

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN082223\  
 Data File : VN078992.D  
 Acq On : 22 Aug 2023 14:23  
 Operator : JC\MD  
 Sample : PB154968ZHE#07  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Aug 23 03:02:36 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081523W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 16 02:42:02 2023  
 Response via : Initial Calibration

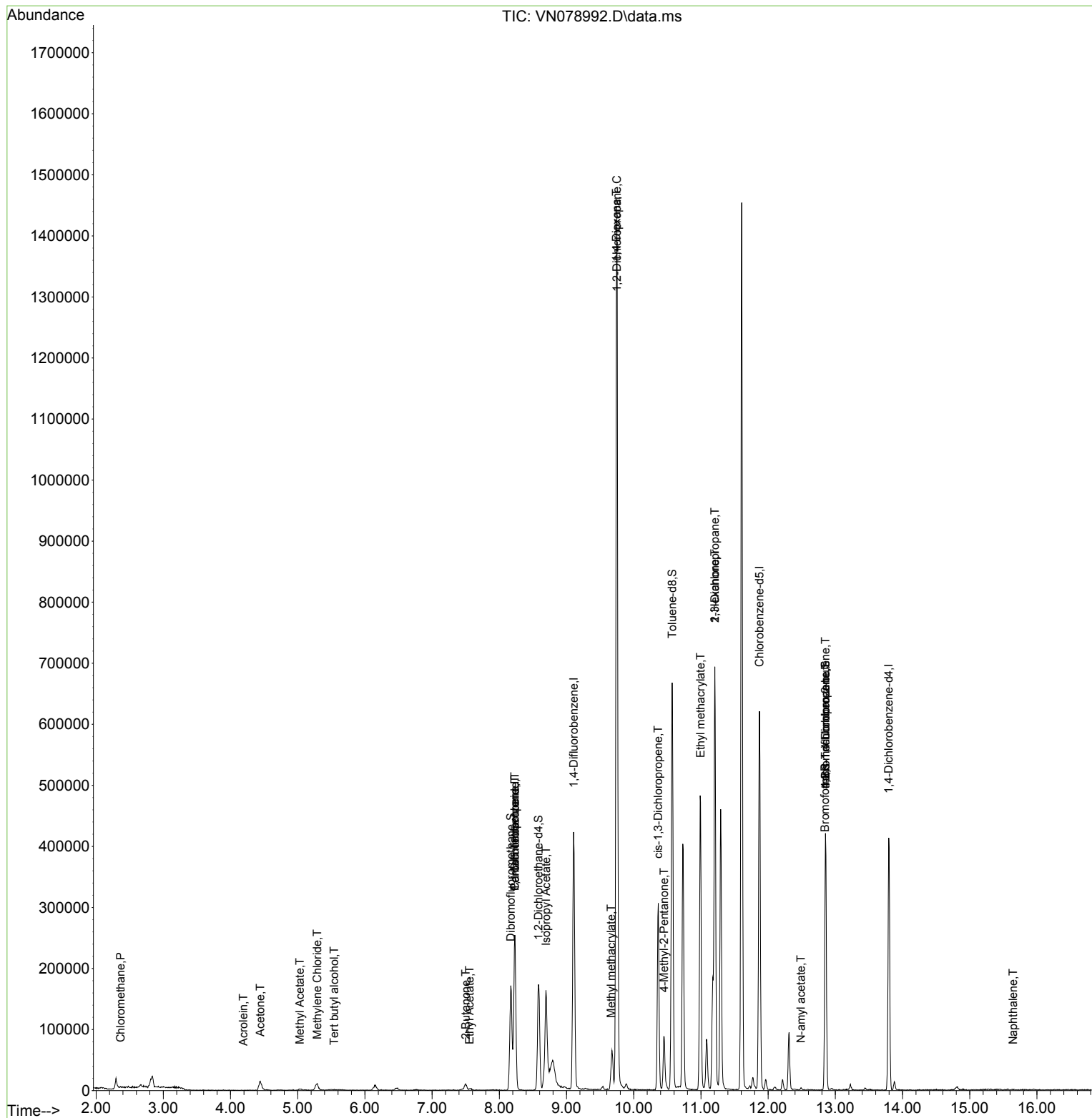
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.230          | 168  | 174989              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 353997              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.871         | 117  | 342312              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 105827              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.583          | 65   | 143400              | 52.663    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 105.320% |           |        |          |
| 35) Dibromofluoromethane      | 8.171          | 113  | 118911              | 49.901    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 99.800%  |           |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 444445              | 50.231    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 100.460% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 137479              | 47.537    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 95.080%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 3) Chloromethane              | 2.365          | 50   | 771                 | 0.227     | ug/l # | 42       |
| 11) Tert butyl alcohol        | 5.542          | 59   | 186                 | 0.407     | ug/l # | 72       |
| 13) Acrolein                  | 4.189          | 56   | 54                  | 7.028     | ug/l # | 16       |
| 16) Acetone                   | 4.442          | 43   | 28726               | 25.567    | ug/l   | 98       |
| 18) Methyl Acetate            | 5.030          | 43   | 2108                | 0.444     | ug/l # | 80       |
| 20) Methylene Chloride        | 5.289          | 84   | 7913                | 3.305     | ug/l   | 91       |
