

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD102523\  
 Data File : VD077412.D  
 Acq On : 25 Oct 2023 14:19  
 Operator : JC/SY  
 Sample : 05011-03RE  
 Misc : 5.08G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RBR-200010RE

Quant Time: Oct 26 06:59:32 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D101723S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 18 03:02:43 2023  
 Response via : Initial Calibration

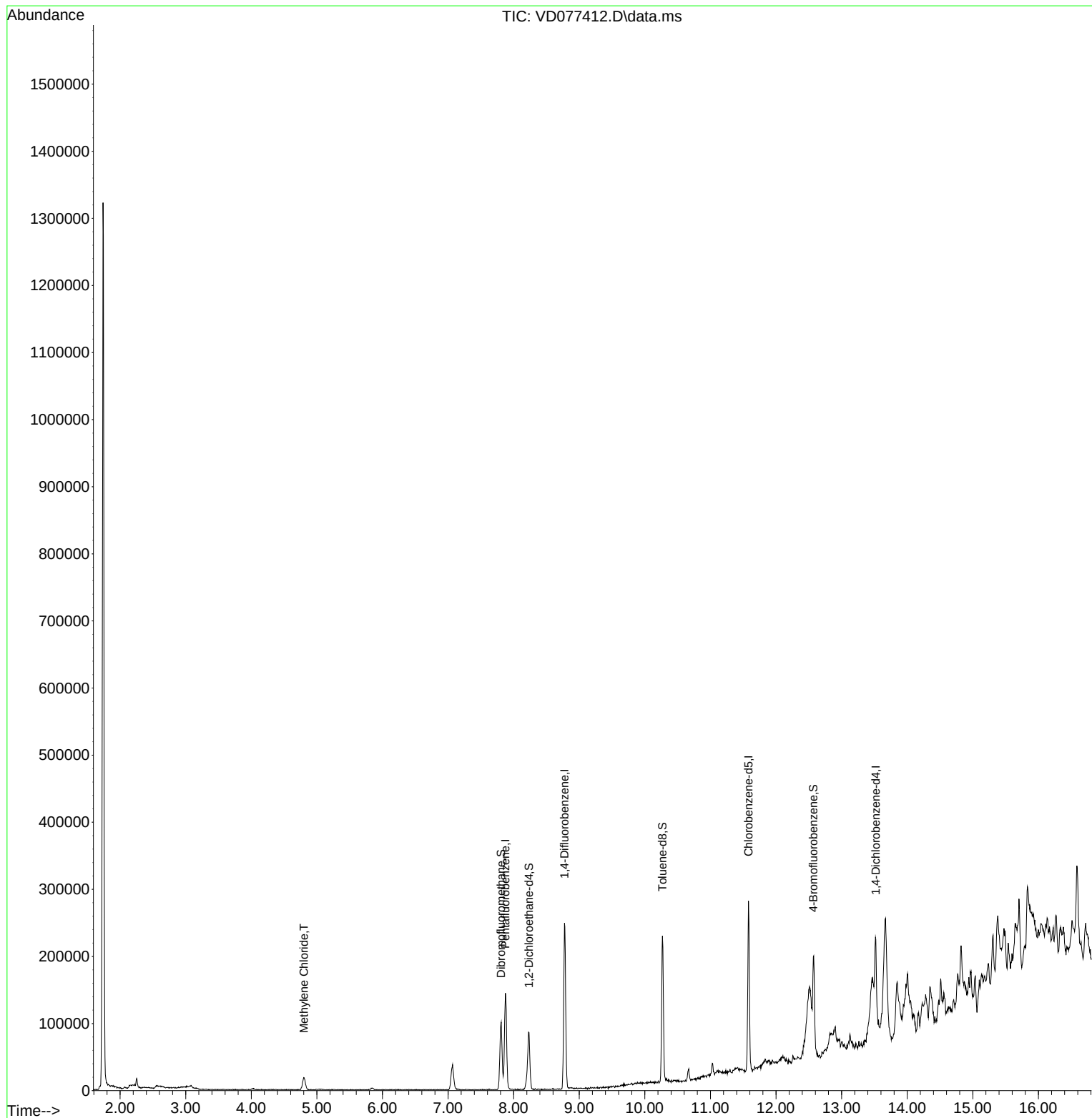
| Compound                    | R.T.   | QIon  | Response | Conc     | Units | Dev(Min)  |
|-----------------------------|--------|-------|----------|----------|-------|-----------|
| -----                       |        |       |          |          |       |           |
| Internal Standards          |        |       |          |          |       |           |
| 1) Pentafluorobenzene       | 7.875  | 168   | 115725   | 50.000   | ug/l  | 0.00      |
| 34) 1,4-Difluorobenzene     | 8.775  | 114   | 237748   | 50.000   | ug/l  | 0.00      |
| 63) Chlorobenzene-d5        | 11.581 | 117   | 154225   | 50.000   | ug/l  | 0.00      |
| 72) 1,4-Dichlorobenzene-d4  | 13.522 | 152   | 34710    | 50.000   | ug/l  | 0.00      |
|                             |        |       |          |          |       |           |
| System Monitoring Compounds |        |       |          |          |       |           |
| 33) 1,2-Dichloroethane-d4   | 8.234  | 65    | 63089    | 61.053   | ug/l  | 0.00      |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =     | 122.100%  |
| 35) Dibromofluoromethane    | 7.810  | 113   | 74422    | 44.557   | ug/l  | 0.00      |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =     | 89.120%   |
| 50) Toluene-d8              | 10.269 | 98    | 163128   | 27.271   | ug/l  | 0.00      |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =     | 54.540%#  |
| 62) 4-Bromofluorobenzene    | 12.569 | 95    | 43150    | 25.059   | ug/l  | 0.00      |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =     | 50.120%   |
|                             |        |       |          |          |       |           |
| Target Compounds            |        |       |          |          |       |           |
| 20) Methylene Chloride      | 4.805  | 84    | 16040    | 7.655    | ug/l  | Qvalue 94 |
| -----                       |        |       |          |          |       |           |

