

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD102821\  
 Data File : VD070897.D  
 Acq On : 28 Oct 2021 17:48  
 Operator : VA/SY  
 Sample : M4395-07  
 Misc : 5.01G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Oct 29 06:36:00 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D102621S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 27 05:34:47 2021  
 Response via : Initial Calibration

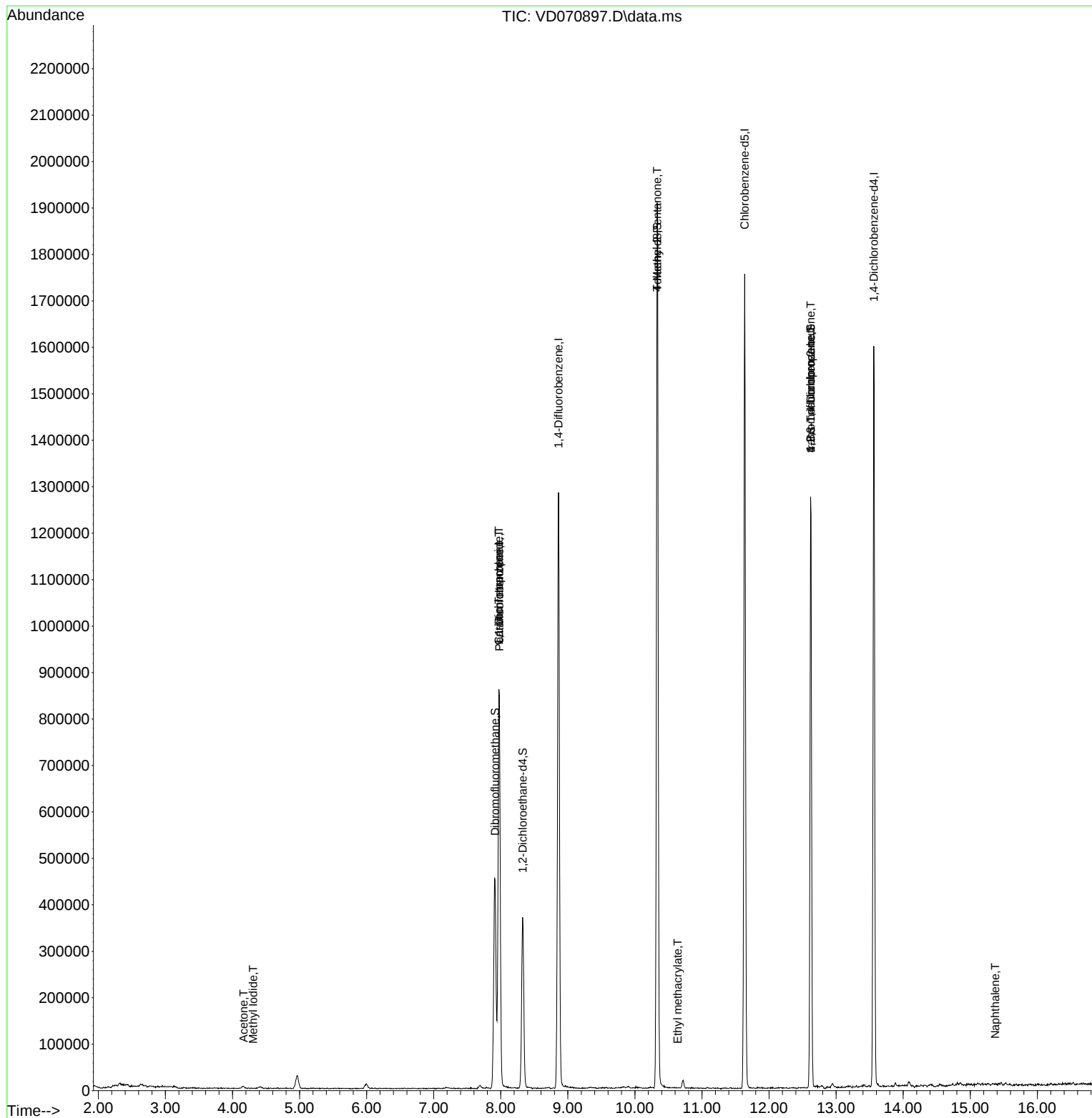
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 662233     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 1123050    | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 1044863    | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561         | 152  | 466074     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 284039     | 42.646    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = | 85.300%   |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 344575     | 46.534    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = | 93.060%   |        |          |
| 50) Toluene-d8                | 10.332         | 98   | 1393605    | 50.025    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = | 100.040%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.620         | 95   | 439229     | 47.786    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = | 95.580%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
| 5) Bromomethane               | 2.768          | 94   | 606        | Below Cal | #      | 41       |
| 10) Methyl Iodide             | 4.309          | 142  | 425        | 3.659     | ug/l # | 73       |
| 16) Acetone                   | 4.167          | 43   | 8257       | 5.329     | ug/l   | 95       |
| 20) Methylene Chloride        | 4.962          | 84   | 22147      | Below Cal |        | 90       |
| 36) 1,1-Dichloropropene       | 7.973          | 75   | 49381      | 4.203     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 7.973          | 117  | 62983      | 5.330     | ug/l # | 17       |
| 51) 4-Methyl-2-Pentanone      | 10.332         | 43   | 4299       | 1.010     | ug/l # | 1        |
| 56) Ethyl methacrylate        | 10.638         | 69   | 174        | 2.863     | ug/l # | 37       |
| 76) 1,2,3-Trichloropropane    | 12.620         | 75   | 199141     | 43.404    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.620         | 75   | 199141     | 113.920   | ug/l # | 19       |
| 95) Naphthalene               | 15.373         | 128  | 502        | 4.156     | ug/l # | 81       |
| -----                         |                |      |            |           |        |          |

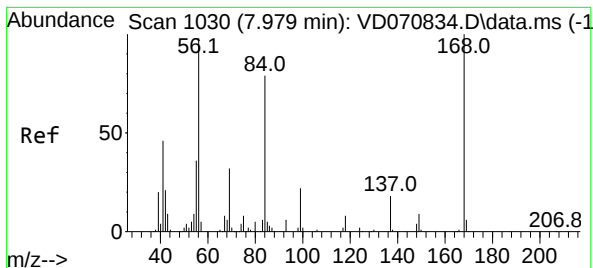
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD102821\  
Data File : VD070897.D  
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Operator : VA/SY  
Sample : M4395-07  
Misc : 5.01G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampled :

