

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052523\  
 Data File : VD076245.D  
 Acq On : 25 May 2023 21:08  
 Operator : KP/SY  
 Sample : 02922-01  
 Misc : 5.05G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ORA-1618

Quant Time: May 26 02:01:31 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051523S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 16 10:08:53 2023  
 Response via : Initial Calibration

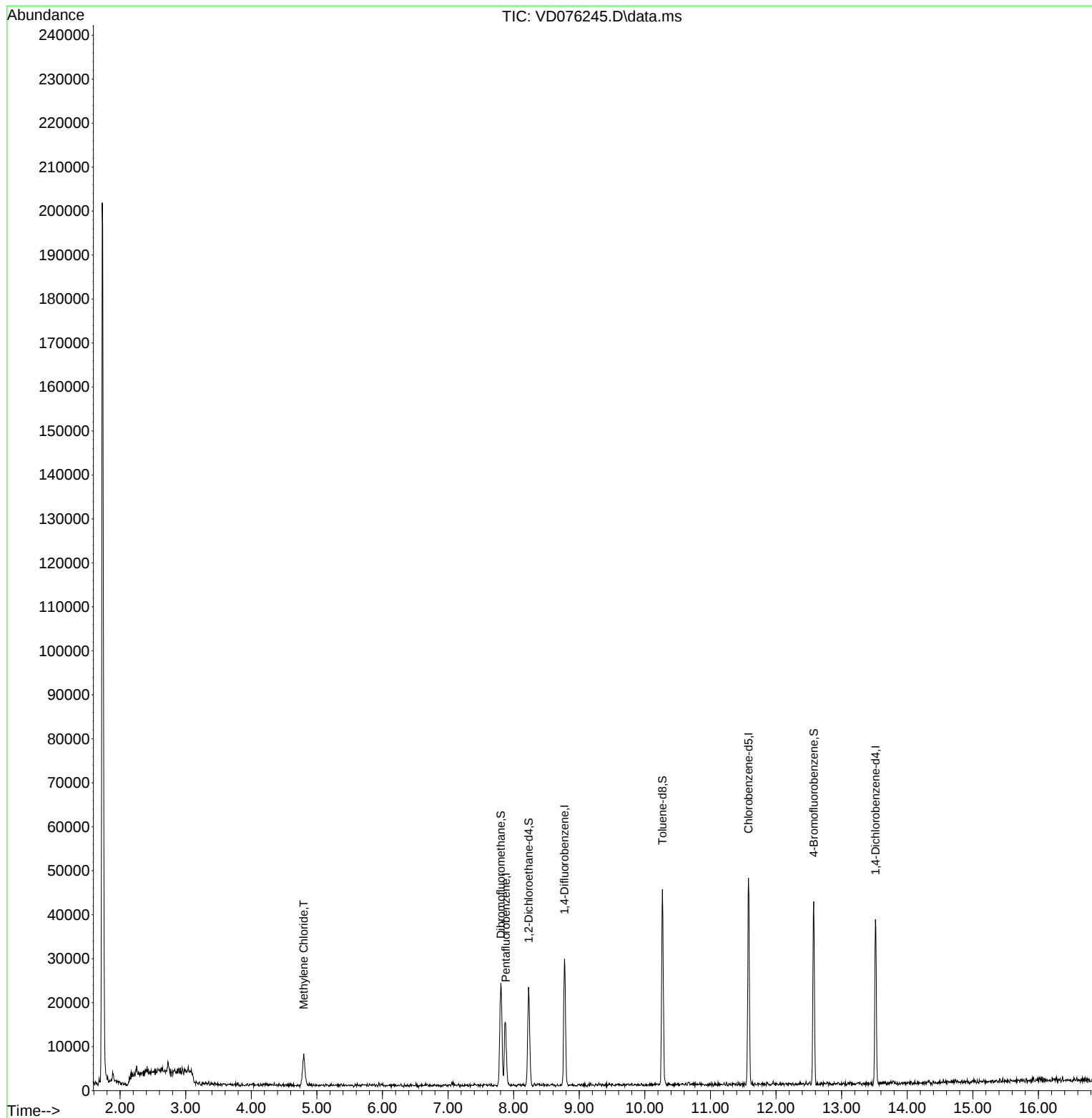
| Compound                    | R.T.   | QIon           | Response | Conc        | Units  | Dev(Min) |
|-----------------------------|--------|----------------|----------|-------------|--------|----------|
| -----                       |        |                |          |             |        |          |
| Internal Standards          |        |                |          |             |        |          |
| 1) Pentafluorobenzene       | 7.881  | 168            | 12750    | 50.000      | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.775  | 114            | 28073    | 50.000      | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.581 | 117            | 30202    | 50.000      | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.516 | 152            | 11550    | 50.000      | ug/l   | 0.00     |
| System Monitoring Compounds |        |                |          |             |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.228  | 65             | 16594    | 134.664     | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range 50 - 163 | Recovery | = 269.320%# |        |          |
| 35) Dibromofluoromethane    | 7.804  | 113            | 17819    | 91.829      | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range 54 - 147 | Recovery | = 183.660%# |        |          |
| 50) Toluene-d8              | 10.269 | 98             | 33237    | 43.939      | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range 58 - 134 | Recovery | = 87.880%   |        |          |
| 62) 4-Bromofluorobenzene    | 12.575 | 95             | 13059    | 62.148      | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range 30 - 143 | Recovery | = 124.300%  |        |          |
| Target Compounds            |        |                |          |             |        |          |
|                             |        |                |          |             | Qvalue |          |
| 20) Methylene Chloride      | 4.799  | 84             | 5060     | 20.390      | ug/l # | 77       |
| -----                       |        |                |          |             |        |          |

