

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082825\  
 Data File : VY023224.D  
 Acq On : 28 Aug 2025 14:18  
 Operator : SY/MD  
 Sample : Q2970-19  
 Misc : 4.57g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP9

Quant Time: Aug 29 02:10:33 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 13 02:10:11 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.713  | 168  | 600093   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.616  | 114  | 1121746  | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.414 | 117  | 1021149  | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152  | 414618   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.067  | 65    | 312583   | 54.654   | ug/l | 0.01     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 109.300% |
| 35) Dibromofluoromethane    | 7.634  | 113   | 354977   | 52.886   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 105.780% |
| 50) Toluene-d8              | 10.109 | 98    | 1354480  | 51.655   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 103.300% |
| 62) 4-Bromofluorobenzene    | 12.408 | 95    | 398030   | 47.200   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 94.400%  |

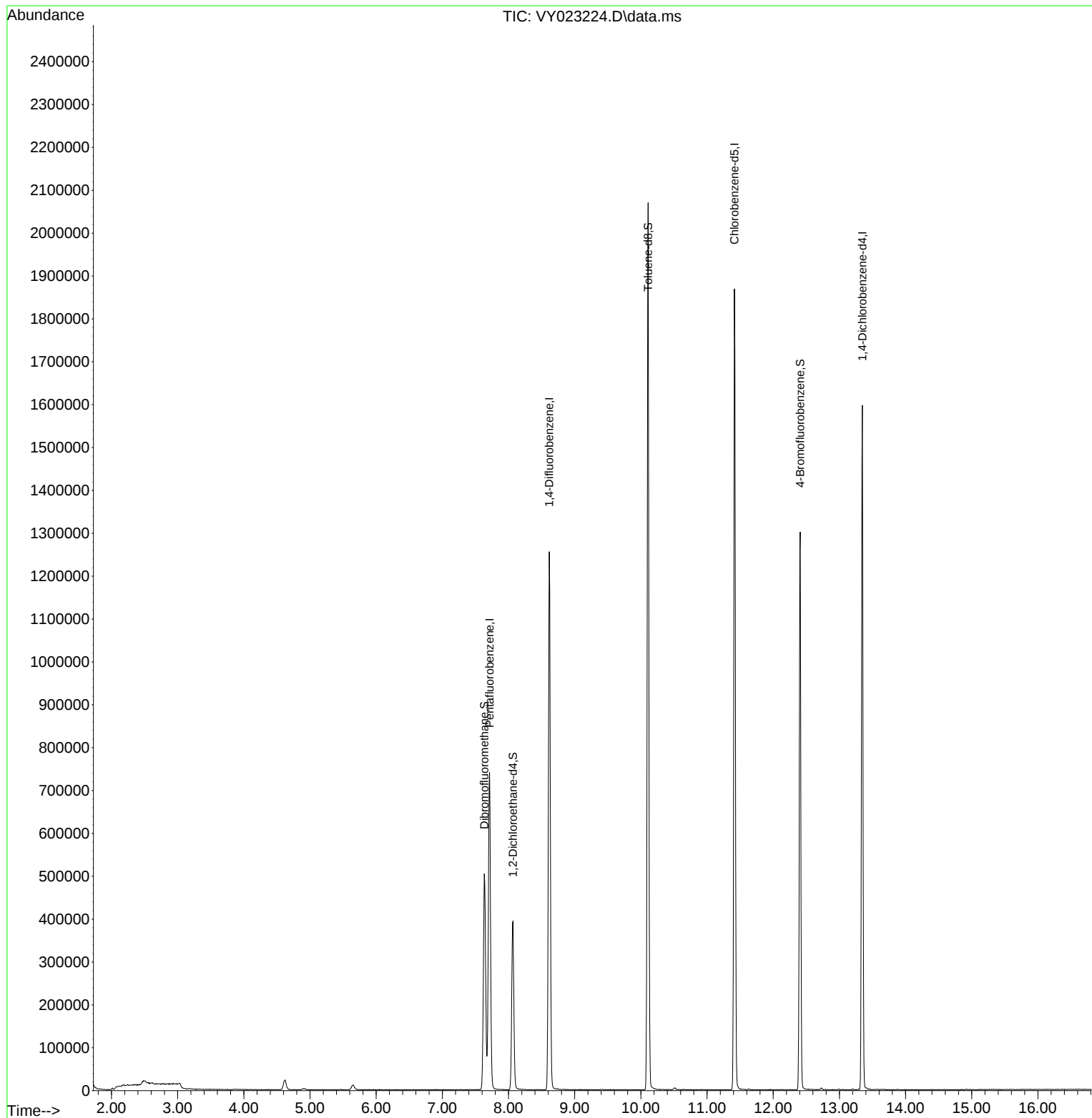
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081225S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 13 02:10:11 2025  
Response via : Initial Calibration