Quant Time: Oct 29 06:36:00 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D102621S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 27 05:34:47 2021  
Response via : Initial Calibration

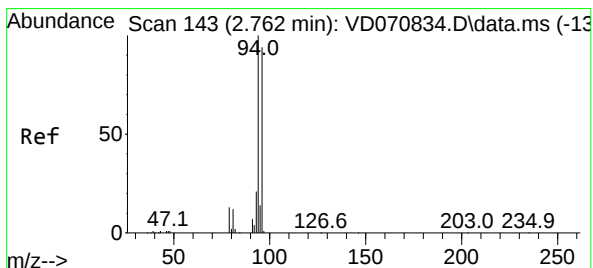
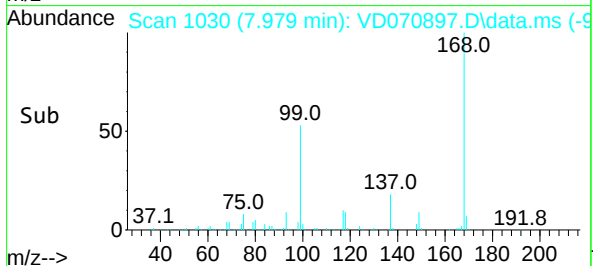
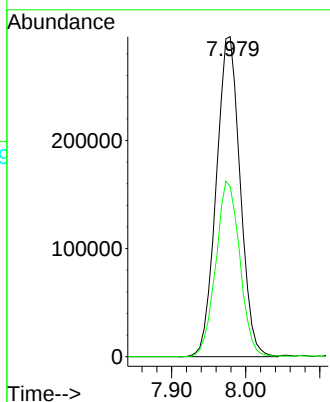
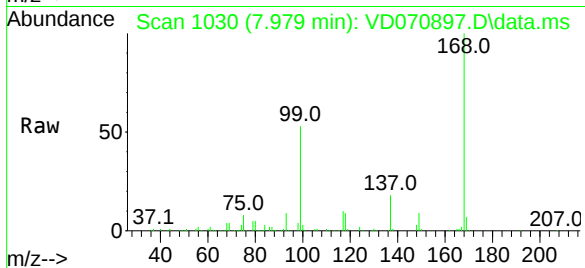




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. 0.000 min  
Lab File: VD070897.D  
Acq: 28 Oct 2021 17:48

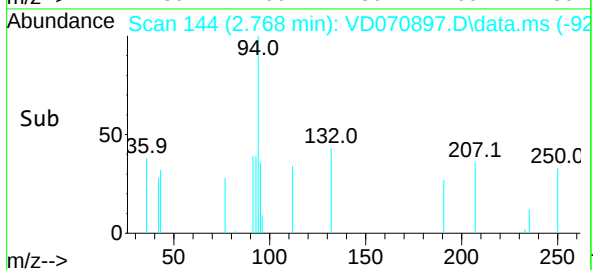
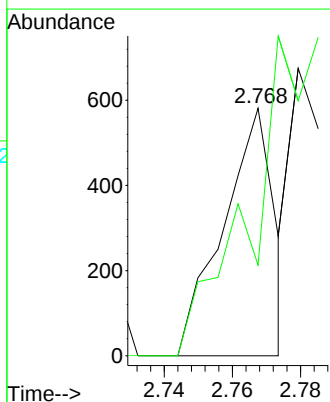
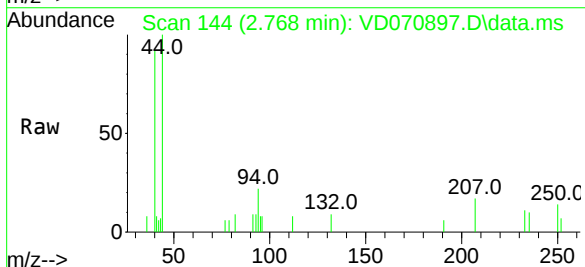
Instrument :  
MSVOA\_D  
ClientSampled :

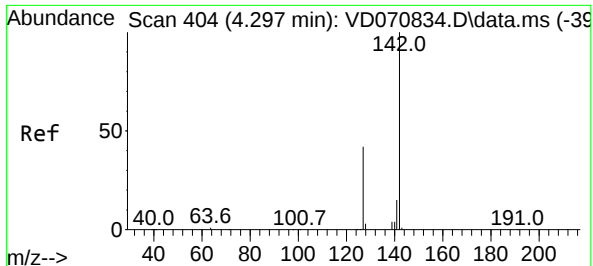
Tgt Ion:168 Resp: 662233  
Ion Ratio Lower Upper  
168 100  
99 53.1 46.6 69.8



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.768 min Scan# 144  
Delta R.T. 0.006 min  
Lab File: VD070897.D  
Acq: 28 Oct 2021 17:48

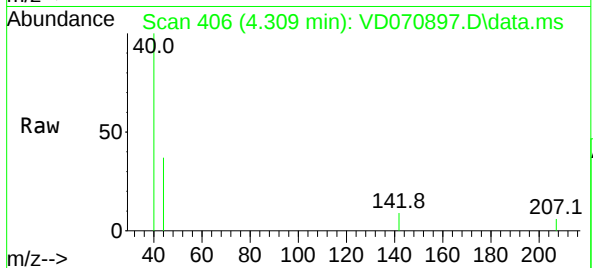
Tgt Ion: 94 Resp: 606  
Ion Ratio Lower Upper  
94 100  
96 36.7 74.8 112.2#



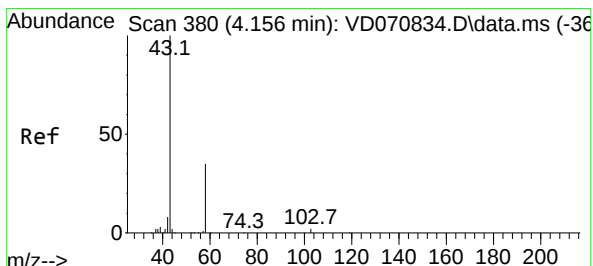
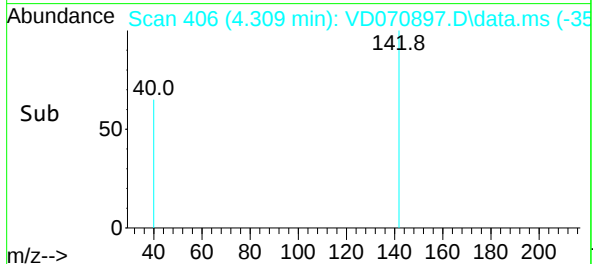
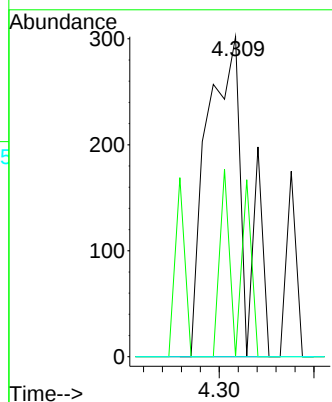