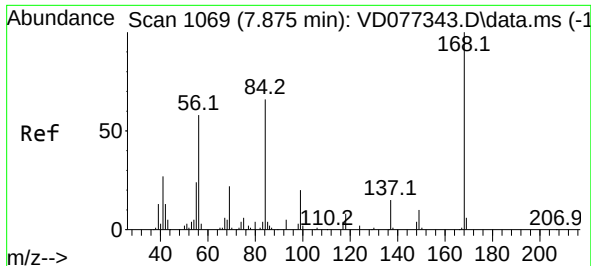
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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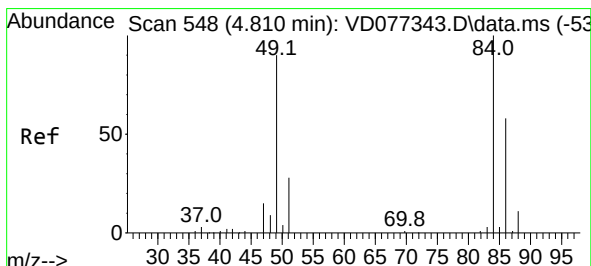
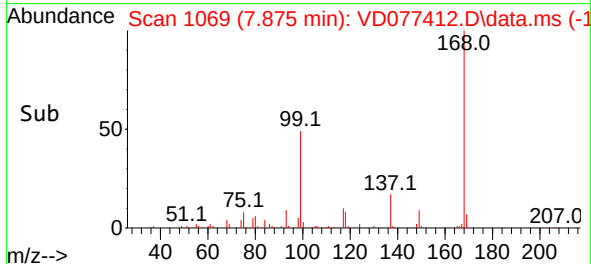
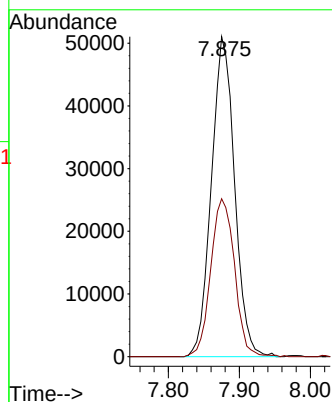
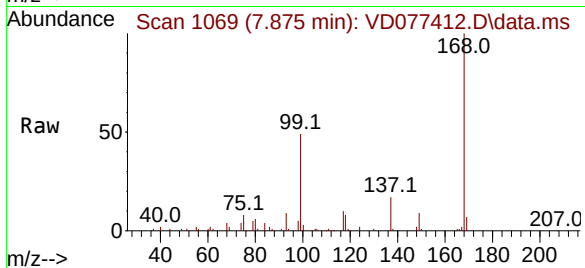




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD077412.D  
Acq: 25 Oct 2023 14:19

