

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD121523\  
 Data File : VD077904.D  
 Acq On : 15 Dec 2023 15:29  
 Operator : RP/MD  
 Sample : 05805-01  
 Misc : 5.02G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 HR-01-12122023

Quant Time: Dec 16 04:02:39 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 14 14:48:10 2023  
 Response via : Initial Calibration

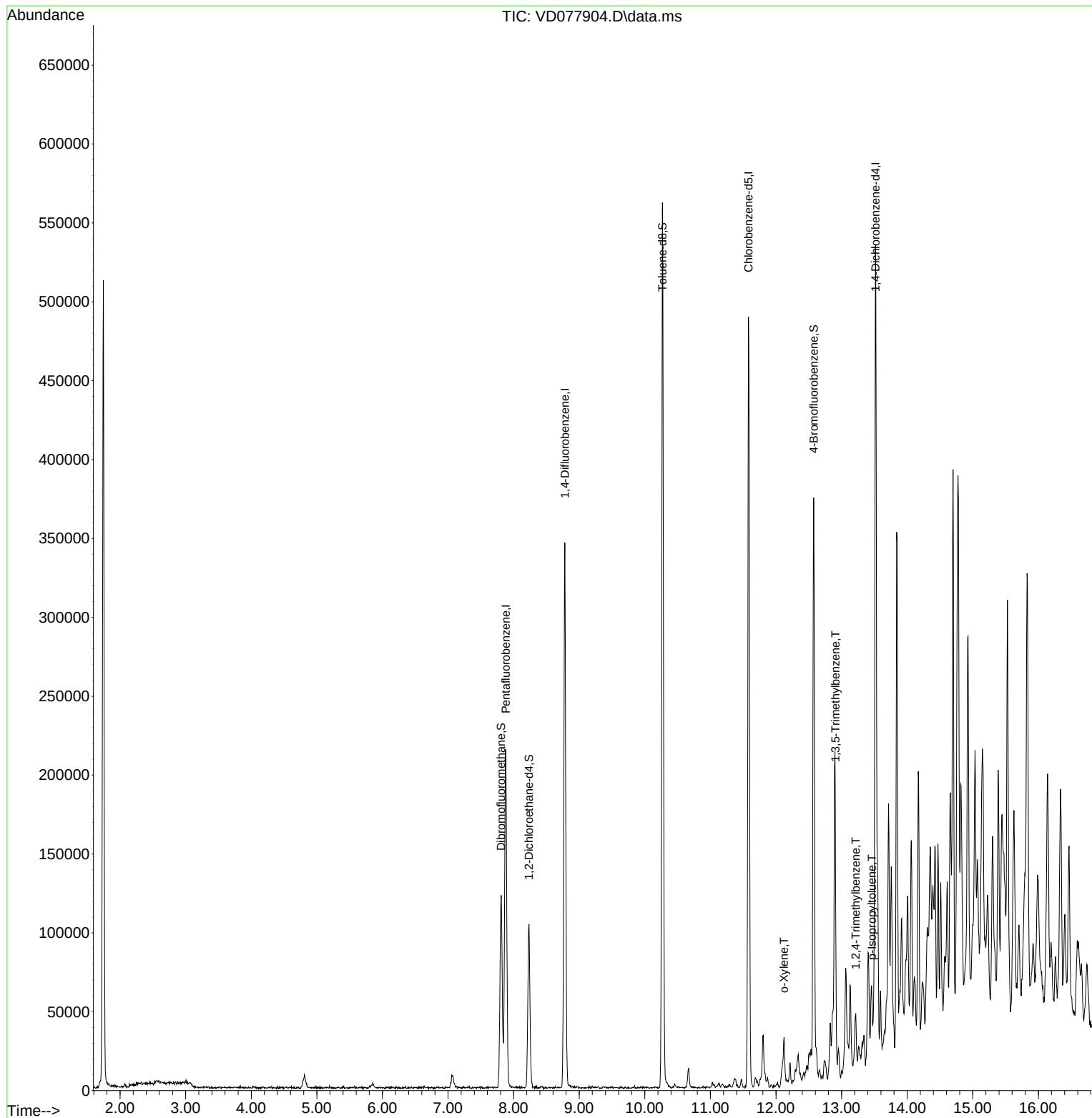
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Pentafluorobenzene       | 7.881  | 168   | 164494   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.781  | 114   | 300503   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.581 | 117   | 280985   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.516 | 152   | 130839   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.234  | 65    | 78369    | 40.431   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =      | 80.860%  |
| 35) Dibromofluoromethane    | 7.810  | 113   | 87370    | 41.508   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =      | 83.020%  |
| 50) Toluene-d8              | 10.269 | 98    | 384378   | 45.594   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =      | 91.180%  |
| 62) 4-Bromofluorobenzene    | 12.575 | 95    | 112959   | 44.816   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =      | 89.640%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 69) o-Xylene                | 12.122 | 106   | 6570     | 1.593    | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene  | 12.904 | 105   | 28501    | 3.446    | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene  | 13.216 | 105   | 18014    | 2.178    | ug/l   | 92       |
| 86) p-Isopropyltoluene      | 13.463 | 119   | 9716     | 1.051    | ug/l   | 97       |
| -----                       |        |       |          |          |        |          |

