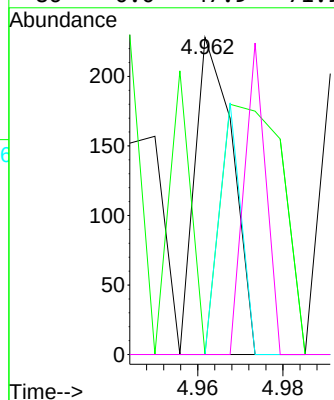


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.962 min Scan# 515  
Delta R.T. 0.012 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

Instrument :  
MSVOA\_D  
ClientSampleId :

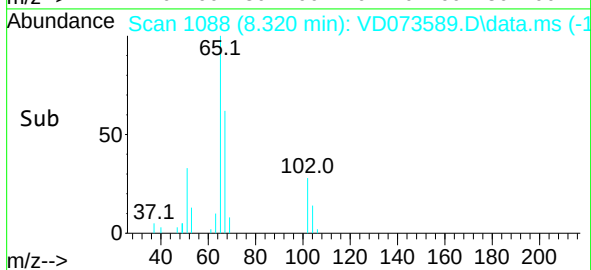
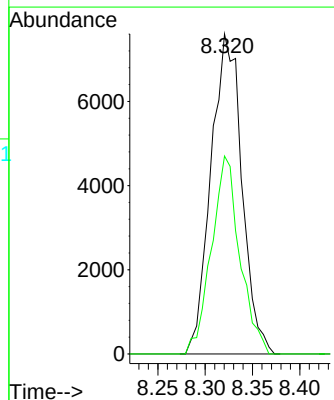
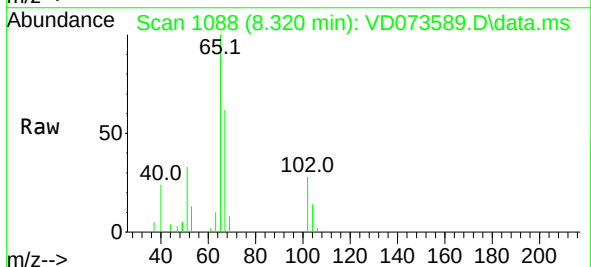


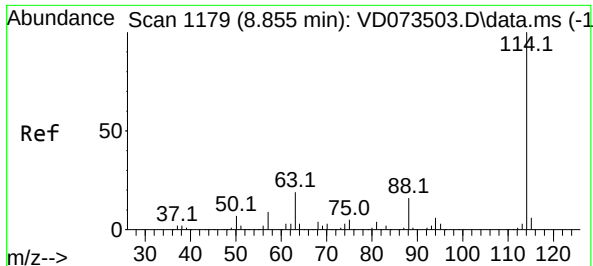
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 140    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 0.0   | 112.8 | 169.2# |
| 51       | 0.0   | 32.6  | 48.8#  |
| 86       | 0.0   | 47.9  | 71.9#  |



#33  
1,2-Dichloroethane-d4  
Concen: 77.950 ug/l  
RT: 8.320 min Scan# 1088  
Delta R.T. 0.000 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 65    | Resp: | 17243 |
| Ion      | Ratio | Lower | Upper |
| 65       | 100   |       |       |
| 67       | 56.9  | 0.0   | 101.4 |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.856 min Scan# 1179

Delta R.T. 0.001 min

Lab File: VD073589.D

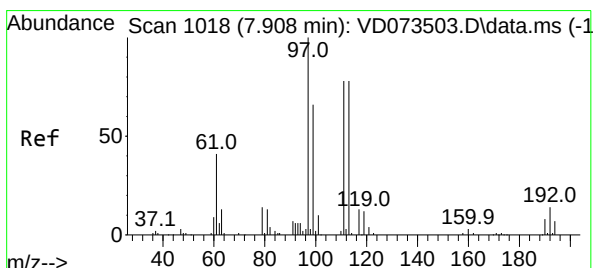
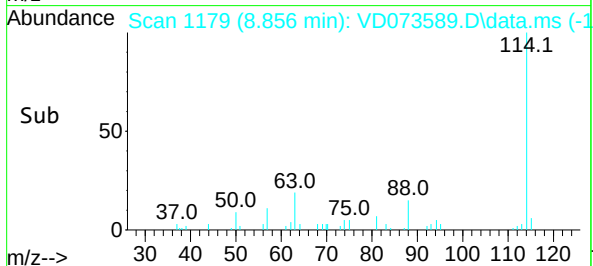
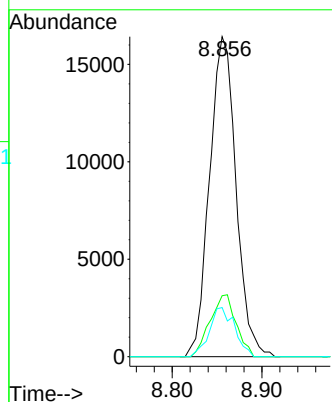
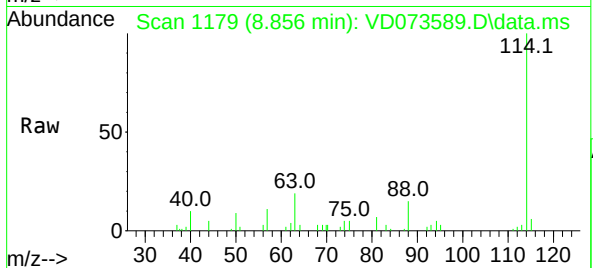
Acq: 15 Jun 2022 14:06

