

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD091321\  
 Data File : VD070335.D  
 Acq On : 13 Sep 2021 19:19  
 Operator : VA/SY  
 Sample : M3687-24  
 Misc : 4.99G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 A010145

Quant Time: Sep 14 00:56:26 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D090821S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 09 03:07:09 2021  
 Response via : Initial Calibration

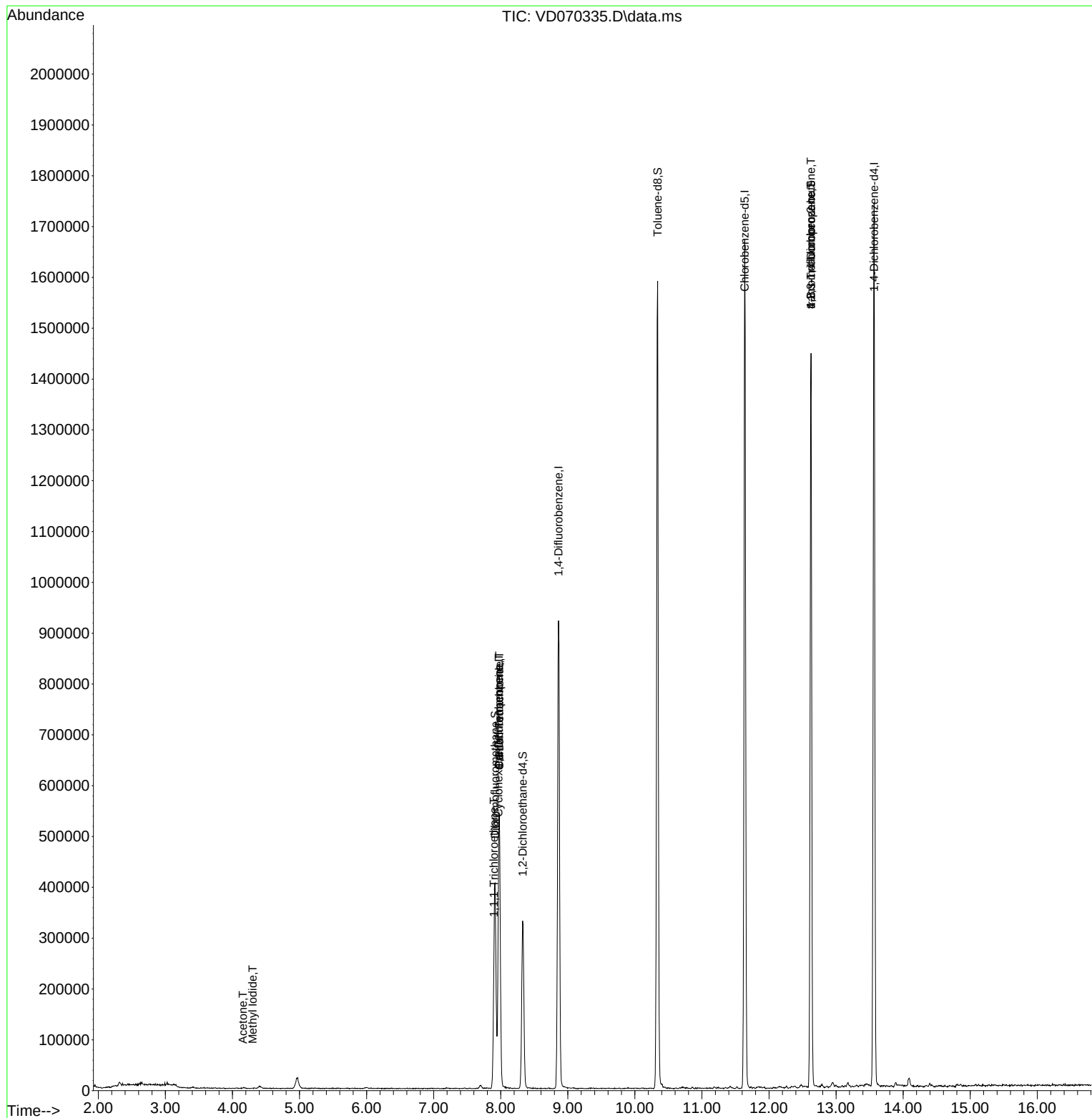
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.973  | 168   | 381094   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 801265   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 945316   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567 | 152   | 465666   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 265604   | 54.279    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 108.560% |          |
| 35) Dibromofluoromethane      | 7.914  | 113   | 286106   | 50.163    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 100.320% |          |
| 50) Toluene-d8                | 10.338 | 98    | 1068714  | 51.609    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 103.220% |          |
| 62) 4-Bromofluorobenzene      | 12.626 | 95    | 457695   | 63.242    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 126.480% |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           |            | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.991  | 85    | 70       | Below Cal | #          | 43       |
| 3) Chloromethane              | 2.209  | 50    | 780      | Below Cal |            | 94       |
| 5) Bromomethane               | 2.779  | 94    | 1588     | Below Cal |            | 94       |
| 6) Chloroethane               | 2.991  | 64    | 82       | Below Cal | #          | 43       |
| 10) Methyl Iodide             | 4.303  | 142   | 201      | 1.071     | ug/l #     | 74       |
| 16) Acetone                   | 4.156  | 43    | 1322     | 1.513     | ug/l #     | 85       |
| 18) Methyl Acetate            | 4.844  | 43    | 54       | Below Cal | #          | 48       |
| 20) Methylene Chloride        | 4.956  | 84    | 17292    | Below Cal |            | 92       |
| 31) Cyclohexane               | 7.967  | 56    | 9188     | 1.090     | ug/l #     | 15       |
| 32) 1,1,1-Trichloroethane     | 7.897  | 97    | 15699    | 1.843     | ug/l #     | 93       |
| 36) 1,1-Dichloropropene       | 7.973  | 75    | 35956    | 4.198     | ug/l #     | 48       |
| 38) Carbon Tetrachloride      | 7.979  | 117   | 42867    | 5.061     | ug/l #     | 18       |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75    | 227825   | 48.368    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75    | 227825   | 121.190   | ug/l #     | 17       |
| -----                         |        |       |          |           |            |          |

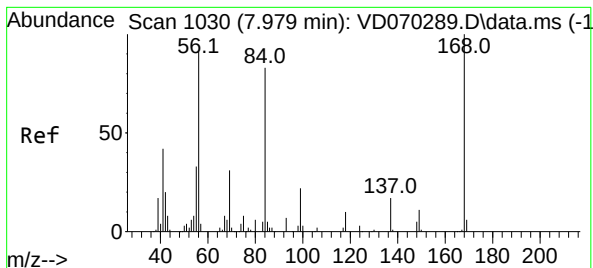
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : M3687-24  
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ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
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A010145

Quant Time: Sep 14 00:56:26 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D090821S.M  
Quant Title : SW846 8260  
QLast Update : Thu Sep 09 03:07:09 2021  
Response via : Initial Calibration