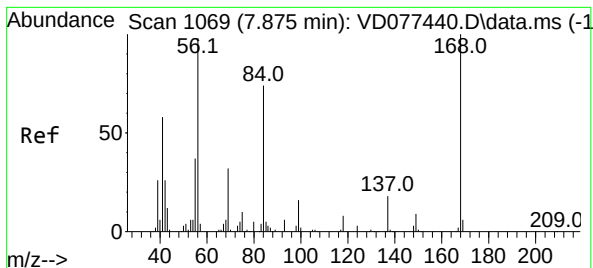
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 14 14:48:10 2023  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.881 min Scan# 1107

Delta R.T. 0.006 min

Lab File: VD077904.D

Acq: 15 Dec 2023 15:29

Instrument :

MSVOA\_D

ClientSampleId :

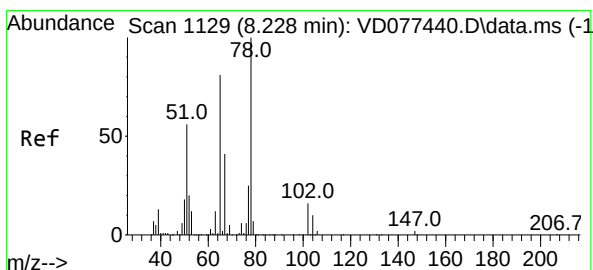
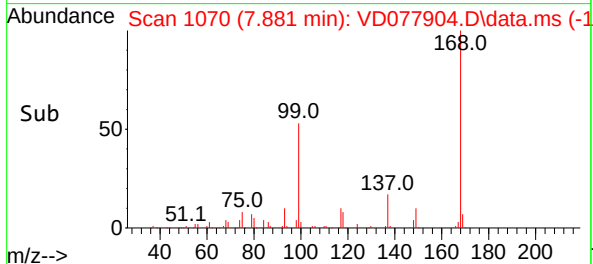
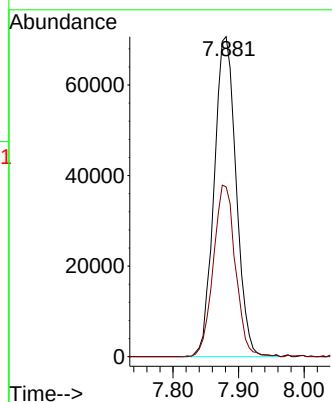
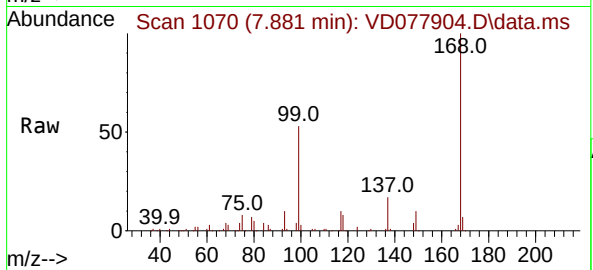
HR-01-12122023

