

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD060723\  
 Data File : VD076359.D  
 Acq On : 07 Jun 2023 17:49  
 Operator : KP/SY  
 Sample : 03051-01  
 Misc : 5.05G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RBR-251580

Quant Time: Jun 08 01:19:04 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D060523S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 06 02:52:23 2023  
 Response via : Initial Calibration

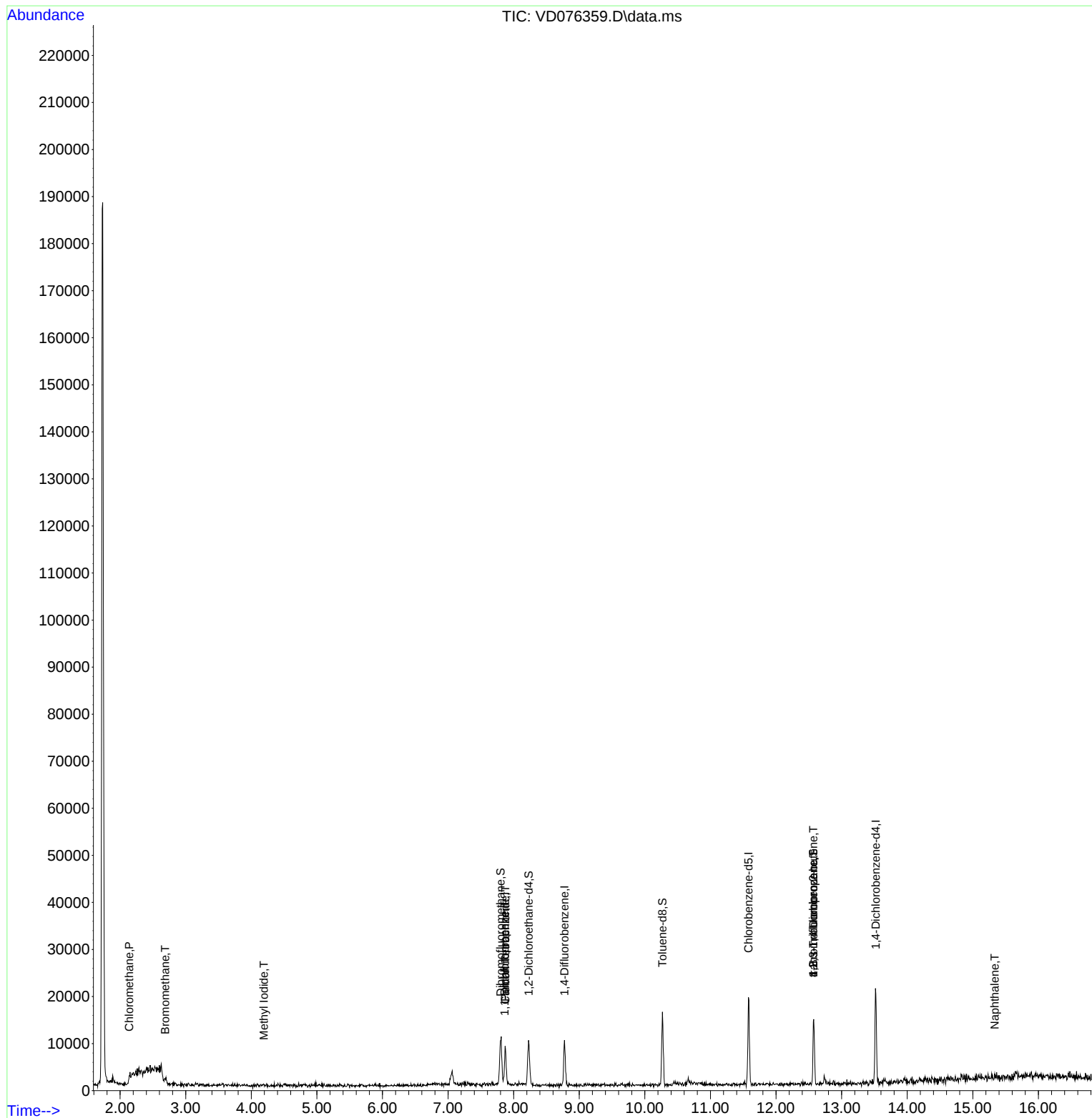
| Compound                      | R.T.   | QIon  | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------------|----------|
| -----                         |        |       |          |           |             |          |
| Internal Standards            |        |       |          |           |             |          |
| 1) Pentafluorobenzene         | 7.869  | 168   | 6803     | 50.000    | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.775  | 114   | 10205    | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.581 | 117   | 12391    | 50.000    | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.522 | 152   | 6173     | 50.000    | ug/l        | 0.00     |
|                               |        |       |          |           |             |          |
| System Monitoring Compounds   |        |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.228  | 65    | 7610     | 124.847   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 249.700%# |          |
| 35) Dibromofluoromethane      | 7.799  | 113   | 7815     | 120.611   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 241.220%# |          |
| 50) Toluene-d8                | 10.269 | 98    | 11546    | 44.755    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 89.520%   |          |
| 62) 4-Bromofluorobenzene      | 12.569 | 95    | 4618     | 67.641    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | = 135.280%  |          |
|                               |        |       |          |           |             |          |
| Target Compounds              |        |       |          |           |             |          |
|                               |        |       |          |           | Qvalue      |          |
| 3) Chloromethane              | 2.140  | 50    | 627      | 4.953     | ug/l #      | 61       |
| 5) Bromomethane               | 2.687  | 94    | 876      | 8.126     | ug/l        | 94       |
| 10) Methyl Iodide             | 4.193  | 142   | 423      | 4.308     | ug/l #      | 46       |
| 20) Methylene Chloride        | 4.805  | 84    | 72       | Below Cal | #           | 17       |
| 36) 1,1-Dichloropropene       | 7.863  | 75    | 422      | 4.533     | ug/l #      | 39       |
| 38) Carbon Tetrachloride      | 7.875  | 117   | 452      | 5.539     | ug/l #      | 11       |
| 76) 1,2,3-Trichloropropane    | 12.569 | 75    | 2524     | 43.802    | ug/l #      | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.569 | 75    | 2524     | 104.909   | ug/l #      | 17       |
| 95) Naphthalene               | 15.333 | 128   | 61       | 3.551     | ug/l #      | 69       |
| -----                         |        |       |          |           |             |          |