| 25) 2-Butanone                | 7.500          | 43   | 17333               | 9.622     | ug/l # | 67       |
| 31) Cyclohexane               | 8.230          | 56   | 5030                | Below Cal | #      | 43       |
| 36) 1,1-Dichloropropene       | 8.230          | 75   | 17449               | 4.868     | ug/l # | 47       |
| 37) Ethyl Acetate             | 7.559          | 43   | 829                 | 0.207     | ug/l # | 76       |
| 38) Carbon Tetrachloride      | 8.230          | 117  | 20041               | 5.580     | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.694          | 43   | 200106              | 28.229    | ug/l # | 72       |
| 45) 1,2-Dichloropropane       | 9.747          | 63   | 1608                | 0.570     | ug/l # | 45       |
| 48) Methyl methacrylate       | 9.665          | 41   | 4708                | 1.466     | ug/l # | 31       |
| 49) 1,4-Dioxane               | 9.741          | 88   | 61                  | 1.115     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.453         | 43   | 64915               | 15.440    | ug/l # | 85       |
| 54) cis-1,3-Dichloropropene   | 10.365         | 75   | 50535               | 11.325    | ug/l # | 70       |
| 56) Ethyl methacrylate        | 10.994         | 69   | 1799                | 0.445     | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 11.206         | 76   | 7211                | 1.546     | ug/l # | 42       |
| 59) 2-Hexanone                | 11.206         | 43   | 91212               | 29.953    | ug/l # | 45       |
| 71) Bromoform                 | 12.847         | 173  | 962                 | 0.481     | ug/l # | 28       |
| 74) N-amyl acetate            | 12.488         | 43   | 1857                | 0.417     | ug/l # | 38       |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 77768               | 30.498    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 77768               | 77.910    | ug/l # | 15       |
| 95) Naphthalene               | 15.647         | 128  | 161                 | 2.606     | ug/l # | 70       |
| -----                         |                |      |                     |           |        |          |