Tgt Ion:168 Resp: 164494

Ion Ratio Lower Upper

168 100

99 53.1 36.7 55.1



#33

1,2-Dichloroethane-d4

Concen: 40.431 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VD077904.D

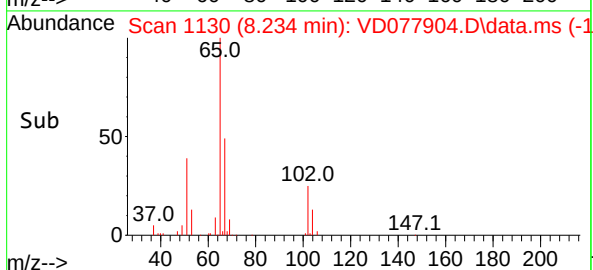
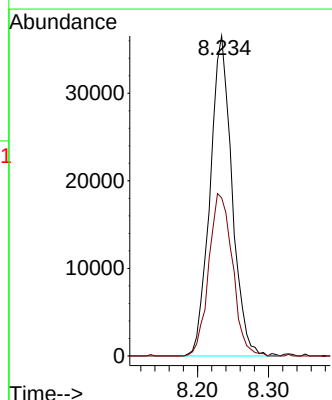
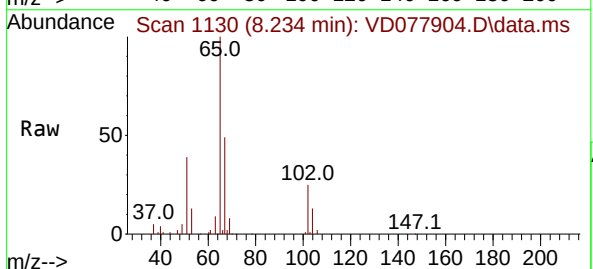
Acq: 15 Dec 2023 15:29

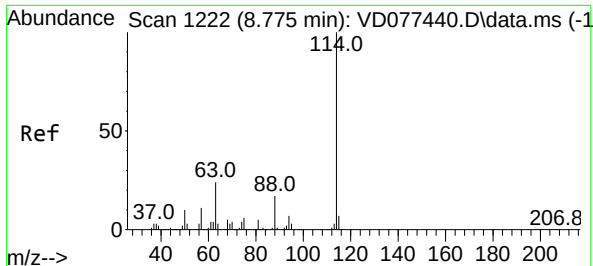
Tgt Ion: 65 Resp: 78369

Ion Ratio Lower Upper

65 100

67 54.8 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 11

Delta R.T. 0.006 min

Lab File: VD077904.D

Acq: 15 Dec 2023 15:29

Instrument :

MSVOA\_D

ClientSampleId :

HR-01-12122023

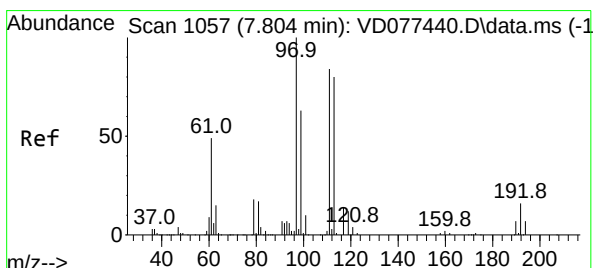
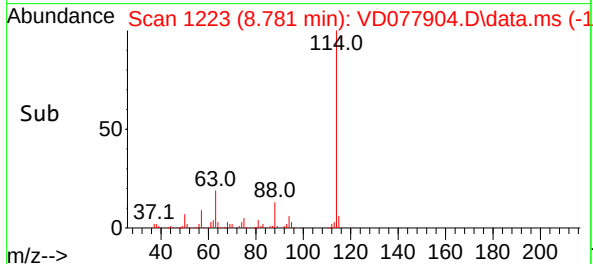
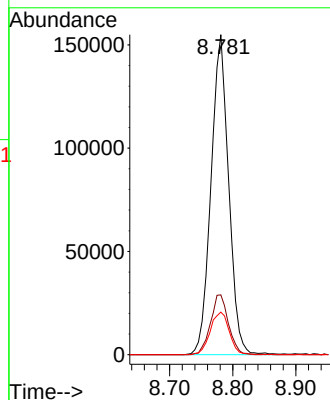
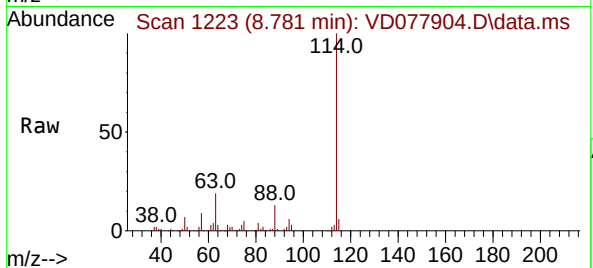
Tgt Ion:114 Resp: 300503