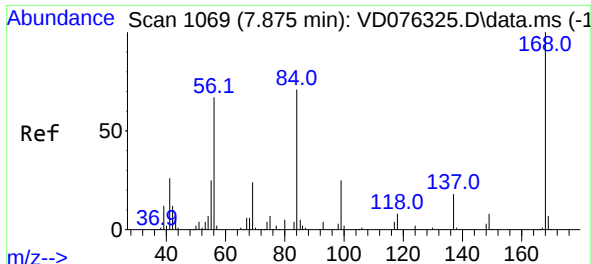
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : 03051-01  
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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
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Quant Title : SW846 8260  
QLast Update : Tue Jun 06 02:52:23 2023  
Response via : Initial Calibration

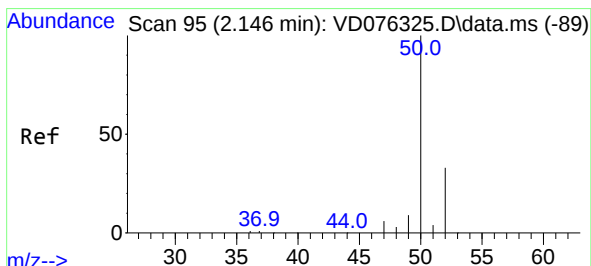
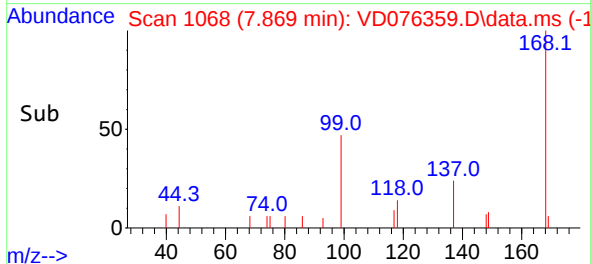
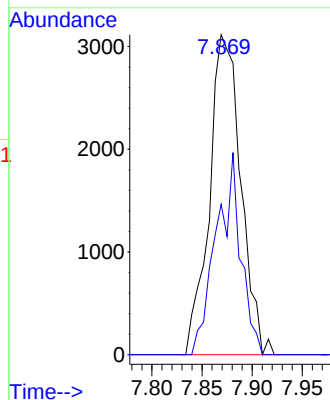
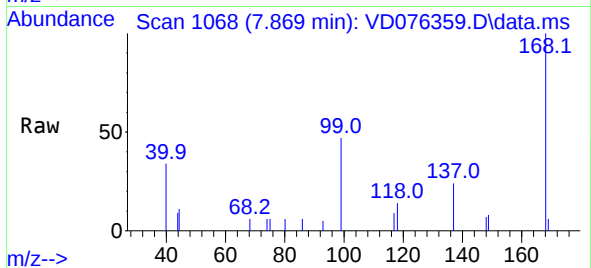




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.869 min Scan# 1069  
Delta R.T. -0.006 min  
Lab File: VD076359.D  
Acq: 07 Jun 2023 17:49

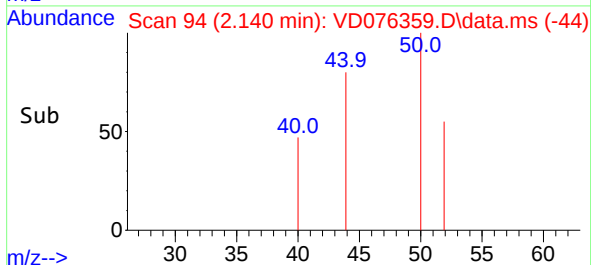
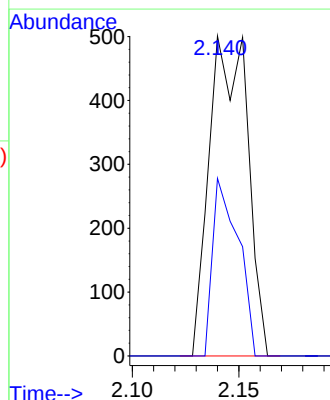
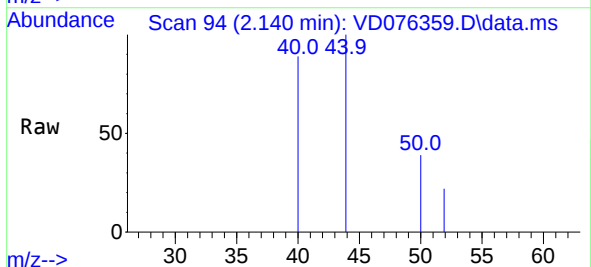
Instrument :  
MSVOA\_D  
ClientSampleId :  
RBR-251580