#10  
Methyl Iodide  
Concen: 3.659 ug/l  
RT: 4.309 min Scan# 406  
Delta R.T. 0.012 min  
Lab File: VD070897.D  
Acq: 28 Oct 2021 17:48

Instrument :  
MSVOA\_D  
ClientSampled :

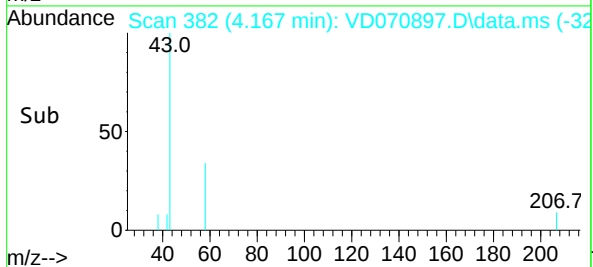
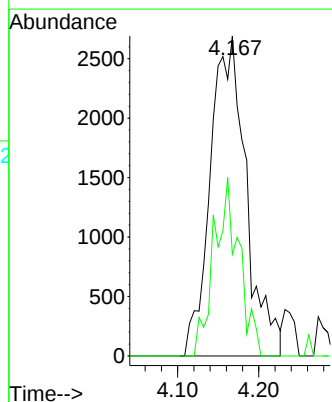
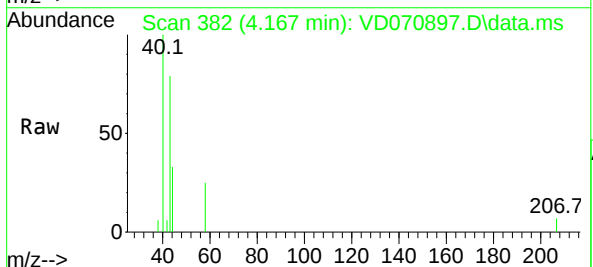


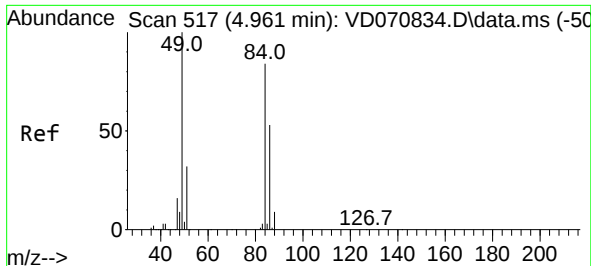
Tgt Ion:142 Resp: 425  
Ion Ratio Lower Upper  
142 100  
127 28.5 35.0 52.4#  
141 0.0 12.0 18.0#



#16  
Acetone  
Concen: 5.329 ug/l  
RT: 4.167 min Scan# 382  
Delta R.T. 0.012 min  
Lab File: VD070897.D  
Acq: 28 Oct 2021 17:48

Tgt Ion: 43 Resp: 8257  
Ion Ratio Lower Upper  
43 100  
58 31.8 27.8 41.8

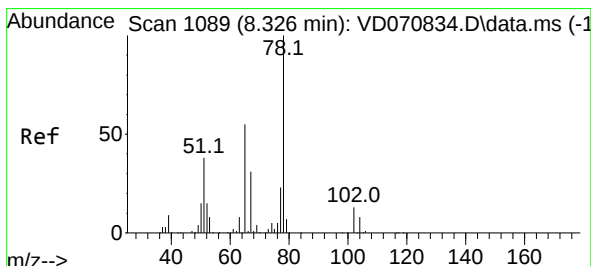
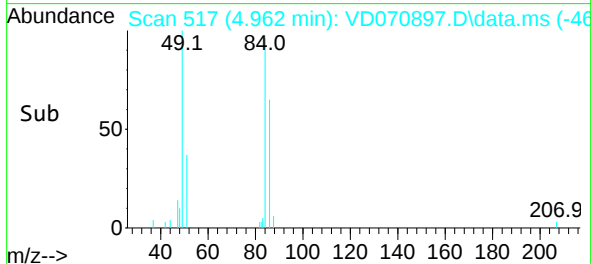
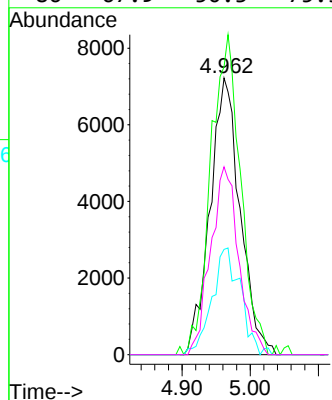
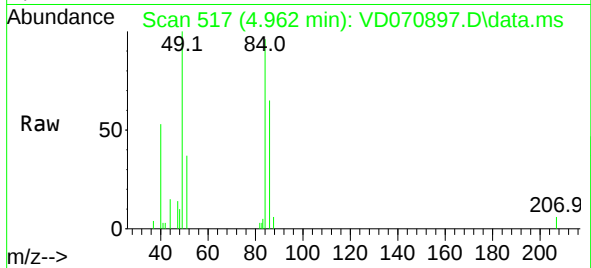




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.962 min Scan# 517  
Delta R.T. 0.001 min  
Lab File: VD070897.D  
Acq: 28 Oct 2021 17:48

