

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD081121\  
 Data File : VD070023.D  
 Acq On : 11 Aug 2021 15:06  
 Operator : VA/SY  
 Sample : M3333-03RE  
 Misc : 4.09G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 124030RE

Quant Time: Aug 12 05:29:36 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 23 04:51:13 2021  
 Response via : Initial Calibration

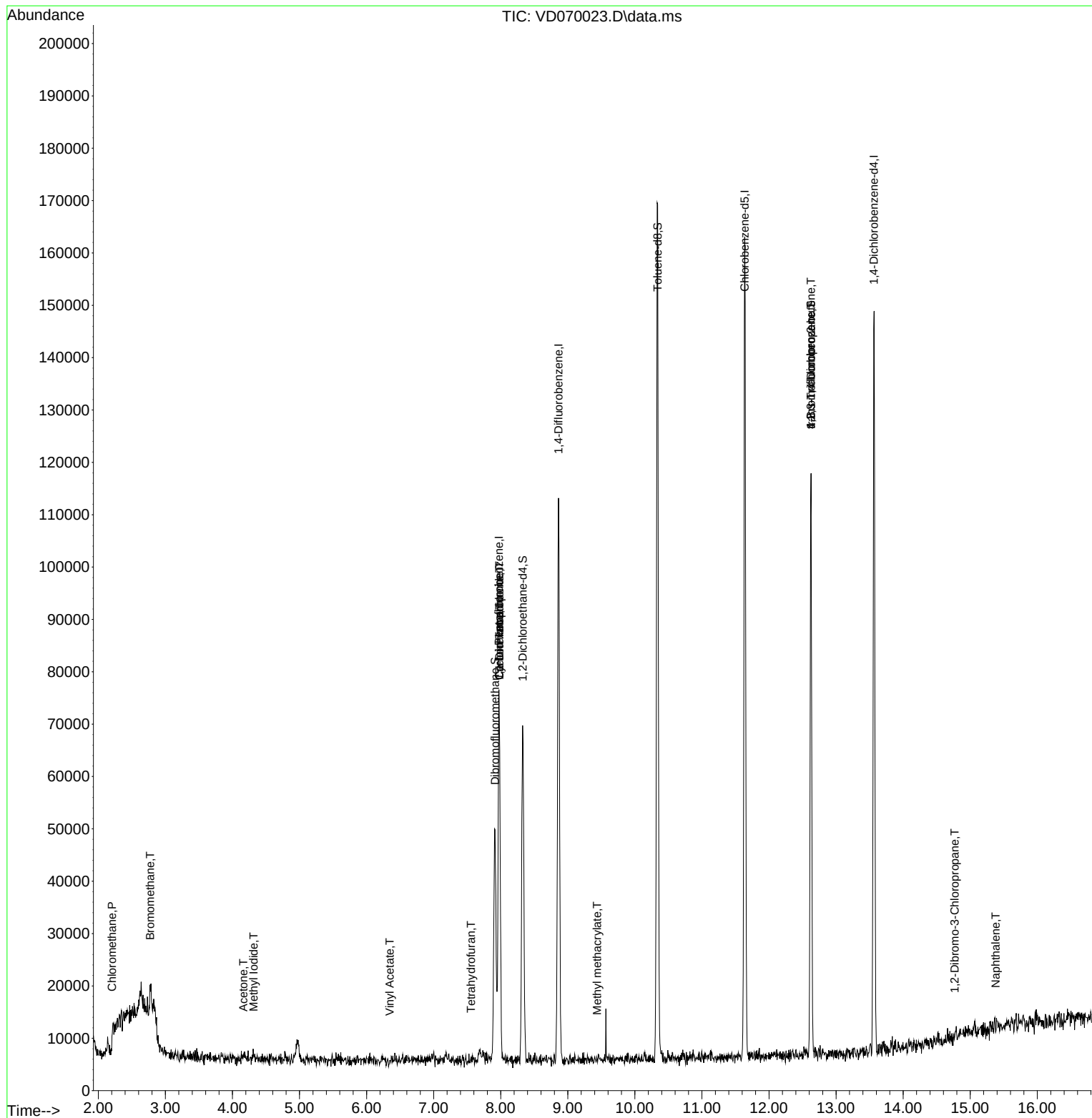
| Compound                      | R.T.           | QIon | Response             | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------------------|-----------|--------|----------|
| -----                         |                |      |                      |           |        |          |
| Internal Standards            |                |      |                      |           |        |          |
| 1) Pentafluorobenzene         | 7.973          | 168  | 48028                | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 92979                | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 93919                | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561         | 152  | 38073                | 50.000    | ug/l   | 0.00     |
|                               |                |      |                      |           |        |          |
| System Monitoring Compounds   |                |      |                      |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 49562                | 89.727    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 179.460%# |           |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 33434                | 57.041    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 114.080%  |           |        |          |
| 50) Toluene-d8                | 10.338         | 98   | 117209               | 51.860    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 103.720%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 38354                | 50.777    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 101.560%  |           |        |          |
|                               |                |      |                      |           |        |          |
| Target Compounds              |                |      | Qvalue               |           |        |          |
| 3) Chloromethane              | 2.203          | 50   | 1403                 | 1.913     | ug/l # | 74       |
| 5) Bromomethane               | 2.773          | 94   | 2864                 | 4.556     | ug/l   | 95       |
| 10) Methyl Iodide             | 4.315          | 142  | 1482                 | 5.773     | ug/l # | 87       |
| 16) Acetone                   | 4.162          | 43   | 1011                 | 10.132    | ug/l # | 38       |
| 20) Methylene Chloride        | 4.979          | 84   | 3298                 | Below Cal | #      | 73       |
| 23) Vinyl Acetate             | 6.344          | 43   | 63                   | 20.409    | ug/l # | 71       |
| 29) Tetrahydrofuran           | 7.556          | 42   | 251                  | 2.867     | ug/l # | 32       |
| 31) Cyclohexane               | 7.979          | 56   | 1644                 | 1.523     | ug/l # | 22       |
| 36) 1,1-Dichloropropene       | 7.979          | 75   | 4701                 | 4.685     | ug/l # | 43       |
| 38) Carbon Tetrachloride      | 7.979          | 117  | 5364                 | 5.852     | ug/l # | 12       |
| 48) Methyl methacrylate       | 9.438          | 41   | 63                   | 2.917     | ug/l # | 70       |
| 76) 1,2,3-Trichloropropane    | 12.626         | 75   | 18444                | 45.576    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626         | 75   | 18444                | 138.265   | ug/l # | 16       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.767         | 75   | 88                   | 1.119     | ug/l # | 7        |
| 95) Naphthalene               | 15.379         | 128  | 203                  | 5.145     | ug/l # | 69       |
| -----                         |                |      |                      |           |        |          |

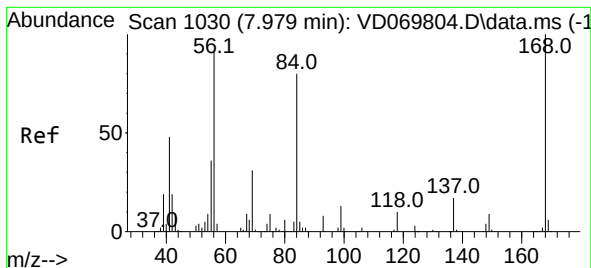
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD081121\  
Data File : VD070023.D  
Acq On : 11 Aug 2021 15:06  
Operator : VA/SY  
Sample : M3333-03RE  
Misc : 4.09G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
124030RE

Quant Time: Aug 12 05:29:36 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 23 04:51:13 2021  
Response via : Initial Calibration

