

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112023\  
 Data File : VN080217.D  
 Acq On : 20 Nov 2023 18:57  
 Operator : JC\MD  
 Sample : 05468-12  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

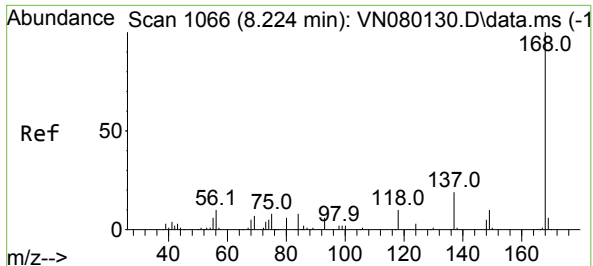
Quant Time: Nov 21 01:10:08 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 17 01:19:32 2023  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 138202              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100          | 114  | 261554              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 293178              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 125893              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.583          | 65   | 131610              | 57.675    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 115.340% |           |        |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 98431               | 51.003    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 102.000% |           |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 361105              | 51.905    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 103.820% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 141863              | 53.986    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 107.980% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           | Qvalue |          |
| 6) Chloroethane               | 3.124          | 64   | 438                 | Below Cal | #      | 43       |
| 14) Allyl chloride            | 5.265          | 41   | 610                 | 0.332     | ug/l # | 19       |
| 16) Acetone                   | 4.430          | 43   | 14768               | 19.268    | ug/l   | 94       |
| 18) Methyl Acetate            | 5.036          | 43   | 3322                | 1.349     | ug/l # | 66       |
| 20) Methylene Chloride        | 5.277          | 84   | 56523               | 35.216    | ug/l   | 91       |
| 25) 2-Butanone                | 7.500          | 43   | 804                 | 0.883     | ug/l # | 37       |
| 31) Cyclohexane               | 8.224          | 56   | 3168                | 1.277     | ug/l # | 20       |
| 36) 1,1-Dichloropropene       | 8.224          | 75   | 11350               | 4.062     | ug/l # | 51       |
| 37) Ethyl Acetate             | 7.559          | 43   | 2031                | 1.048     | ug/l # | 78       |
| 38) Carbon Tetrachloride      | 8.224          | 117  | 15619               | 4.405     | ug/l # | 15       |
| 43) Isopropyl Acetate         | 8.688          | 43   | 101693              | 26.963    | ug/l # | 82       |
| 45) 1,2-Dichloropropane       | 9.747          | 63   | 1082                | 0.586     | ug/l # | 45       |
| 48) Methyl methacrylate       | 9.741          | 41   | 83828               | 43.130    | ug/l # | 30       |
| 51) 4-Methyl-2-Pentanone      | 10.447         | 43   | 6144                | 3.147     | ug/l # | 68       |
| 53) t-1,3-Dichloropropene     | 10.724         | 75   | 644                 | 0.204     | ug/l # | 1        |
| 54) cis-1,3-Dichloropropene   | 10.359         | 75   | 37639               | 11.669    | ug/l # | 69       |
| 56) Ethyl methacrylate        | 10.988         | 69   | 1387                | 0.716     | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 11.206         | 76   | 5136                | 1.551     | ug/l # | 42       |
| 59) 2-Hexanone                | 11.200         | 43   | 58396               | 37.218    | ug/l # | 46       |
| 71) Bromoform                 | 12.847         | 173  | 525                 | 0.275     | ug/l # | 1        |
| 74) N-amyl acetate            | 12.306         | 43   | 15828               | 5.188     | ug/l # | 46       |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 83647               | 27.118    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 83647               | 91.619    | ug/l # | 15       |
| -----                         |                |      |                     |           |        |          |

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

Quant Time: Nov 21 01:10:08 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N111623W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 17 01:19:32 2023  
Response via : Initial Calibration

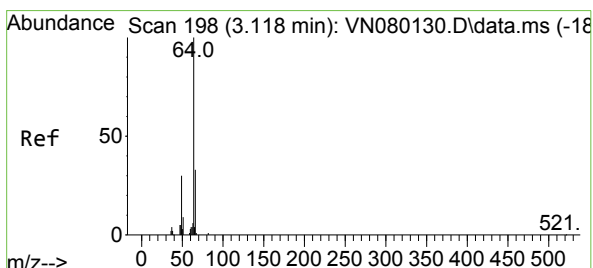
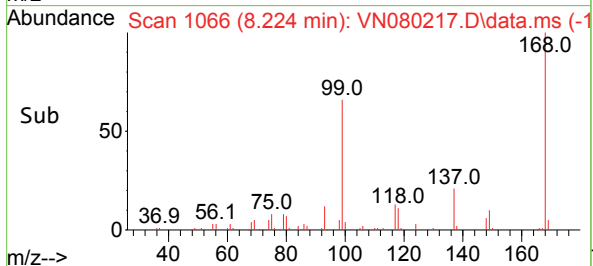
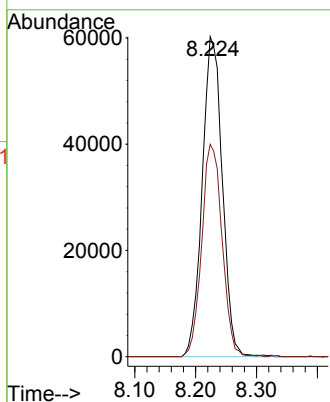
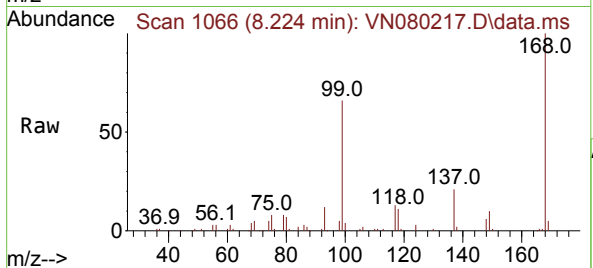




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

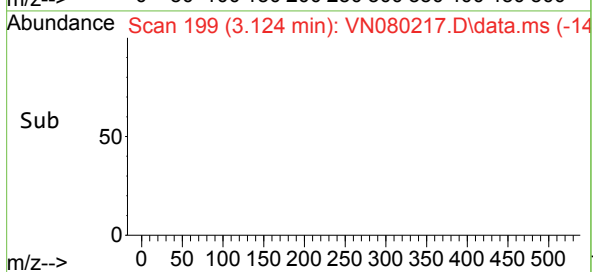
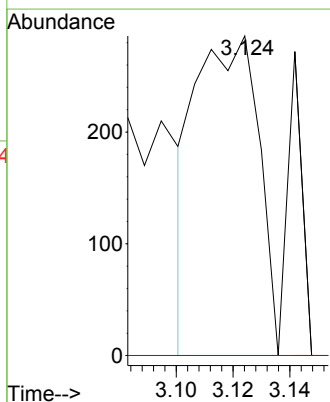
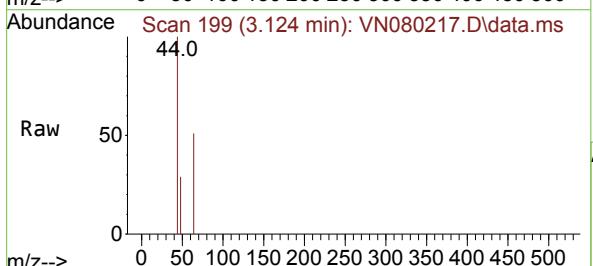
Instrument :  
MSVOA\_N  
ClientSampleId :

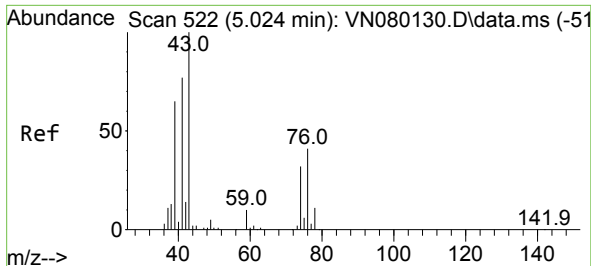
Tgt Ion:168 Resp: 138202  
Ion Ratio Lower Upper  
168 100  
99 66.4 53.0 79.6



#6  
Chloroethane  
Concen: Below Cal  
RT: 3.124 min Scan# 199  
Delta R.T. 0.006 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

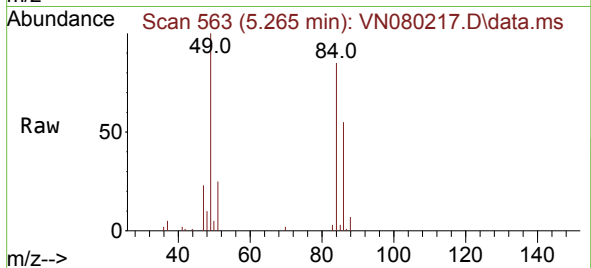
Tgt Ion: 64 Resp: 438  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.2#