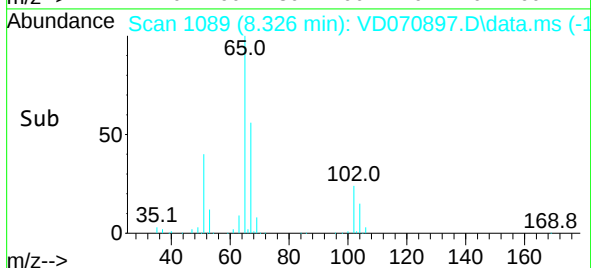
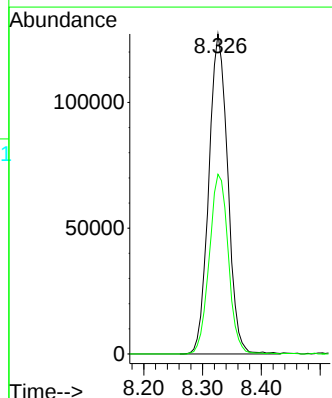
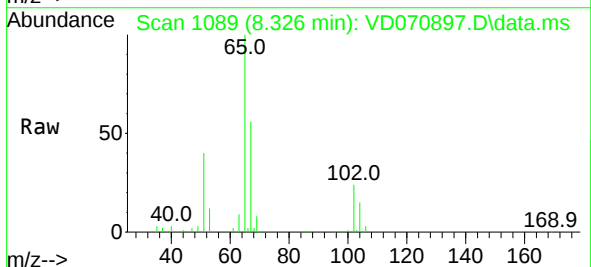
Instrument :  
MSVOA\_D  
ClientSampleId :

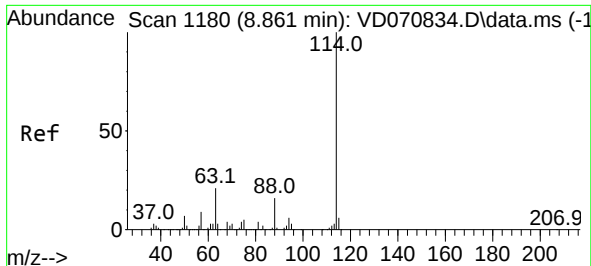
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 22147 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 104.0 | 95.8  | 143.6 |
| 51       | 38.0  | 30.9  | 46.3  |
| 86       | 67.9  | 50.3  | 75.5  |



#33  
1,2-Dichloroethane-d4  
Concen: 42.646 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD070897.D  
Acq: 28 Oct 2021 17:48

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 65    | Resp: | 284039 |
| Ion      | Ratio | Lower | Upper  |
| 65       | 100   |       |        |
| 67       | 56.4  | 0.0   | 112.2  |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD070897.D

Acq: 28 Oct 2021 17:48

Instrument :

MSVOA\_D

ClientSampleId :

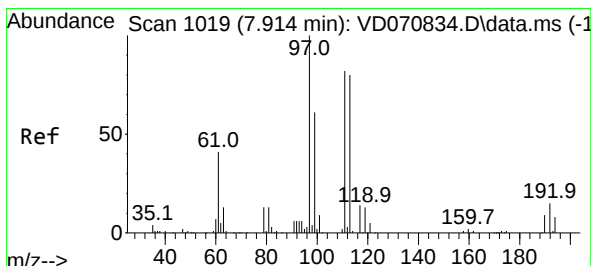
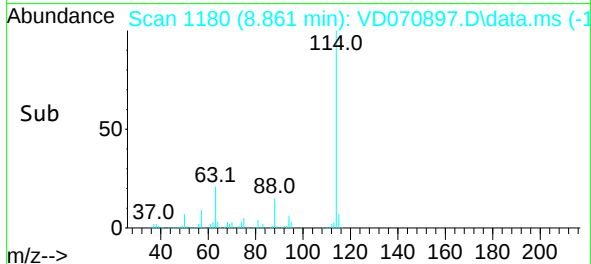
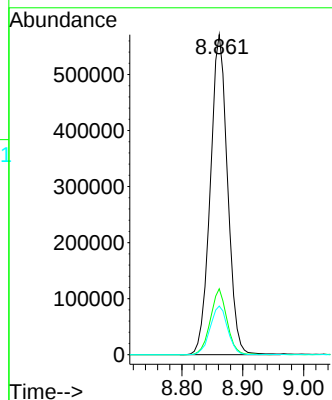
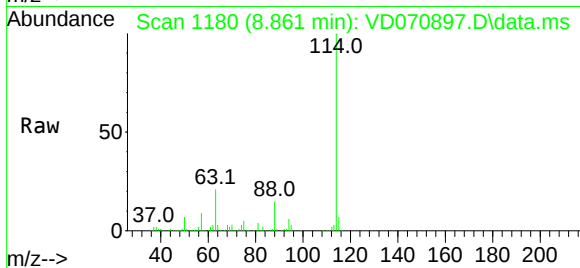
Tgt Ion:114 Resp: 1123050

Ion Ratio Lower Upper

114 100

63 20.6 0.0 41.8

88 15.2 0.0 32.8



#35

Dibromofluoromethane

Concen: 46.534 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VD070897.D

Acq: 28 Oct 2021 17:48

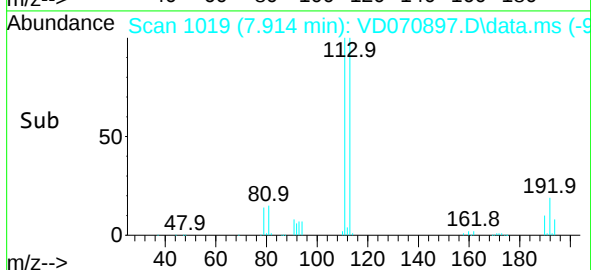
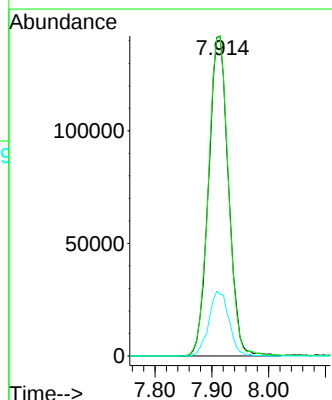
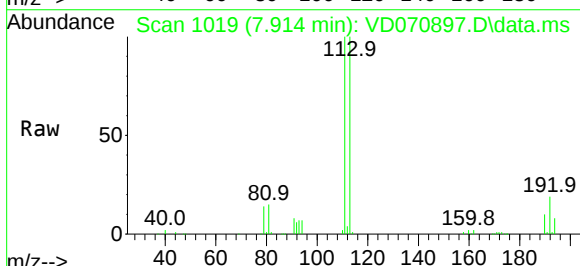
Tgt Ion:113 Resp: 344575

