

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD091421\  
 Data File : VD070348.D  
 Acq On : 14 Sep 2021 12:46  
 Operator : VA/SY  
 Sample : M3715-01  
 Misc : 5.08G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CL-2-091021

Quant Time: Sep 15 02:45:41 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

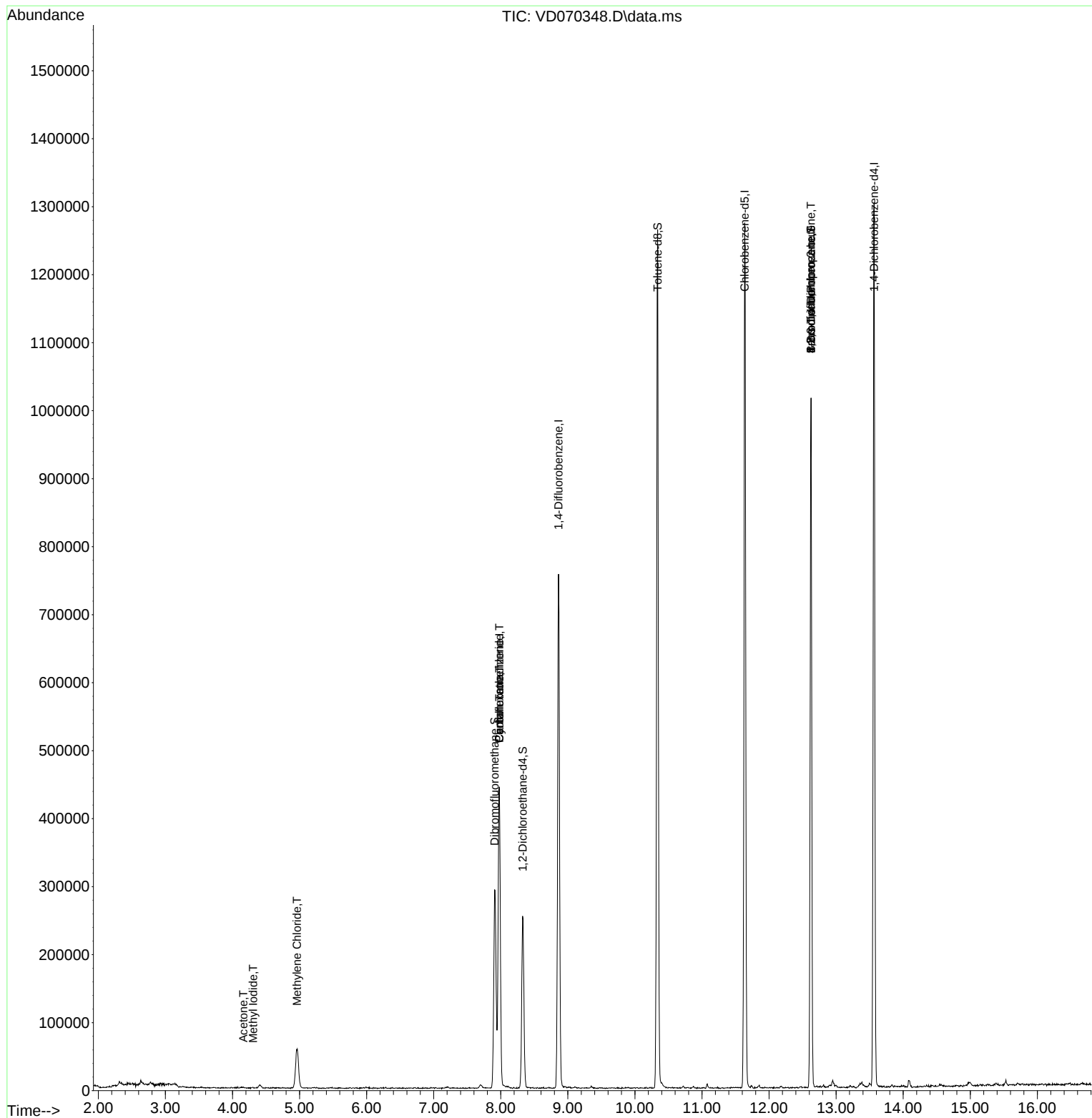
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.979  | 168   | 313207   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 639192   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 762833   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567 | 152   | 345571   | 50.000    | ug/l   | 0.00     |
|                               |        |       |          |           |        |          |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 201032   | 49.987    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 99.980%  |
| 35) Dibromofluoromethane      | 7.908  | 113   | 219731   | 48.294    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 96.580%  |
| 50) Toluene-d8                | 10.338 | 98    | 858218   | 51.952    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 103.900% |
| 62) 4-Bromofluorobenzene      | 12.626 | 95    | 348367   | 60.341    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 120.680% |
|                               |        |       |          |           |        |          |
| Target Compounds              |        |       |          |           |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.991  | 85    | 954      | Below Cal |        | 81       |
| 3) Chloromethane              | 2.209  | 50    | 1476     | Below Cal |        | 97       |
| 5) Bromomethane               | 2.773  | 94    | 2346     | Below Cal |        | 90       |
| 6) Chloroethane               | 2.926  | 64    | 686      | Below Cal | #      | 43       |
| 10) Methyl Iodide             | 4.309  | 142   | 1333     | 1.366     | ug/l # | 86       |
| 16) Acetone                   | 4.162  | 43    | 1115     | 1.553     | ug/l # | 75       |
| 18) Methyl Acetate            | 4.685  | 43    | 119      | Below Cal | #      | 48       |
| 20) Methylene Chloride        | 4.961  | 84    | 45232    | 3.329     | ug/l   | 94       |
| 31) Cyclohexane               | 7.979  | 56    | 8527     | 1.231     | ug/l # | 1        |
| 38) Carbon Tetrachloride      | 7.979  | 117   | 35011    | 5.181     | ug/l # | 18       |
| 71) Bromoform                 | 12.626 | 173   | 3421     | 1.196     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75    | 169997   | 48.633    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75    | 169997   | 121.855   | ug/l # | 17       |
| -----                         |        |       |          |           |        |          |

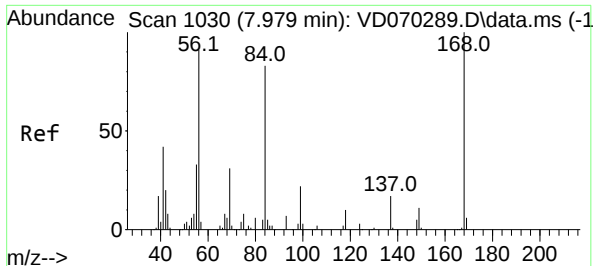
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : M3715-01  
Misc : 5.08G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampled :  
CL-2-091021

Quant Time: Sep 15 02:45:41 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

