

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN063025\  
 Data File : VN087237.D  
 Acq On : 30 Jun 2025 12:07  
 Operator : JC\MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IBLK

Quant Time: Jul 01 03:19:41 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N063025W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 01 03:15:00 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.229  | 168  | 123897   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.106  | 114  | 231436   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.865 | 117  | 213688   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152  | 106430   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.582  | 65    | 85847    | 55.208   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | =    | 110.420% |
| 35) Dibromofluoromethane    | 8.177  | 113   | 73858    | 49.840   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 99.680%  |
| 50) Toluene-d8              | 10.565 | 98    | 281397   | 48.717   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | =    | 97.440%  |
| 62) 4-Bromofluorobenzene    | 12.847 | 95    | 95299    | 46.370   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 77 - 121 | Recovery | =    | 92.740%  |

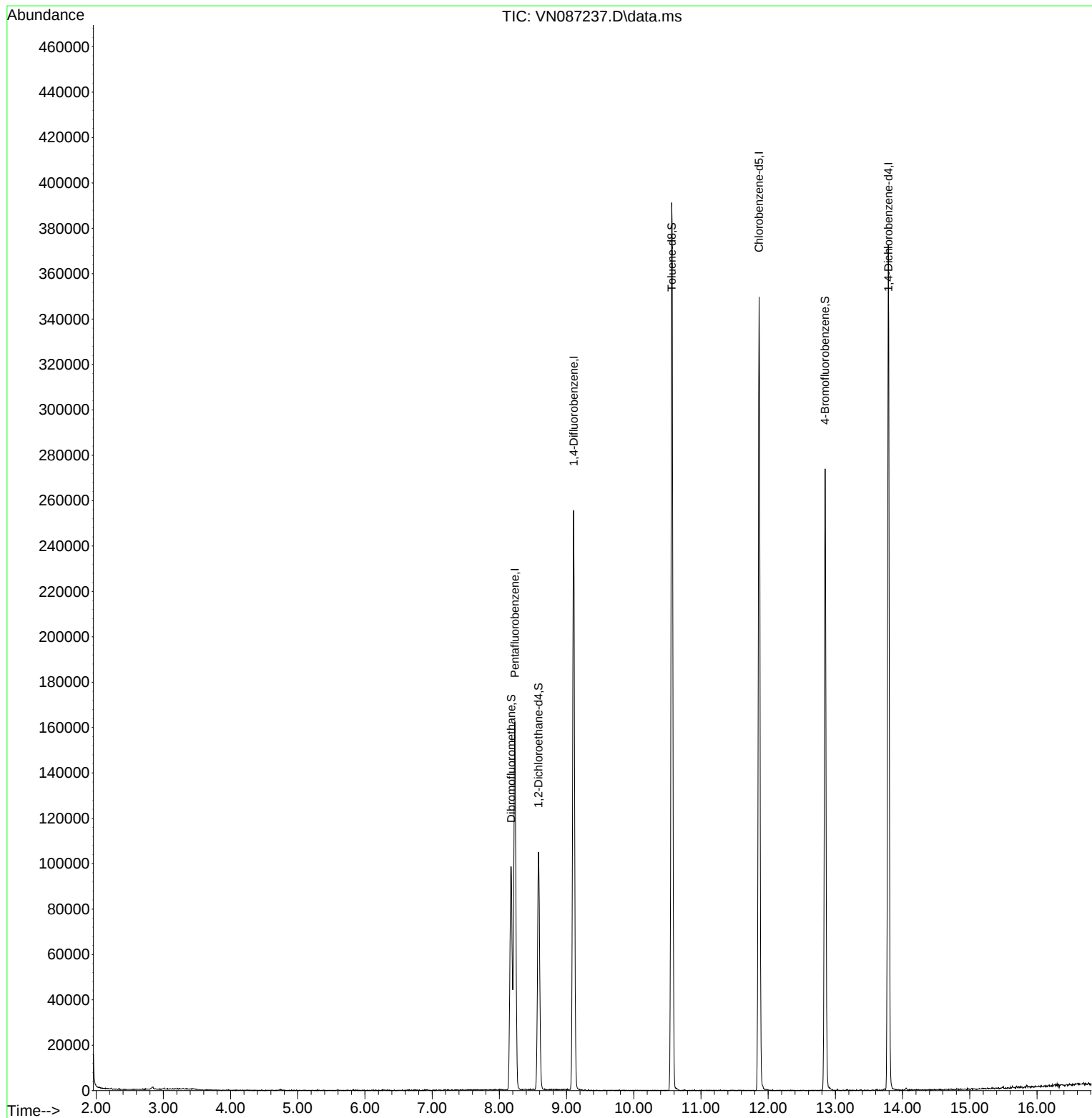
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