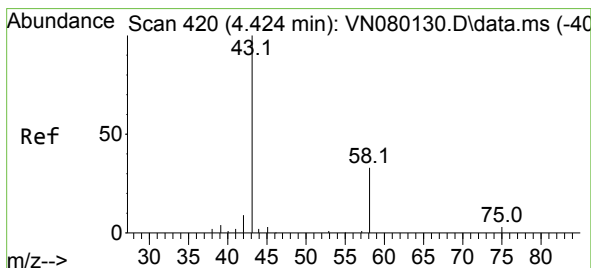
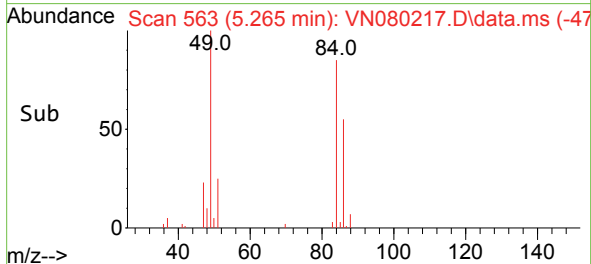
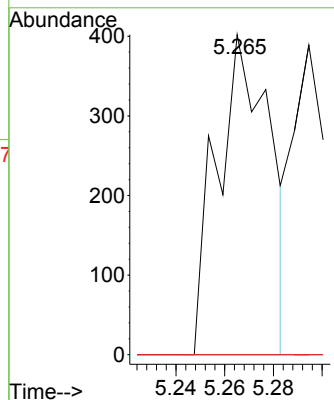


#14  
 Allyl chloride  
 Concen: 0.332 ug/l  
 RT: 5.265 min Scan# 51  
 Delta R.T. 0.241 min  
 Lab File: VN080217.D  
 Acq: 20 Nov 2023 18:57

Instrument :  
 MSVOA\_N  
 ClientSampleId :

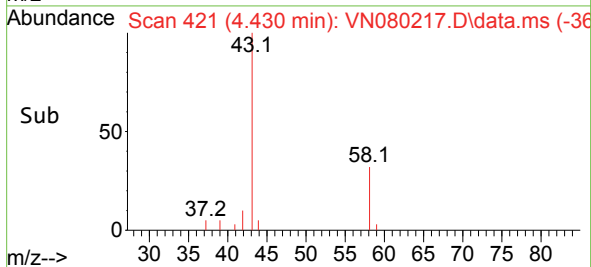
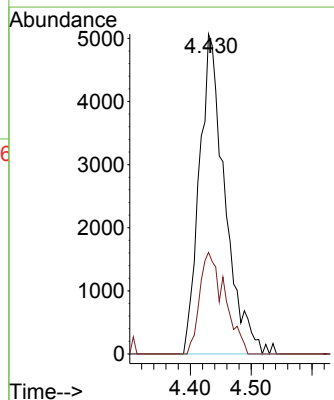
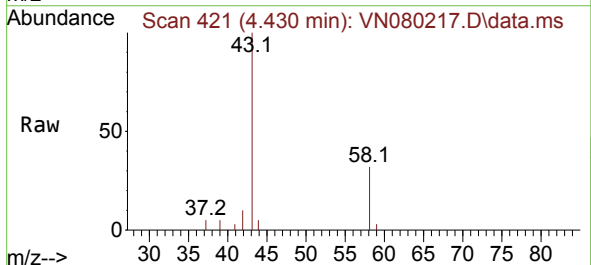


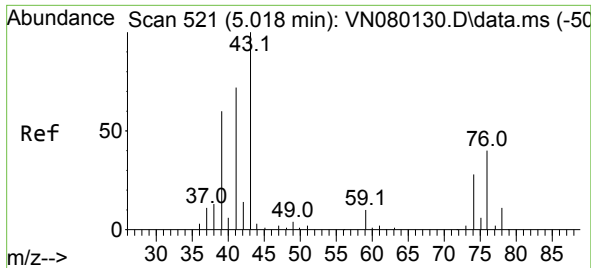
Tgt Ion: 41 Resp: 610  
 Ion Ratio Lower Upper  
 41 100  
 39 0.0 58.8 88.2#  
 76 0.0 39.1 58.7#



#16  
 Acetone  
 Concen: 19.268 ug/l  
 RT: 4.430 min Scan# 421  
 Delta R.T. 0.006 min  
 Lab File: VN080217.D  
 Acq: 20 Nov 2023 18:57

Tgt Ion: 43 Resp: 14768  
 Ion Ratio Lower Upper  
 43 100  
 58 31.8 28.0 42.0

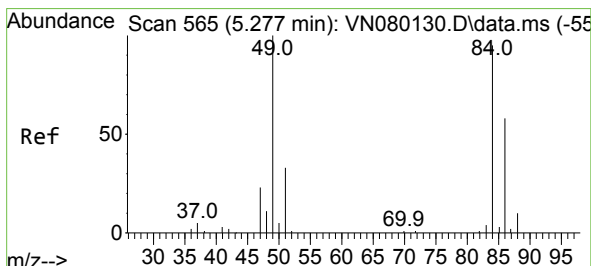
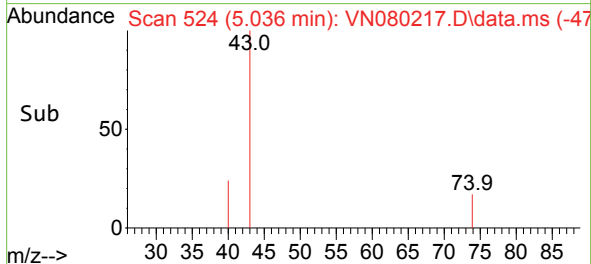
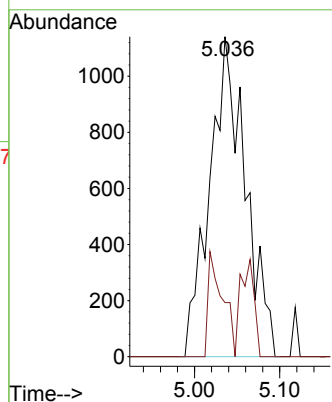
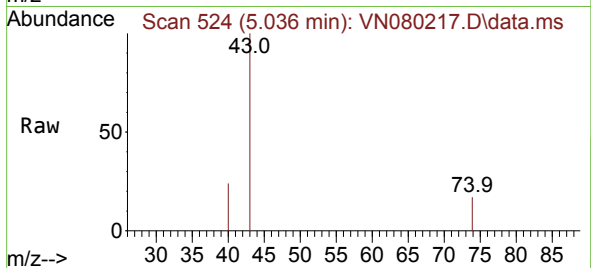




#18  
Methyl Acetate  
Concen: 1.349 ug/l  
RT: 5.036 min Scan# 51  
Delta R.T. 0.018 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

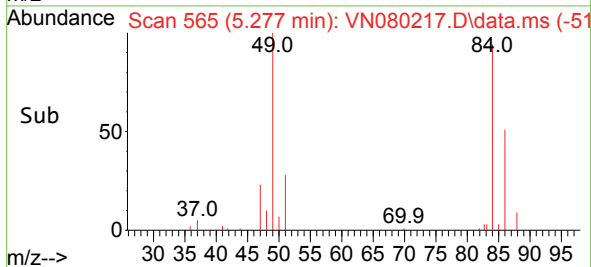
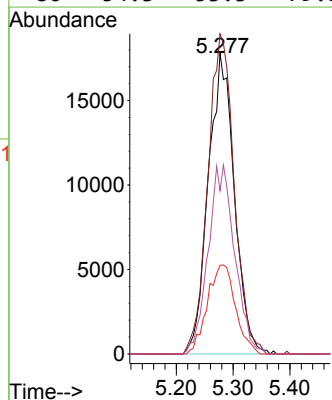
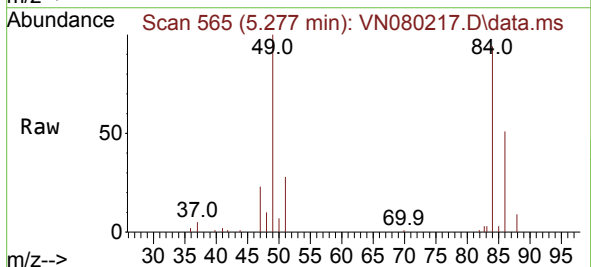
Instrument :  
MSVOA\_N  
ClientSampleId :

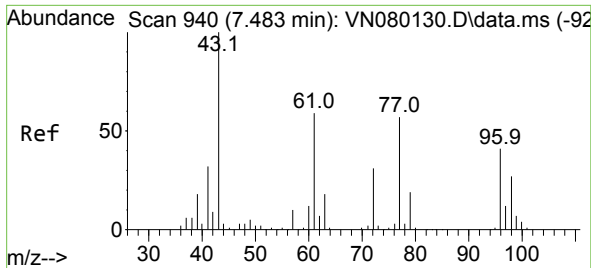
Tgt Ion: 43 Resp: 3322  
Ion Ratio Lower Upper  
43 100  
74 13.4 26.2 39.4#



#20  
Methylene Chloride  
Concen: 35.216 ug/l  
RT: 5.277 min Scan# 565  
Delta R.T. -0.000 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

Tgt Ion: 84 Resp: 56523  
Ion Ratio Lower Upper  
84 100  
49 106.4 79.7 119.5  
51 29.5 25.2 37.8  
86 54.3 53.3 79.9

