

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061125\  
 Data File : VN086956.D  
 Acq On : 11 Jun 2025 18:04  
 Operator : JC\MD  
 Sample : Q2231-04  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

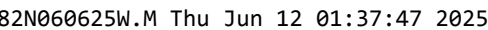
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-16D-20250604

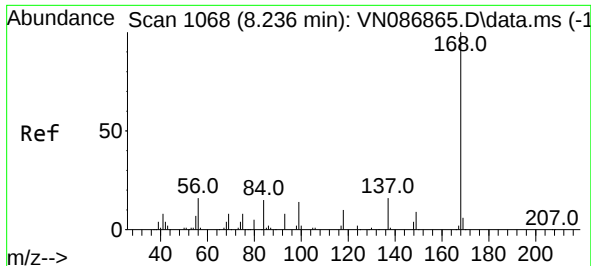
Quant Time: Jun 12 01:37:38 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060625W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 07 02:12:50 2025  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) Pentafluorobenzene         | 8.235          | 168  | 369027     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 692660     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 610187     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 297804     | 50.000   | ug/l   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.588          | 65   | 228537     | 46.254   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 92.500%  |        |          |
| 35) Dibromofluoromethane      | 8.177          | 113  | 201982     | 49.206   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 98.420%  |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 837063     | 51.511   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 103.020% |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 300711     | 49.808   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = | 99.620%  |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          | Qvalue |          |
| 16) Acetone                   | 4.459          | 43   | 3952       | 1.508    | ug/l # | 85       |
| 25) 2-Butanone                | 7.500          | 43   | 2792       | 0.656    | ug/l # | 73       |
| 28) Bromochloromethane        | 7.983          | 49   | 6291       | 1.548    | ug/l # | 13       |
| 30) Chloroform                | 7.971          | 83   | 96211      | 11.659   | ug/l   | 94       |
| 31) Cyclohexane               | 8.235          | 56   | 5916       | 0.738    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.235          | 75   | 27274      | 4.459    | ug/l # | 49       |
| 37) Ethyl Acetate             | 7.500          | 43   | 2792       | 0.359    | ug/l # | 66       |
| 38) Carbon Tetrachloride      | 8.235          | 117  | 36191      | 6.027    | ug/l # | 16       |
| 51) 4-Methyl-2-Pentanone      | 10.571         | 43   | 2600       | 0.346    | ug/l # | 1        |
| 60) Dibromochloromethane      | 11.106         | 129  | 2444       | 0.499    | ug/l # | 11       |
| 64) Tetrachloroethene         | 11.106         | 164  | 2616       | 0.677    | ug/l # | 85       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 136380     | 19.266   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 136380     | 44.349   | ug/l # | 16       |
| 84) 1,2,4-Trimethylbenzene    | 13.482         | 105  | 13139      | 0.732    | ug/l   | 100      |
| 95) Naphthalene               | 15.635         | 128  | 133024     | 5.951    | ug/l   | 100      |
| -----                         |                |      |            |          |        |          |

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

Quant Time: Jun 12 01:37:38 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060625W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 07 02:12:50 2025  
Response via : Initial Calibration

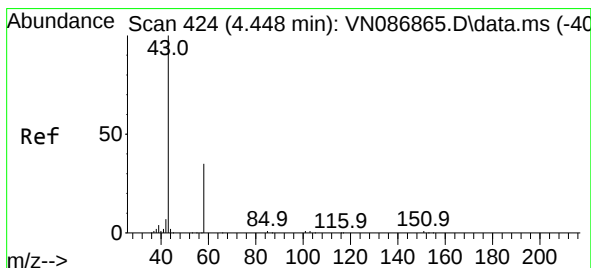
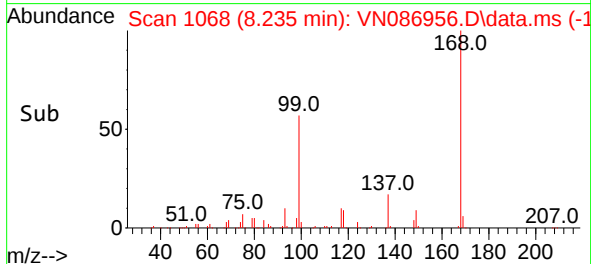
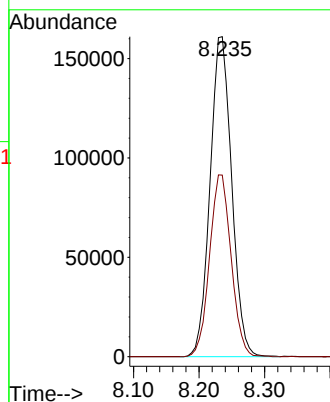
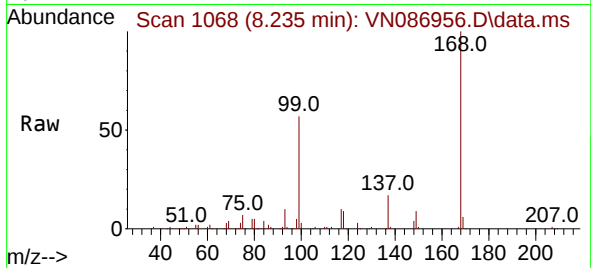




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.235 min Scan# 1068  
Delta R.T. -0.001 min  
Lab File: VN086956.D  
Acq: 11 Jun 2025 18:04

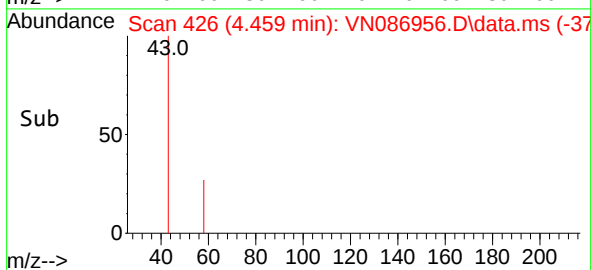
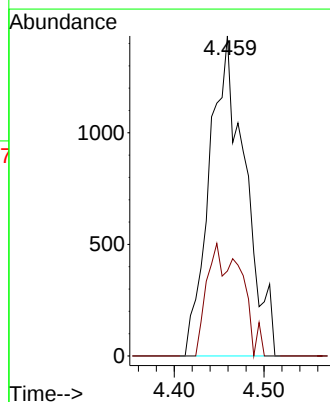
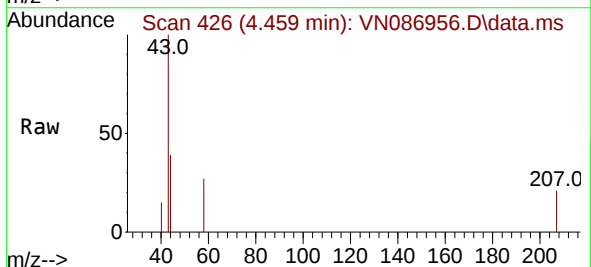
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16D-20250604