Ion Ratio Lower Upper

114 100

63 18.7 0.0 33.4

88 13.3 0.0 26.2



#35

Dibromofluoromethane

Concen: 41.508 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VD077904.D

Acq: 15 Dec 2023 15:29

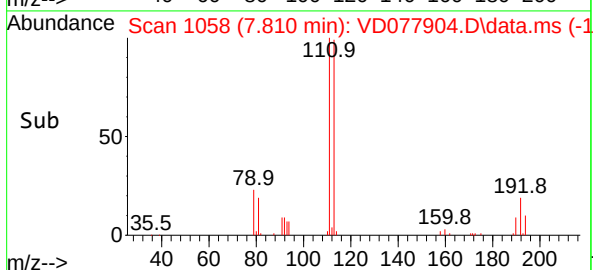
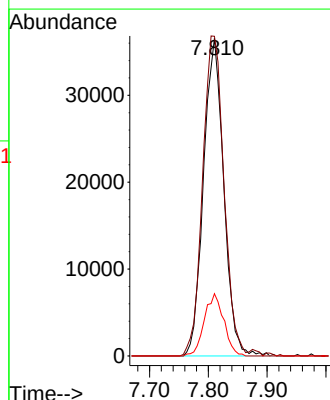
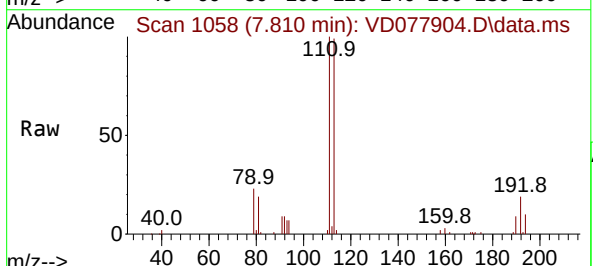
Tgt Ion:113 Resp: 87370

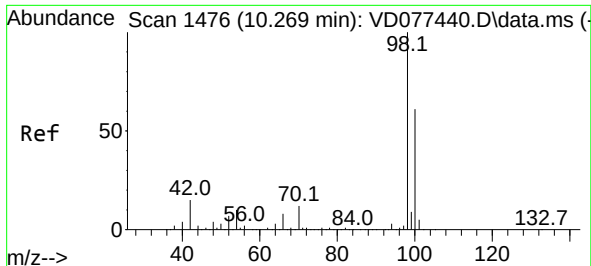
Ion Ratio Lower Upper

113 100

111 106.0 84.7 127.1

192 18.9 16.8 25.2

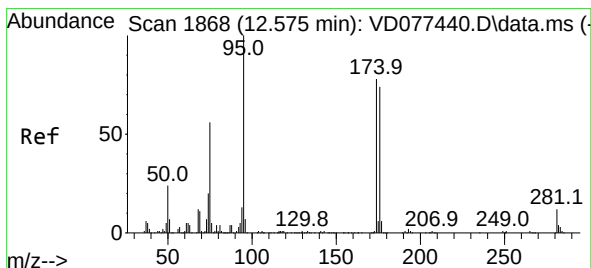
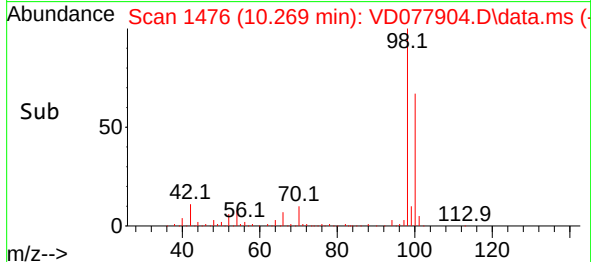
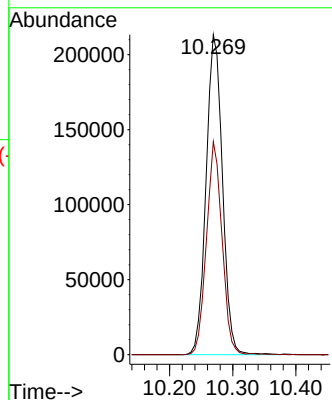
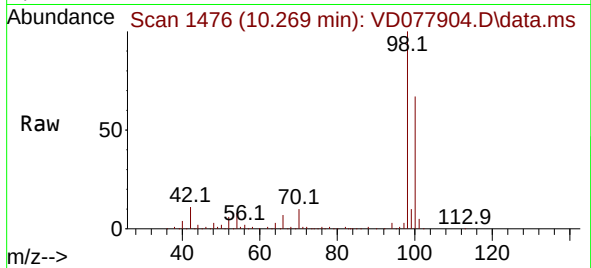