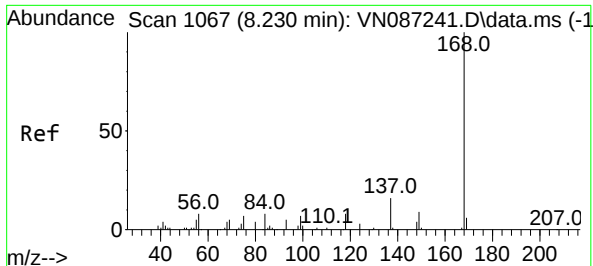
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 01 03:15:00 2025  
Response via : Initial Calibration

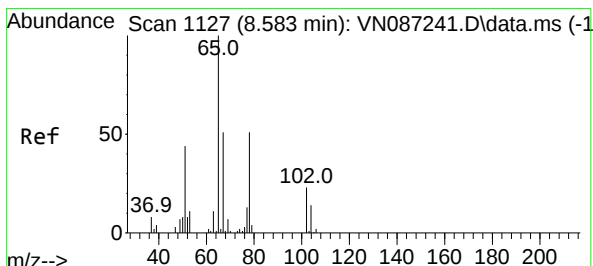
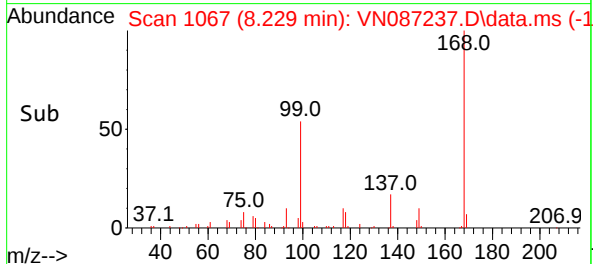
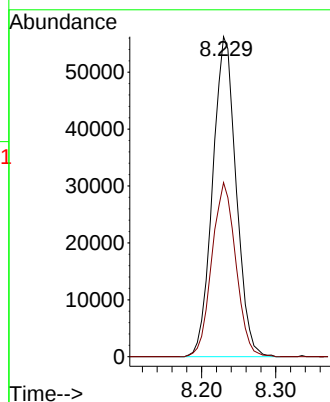
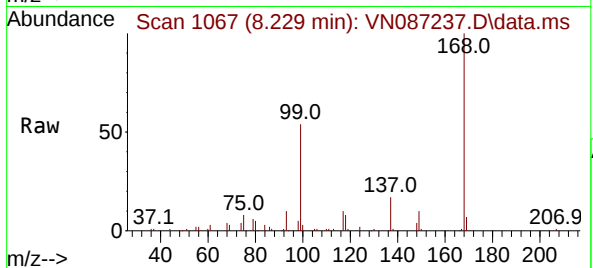




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.229 min Scan# 1067  
Delta R.T. -0.001 min  
Lab File: VN087237.D  
Acq: 30 Jun 2025 12:07

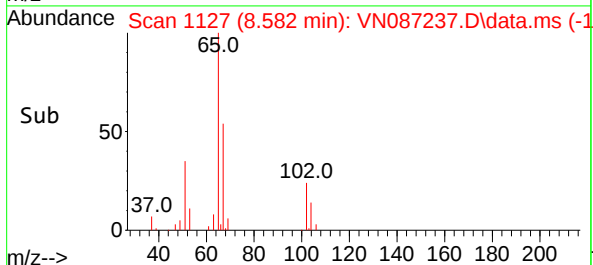
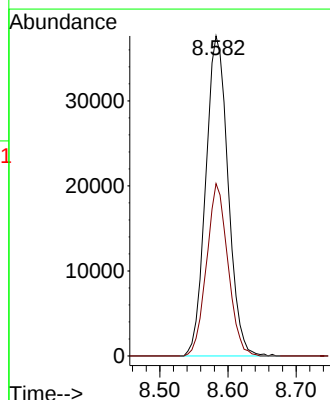
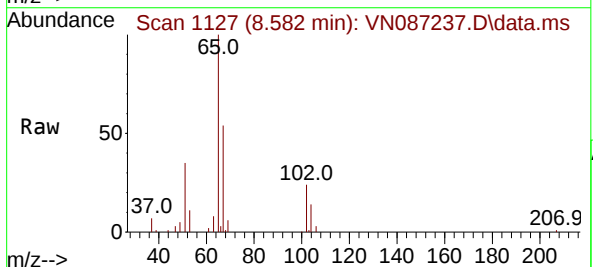
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