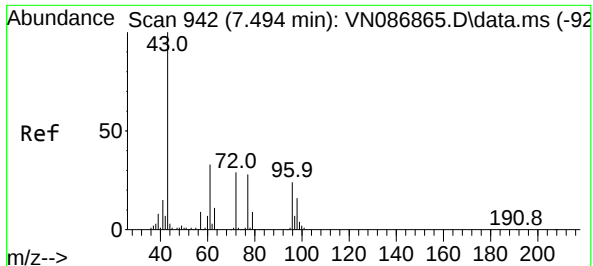
Tgt Ion:168 Resp: 369027  
Ion Ratio Lower Upper  
168 100  
99 56.7 49.1 73.7



#16  
Acetone  
Concen: 1.508 ug/l  
RT: 4.459 min Scan# 426  
Delta R.T. 0.012 min  
Lab File: VN086956.D  
Acq: 11 Jun 2025 18:04

Tgt Ion: 43 Resp: 3952  
Ion Ratio Lower Upper  
43 100  
58 26.6 28.0 42.0#

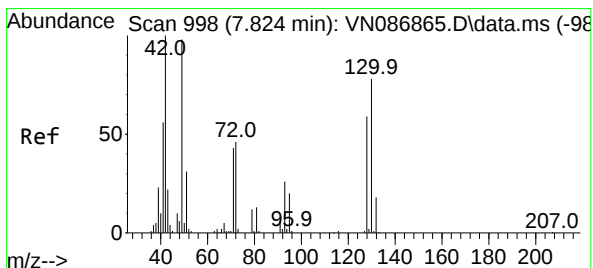
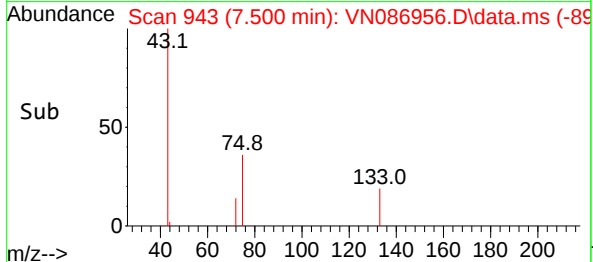
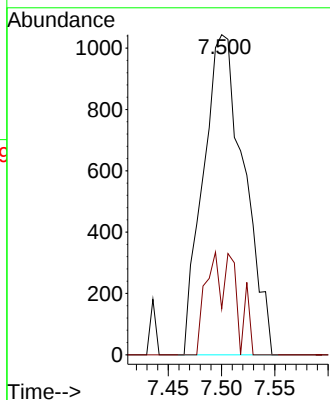
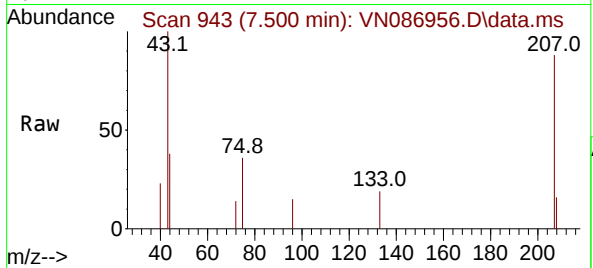




#25  
2-Butanone  
Concen: 0.656 ug/l  
RT: 7.500 min Scan# 94  
Delta R.T. 0.006 min  
Lab File: VN086956.D  
Acq: 11 Jun 2025 18:04

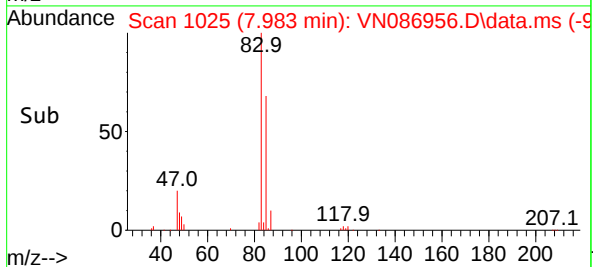
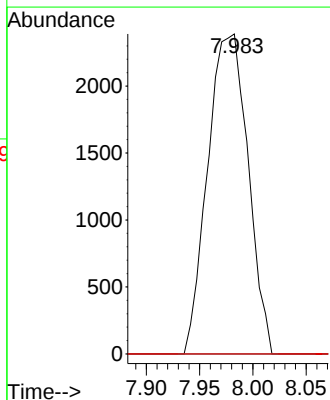
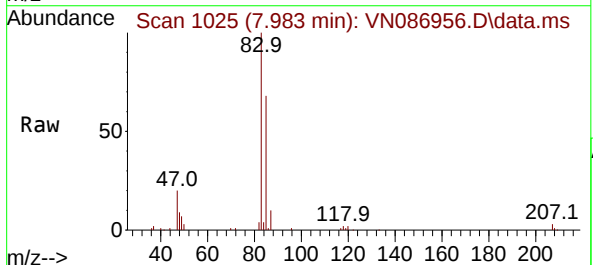
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16D-20250604

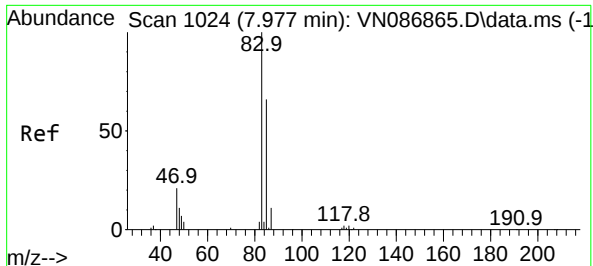
Tgt Ion: 43 Resp: 2792  
Ion Ratio Lower Upper  
43 100  
72 14.4 23.0 34.6#



#28  
Bromochloromethane  
Concen: 1.548 ug/l  
RT: 7.983 min Scan# 1025  
Delta R.T. 0.159 min  
Lab File: VN086956.D  
Acq: 11 Jun 2025 18:04

Tgt Ion: 49 Resp: 6291  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 3.8  
130 0.0 62.2 93.2#





#30

Chloroform

Concen: 11.659 ug/l

RT: 7.971 min Scan# 1068

Delta R.T. -0.006 min

Lab File: VN086956.D

Acq: 11 Jun 2025 18:04

Instrument :

MSVOA\_N

ClientSampleId :

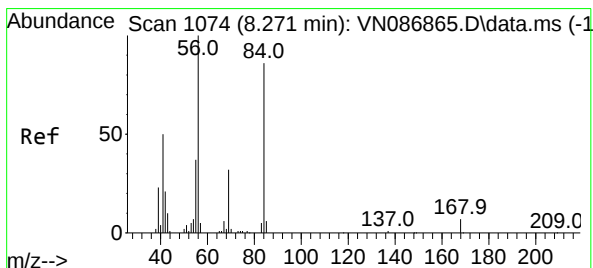
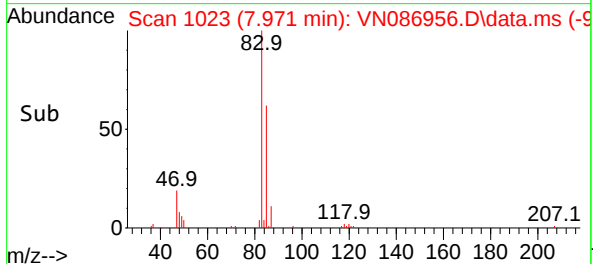
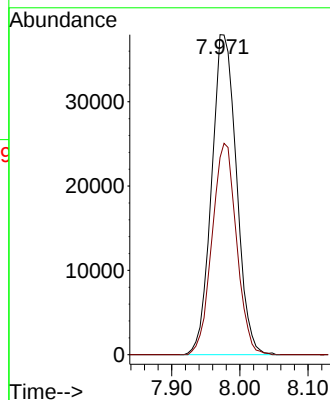
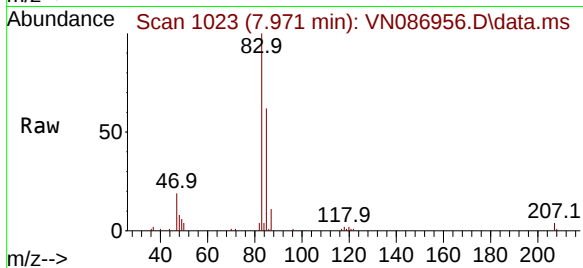
MW-16D-20250604