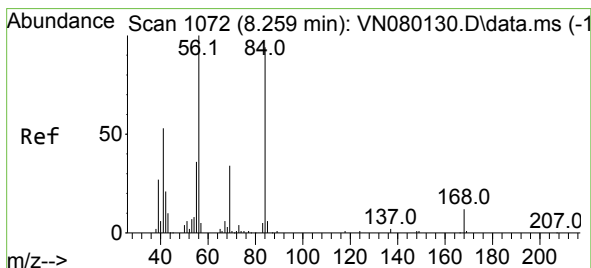
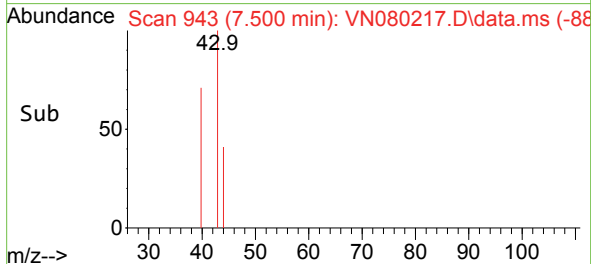
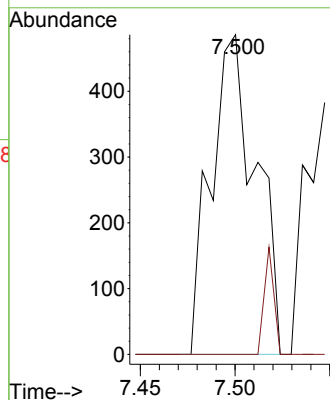
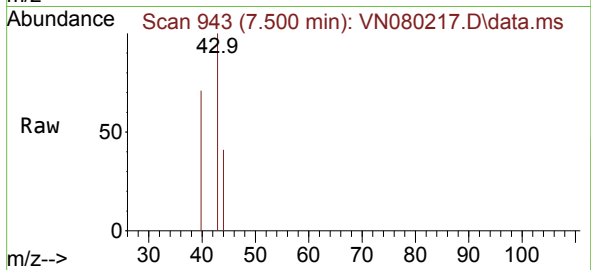




#25  
2-Butanone  
Concen: 0.883 ug/l  
RT: 7.500 min Scan# 94  
Delta R.T. 0.018 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

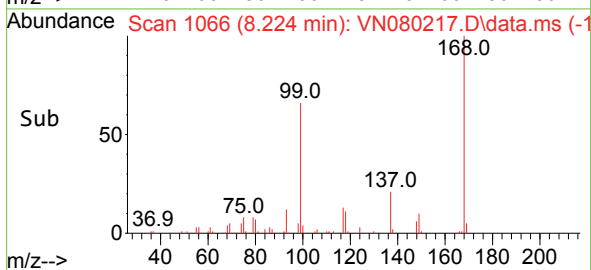
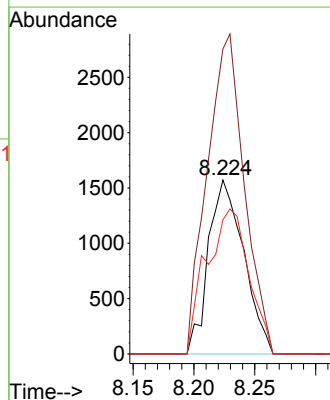
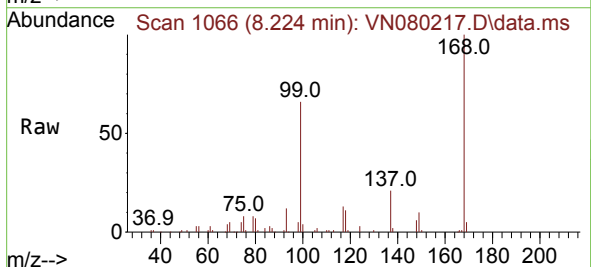
Instrument :  
MSVOA\_N  
ClientSampleId :

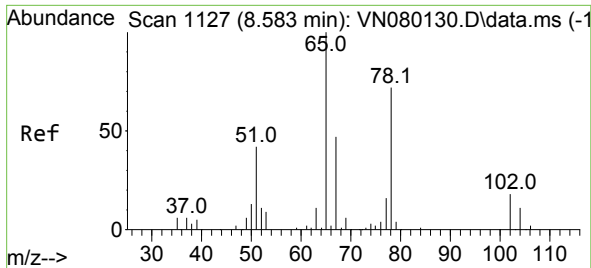
Tgt Ion: 43 Resp: 804  
Ion Ratio Lower Upper  
43 100  
72 0.0 30.2 45.2#



#31  
Cyclohexane  
Concen: 1.277 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.035 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

Tgt Ion: 56 Resp: 3168  
Ion Ratio Lower Upper  
56 100  
69 175.3 26.8 40.2#  
84 77.2 81.8 122.6#

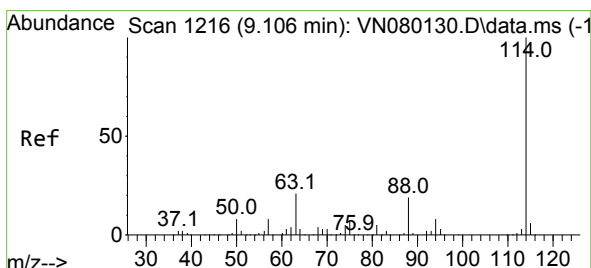
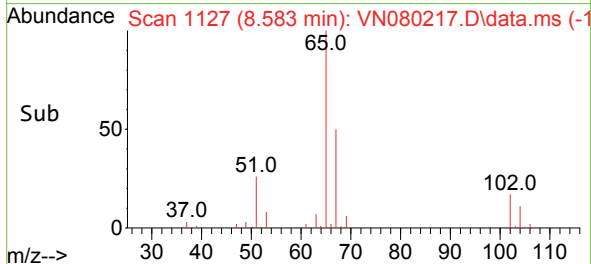
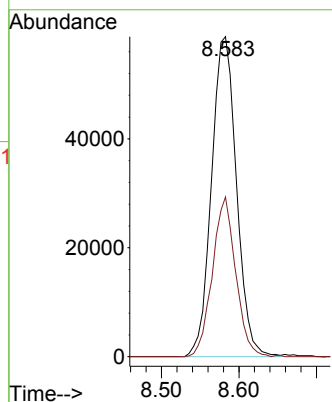
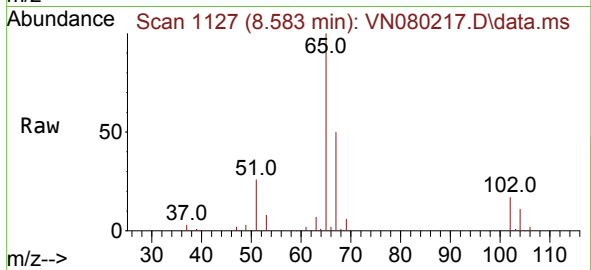




#33  
 1,2-Dichloroethane-d4  
 Concen: 57.675 ug/l  
 RT: 8.583 min Scan# 1127  
 Delta R.T. -0.000 min  
 Lab File: VN080217.D  
 Acq: 20 Nov 2023 18:57

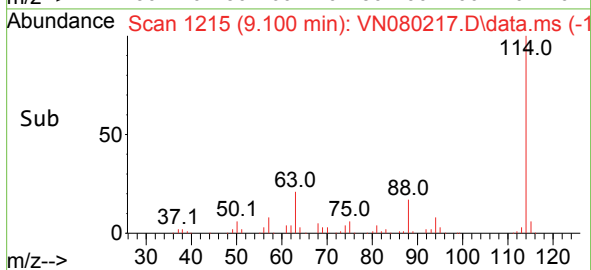
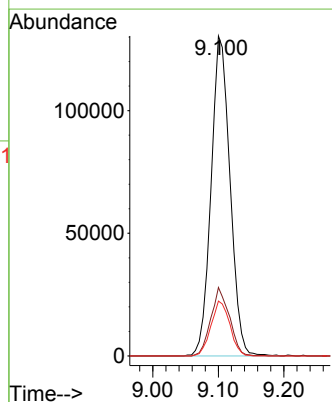
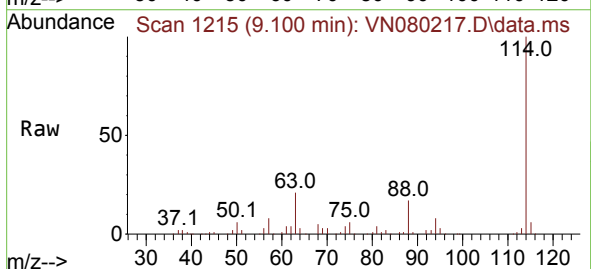
Instrument :  
 MSVOA\_N  
 ClientSampleId :

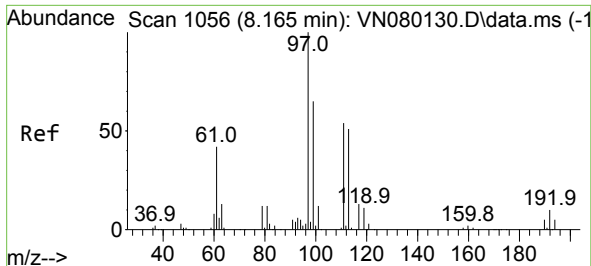
Tgt Ion: 65 Resp: 131610  
 Ion Ratio Lower Upper  
 65 100  
 67 46.5 0.0 106.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 9.100 min Scan# 1215  
 Delta R.T. -0.006 min  
 Lab File: VN080217.D  
 Acq: 20 Nov 2023 18:57

Tgt Ion: 114 Resp: 261554  
 Ion Ratio Lower Upper  
 114 100  
 63 21.4 0.0 36.4  
 88 17.2 0.0 30.6





#35

Dibromofluoromethane

Concen: 51.003 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN080217.D

Acq: 20 Nov 2023 18:57

Instrument :

MSVOA\_N

ClientSampleId :