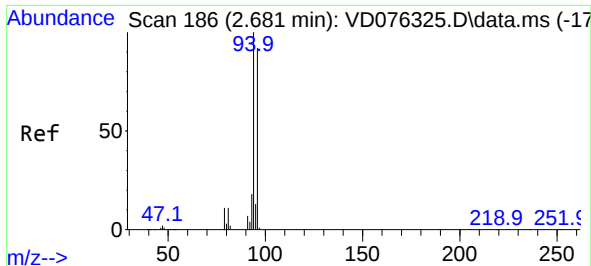
Tgt Ion:168 Resp: 6803  
Ion Ratio Lower Upper  
168 100  
99 47.0 36.7 55.1



#3  
Chloromethane  
Concen: 4.953 ug/l  
RT: 2.140 min Scan# 94  
Delta R.T. -0.006 min  
Lab File: VD076359.D  
Acq: 07 Jun 2023 17:49

Tgt Ion: 50 Resp: 627  
Ion Ratio Lower Upper  
50 100  
52 55.5 26.6 40.0#

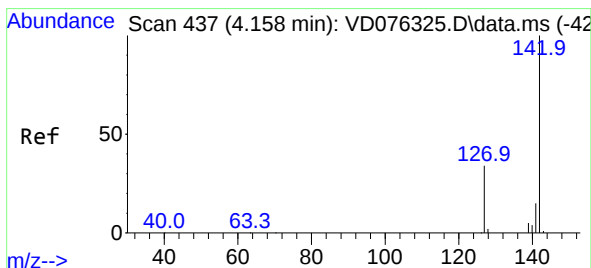
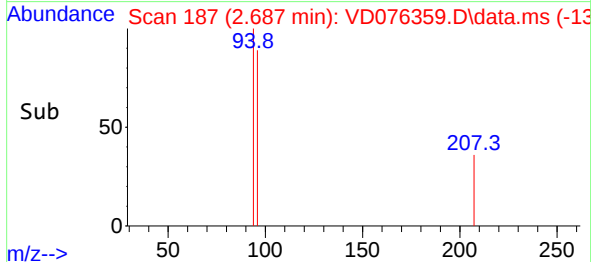
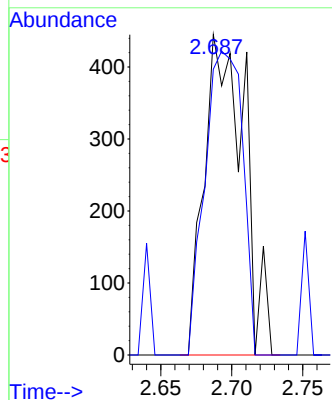
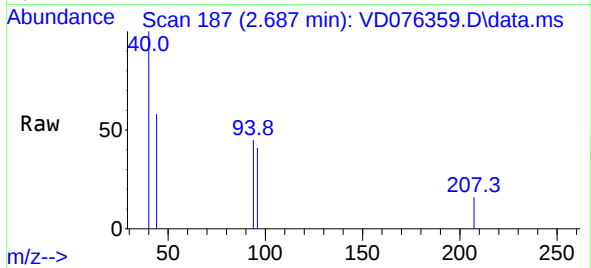




#5  
Bromomethane  
Concen: 8.126 ug/l  
RT: 2.687 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VD076359.D  
Acq: 07 Jun 2023 17:49

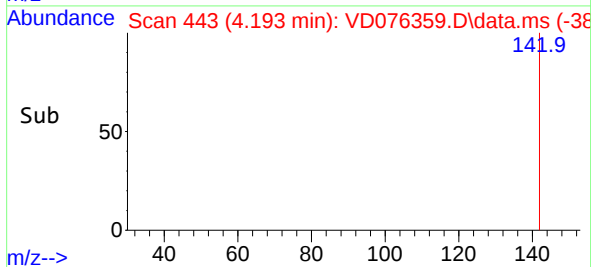
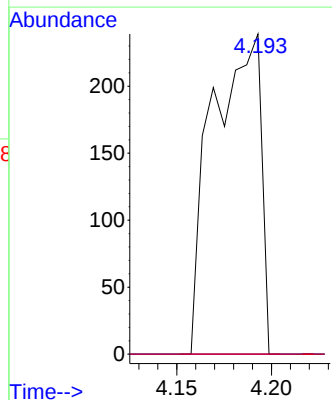
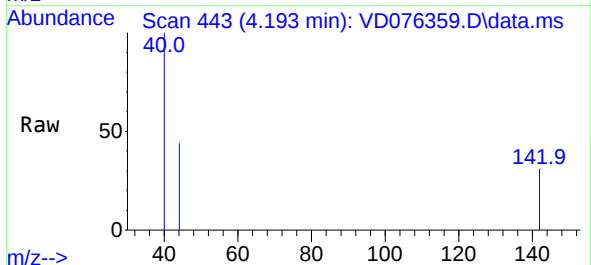
Instrument :  
MSVOA\_D  
ClientSampleId :  
RBR-251580

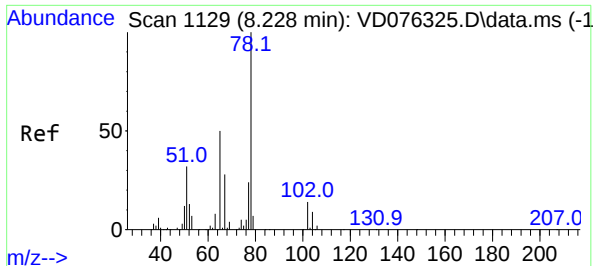
Tgt Ion: 94 Resp: 876  
Ion Ratio Lower Upper  
94 100  
96 89.3 75.8 113.8



#10  
Methyl Iodide  
Concen: 4.308 ug/l  
RT: 4.193 min Scan# 443  
Delta R.T. 0.035 min  
Lab File: VD076359.D  
Acq: 07 Jun 2023 17:49

