

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071124\  
 Data File : VN082876.D  
 Acq On : 11 Jul 2024 15:07  
 Operator : JC\MD  
 Sample : P3220-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

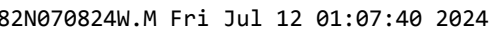
Instrument :  
 MSVOA\_N  
 ClientSampleId :

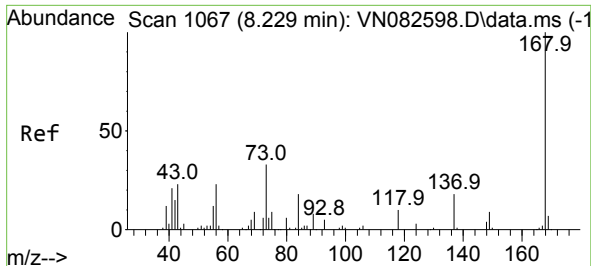
Quant Time: Jul 12 01:07:31 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070824W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 08 13:46:04 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 117640   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 220394   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 211585   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 91429    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.582  | 65    | 85396    | 51.784    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 103.560% |
| 35) Dibromofluoromethane      | 8.171  | 113   | 69049    | 48.825    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 97.660%  |
| 50) Toluene-d8                | 10.570 | 98    | 253142   | 48.463    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 96.920%  |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 88746    | 47.299    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 64 - 133 | Recovery  | =      | 94.600%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 29) Tetrahydrofuran           | 7.841  | 42    | 170      | 0.308     | ug/l # | 38       |
| 30) Chloroform                | 7.971  | 83    | 558      | 0.221     | ug/l # | 72       |
| 31) Cyclohexane               | 8.224  | 56    | 2855     | 1.324     | ug/l # | 40       |
| 36) 1,1-Dichloropropene       | 8.229  | 75    | 10187    | 5.225     | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 12718    | 5.417     | ug/l # | 20       |
| 43) Isopropyl Acetate         | 8.665  | 43    | 4805     | Below Cal | #      | 60       |
| 51) 4-Methyl-2-Pentanone      | 10.576 | 43    | 1257     | 0.639     | ug/l # | 1        |
| 71) Bromoform                 | 12.847 | 173   | 543      | 0.428     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 49606    | 31.470    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 49606    | 61.893    | ug/l # | 6        |
| -----                         |        |       |          |           |        |          |

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

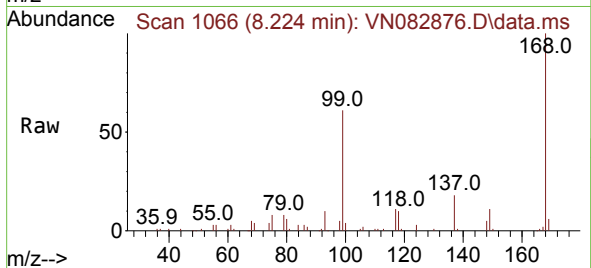
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070824W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 08 13:46:04 2024  
Response via : Initial Calibration



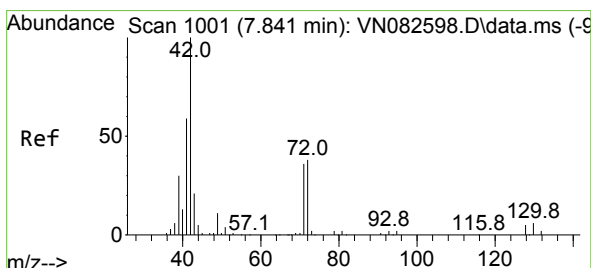
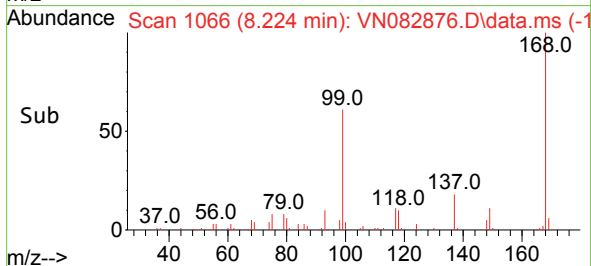
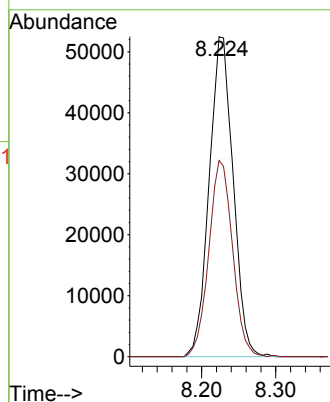


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.005 min  
Lab File: VN082876.D  
Acq: 11 Jul 2024 15:07

Instrument :  
MSVOA\_N  
ClientSampleId :

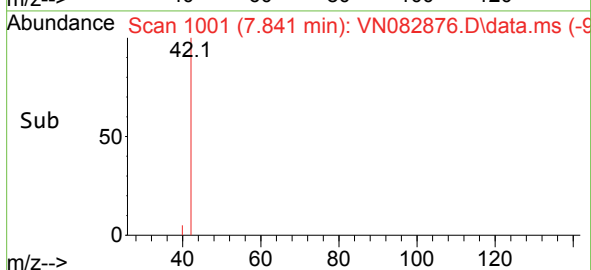
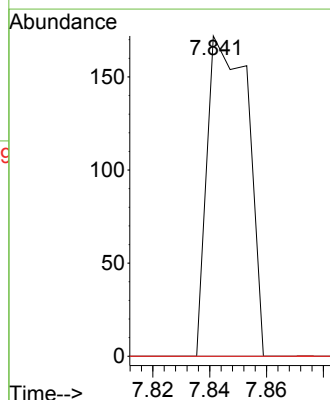
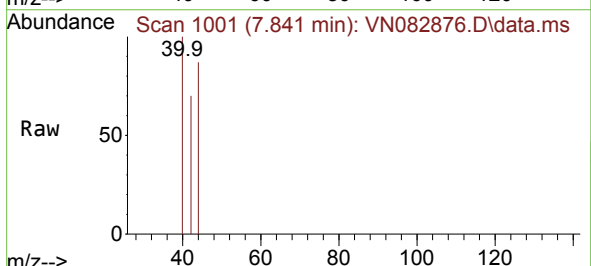