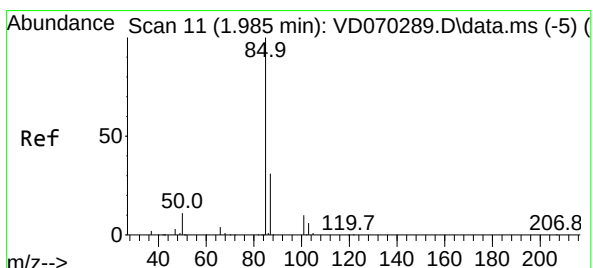
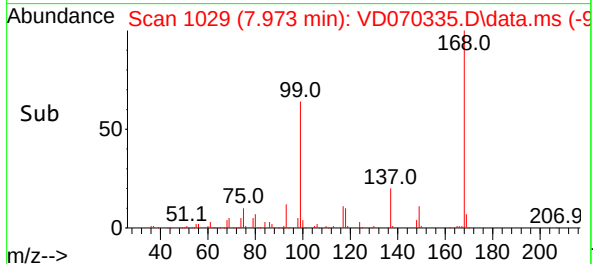
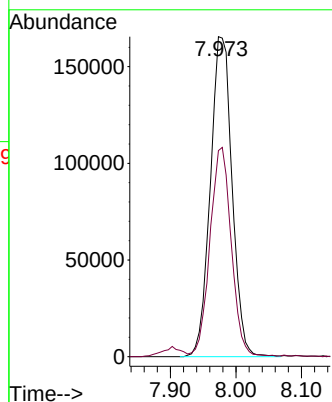
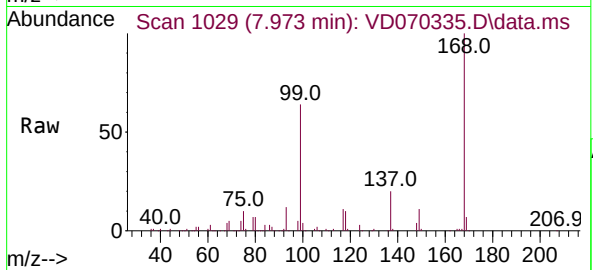




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.006 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

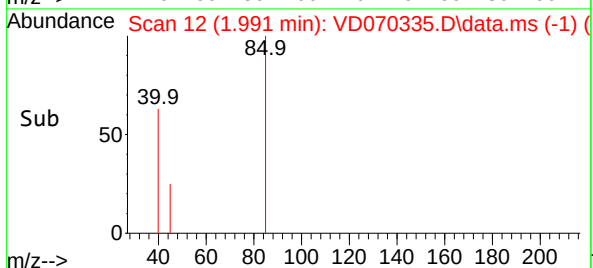
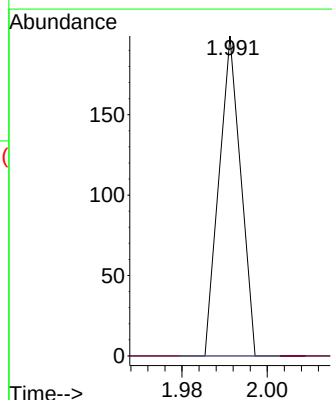
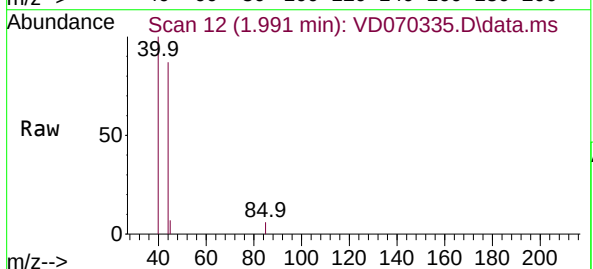
Instrument :  
MSVOA\_D  
ClientSampleId :  
A010145

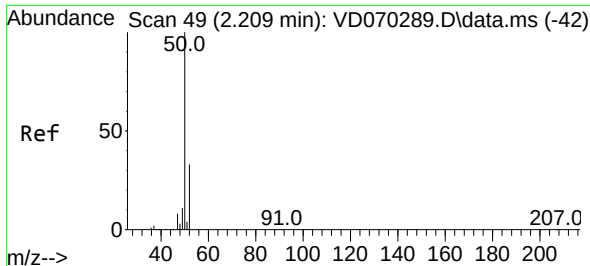
Tgt Ion:168 Resp: 381094  
Ion Ratio Lower Upper  
168 100  
99 64.2 50.8 76.2



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.991 min Scan# 12  
Delta R.T. 0.006 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

Tgt Ion: 85 Resp: 70  
Ion Ratio Lower Upper  
85 100  
87 0.0 15.6 46.8#

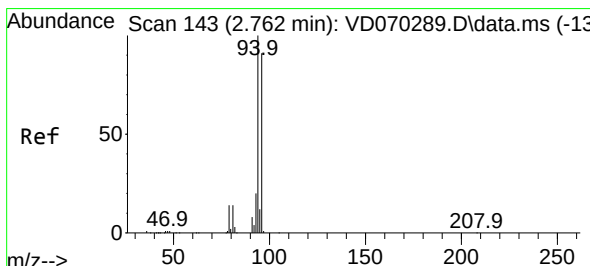
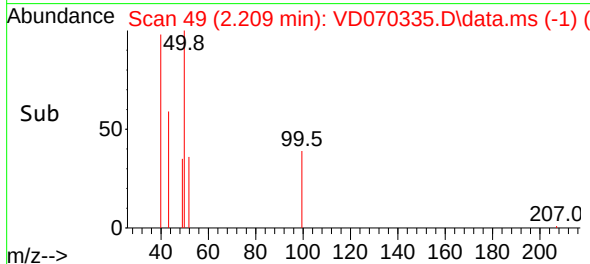
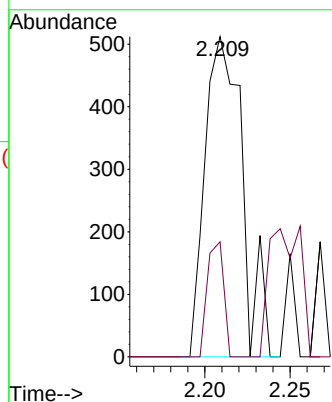
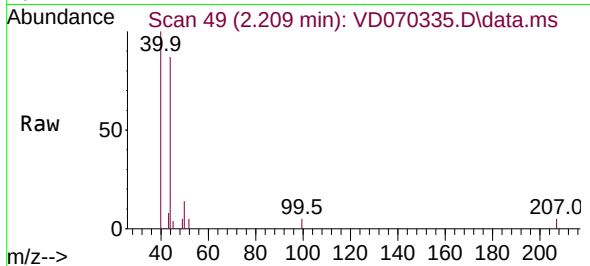




#3  
Chloromethane  
Concen: Below Cal  
RT: 2.209 min Scan# 49  
Delta R.T. -0.000 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

