

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY050125\  
 Data File : VY022103.D  
 Acq On : 01 May 2025 13:28  
 Operator : SY/MD  
 Sample : Q1922-03  
 Misc : 5.63g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MH-R-VOC

Quant Time: May 02 01:29:54 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 23 02:30:30 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.707  | 168  | 301284   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.616  | 114  | 575618   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.414 | 117  | 508207   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152  | 185584   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.061  | 65    | 147736   | 53.087   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 106.180% |
| 35) Dibromofluoromethane    | 7.634  | 113   | 192387   | 50.590   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 101.180% |
| 50) Toluene-d8              | 10.109 | 98    | 680203   | 47.445   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 94.880%  |
| 62) 4-Bromofluorobenzene    | 12.408 | 95    | 180430   | 37.385   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 74.760%  |

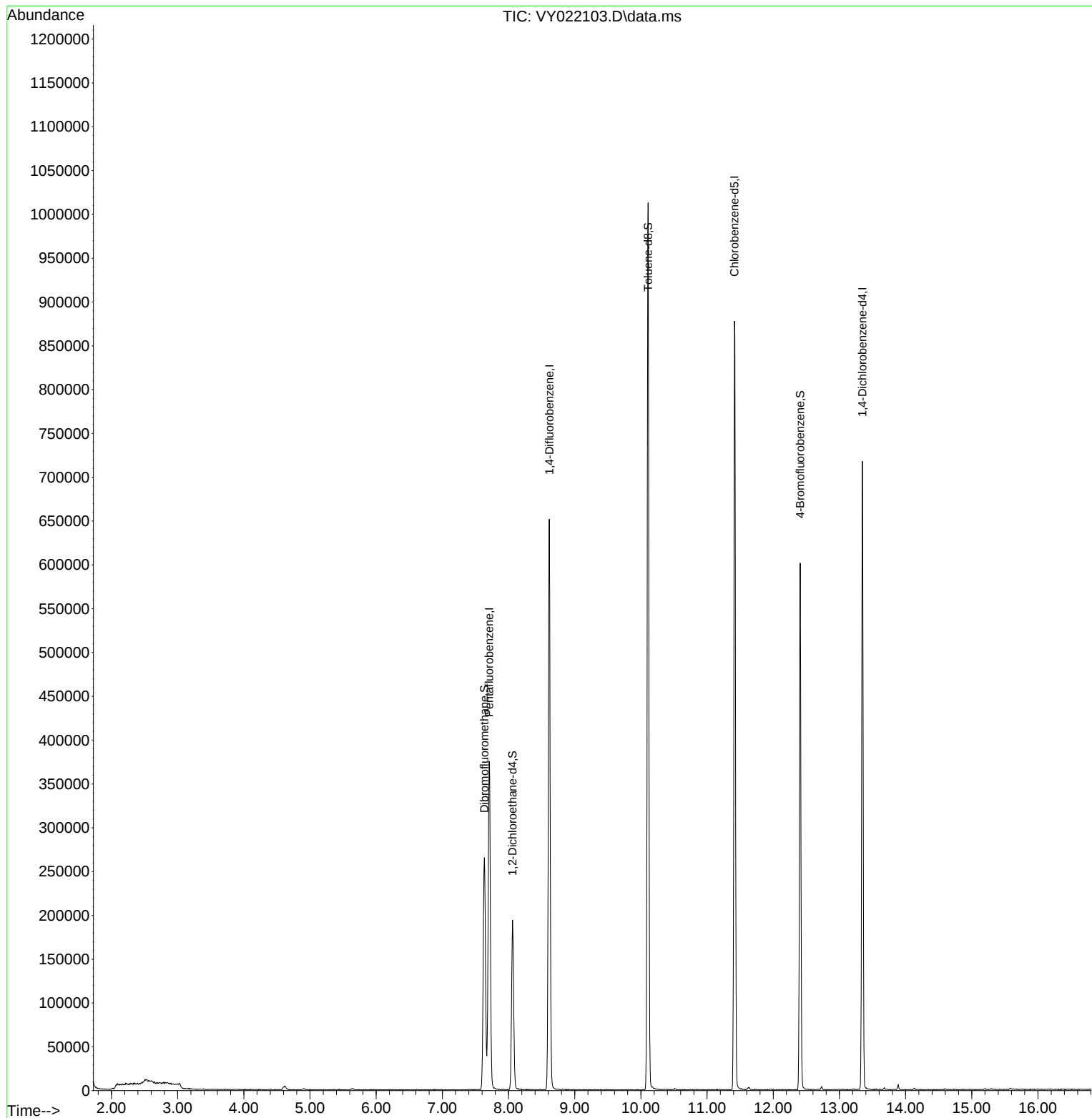
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