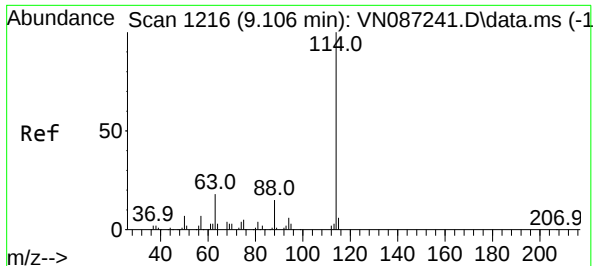
Tgt Ion:168 Resp: 123897  
Ion Ratio Lower Upper  
168 100  
99 54.4 42.6 64.0



#33  
1,2-Dichloroethane-d4  
Concen: 55.208 ug/l  
RT: 8.582 min Scan# 1127  
Delta R.T. -0.000 min  
Lab File: VN087237.D  
Acq: 30 Jun 2025 12:07

Tgt Ion: 65 Resp: 85847  
Ion Ratio Lower Upper  
65 100  
67 51.5 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087237.D

Acq: 30 Jun 2025 12:07

Instrument :

MSVOA\_N

ClientSampleId :

IBLK

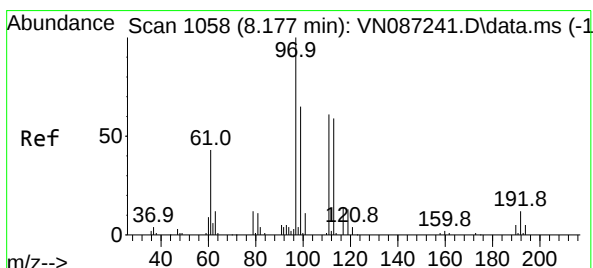
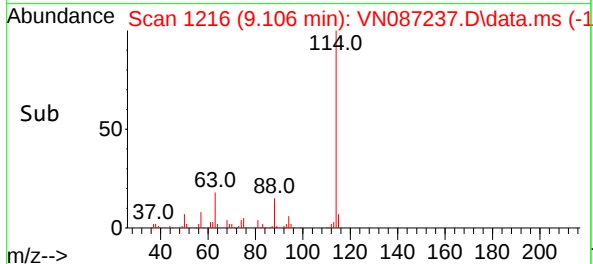
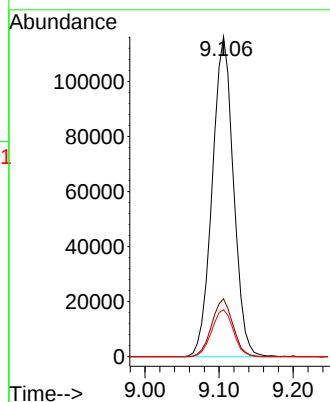
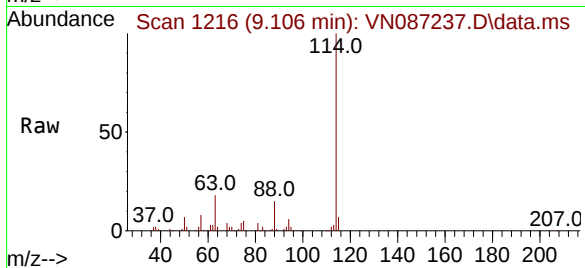
Tgt Ion:114 Resp: 231436