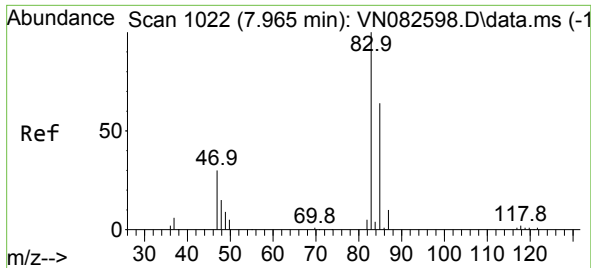
Tgt Ion:168 Resp: 117640  
Ion Ratio Lower Upper  
168 100  
99 61.3 48.2 72.4



#29  
Tetrahydrofuran  
Concen: 0.308 ug/l  
RT: 7.841 min Scan# 1001  
Delta R.T. 0.000 min  
Lab File: VN082876.D  
Acq: 11 Jul 2024 15:07

Tgt Ion: 42 Resp: 170  
Ion Ratio Lower Upper  
42 100  
72 0.0 30.0 45.0#  
71 0.0 28.3 42.5#

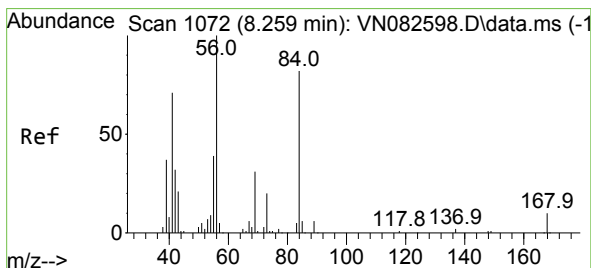
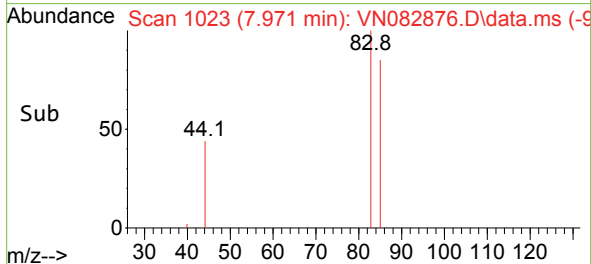
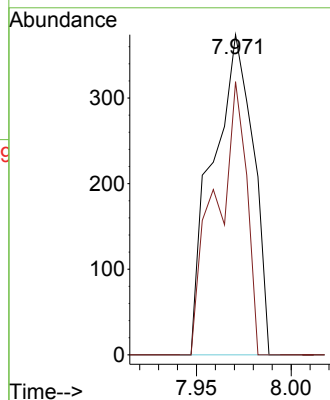
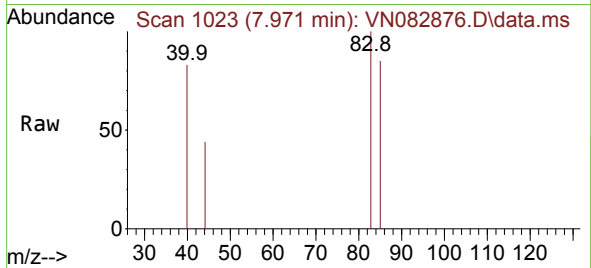




#30  
Chloroform  
Concen: 0.221 ug/l  
RT: 7.971 min Scan# 1022  
Delta R.T. 0.006 min  
Lab File: VN082876.D  
Acq: 11 Jul 2024 15:07

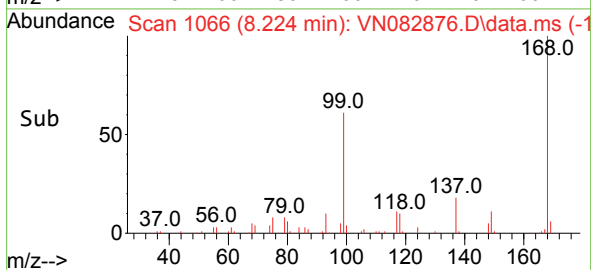
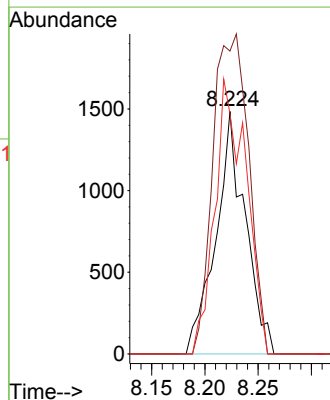
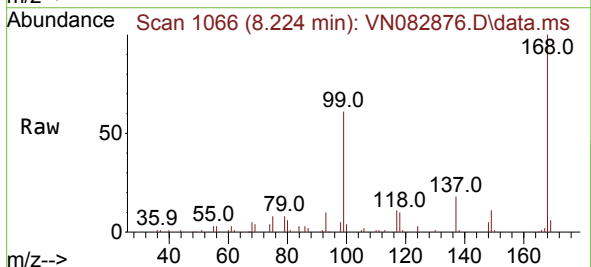
Instrument :  
MSVOA\_N  
ClientSampleId :