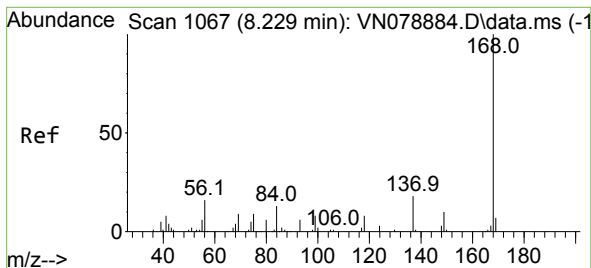
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN082223\  
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ClientSampleId :

Quant Time: Aug 23 03:02:36 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081523W.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 16 02:42:02 2023  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN078992.D

Acq: 22 Aug 2023 14:23

Instrument :

MSVOA\_N

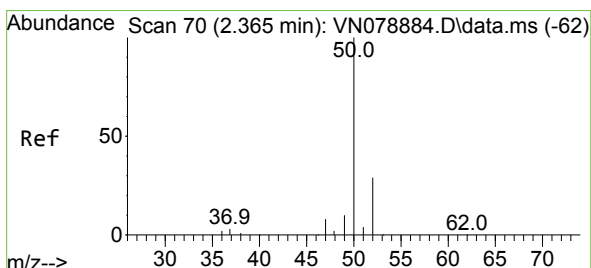
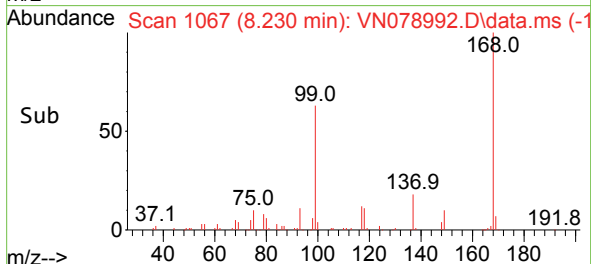
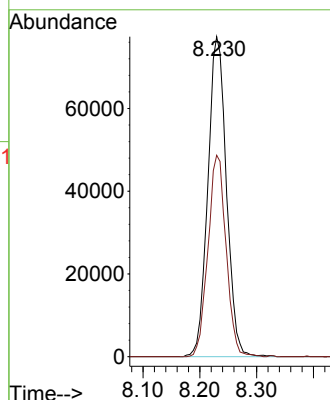
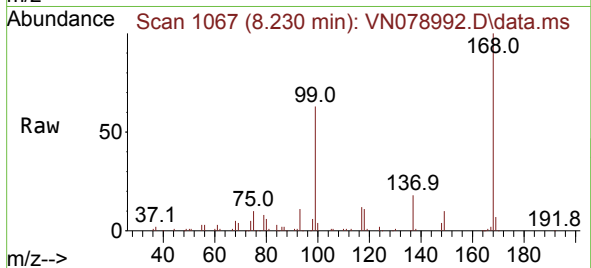
ClientSampleId :

Tgt Ion:168 Resp: 174989

Ion Ratio Lower Upper

168 100

99 63.0 53.0 79.6



#3

Chloromethane

Concen: 0.227 ug/l

RT: 2.365 min Scan# 70

Delta R.T. -0.006 min

Lab File: VN078992.D

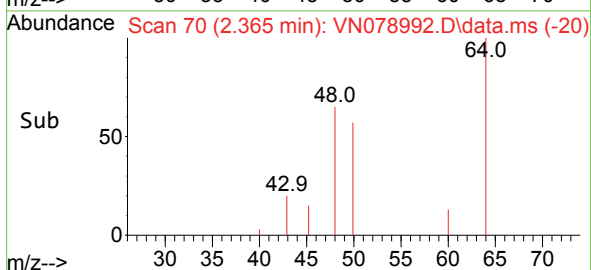
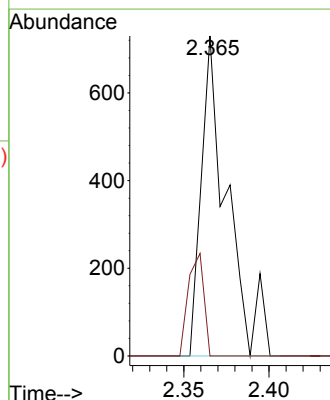
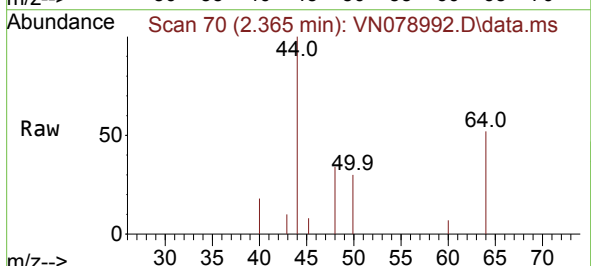
Acq: 22 Aug 2023 14:23

