

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY060625\  
 Data File : VY022596.D  
 Acq On : 06 Jun 2025 13:38  
 Operator : SY/MD  
 Sample : Q2208-20  
 Misc : 5.65g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 BU-703-VOC-08

Quant Time: Jun 06 23:42:32 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060225S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 03 03:22:04 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.701  | 168  | 312070   | 50.000 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 8.609  | 114  | 576310   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.414 | 117  | 471302   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152  | 176928   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.055  | 65    | 168098   | 48.161   | ug/l | -0.01    |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 96.320%  |
| 35) Dibromofluoromethane    | 7.634  | 113   | 172139   | 50.042   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 100.080% |
| 50) Toluene-d8              | 10.103 | 98    | 704407   | 50.679   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 101.360% |
| 62) 4-Bromofluorobenzene    | 12.401 | 95    | 174731   | 42.192   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 84.380%  |

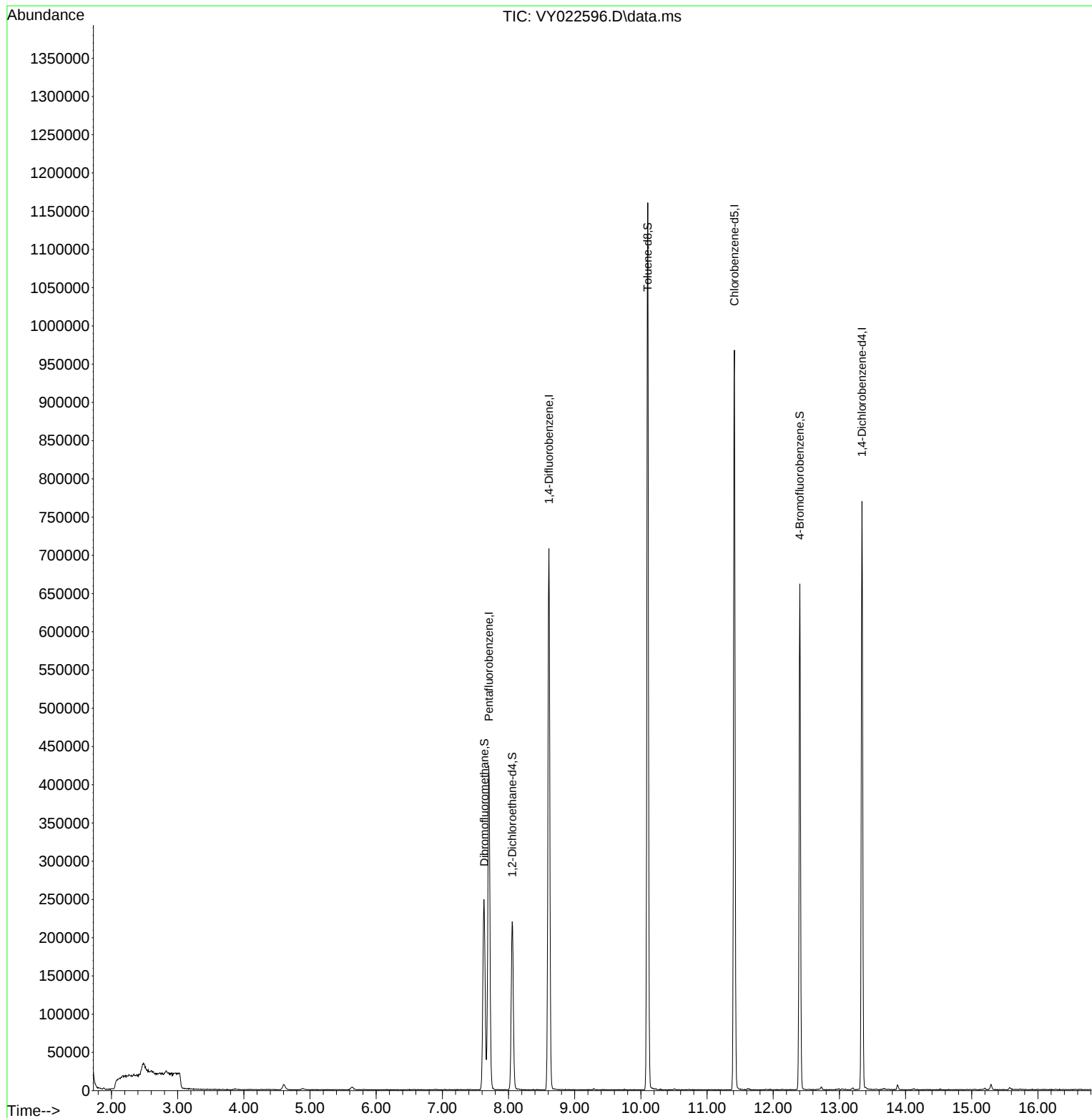
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

