

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021825\  
 Data File : VY021232.D  
 Acq On : 18 Feb 2025 15:52  
 Operator : SY/MD  
 Sample : Q1374-01  
 Misc : 5.08g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TR-05-02142025

Quant Time: Feb 19 04:15:28 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020325S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 03 13:08:38 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.732  | 168  | 189      | 50.000 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 8.628  | 114  | 400      | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.426 | 117  | 205      | 50.000 | ug/l  | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4 | 0.000  | 152  | 0        | 0.000  | ug/l  | -13.35   |

|                             |        |       |          |          |      |           |
|-----------------------------|--------|-------|----------|----------|------|-----------|
| System Monitoring Compounds |        |       |          |          |      |           |
| 33) 1,2-Dichloroethane-d4   | 8.073  | 65    | 299      | 154.406  | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 308.820%# |
| 35) Dibromofluoromethane    | 7.646  | 113   | 251      | 97.914   | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 195.820%# |
| 50) Toluene-d8              | 10.115 | 98    | 273      | 27.973   | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 55.940%#  |
| 62) 4-Bromofluorobenzene    | 12.420 | 95    | 72       | 22.582   | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 45.160%   |

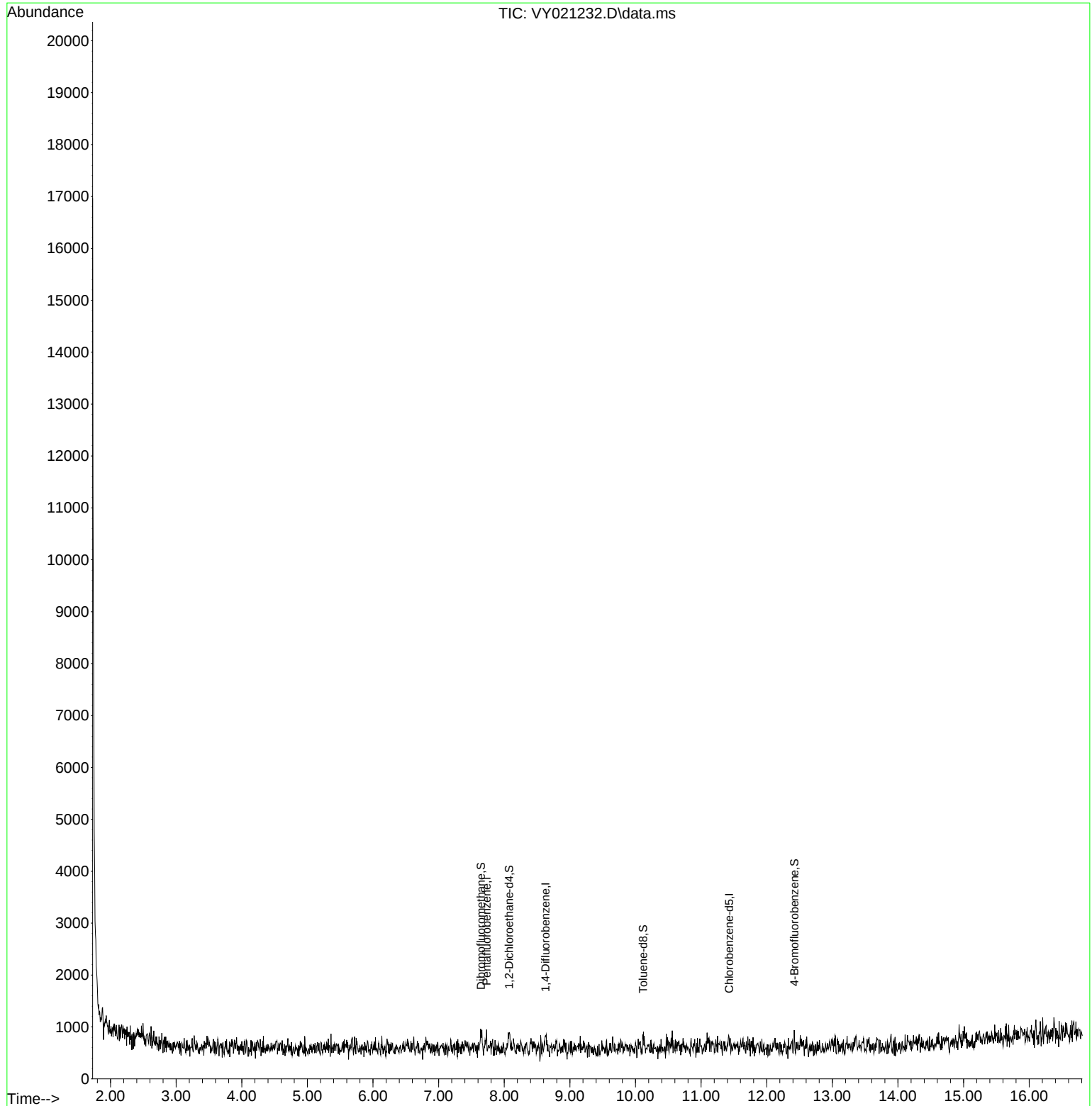
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