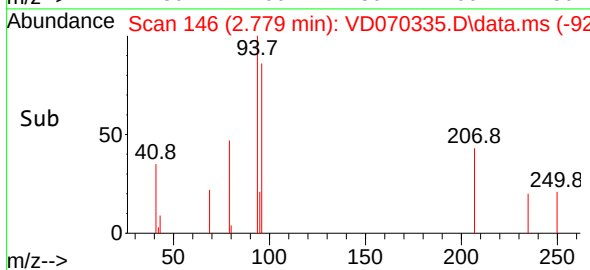
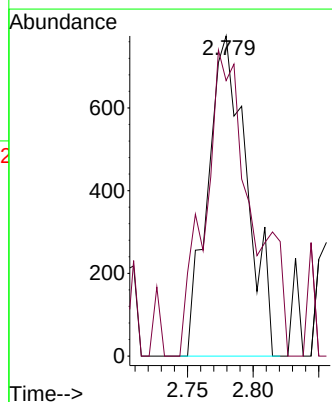
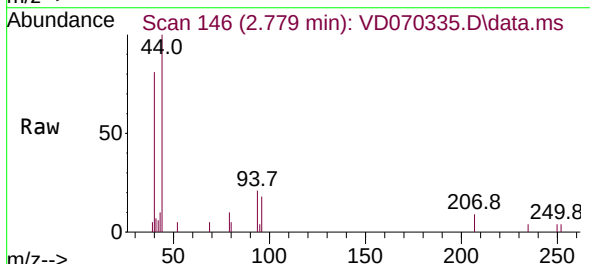
Instrument :  
MSVOA\_D  
ClientSampleId :  
A010145

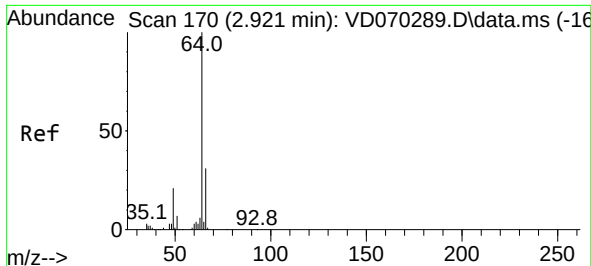
Tgt Ion: 50 Resp: 780  
Ion Ratio Lower Upper  
50 100  
52 35.9 26.2 39.2



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.779 min Scan# 146  
Delta R.T. 0.017 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

Tgt Ion: 94 Resp: 1588  
Ion Ratio Lower Upper  
94 100  
96 86.0 73.0 109.6

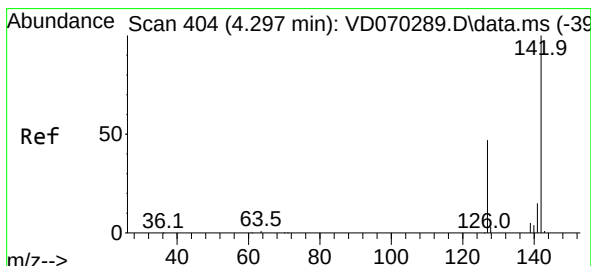
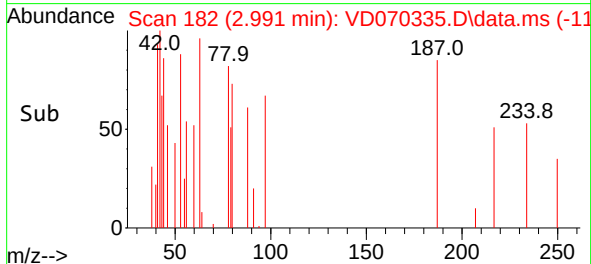
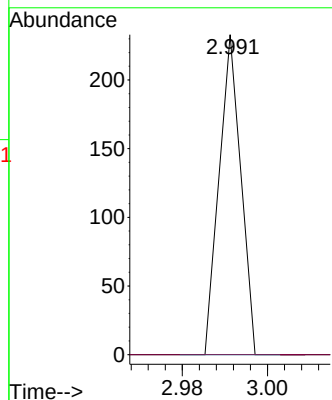
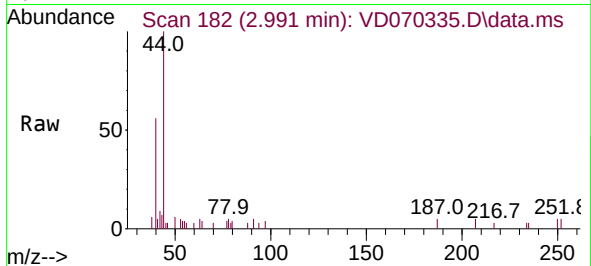




#6  
Chloroethane  
Concen: Below Cal  
RT: 2.991 min Scan# 182  
Delta R.T. 0.070 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

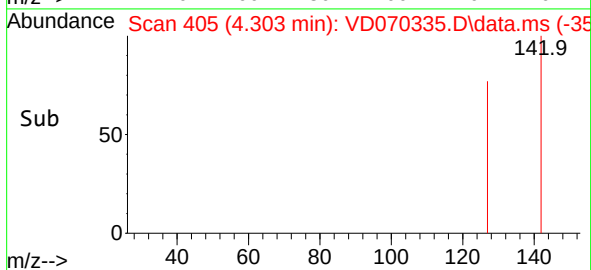
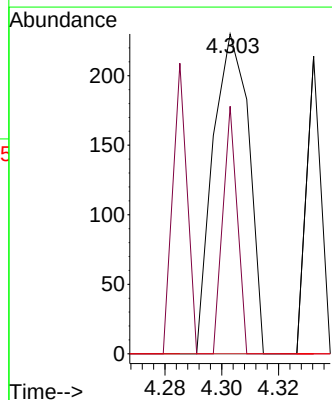
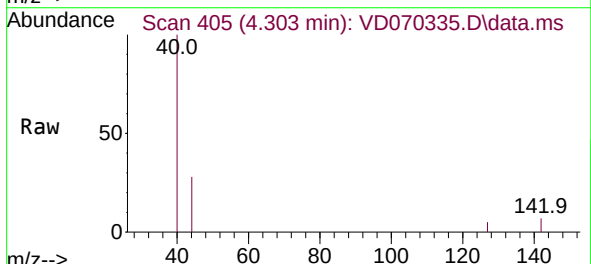
Instrument :  
MSVOA\_D  
ClientSampleId :  
A010145

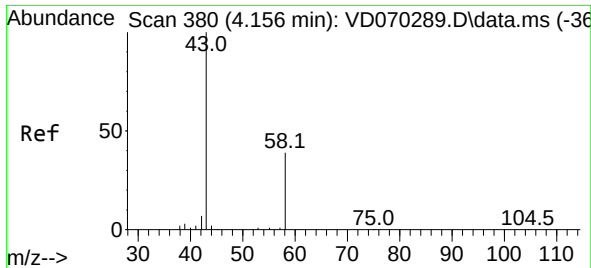
Tgt Ion: 64 Resp: 82  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.0 37.4#



#10  
Methyl Iodide  
Concen: 1.071 ug/l  
RT: 4.303 min Scan# 405  
Delta R.T. 0.006 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

Tgt Ion: 142 Resp: 201  
Ion Ratio Lower Upper  
142 100  
127 31.3 36.9 55.3#  
141 0.0 11.8 17.6#