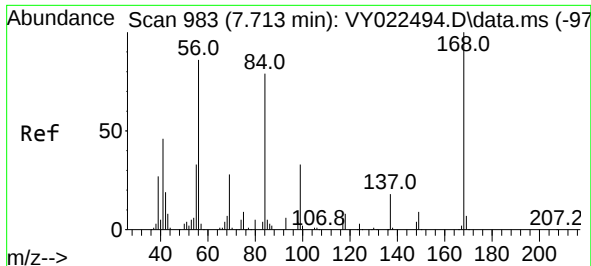
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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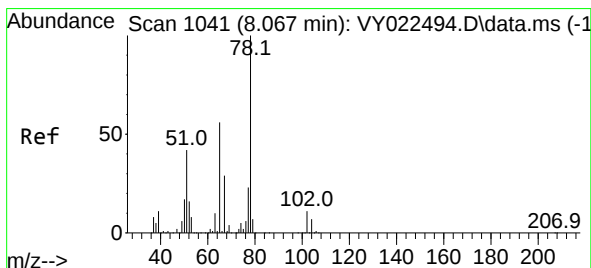
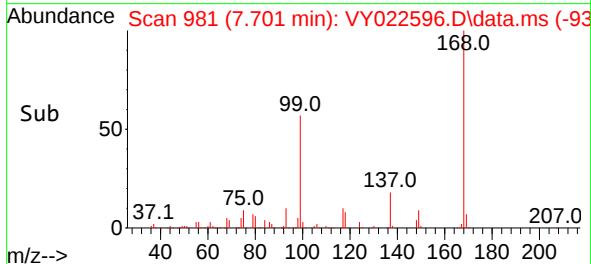
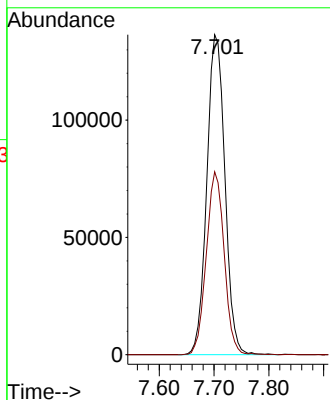
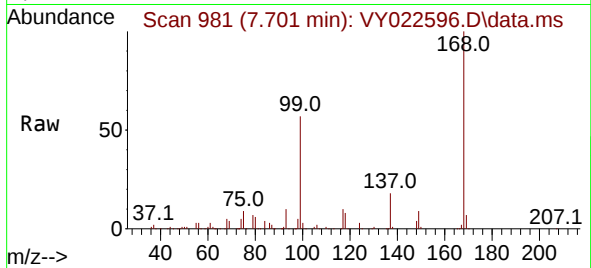




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.701 min Scan# 91  
Delta R.T. -0.012 min  
Lab File: VY022596.D  
Acq: 06 Jun 2025 13:38

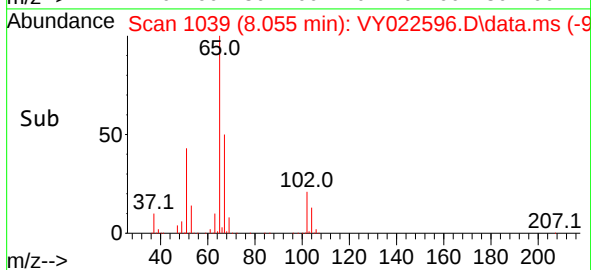
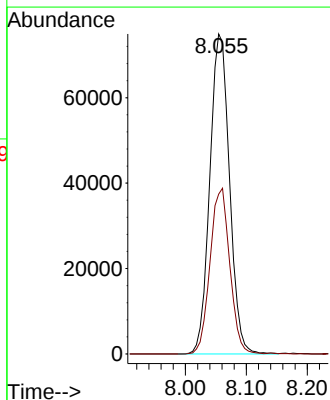
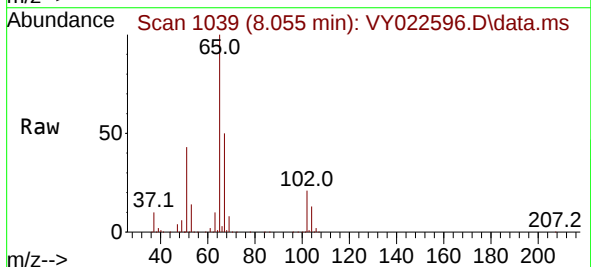
Instrument :  
MSVOA\_Y  
ClientSampleId :  
BU-703-VOC-08

