

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD081423\  
 Data File : VD076999.D  
 Acq On : 14 Aug 2023 14:17  
 Operator : JC/SY  
 Sample : 03971-08  
 Misc : 5.01G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 B-PP03A

Quant Time: Aug 14 14:36:47 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D080823S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 09 07:25:36 2023  
 Response via : Initial Calibration

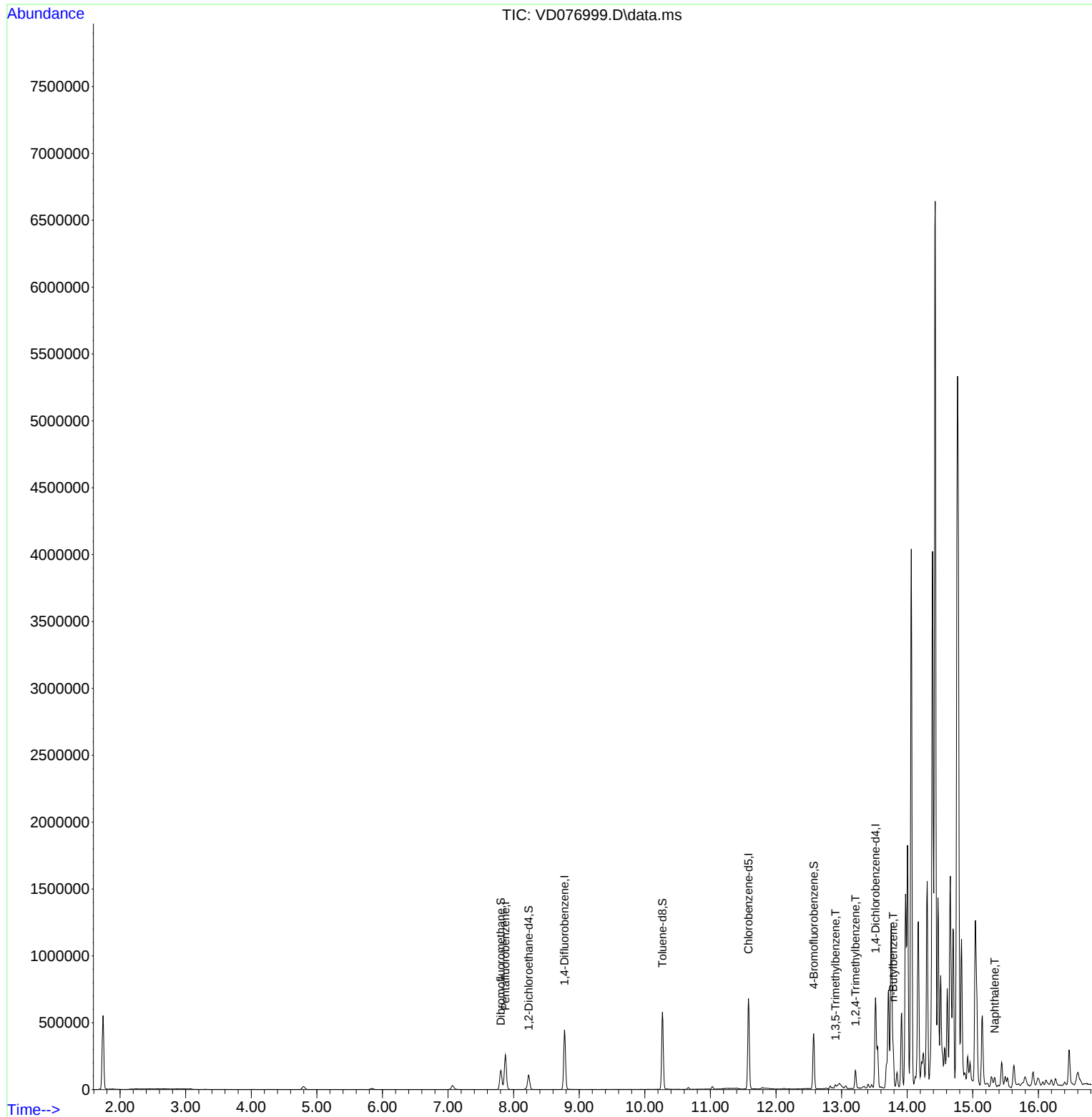
| Compound                    | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|-----------|-------|----------|----------|------------|----------|
| -----                       |           |       |          |          |            |          |
| Internal Standards          |           |       |          |          |            |          |
| 1) Pentafluorobenzene       | 7.875     | 168   | 200598   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.775     | 114   | 408007   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5        | 11.581    | 117   | 405657   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.516    | 152   | 183767   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds |           |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4   | 8.228     | 65    | 80739    | 51.022   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 50 - 163 | Recovery | = 102.040% |          |
| 35) Dibromofluoromethane    | 7.805     | 113   | 106622   | 48.608   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 54 - 147 | Recovery | = 97.220%  |          |
| 50) Toluene-d8              | 10.269    | 98    | 400892   | 56.902   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 58 - 134 | Recovery | = 113.800% |          |
| 62) 4-Bromofluorobenzene    | 12.575    | 95    | 128116   | 52.018   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 30 - 143 | Recovery | = 104.040% |          |
| Target Compounds            |           |       |          |          |            |          |
|                             |           |       |          |          | Qvalue     |          |
| 80) 1,3,5-Trimethylbenzene  | 12.904    | 105   | 11077    | 1.180    | ug/l       | 84       |
| 84) 1,2,4-Trimethylbenzene  | 13.210    | 105   | 74536    | 7.793    | ug/l       | 95       |
| 89) n-Butylbenzene          | 13.787    | 91    | 146843   | 14.354   | ug/l #     | 75       |
| 95) Naphthalene             | 15.334    | 128   | 49438    | 7.573    | ug/l #     | 95       |
| -----                       |           |       |          |          |            |          |