Instrument :

MSVOA\_D

ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:114 | Resp: | 33652    |
| Ion Ratio   | Lower | Upper    |
| 114         | 100   |          |
| 63          | 19.0  | 0.0 46.6 |
| 88          | 15.3  | 0.0 33.2 |



#35

Dibromofluoromethane

Concen: 66.231 ug/l

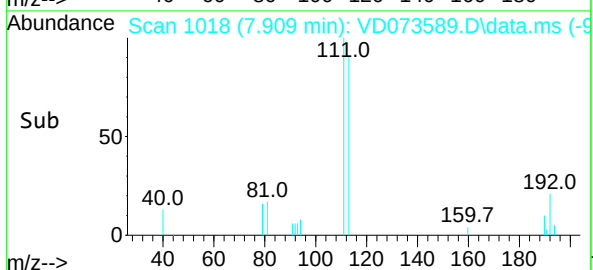
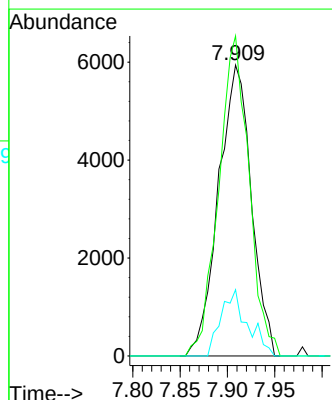
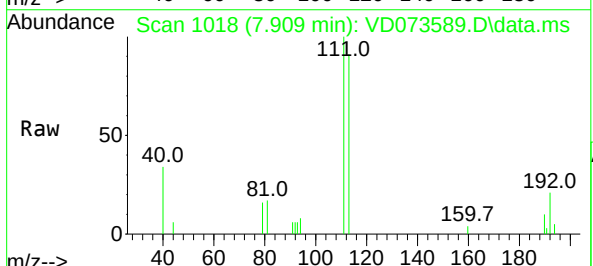
RT: 7.909 min Scan# 1018

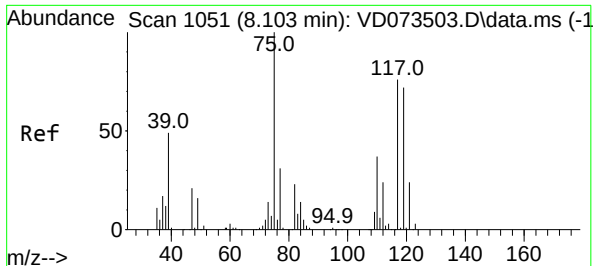
Delta R.T. 0.001 min

Lab File: VD073589.D

Acq: 15 Jun 2022 14:06

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:113 | Resp: | 14332      |
| Ion Ratio   | Lower | Upper      |
| 113         | 100   |            |
| 111         | 101.5 | 83.8 125.6 |
| 192         | 18.3  | 14.6 21.8  |





#36

1,1-Dichloropropene

Concen: 5.092 ug/l

RT: 7.967 min Scan# 10

Delta R.T. -0.136 min

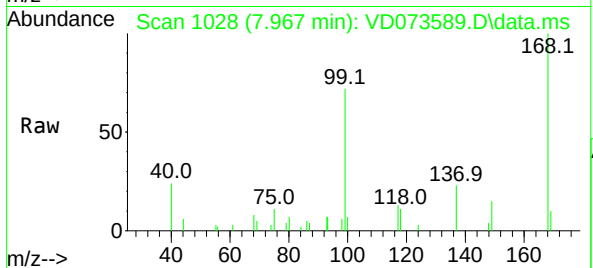
Lab File: VD073589.D

Acq: 15 Jun 2022 14:06

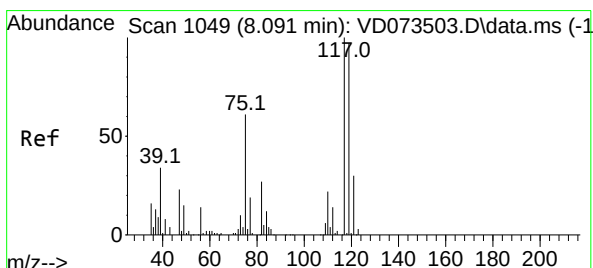
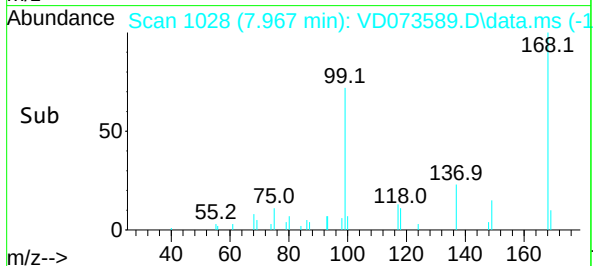
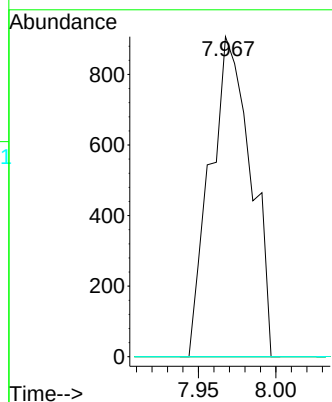
Instrument :