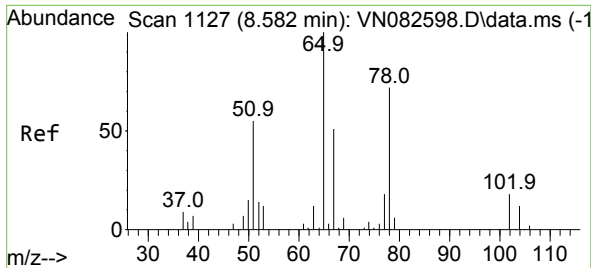
Tgt Ion: 83 Resp: 558  
Ion Ratio Lower Upper  
83 100  
85 85.3 50.9 76.3#



#31  
Cyclohexane  
Concen: 1.324 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.035 min  
Lab File: VN082876.D  
Acq: 11 Jul 2024 15:07

Tgt Ion: 56 Resp: 2855  
Ion Ratio Lower Upper  
56 100  
69 124.8 24.5 36.7#  
84 99.1 66.0 99.0#

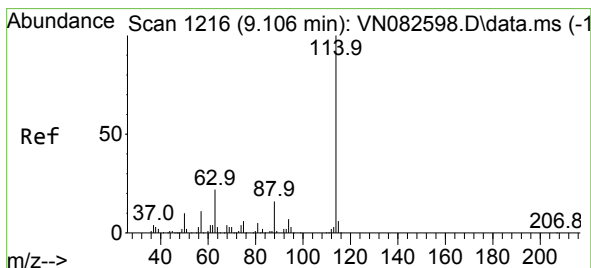
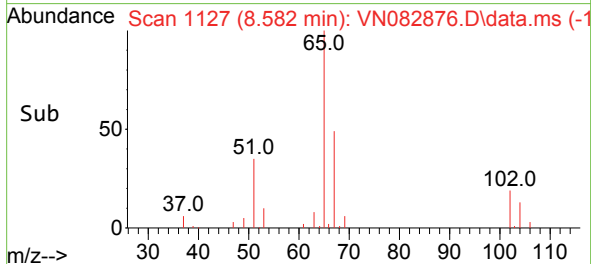
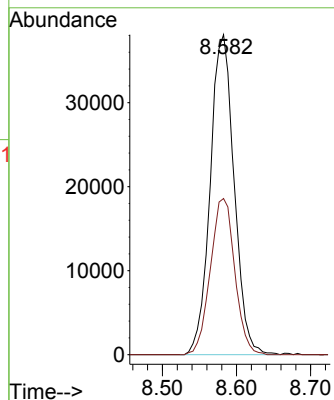
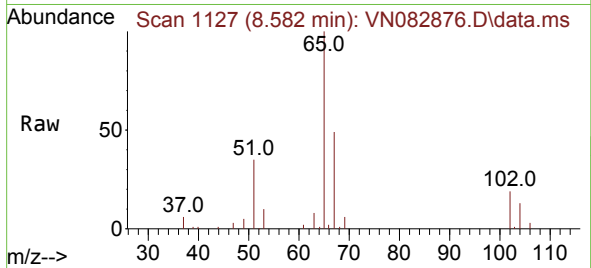




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.784 ug/l  
 RT: 8.582 min Scan# 1127  
 Delta R.T. 0.000 min  
 Lab File: VN082876.D  
 Acq: 11 Jul 2024 15:07

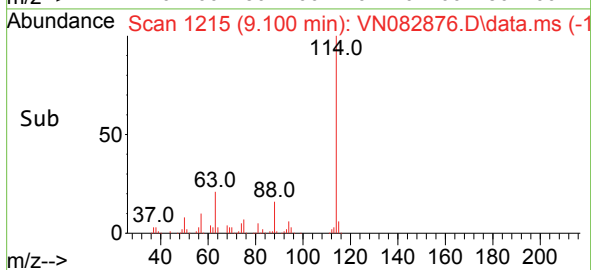
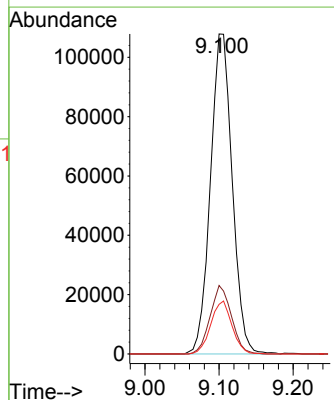
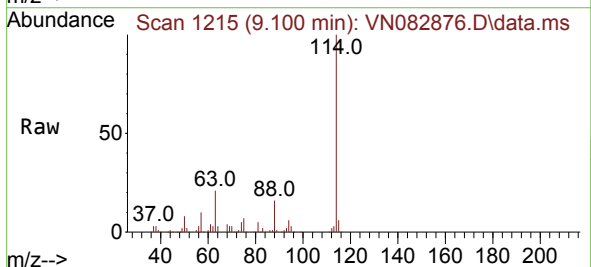
Instrument :  
 MSVOA\_N  
 ClientSampleId :

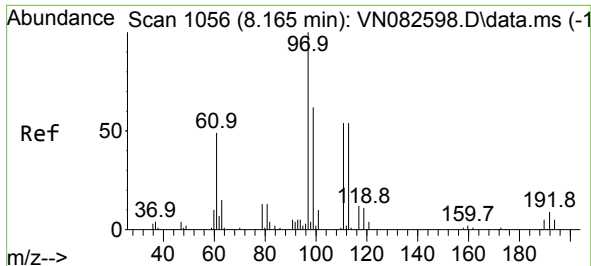
Tgt Ion: 65 Resp: 85396  
 Ion Ratio Lower Upper  
 65 100  
 67 49.8 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 9.100 min Scan# 1215  
 Delta R.T. -0.006 min  
 Lab File: VN082876.D  
 Acq: 11 Jul 2024 15:07