Tgt Ion:142 Resp: 423  
Ion Ratio Lower Upper  
142 100  
127 0.0 29.4 44.0#  
141 0.0 11.1 16.7#

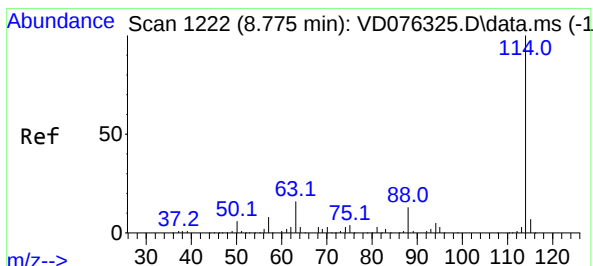
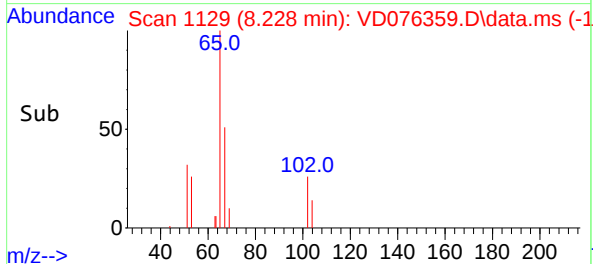
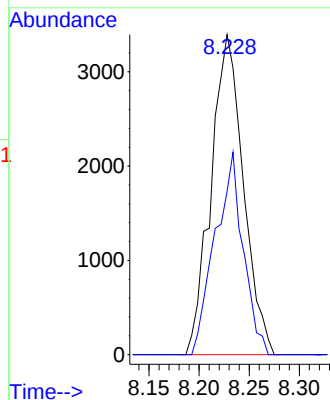
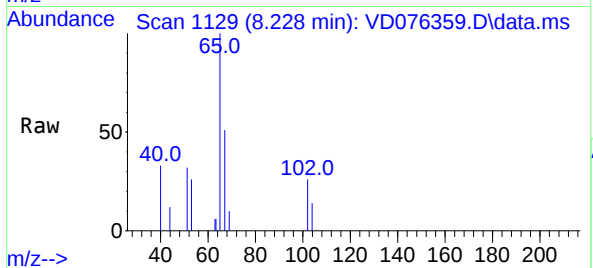




#33  
1,2-Dichloroethane-d4  
Concen: 124.847 ug/l  
RT: 8.228 min Scan# 1129  
Delta R.T. -0.000 min  
Lab File: VD076359.D  
Acq: 07 Jun 2023 17:49

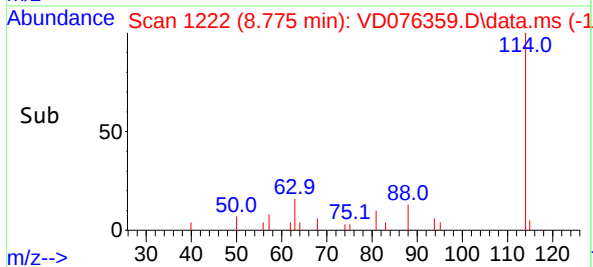
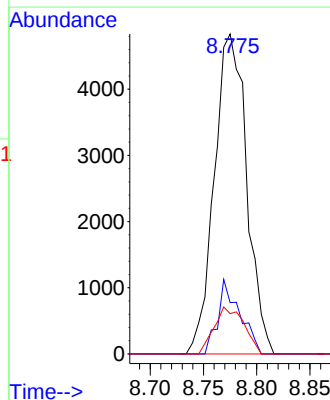
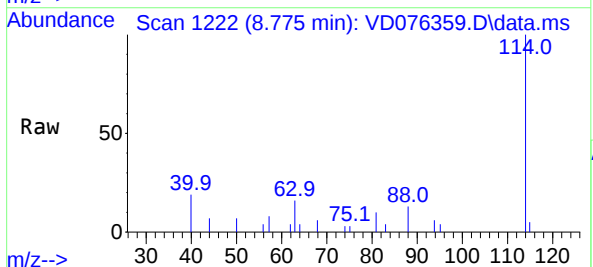
Instrument :  
MSVOA\_D  
ClientSampleId :  
RBR-251580

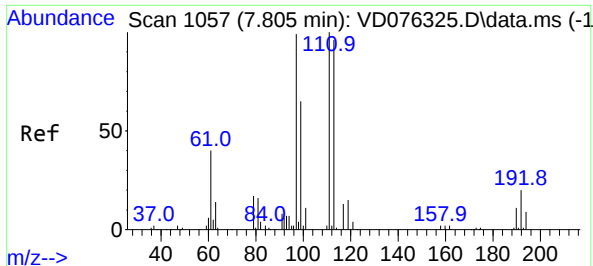
Tgt Ion: 65 Resp: 7610  
Ion Ratio Lower Upper  
65 100  
67 54.8 0.0 115.0



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.775 min Scan# 1222  
Delta R.T. -0.000 min  
Lab File: VD076359.D  
Acq: 07 Jun 2023 17:49

Tgt Ion: 114 Resp: 10205  
Ion Ratio Lower Upper  
114 100  
63 16.0 0.0 33.4  
88 12.6 0.0 26.2





#35

Dibromofluoromethane

Concen: 120.611 ug/l

RT: 7.799 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VD076359.D

Acq: 07 Jun 2023 17:49

Instrument :

MSVOA\_D

ClientSampleId :