Tgt Ion: 83 Resp: 96211

Ion Ratio Lower Upper

83 100

85 61.6 52.9 79.3



#31

Cyclohexane

Concen: 0.738 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.035 min

Lab File: VN086956.D

Acq: 11 Jun 2025 18:04

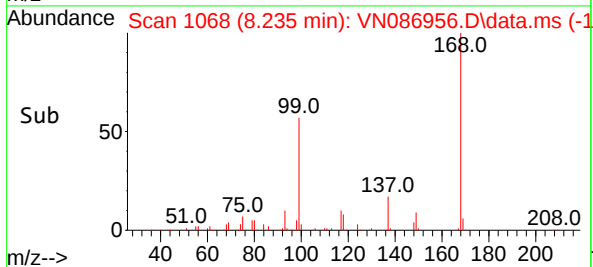
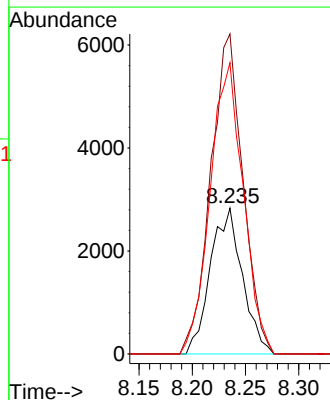
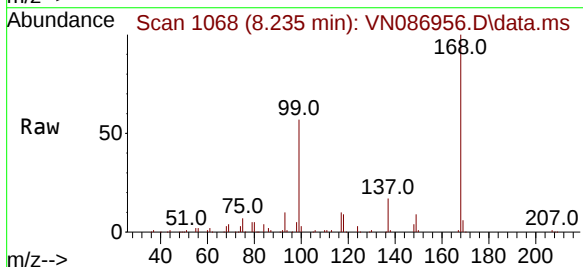
Tgt Ion: 56 Resp: 5916

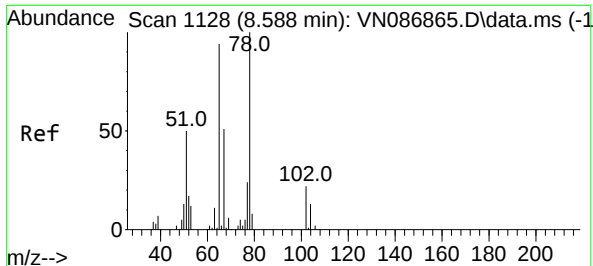
Ion Ratio Lower Upper

56 100

69 219.6 25.4 38.0#

84 199.9 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 46.254 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086956.D

Acq: 11 Jun 2025 18:04

Instrument :

MSVOA\_N

ClientSampleId :

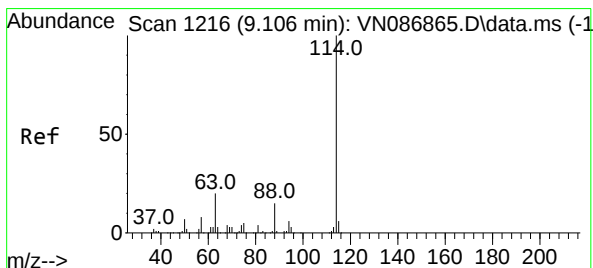
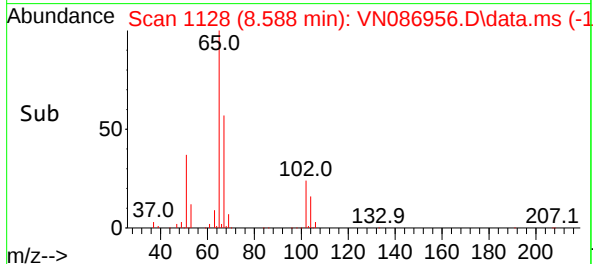
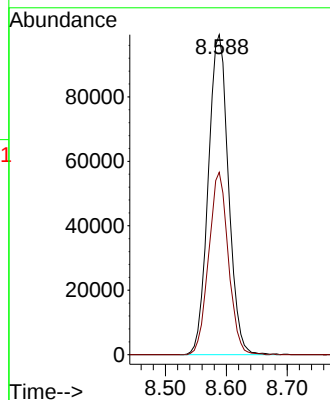
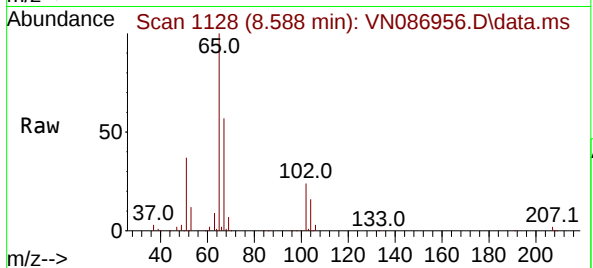
MW-16D-20250604

Tgt Ion: 65 Resp: 228537

Ion Ratio Lower Upper

65 100

67 55.4 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086956.D

Acq: 11 Jun 2025 18:04

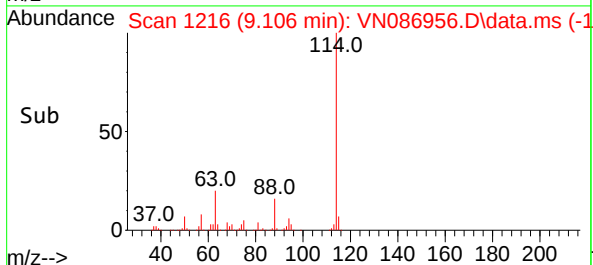
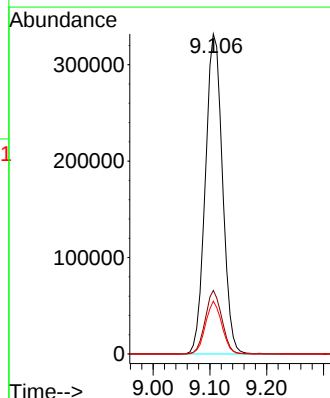
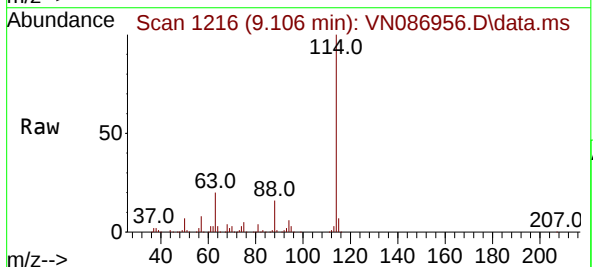
Tgt Ion: 114 Resp: 692660