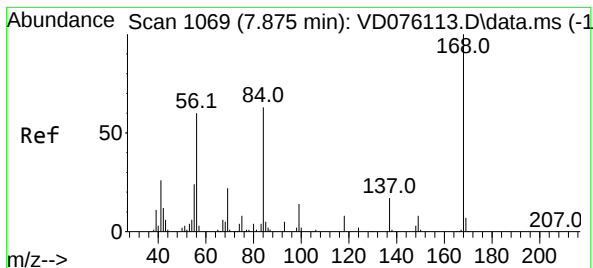
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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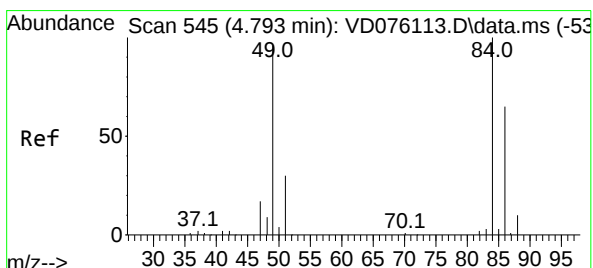
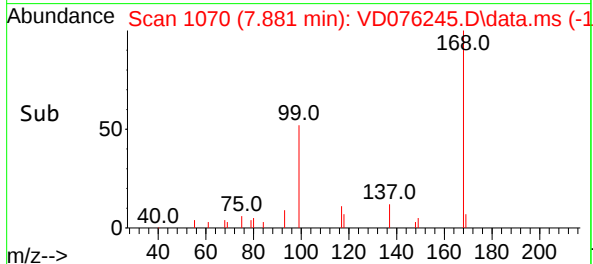
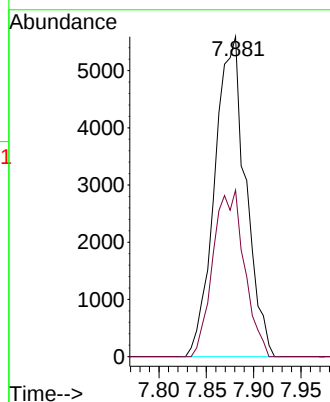
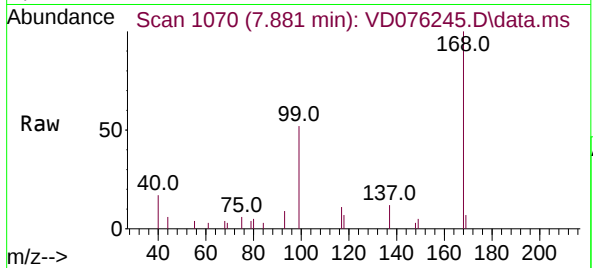




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.881 min Scan# 1069  
Delta R.T. 0.006 min  
Lab File: VD076245.D  
Acq: 25 May 2023 21:08