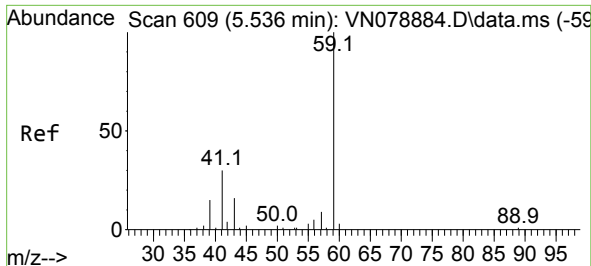
Tgt Ion: 50 Resp: 771

Ion Ratio Lower Upper

50 100

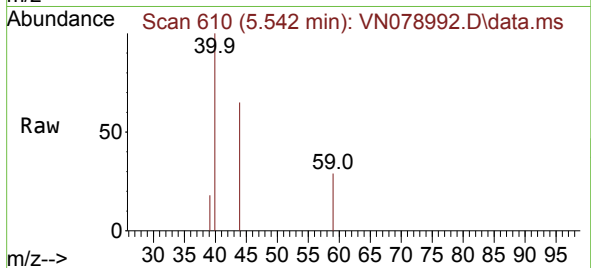
52 0.0 26.5 39.7#



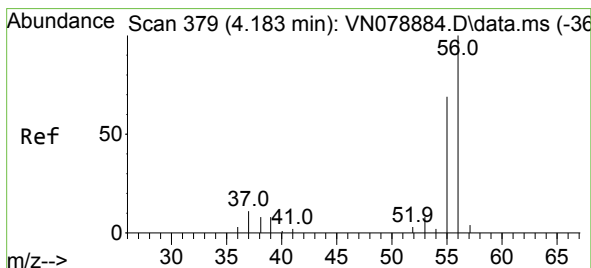
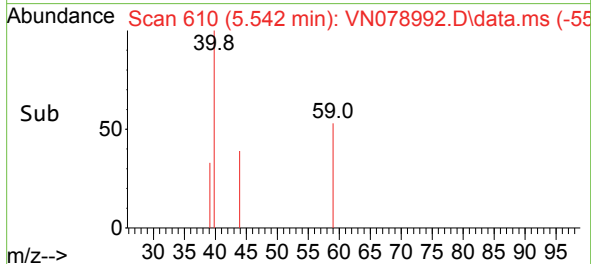
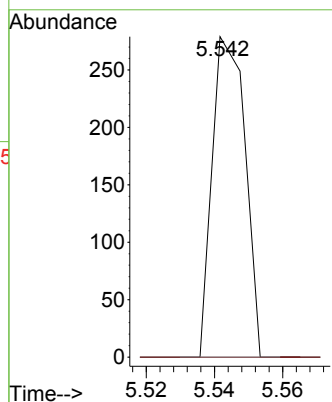


#11  
Tert butyl alcohol  
Concen: 0.407 ug/l  
RT: 5.542 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23

Instrument :  
MSVOA\_N  
ClientSampleId :

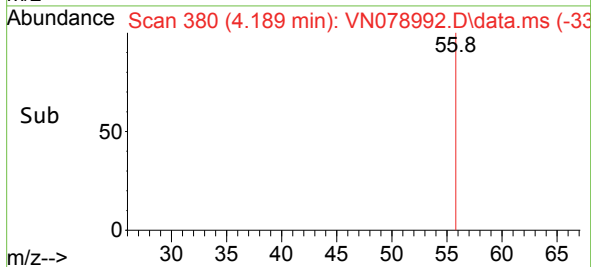
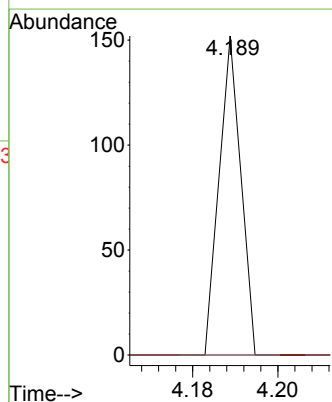
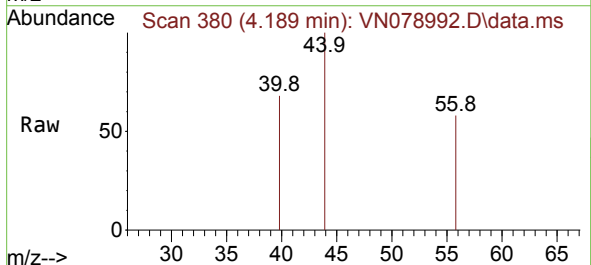


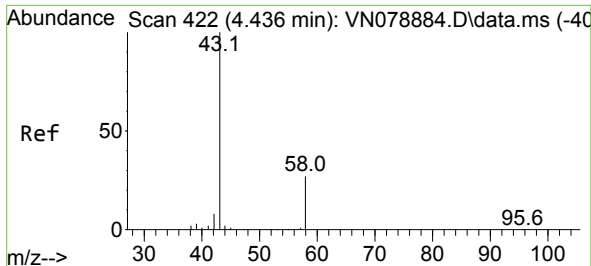
Tgt Ion: 59 Resp: 186  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#



#13  
Acrolein  
Concen: 7.028 ug/l  
RT: 4.189 min Scan# 380  
Delta R.T. -0.006 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23