#50  
Toluene-d8  
Concen: 45.594 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD077904.D  
Acq: 15 Dec 2023 15:29

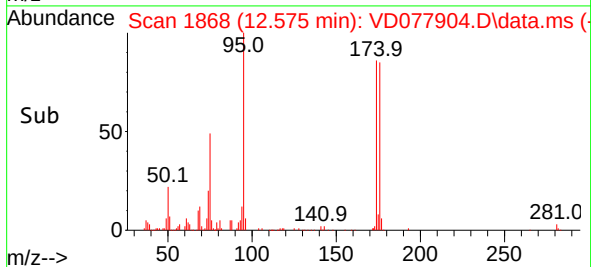
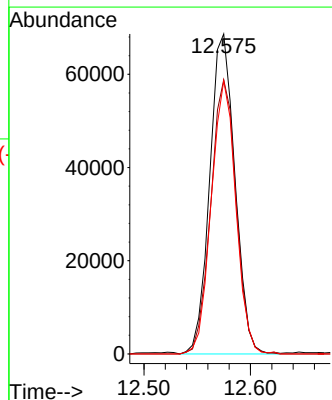
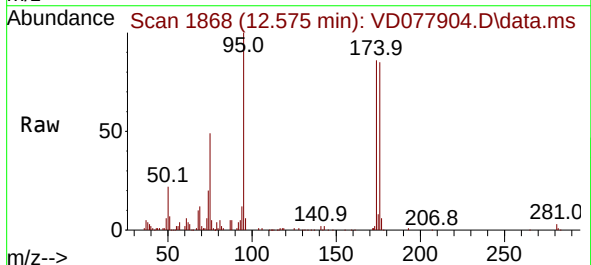
Instrument :  
MSVOA\_D  
ClientSampleId :  
HR-01-12122023

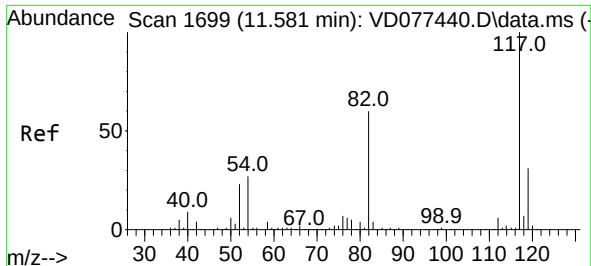
Tgt Ion: 98 Resp: 384378  
Ion Ratio Lower Upper  
98 100  
100 63.5 50.3 75.5



#62  
4-Bromofluorobenzene  
Concen: 44.816 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD077904.D  
Acq: 15 Dec 2023 15:29

Tgt Ion: 95 Resp: 112959  
Ion Ratio Lower Upper  
95 100  
174 86.1 0.0 201.8  
176 82.9 0.0 191.8