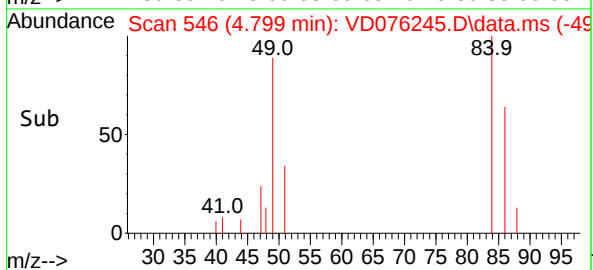
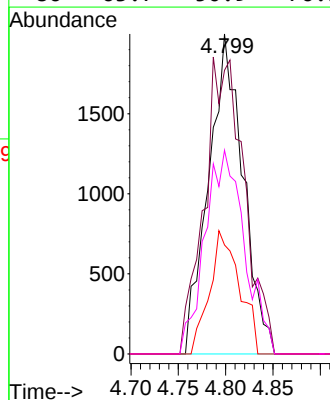
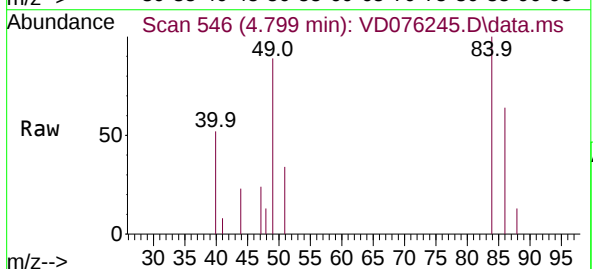
Instrument :  
MSVOA\_D  
ClientSampleId :  
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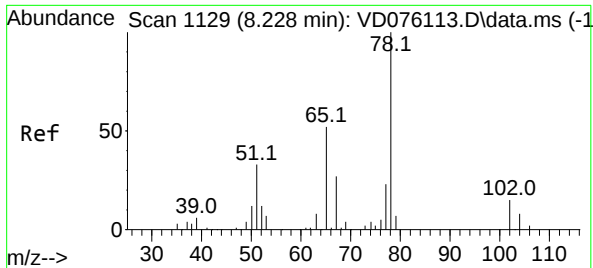
Tgt Ion:168 Resp: 12750  
Ion Ratio Lower Upper  
168 100  
99 52.0 43.8 65.6



#20  
Methylene Chloride  
Concen: 20.390 ug/l  
RT: 4.799 min Scan# 546  
Delta R.T. -0.000 min  
Lab File: VD076245.D  
Acq: 25 May 2023 21:08

Tgt Ion: 84 Resp: 5060  
Ion Ratio Lower Upper  
84 100  
49 88.6 106.4 159.6#  
51 34.0 32.4 48.6  
86 63.7 50.9 76.3





#33

1,2-Dichloroethane-d4

Concen: 134.664 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VD076245.D

Acq: 25 May 2023 21:08

Instrument :

MSVOA\_D

ClientSampleId :

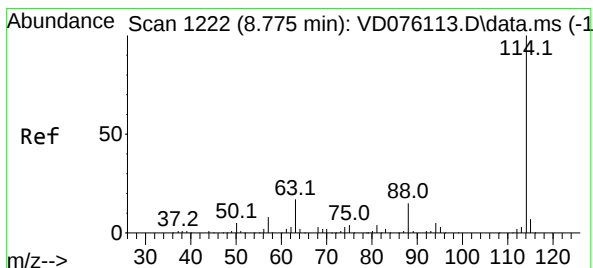
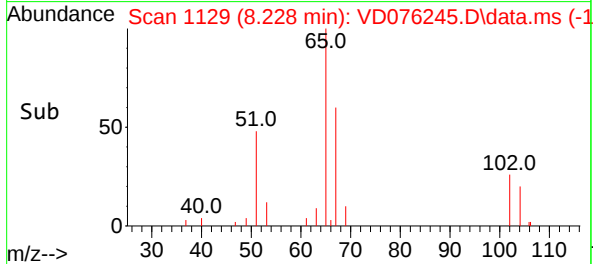
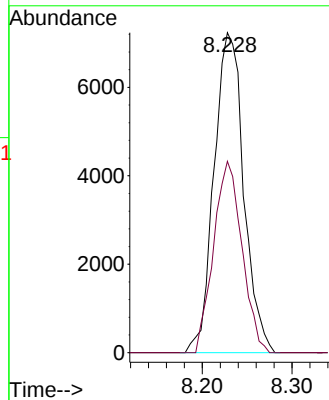
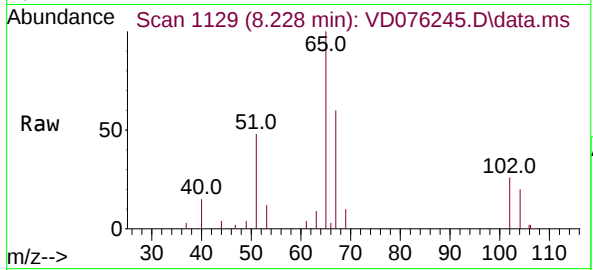
ORA-1618