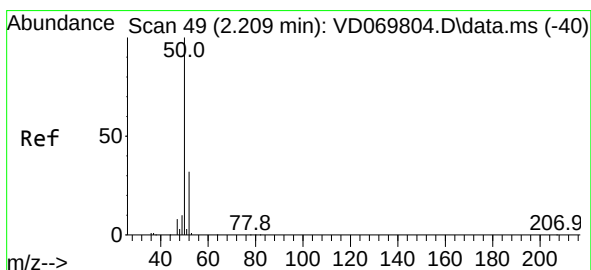
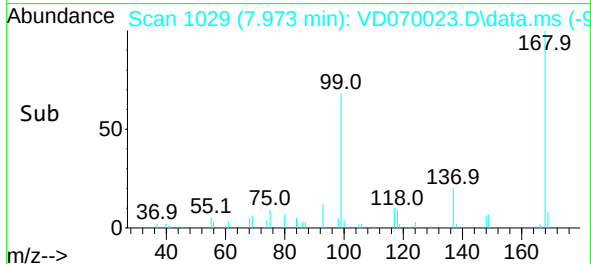
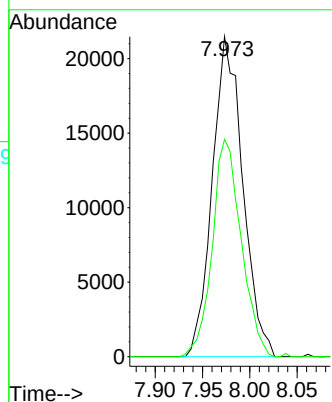
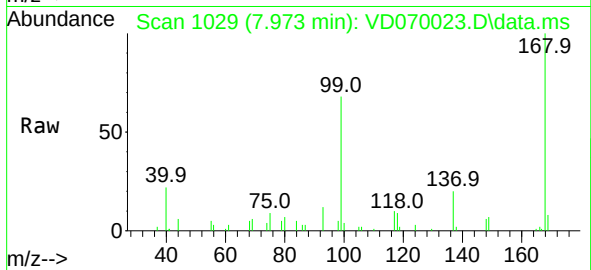




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.006 min  
Lab File: VD070023.D  
Acq: 11 Aug 2021 15:06

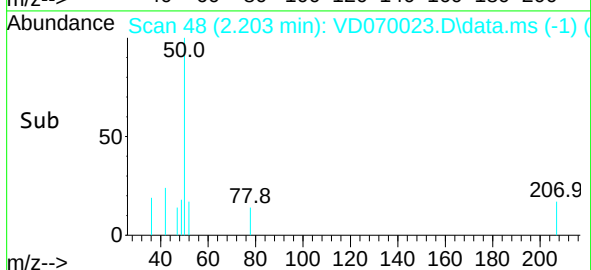
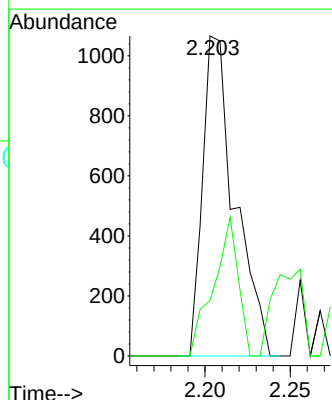
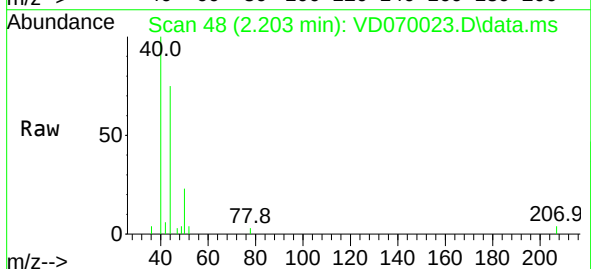
Instrument :  
MSVOA\_D  
ClientSampleId :  
124030RE

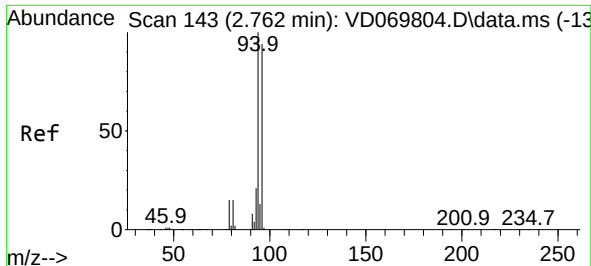
Tgt Ion:168 Resp: 48028  
Ion Ratio Lower Upper  
168 100  
99 67.9 51.1 76.7



#3  
Chloromethane  
Concen: 1.913 ug/l  
RT: 2.203 min Scan# 48  
Delta R.T. -0.006 min  
Lab File: VD070023.D  
Acq: 11 Aug 2021 15:06

Tgt Ion: 50 Resp: 1403  
Ion Ratio Lower Upper  
50 100  
52 17.4 25.7 38.5#

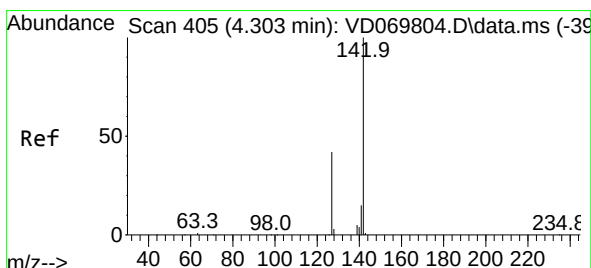
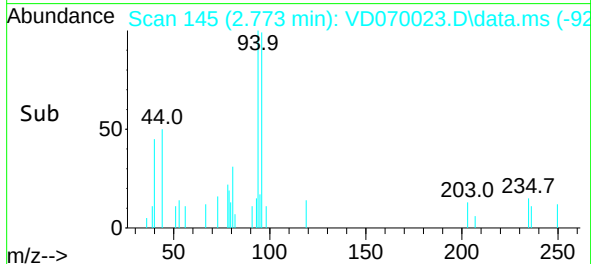
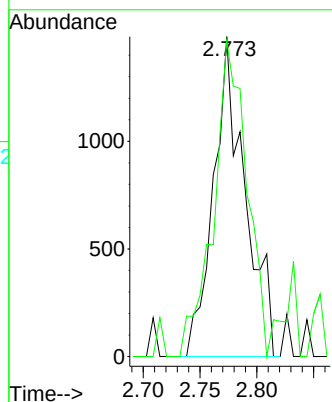
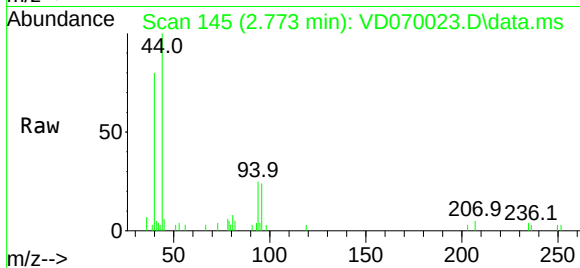




#5  
Bromomethane  
Concen: 4.556 ug/l  
RT: 2.773 min Scan# 145  
Delta R.T. 0.011 min  
Lab File: VD070023.D  
Acq: 11 Aug 2021 15:06