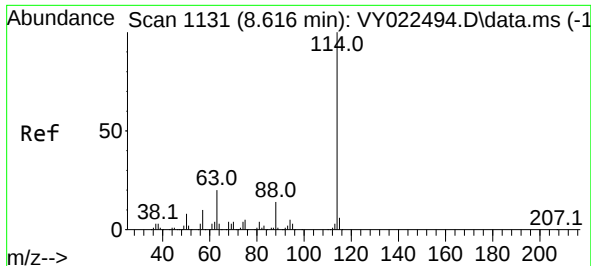
Tgt Ion:168 Resp: 312070  
Ion Ratio Lower Upper  
168 100  
99 57.2 44.3 66.5



#33  
1,2-Dichloroethane-d4  
Concen: 48.161 ug/l  
RT: 8.055 min Scan# 1039  
Delta R.T. -0.012 min  
Lab File: VY022596.D  
Acq: 06 Jun 2025 13:38

Tgt Ion: 65 Resp: 168098  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 103.4

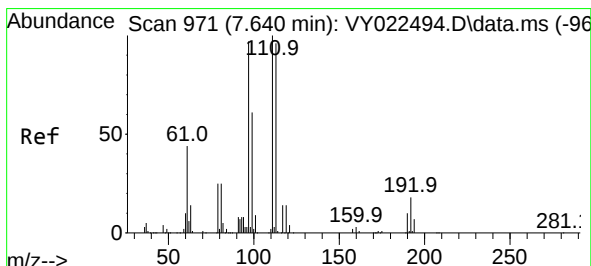
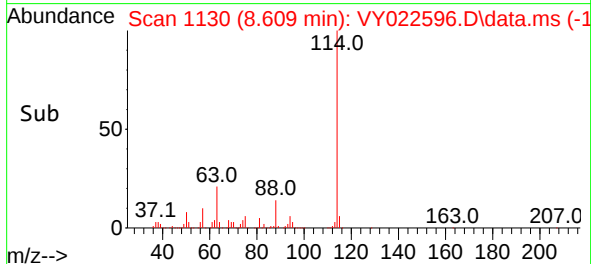
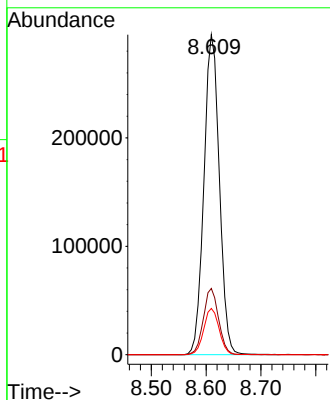
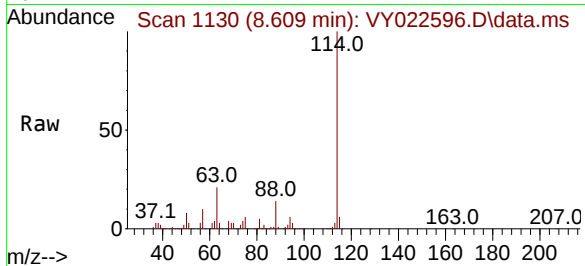




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.609 min Scan# 1131  
Delta R.T. -0.006 min  
Lab File: VY022596.D  
Acq: 06 Jun 2025 13:38

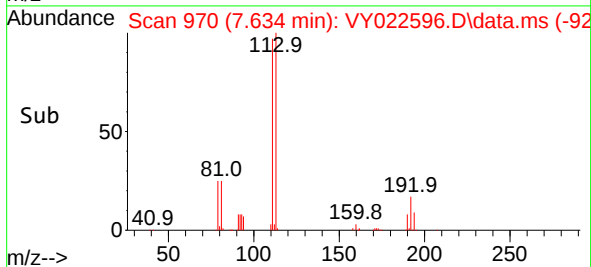
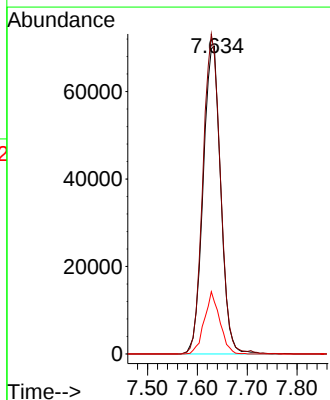
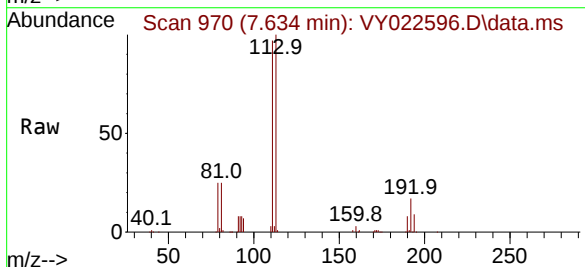
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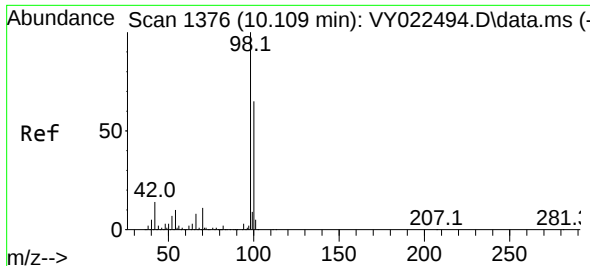
Tgt Ion:114 Resp: 576310  
Ion Ratio Lower Upper  
114 100  
63 20.7 0.0 40.8  
88 14.4 0.0 27.8