Tgt Ion: 65 Resp: 16594

Ion Ratio Lower Upper

65 100

67 57.2 0.0 102.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.000 min

Lab File: VD076245.D

Acq: 25 May 2023 21:08

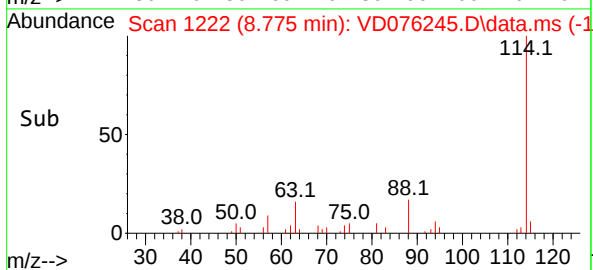
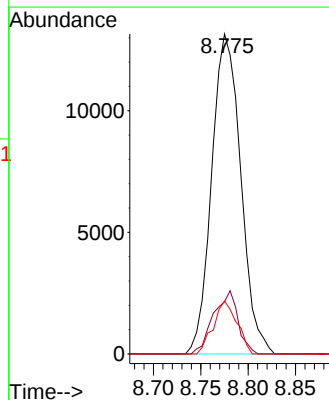
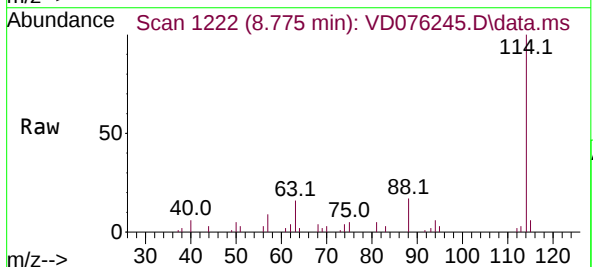
Tgt Ion: 114 Resp: 28073

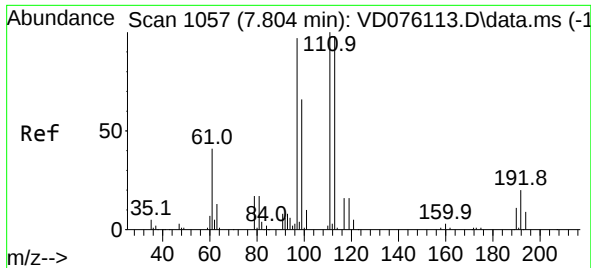
Ion Ratio Lower Upper

114 100

63 16.3 0.0 41.6

88 16.6 0.0 30.6

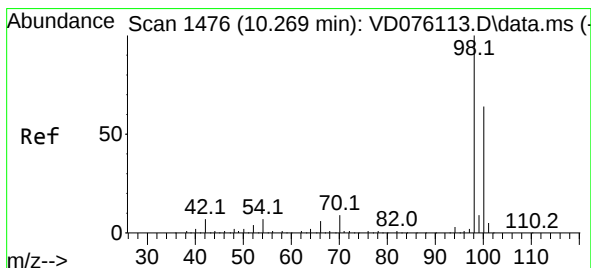
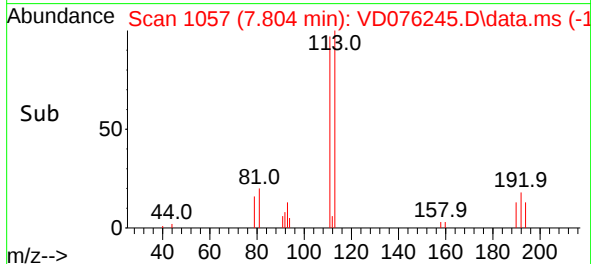
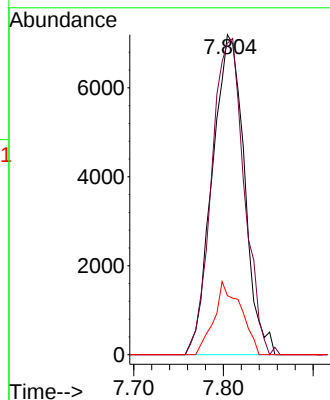
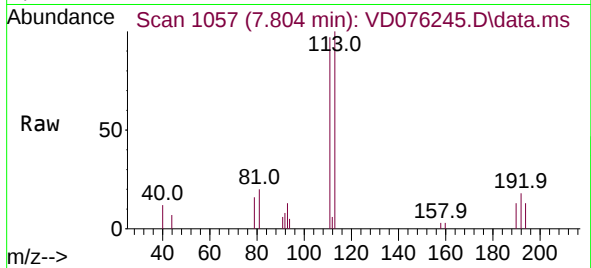