MSVOA\_D

ClientSampleId :



|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 1655     |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 110         | 0.0 16.4 49.1# |
| 77          | 0.0 24.2 36.2# |



#38

Carbon Tetrachloride

Concen: 6.332 ug/l

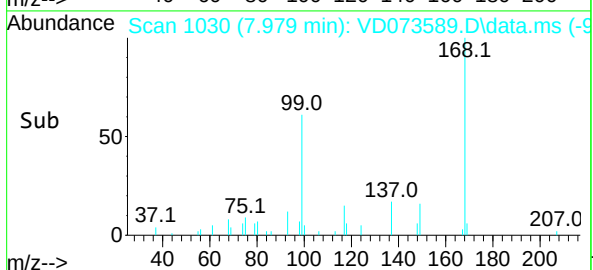
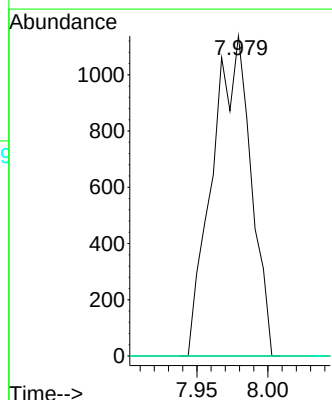
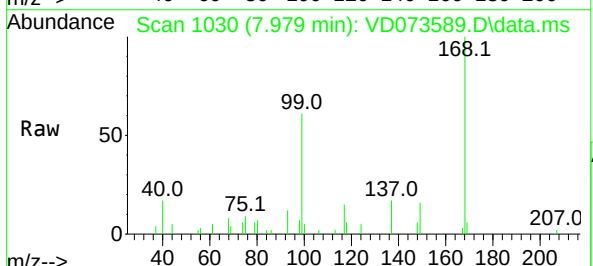
RT: 7.979 min Scan# 1030

Delta R.T. -0.112 min

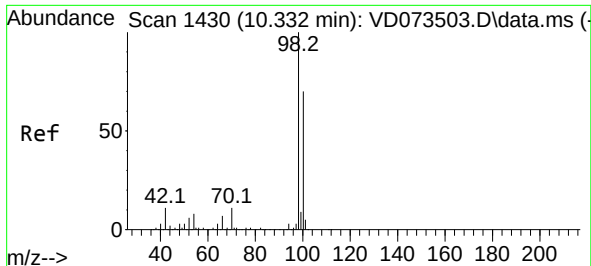
Lab File: VD073589.D

Acq: 15 Jun 2022 14:06

|              |                 |
|--------------|-----------------|
| Tgt Ion: 117 | Resp: 2153      |
| Ion Ratio    | Lower Upper     |
| 117          | 100             |
| 119          | 0.0 75.8 113.6# |
| 121          | 0.0 24.5 36.7#  |



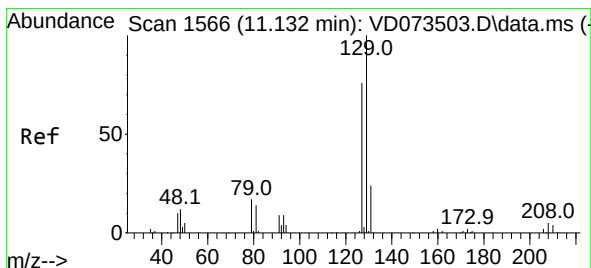
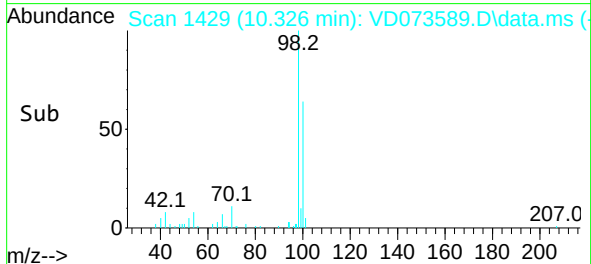
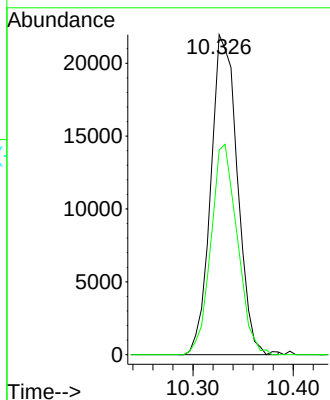
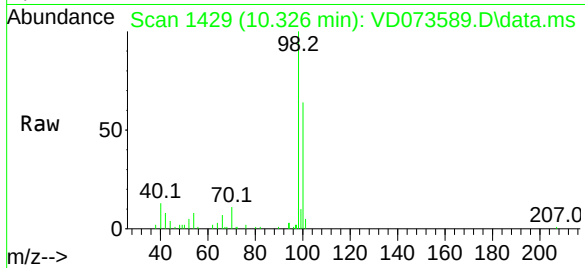