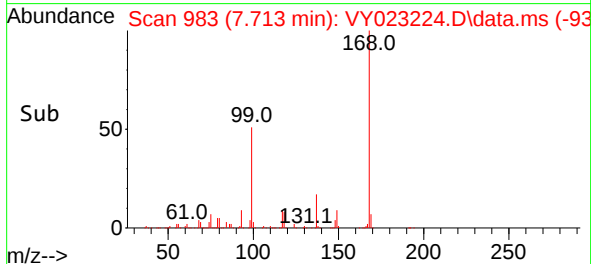
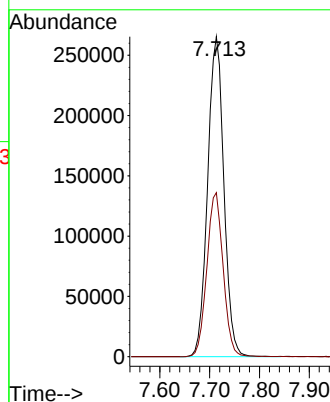
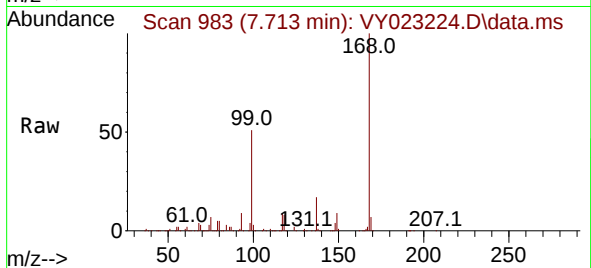




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY023224.D  
Acq: 28 Aug 2025 14:18

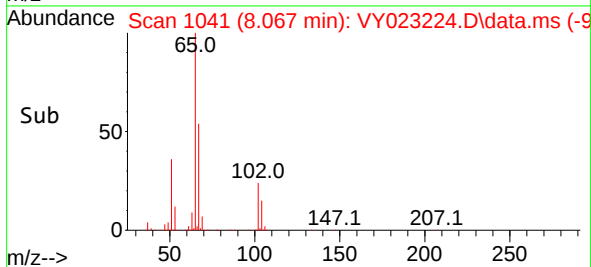
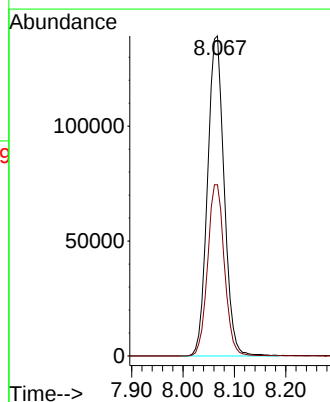
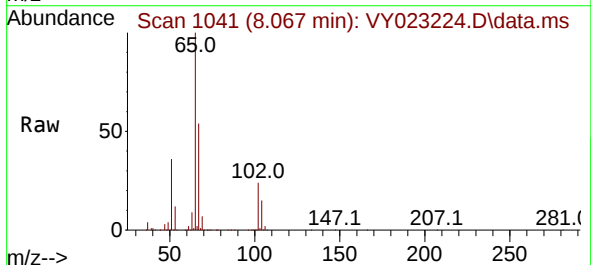
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP9

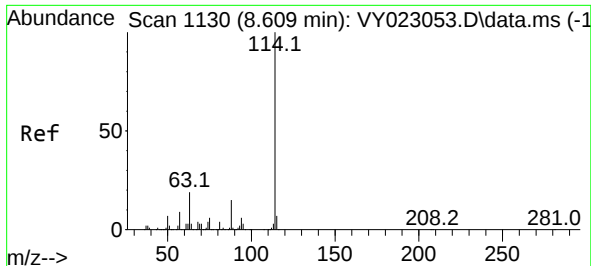
Tgt Ion:168 Resp: 600093  
Ion Ratio Lower Upper  
168 100  
99 51.2 42.8 64.2