Ion Ratio Lower Upper

114 100

63 18.1 0.0 36.6

88 14.7 0.0 29.6



#35

Dibromofluoromethane

Concen: 49.840 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VN087237.D

Acq: 30 Jun 2025 12:07

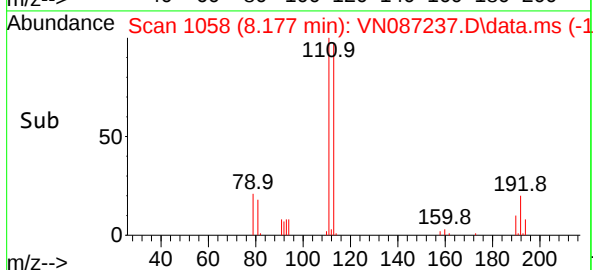
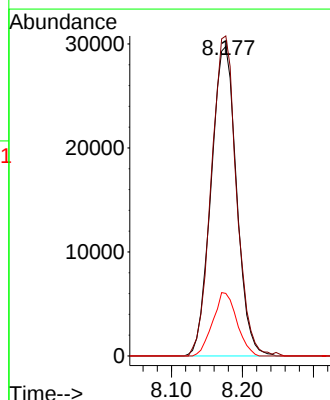
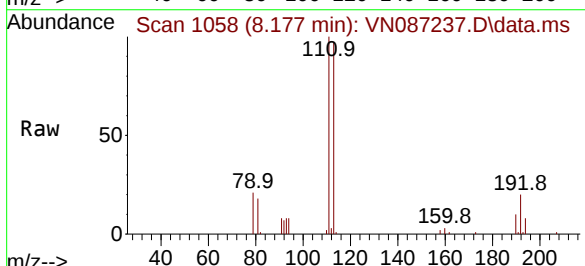
Tgt Ion:113 Resp: 73858

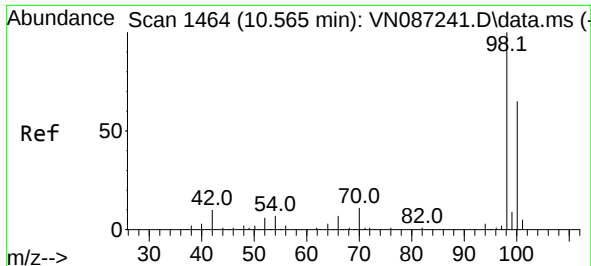
Ion Ratio Lower Upper

113 100

111 102.2 81.4 122.2

192 19.4 15.1 22.7

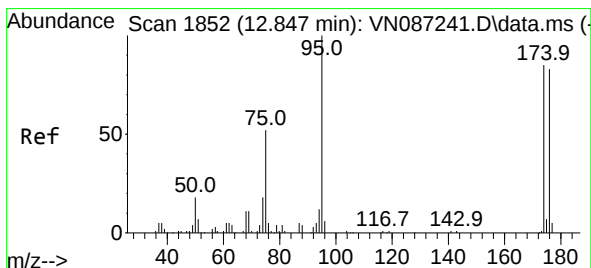
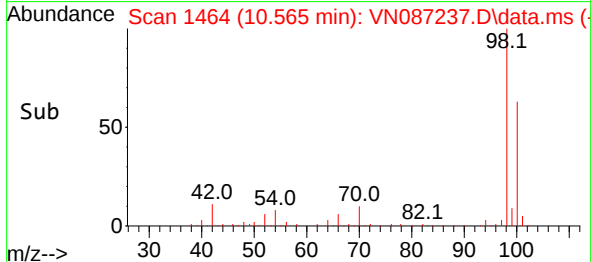
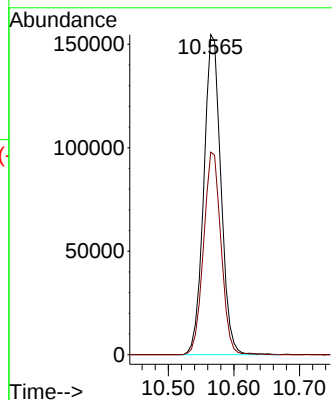
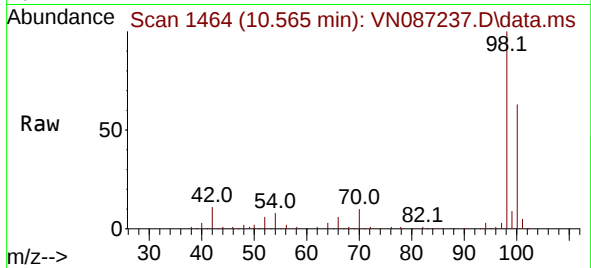




#50  
Toluene-d8  
Concen: 48.717 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN087237.D  
Acq: 30 Jun 2025 12:07