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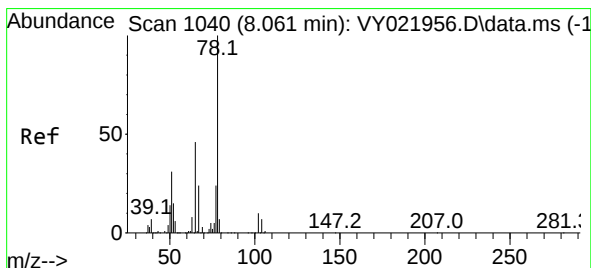
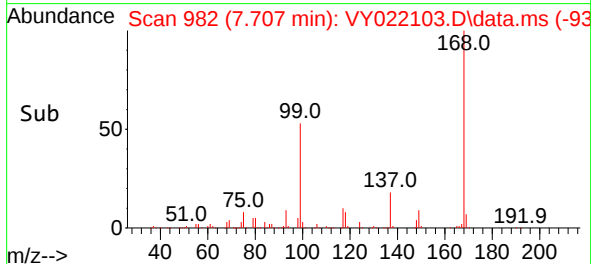
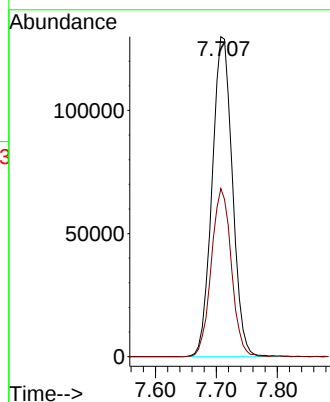
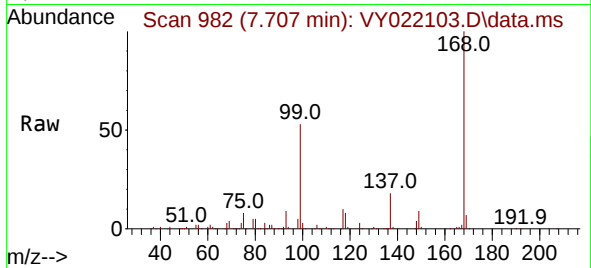




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 982  
Delta R.T. 0.000 min  
Lab File: VY022103.D  
Acq: 01 May 2025 13:28

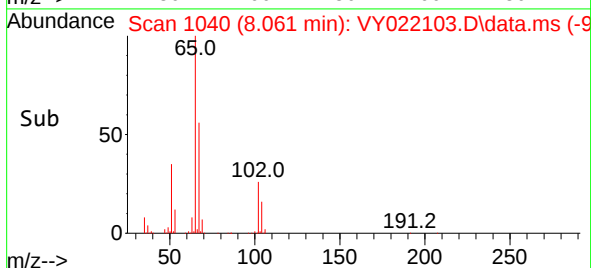
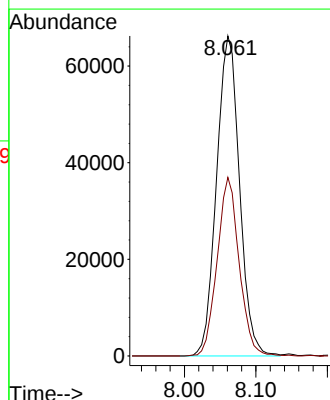
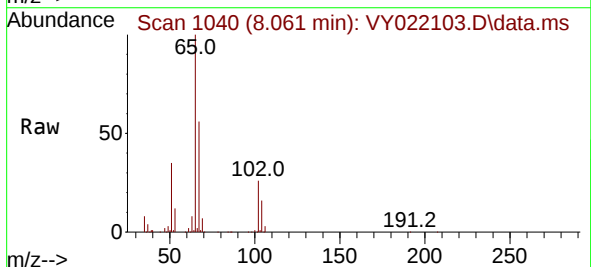
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MH-R-VOC