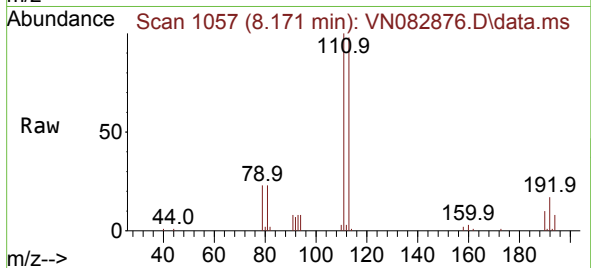
Tgt Ion: 114 Resp: 220394  
 Ion Ratio Lower Upper  
 114 100  
 63 21.4 0.0 44.6  
 88 15.5 0.0 31.4



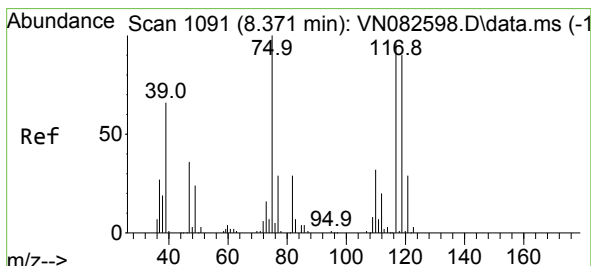
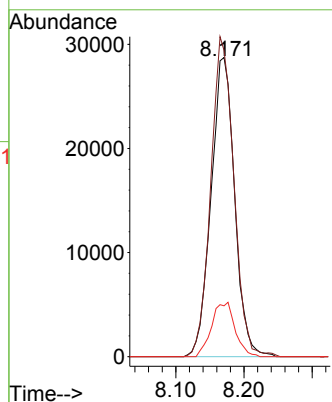
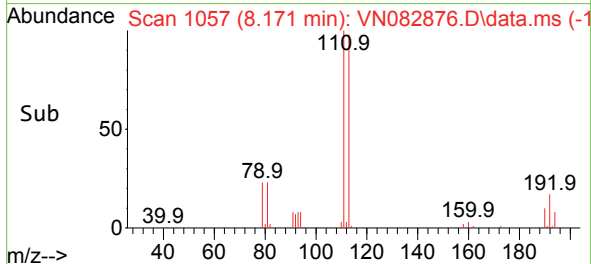


#35  
Dibromofluoromethane  
Concen: 48.825 ug/l  
RT: 8.171 min Scan# 1056  
Delta R.T. 0.006 min  
Lab File: VN082876.D  
Acq: 11 Jul 2024 15:07

Instrument :  
MSVOA\_N  
ClientSampleId :

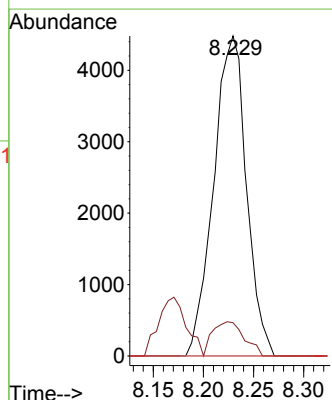
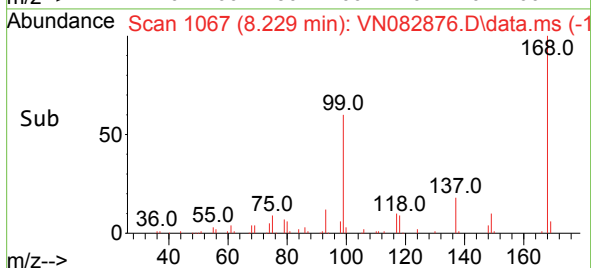
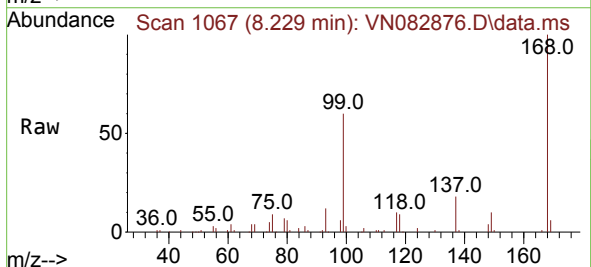


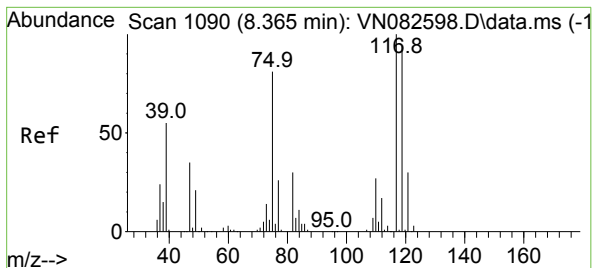
Tgt Ion:113 Resp: 69049  
Ion Ratio Lower Upper  
113 100  
111 104.8 82.4 123.6  
192 18.1 14.9 22.3



#36  
1,1-Dichloropropene  
Concen: 5.225 ug/l  
RT: 8.229 min Scan# 1067  
Delta R.T. -0.142 min  
Lab File: VN082876.D  
Acq: 11 Jul 2024 15:07

Tgt Ion: 75 Resp: 10187  
Ion Ratio Lower Upper  
75 100  
110 10.4 16.3 48.9#  
77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 5.417 ug/l