#33  
1,2-Dichloroethane-d4  
Concen: 54.654 ug/l  
RT: 8.067 min Scan# 1041  
Delta R.T. 0.012 min  
Lab File: VY023224.D  
Acq: 28 Aug 2025 14:18

Tgt Ion: 65 Resp: 312583  
Ion Ratio Lower Upper  
65 100  
67 54.1 0.0 106.8

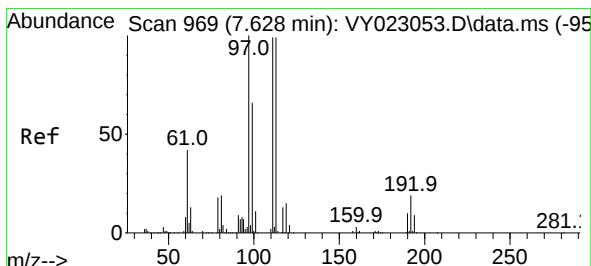
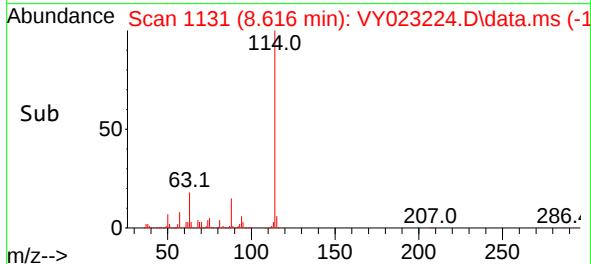
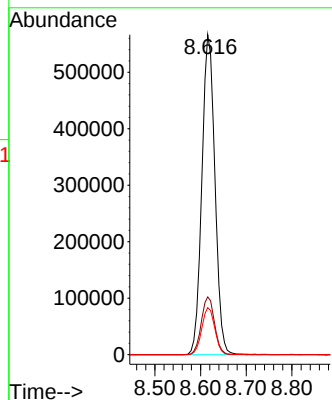
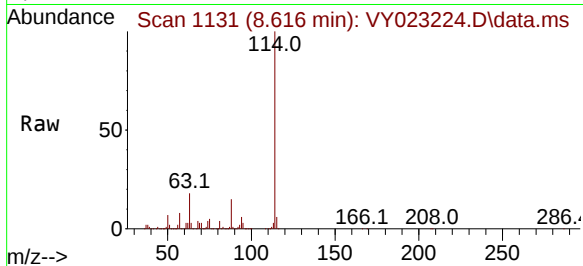




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.616 min Scan# 1131  
Delta R.T. 0.006 min  
Lab File: VY023224.D  
Acq: 28 Aug 2025 14:18

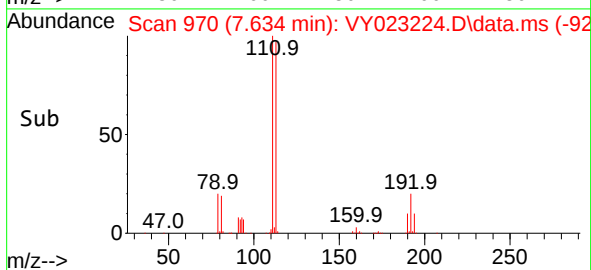
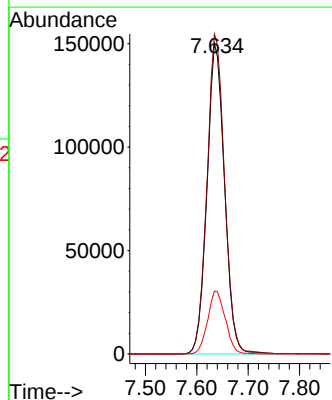
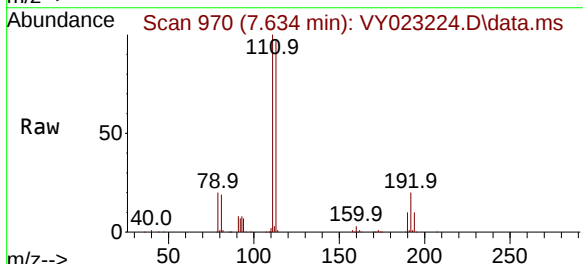
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP9