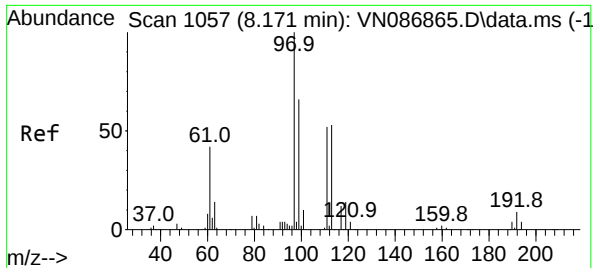
Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.6

88 16.5 0.0 30.2

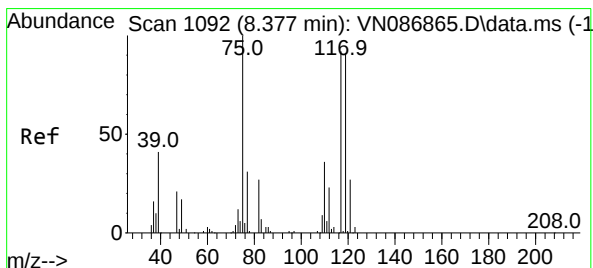
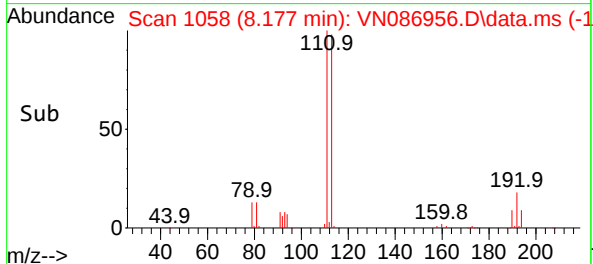
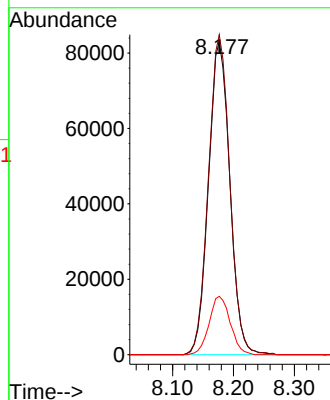
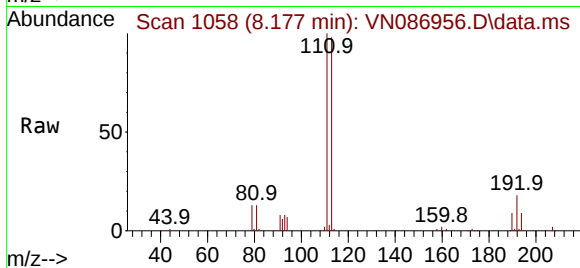




#35  
Dibromofluoromethane  
Concen: 49.206 ug/l  
RT: 8.177 min Scan# 1057  
Delta R.T. 0.006 min  
Lab File: VN086956.D  
Acq: 11 Jun 2025 18:04

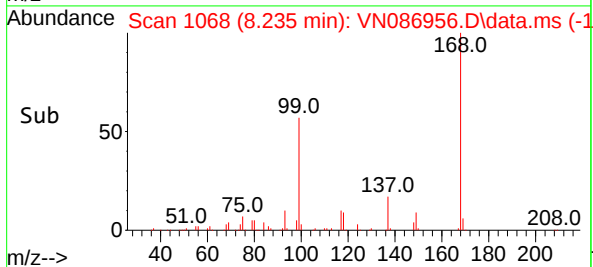
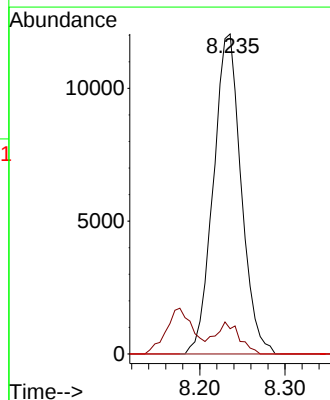
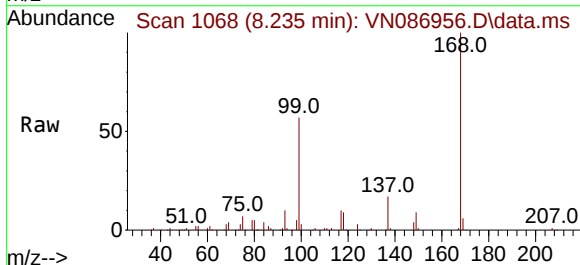
Instrument :  
MSVOA\_N  
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MW-16D-20250604

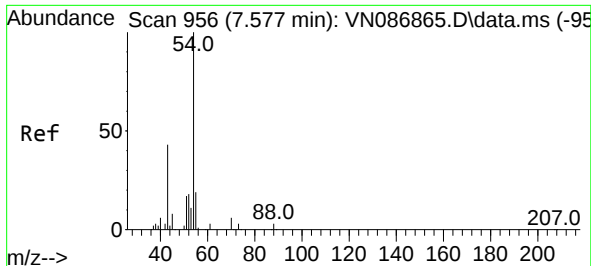
Tgt Ion:113 Resp: 201982  
Ion Ratio Lower Upper  
113 100  
111 102.6 84.2 126.2  
192 18.5 14.2 21.4



#36  
1,1-Dichloropropene  
Concen: 4.459 ug/l  
RT: 8.235 min Scan# 1068  
Delta R.T. -0.141 min  
Lab File: VN086956.D  
Acq: 11 Jun 2025 18:04

Tgt Ion: 75 Resp: 27274  
Ion Ratio Lower Upper  
75 100  
110 8.7 17.6 52.9#  
77 0.0 25.3 37.9#





#37

Ethyl Acetate

Concen: 0.359 ug/l

RT: 7.500 min Scan# 94

Delta R.T. -0.077 min

Lab File: VN086956.D

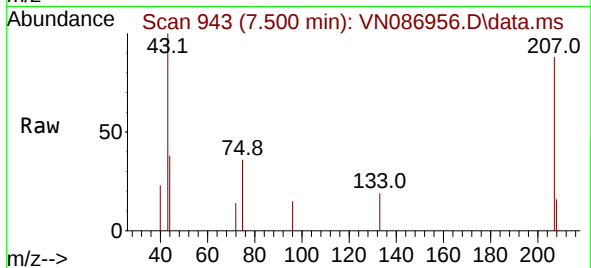
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Instrument :

MSVOA\_N

ClientSampleId :