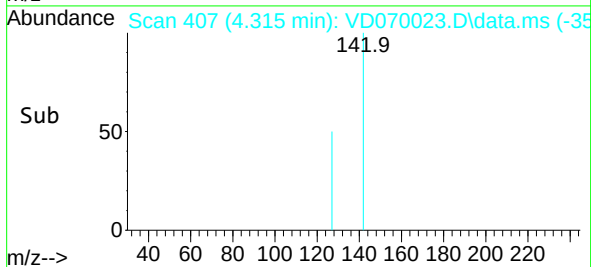
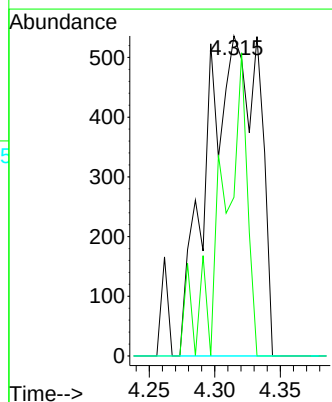
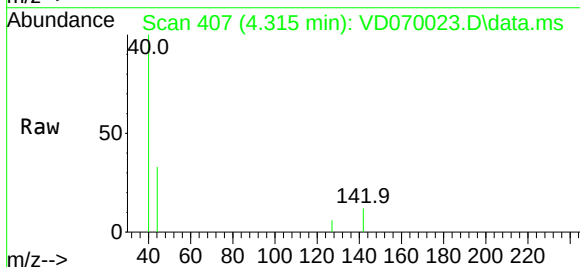
Instrument :  
MSVOA\_D  
ClientSampleId :  
124030RE

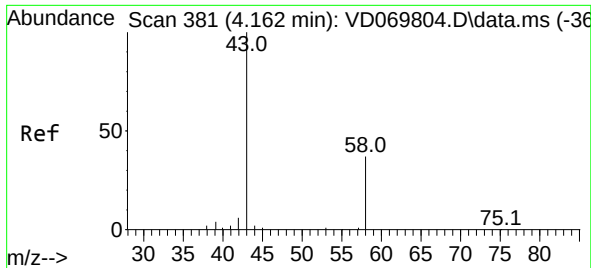
Tgt Ion: 94 Resp: 2864  
Ion Ratio Lower Upper  
94 100  
96 98.8 74.8 112.2



#10  
Methyl Iodide  
Concen: 5.773 ug/l  
RT: 4.315 min Scan# 407  
Delta R.T. 0.012 min  
Lab File: VD070023.D  
Acq: 11 Aug 2021 15:06

Tgt Ion: 142 Resp: 1482  
Ion Ratio Lower Upper  
142 100  
127 41.1 35.7 53.5  
141 0.0 12.0 18.0#

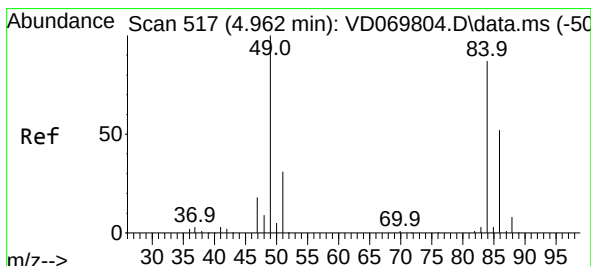
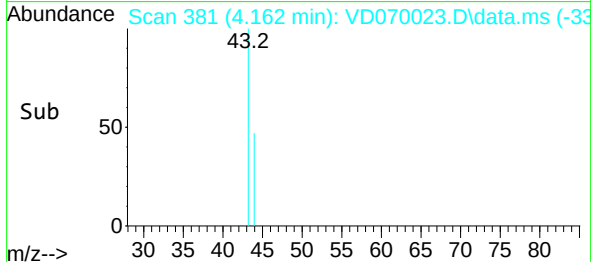
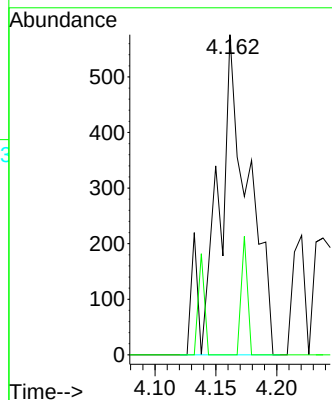
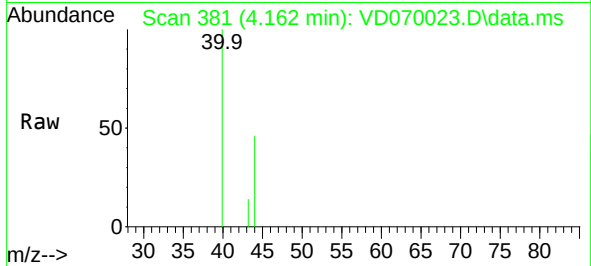




#16  
Acetone  
Concen: 10.132 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. -0.000 min  
Lab File: VD070023.D  
Acq: 11 Aug 2021 15:06

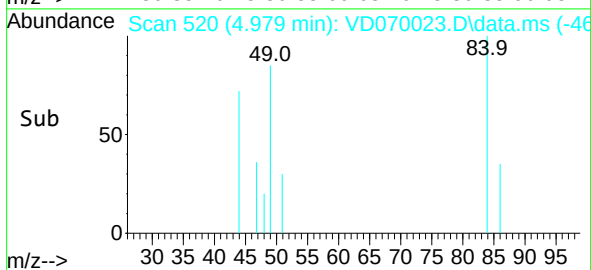
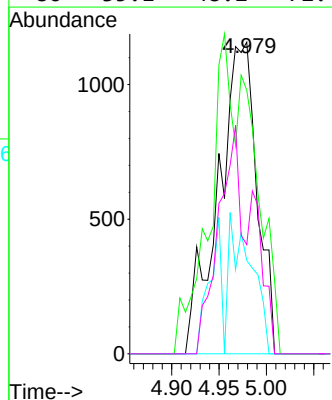
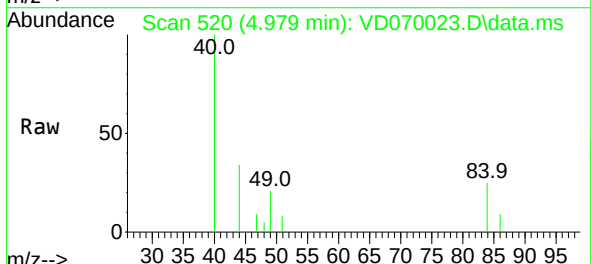
Instrument :  
MSVOA\_D  
ClientSampleId :  
124030RE

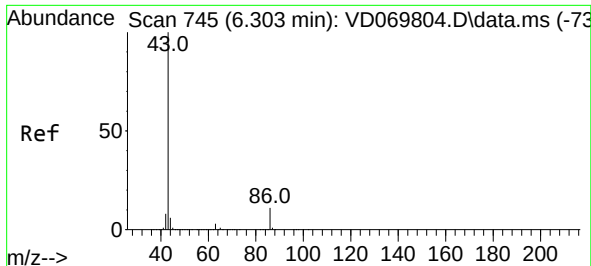
Tgt Ion: 43 Resp: 1011  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.4 44.0#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.979 min Scan# 520  
Delta R.T. 0.017 min  
Lab File: VD070023.D  
Acq: 11 Aug 2021 15:06

Tgt Ion: 84 Resp: 3298  
Ion Ratio Lower Upper  
84 100  
49 84.5 92.4 138.6#  
51 30.0 28.5 42.7  
86 35.1 48.2 72.4#