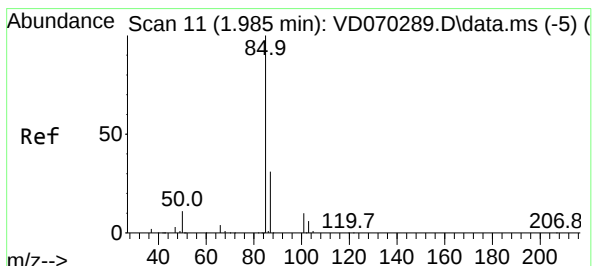
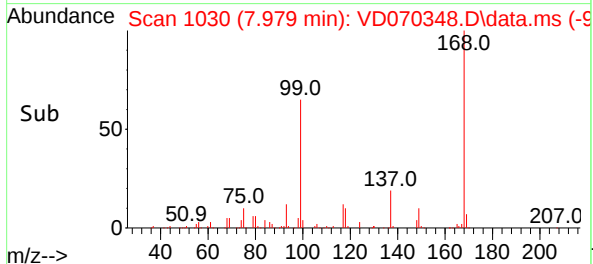
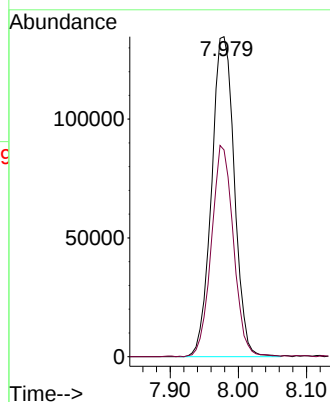
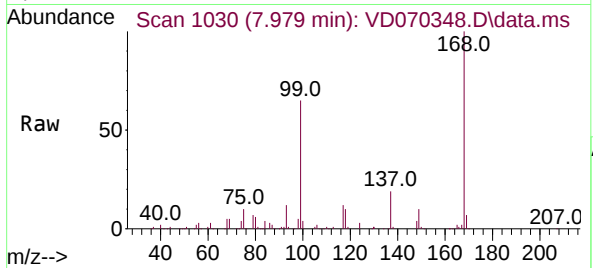




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.000 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

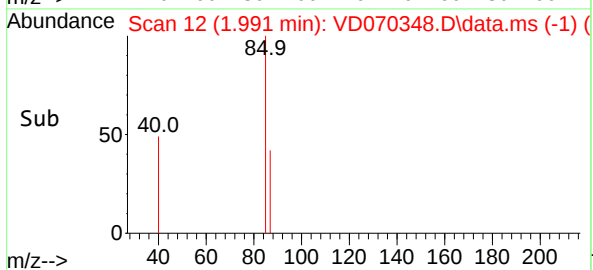
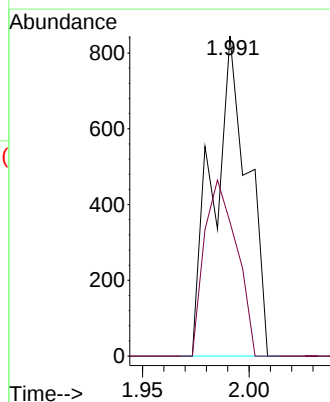
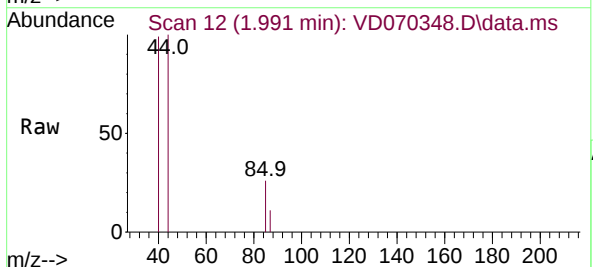
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-2-091021

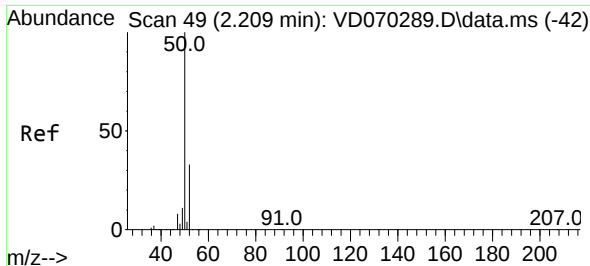
Tgt Ion:168 Resp: 313207  
Ion Ratio Lower Upper  
168 100  
99 64.5 50.8 76.2



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.991 min Scan# 12  
Delta R.T. 0.006 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

Tgt Ion: 85 Resp: 954  
Ion Ratio Lower Upper  
85 100  
87 41.9 15.6 46.8

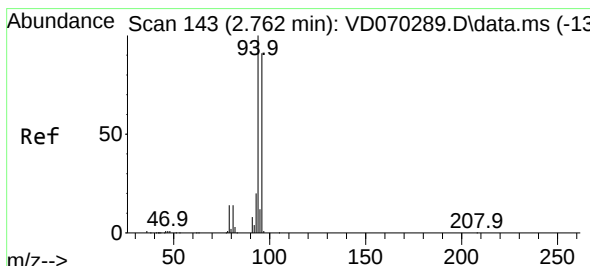
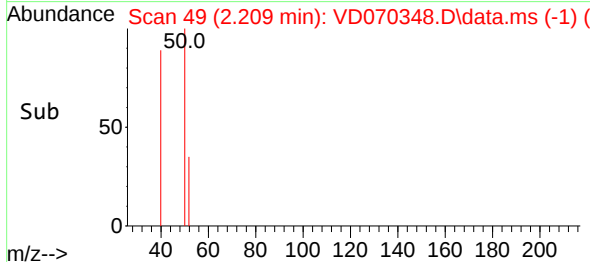
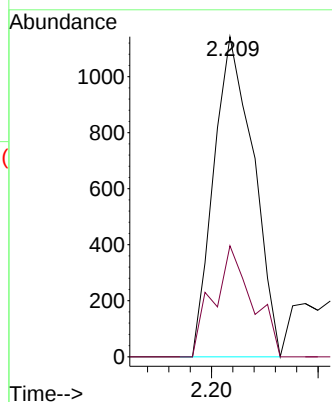
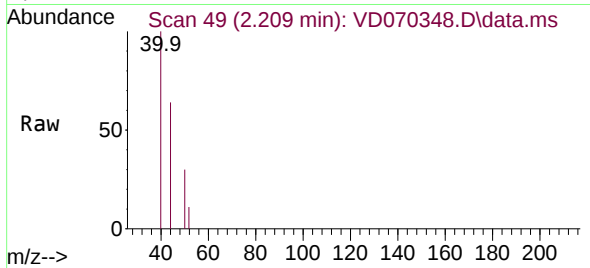




#3  
Chloromethane  
Concen: Below Cal  
RT: 2.209 min Scan# 49  
Delta R.T. -0.000 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