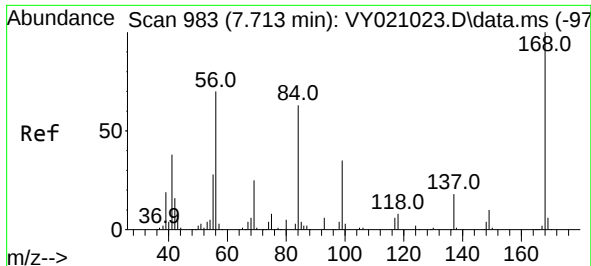
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021825\  
Data File : VY021232.D  
Acq On : 18 Feb 2025 15:52  
Operator : SY/MD  
Sample : Q1374-01  
Misc : 5.08g/5.0mL/MSVOA\_Y/SOIL/B  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-05-02142025

Quant Time: Feb 19 04:15:28 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020325S.M  
Quant Title : SW846 8260  
QLast Update : Mon Feb 03 13:08:38 2025  
Response via : Initial Calibration

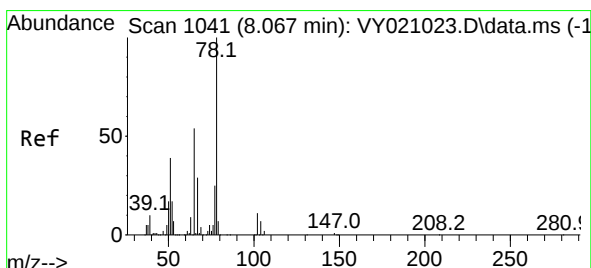
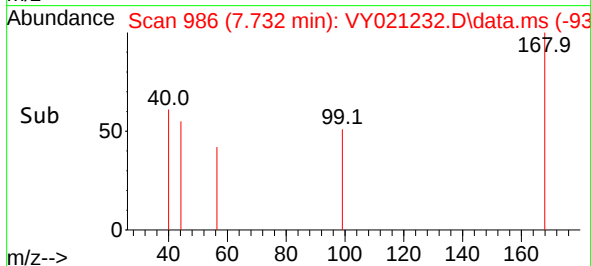
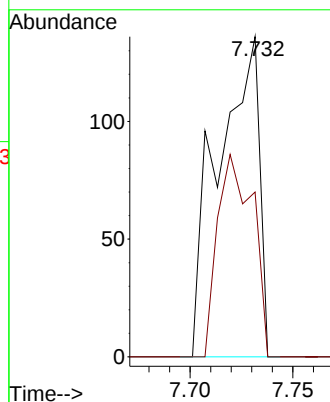
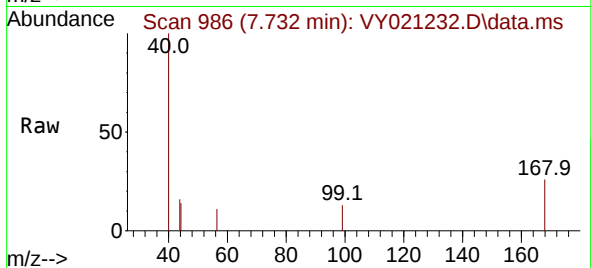




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.732 min Scan# 99  
Delta R.T. 0.019 min  
Lab File: VY021232.D  
Acq: 18 Feb 2025 15:52