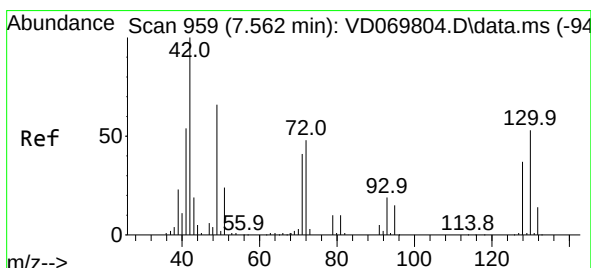
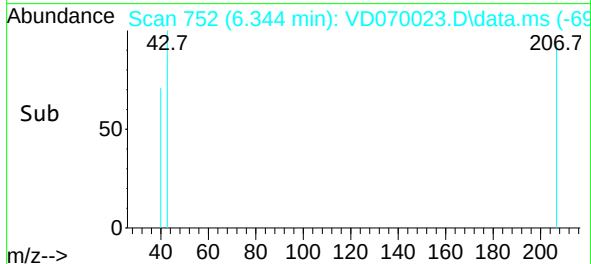
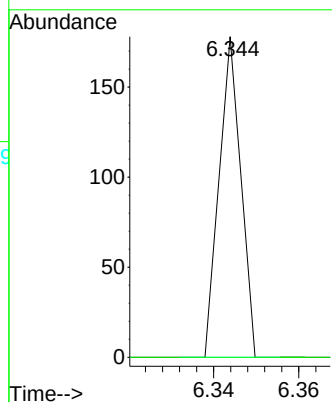
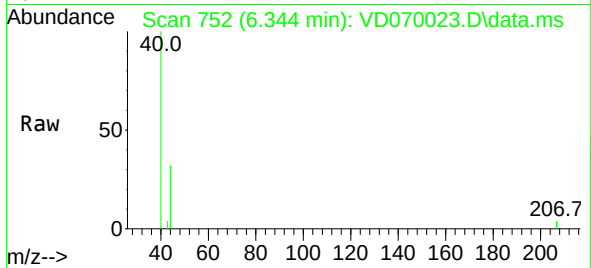




#23  
 Vinyl Acetate  
 Concen: 20.409 ug/l  
 RT: 6.344 min Scan# 752  
 Delta R.T. 0.041 min  
 Lab File: VD070023.D  
 Acq: 11 Aug 2021 15:06

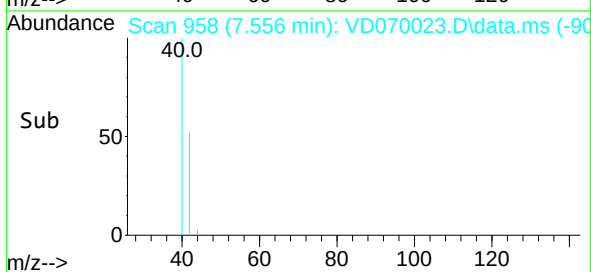
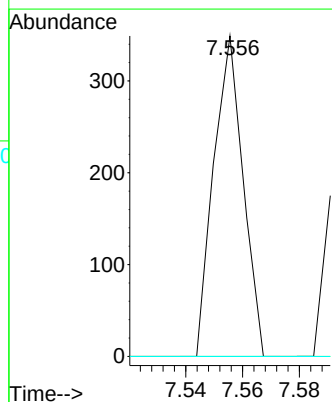
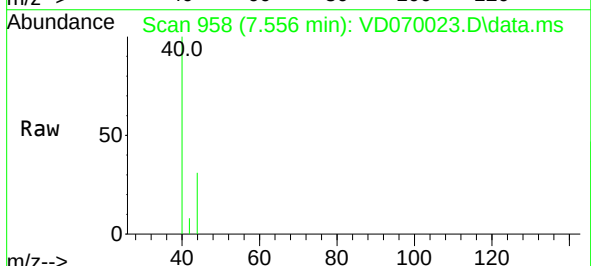
Instrument :  
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 ClientSampleId :  
 124030RE

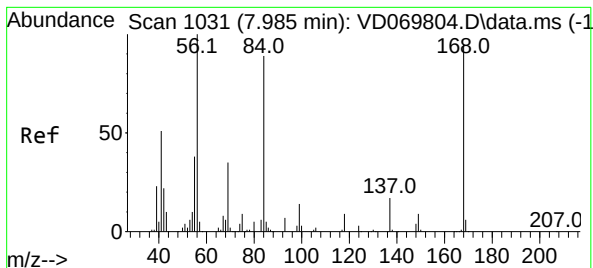
Tgt Ion: 43 Resp: 63  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 8.6 13.0#



#29  
 Tetrahydrofuran  
 Concen: 2.867 ug/l  
 RT: 7.556 min Scan# 958  
 Delta R.T. -0.006 min  
 Lab File: VD070023.D  
 Acq: 11 Aug 2021 15:06

Tgt Ion: 42 Resp: 251  
 Ion Ratio Lower Upper  
 42 100  
 72 0.0 36.5 54.7#  
 71 0.0 33.5 50.3#

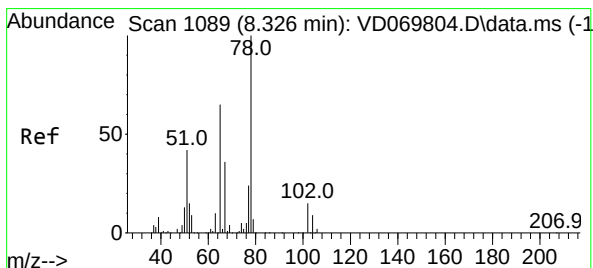
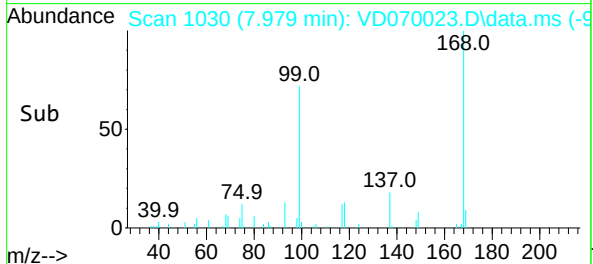
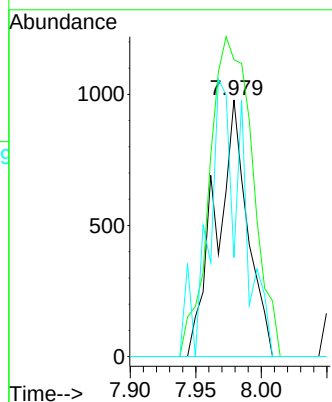
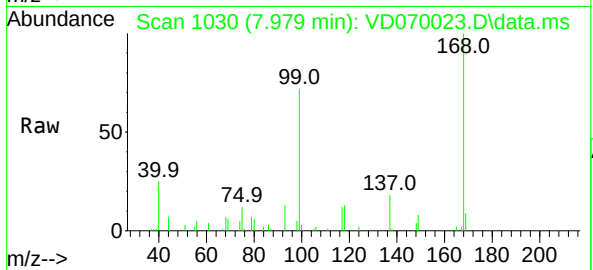




#31  
Cyclohexane  
Concen: 1.523 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD070023.D  
Acq: 11 Aug 2021 15:06

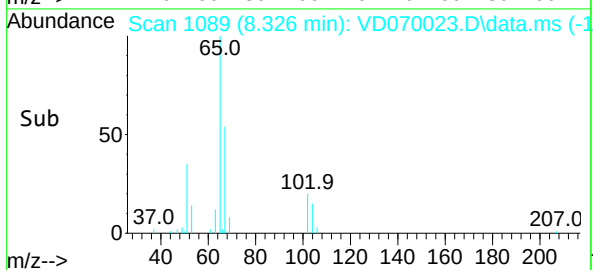
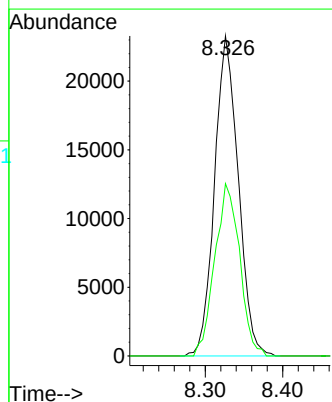
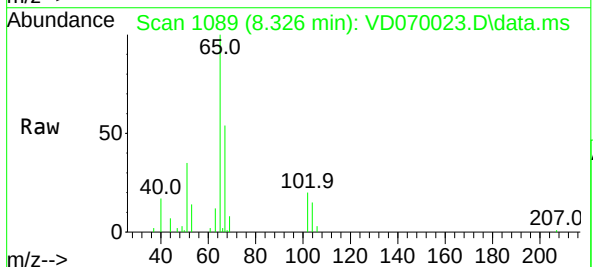
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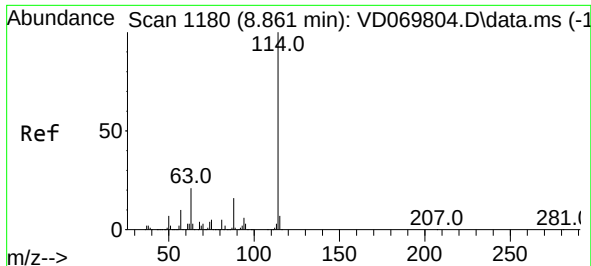
Tgt Ion: 56 Resp: 1644  
Ion Ratio Lower Upper  
56 100  
69 115.6 27.9 41.9#  
84 38.6 71.4 107.2#