RBR-251580

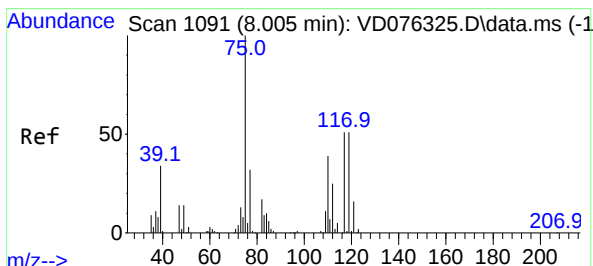
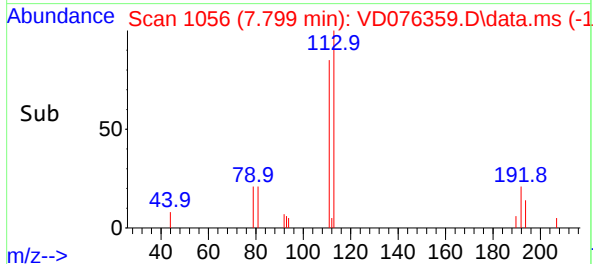
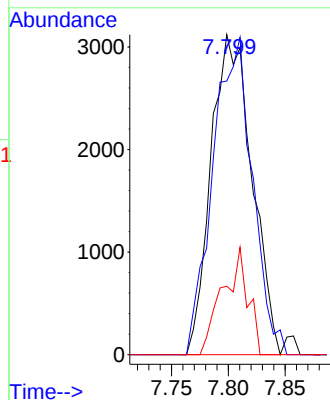
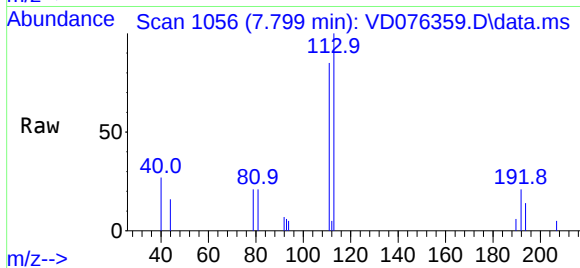
Tgt Ion:113 Resp: 7815

Ion Ratio Lower Upper

113 100

111 95.9 84.7 127.1

192 20.7 16.8 25.2



#36

1,1-Dichloropropene

Concen: 4.533 ug/l

RT: 7.863 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VD076359.D

Acq: 07 Jun 2023 17:49

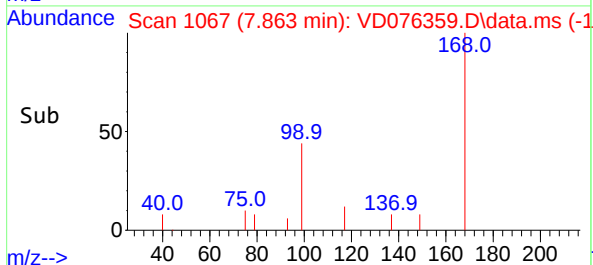
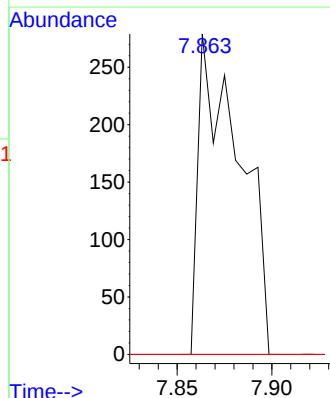
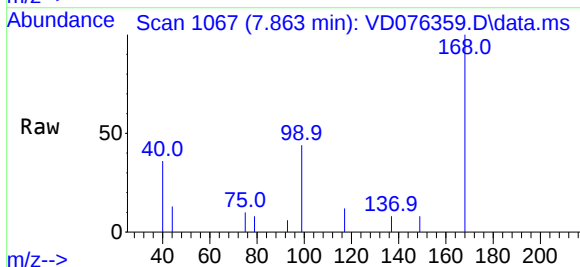
Tgt Ion: 75 Resp: 422