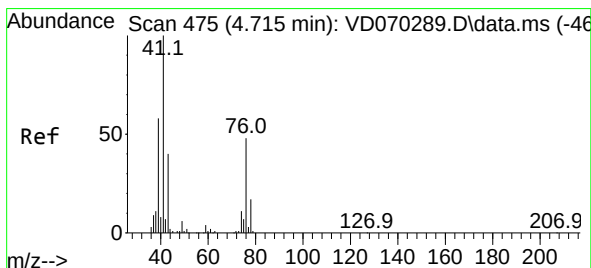
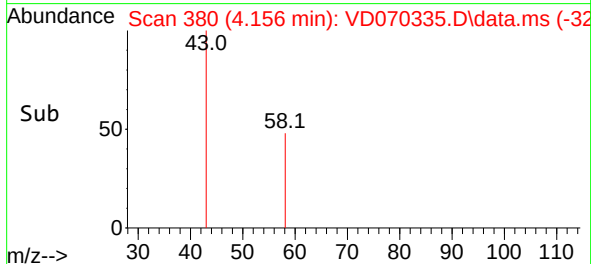
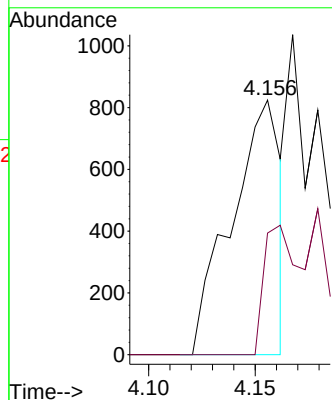
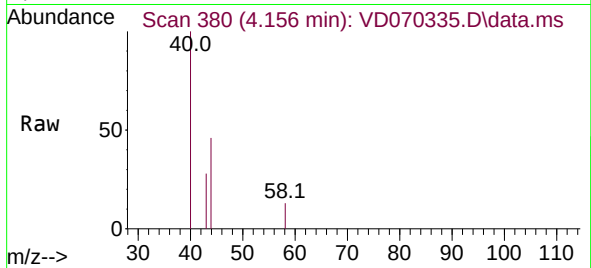




#16  
Acetone  
Concen: 1.513 ug/l  
RT: 4.156 min Scan# 380  
Delta R.T. 0.000 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

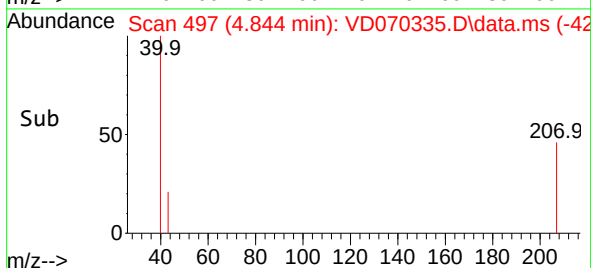
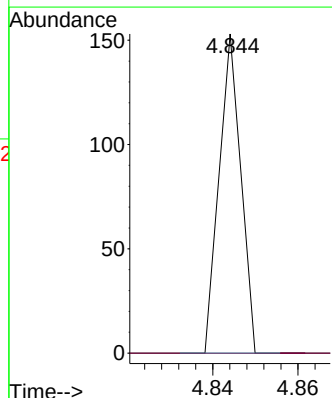
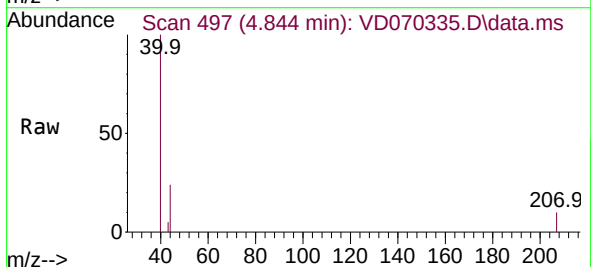
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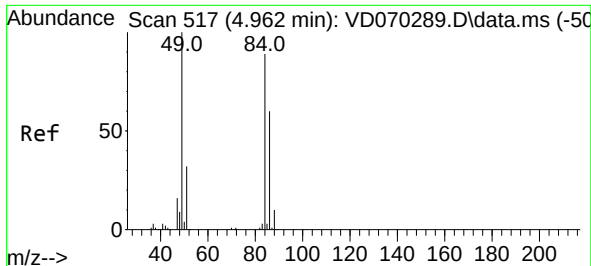
Tgt Ion: 43 Resp: 1322  
Ion Ratio Lower Upper  
43 100  
58 47.8 30.9 46.3#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.844 min Scan# 497  
Delta R.T. 0.129 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

Tgt Ion: 43 Resp: 54  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.6 32.4#

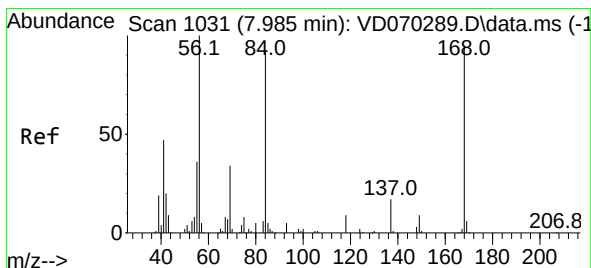
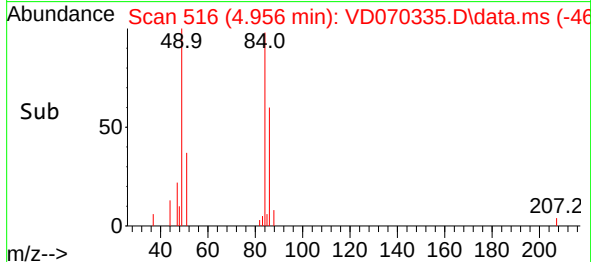
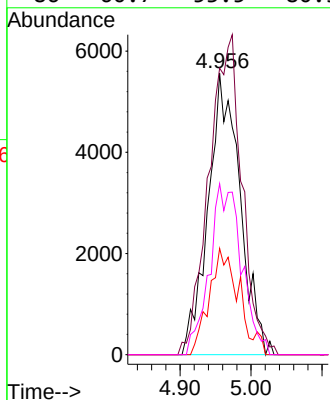
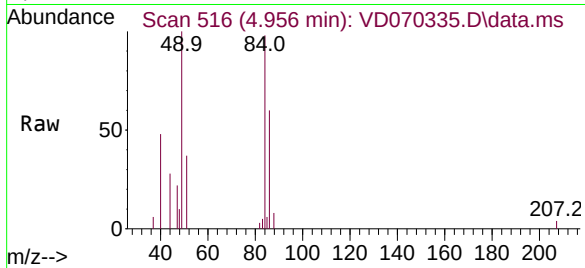




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.956 min Scan# 516  
Delta R.T. -0.006 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