#50  
Toluene-d8  
Concen: 49.302 ug/l  
RT: 10.326 min Scan# 14  
Delta R.T. -0.006 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

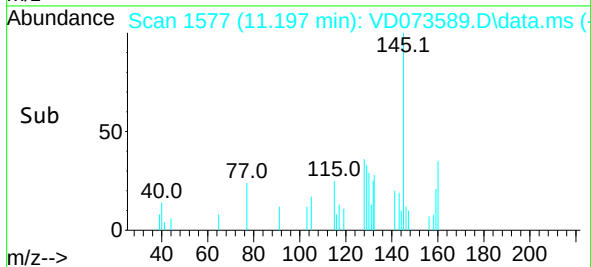
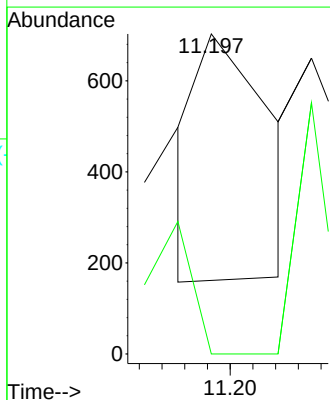
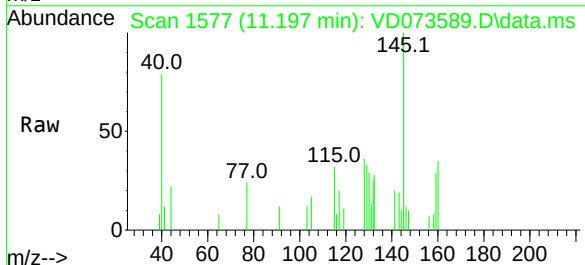
Instrument :  
MSVOA\_D  
ClientSampleId :

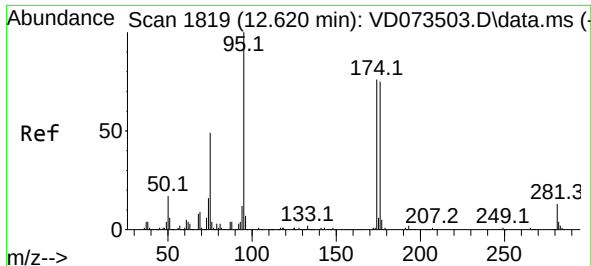
Tgt Ion: 98 Resp: 40337  
Ion Ratio Lower Upper  
98 100  
100 65.4 52.4 78.6



#60  
Dibromochloromethane  
Concen: 2.020 ug/l  
RT: 11.197 min Scan# 1577  
Delta R.T. 0.065 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

Tgt Ion:129 Resp: 469  
Ion Ratio Lower Upper  
129 100  
127 54.2 39.2 117.6

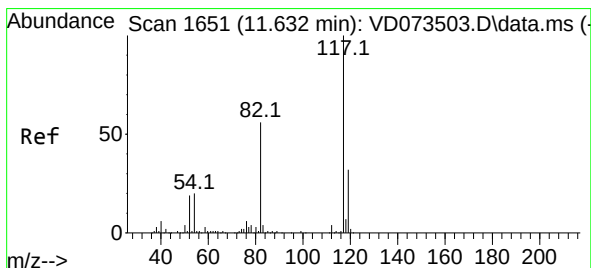
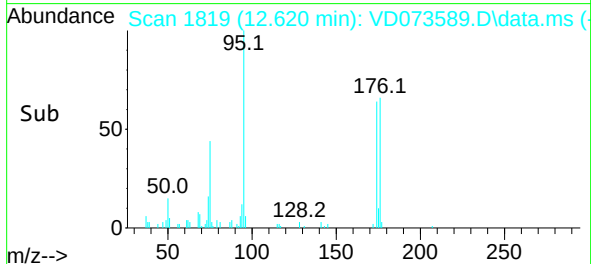
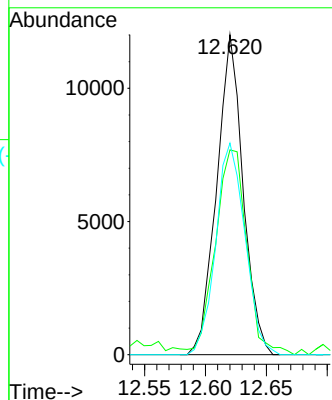
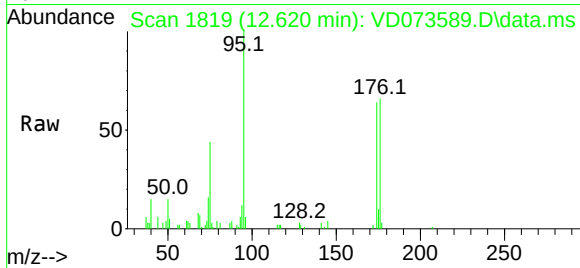