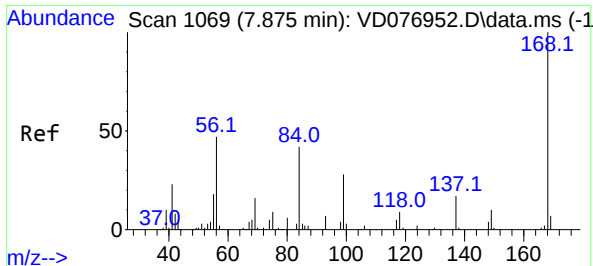
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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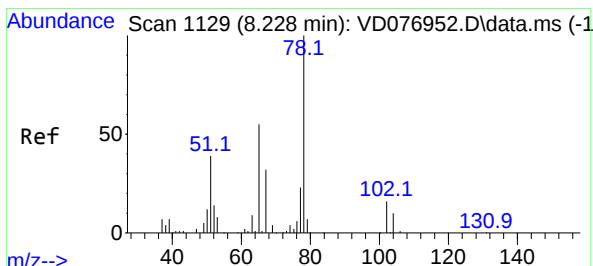
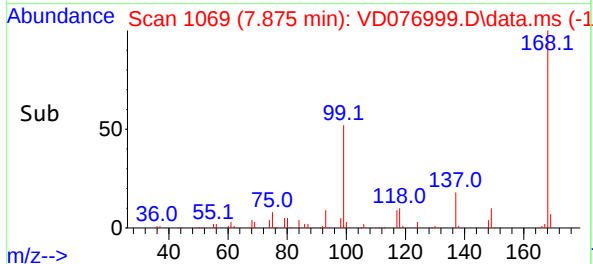
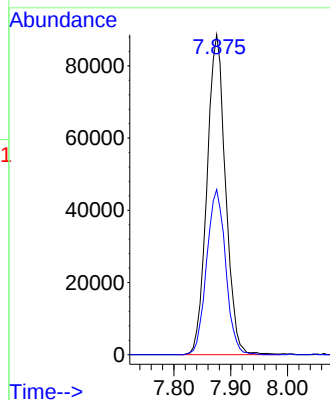
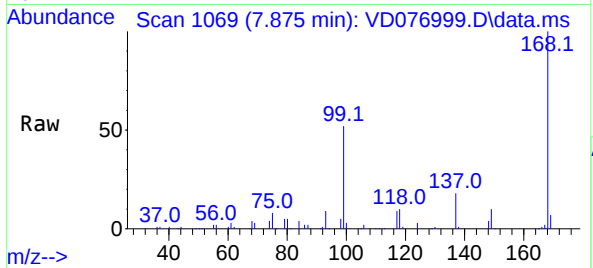