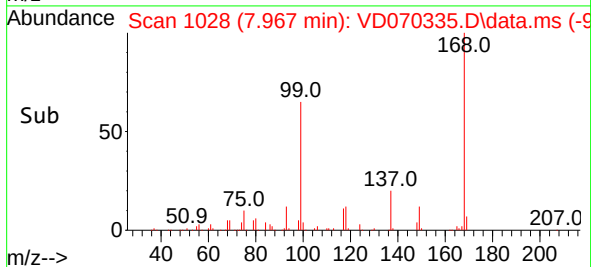
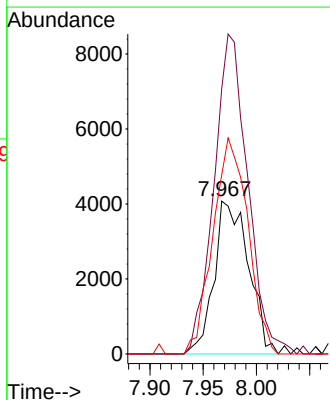
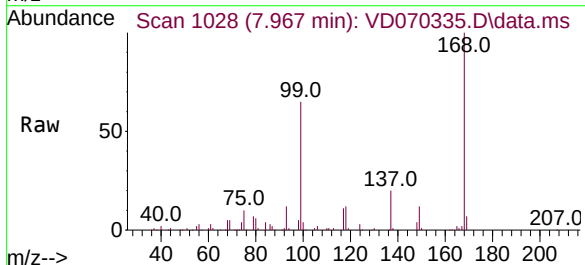
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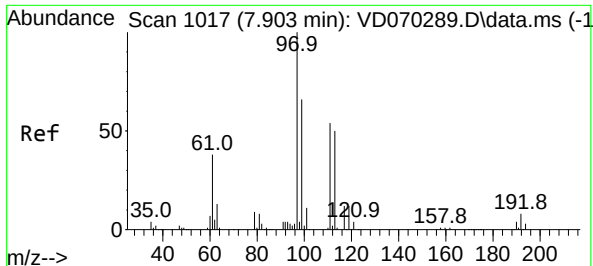
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 17292 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 101.8 | 89.6  | 134.4 |
| 51       | 37.8  | 28.6  | 43.0  |
| 86       | 60.7  | 53.5  | 80.3  |



#31  
Cyclohexane  
Concen: 1.090 ug/l  
RT: 7.967 min Scan# 1028  
Delta R.T. -0.018 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 9188   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 173.7 | 26.9  | 40.3#  |
| 84       | 117.2 | 73.6  | 110.4# |

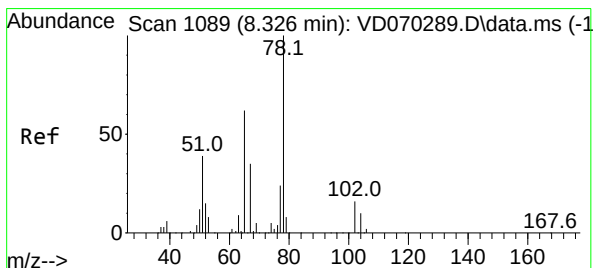
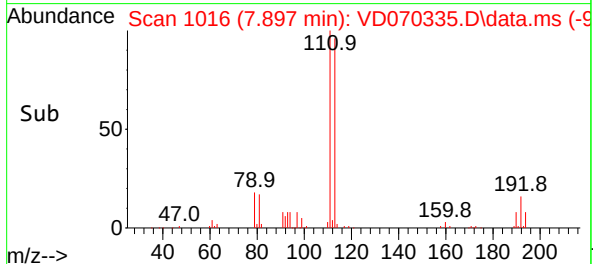
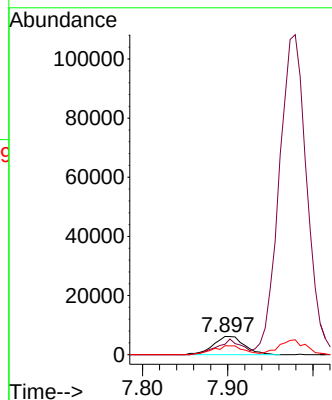
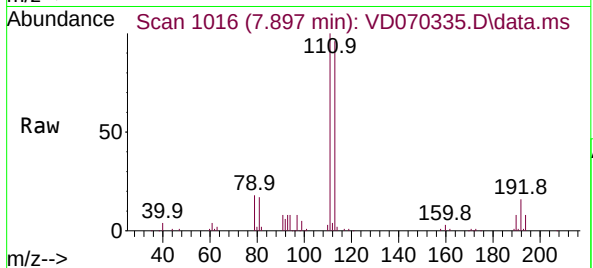




#32  
1,1,1-Trichloroethane  
Concen: 1.843 ug/l  
RT: 7.897 min Scan# 1016  
Delta R.T. -0.006 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

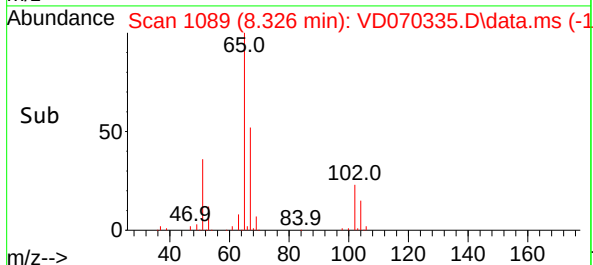
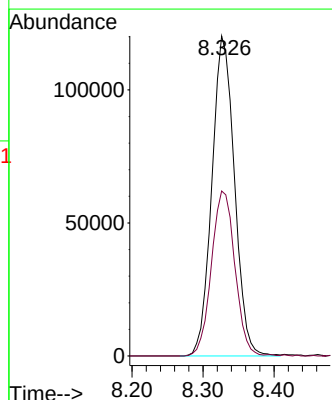
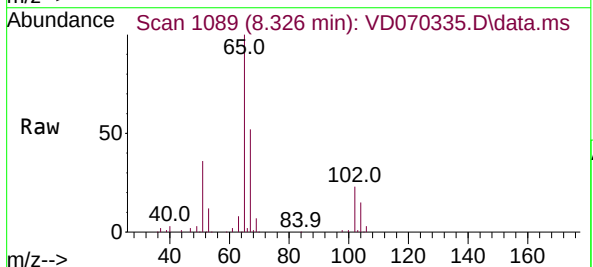
Instrument :  
MSVOA\_D  
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Tgt Ion: 97 Resp: 15699  
Ion Ratio Lower Upper  
97 100  
99 65.4 51.1 76.7  
61 48.3 31.4 47.0#

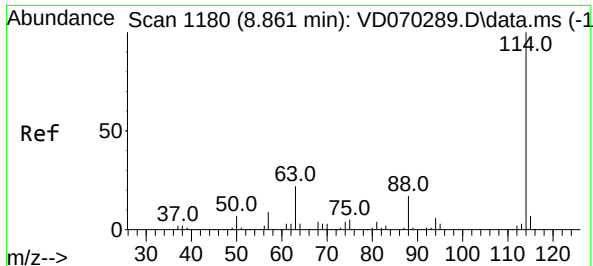


#33  
1,2-Dichloroethane-d4  
Concen: 54.279 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

Tgt Ion: 65 Resp: 265604  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 111.4