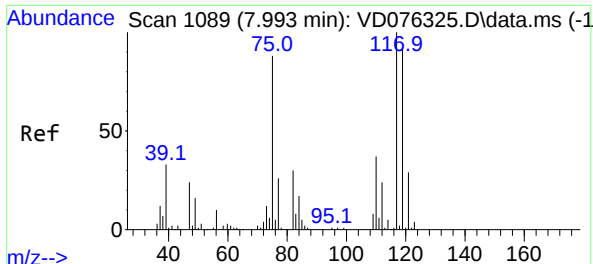
Ion Ratio Lower Upper

75 100

110 0.0 19.9 59.6#

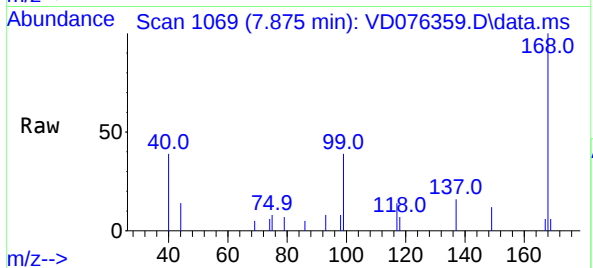
77 0.0 24.7 37.1#



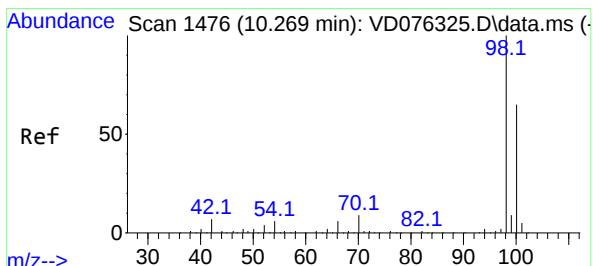
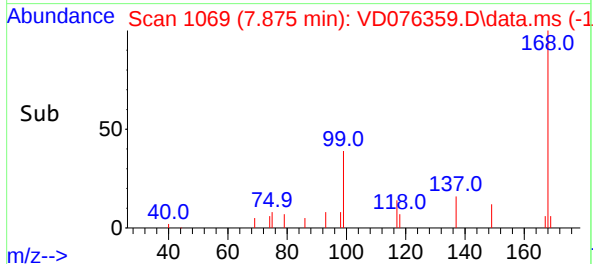
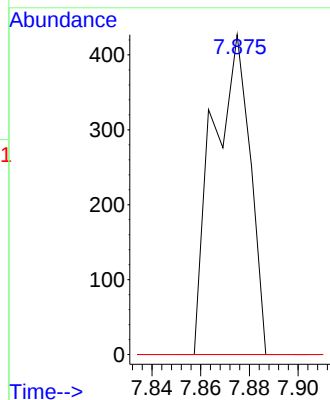


#38  
Carbon Tetrachloride  
Concen: 5.539 ug/l  
RT: 7.875 min Scan# 1089  
Delta R.T. -0.118 min  
Lab File: VD076359.D  
Acq: 07 Jun 2023 17:49

Instrument :  
MSVOA\_D  
ClientSampleId :  
RBR-251580

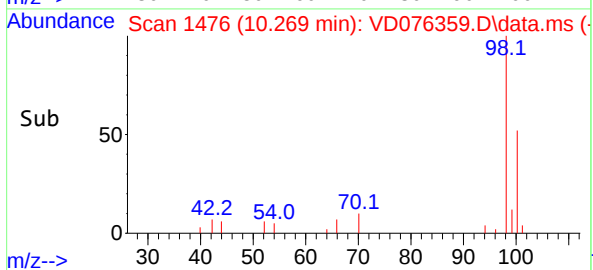
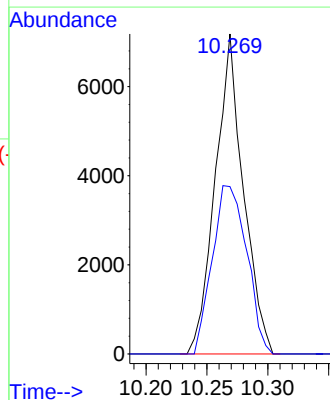
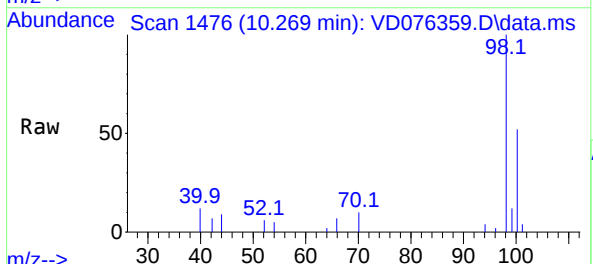


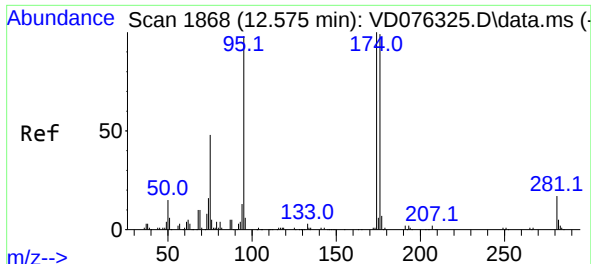
Tgt Ion:117 Resp: 452  
Ion Ratio Lower Upper  
117 100  
119 0.0 78.0 117.0#  
121 0.0 24.2 36.2#



#50  
Toluene-d8  
Concen: 44.755 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: VD076359.D  
Acq: 07 Jun 2023 17:49

Tgt Ion: 98 Resp: 11546  
Ion Ratio Lower Upper  
98 100  
100 64.4 50.3 75.5

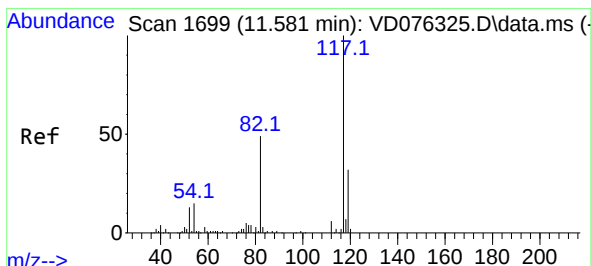
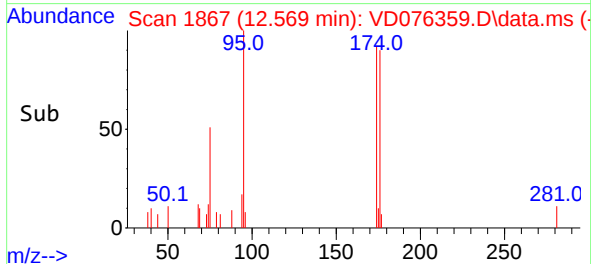
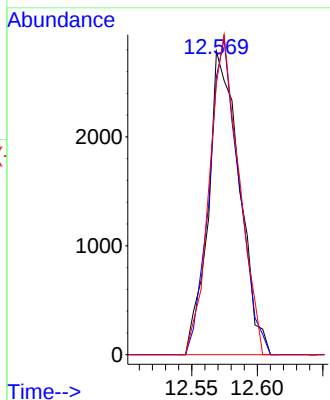
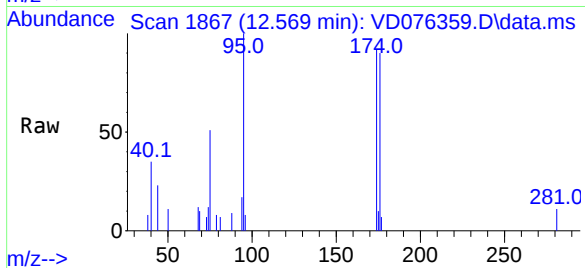