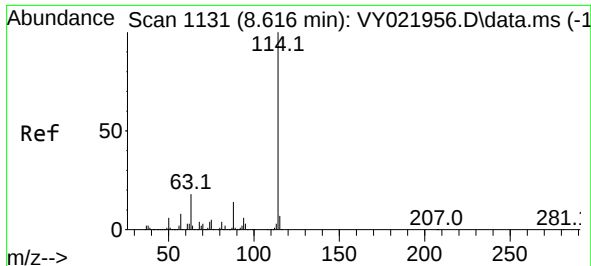
Tgt Ion:168 Resp: 301284  
Ion Ratio Lower Upper  
168 100  
99 52.5 43.1 64.7



#33  
1,2-Dichloroethane-d4  
Concen: 53.087 ug/l  
RT: 8.061 min Scan# 1040  
Delta R.T. -0.000 min  
Lab File: VY022103.D  
Acq: 01 May 2025 13:28

Tgt Ion: 65 Resp: 147736  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 105.8

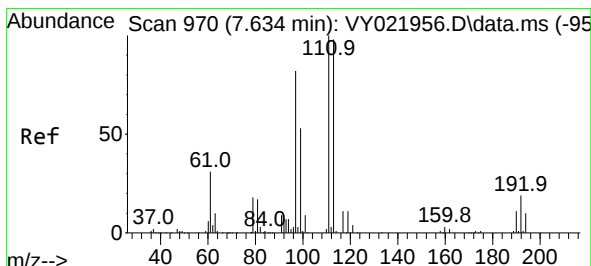
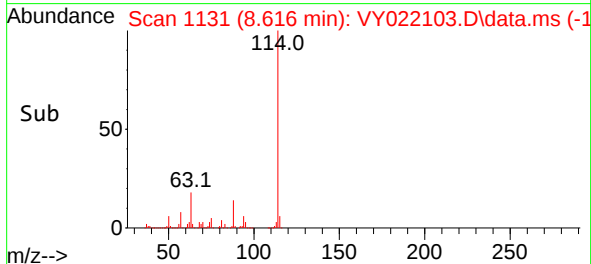
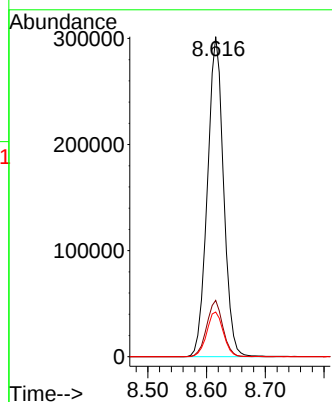
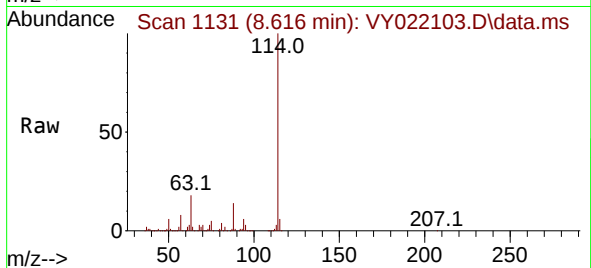




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.616 min Scan# 1131  
Delta R.T. -0.000 min  
Lab File: VY022103.D  
Acq: 01 May 2025 13:28