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD076999.D  
Acq: 14 Aug 2023 14:17

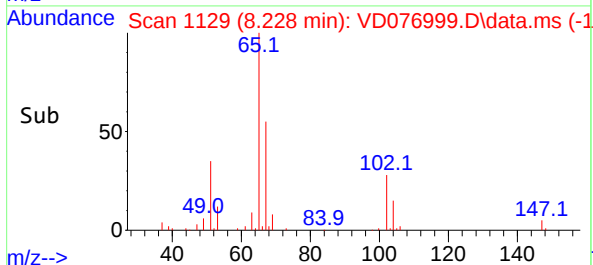
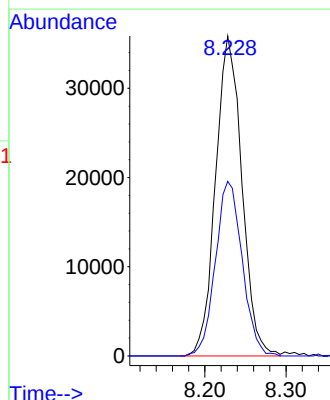
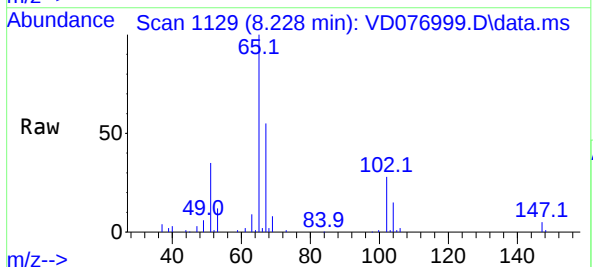
Instrument :  
MSVOA\_D  
ClientSampleId :  
B-PP03A

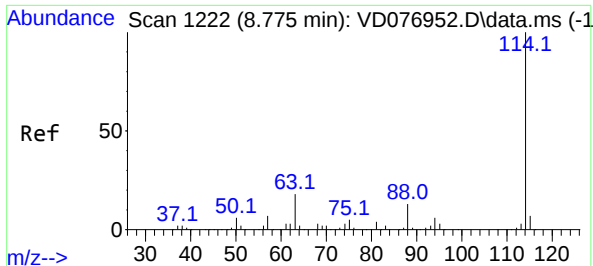
Tgt Ion:168 Resp: 200598  
Ion Ratio Lower Upper  
168 100  
99 51.6 36.7 55.1



#33  
1,2-Dichloroethane-d4  
Concen: 51.022 ug/l  
RT: 8.228 min Scan# 1129  
Delta R.T. 0.000 min  
Lab File: VD076999.D  
Acq: 14 Aug 2023 14:17

Tgt Ion: 65 Resp: 80739  
Ion Ratio Lower Upper  
65 100  
67 55.6 0.0 115.0



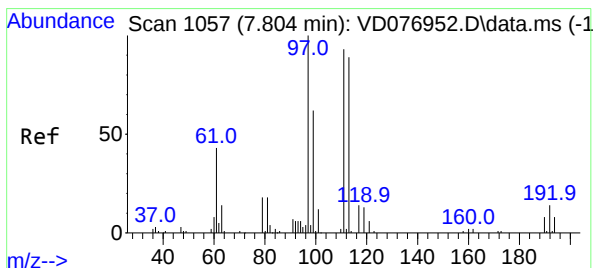
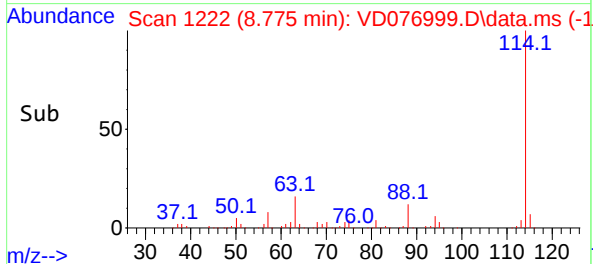
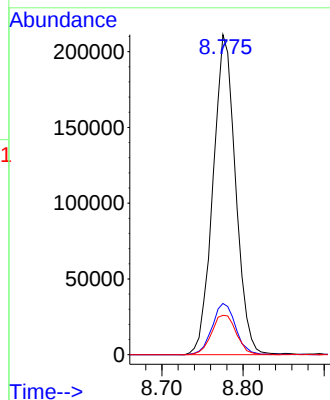
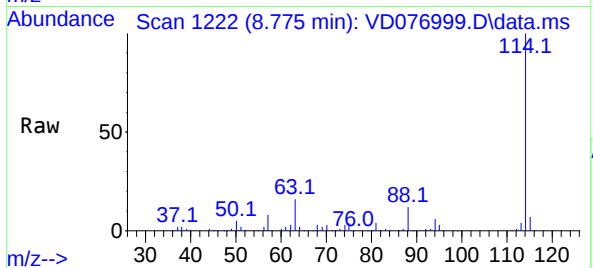