#62  
4-Bromofluorobenzene  
Concen: 60.956 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.000 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

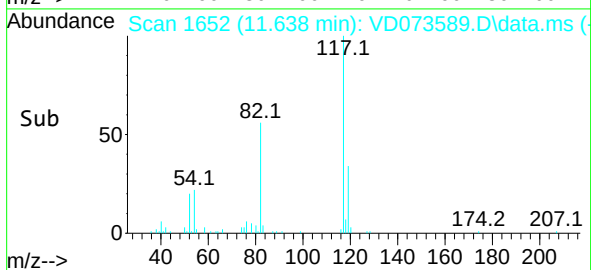
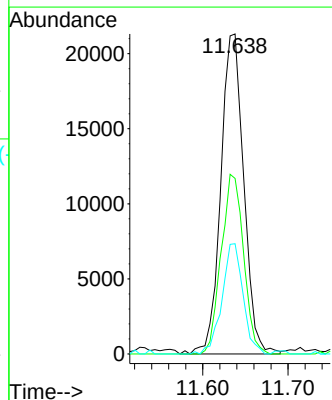
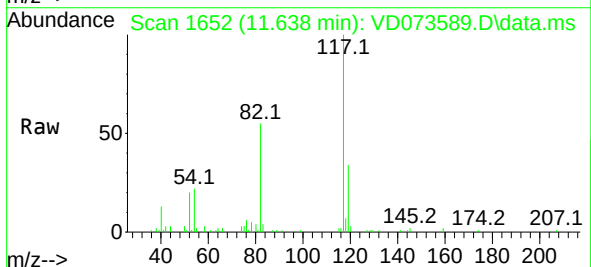
Instrument :  
MSVOA\_D  
ClientSampleId :

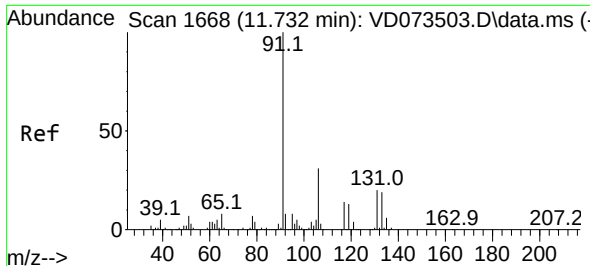
Tgt Ion: 95 Resp: 18105  
Ion Ratio Lower Upper  
95 100  
174 76.2 0.0 152.8  
176 73.2 0.0 145.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.006 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

Tgt Ion: 117 Resp: 39881  
Ion Ratio Lower Upper  
117 100  
82 54.9 45.3 67.9  
119 34.5 26.6 40.0

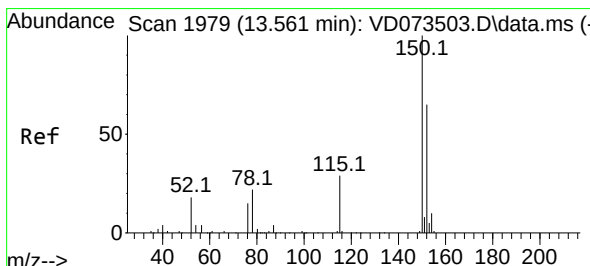
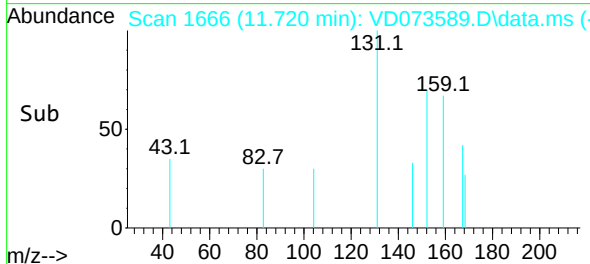
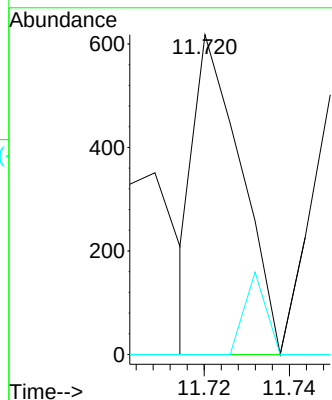
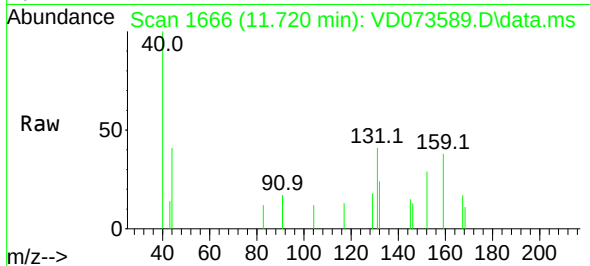