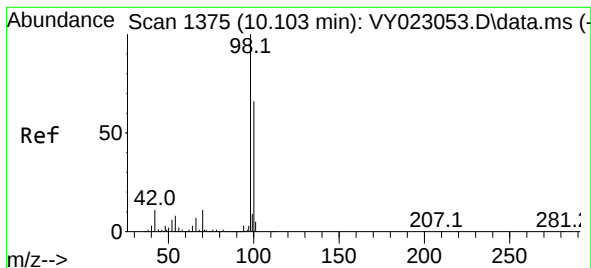
Tgt Ion:114 Resp: 1121746  
Ion Ratio Lower Upper  
114 100  
63 18.1 0.0 38.4  
88 14.7 0.0 30.0



#35  
Dibromofluoromethane  
Concen: 52.886 ug/l  
RT: 7.634 min Scan# 970  
Delta R.T. 0.006 min  
Lab File: VY023224.D  
Acq: 28 Aug 2025 14:18

Tgt Ion:113 Resp: 354977  
Ion Ratio Lower Upper  
113 100  
111 103.6 81.1 121.7  
192 20.4 16.2 24.4

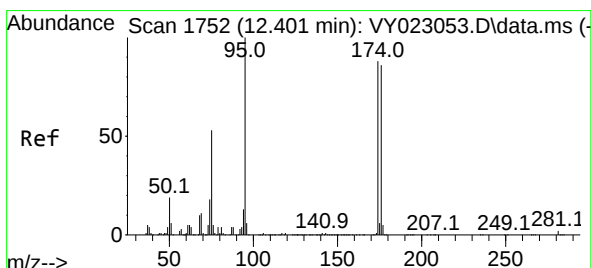
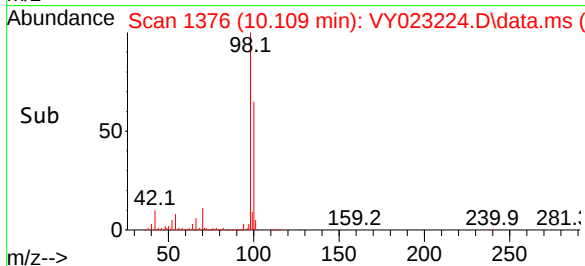
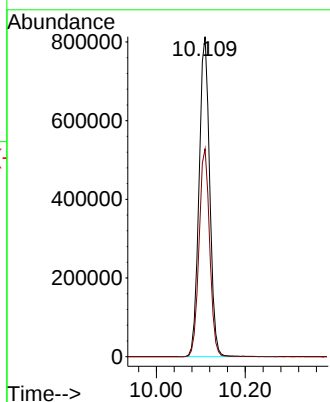
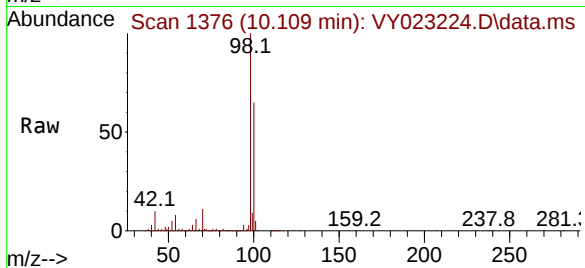




#50  
Toluene-d8  
Concen: 51.655 ug/l  
RT: 10.109 min Scan# 1375  
Delta R.T. 0.006 min  
Lab File: VY023224.D  
Acq: 28 Aug 2025 14:18

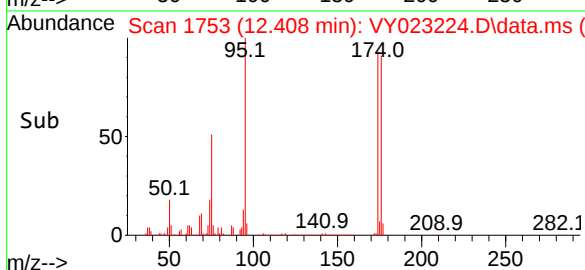
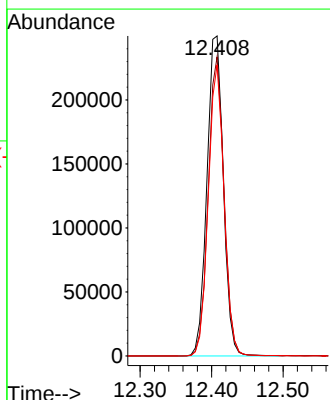
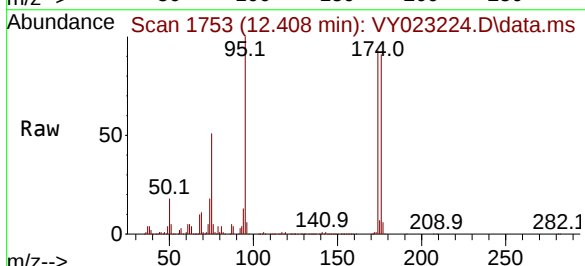
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP9