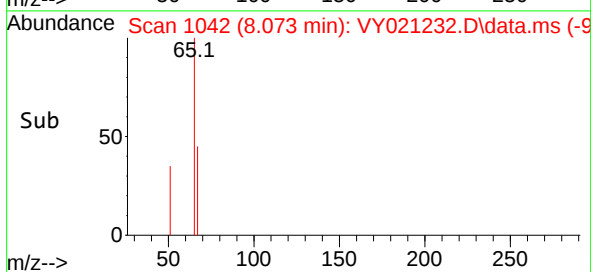
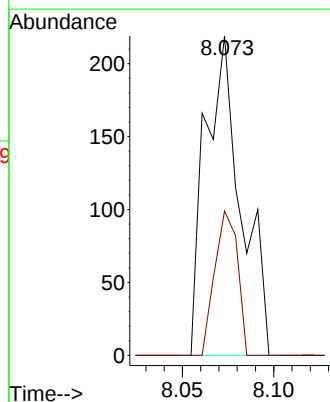
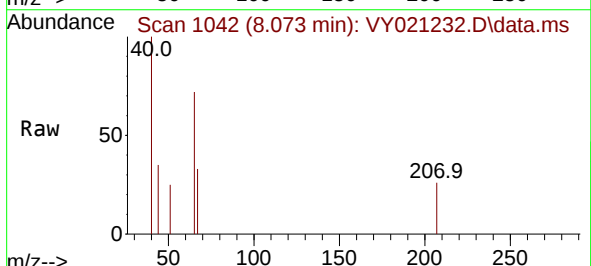
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-05-02142025

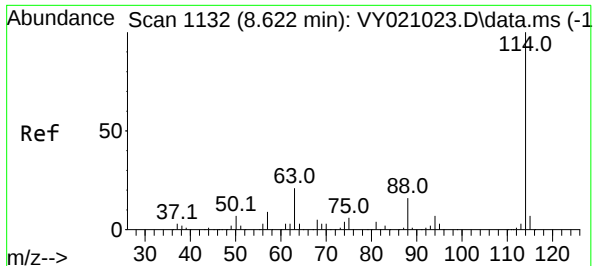
Tgt Ion:168 Resp: 189  
Ion Ratio Lower Upper  
168 100  
99 51.5 44.2 66.4



#33  
1,2-Dichloroethane-d4  
Concen: 154.406 ug/l  
RT: 8.073 min Scan# 1042  
Delta R.T. 0.006 min  
Lab File: VY021232.D  
Acq: 18 Feb 2025 15:52

Tgt Ion: 65 Resp: 299  
Ion Ratio Lower Upper  
65 100  
67 28.8 0.0 109.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.628 min Scan# 1133

Delta R.T. 0.006 min

Lab File: VY021232.D

Acq: 18 Feb 2025 15:52

Instrument :

MSVOA\_Y

ClientSampleId :

TR-05-02142025

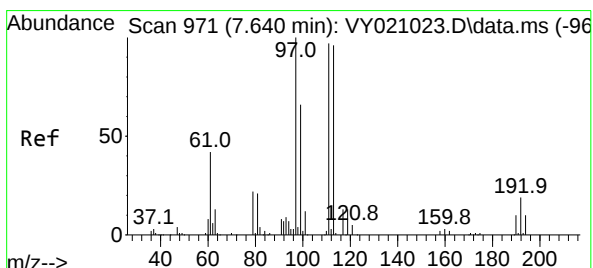
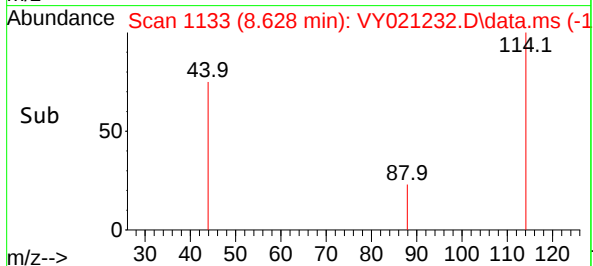
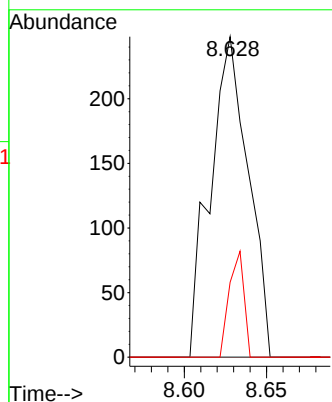
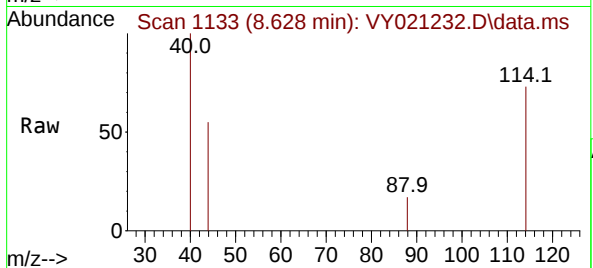
Tgt Ion:114 Resp: 400