#66  
1,1,1,2-Tetrachloroethane  
Concen: 1.500 ug/l  
RT: 11.720 min Scan# 1668  
Delta R.T. -0.012 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

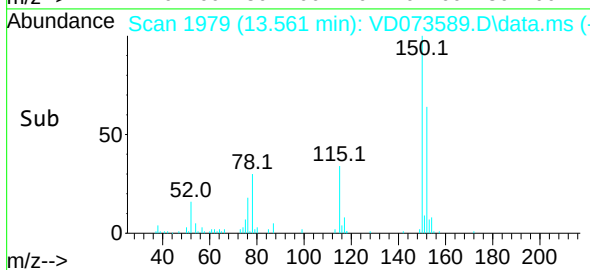
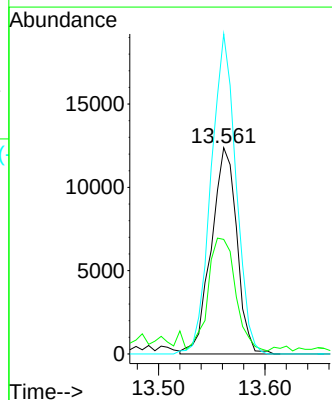
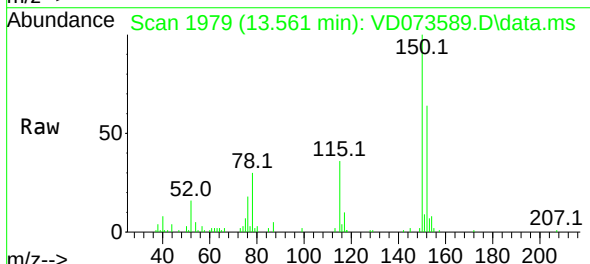
Instrument :  
MSVOA\_D  
ClientSampleId :

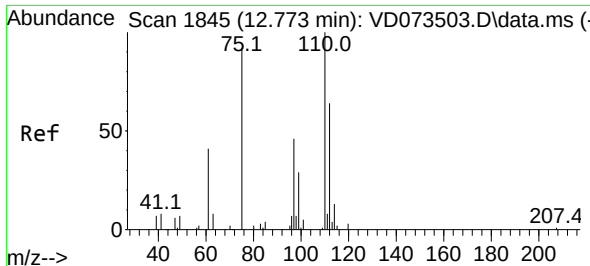
Tgt Ion:131 Resp: 467  
Ion Ratio Lower Upper  
131 100  
133 0.0 48.1 144.3#  
119 0.0 31.9 95.9#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1979  
Delta R.T. 0.000 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

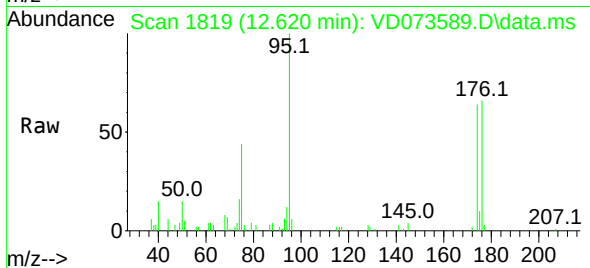
Tgt Ion:152 Resp: 20564  
Ion Ratio Lower Upper  
152 100  
115 58.9 31.3 93.8  
150 151.7 0.0 348.6



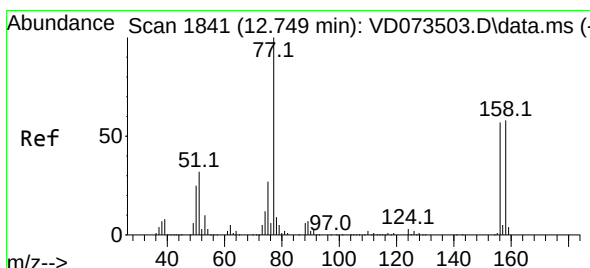
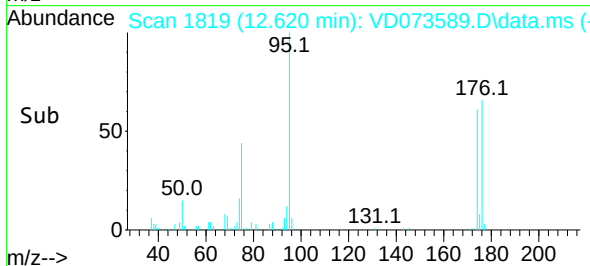
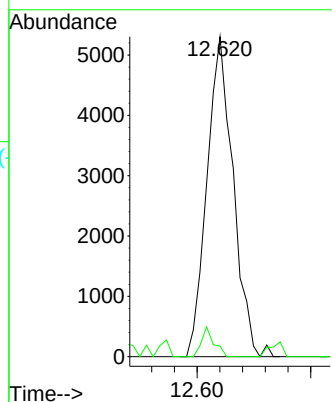


#76  
1,2,3-Trichloropropane  
Concen: 42.474 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.153 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

Instrument :  
MSVOA\_D  
ClientSampleId :