Tgt Ion: 56 Resp: 54  
Ion Ratio Lower Upper  
56 100  
55 0.0 54.5 81.7#

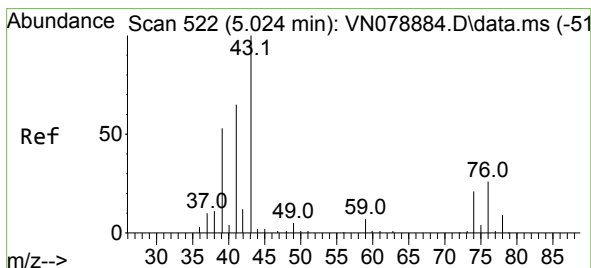
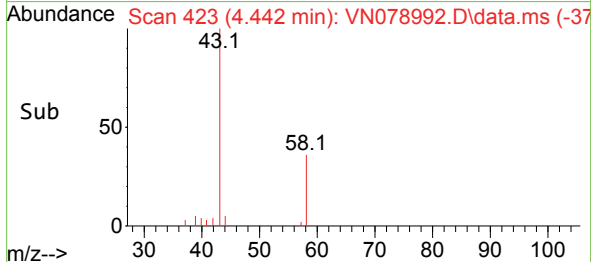
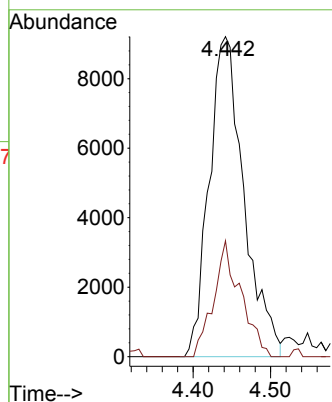
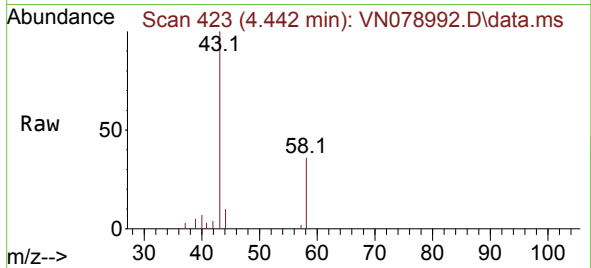




#16  
Acetone  
Concen: 25.567 ug/l  
RT: 4.442 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23

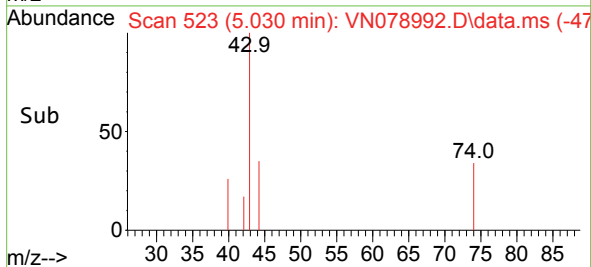
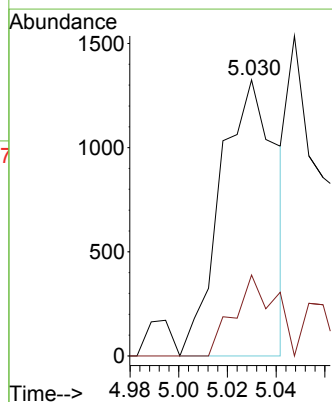
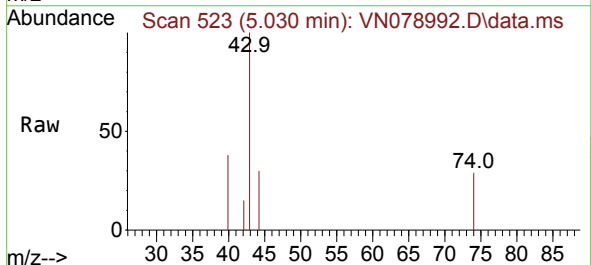
Instrument :  
MSVOA\_N  
ClientSampleId :

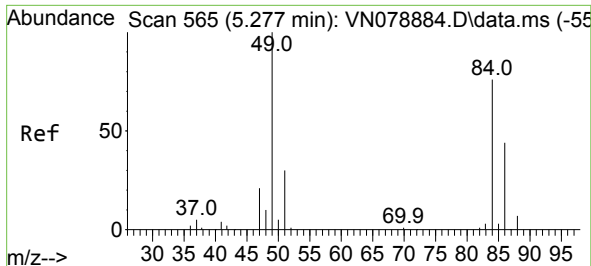
Tgt Ion: 43 Resp: 28726  
Ion Ratio Lower Upper  
43 100  
58 36.2 28.0 42.0