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.775 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD076999.D  
Acq: 14 Aug 2023 14:17

Instrument :  
MSVOA\_D  
ClientSampleId :  
B-PP03A

Tgt Ion:114 Resp: 408007

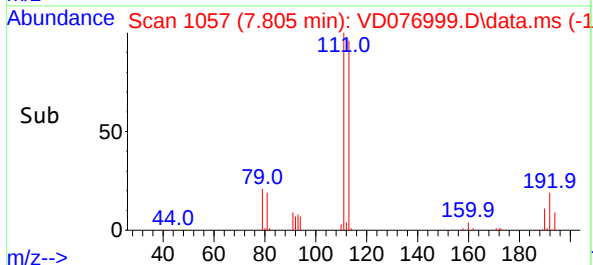
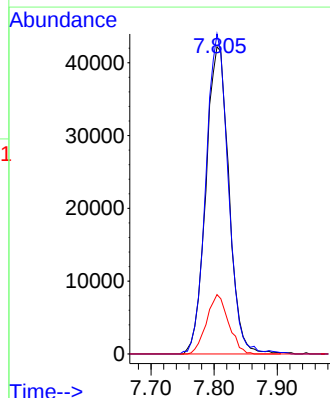
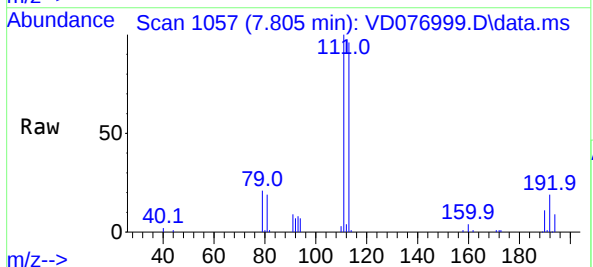
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 16.0  | 0.0   | 33.4  |
| 88  | 12.3  | 0.0   | 26.2  |

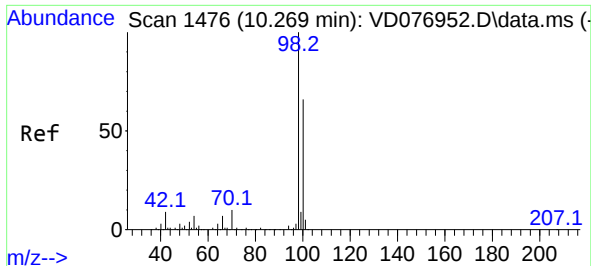


#35  
Dibromofluoromethane  
Concen: 48.608 ug/l  
RT: 7.805 min Scan# 1057  
Delta R.T. 0.001 min  
Lab File: VD076999.D  
Acq: 14 Aug 2023 14:17

Tgt Ion:113 Resp: 106622

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 101.1 | 84.7  | 127.1 |
| 192 | 18.4  | 16.8  | 25.2  |