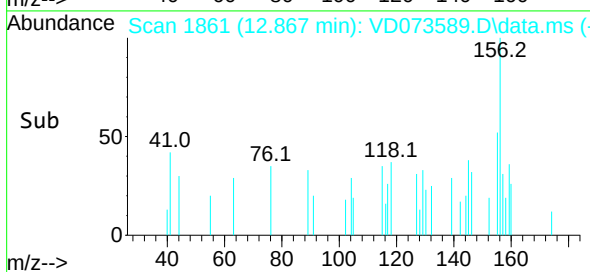
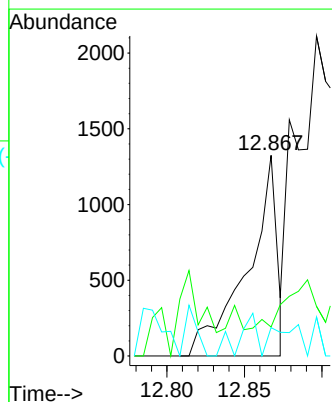
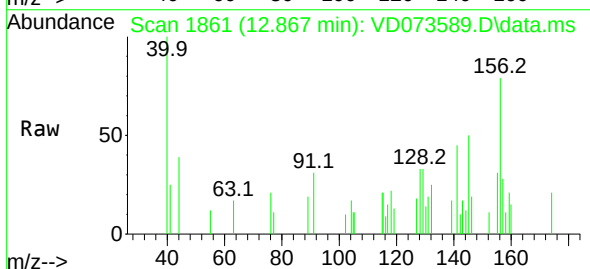


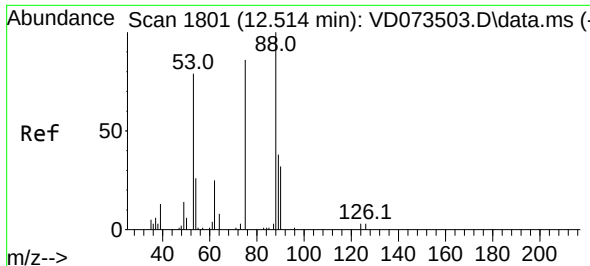
Tgt Ion: 75 Resp: 8485  
Ion Ratio Lower Upper  
75 100  
77 4.4 0.0 0.0#



#77  
Bromobenzene  
Concen: 5.039 ug/l  
RT: 12.867 min Scan# 1861  
Delta R.T. 0.118 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

Tgt Ion: 156 Resp: 1754  
Ion Ratio Lower Upper  
156 100  
77 0.0 102.8 308.3#  
158 12.5 48.7 146.1#

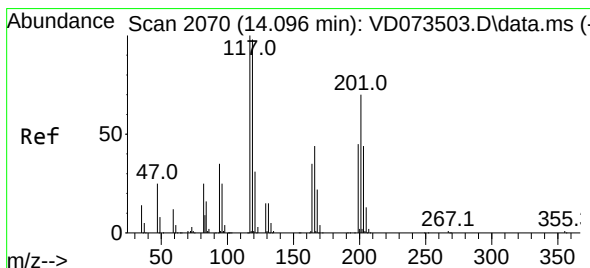
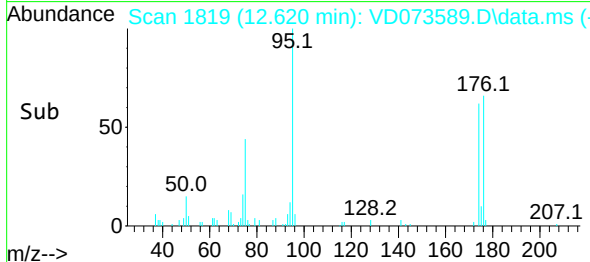
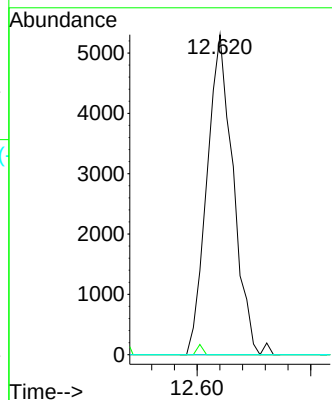
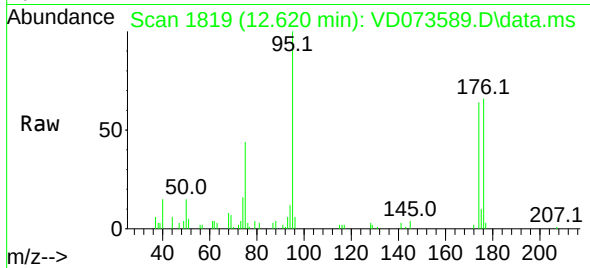




#81  
trans-1,4-Dichloro-2-butene  
Concen: 99.692 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.106 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