#62  
4-Bromofluorobenzene  
Concen: 67.641 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. -0.006 min  
Lab File: VD076359.D  
Acq: 07 Jun 2023 17:49

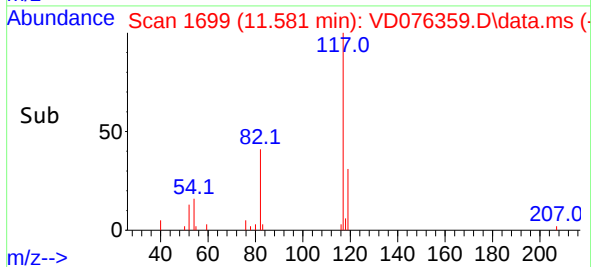
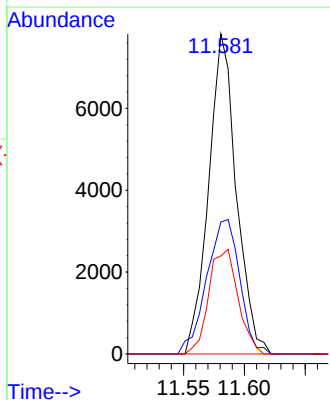
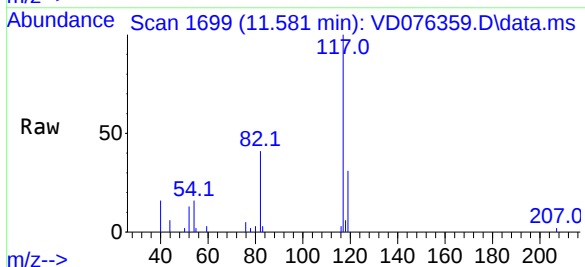
Instrument :  
MSVOA\_D  
ClientSampleId :  
RBR-251580

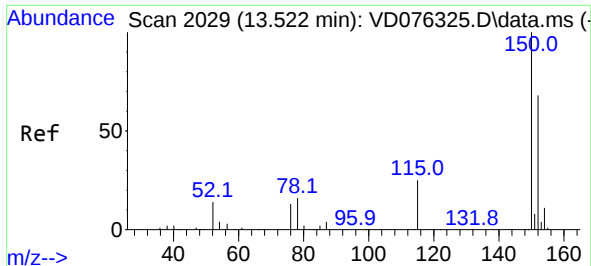
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 4618  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 99.5  | 0.0   | 201.8 |
| 176      | 100.2 | 0.0   | 191.8 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1699  
Delta R.T. -0.000 min  
Lab File: VD076359.D  
Acq: 07 Jun 2023 17:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 12391 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 41.2  | 38.3  | 57.5  |
| 119      | 30.6  | 25.0  | 37.4  |

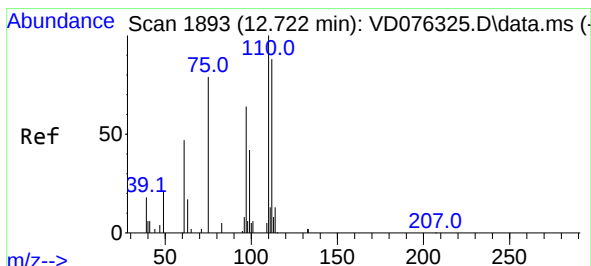
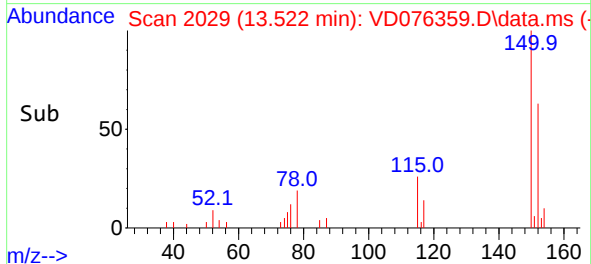
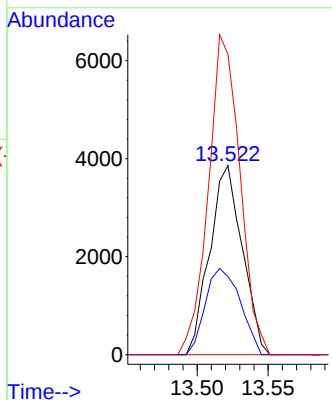
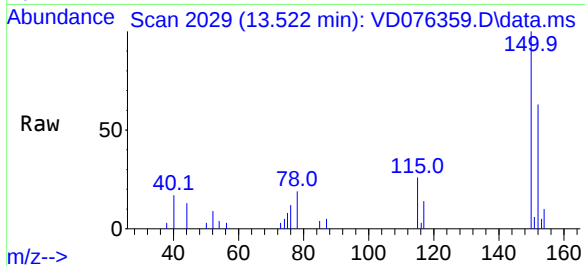




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.522 min Scan# 2029  
 Delta R.T. -0.000 min  
 Lab File: VD076359.D  
 Acq: 07 Jun 2023 17:49