#35  
Dibromofluoromethane  
Concen: 50.042 ug/l  
RT: 7.634 min Scan# 970  
Delta R.T. -0.006 min  
Lab File: VY022596.D  
Acq: 06 Jun 2025 13:38

Tgt Ion:113 Resp: 172139  
Ion Ratio Lower Upper  
113 100  
111 103.5 81.1 121.7  
192 17.8 14.2 21.2

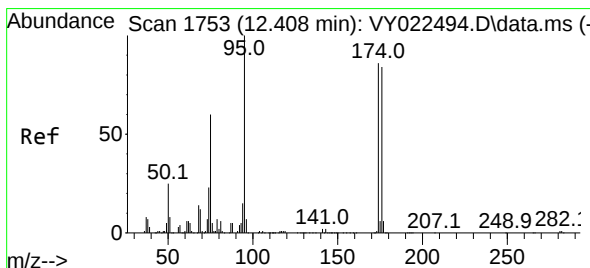
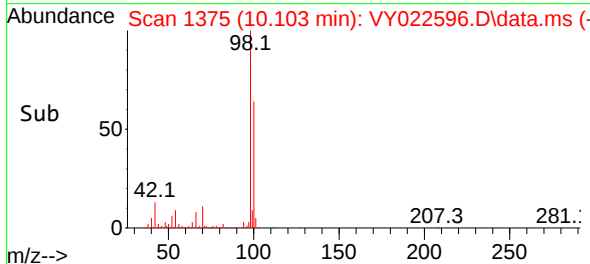
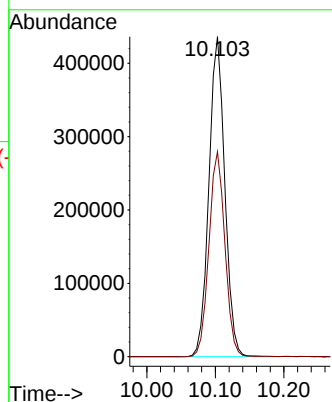
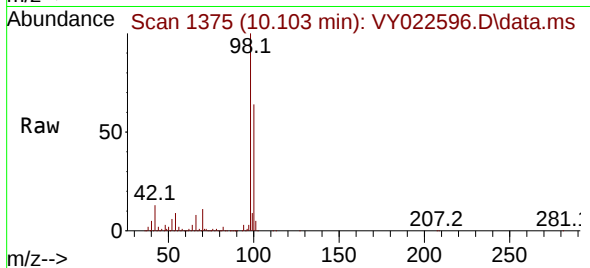




#50  
Toluene-d8  
Concen: 50.679 ug/l  
RT: 10.103 min Scan# 1375  
Delta R.T. -0.006 min  
Lab File: VY022596.D  
Acq: 06 Jun 2025 13:38