Ion Ratio Lower Upper

114 100

63 0.0 0.0 37.4

88 23.4 0.0 29.0



#35

Dibromofluoromethane

Concen: 97.914 ug/l

RT: 7.646 min Scan# 972

Delta R.T. 0.006 min

Lab File: VY021232.D

Acq: 18 Feb 2025 15:52

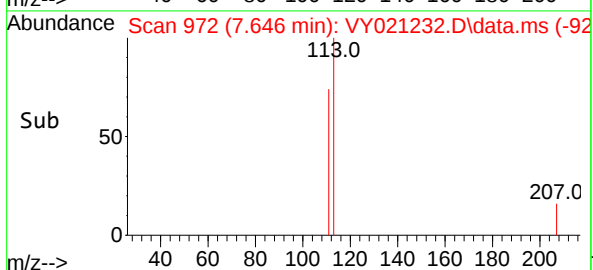
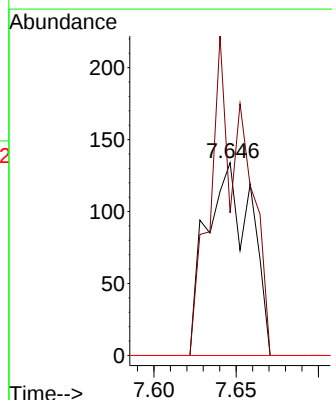
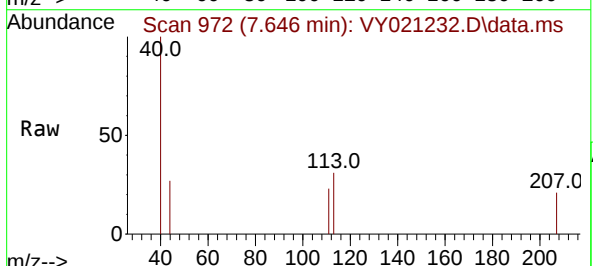
Tgt Ion:113 Resp: 251

Ion Ratio Lower Upper

113 100

111 128.7 83.8 125.6#

192 0.0 14.5 21.7#

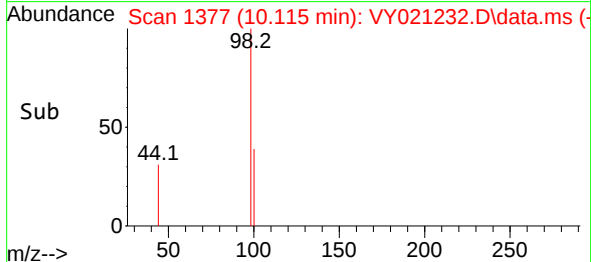
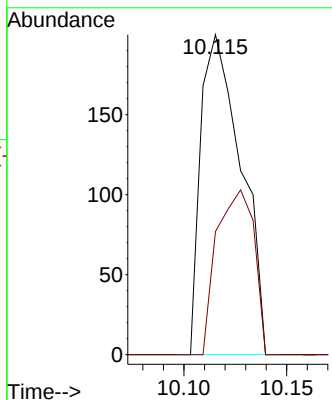
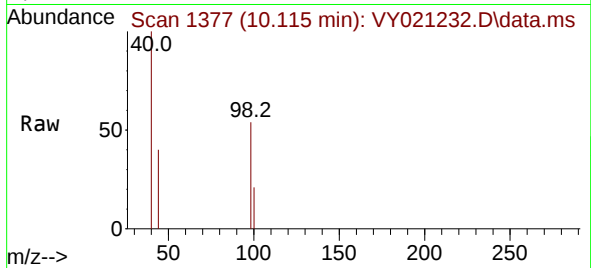




#50  
Toluene-d8  
Concen: 27.973 ug/l  
RT: 10.115 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY021232.D  
Acq: 18 Feb 2025 15:52

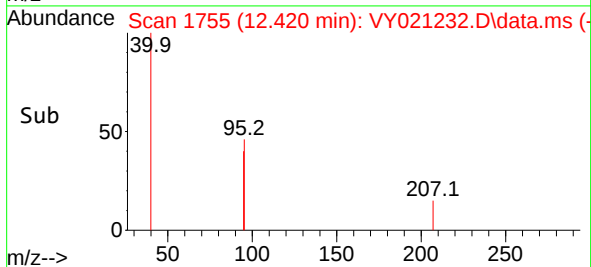
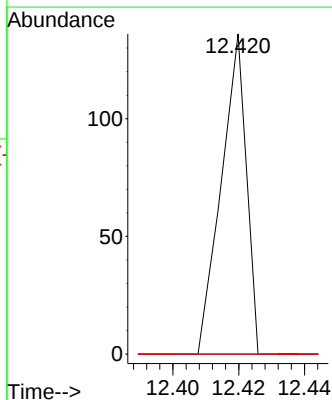
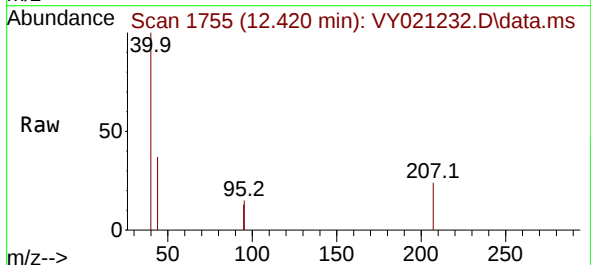
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-05-02142025