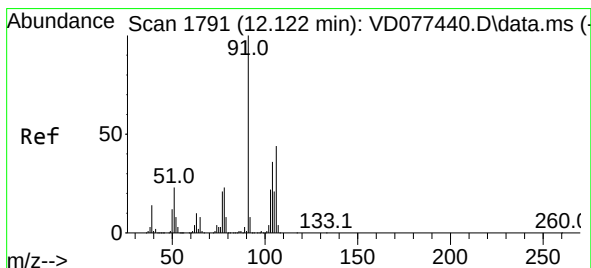
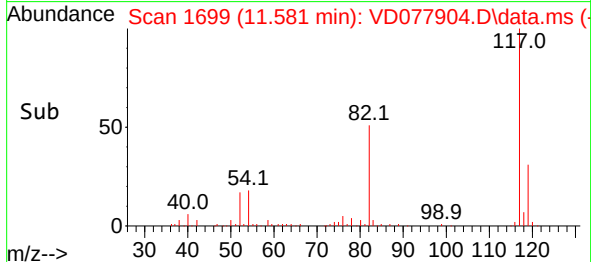
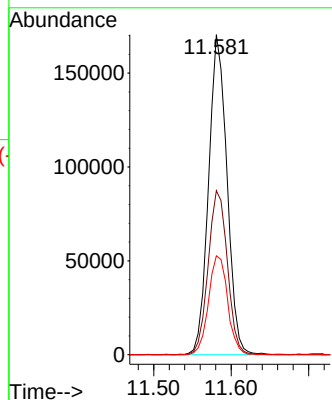
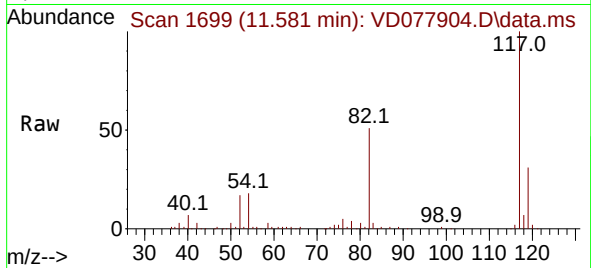




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VD077904.D  
Acq: 15 Dec 2023 15:29

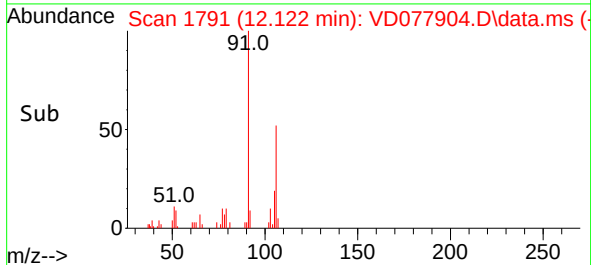
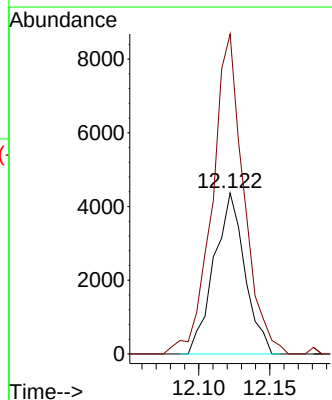
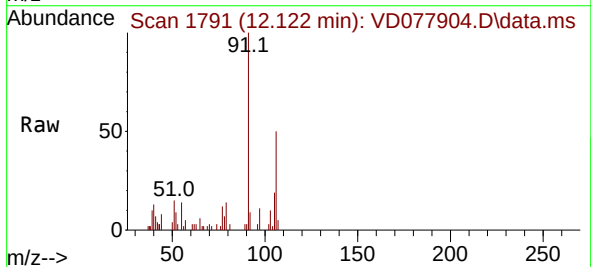
Instrument :  
MSVOA\_D  
ClientSampleId :  
HR-01-12122023

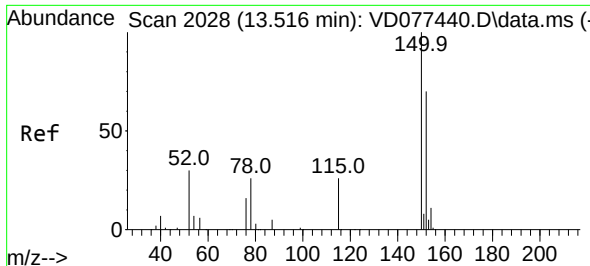
Tgt Ion:117 Resp: 280985  
Ion Ratio Lower Upper  
117 100  
82 51.1 38.3 57.5  
119 30.9 25.0 37.4