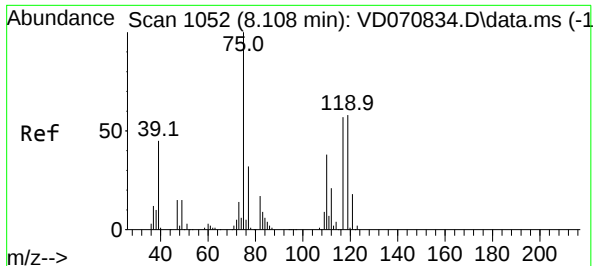
Ion Ratio Lower Upper

113 100

111 100.3 82.0 123.0

192 20.5 15.2 22.8

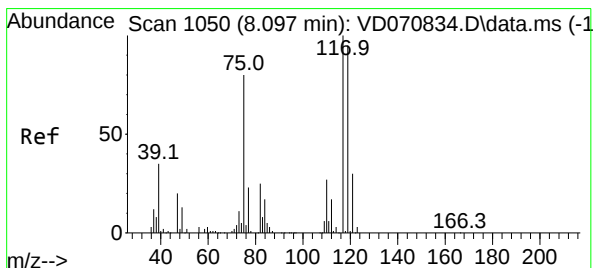
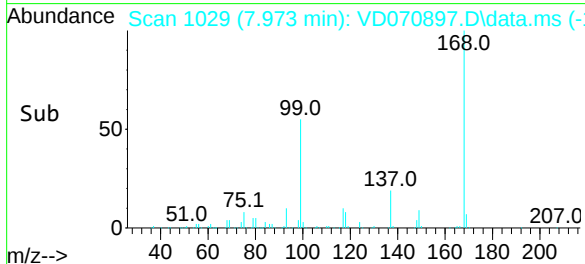
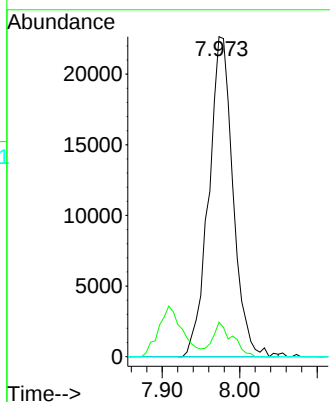
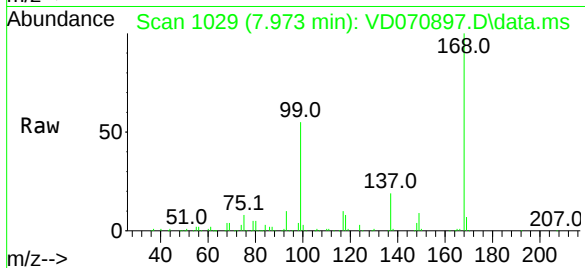




#36  
1,1-Dichloropropene  
Concen: 4.203 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.135 min  
Lab File: VD070897.D  
Acq: 28 Oct 2021 17:48

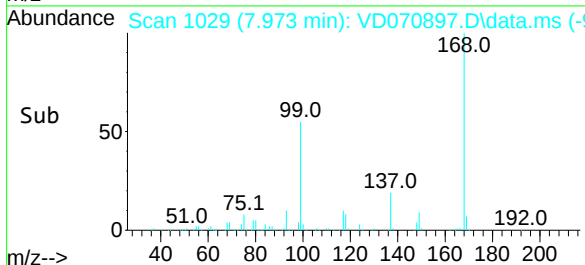
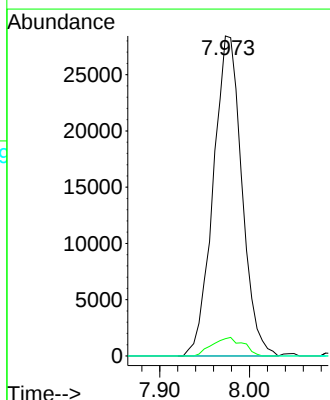
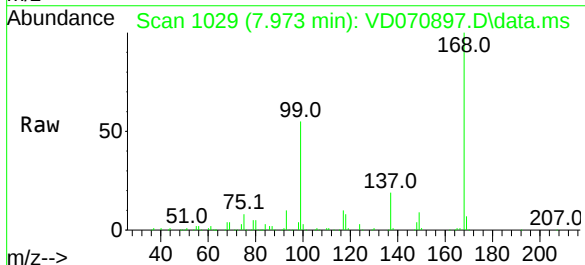
Instrument :  
MSVOA\_D  
ClientSampled :

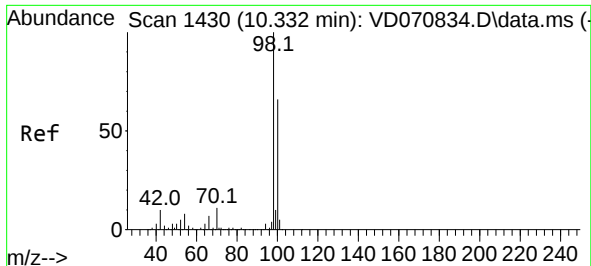
Tgt Ion: 75 Resp: 49381  
Ion Ratio Lower Upper  
75 100  
110 8.9 17.8 53.4#  
77 0.0 24.8 37.2#



#38  
Carbon Tetrachloride  
Concen: 5.330 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.123 min  
Lab File: VD070897.D  
Acq: 28 Oct 2021 17:48

Tgt Ion: 117 Resp: 62983  
Ion Ratio Lower Upper  
117 100  
119 5.4 75.8 113.6#  
121 0.0 23.6 35.4#