MW-16D-20250604



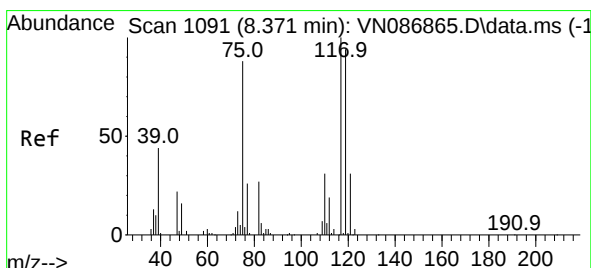
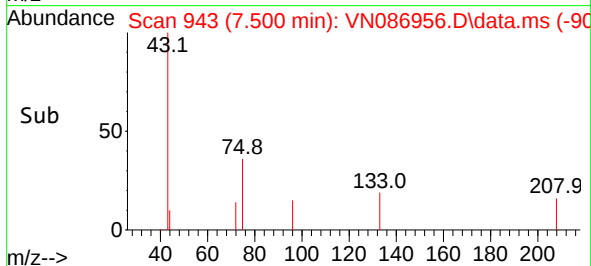
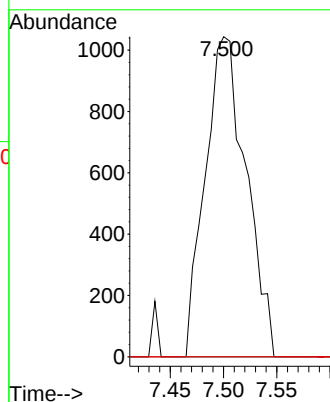
Tgt Ion: 43 Resp: 2792

Ion Ratio Lower Upper

43 100

61 0.0 12.1 18.1#

70 0.0 9.8 14.6#



#38

Carbon Tetrachloride

Concen: 6.027 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.135 min

Lab File: VN086956.D

Acq: 11 Jun 2025 18:04

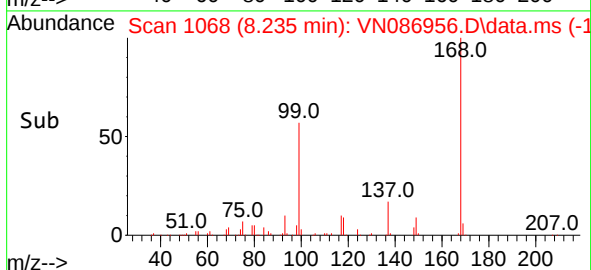
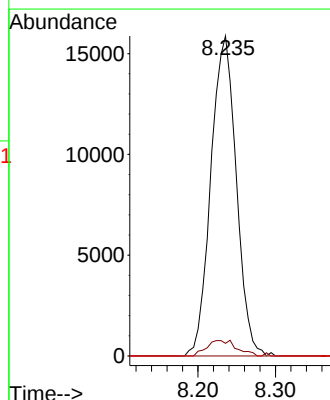
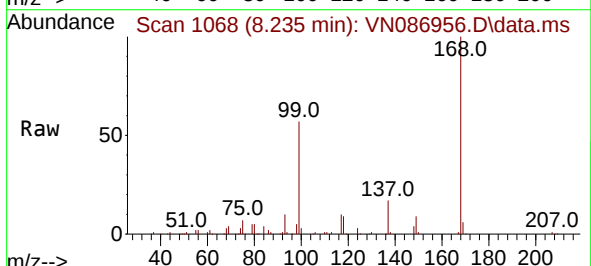
Tgt Ion: 117 Resp: 36191

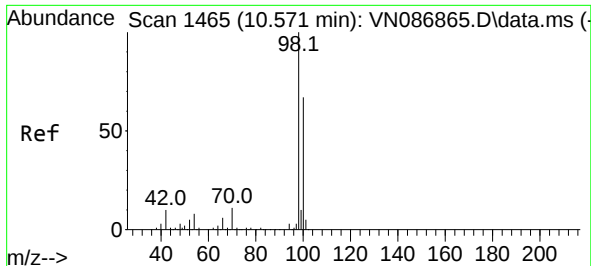
Ion Ratio Lower Upper

117 100

119 4.0 75.0 112.6#

121 0.0 24.9 37.3#

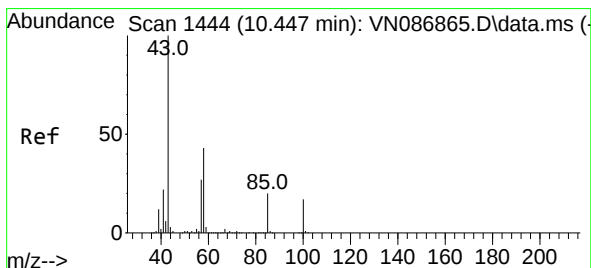
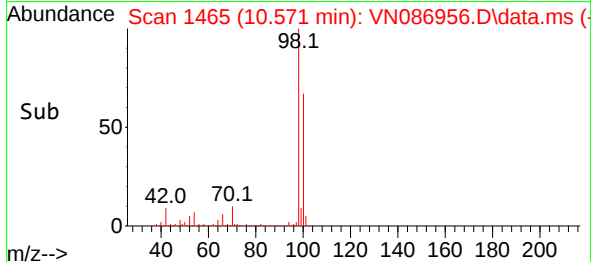
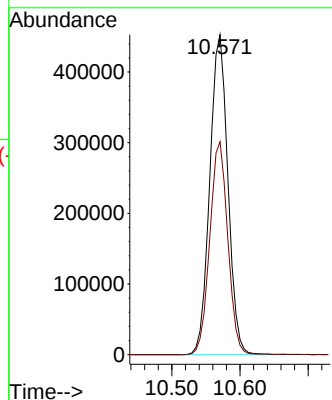
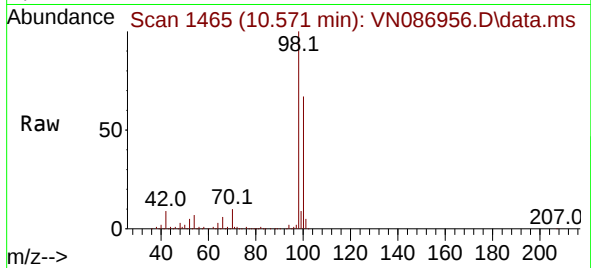




#50  
Toluene-d8  
Concen: 51.511 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: VN086956.D  
Acq: 11 Jun 2025 18:04

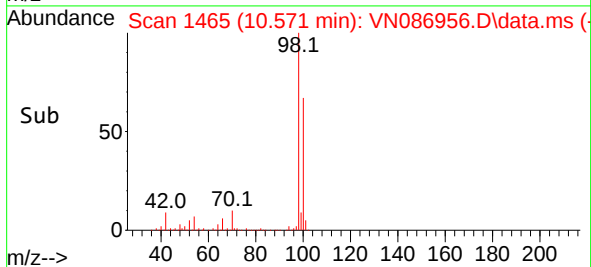
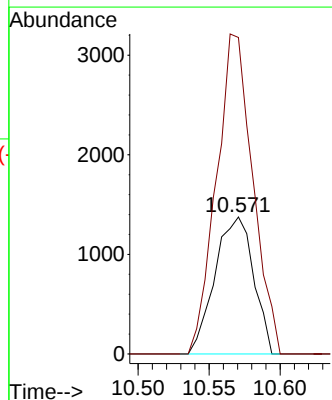
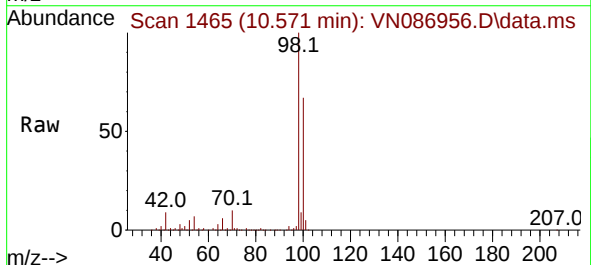
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16D-20250604