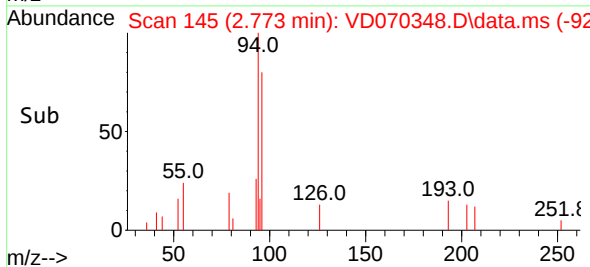
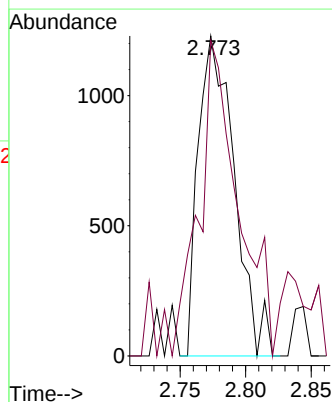
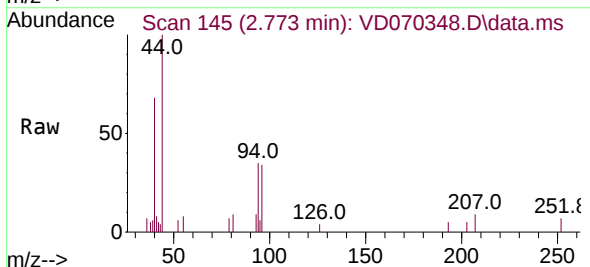
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-2-091021

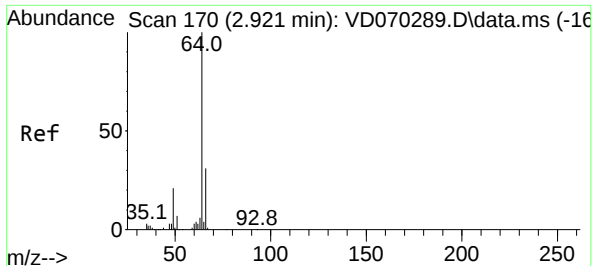
Tgt Ion: 50 Resp: 1476  
Ion Ratio Lower Upper  
50 100  
52 34.6 26.2 39.2



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.773 min Scan# 145  
Delta R.T. 0.011 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

Tgt Ion: 94 Resp: 2346  
Ion Ratio Lower Upper  
94 100  
96 82.3 73.0 109.6

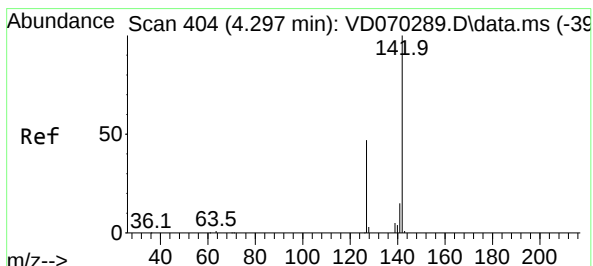
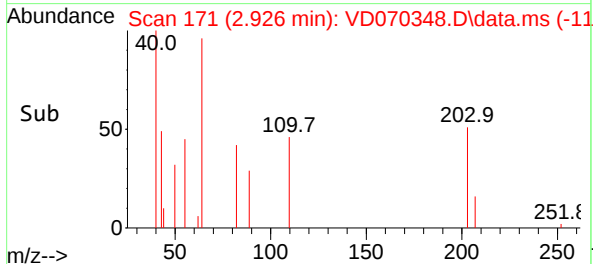
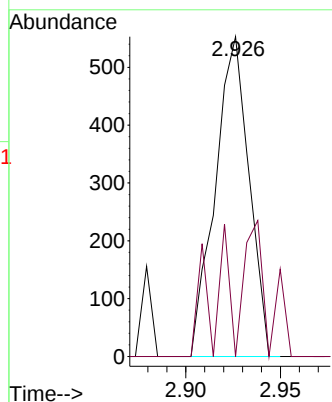
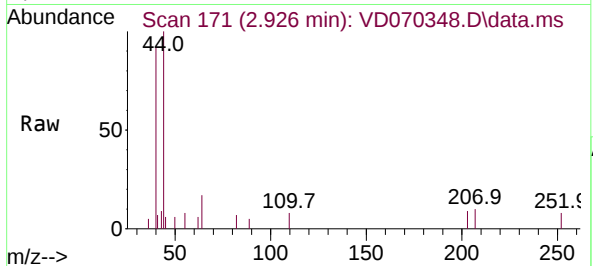




#6  
Chloroethane  
Concen: Below Cal  
RT: 2.926 min Scan# 171  
Delta R.T. 0.005 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

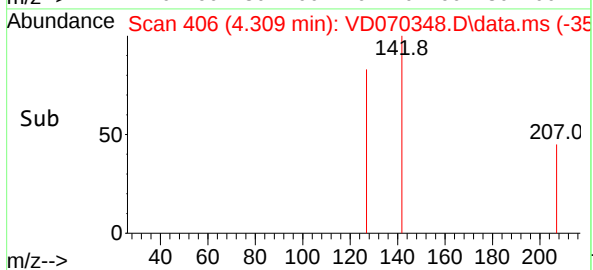
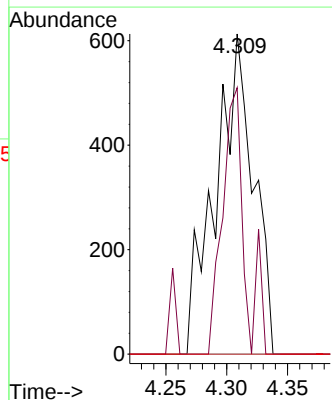
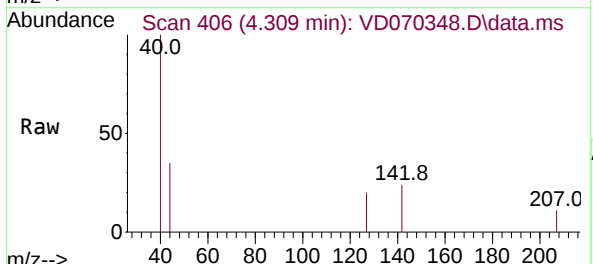
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-2-091021

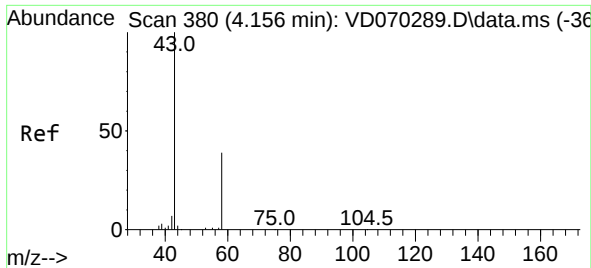
Tgt Ion: 64 Resp: 686  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.0 37.4#