RT: 8.224 min Scan# 1106

Delta R.T. -0.141 min

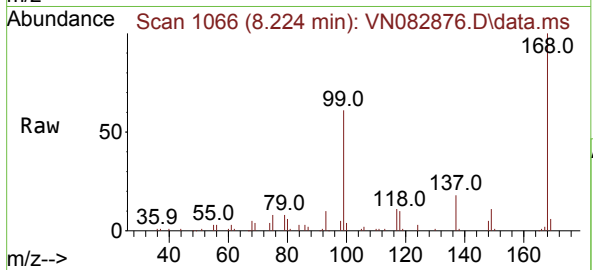
Lab File: VN082876.D

Acq: 11 Jul 2024 15:07

Instrument :

MSVOA\_N

ClientSampleId :



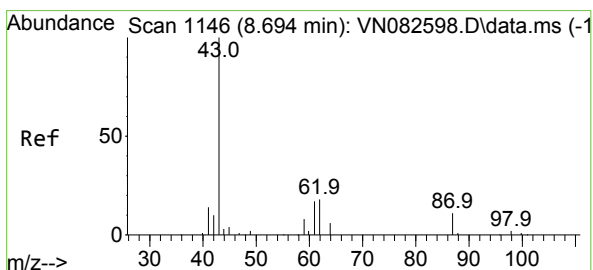
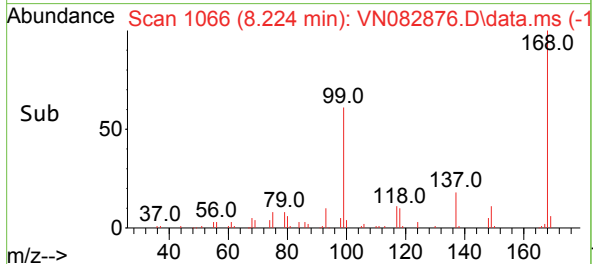
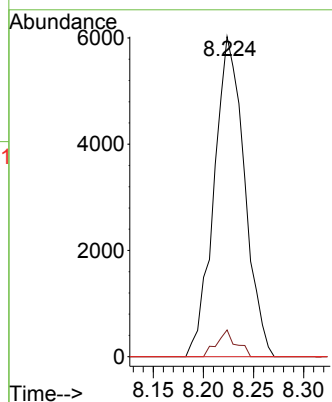
Tgt Ion:117 Resp: 12718

Ion Ratio Lower Upper

117 100

119 8.4 74.9 112.3#

121 0.0 24.3 36.5#



#43

Isopropyl Acetate

Concen: Below Cal

RT: 8.665 min Scan# 1141

Delta R.T. -0.029 min

Lab File: VN082876.D

Acq: 11 Jul 2024 15:07

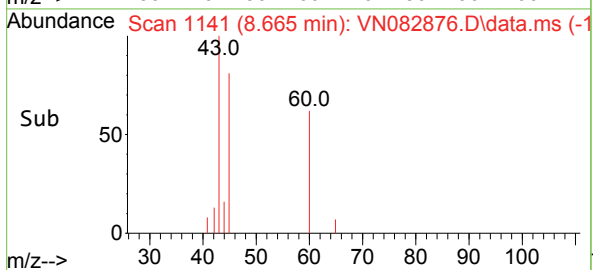
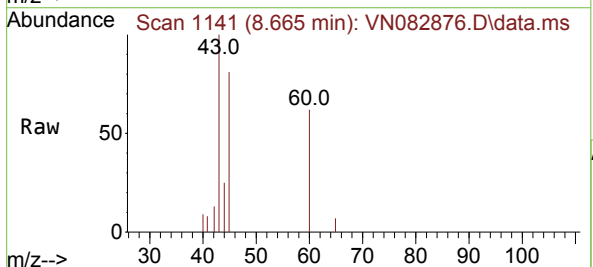
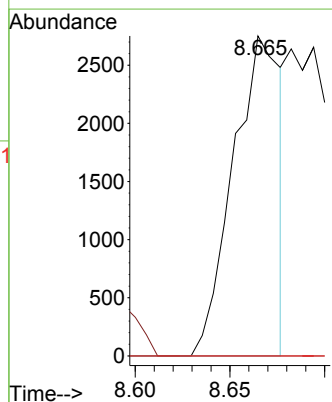
Tgt Ion: 43 Resp: 4805