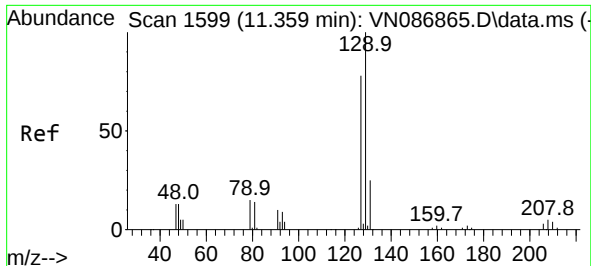
Tgt Ion: 98 Resp: 837063  
Ion Ratio Lower Upper  
98 100  
100 66.4 53.4 80.0



#51  
4-Methyl-2-Pentanone  
Concen: 0.346 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.123 min  
Lab File: VN086956.D  
Acq: 11 Jun 2025 18:04

Tgt Ion: 43 Resp: 2600  
Ion Ratio Lower Upper  
43 100  
58 220.3 34.2 51.4#

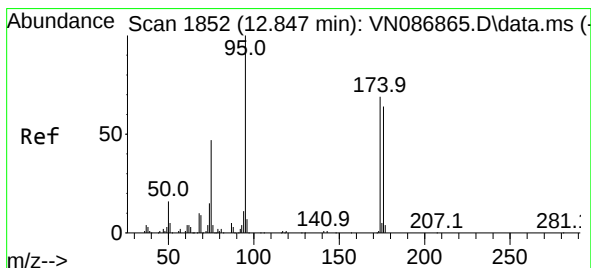
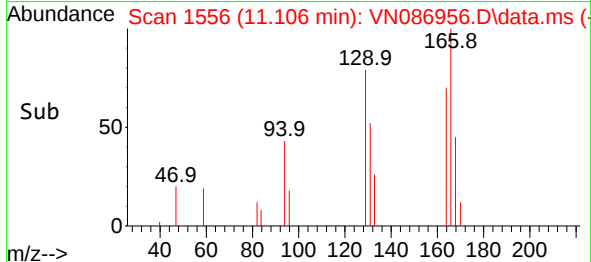
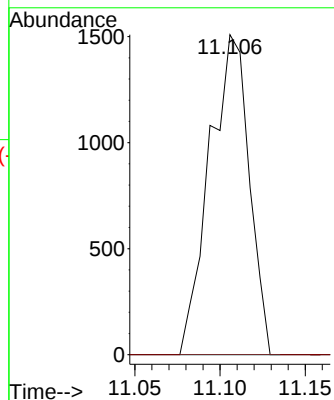
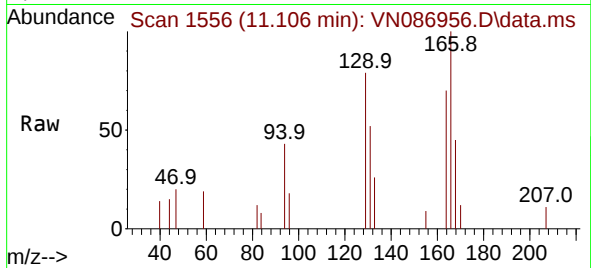




#60  
Dibromochloromethane  
Concen: 0.499 ug/l  
RT: 11.106 min Scan# 11  
Delta R.T. -0.253 min  
Lab File: VN086956.D  
Acq: 11 Jun 2025 18:04

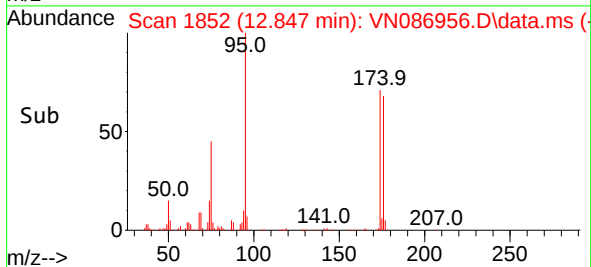
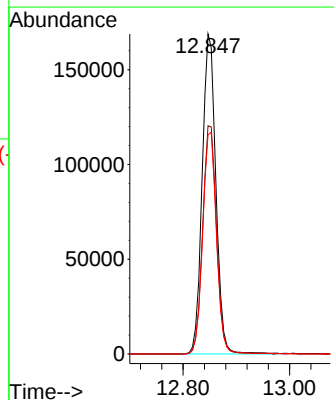
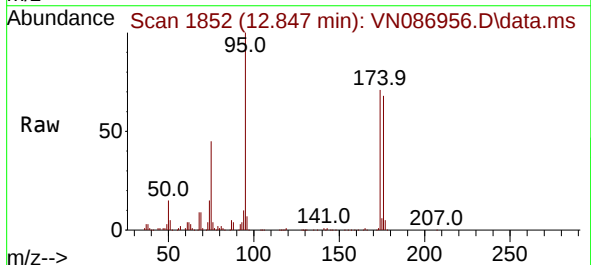
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16D-20250604

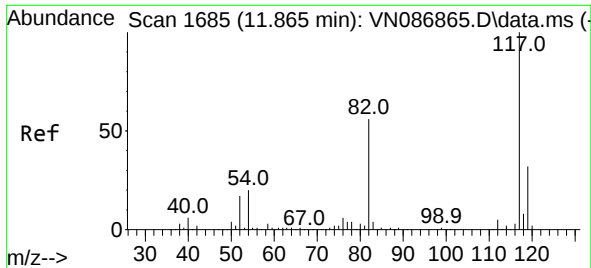
Tgt Ion:129 Resp: 2444  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.6 115.8#



#62  
4-Bromofluorobenzene  
Concen: 49.808 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN086956.D  
Acq: 11 Jun 2025 18:04

Tgt Ion: 95 Resp: 300711  
Ion Ratio Lower Upper  
95 100  
174 72.6 0.0 141.8  
176 69.4 0.0 132.6

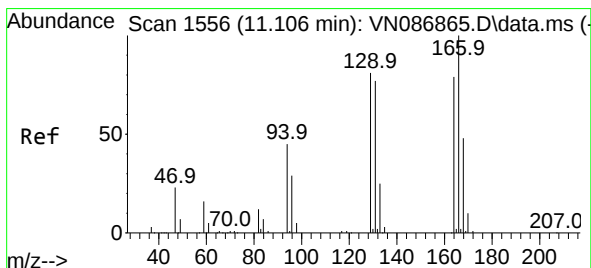
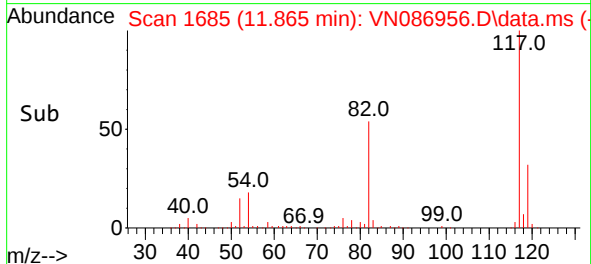
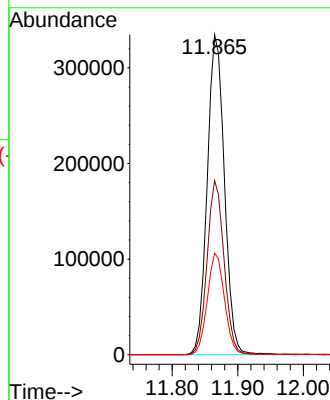
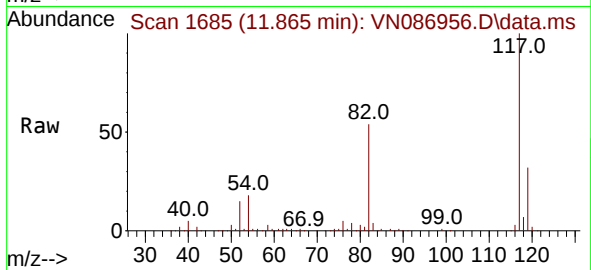