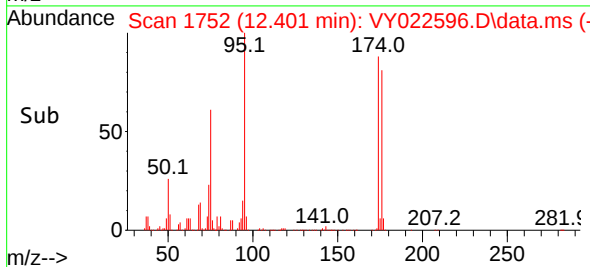
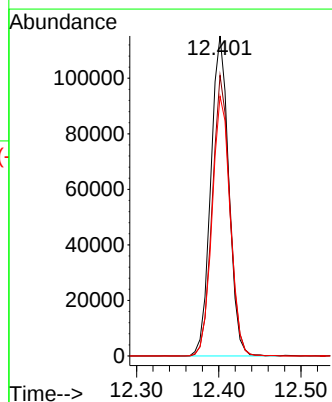
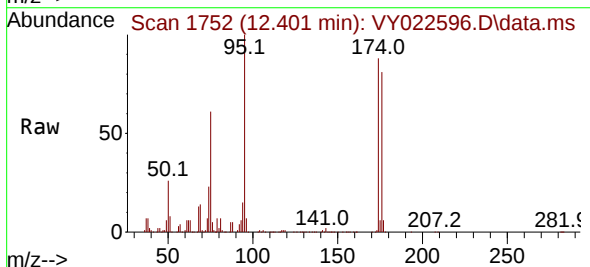
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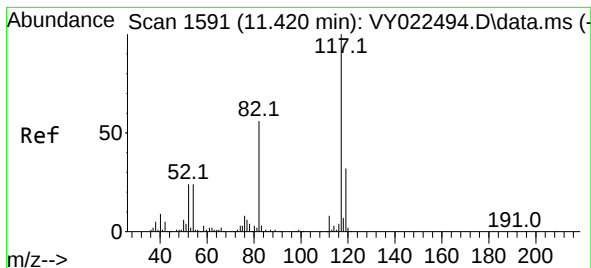
Tgt Ion: 98 Resp: 704407  
Ion Ratio Lower Upper  
98 100  
100 64.4 51.4 77.0



#62  
4-Bromofluorobenzene  
Concen: 42.192 ug/l  
RT: 12.401 min Scan# 1752  
Delta R.T. -0.006 min  
Lab File: VY022596.D  
Acq: 06 Jun 2025 13:38

Tgt Ion: 95 Resp: 174731  
Ion Ratio Lower Upper  
95 100  
174 86.0 0.0 170.0  
176 81.9 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY022596.D

Acq: 06 Jun 2025 13:38

Instrument :

MSVOA\_Y

ClientSampleId :

BU-703-VOC-08

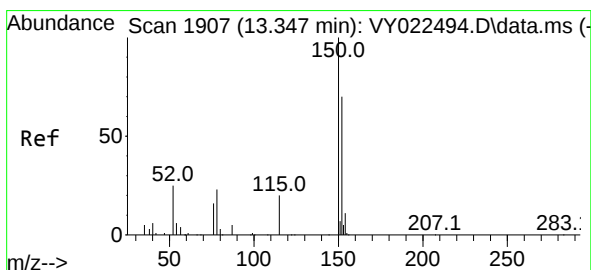
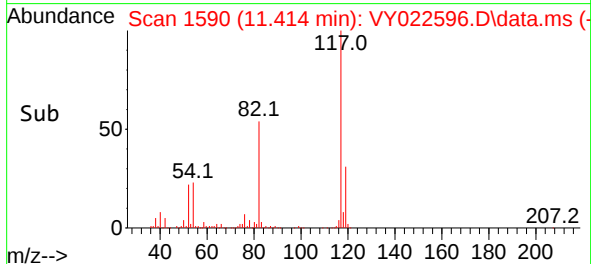
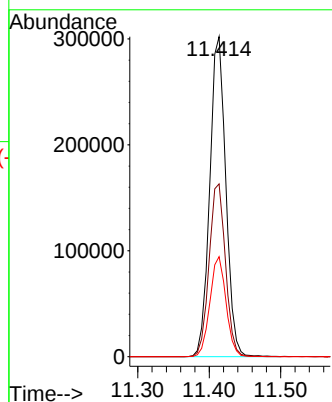
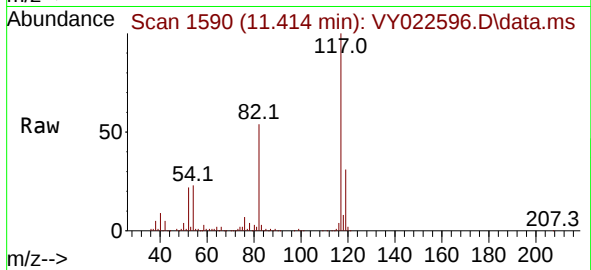
Tgt Ion:117 Resp: 471302

Ion Ratio Lower Upper

117 100

82 54.0 44.6 66.8

119 31.2 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. -0.006 min

Lab File: VY022596.D

Acq: 06 Jun 2025 13:38

Tgt Ion:152 Resp: 176928

Ion Ratio Lower Upper

152 100

115 56.6 28.9 86.7

150 155.9 0.0 349.6