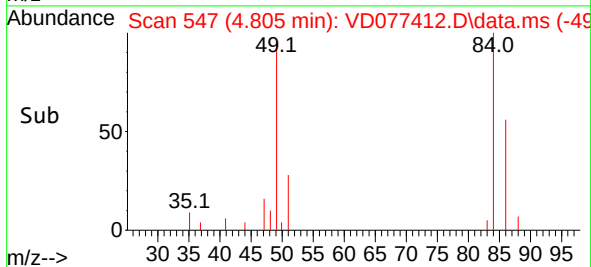
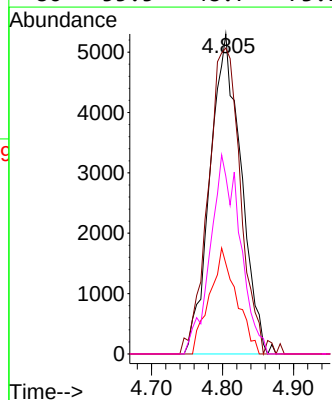
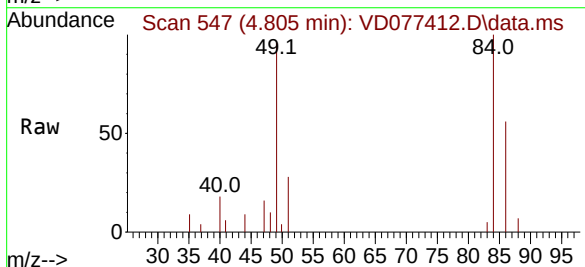
Instrument :  
MSVOA\_D  
ClientSampleId :  
RBR-200010RE

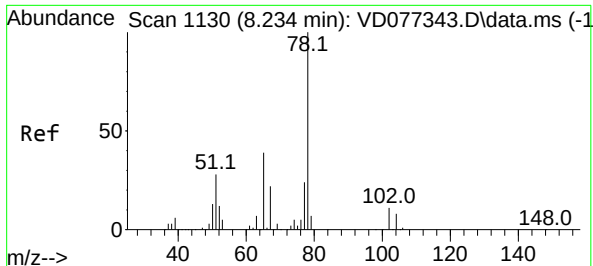
Tgt Ion:168 Resp: 115725  
Ion Ratio Lower Upper  
168 100  
99 49.3 36.7 55.1



#20  
Methylene Chloride  
Concen: 7.655 ug/l  
RT: 4.805 min Scan# 547  
Delta R.T. -0.005 min  
Lab File: VD077412.D  
Acq: 25 Oct 2023 14:19

Tgt Ion: 84 Resp: 16040  
Ion Ratio Lower Upper  
84 100  
49 95.6 71.4 107.2  
51 28.3 24.5 36.7  
86 55.5 48.7 73.1





#33

1,2-Dichloroethane-d4

Concen: 61.053 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VD077412.D

Acq: 25 Oct 2023 14:19

Instrument :

MSVOA\_D

ClientSampleId :

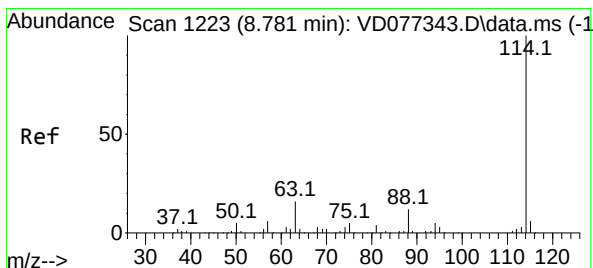
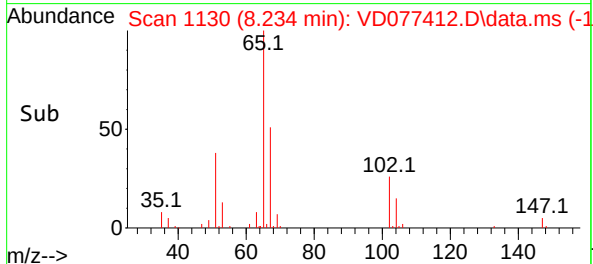
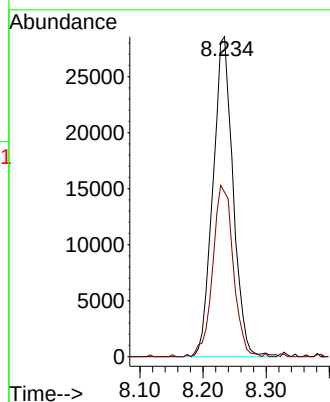
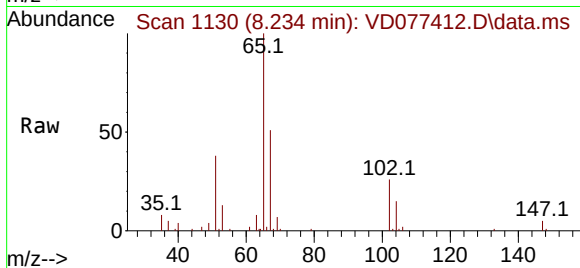
RBR-200010RE