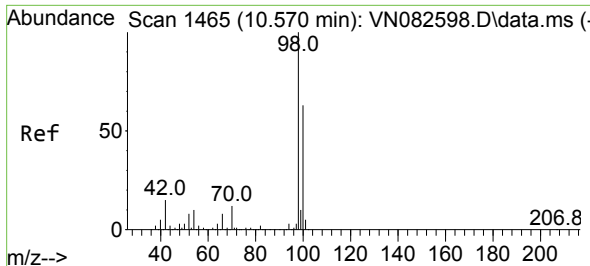
Ion Ratio Lower Upper

43 100

61 0.0 17.8 26.6#

87 0.0 8.2 12.2#

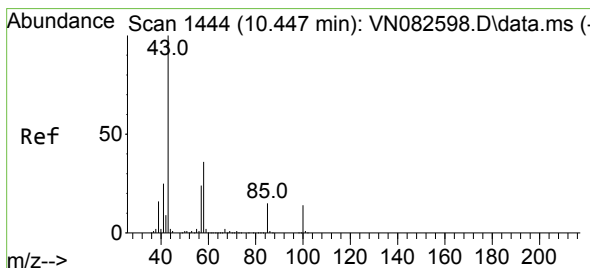
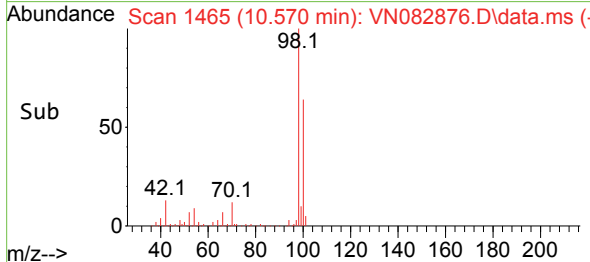
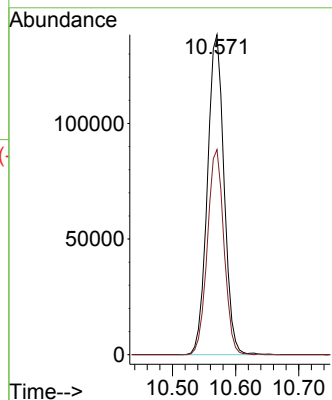
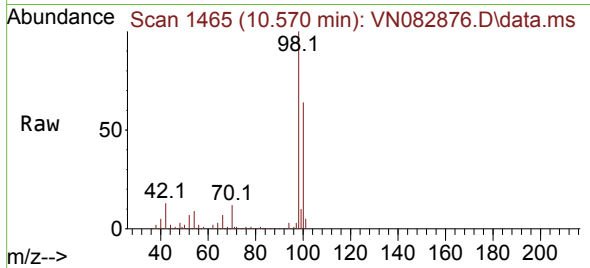




#50  
Toluene-d8  
Concen: 48.463 ug/l  
RT: 10.570 min Scan# 1465  
Delta R.T. 0.000 min  
Lab File: VN082876.D  
Acq: 11 Jul 2024 15:07

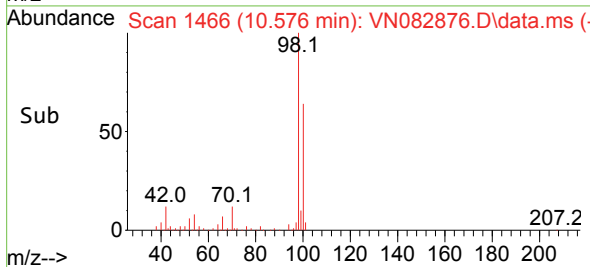
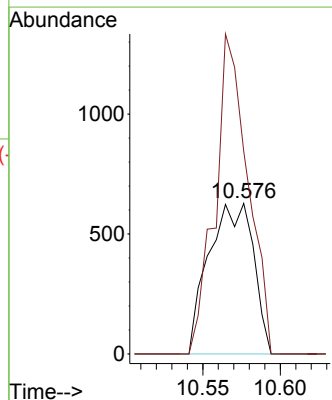
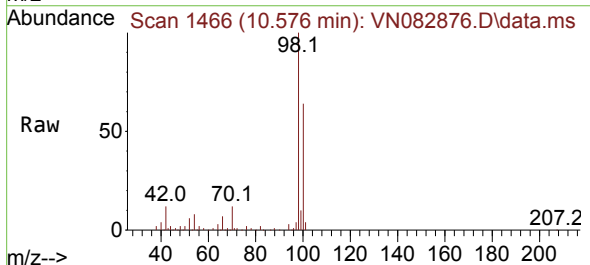
Instrument :  
MSVOA\_N  
ClientSampleId :

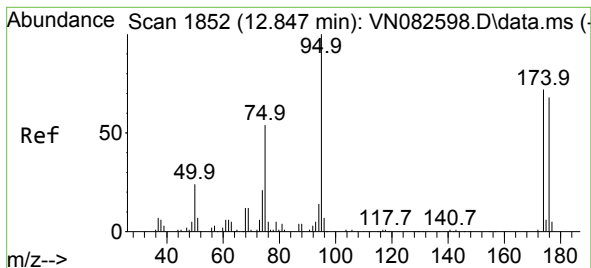
Tgt Ion: 98 Resp: 253142  
Ion Ratio Lower Upper  
98 100  
100 63.6 51.5 77.3



#51  
4-Methyl-2-Pentanone  
Concen: 0.639 ug/l  
RT: 10.576 min Scan# 1466  
Delta R.T. 0.129 min  
Lab File: VN082876.D  
Acq: 11 Jul 2024 15:07

Tgt Ion: 43 Resp: 1257  
Ion Ratio Lower Upper  
43 100  
58 155.9 28.2 42.4#

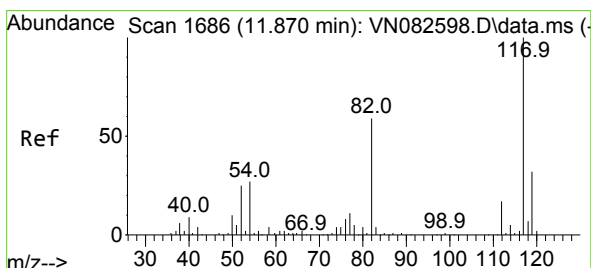
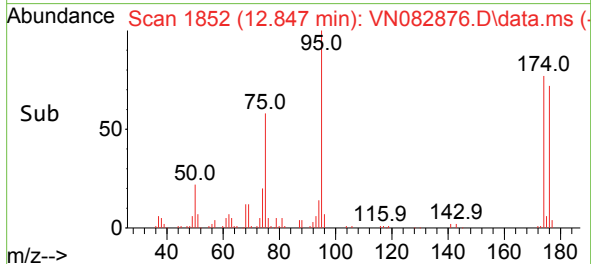
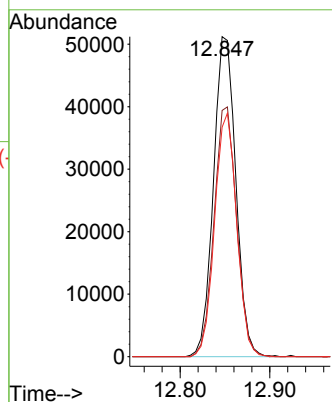
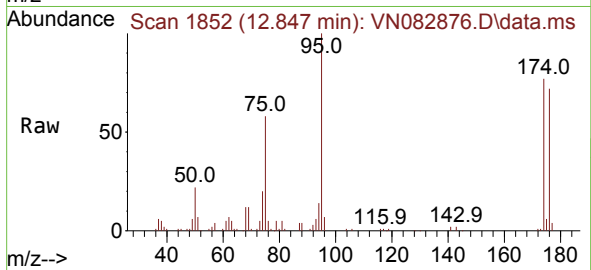