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN086956.D  
Acq: 11 Jun 2025 18:04

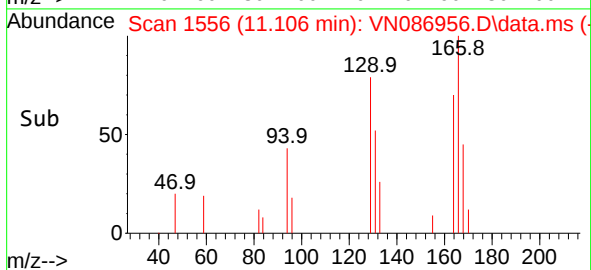
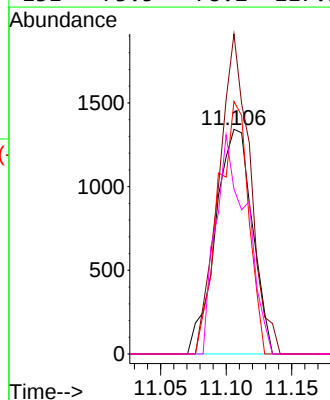
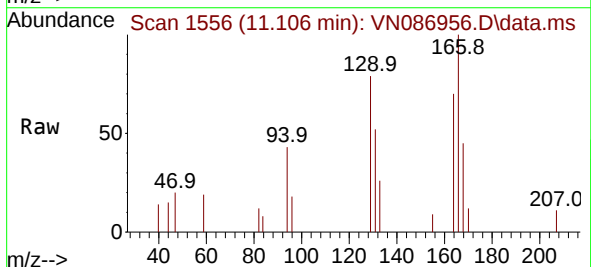
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16D-20250604

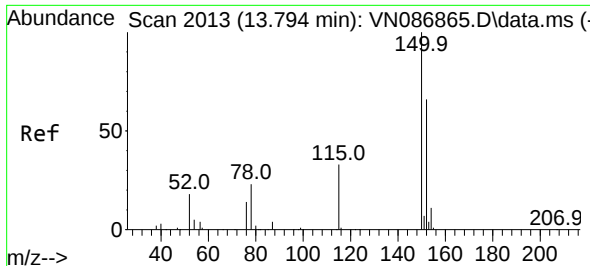
Tgt Ion:117 Resp: 610187  
Ion Ratio Lower Upper  
117 100  
82 54.4 44.6 67.0  
119 31.7 25.5 38.3



#64  
Tetrachloroethene  
Concen: 0.677 ug/l  
RT: 11.106 min Scan# 1556  
Delta R.T. -0.000 min  
Lab File: VN086956.D  
Acq: 11 Jun 2025 18:04

Tgt Ion:164 Resp: 2616  
Ion Ratio Lower Upper  
164 100  
166 142.5 101.8 152.8  
129 112.4 83.0 124.4  
131 73.5 78.2 117.2#

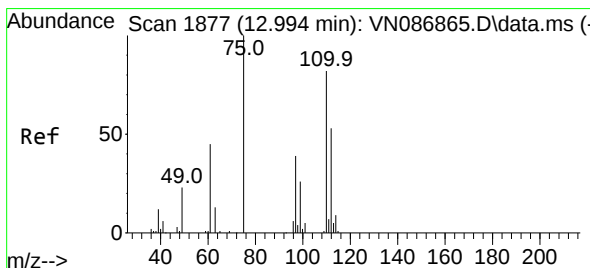
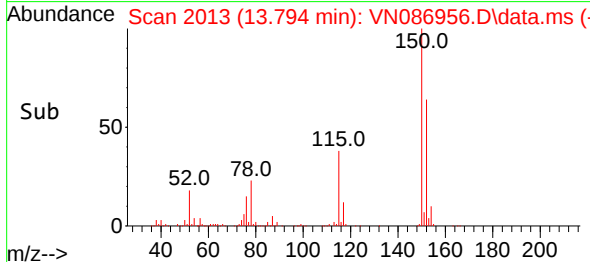
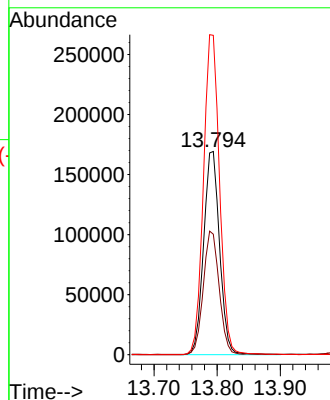
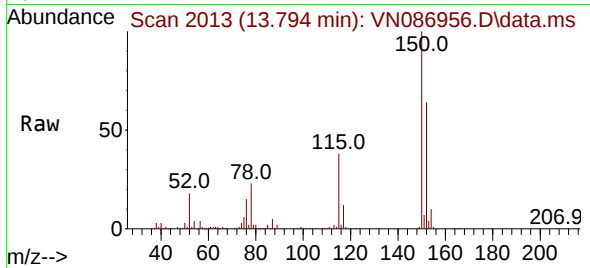




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.794 min Scan# 2013  
 Delta R.T. -0.000 min  
 Lab File: VN086956.D  
 Acq: 11 Jun 2025 18:04

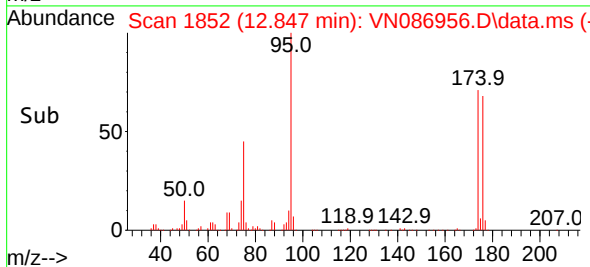
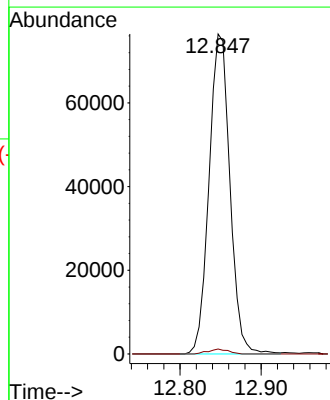
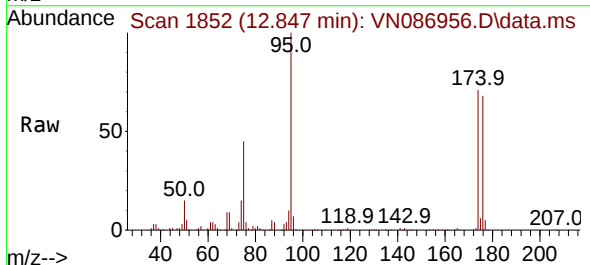
Instrument :  
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 ClientSampleId :  
 MW-16D-20250604