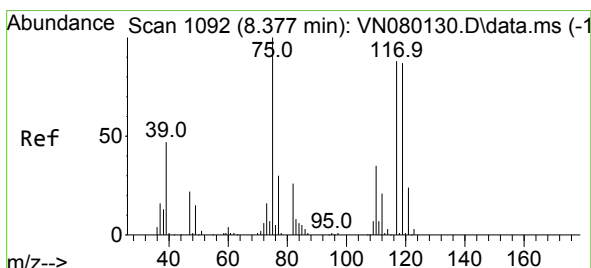
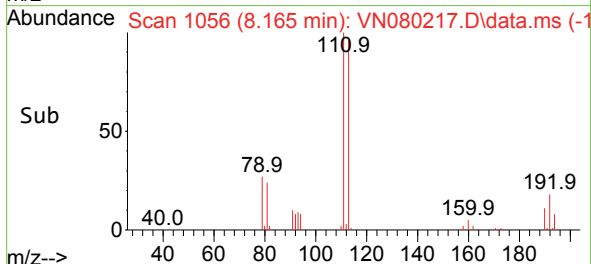
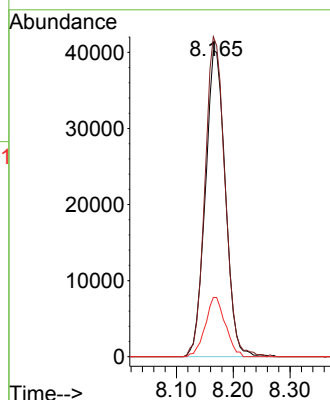
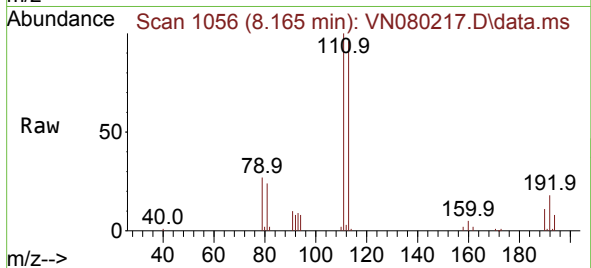
Tgt Ion:113 Resp: 98431

Ion Ratio Lower Upper

113 100

111 104.1 82.6 123.8

192 19.4 12.7 19.1#



#36

1,1-Dichloropropene

Concen: 4.062 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

Lab File: VN080217.D

Acq: 20 Nov 2023 18:57

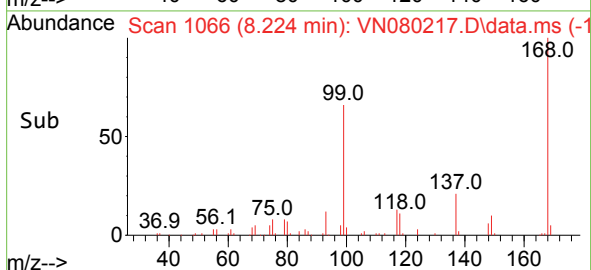
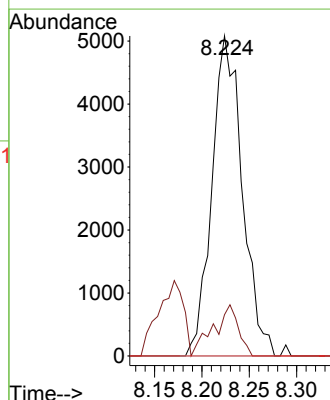
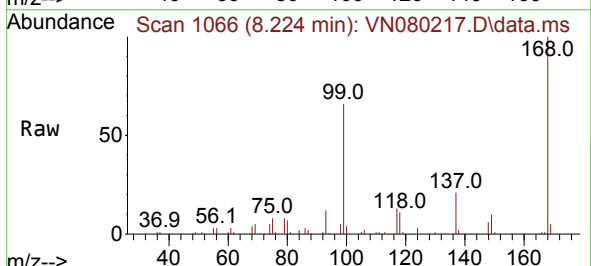
Tgt Ion: 75 Resp: 11350

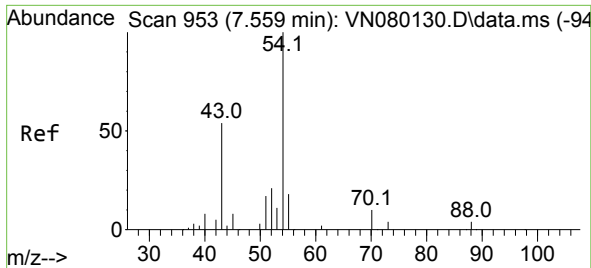
Ion Ratio Lower Upper

75 100

110 12.6 19.1 57.3#

77 0.0 25.0 37.4#

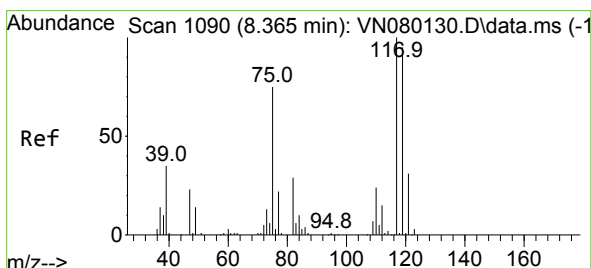
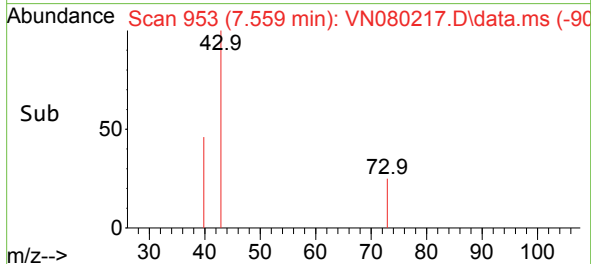
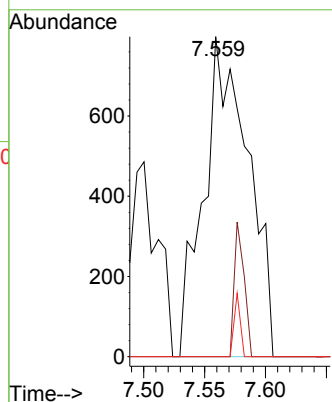
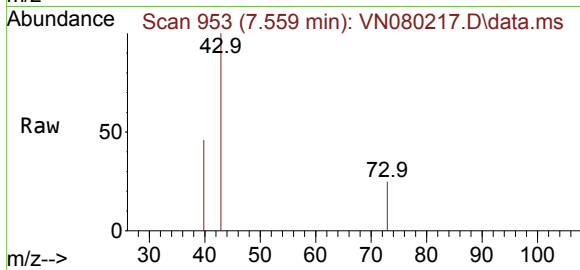




#37  
Ethyl Acetate  
Concen: 1.048 ug/l  
RT: 7.559 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

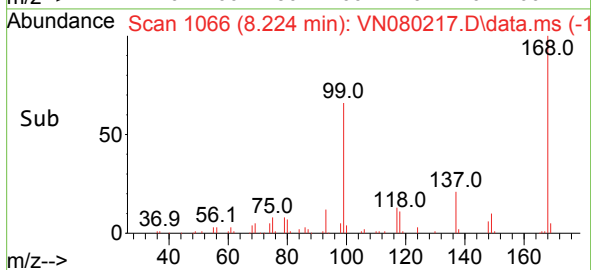
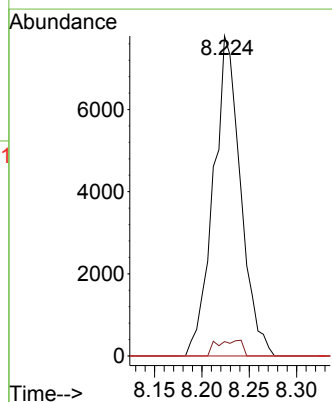
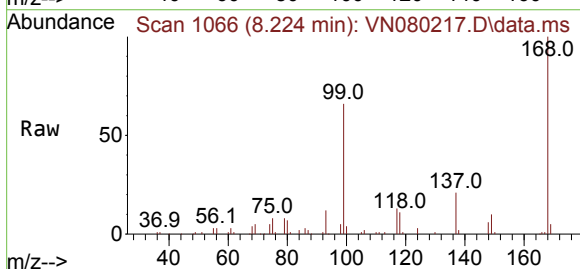
Instrument :  
MSVOA\_N  
ClientSampleId :

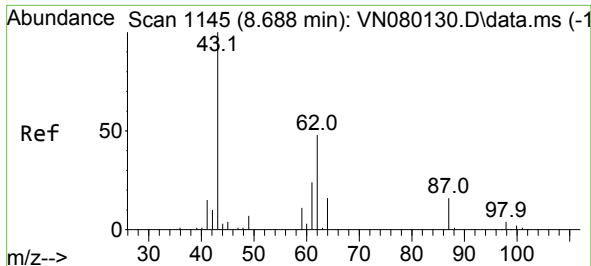
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 9.3   | 13.2  | 19.8# |
| 70      | 2.8   | 11.3  | 16.9# |



#38  
Carbon Tetrachloride  
Concen: 4.405 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.141 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.5   | 77.3  | 115.9# |
| 121     | 0.0   | 23.3  | 34.9#  |