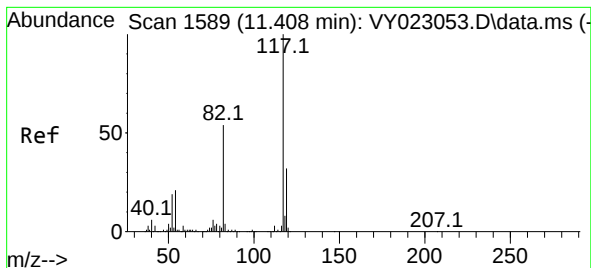
Tgt Ion: 98 Resp: 1354480  
Ion Ratio Lower Upper  
98 100  
100 65.0 52.3 78.5



#62  
4-Bromofluorobenzene  
Concen: 47.200 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.006 min  
Lab File: VY023224.D  
Acq: 28 Aug 2025 14:18

Tgt Ion: 95 Resp: 398030  
Ion Ratio Lower Upper  
95 100  
174 90.4 0.0 171.6  
176 87.2 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023224.D

Acq: 28 Aug 2025 14:18

Instrument :

MSVOA\_Y

ClientSampleId :

TP9

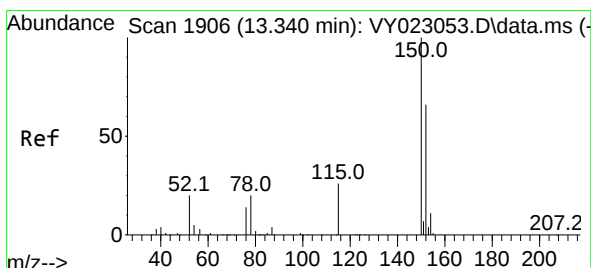
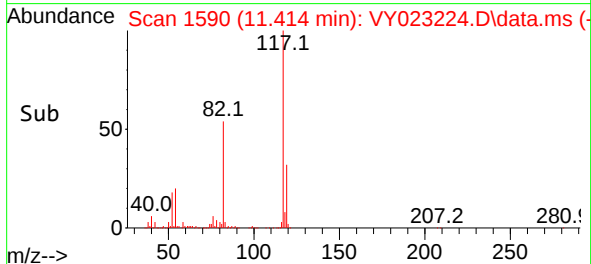
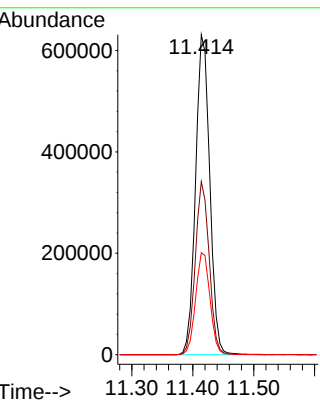
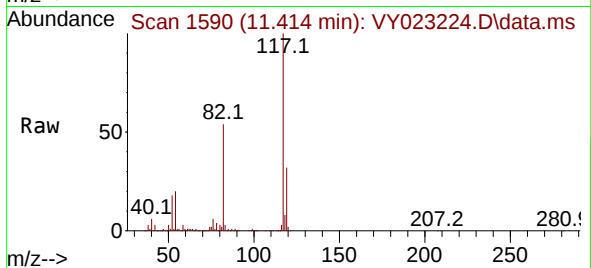
Tgt Ion:117 Resp: 1021149

Ion Ratio Lower Upper

117 100

82 54.1 43.4 65.0

119 31.9 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY023224.D

Acq: 28 Aug 2025 14:18

Tgt Ion:152 Resp: 414618

Ion Ratio Lower Upper

152 100

115 56.3 28.2 84.6

150 155.7 0.0 348.0