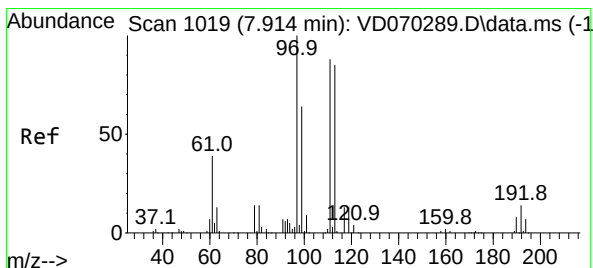
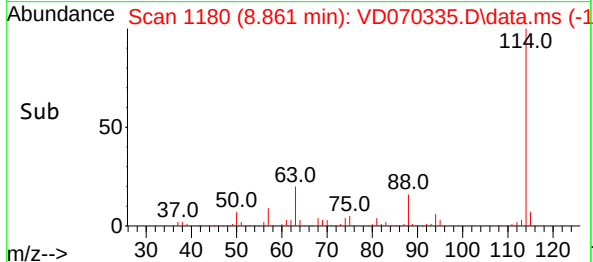
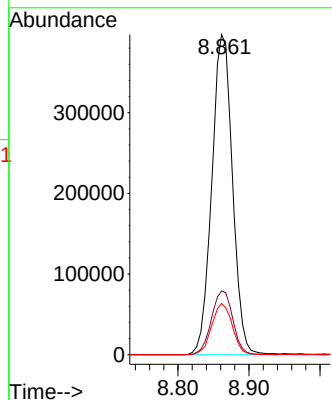
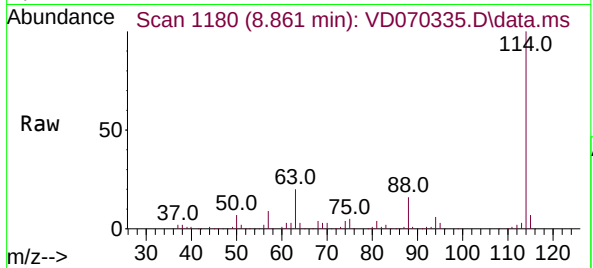




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

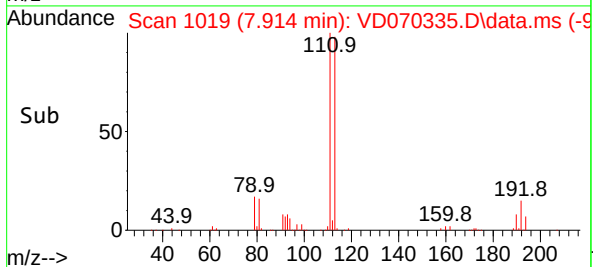
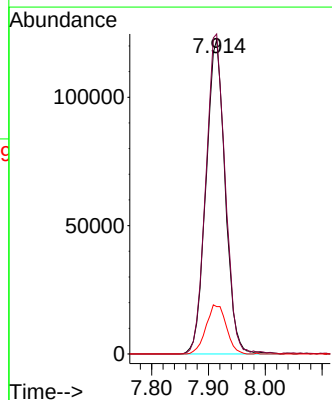
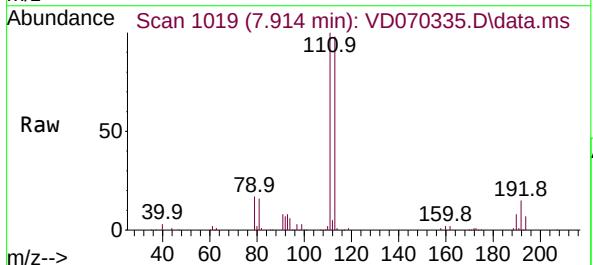
Instrument :  
MSVOA\_D  
ClientSampled :  
A010145

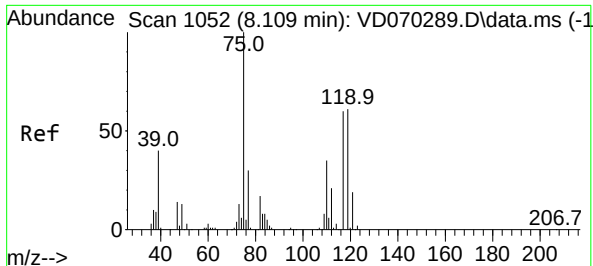
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 114   | Resp: | 801265 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 20.0  | 0.0   | 43.4   |
| 88        | 16.0  | 0.0   | 33.4   |



#35  
Dibromofluoromethane  
Concen: 50.163 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. 0.000 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 286106 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 102.9 | 81.4  | 122.2  |
| 192       | 16.5  | 13.0  | 19.6   |

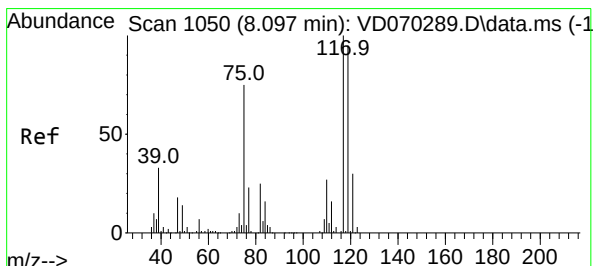
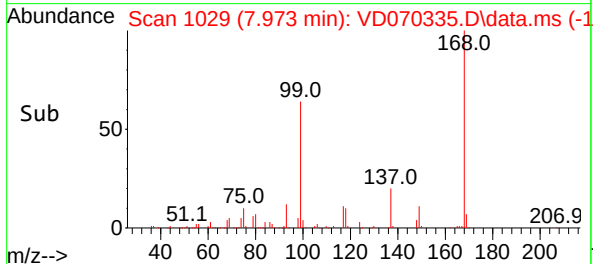
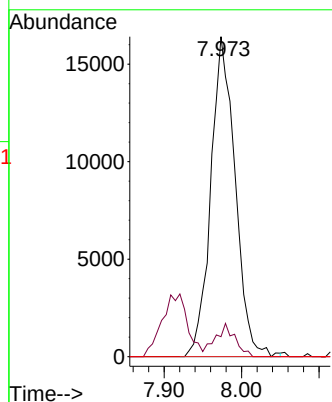
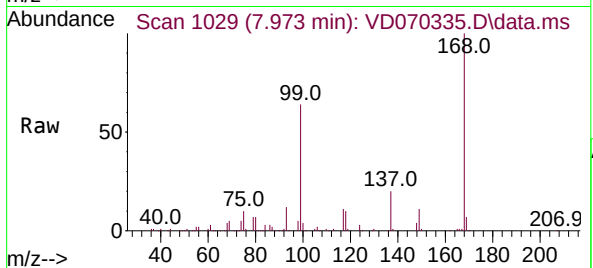




#36  
1,1-Dichloropropene  
Concen: 4.198 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.135 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