#35  
 Dibromofluoromethane  
 Concen: 91.829 ug/l  
 RT: 7.804 min Scan# 1057  
 Delta R.T. -0.001 min  
 Lab File: VD076245.D  
 Acq: 25 May 2023 21:08

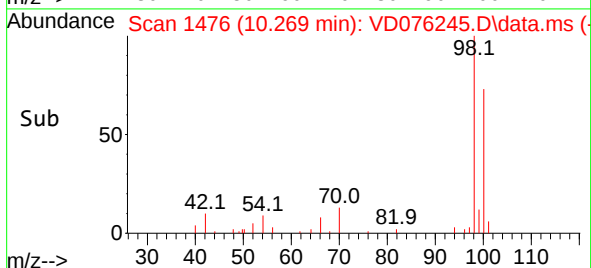
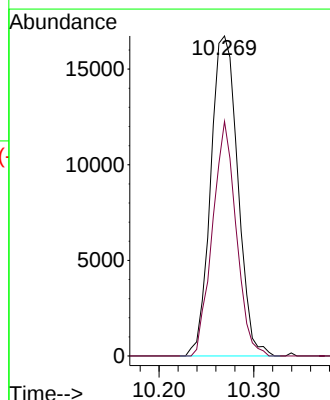
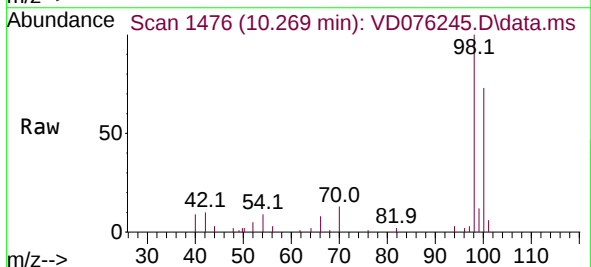
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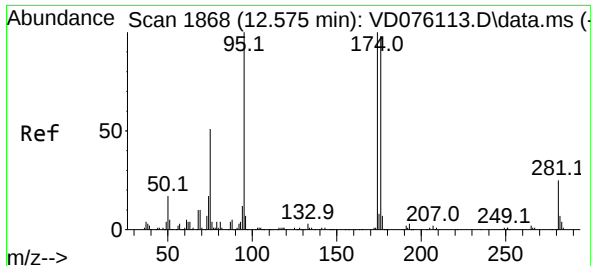
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 17819 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 100.5 | 81.4  | 122.0 |
| 192      | 19.1  | 15.2  | 22.8  |



#50  
 Toluene-d8  
 Concen: 43.939 ug/l  
 RT: 10.269 min Scan# 1476  
 Delta R.T. 0.000 min  
 Lab File: VD076245.D  
 Acq: 25 May 2023 21:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 98    | Resp: | 33237 |
| Ion      | Ratio | Lower | Upper |
| 98       | 100   |       |       |
| 100      | 64.3  | 52.1  | 78.1  |

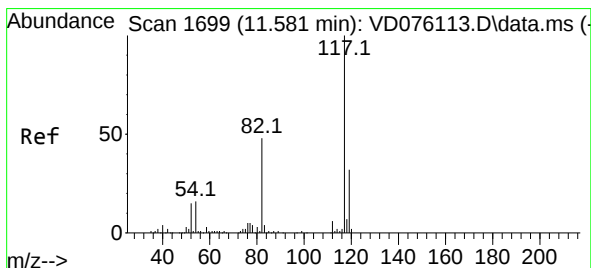
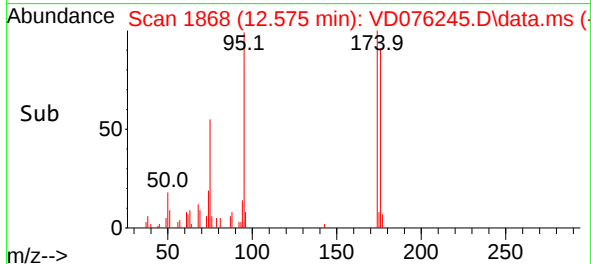
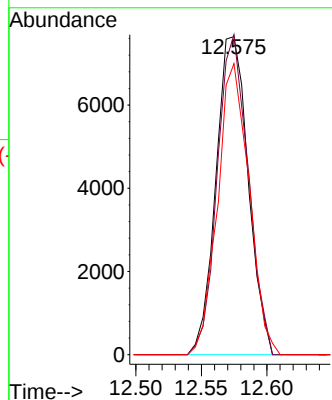
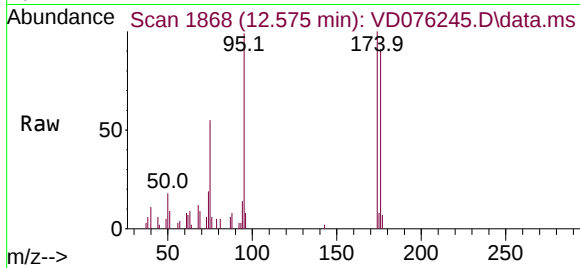