#33  
1,2-Dichloroethane-d4  
Concen: 89.727 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. -0.000 min  
Lab File: VD070023.D  
Acq: 11 Aug 2021 15:06

Tgt Ion: 65 Resp: 49562  
Ion Ratio Lower Upper  
65 100  
67 56.3 0.0 111.2



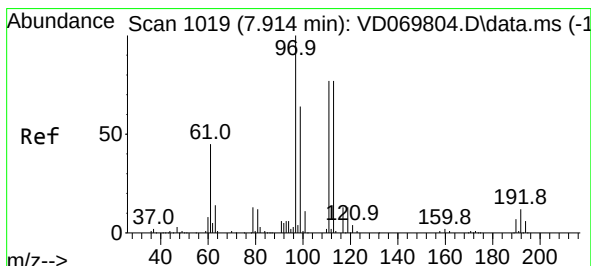
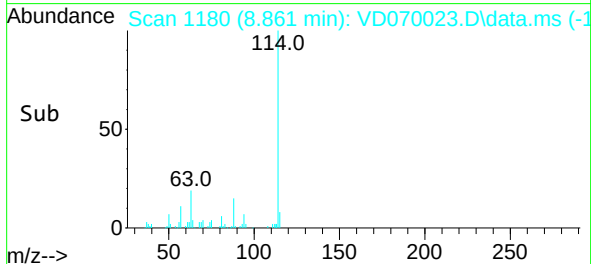
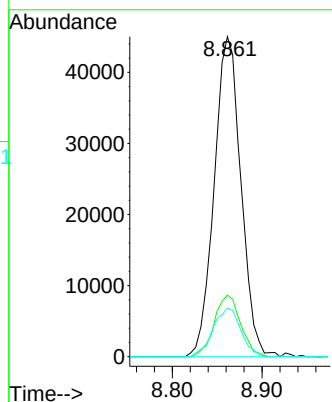
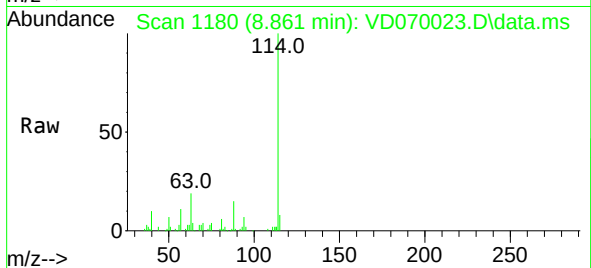


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD070023.D  
Acq: 11 Aug 2021 15:06

Instrument :  
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124030RE

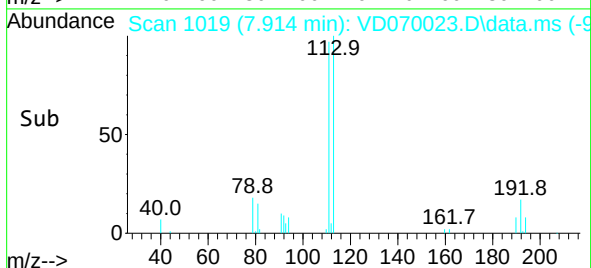
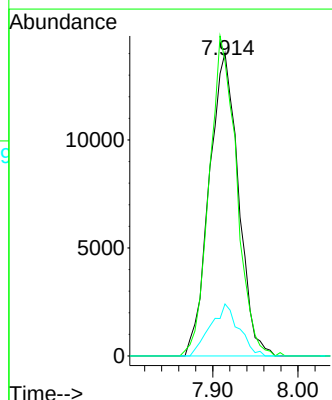
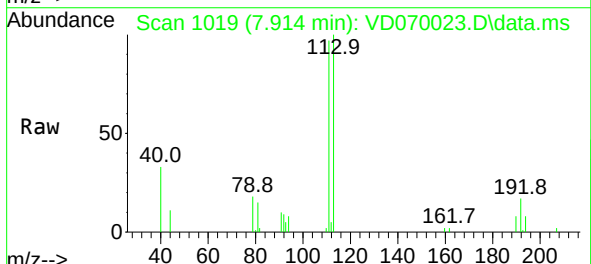
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|-----------|-------|-------|-------|
| Tgt Ion:  | 114   | Resp: | 92979 |
| Ion Ratio | Lower | Upper |       |
| 114       | 100   |       |       |
| 63        | 19.2  | 0.0   | 41.6  |
| 88        | 15.2  | 0.0   | 31.4  |



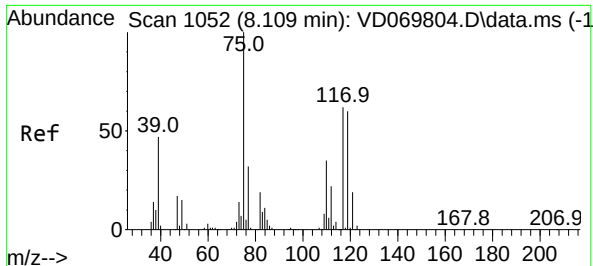
#35

Dibromofluoromethane  
Concen: 57.041 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. -0.000 min  
Lab File: VD070023.D  
Acq: 11 Aug 2021 15:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 33434 |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 111       | 98.8  | 80.5  | 120.7 |
| 192       | 16.6  | 12.6  | 19.0  |



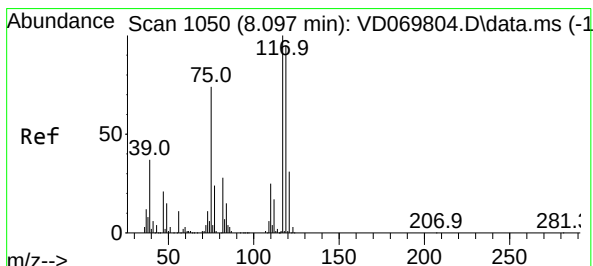
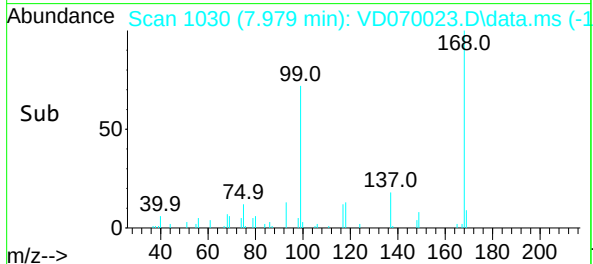
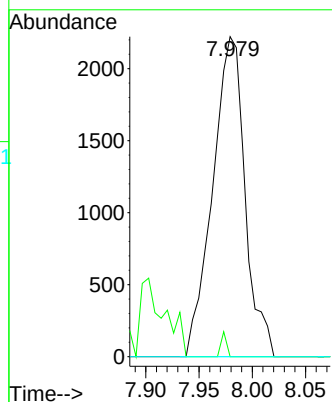
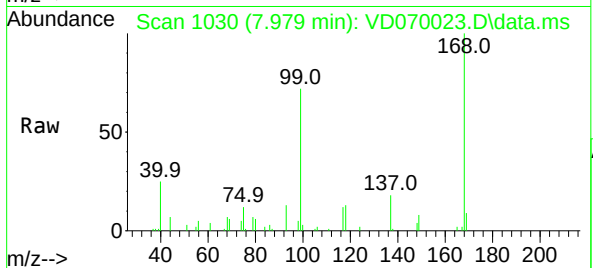