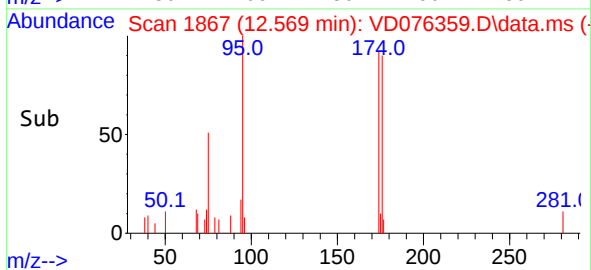
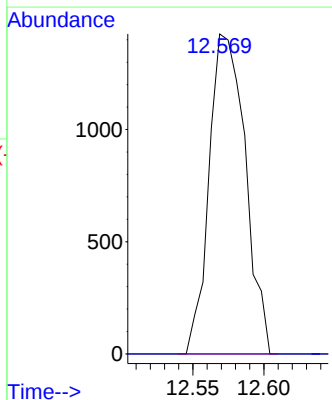
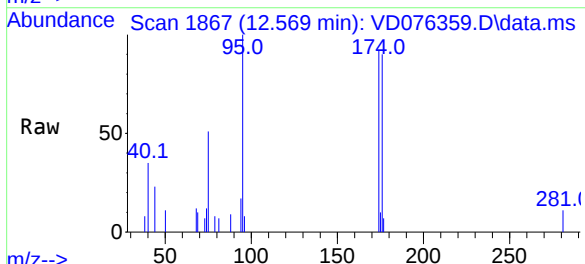
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RBR-251580

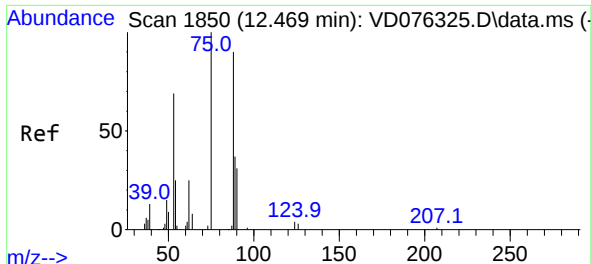
Tgt Ion:152 Resp: 6173  
 Ion Ratio Lower Upper  
 152 100  
 115 48.8 27.1 81.3  
 150 163.6 0.0 353.6



#76  
 1,2,3-Trichloropropane  
 Concen: 43.802 ug/l  
 RT: 12.569 min Scan# 1867  
 Delta R.T. -0.153 min  
 Lab File: VD076359.D  
 Acq: 07 Jun 2023 17:49

Tgt Ion: 75 Resp: 2524  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 0.0 0.0

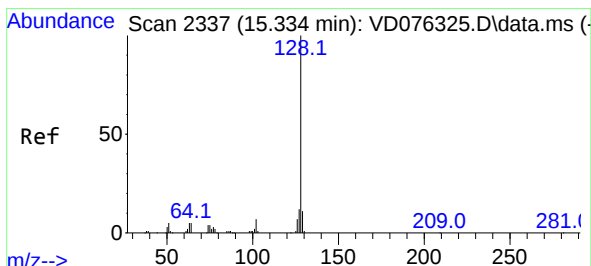
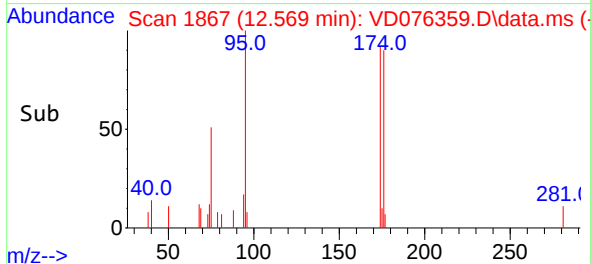
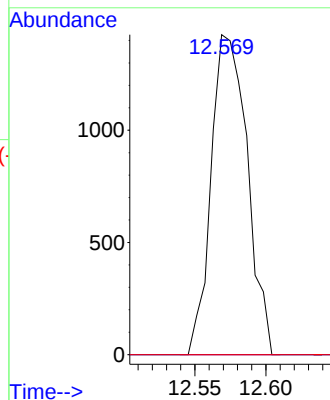
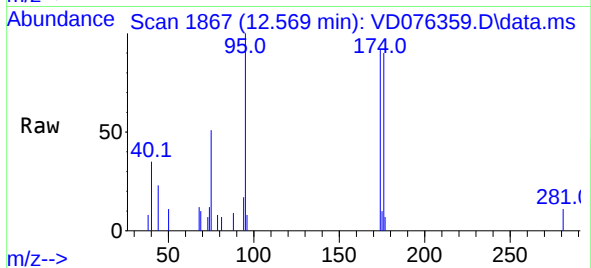




#81  
trans-1,4-Dichloro-2-butene  
Concen: 104.909 ug/l  
RT: 12.569 min Scan# 1850  
Delta R.T. 0.100 min  
Lab File: VD076359.D  
Acq: 07 Jun 2023 17:49

Instrument :  
MSVOA\_D  
ClientSampleId :  
RBR-251580

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 75 | Resp: | 2524        |
| Ion         | Ratio | Lower Upper |
| 75          | 100   |             |
| 53          | 0.0   | 63.0 94.4#  |
| 89          | 0.0   | 37.9 56.9#  |



#95  
Naphthalene  
Concen: 3.551 ug/l  
RT: 15.333 min Scan# 2337  
Delta R.T. -0.001 min  
Lab File: VD076359.D  
Acq: 07 Jun 2023 17:49

|              |       |             |
|--------------|-------|-------------|
| Tgt Ion: 128 | Resp: | 61          |
| Ion          | Ratio | Lower Upper |
| 128          | 100   |             |
| 127          | 0.0   | 10.5 15.7#  |
| 129          | 0.0   | 8.7 13.1#   |