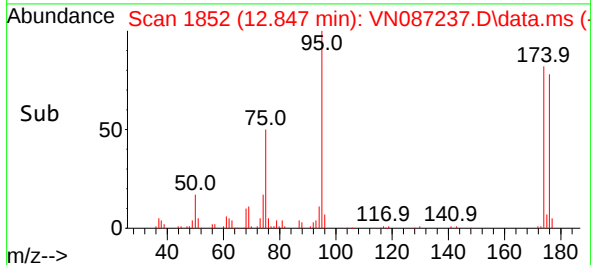
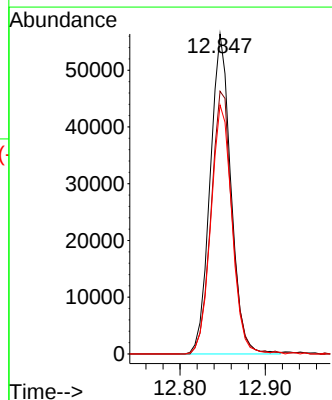
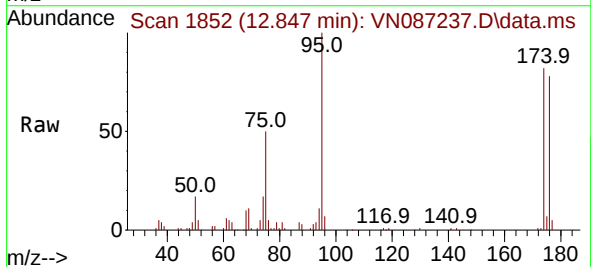
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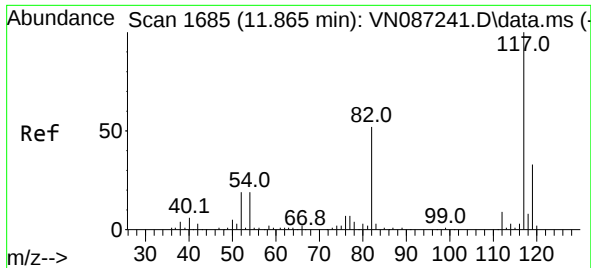
Tgt Ion: 98 Resp: 281397  
Ion Ratio Lower Upper  
98 100  
100 64.5 52.1 78.1



#62  
4-Bromofluorobenzene  
Concen: 46.370 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN087237.D  
Acq: 30 Jun 2025 12:07

Tgt Ion: 95 Resp: 95299  
Ion Ratio Lower Upper  
95 100  
174 84.0 0.0 169.6  
176 79.2 0.0 161.6

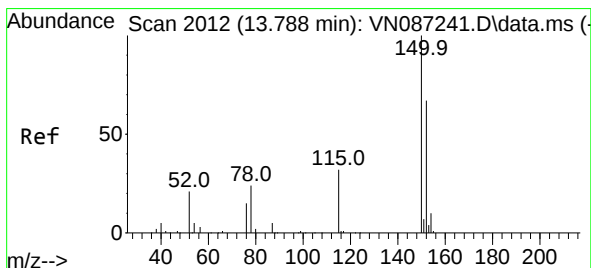
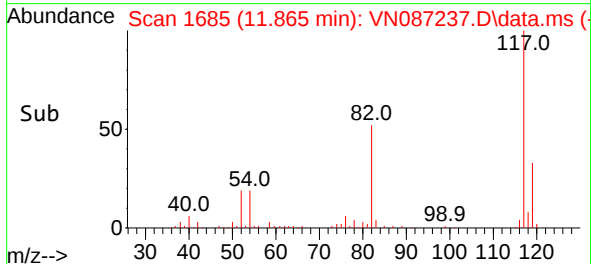
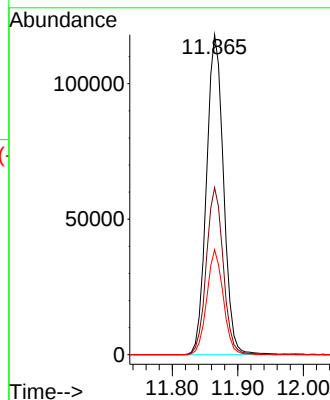
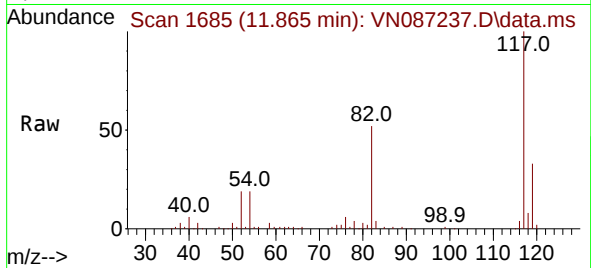




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN087237.D  
Acq: 30 Jun 2025 12:07

Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

Tgt Ion:117 Resp: 213688  
Ion Ratio Lower Upper  
117 100  
82 52.2 41.9 62.9  
119 32.8 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. -0.000 min  
Lab File: VN087237.D  
Acq: 30 Jun 2025 12:07

Tgt Ion:152 Resp: 106430  
Ion Ratio Lower Upper  
152 100  
115 57.5 28.3 84.9  
150 155.1 0.0 344.6