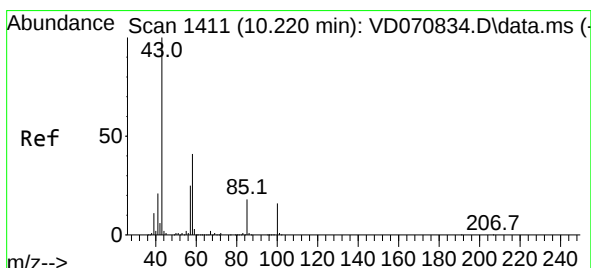
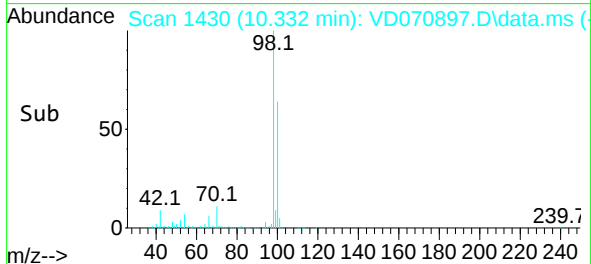
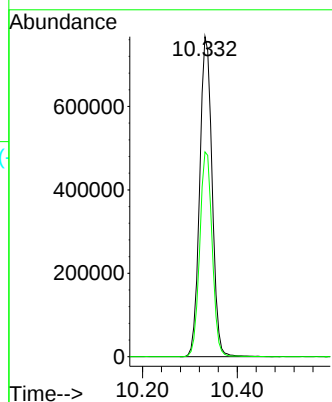
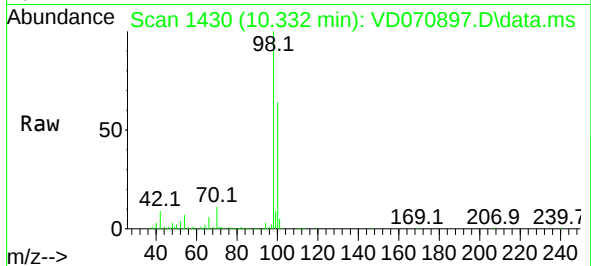




#50  
Toluene-d8  
Concen: 50.025 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. 0.000 min  
Lab File: VD070897.D  
Acq: 28 Oct 2021 17:48

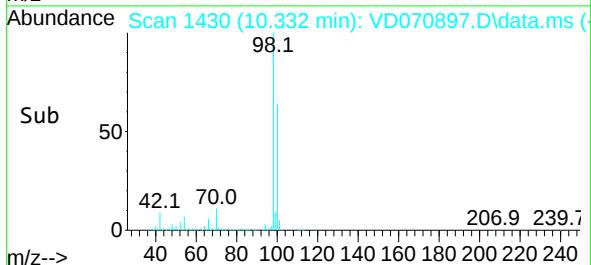
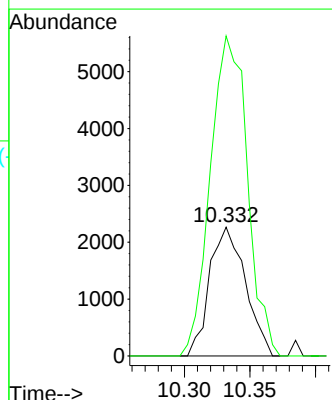
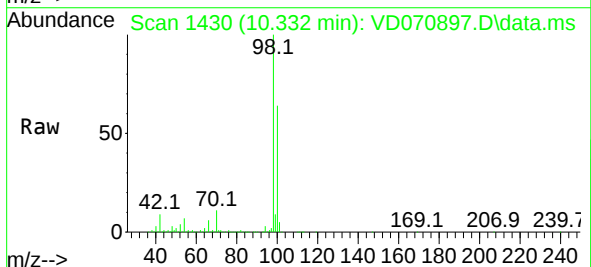
Instrument :  
MSVOA\_D  
ClientSampled :

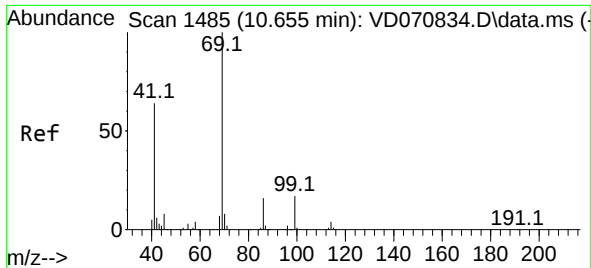
Tgt Ion: 98 Resp: 1393605  
Ion Ratio Lower Upper  
98 100  
100 64.1 51.8 77.6



#51  
4-Methyl-2-Pentanone  
Concen: 1.010 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. 0.112 min  
Lab File: VD070897.D  
Acq: 28 Oct 2021 17:48

Tgt Ion: 43 Resp: 4299  
Ion Ratio Lower Upper  
43 100  
58 257.3 33.1 49.7#

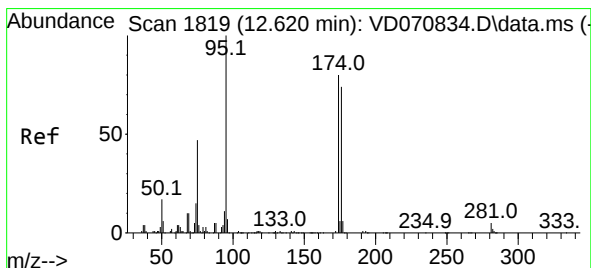
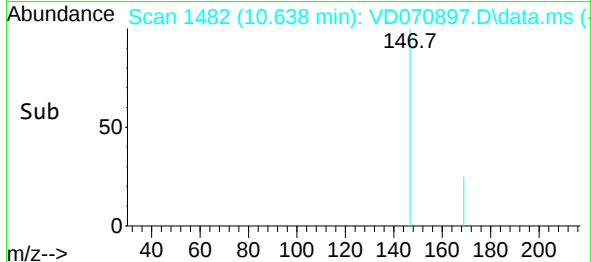
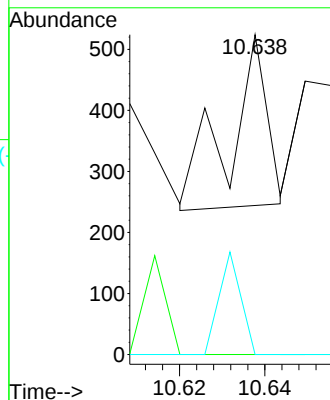
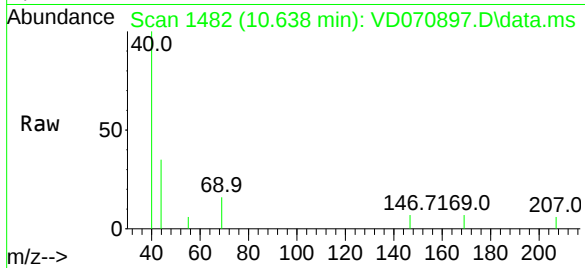




#56  
Ethyl methacrylate  
Concen: 2.863 ug/l  
RT: 10.638 min Scan# 1482  
Delta R.T. -0.017 min  
Lab File: VD070897.D  
Acq: 28 Oct 2021 17:48