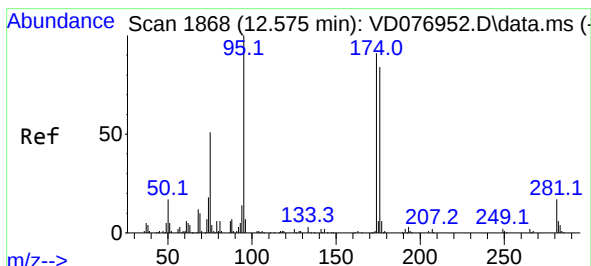
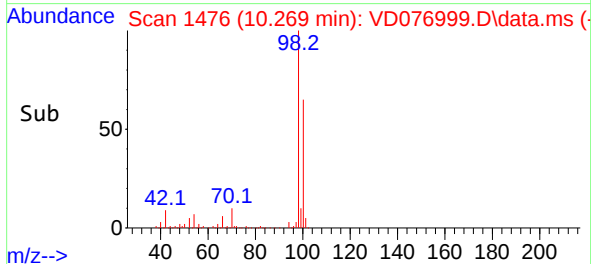
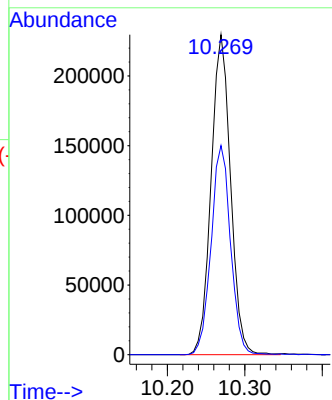
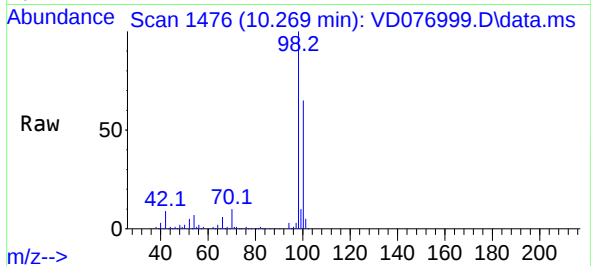




#50  
Toluene-d8  
Concen: 56.902 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD076999.D  
Acq: 14 Aug 2023 14:17

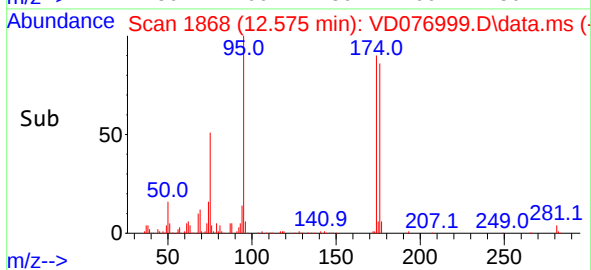
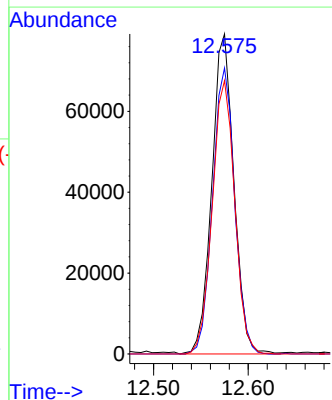
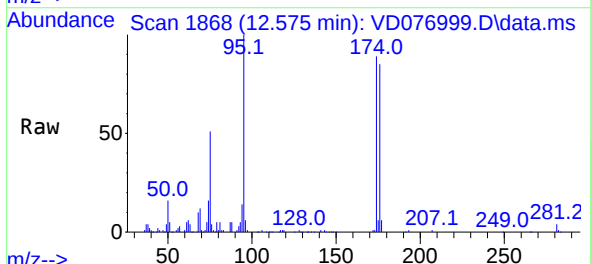
Instrument :  
MSVOA\_D  
ClientSampleId :  
B-PP03A

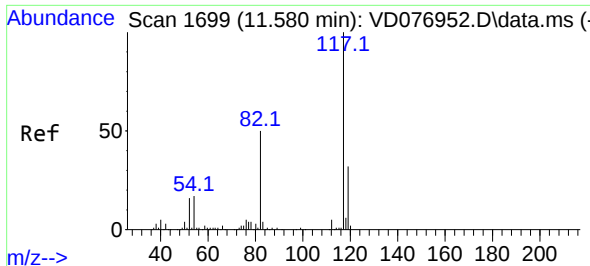
Tgt Ion: 98 Resp: 400892  
Ion Ratio Lower Upper  
98 100  
100 65.3 50.3 75.5



#62  
4-Bromofluorobenzene  
Concen: 52.018 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD076999.D  
Acq: 14 Aug 2023 14:17