Tgt Ion: 65 Resp: 63089

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. -0.006 min

Lab File: VD077412.D

Acq: 25 Oct 2023 14:19

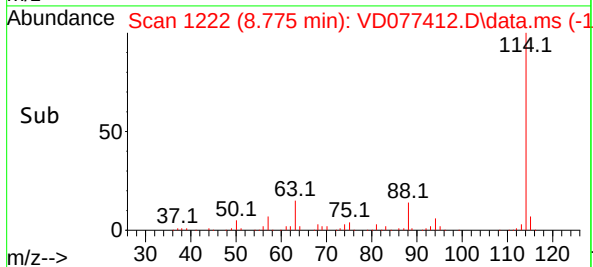
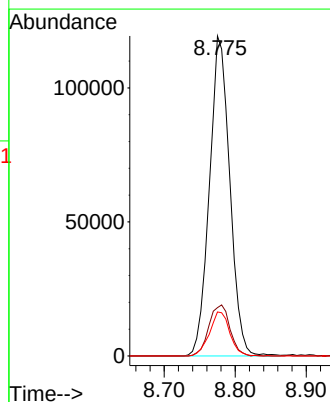
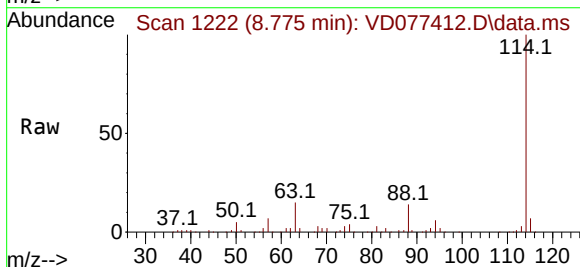
Tgt Ion: 114 Resp: 237748

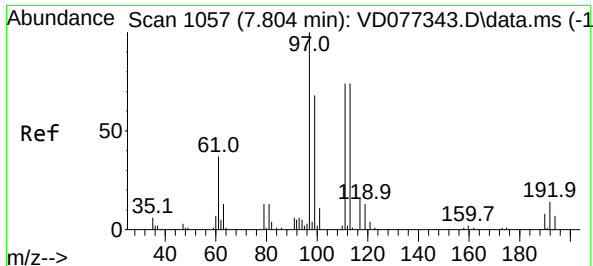
Ion Ratio Lower Upper

114 100

63 15.1 0.0 33.4

88 13.7 0.0 26.2





#35

Dibromofluoromethane

Concen: 44.557 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VD077412.D

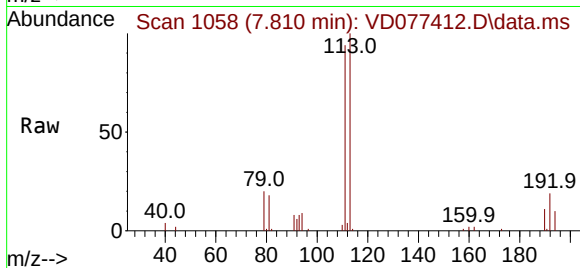
Acq: 25 Oct 2023 14:19

Instrument :

MSVOA\_D

ClientSampleId :

RBR-200010RE



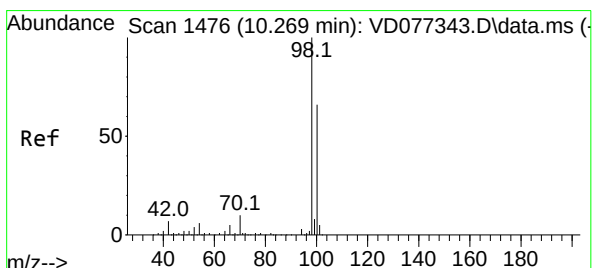
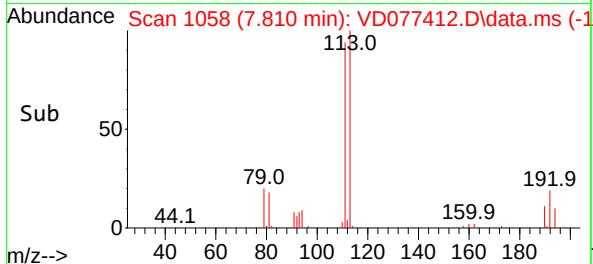
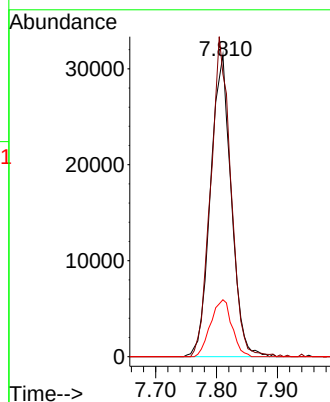
Tgt Ion:113 Resp: 74422