#62  
4-Bromofluorobenzene  
Concen: 47.299 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN082876.D  
Acq: 11 Jul 2024 15:07

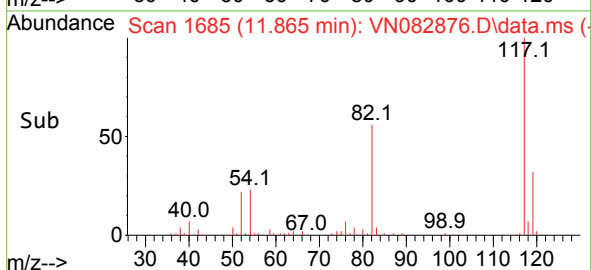
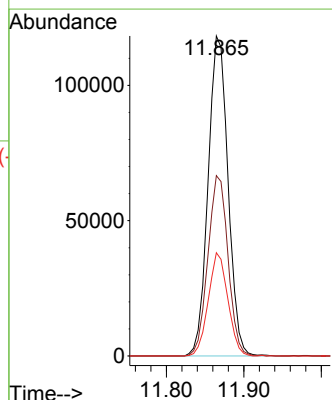
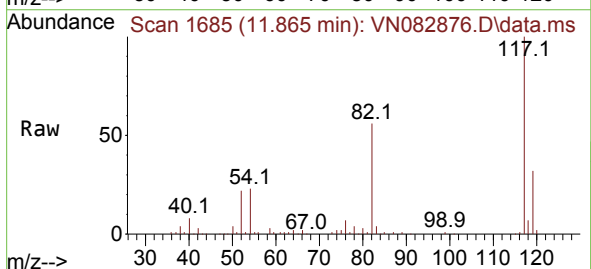
Instrument :  
MSVOA\_N  
ClientSampleId :

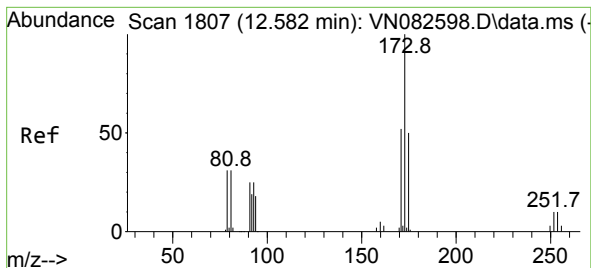
Tgt Ion: 95 Resp: 88746  
Ion Ratio Lower Upper  
95 100  
174 78.6 0.0 159.2  
176 74.8 0.0 147.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.005 min  
Lab File: VN082876.D  
Acq: 11 Jul 2024 15:07

Tgt Ion: 117 Resp: 211585  
Ion Ratio Lower Upper  
117 100  
82 56.4 47.5 71.3  
119 32.3 25.6 38.4





#71

Bromoform

Concen: 0.428 ug/l

RT: 12.847 min Scan# 1807

Delta R.T. 0.265 min

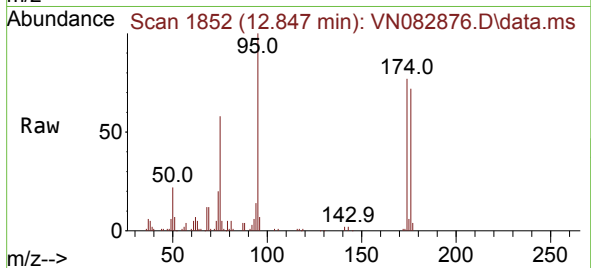
Lab File: VN082876.D

Acq: 11 Jul 2024 15:07

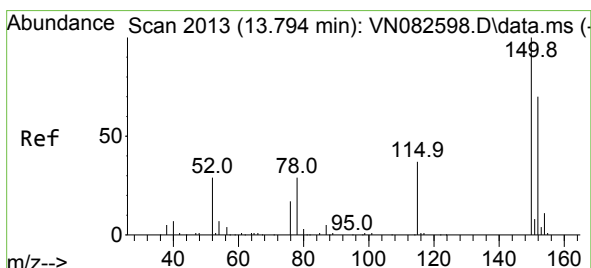
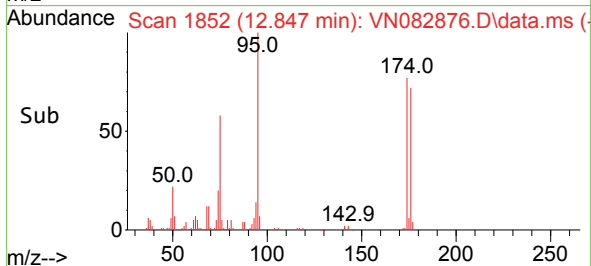
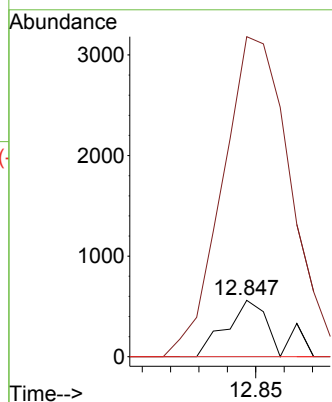
Instrument :