#10  
Methyl Iodide  
Concen: 1.366 ug/l  
RT: 4.309 min Scan# 406  
Delta R.T. 0.012 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

Tgt Ion: 142 Resp: 1333  
Ion Ratio Lower Upper  
142 100  
127 41.6 36.9 55.3  
141 0.0 11.8 17.6#

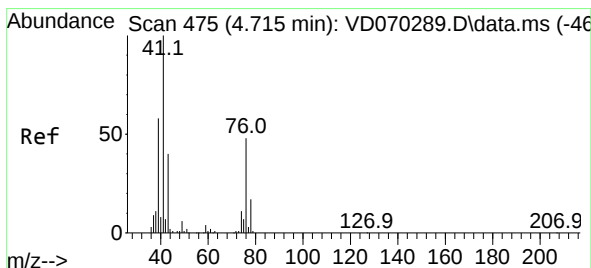
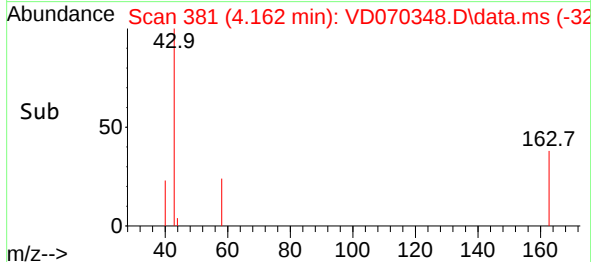
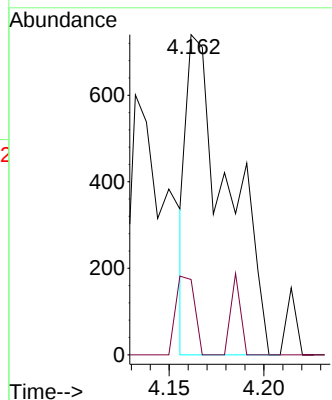
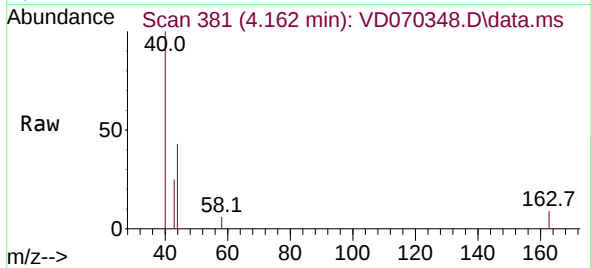




#16  
Acetone  
Concen: 1.553 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. 0.006 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

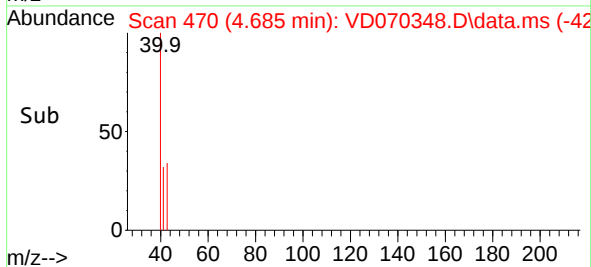
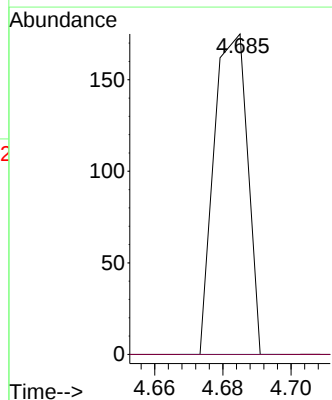
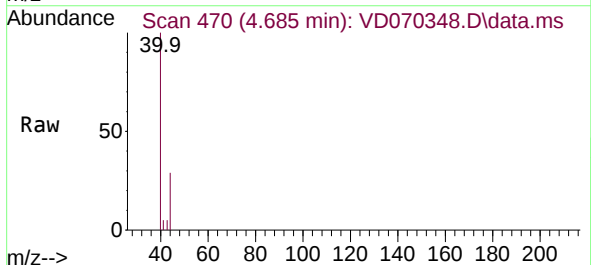
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-2-091021

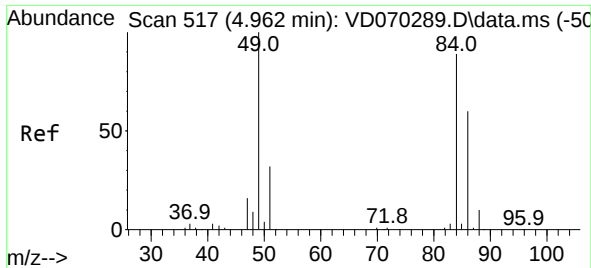
Tgt Ion: 43 Resp: 1115  
Ion Ratio Lower Upper  
43 100  
58 23.5 30.9 46.3#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.685 min Scan# 470  
Delta R.T. -0.030 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

Tgt Ion: 43 Resp: 119  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.6 32.4#

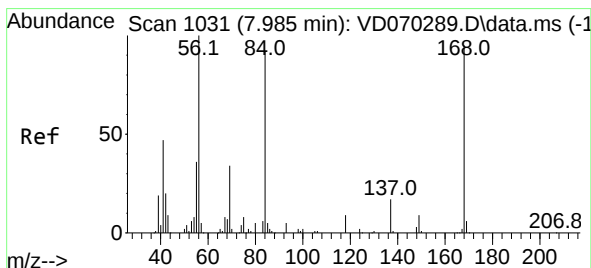
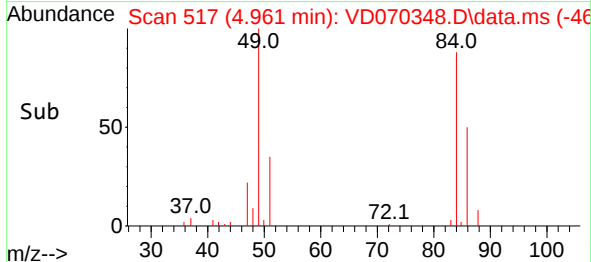
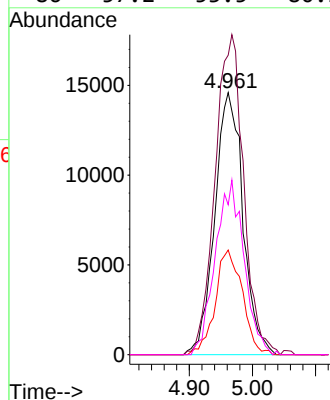
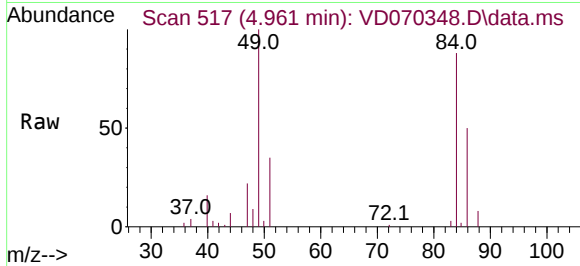