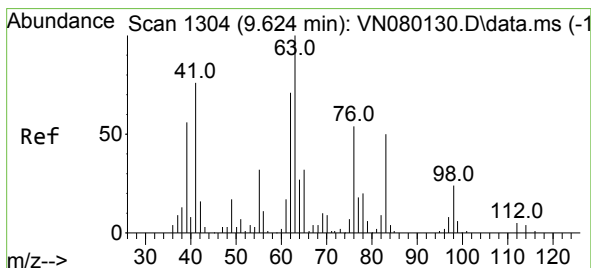
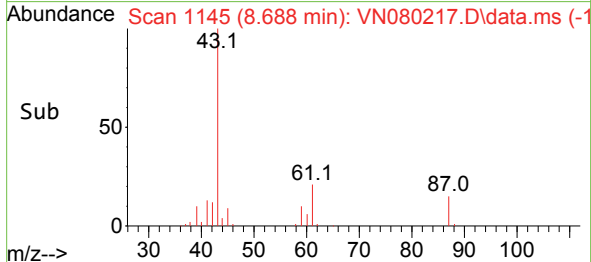
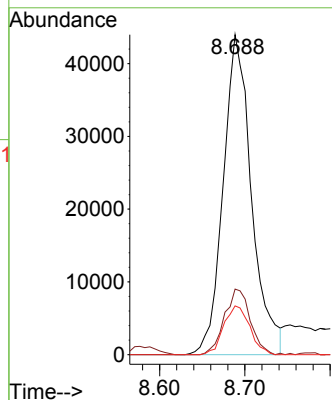
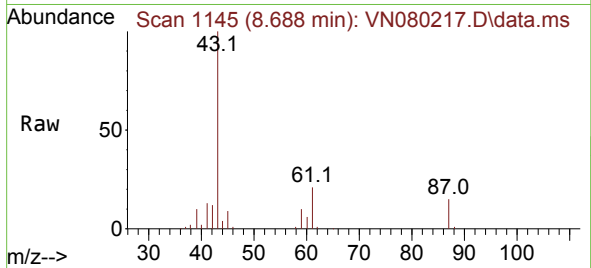




#43  
Isopropyl Acetate  
Concen: 26.963 ug/l  
RT: 8.688 min Scan# 1145  
Delta R.T. -0.000 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

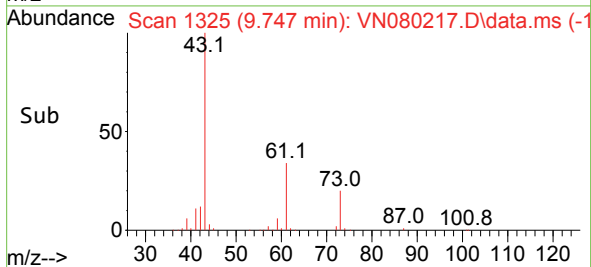
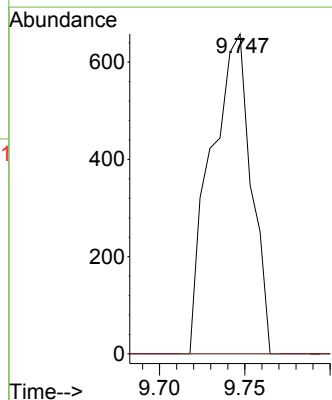
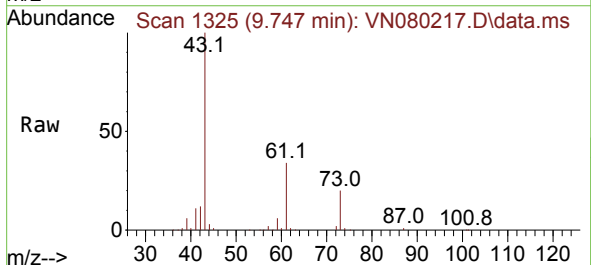
Instrument :  
MSVOA\_N  
ClientSampleId :

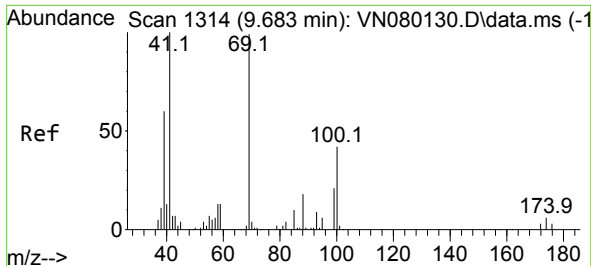
Tgt Ion: 43 Resp: 101693  
Ion Ratio Lower Upper  
43 100  
61 18.7 24.7 37.1#  
87 14.0 14.6 21.8#



#45  
1,2-Dichloropropane  
Concen: 0.586 ug/l  
RT: 9.747 min Scan# 1325  
Delta R.T. 0.123 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

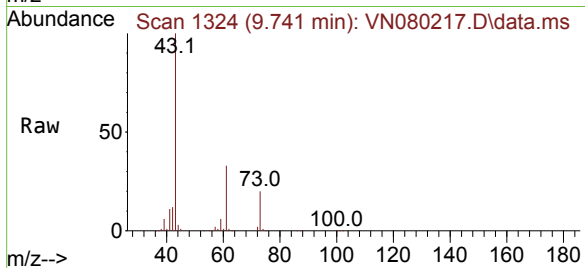
Tgt Ion: 63 Resp: 1082  
Ion Ratio Lower Upper  
63 100  
65 0.0 23.9 35.9#



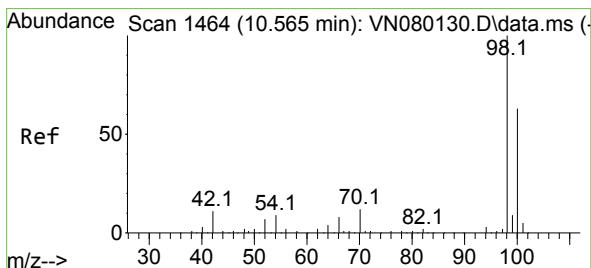
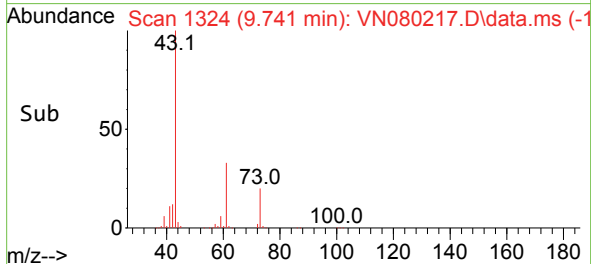
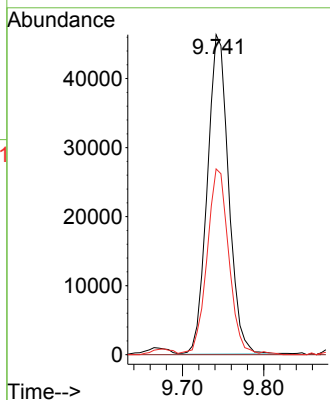


#48  
Methyl methacrylate  
Concen: 43.130 ug/l  
RT: 9.741 min Scan# 11  
Delta R.T. 0.059 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

Instrument :  
MSVOA\_N  
ClientSampleId :

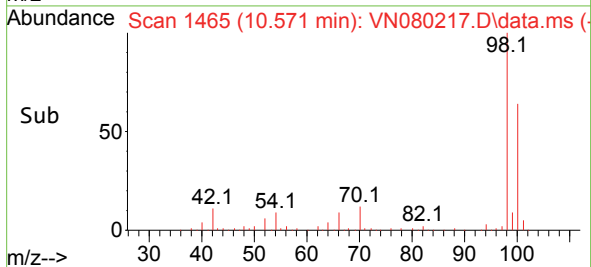
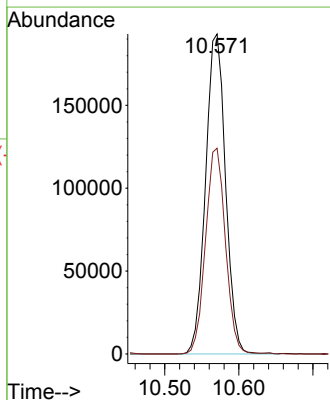
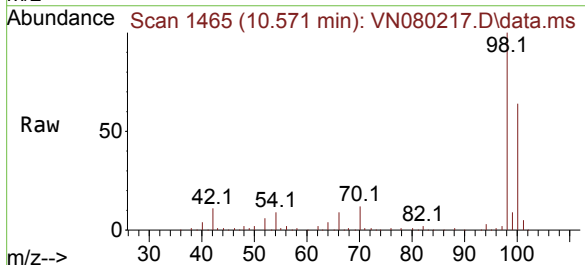


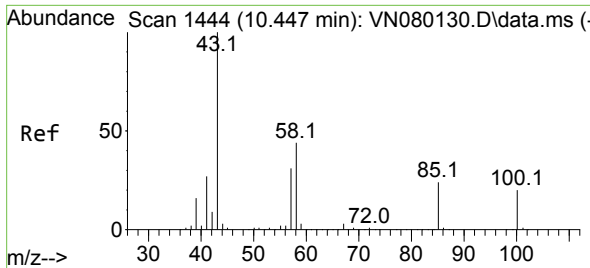
Tgt Ion: 41 Resp: 83828  
Ion Ratio Lower Upper  
41 100  
69 0.0 90.4 135.6#  
39 58.8 54.6 81.8



#50  
Toluene-d8  
Concen: 51.905 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.006 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