#36  
1,1-Dichloropropene  
Concen: 4.685 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.129 min  
Lab File: VD070023.D  
Acq: 11 Aug 2021 15:06

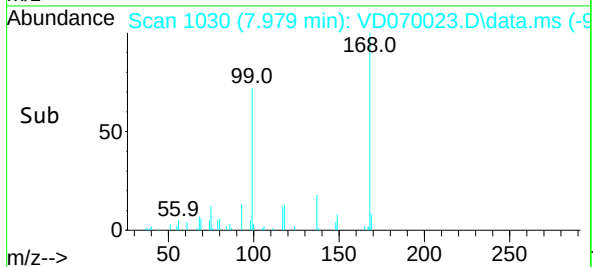
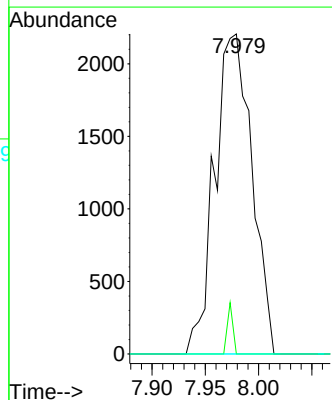
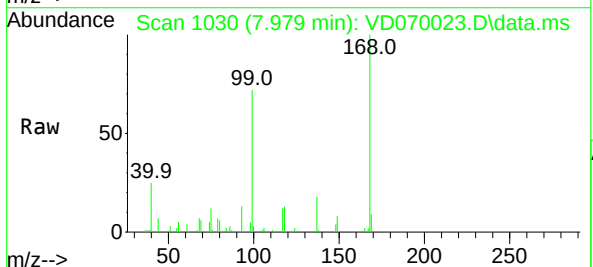
Instrument :  
MSVOA\_D  
ClientSampleId :  
124030RE

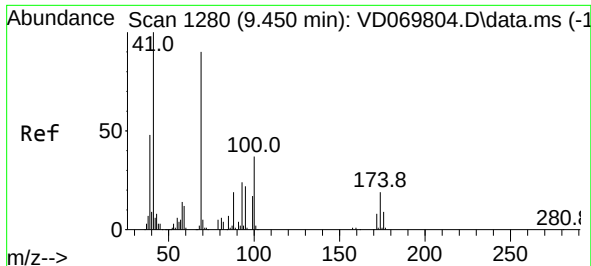
Tgt Ion: 75 Resp: 4701  
Ion Ratio Lower Upper  
75 100  
110 1.3 16.9 50.7#  
77 0.0 24.9 37.3#



#38  
Carbon Tetrachloride  
Concen: 5.852 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.118 min  
Lab File: VD070023.D  
Acq: 11 Aug 2021 15:06

Tgt Ion: 117 Resp: 5364  
Ion Ratio Lower Upper  
117 100  
119 0.0 76.2 114.2#  
121 0.0 24.5 36.7#

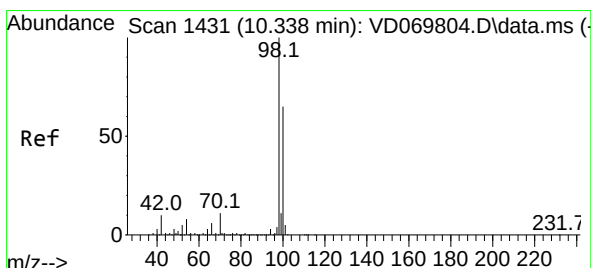
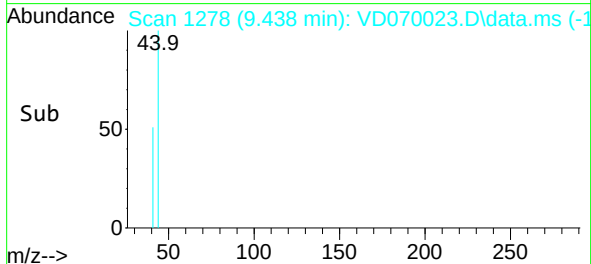
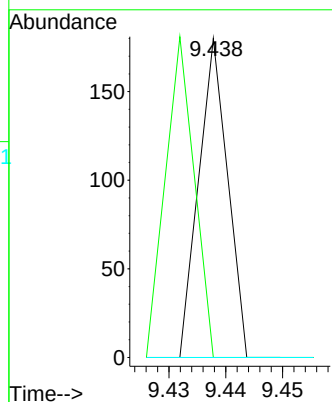
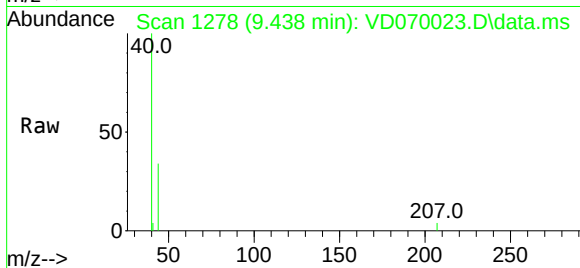




#48  
Methyl methacrylate  
Concen: 2.917 ug/l  
RT: 9.438 min Scan# 1278  
Delta R.T. -0.012 min  
Lab File: VD070023.D  
Acq: 11 Aug 2021 15:06

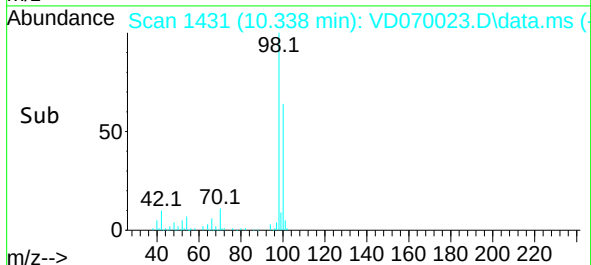
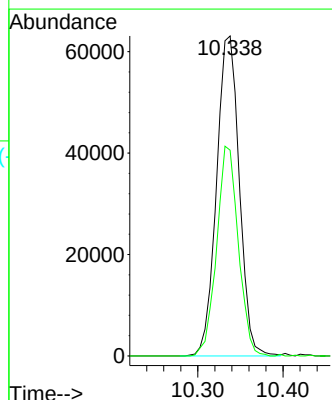
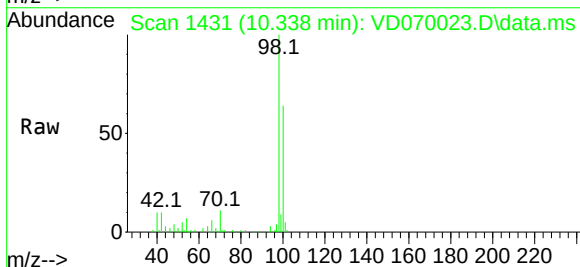
Instrument :  
MSVOA\_D  
ClientSampleId :  
124030RE