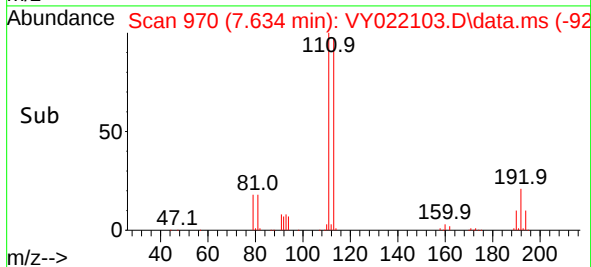
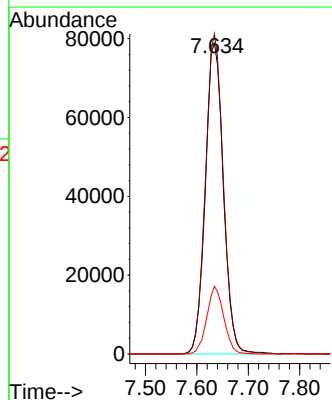
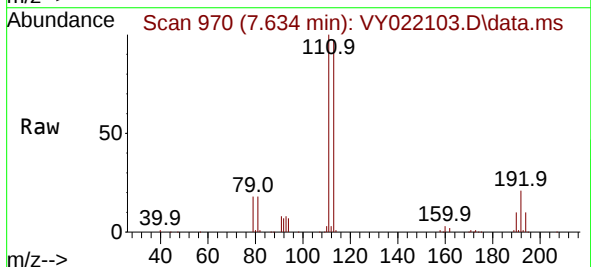
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MH-R-VOC

Tgt Ion:114 Resp: 575618  
Ion Ratio Lower Upper  
114 100  
63 17.6 0.0 35.4  
88 14.0 0.0 28.2



#35  
Dibromofluoromethane  
Concen: 50.590 ug/l  
RT: 7.634 min Scan# 970  
Delta R.T. -0.000 min  
Lab File: VY022103.D  
Acq: 01 May 2025 13:28

Tgt Ion:113 Resp: 192387  
Ion Ratio Lower Upper  
113 100  
111 102.0 81.8 122.8  
192 20.5 15.6 23.4

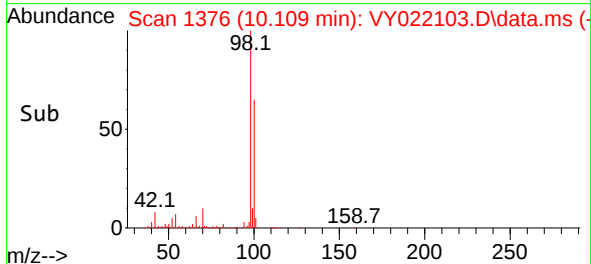
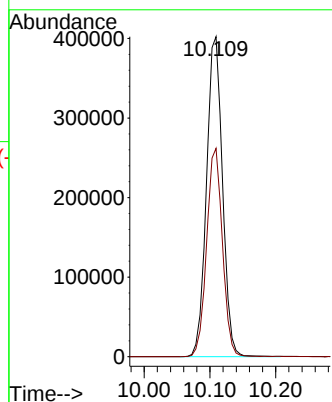
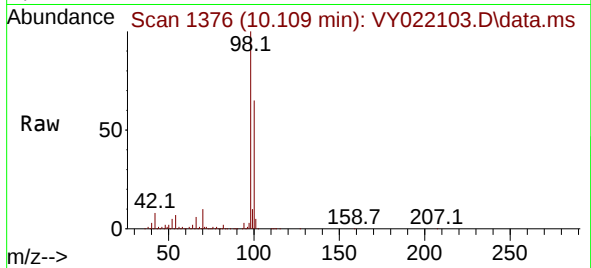




#50  
Toluene-d8  
Concen: 47.445 ug/l  
RT: 10.109 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY022103.D  
Acq: 01 May 2025 13:28

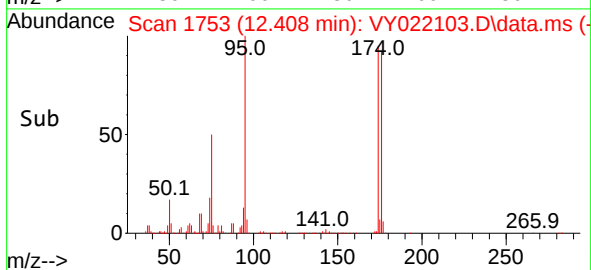
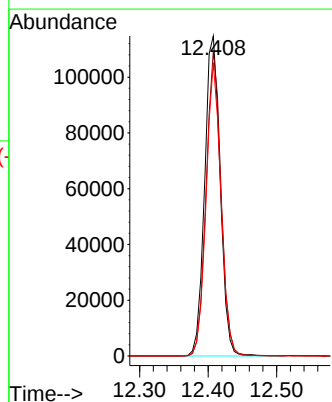
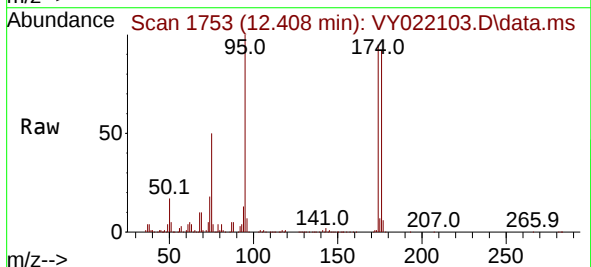
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MH-R-VOC