#20  
Methylene Chloride  
Concen: 3.329 ug/l  
RT: 4.961 min Scan# 517  
Delta R.T. -0.001 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

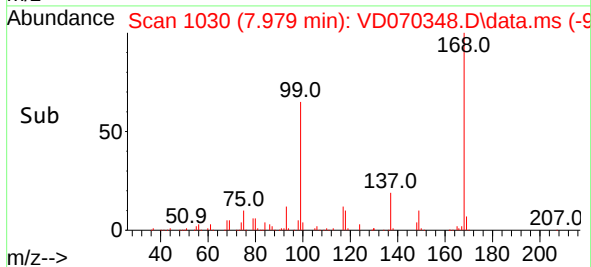
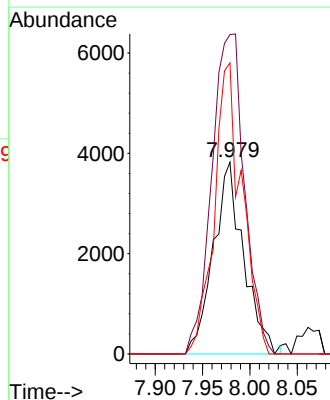
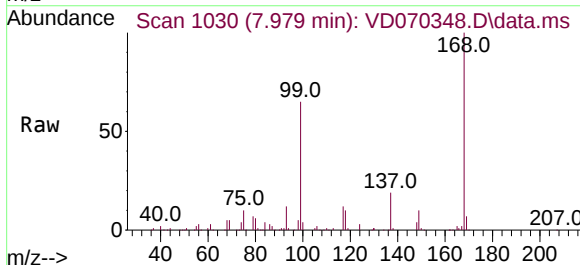
Instrument :  
MSVOA\_D  
ClientSampleId :  
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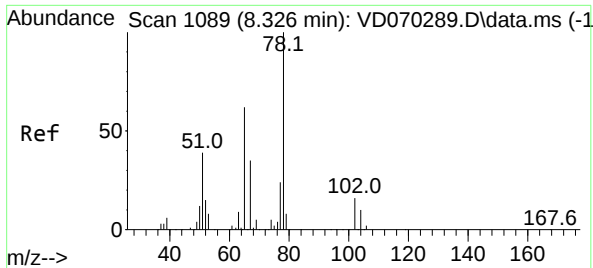
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|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 45232 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 114.3 | 89.6  | 134.4 |
| 51       | 39.9  | 28.6  | 43.0  |
| 86       | 57.2  | 53.5  | 80.3  |



#31  
Cyclohexane  
Concen: 1.231 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 8527   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 166.6 | 26.9  | 40.3#  |
| 84       | 151.9 | 73.6  | 110.4# |

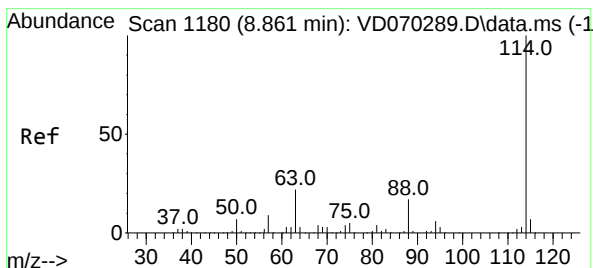
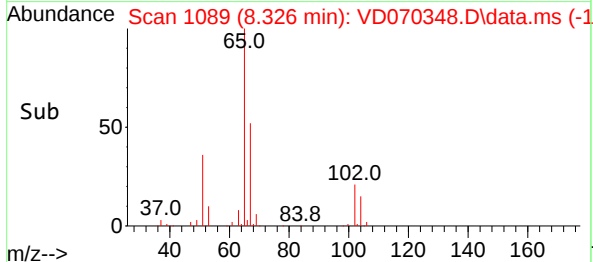
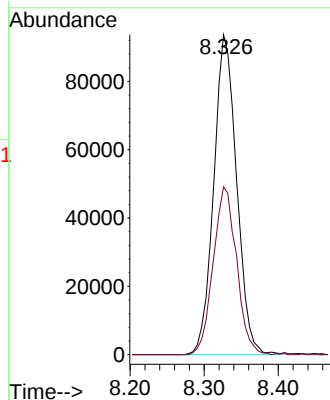
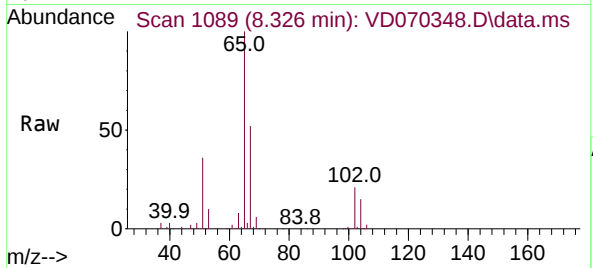




#33  
1,2-Dichloroethane-d4  
Concen: 49.987 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. -0.000 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

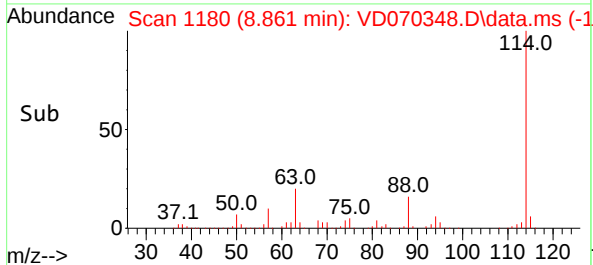
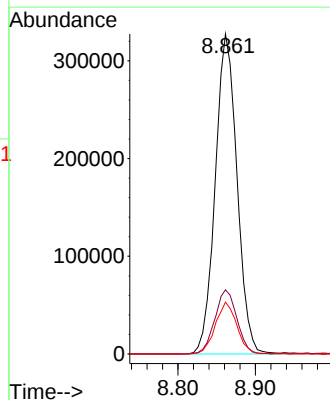
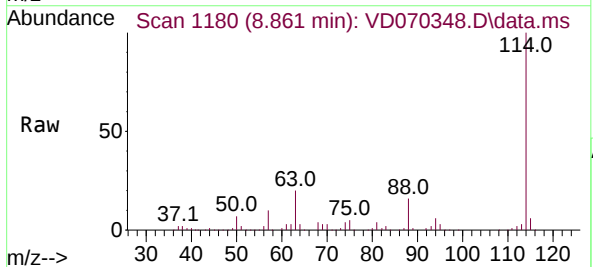
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-2-091021