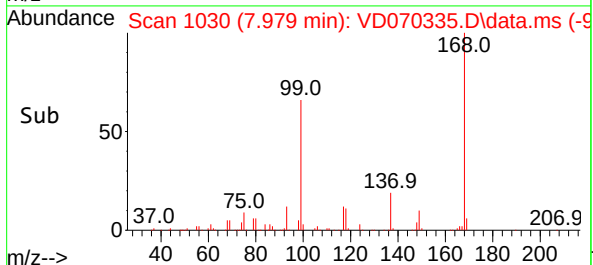
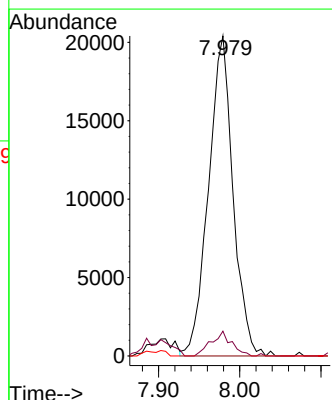
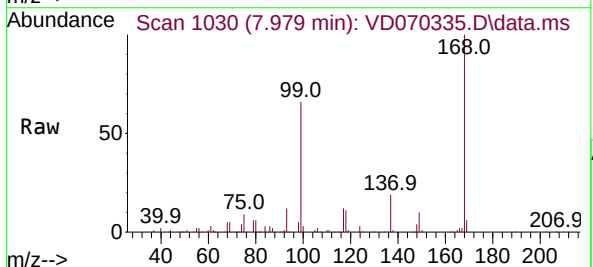
Instrument :  
MSVOA\_D  
ClientSampleId :  
A010145

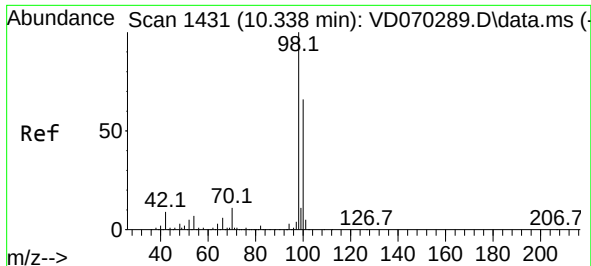
Tgt Ion: 75 Resp: 35956  
Ion Ratio Lower Upper  
75 100  
110 8.3 17.9 53.7#  
77 0.0 25.3 37.9#



#38  
Carbon Tetrachloride  
Concen: 5.061 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.118 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

Tgt Ion: 117 Resp: 42867  
Ion Ratio Lower Upper  
117 100  
119 7.8 76.1 114.1#  
121 0.0 23.8 35.6#

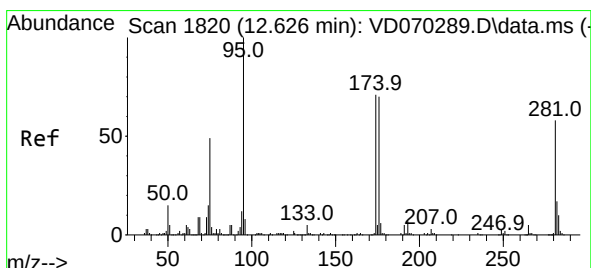
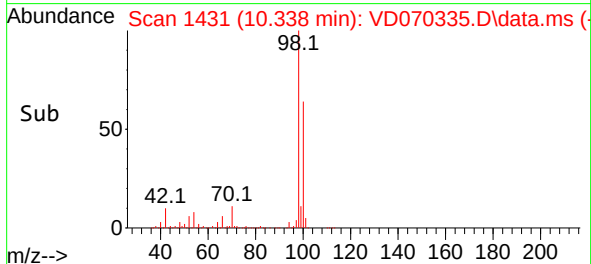
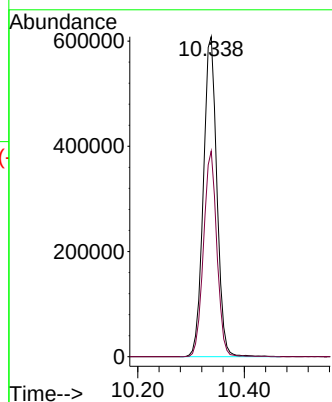
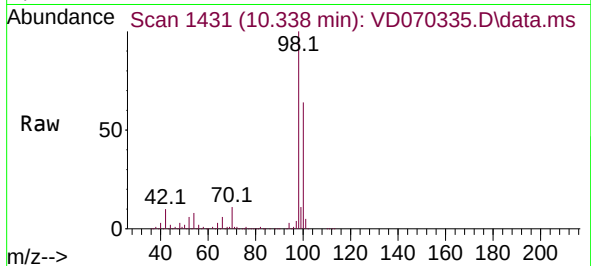




#50  
Toluene-d8  
Concen: 51.609 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. 0.000 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

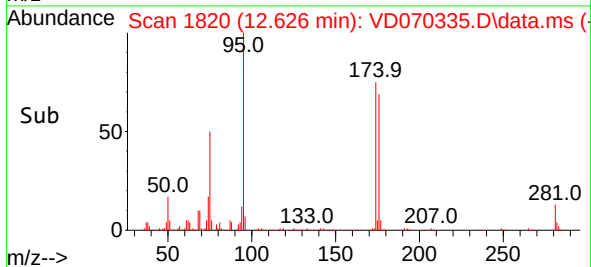
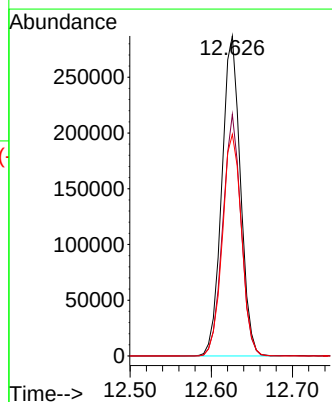
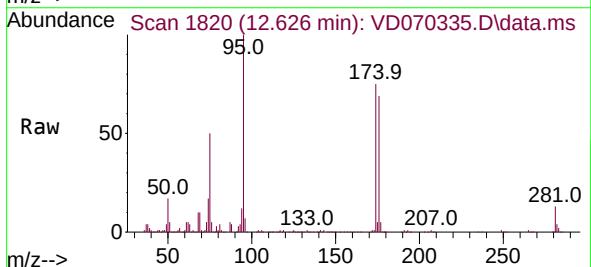
Instrument :  
MSVOA\_D  
ClientSampleId :  
A010145

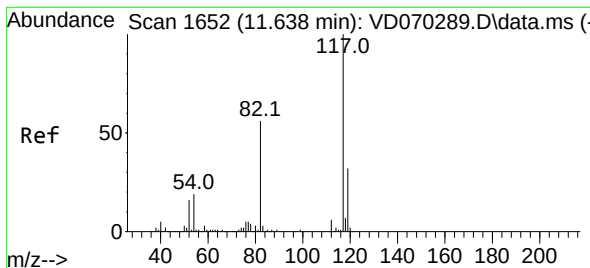
Tgt Ion: 98 Resp: 1068714  
Ion Ratio Lower Upper  
98 100  
100 63.5 52.0 78.0



#62  
4-Bromofluorobenzene  
Concen: 63.242 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.000 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

Tgt Ion: 95 Resp: 457695  
Ion Ratio Lower Upper  
95 100  
174 73.9 0.0 140.6  
176 71.3 0.0 137.4