#69  
o-Xylene  
Concen: 1.593 ug/l  
RT: 12.122 min Scan# 1791  
Delta R.T. -0.000 min  
Lab File: VD077904.D  
Acq: 15 Dec 2023 15:29

Tgt Ion:106 Resp: 6570  
Ion Ratio Lower Upper  
106 100  
91 203.7 97.9 293.6

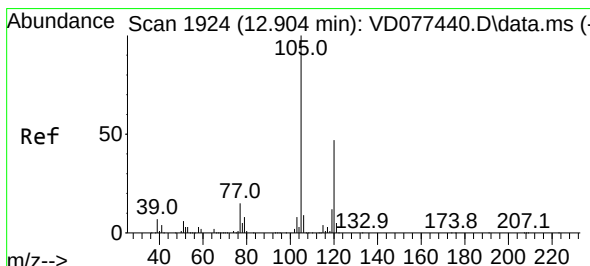
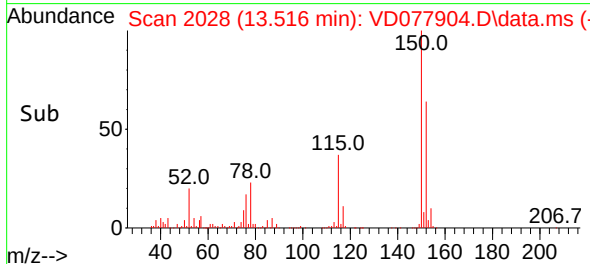
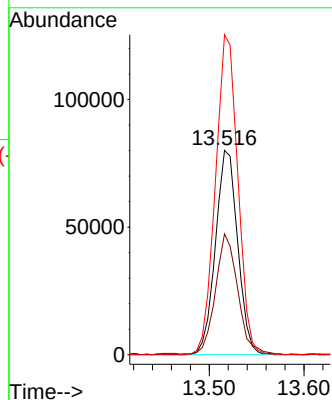
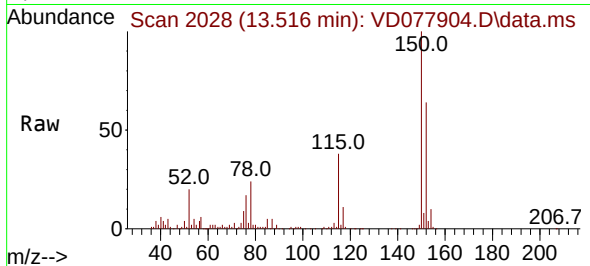




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.516 min Scan# 2028  
 Delta R.T. 0.000 min  
 Lab File: VD077904.D  
 Acq: 15 Dec 2023 15:29

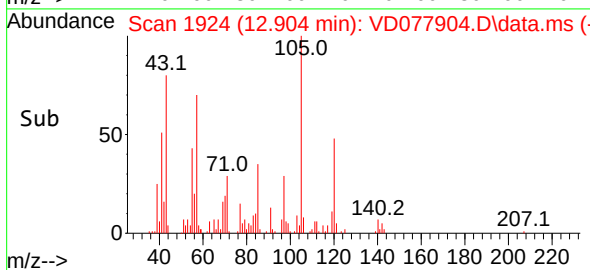
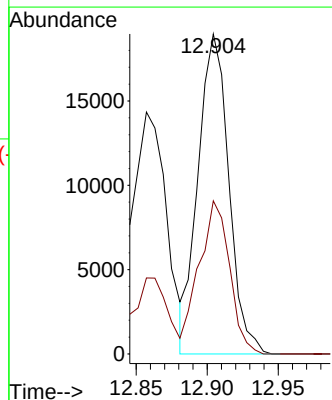
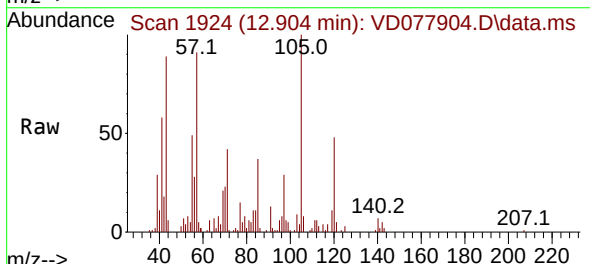
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 HR-01-12122023