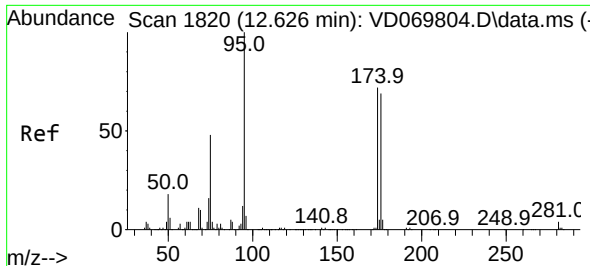
Tgt Ion: 41 Resp: 63  
Ion Ratio Lower Upper  
41 100  
69 101.6 73.4 110.2  
39 0.0 36.6 55.0#



#50  
Toluene-d8  
Concen: 51.860 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD070023.D  
Acq: 11 Aug 2021 15:06

Tgt Ion: 98 Resp: 117209  
Ion Ratio Lower Upper  
98 100  
100 62.4 51.9 77.9

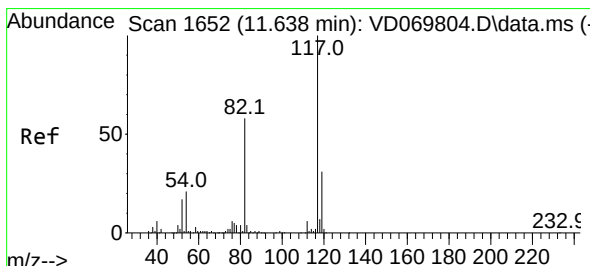
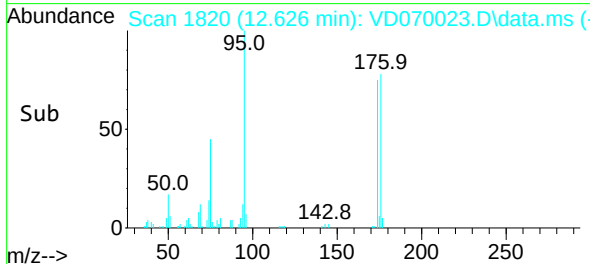
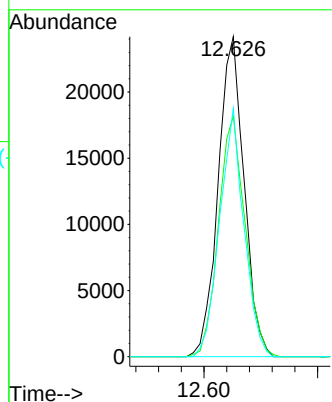
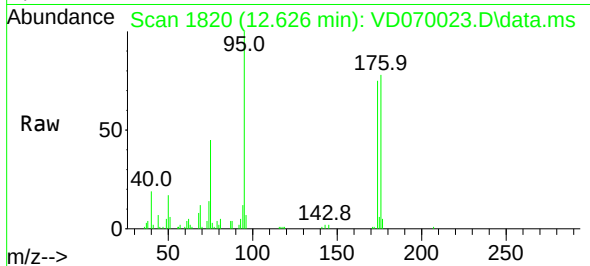




#62  
4-Bromofluorobenzene  
Concen: 50.777 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD070023.D  
Acq: 11 Aug 2021 15:06

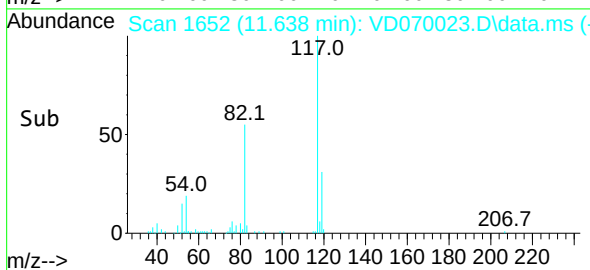
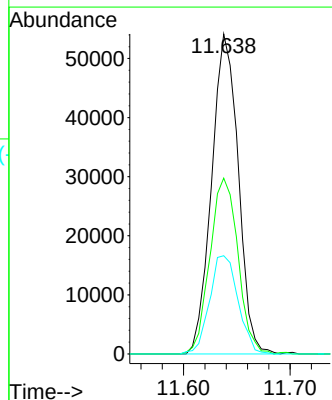
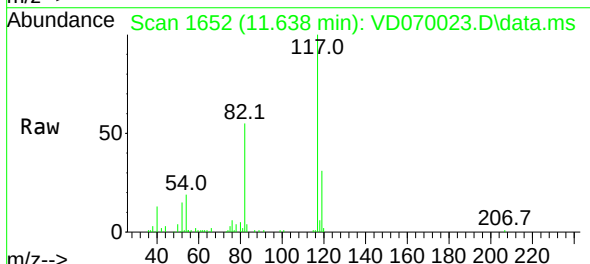
Instrument :  
MSVOA\_D  
ClientSampleId :  
124030RE

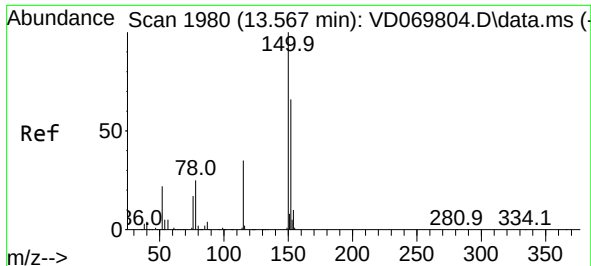
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 38354 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 77.1  | 0.0   | 142.6 |
| 176      | 72.4  | 0.0   | 134.2 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD070023.D  
Acq: 11 Aug 2021 15:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 93919 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 55.0  | 46.3  | 69.5  |
| 119      | 30.7  | 24.7  | 37.1  |

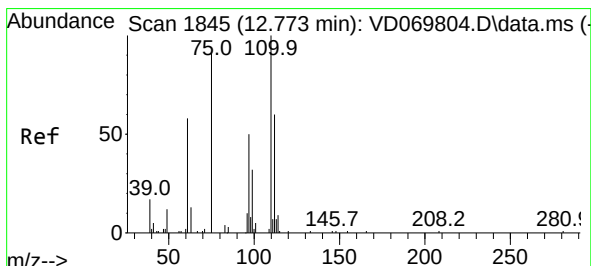
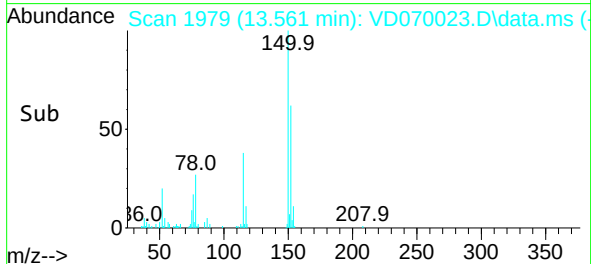
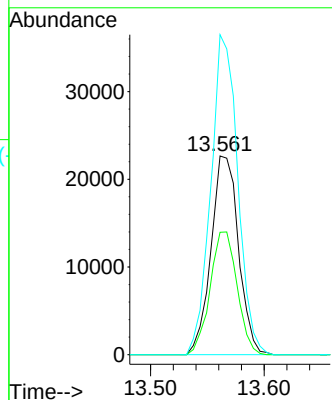
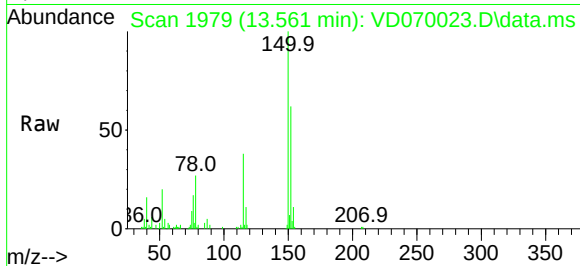




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1979  
Delta R.T. -0.006 min  
Lab File: VD070023.D  
Acq: 11 Aug 2021 15:06