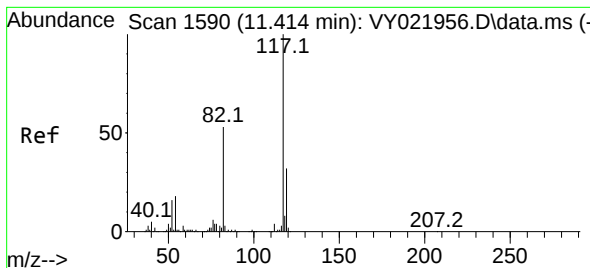
Tgt Ion: 98 Resp: 680203  
Ion Ratio Lower Upper  
98 100  
100 64.2 51.6 77.4



#62  
4-Bromofluorobenzene  
Concen: 37.385 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.006 min  
Lab File: VY022103.D  
Acq: 01 May 2025 13:28

Tgt Ion: 95 Resp: 180430  
Ion Ratio Lower Upper  
95 100  
174 92.3 0.0 179.0  
176 87.9 0.0 171.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY022103.D

Acq: 01 May 2025 13:28

Instrument :

MSVOA\_Y

ClientSampleId :

MH-R-VOC

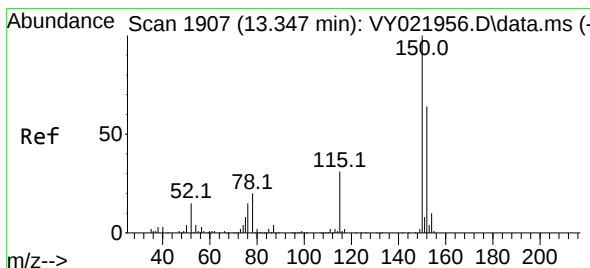
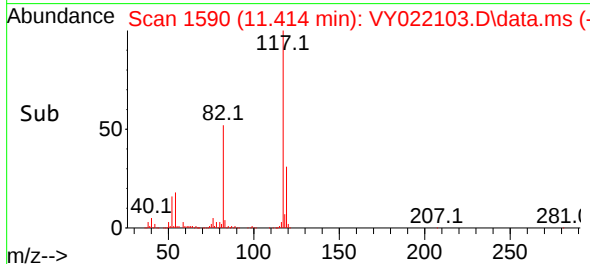
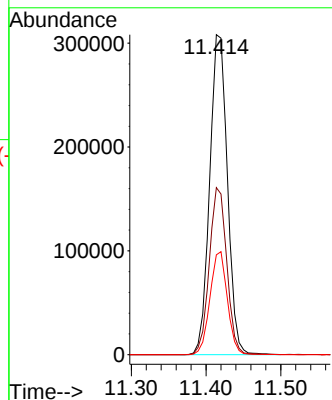
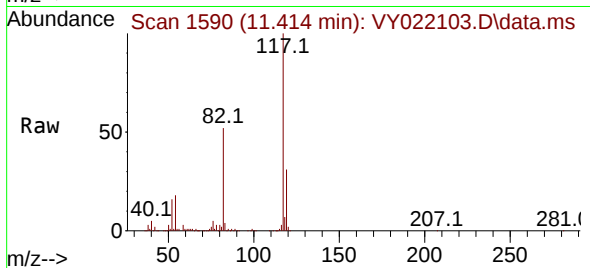
Tgt Ion:117 Resp: 508207

Ion Ratio Lower Upper

117 100

82 52.2 42.1 63.1

119 31.2 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022103.D

Acq: 01 May 2025 13:28

Tgt Ion:152 Resp: 185584

Ion Ratio Lower Upper

152 100

115 55.9 28.0 84.0

150 157.3 0.0 345.6