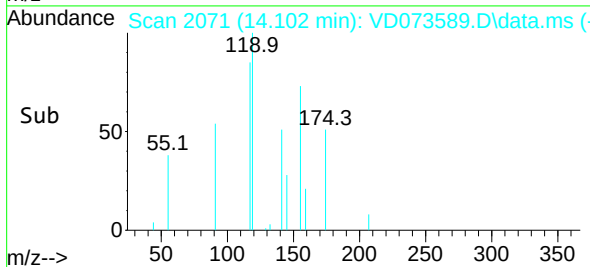
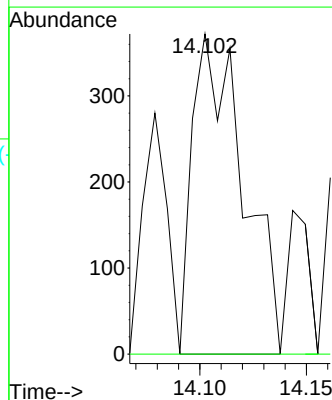
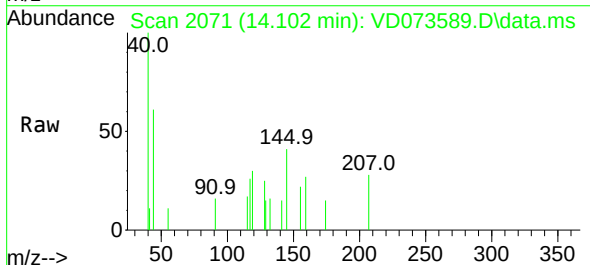
Instrument :  
MSVOA\_D  
ClientSampleId :

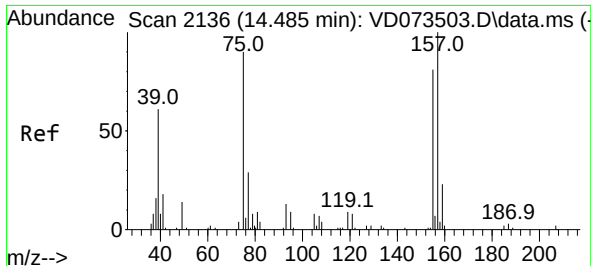
Tgt Ion: 75 Resp: 8485  
Ion Ratio Lower Upper  
75 100  
53 0.7 86.5 129.7#  
89 0.0 33.9 50.9#



#90  
Hexachloroethane  
Concen: 2.304 ug/l  
RT: 14.102 min Scan# 2071  
Delta R.T. 0.006 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

Tgt Ion: 117 Resp: 619  
Ion Ratio Lower Upper  
117 100  
201 0.0 33.4 100.2#

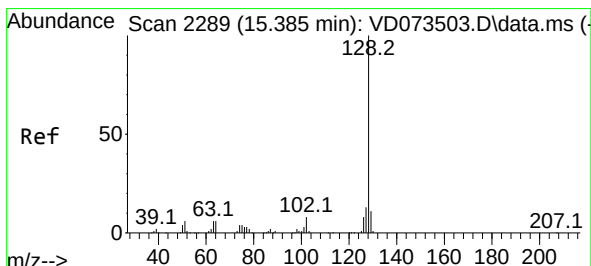
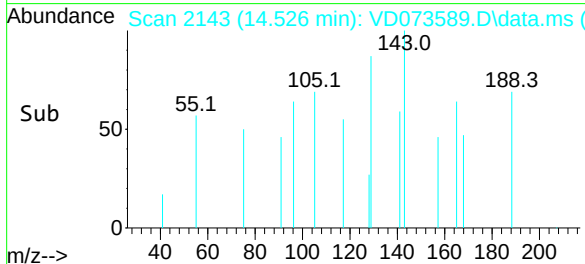
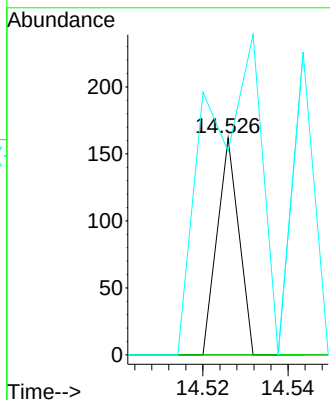
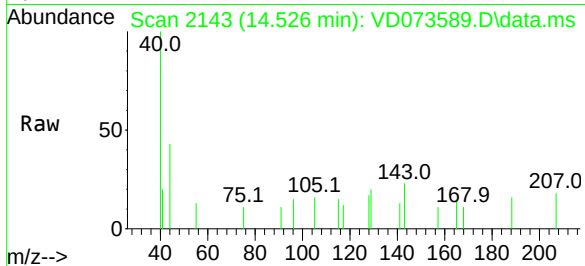




#92  
1,2-Dibromo-3-Chloropropane  
Concen: 1.319 ug/l  
RT: 14.526 min Scan# 2136  
Delta R.T. 0.041 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 75 Resp: 57  
Ion Ratio Lower Upper  
75 100  
155 0.0 36.8 110.3#  
157 363.2 48.4 145.0#



#95  
Naphthalene  
Concen: 5.104 ug/l  
RT: 15.385 min Scan# 2289  
Delta R.T. -0.000 min  
Lab File: VD073589.D  
Acq: 15 Jun 2022 14:06

Tgt Ion: 128 Resp: 730  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 28.6 8.4 12.6#