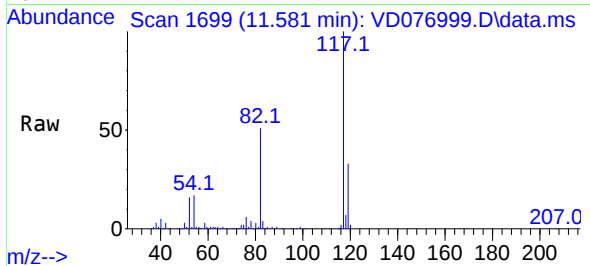
Tgt Ion: 95 Resp: 128116  
Ion Ratio Lower Upper  
95 100  
174 89.1 0.0 201.8  
176 86.8 0.0 191.8



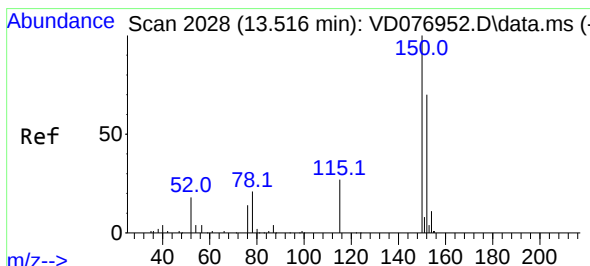
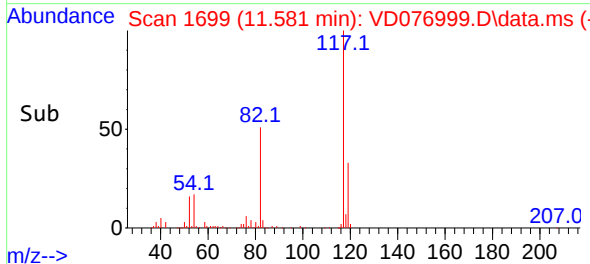
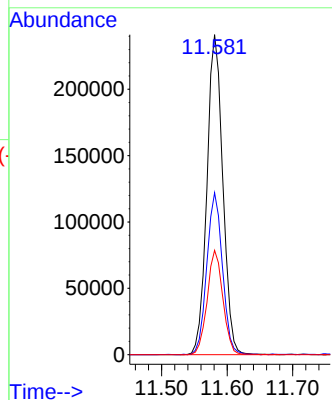


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 11  
Delta R.T. 0.001 min  
Lab File: VD076999.D  
Acq: 14 Aug 2023 14:17

Instrument :  
MSVOA\_D  
ClientSampleId :  
B-PP03A

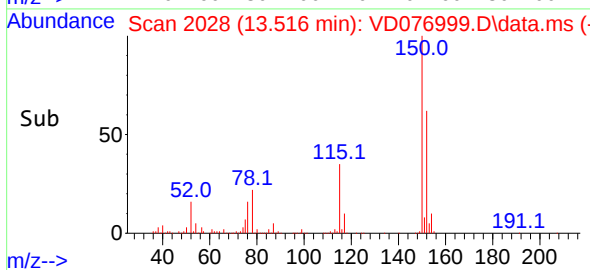
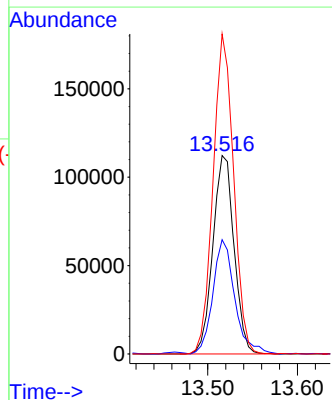
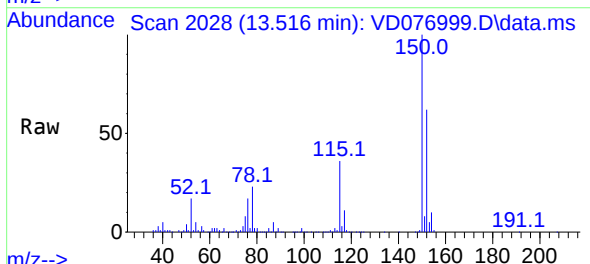


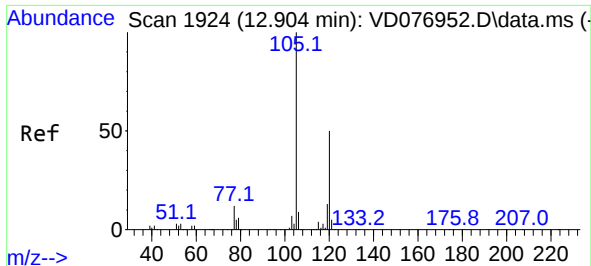
Tgt Ion:117 Resp: 405657  
Ion Ratio Lower Upper  
117 100  
82 50.6 38.3 57.5  
119 32.6 25.0 37.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.516 min Scan# 2028  
Delta R.T. 0.000 min  
Lab File: VD076999.D  
Acq: 14 Aug 2023 14:17