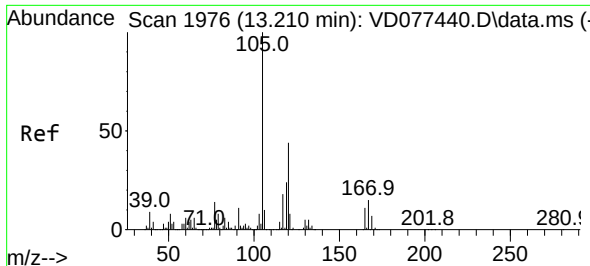
Tgt Ion:152 Resp: 130839  
 Ion Ratio Lower Upper  
 152 100  
 115 59.6 27.1 81.3  
 150 157.5 0.0 353.6



#80  
 1,3,5-Trimethylbenzene  
 Concen: 3.446 ug/l  
 RT: 12.904 min Scan# 1924  
 Delta R.T. 0.000 min  
 Lab File: VD077904.D  
 Acq: 15 Dec 2023 15:29

Tgt Ion:105 Resp: 28501  
 Ion Ratio Lower Upper  
 105 100  
 120 47.7 26.4 79.2

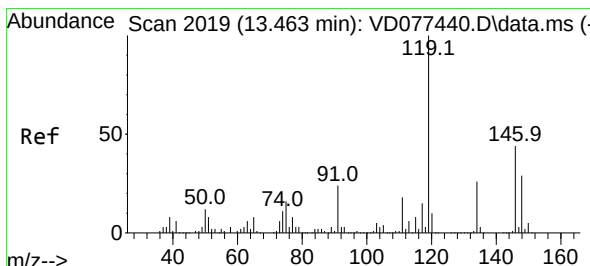
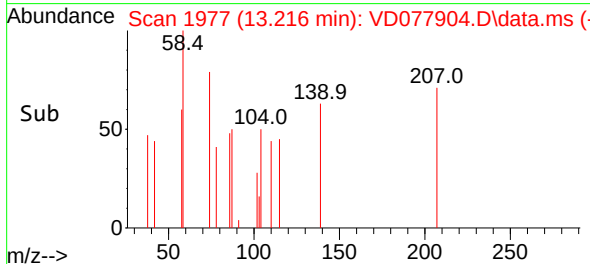
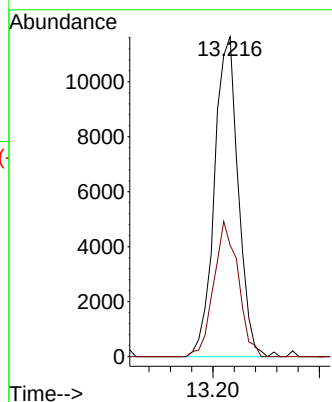
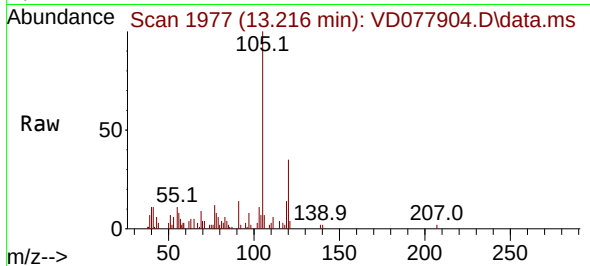




#84  
1,2,4-Trimethylbenzene  
Concen: 2.178 ug/l  
RT: 13.216 min Scan# 1976  
Delta R.T. 0.006 min  
Lab File: VD077904.D  
Acq: 15 Dec 2023 15:29

Instrument :  
MSVOA\_D  
ClientSampleId :  
HR-01-12122023

Tgt Ion:105 Resp: 18014  
Ion Ratio Lower Upper  
105 100  
120 43.4 24.3 72.9



#86  
p-Isopropyltoluene  
Concen: 1.051 ug/l  
RT: 13.463 min Scan# 2019  
Delta R.T. 0.000 min  
Lab File: VD077904.D  
Acq: 15 Dec 2023 15:29

Tgt Ion:119 Resp: 9716  
Ion Ratio Lower Upper  
119 100  
134 28.4 14.2 42.6  
91 18.2 10.5 31.5