Tgt Ion: 98 Resp: 361105  
Ion Ratio Lower Upper  
98 100  
100 64.2 52.0 78.0

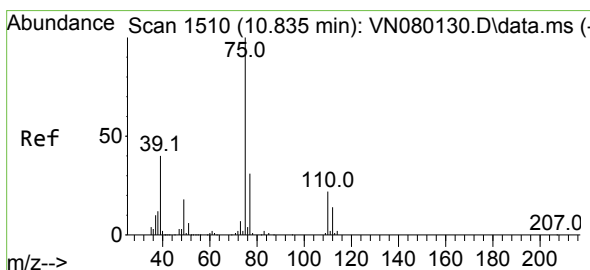
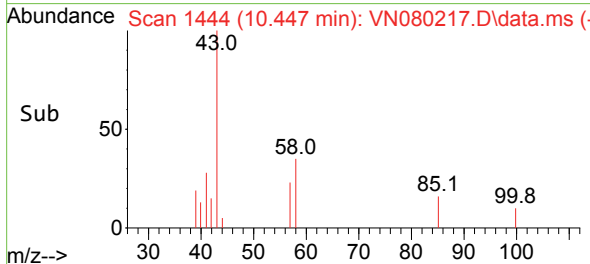
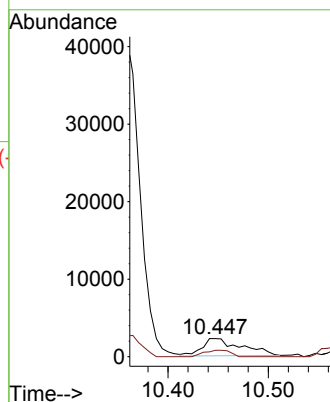
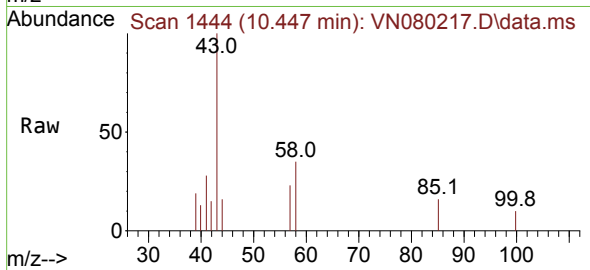




#51  
4-Methyl-2-Pentanone  
Concen: 3.147 ug/l  
RT: 10.447 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

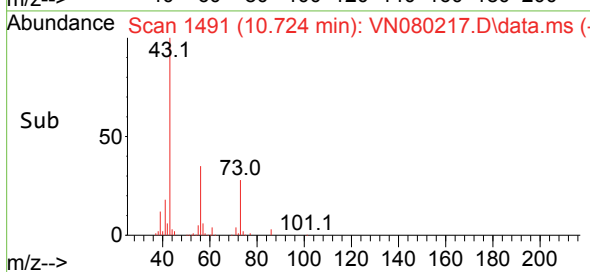
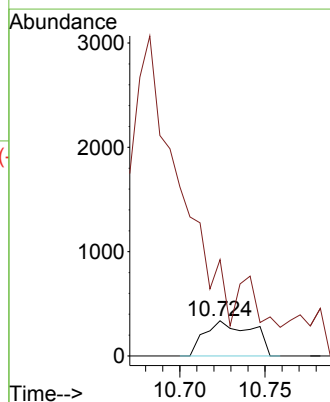
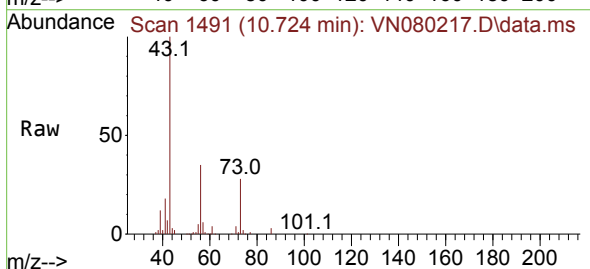
Instrument :  
MSVOA\_N  
ClientSampleId :

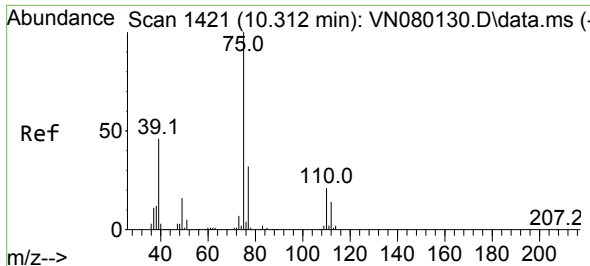
Tgt Ion: 43 Resp: 6144  
Ion Ratio Lower Upper  
43 100  
58 24.5 36.6 54.8#



#53  
t-1,3-Dichloropropene  
Concen: 0.204 ug/l  
RT: 10.724 min Scan# 1491  
Delta R.T. -0.112 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

Tgt Ion: 75 Resp: 644  
Ion Ratio Lower Upper  
75 100  
77 192.0 25.4 38.0#

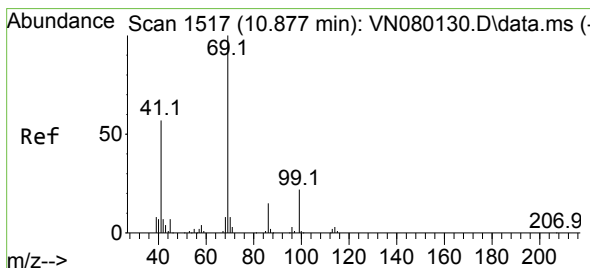
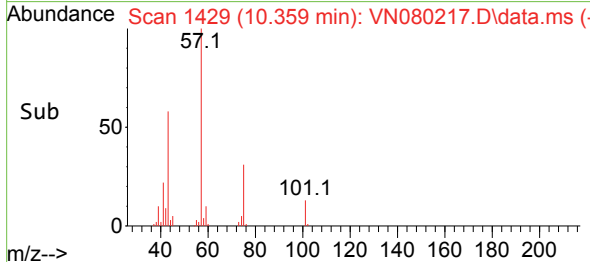
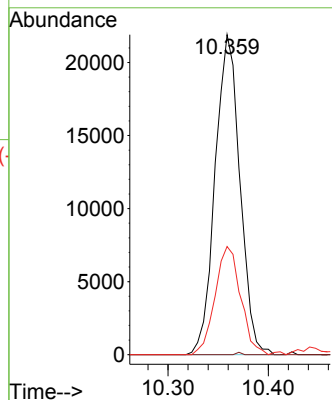
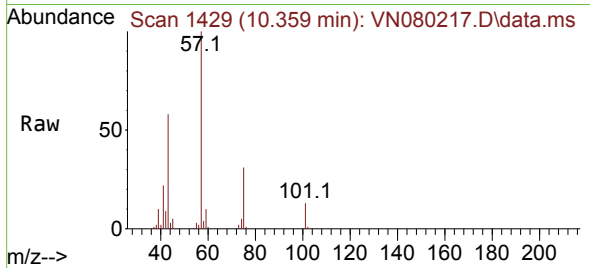




#54  
cis-1,3-Dichloropropene  
Concen: 11.669 ug/l  
RT: 10.359 min Scan# 1429  
Delta R.T. 0.047 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

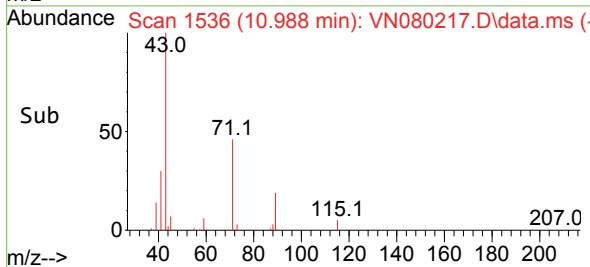
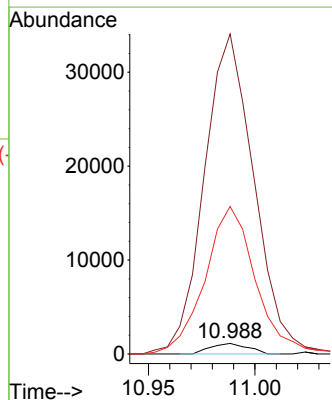
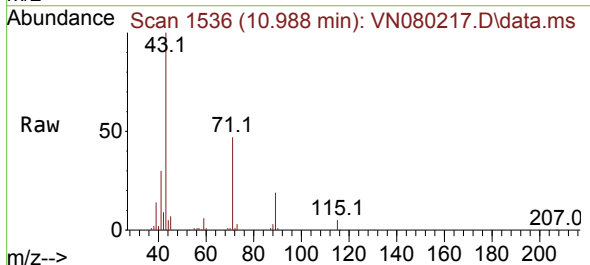
Instrument :  
MSVOA\_N  
ClientSampleId :

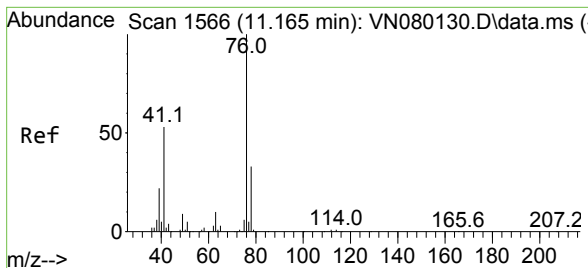
Tgt Ion: 75 Resp: 37639  
Ion Ratio Lower Upper  
75 100  
77 0.0 26.1 39.1#  
39 33.8 31.6 47.4



#56  
Ethyl methacrylate  
Concen: 0.716 ug/l  
RT: 10.988 min Scan# 1536  
Delta R.T. 0.112 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

Tgt Ion: 69 Resp: 1387  
Ion Ratio Lower Upper  
69 100  
41 4014.6 39.6 59.4#  
39 1874.1 28.6 43.0#