Ion Ratio Lower Upper

113 100

111 102.9 84.7 127.1

192 19.3 16.8 25.2



#50

Toluene-d8

Concen: 27.271 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD077412.D

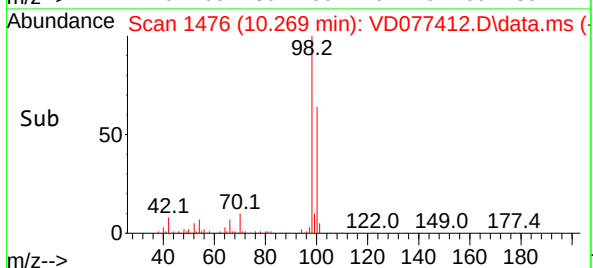
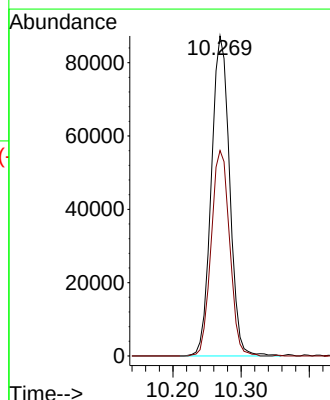
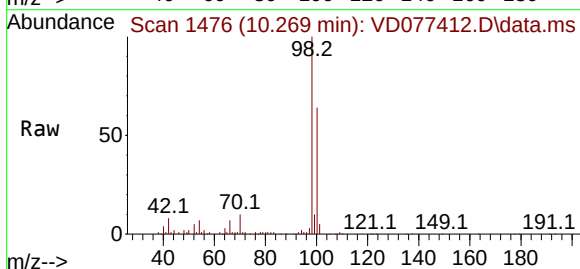
Acq: 25 Oct 2023 14:19

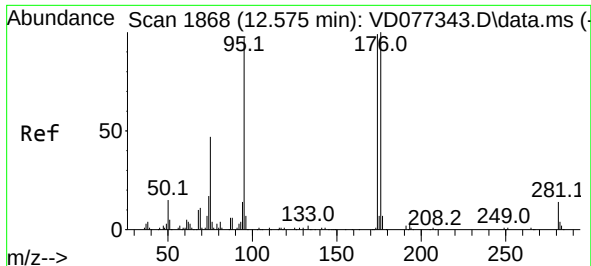
Tgt Ion: 98 Resp: 163128

Ion Ratio Lower Upper

98 100

100 64.6 50.3 75.5

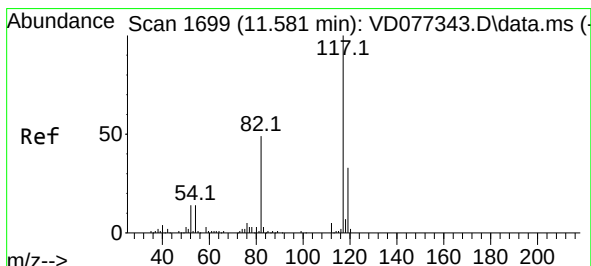
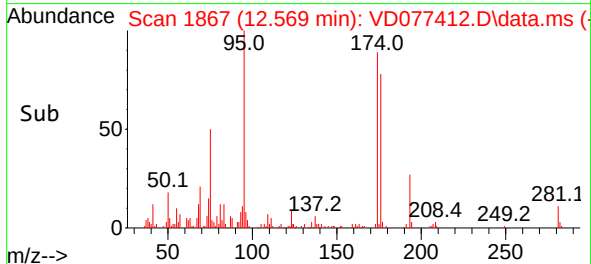
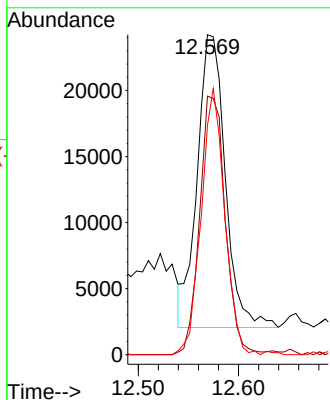
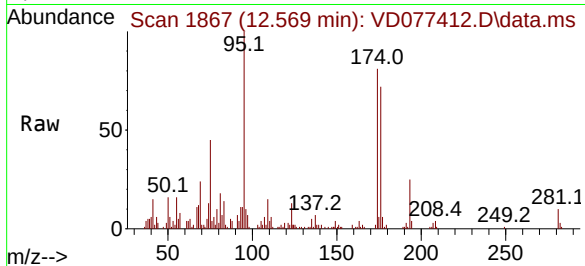