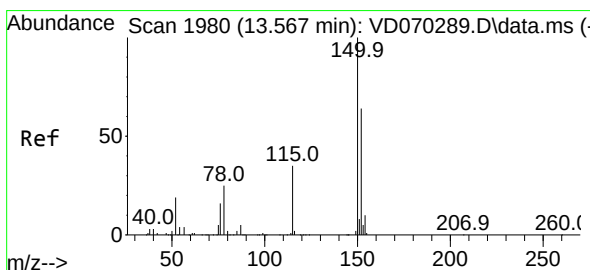
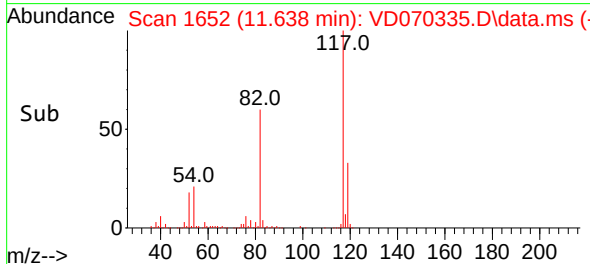
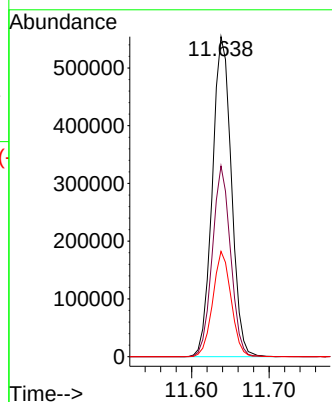
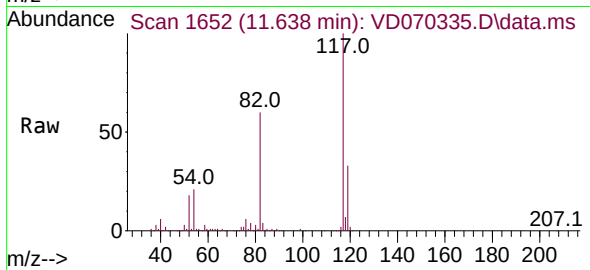




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

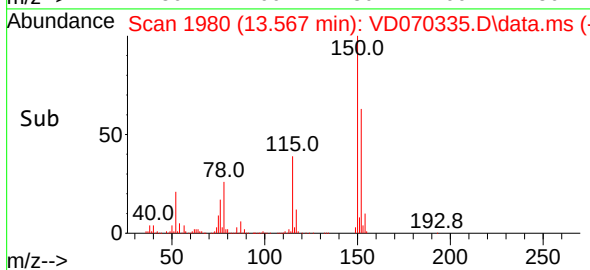
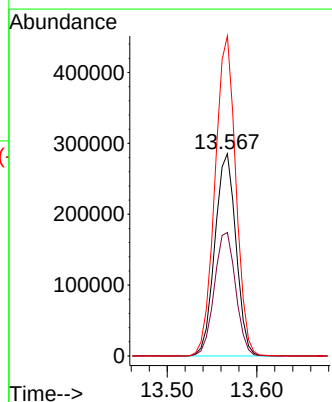
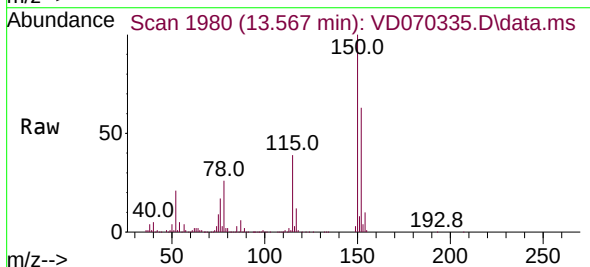
Instrument :  
MSVOA\_D  
ClientSampleId :  
A010145

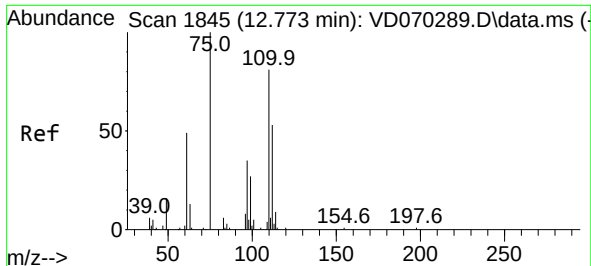
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 945316 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 59.6  | 45.0  | 67.4   |
| 119      | 32.9  | 25.2  | 37.8   |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. 0.000 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 152   | Resp: | 465666 |
| Ion      | Ratio | Lower | Upper  |
| 152      | 100   |       |        |
| 115      | 62.0  | 32.1  | 96.3   |
| 150      | 156.3 | 0.0   | 350.6  |

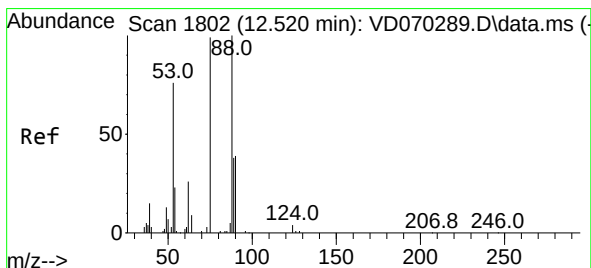
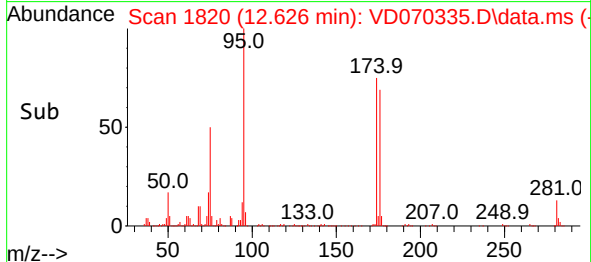
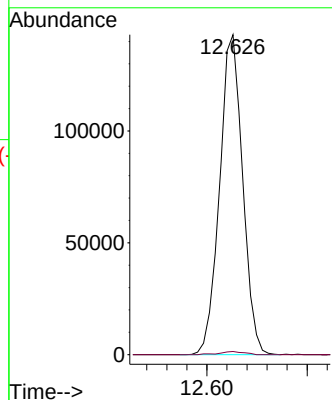
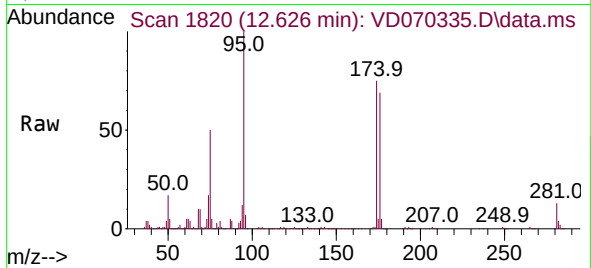




#76  
1,2,3-Trichloropropane  
Concen: 48.368 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

Instrument :  
MSVOA\_D  
ClientSampleId :  
A010145

Tgt Ion: 75 Resp: 227825  
Ion Ratio Lower Upper  
75 100  
77 1.1 174.9 524.7#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 121.190 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.106 min  
Lab File: VD070335.D  
Acq: 13 Sep 2021 19:19

Tgt Ion: 75 Resp: 227825  
Ion Ratio Lower Upper  
75 100  
53 0.2 64.2 96.2#  
89 0.1 35.6 53.4#