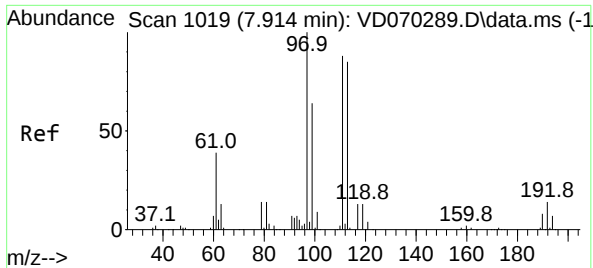
Tgt Ion: 65 Resp: 201032  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 111.4



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. -0.000 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

Tgt Ion:114 Resp: 639192  
Ion Ratio Lower Upper  
114 100  
63 20.0 0.0 43.4  
88 16.2 0.0 33.4

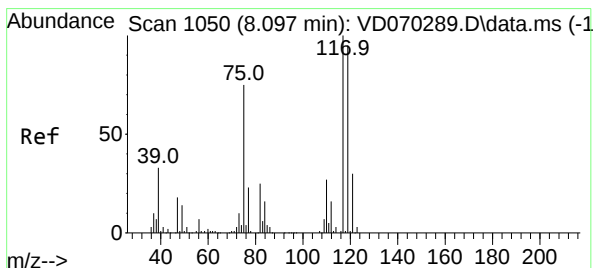
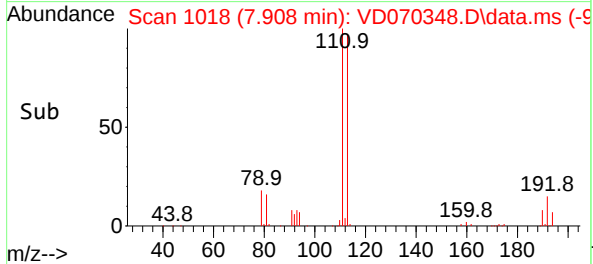
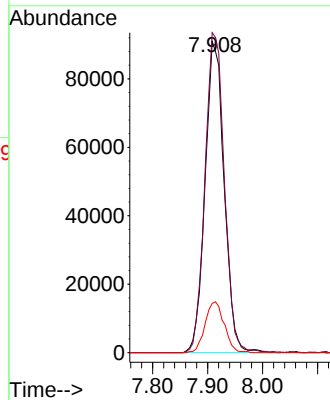
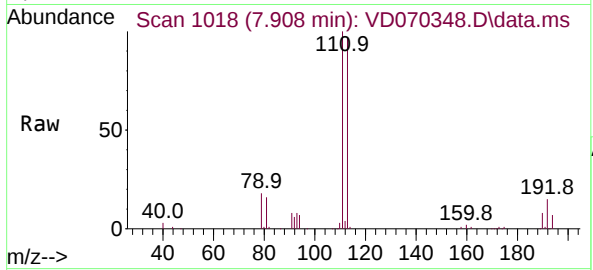




#35  
Dibromofluoromethane  
Concen: 48.294 ug/l  
RT: 7.908 min Scan# 1018  
Delta R.T. -0.006 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

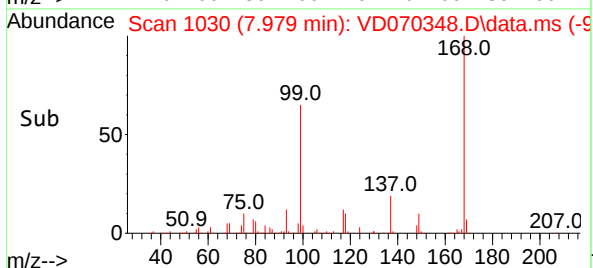
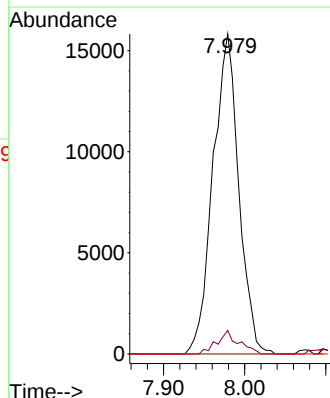
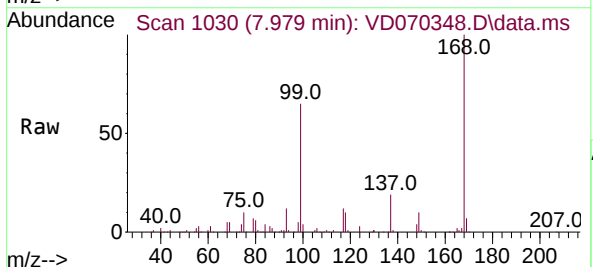
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-2-091021

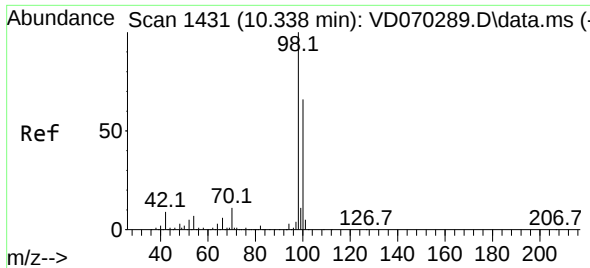
Tgt Ion:113 Resp: 219731  
Ion Ratio Lower Upper  
113 100  
111 104.1 81.4 122.2  
192 16.4 13.0 19.6



#38  
Carbon Tetrachloride  
Concen: 5.181 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.118 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

Tgt Ion:117 Resp: 35011  
Ion Ratio Lower Upper  
117 100  
119 7.3 76.1 114.1#  
121 0.0 23.8 35.6#

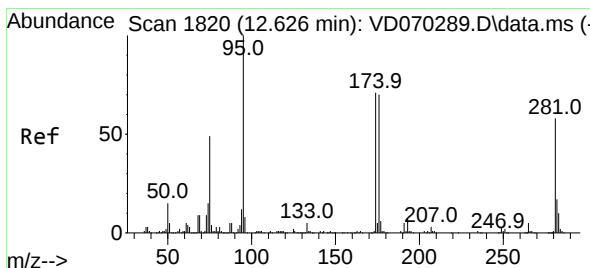
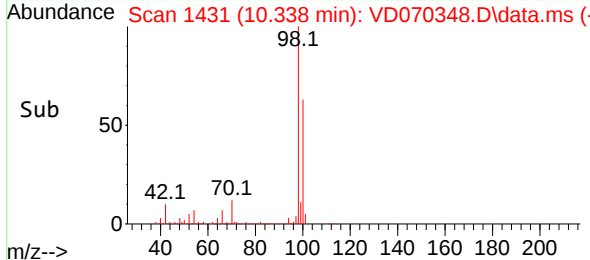
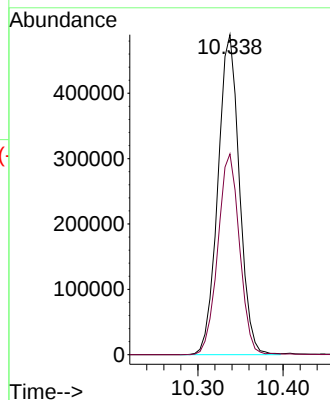
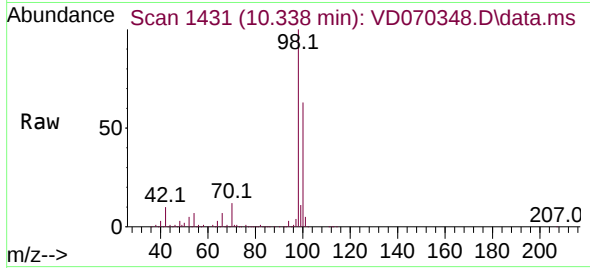