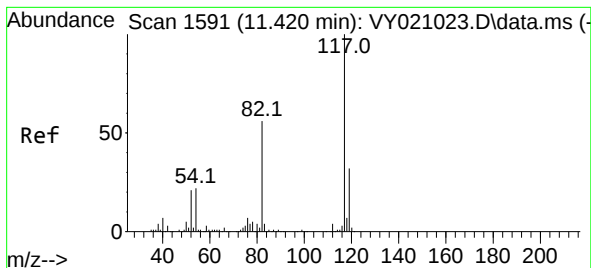
Tgt Ion: 98 Resp: 273  
Ion Ratio Lower Upper  
98 100  
100 47.6 52.3 78.5#



#62  
4-Bromofluorobenzene  
Concen: 22.582 ug/l  
RT: 12.420 min Scan# 1755  
Delta R.T. 0.006 min  
Lab File: VY021232.D  
Acq: 18 Feb 2025 15:52

Tgt Ion: 95 Resp: 72  
Ion Ratio Lower Upper  
95 100  
174 0.0 0.0 160.0  
176 0.0 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.426 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY021232.D

Acq: 18 Feb 2025 15:52

Instrument :

MSVOA\_Y

ClientSampleId :

TR-05-02142025

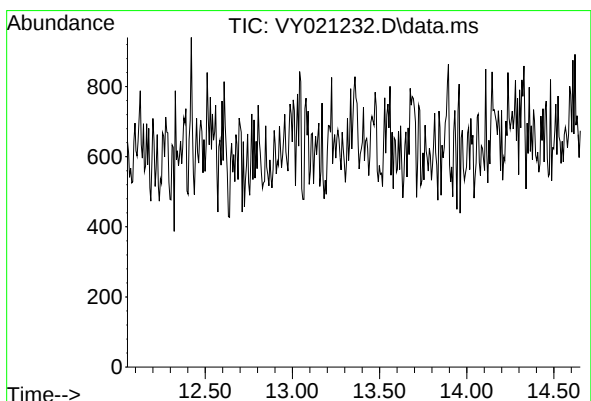
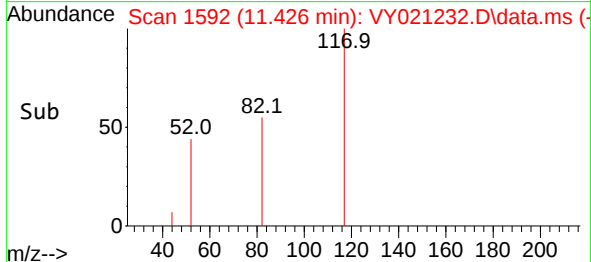
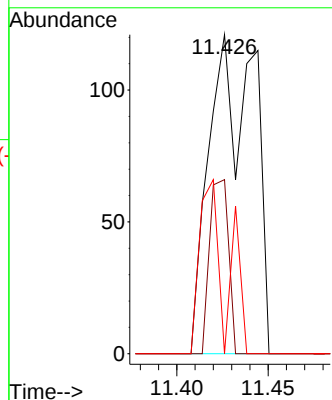
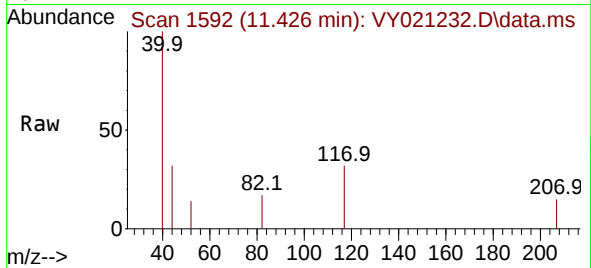
Tgt Ion:117 Resp: 205

Ion Ratio Lower Upper

117 100

82 54.5 43.8 65.8

119 0.0 26.5 39.7#



#72

1,4-Dichlorobenzene-d4

Concen: 0.000 ug/l

Expected RT: 13.35 min

Lab File: VY021232.D

Acq: 18 Feb 2025 15:52

Tgt Ion: 152

Sig Exp Ratio

152 100

115 60.0

150 172.3