Tgt Ion:152 Resp: 183767  
Ion Ratio Lower Upper  
152 100  
115 59.8 27.1 81.3  
150 156.5 0.0 353.6

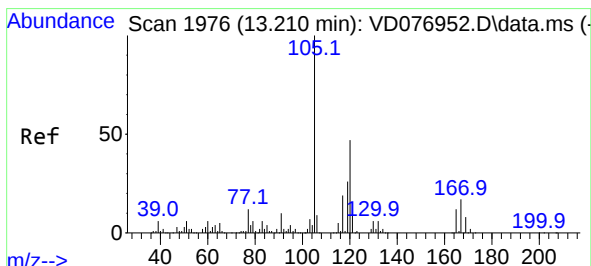
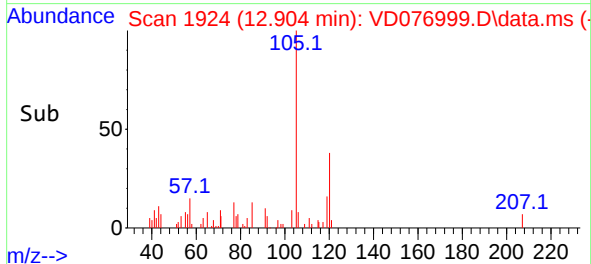
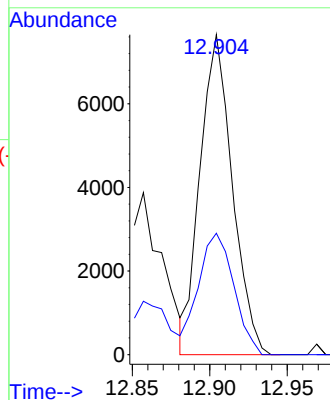
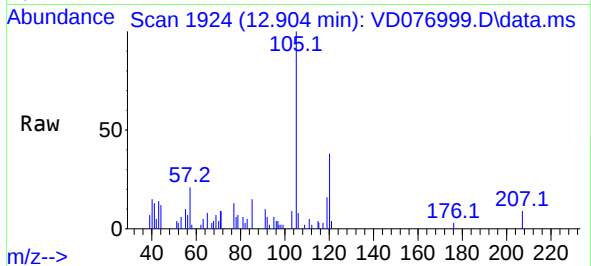




#80  
1,3,5-Trimethylbenzene  
Concen: 1.180 ug/l  
RT: 12.904 min Scan# 1924  
Delta R.T. 0.000 min  
Lab File: VD076999.D  
Acq: 14 Aug 2023 14:17

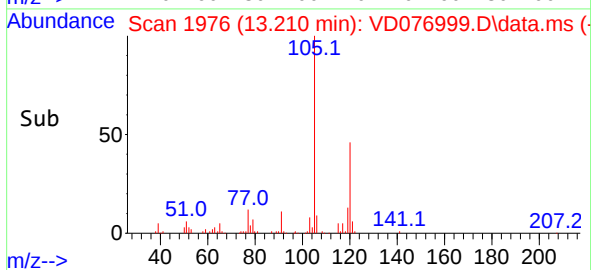
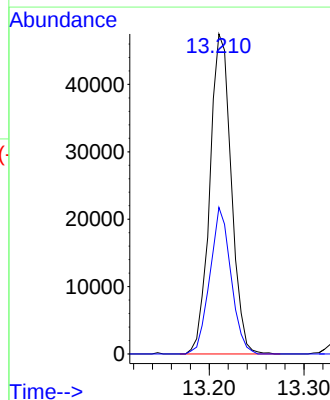
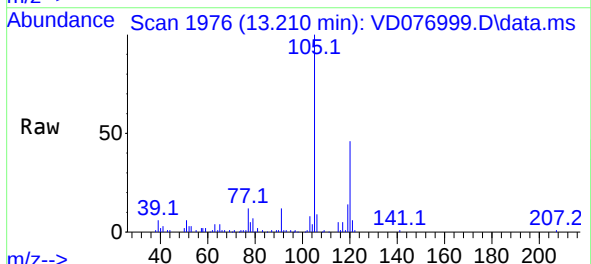
Instrument :  
MSVOA\_D  
ClientSampleId :  
B-PP03A