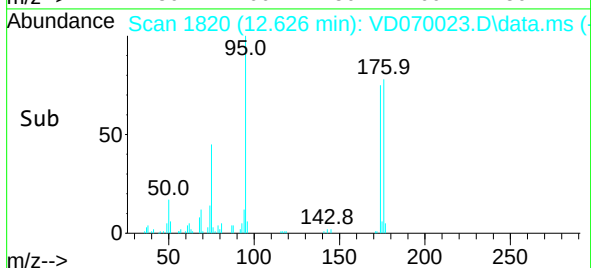
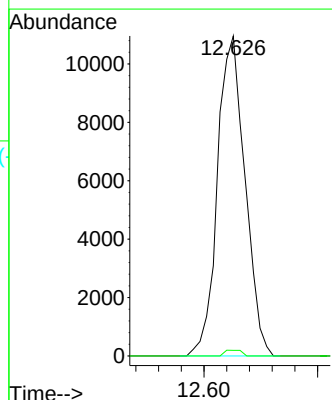
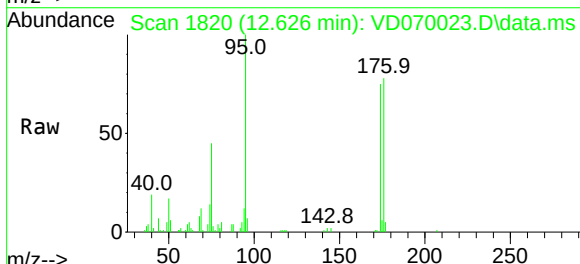
Instrument :  
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ClientSampleId :  
124030RE

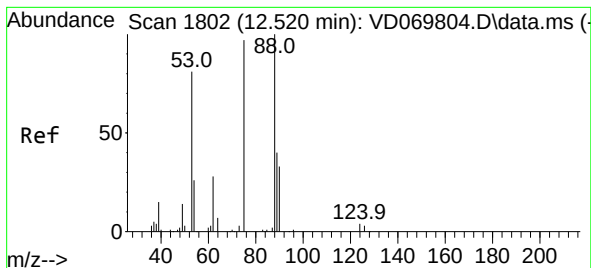
Tgt Ion:152 Resp: 38073  
Ion Ratio Lower Upper  
152 100  
115 60.8 31.1 93.3  
150 157.8 0.0 343.0



#76  
1,2,3-Trichloropropane  
Concen: 45.576 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD070023.D  
Acq: 11 Aug 2021 15:06

Tgt Ion: 75 Resp: 18444  
Ion Ratio Lower Upper  
75 100  
77 1.1 181.5 544.5#

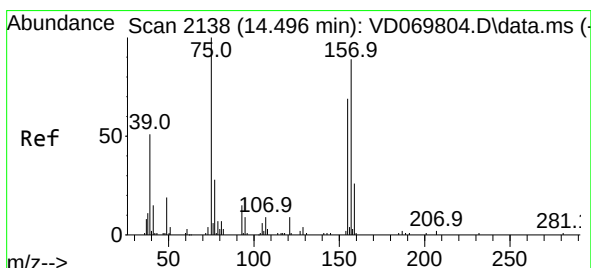
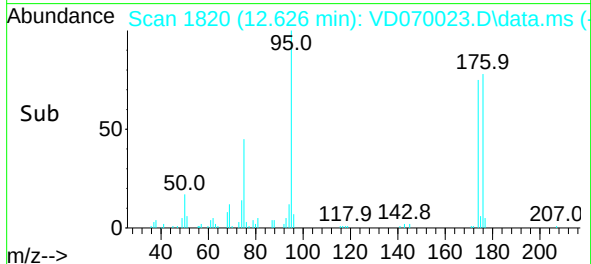
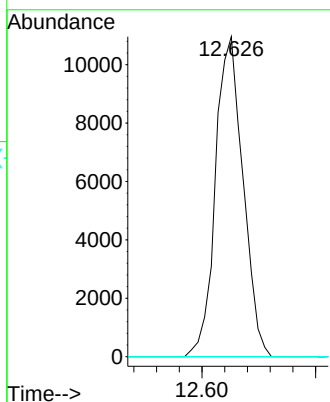
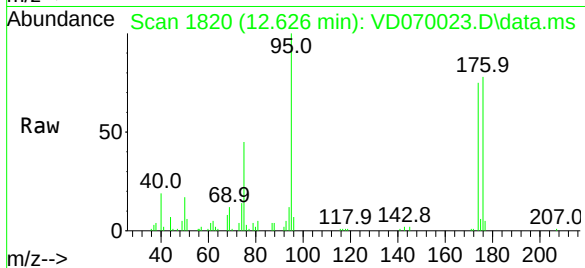




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 138.265 ug/l  
 RT: 12.626 min Scan# 1820  
 Delta R.T. 0.106 min  
 Lab File: VD070023.D  
 Acq: 11 Aug 2021 15:06

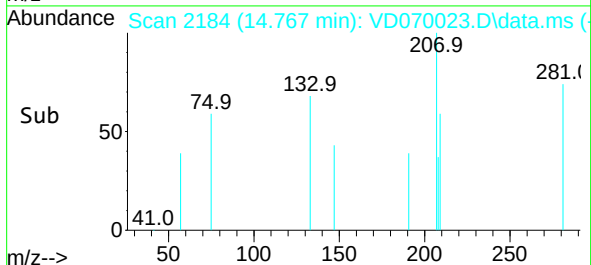
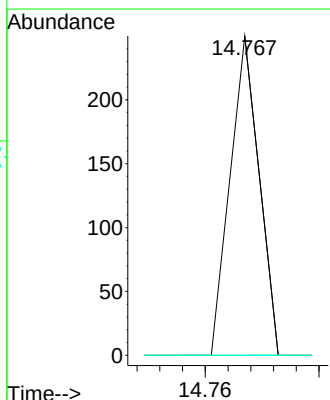
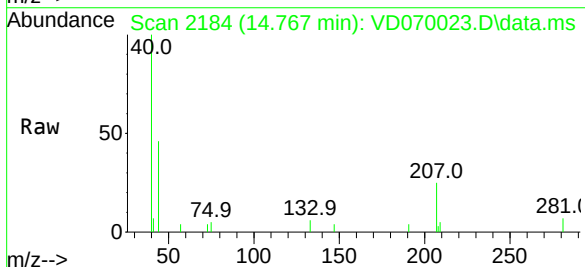
Instrument :  
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 ClientSampleId :  
 124030RE

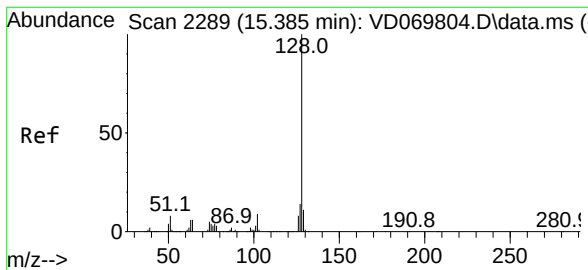
Tgt Ion: 75 Resp: 18444  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 67.2 100.8#  
 89 0.0 35.8 53.6#



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 1.119 ug/l  
 RT: 14.767 min Scan# 2184  
 Delta R.T. 0.271 min  
 Lab File: VD070023.D  
 Acq: 11 Aug 2021 15:06

Tgt Ion: 75 Resp: 88  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 36.3 108.9#  
 157 0.0 47.0 141.0#





#95  
Naphthalene  
Concen: 5.145 ug/l  
RT: 15.379 min Scan# 2288  
Delta R.T. -0.006 min  
Lab File: VD070023.D  
Acq: 11 Aug 2021 15:06

Instrument :  
MSVOA\_D  
ClientSampleId :  
124030RE

Tgt Ion:128 Resp: 203  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 16.0#  
129 0.0 8.6 12.8#