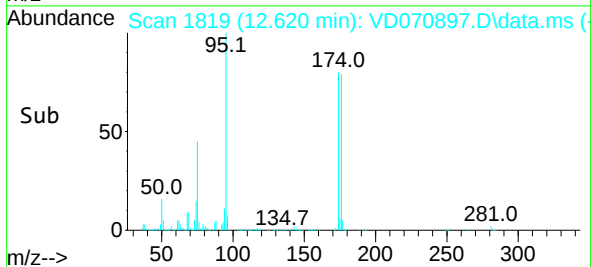
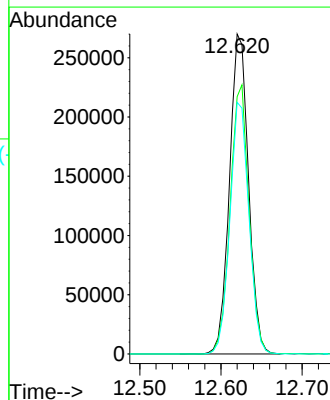
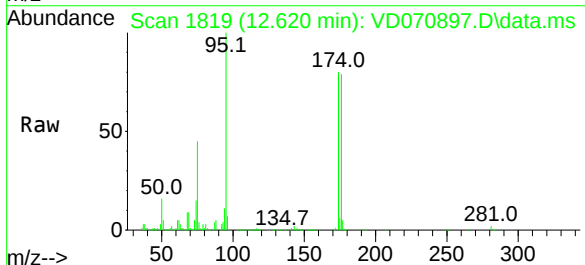
Instrument :  
MSVOA\_D  
ClientSampled :

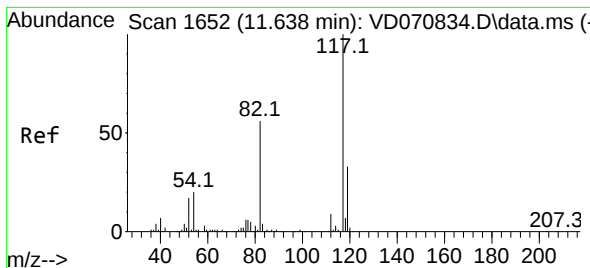
Tgt Ion: 69 Resp: 174  
Ion Ratio Lower Upper  
69 100  
41 0.0 50.2 75.2#  
39 33.9 19.8 29.8#



#62  
4-Bromofluorobenzene  
Concen: 47.786 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.000 min  
Lab File: VD070897.D  
Acq: 28 Oct 2021 17:48

Tgt Ion: 95 Resp: 439229  
Ion Ratio Lower Upper  
95 100  
174 83.2 0.0 159.4  
176 78.4 0.0 154.0

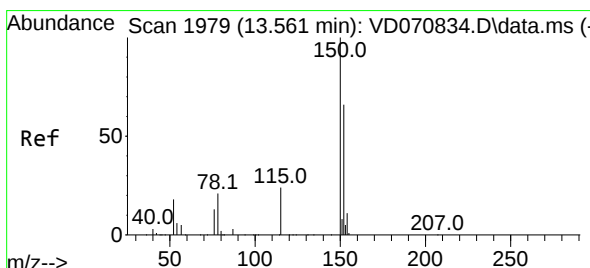
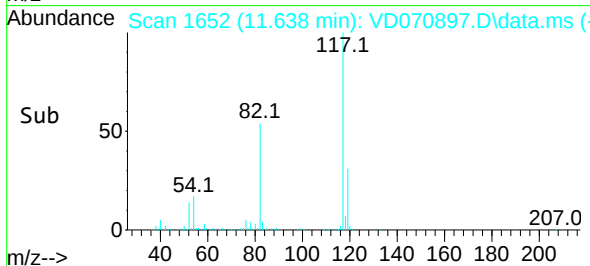
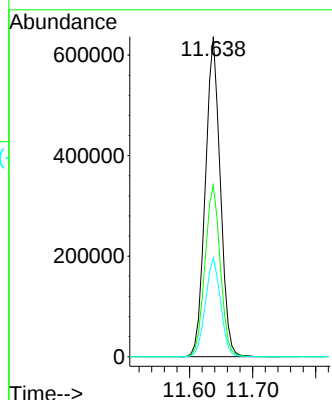
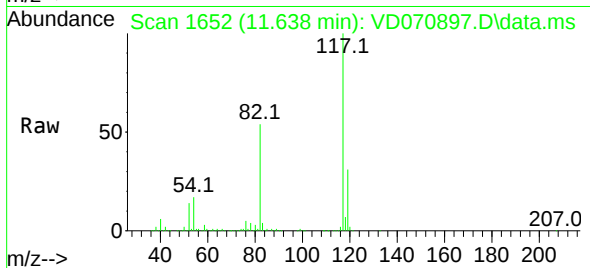




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD070897.D  
Acq: 28 Oct 2021 17:48

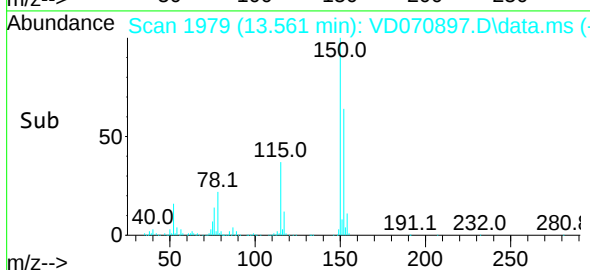
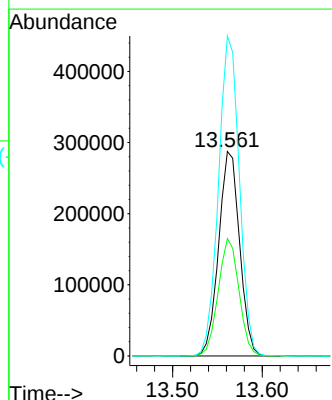
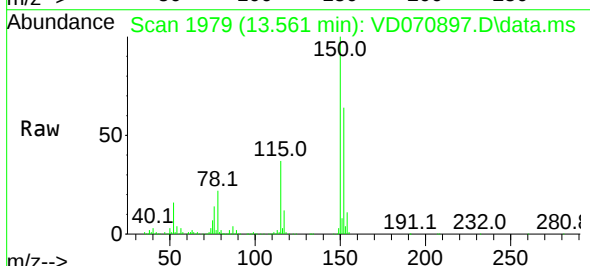
Instrument :  
MSVOA\_D  
ClientSampleId :