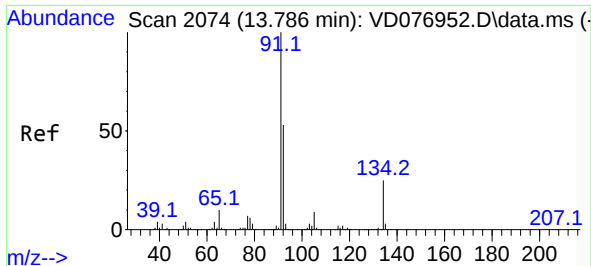
Tgt Ion:105 Resp: 11077  
Ion Ratio Lower Upper  
105 100  
120 41.7 26.4 79.2



#84  
1,2,4-Trimethylbenzene  
Concen: 7.793 ug/l  
RT: 13.210 min Scan# 1976  
Delta R.T. 0.000 min  
Lab File: VD076999.D  
Acq: 14 Aug 2023 14:17

Tgt Ion:105 Resp: 74536  
Ion Ratio Lower Upper  
105 100  
120 45.1 24.3 72.9





#89

n-Butylbenzene

Concen: 14.354 ug/l

RT: 13.787 min Scan# 2074

Delta R.T. 0.001 min

Lab File: VD076999.D

Acq: 14 Aug 2023 14:17

Instrument :

MSVOA\_D

ClientSampleId :

B-PP03A

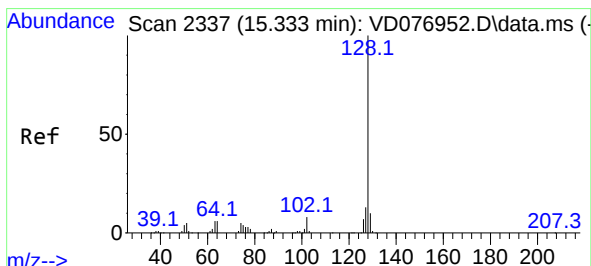
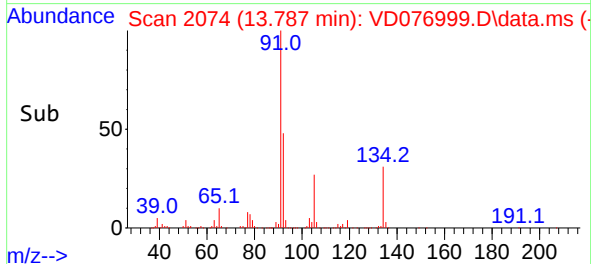
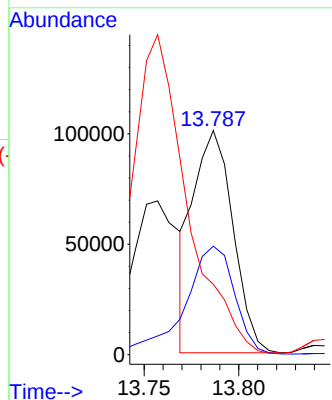
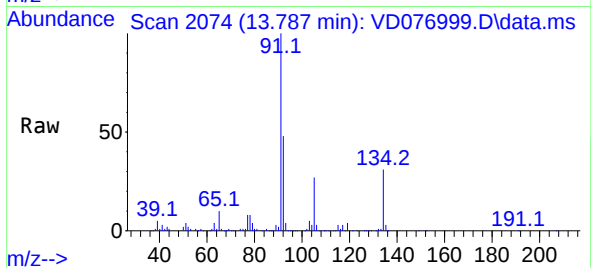
Tgt Ion: 91 Resp: 146843

Ion Ratio Lower Upper

91 100

92 60.4 26.5 79.5

134 0.0 13.8 41.3#



#95

Naphthalene

Concen: 7.573 ug/l

RT: 15.334 min Scan# 2337

Delta R.T. 0.001 min

Lab File: VD076999.D

Acq: 14 Aug 2023 14:17

Tgt Ion:128 Resp: 49438

Ion Ratio Lower Upper

128 100

127 13.6 10.5 15.7

129 14.4 8.7 13.1#