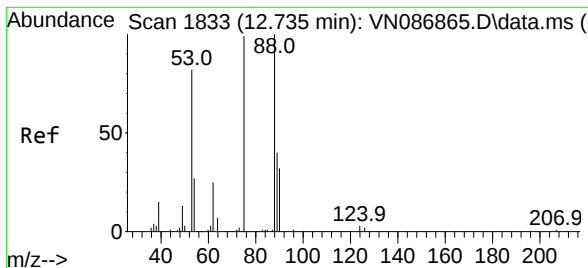
Tgt Ion:152 Resp: 297804  
 Ion Ratio Lower Upper  
 152 100  
 115 60.0 30.1 90.5  
 150 158.5 0.0 345.0



#76  
 1,2,3-Trichloropropane  
 Concen: 19.266 ug/l  
 RT: 12.847 min Scan# 1852  
 Delta R.T. -0.147 min  
 Lab File: VN086956.D  
 Acq: 11 Jun 2025 18:04

Tgt Ion: 75 Resp: 136380  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 79.3 237.9#

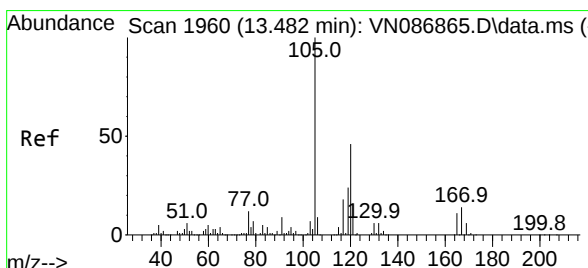
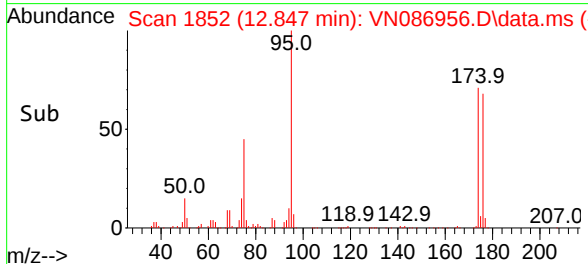
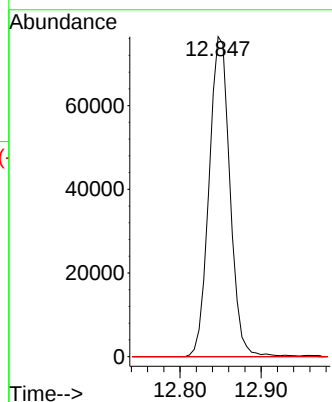
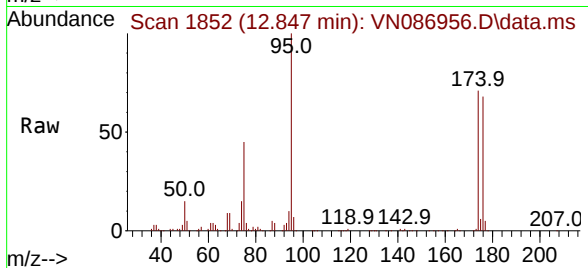




#81  
trans-1,4-Dichloro-2-butene  
Concen: 44.349 ug/l  
RT: 12.847 min Scan# 1833  
Delta R.T. 0.112 min  
Lab File: VN086956.D  
Acq: 11 Jun 2025 18:04

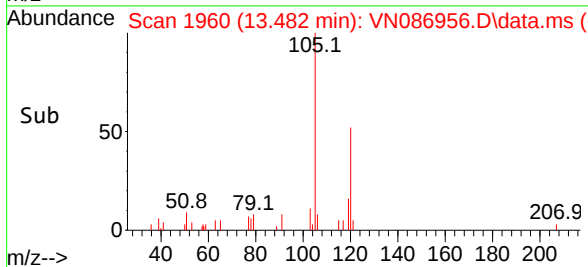
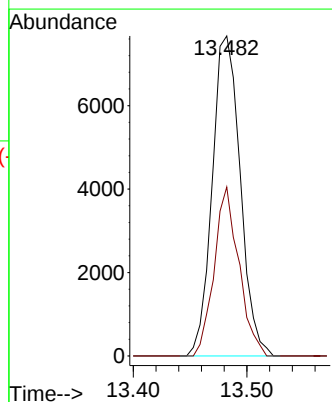
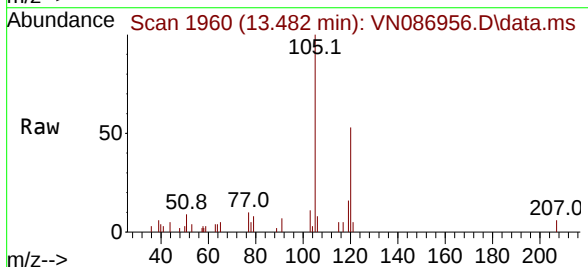
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16D-20250604

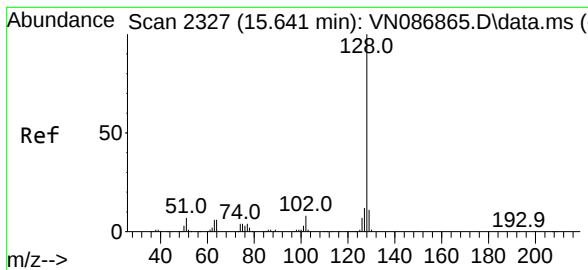
Tgt Ion: 75 Resp: 136380  
Ion Ratio Lower Upper  
75 100  
53 0.0 66.6 99.8#  
89 0.0 36.7 55.1#



#84  
1,2,4-Trimethylbenzene  
Concen: 0.732 ug/l  
RT: 13.482 min Scan# 1960  
Delta R.T. -0.000 min  
Lab File: VN086956.D  
Acq: 11 Jun 2025 18:04

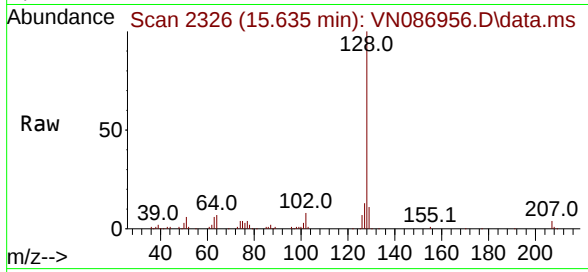
Tgt Ion: 105 Resp: 13139  
Ion Ratio Lower Upper  
105 100  
120 46.6 23.2 69.6





#95  
Naphthalene  
Concen: 5.951 ug/l  
RT: 15.635 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VN086956.D  
Acq: 11 Jun 2025 18:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16D-20250604



Tgt Ion:128 Resp: 133024  
Ion Ratio Lower Upper  
128 100  
127 12.7 10.2 15.2  
129 11.2 8.8 13.2