#50  
Toluene-d8  
Concen: 51.952 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

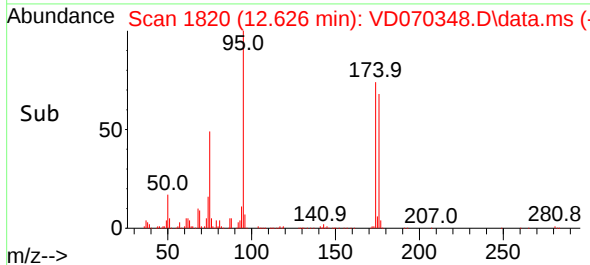
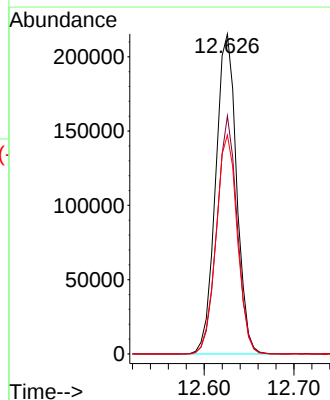
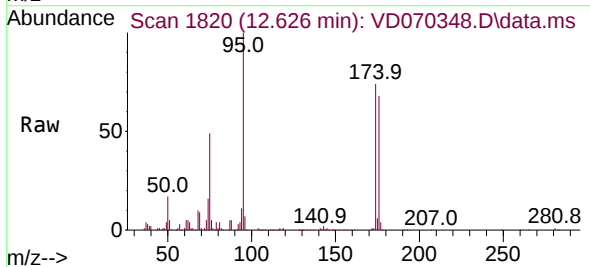
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-2-091021

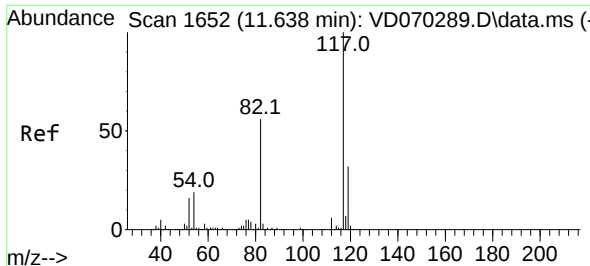
Tgt Ion: 98 Resp: 858218  
Ion Ratio Lower Upper  
98 100  
100 63.5 52.0 78.0



#62  
4-Bromofluorobenzene  
Concen: 60.341 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

Tgt Ion: 95 Resp: 348367  
Ion Ratio Lower Upper  
95 100  
174 72.2 0.0 140.6  
176 69.4 0.0 137.4

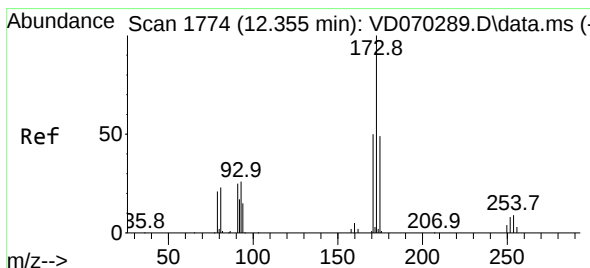
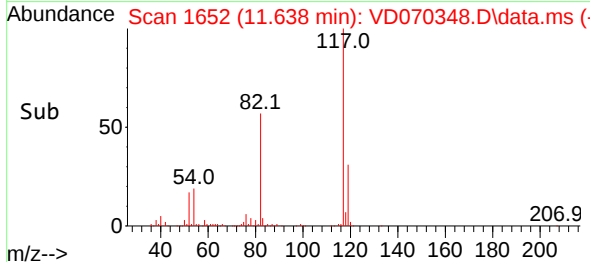
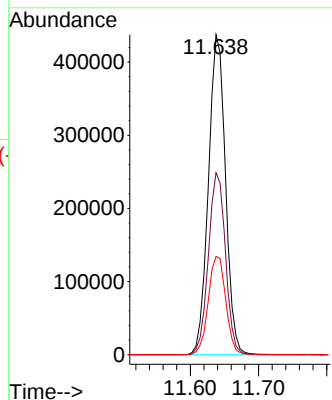
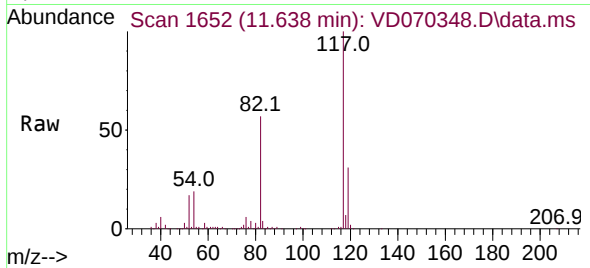




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

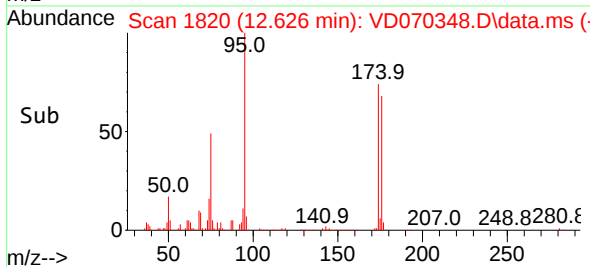
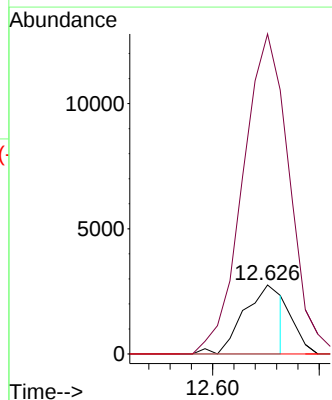
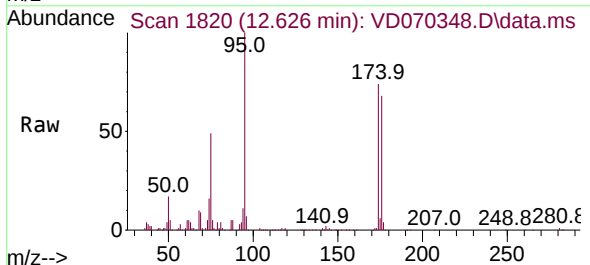
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-2-091021