#62  
4-Bromofluorobenzene  
Concen: 62.148 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD076245.D  
Acq: 25 May 2023 21:08

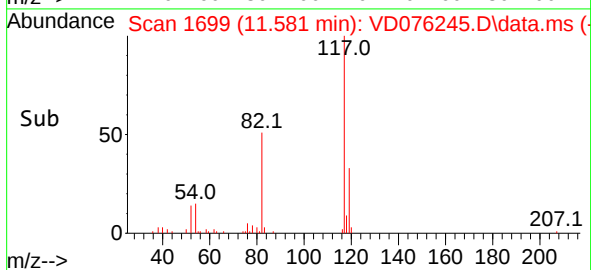
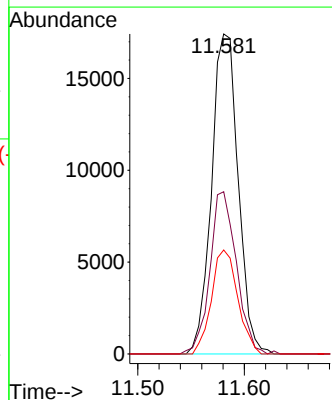
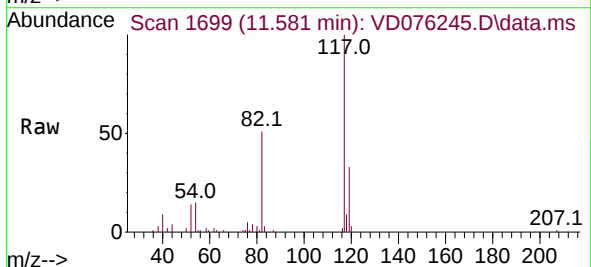
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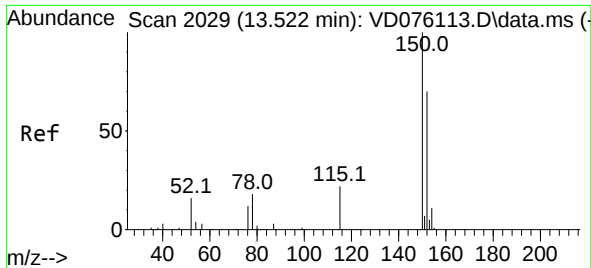
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 13059 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 96.2  | 0.0   | 164.0 |
| 176      | 89.5  | 0.0   | 156.8 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1699  
Delta R.T. -0.000 min  
Lab File: VD076245.D  
Acq: 25 May 2023 21:08

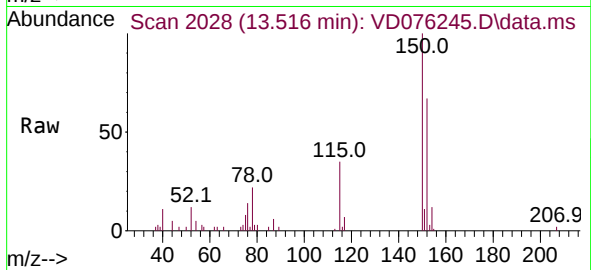
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 30202 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 50.7  | 44.0  | 66.0  |
| 119      | 32.5  | 25.1  | 37.7  |





#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.516 min Scan# 20  
 Delta R.T. -0.006 min  
 Lab File: VD076245.D  
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Instrument :  
 MSVOA\_D  
 ClientSampleId :  
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|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 11550 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 50.7  | 30.1  | 90.3  |
| 150      | 161.8 | 0.0   | 364.8 |