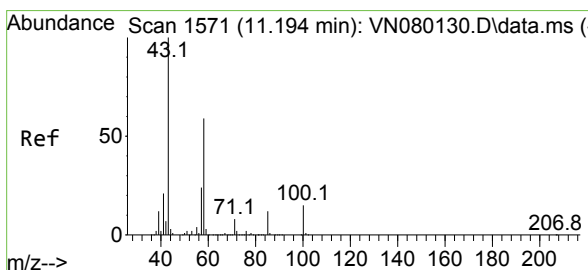
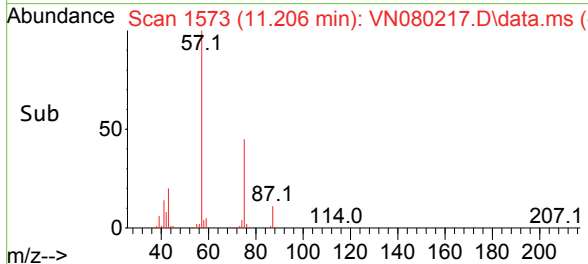
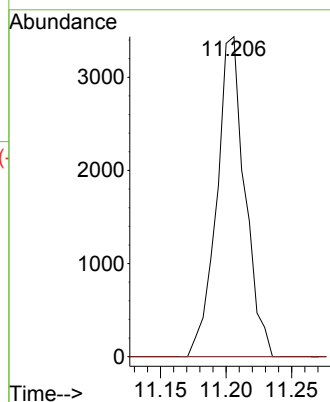
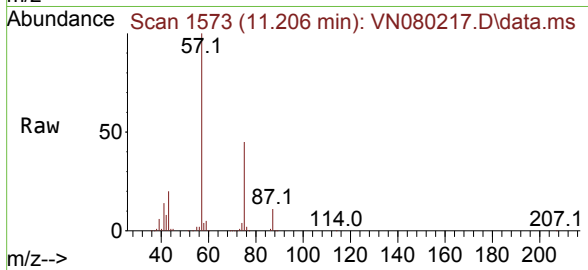




#57  
1,3-Dichloropropane  
Concen: 1.551 ug/l  
RT: 11.206 min Scan# 1573  
Delta R.T. 0.041 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

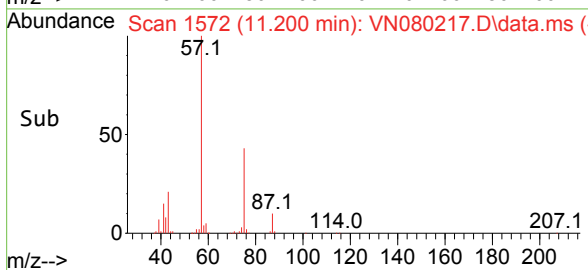
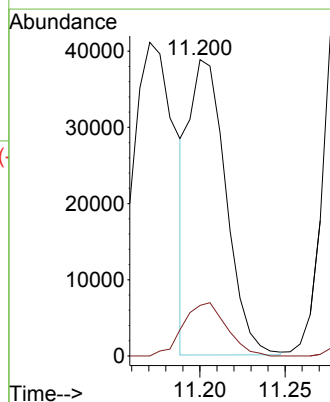
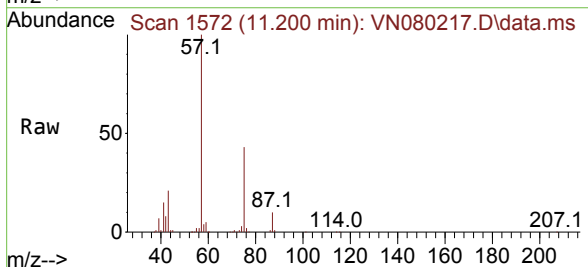
Instrument :  
MSVOA\_N  
ClientSampleId :

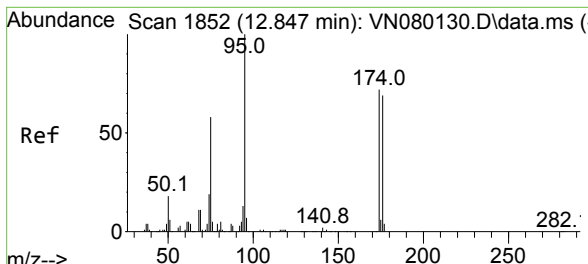
Tgt Ion: 76 Resp: 5136  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.1 39.1#



#59  
2-Hexanone  
Concen: 37.218 ug/l  
RT: 11.200 min Scan# 1572  
Delta R.T. 0.006 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

Tgt Ion: 43 Resp: 58396  
Ion Ratio Lower Upper  
43 100  
58 21.2 31.7 95.1#

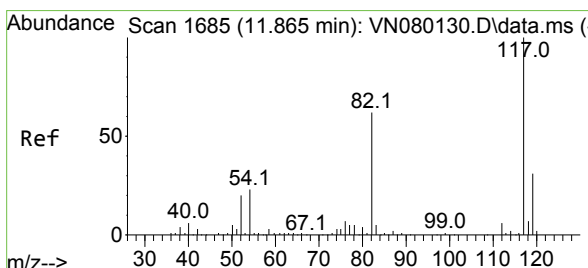
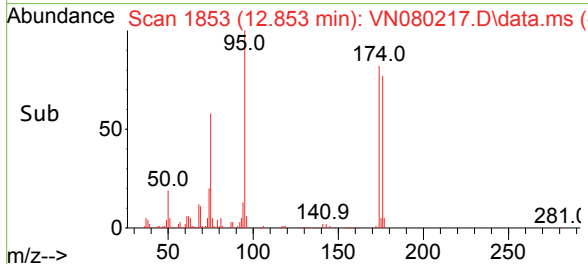
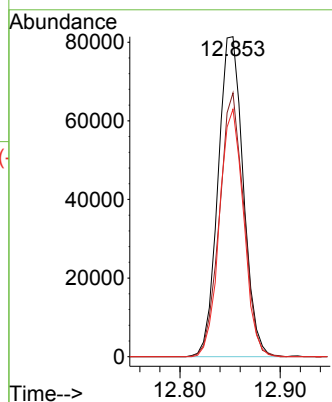
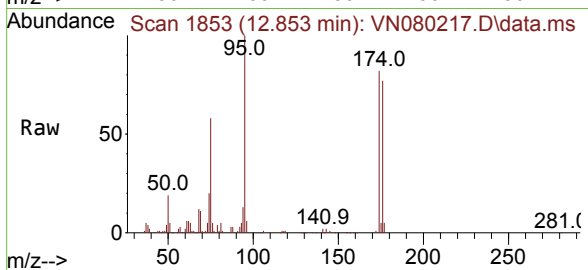




#62  
4-Bromofluorobenzene  
Concen: 53.986 ug/l  
RT: 12.853 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

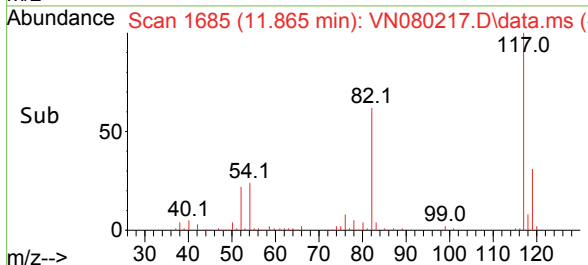
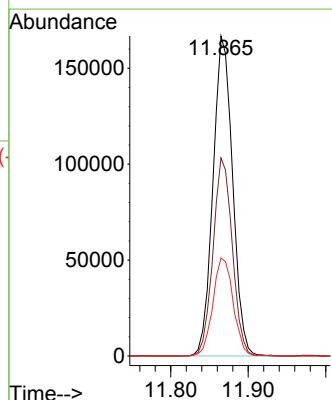
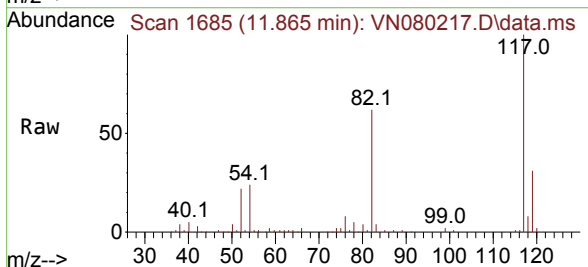
Instrument :  
MSVOA\_N  
ClientSampleId :

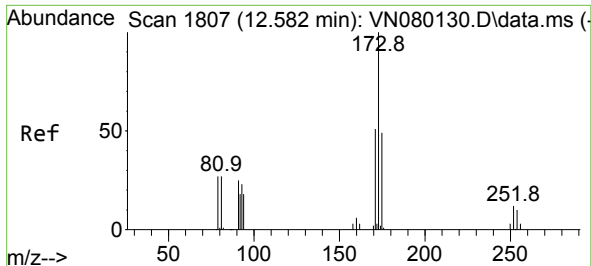
Tgt Ion: 95 Resp: 141863  
Ion Ratio Lower Upper  
95 100  
174 79.5 0.0 143.8  
176 74.1 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

Tgt Ion: 117 Resp: 293178  
Ion Ratio Lower Upper  
117 100  
82 61.9 44.0 66.0  
119 30.6 25.6 38.4