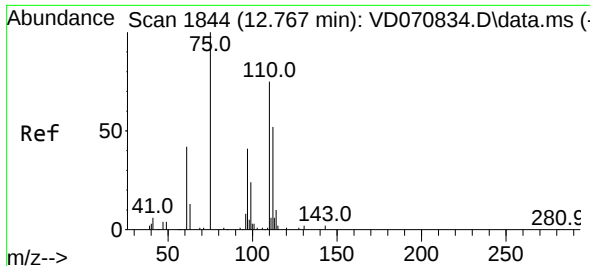
Tgt Ion:117 Resp: 1044863  
Ion Ratio Lower Upper  
117 100  
82 53.6 44.7 67.1  
119 30.8 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1979  
Delta R.T. 0.000 min  
Lab File: VD070897.D  
Acq: 28 Oct 2021 17:48

Tgt Ion:152 Resp: 466074  
Ion Ratio Lower Upper  
152 100  
115 56.8 29.8 89.3  
150 155.8 0.0 349.2

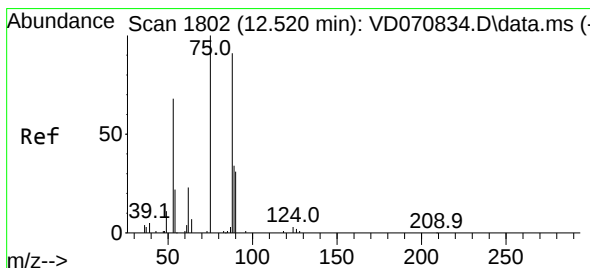
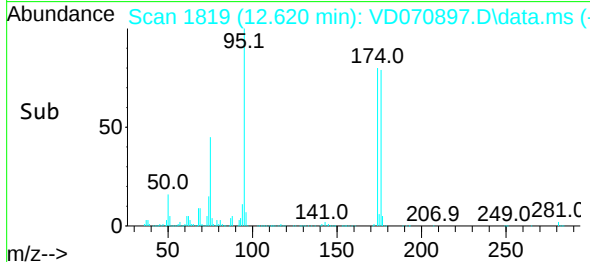
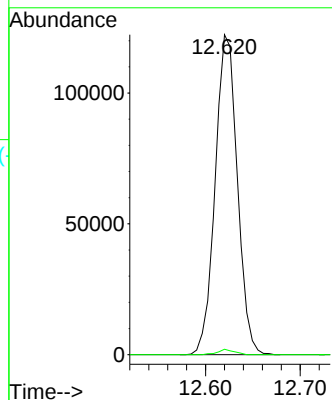
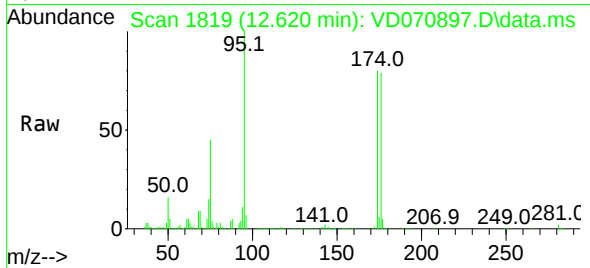




#76  
1,2,3-Trichloropropane  
Concen: 43.404 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.147 min  
Lab File: VD070897.D  
Acq: 28 Oct 2021 17:48

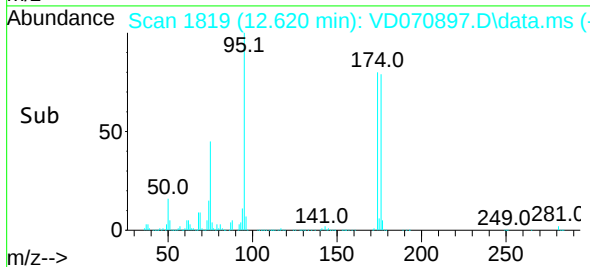
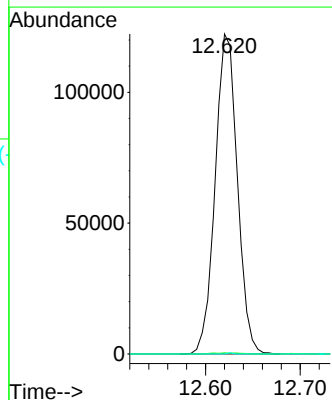
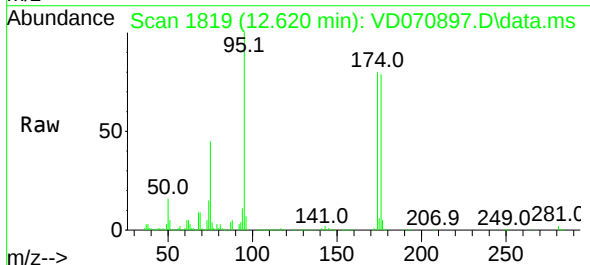
Instrument :  
MSVOA\_D  
ClientSampleId :

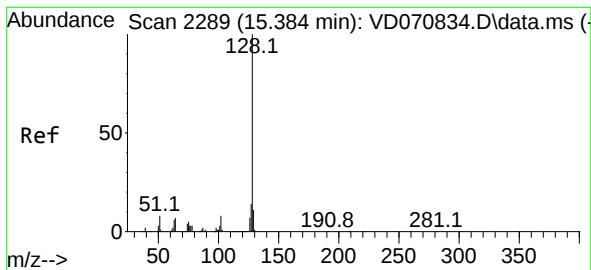
Tgt Ion: 75 Resp: 199141  
Ion Ratio Lower Upper  
75 100  
77 1.3 158.4 475.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 113.920 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.100 min  
Lab File: VD070897.D  
Acq: 28 Oct 2021 17:48

Tgt Ion: 75 Resp: 199141  
Ion Ratio Lower Upper  
75 100  
53 0.4 62.6 94.0#  
89 0.1 34.5 51.7#





#95  
Naphthalene  
Concen: 4.156 ug/l  
RT: 15.373 min Scan# 2287  
Delta R.T. -0.011 min  
Lab File: VD070897.D  
Acq: 28 Oct 2021 17:48

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion:128 Resp: 502  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.7 16.1#  
129 11.6 8.7 13.1