#62  
4-Bromofluorobenzene  
Concen: 25.059 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. -0.006 min  
Lab File: VD077412.D  
Acq: 25 Oct 2023 14:19

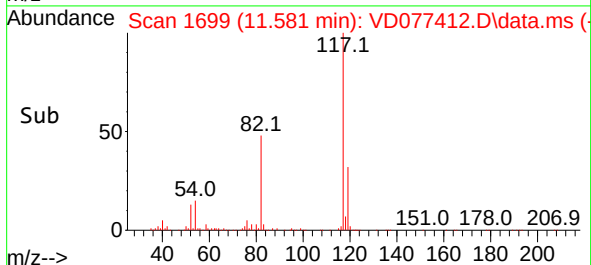
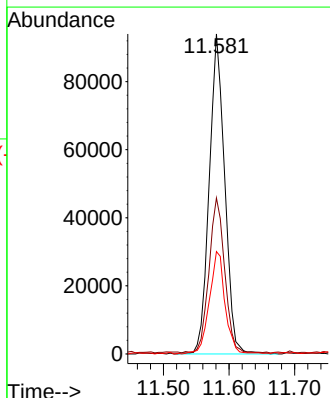
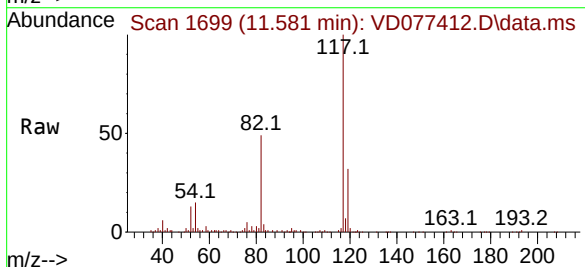
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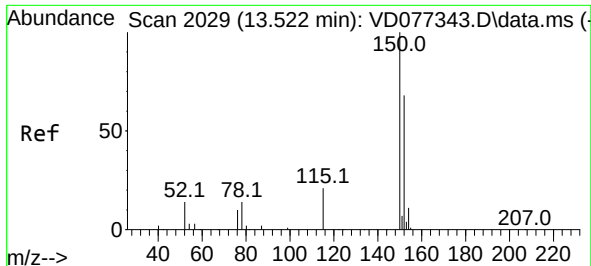
Tgt Ion: 95 Resp: 43150  
Ion Ratio Lower Upper  
95 100  
174 80.5 0.0 201.8  
176 75.9 0.0 191.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1699  
Delta R.T. -0.000 min  
Lab File: VD077412.D  
Acq: 25 Oct 2023 14:19

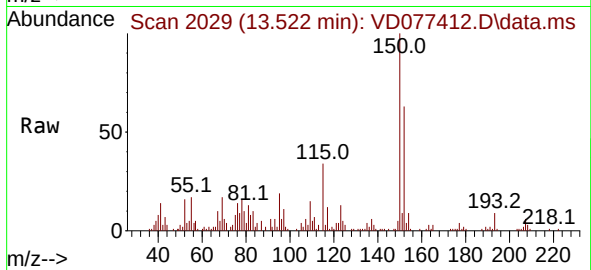
Tgt Ion:117 Resp: 154225  
Ion Ratio Lower Upper  
117 100  
82 48.1 38.3 57.5  
119 31.8 25.0 37.4





#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.522 min Scan# 20  
 Delta R.T. 0.000 min  
 Lab File: VD077412.D  
 Acq: 25 Oct 2023 14:19

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RBR-200010RE



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 49.3  | 27.1  | 81.3  |
| 150     | 148.4 | 0.0   | 353.6 |