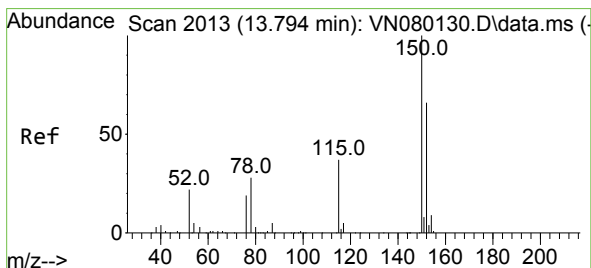
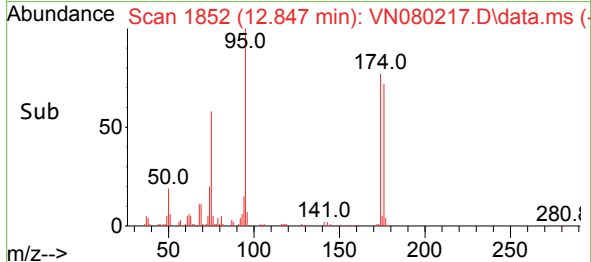
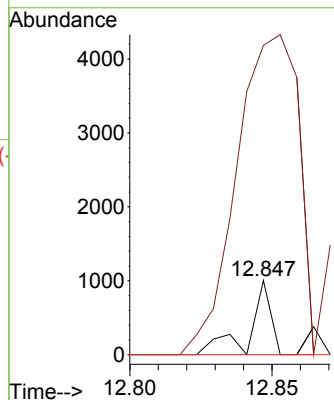
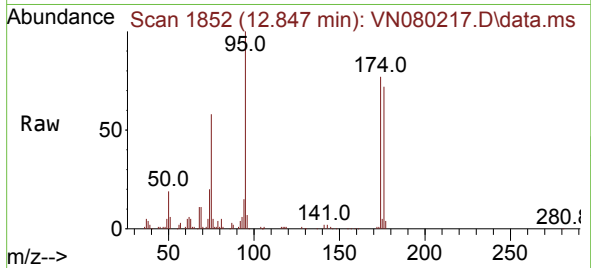




#71  
Bromoform  
Concen: 0.275 ug/l  
RT: 12.847 min Scan# 1807  
Delta R.T. 0.265 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

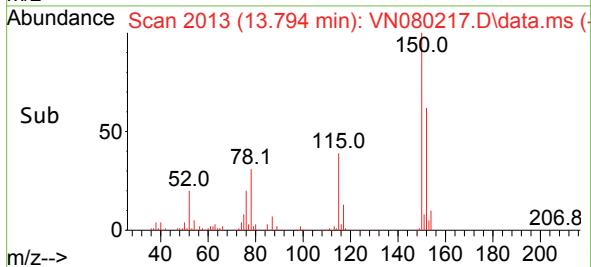
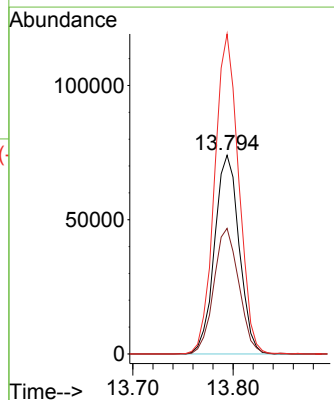
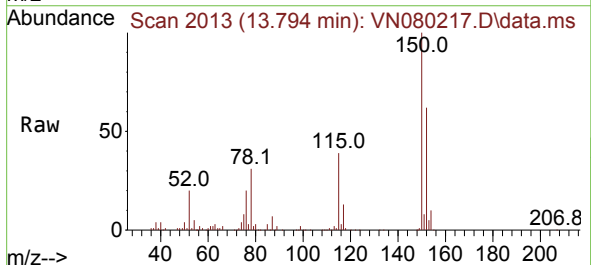
Instrument :  
MSVOA\_N  
ClientSampleId :

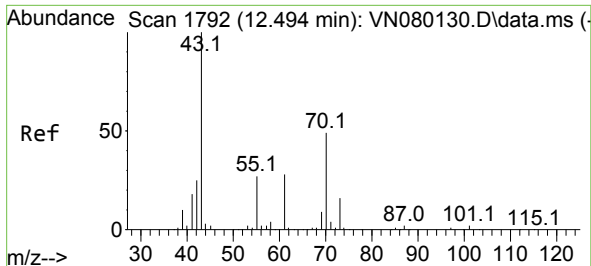
Tgt Ion:173 Resp: 525  
Ion Ratio Lower Upper  
173 100  
175 1247.6 24.3 73.0#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 2013  
Delta R.T. -0.000 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

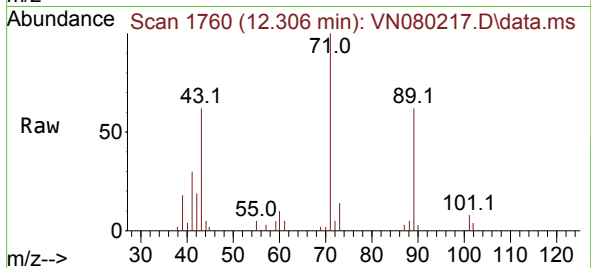
Tgt Ion:152 Resp: 125893  
Ion Ratio Lower Upper  
152 100  
115 64.4 32.3 96.8  
150 157.6 0.0 355.8



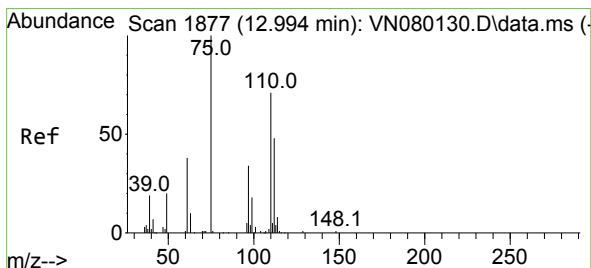
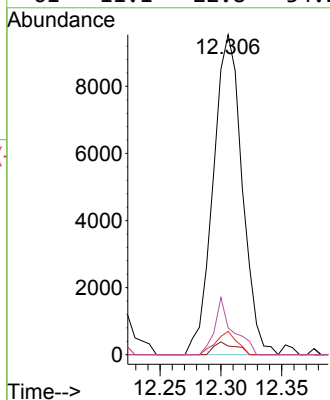
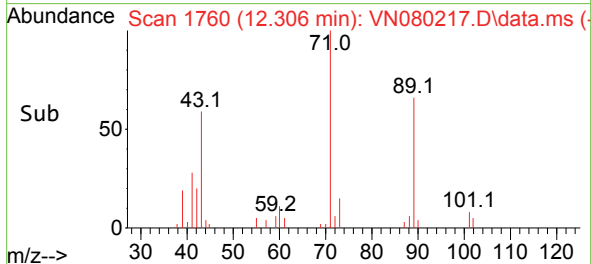


#74  
N-amy1 acetate  
Concen: 5.188 ug/l  
RT: 12.306 min Scan# 11  
Delta R.T. -0.188 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

Instrument :  
MSVOA\_N  
ClientSampleId :

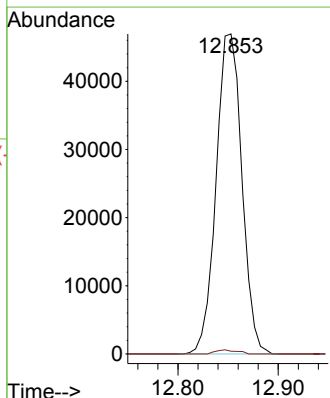
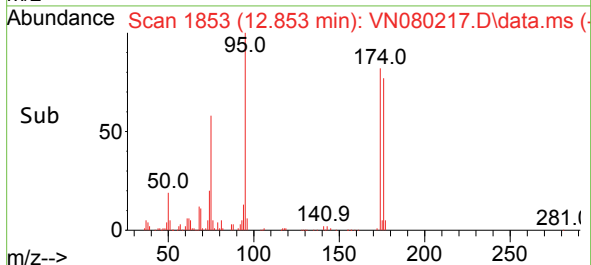
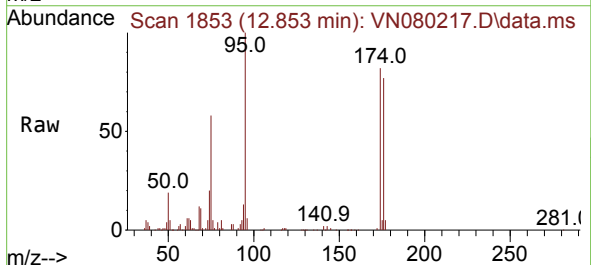


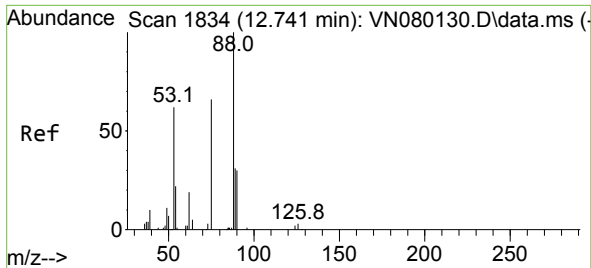
Tgt Ion: 43 Resp: 15828  
Ion Ratio Lower Upper  
43 100  
70 3.0 43.4 65.2#  
55 5.3 21.4 32.0#  
61 11.1 22.8 34.2#



#76  
1,2,3-Trichloropropane  
Concen: 27.118 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.141 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

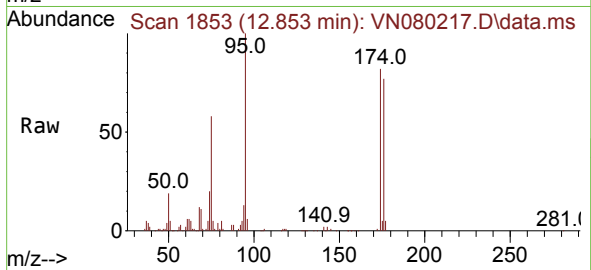
Tgt Ion: 75 Resp: 83647  
Ion Ratio Lower Upper  
75 100  
77 1.1 84.5 253.5#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 91.619 ug/l  
RT: 12.853 min Scan# 11  
Delta R.T. 0.112 min  
Lab File: VN080217.D  
Acq: 20 Nov 2023 18:57

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion: 75 Resp: 83647  
Ion Ratio Lower Upper  
75 100  
53 0.1 67.4 101.2#  
89 0.0 38.8 58.2#