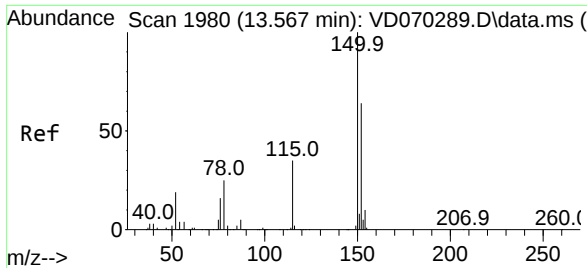
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 762833 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 56.8  | 45.0  | 67.4   |
| 119      | 30.7  | 25.2  | 37.8   |



#71  
Bromoform  
Concen: 1.196 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.270 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 173   | Resp: | 3421  |
| Ion      | Ratio | Lower | Upper |
| 173      | 100   |       |       |
| 175      | 473.3 | 25.1  | 75.2# |
| 254      | 0.0   | 0.1   | 0.1#  |

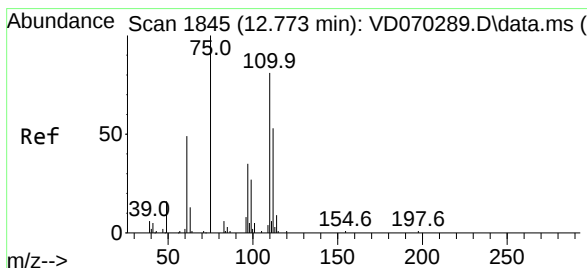
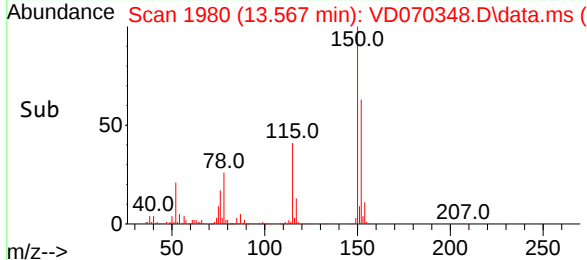
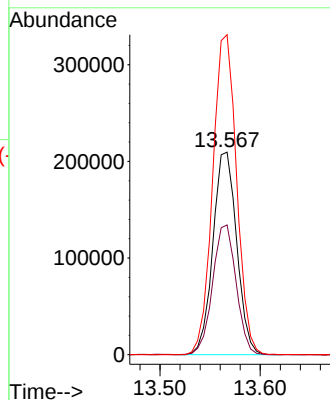
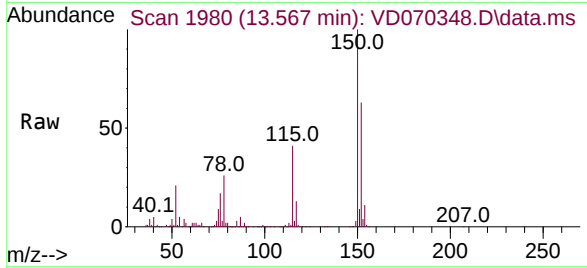




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. -0.000 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

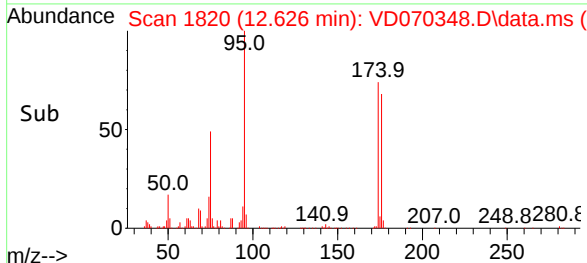
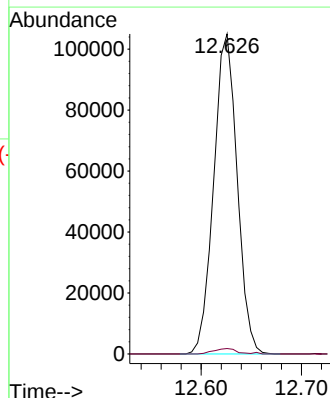
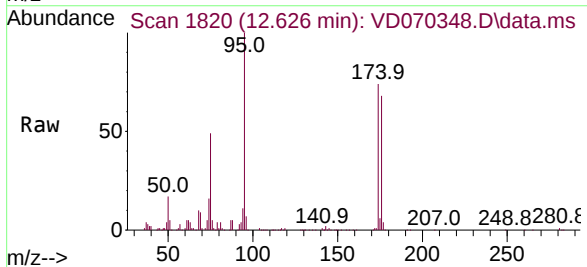
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-2-091021

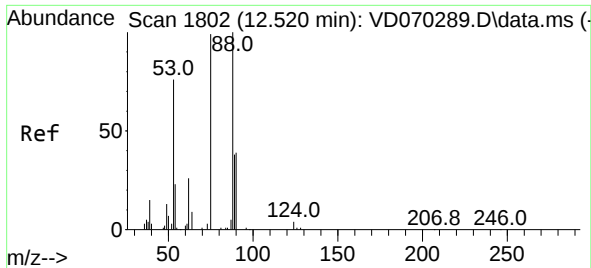
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 152   | Resp: | 345571 |
| Ion      | Ratio | Lower | Upper  |
| 152      | 100   |       |        |
| 115      | 63.4  | 32.1  | 96.3   |
| 150      | 158.7 | 0.0   | 350.6  |



#76  
1,2,3-Trichloropropane  
Concen: 48.633 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD070348.D  
Acq: 14 Sep 2021 12:46

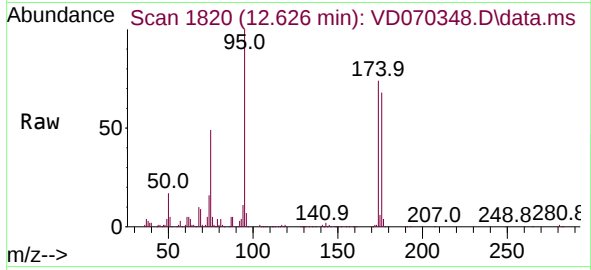
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 169997 |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 77       | 1.8   | 174.9 | 524.7# |





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 121.855 ug/l  
 RT: 12.626 min Scan# 1820  
 Delta R.T. 0.106 min  
 Lab File: VD070348.D  
 Acq: 14 Sep 2021 12:46

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CL-2-091021



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 0.2   | 64.2  | 96.2# |
| 89      | 0.0   | 35.6  | 53.4# |