MSVOA\_N

ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 173   | Resp: | 543   |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 829.1 | 24.0  | 72.0# |
| 254       | 0.0   | 0.0   | 0.0   |



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

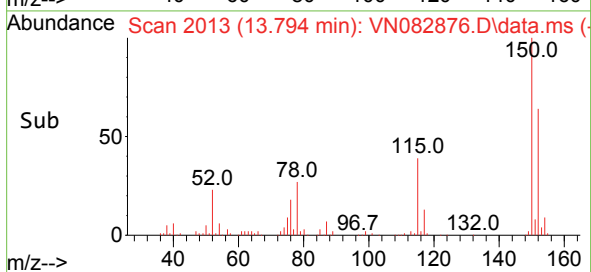
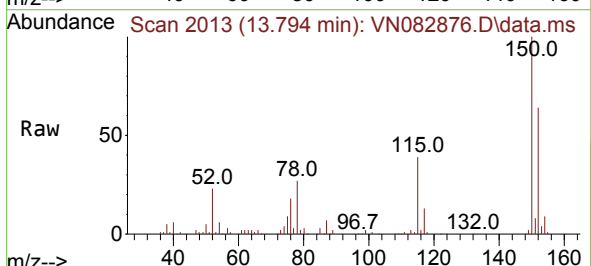
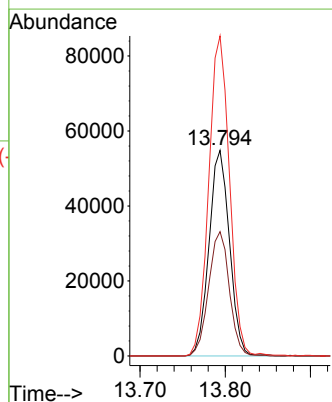
RT: 13.794 min Scan# 2013

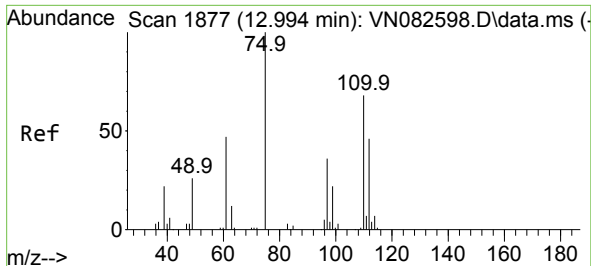
Delta R.T. -0.000 min

Lab File: VN082876.D

Acq: 11 Jul 2024 15:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 91429 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 115       | 61.3  | 30.6  | 91.6  |
| 150       | 157.5 | 0.0   | 348.6 |

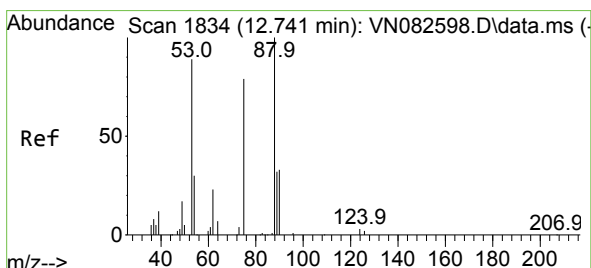
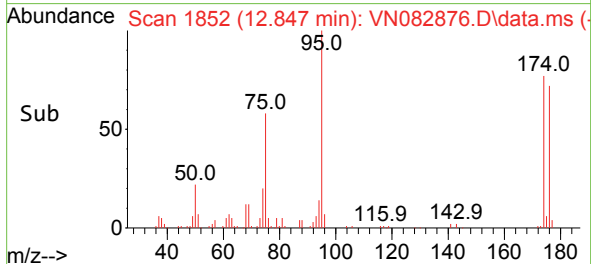
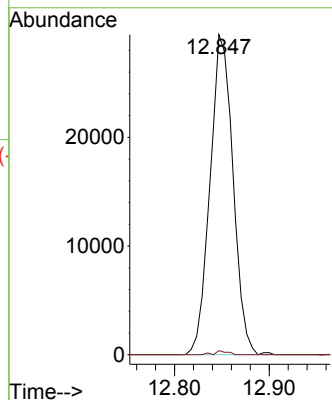
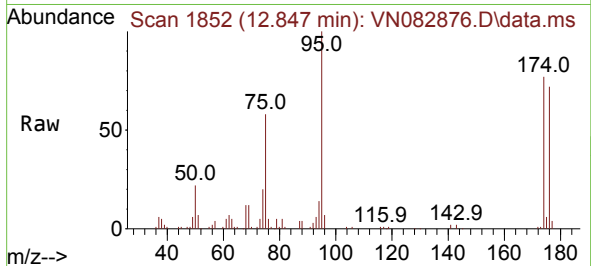




#76  
1,2,3-Trichloropropane  
Concen: 31.470 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN082876.D  
Acq: 11 Jul 2024 15:07

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 75 Resp: 49606  
Ion Ratio Lower Upper  
75 100  
77 0.7 110.9 332.6#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 61.893 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.106 min  
Lab File: VN082876.D  
Acq: 11 Jul 2024 15:07

Tgt Ion: 75 Resp: 49606  
Ion Ratio Lower Upper  
75 100  
53 0.0 88.4 132.6#  
89 0.0 36.3 54.5#