#18  
Methyl Acetate  
Concen: 0.444 ug/l  
RT: 5.030 min Scan# 523  
Delta R.T. -0.012 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23

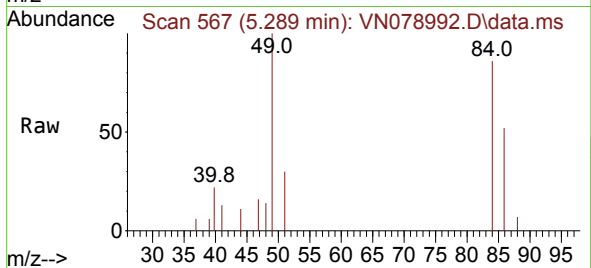
Tgt Ion: 43 Resp: 2108  
Ion Ratio Lower Upper  
43 100  
74 21.6 26.2 39.4#



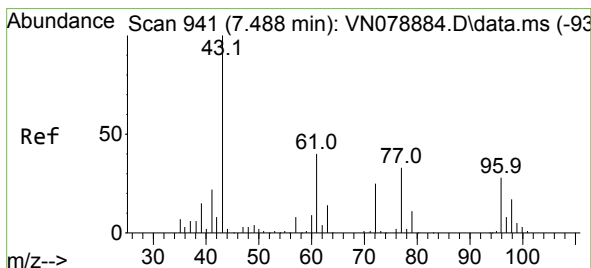
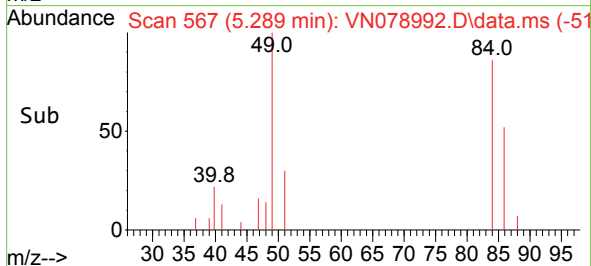
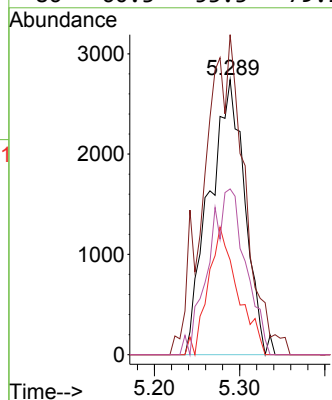


#20  
Methylene Chloride  
Concen: 3.305 ug/l  
RT: 5.289 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23

Instrument :  
MSVOA\_N  
ClientSampleId :

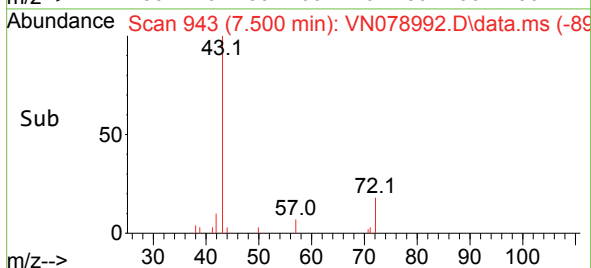
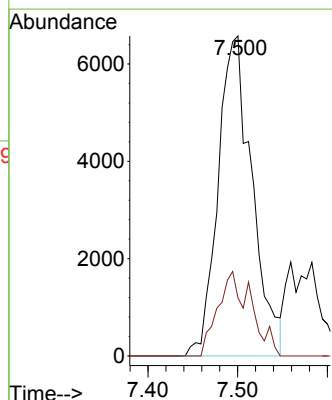
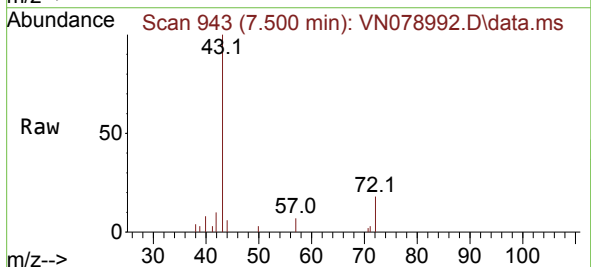


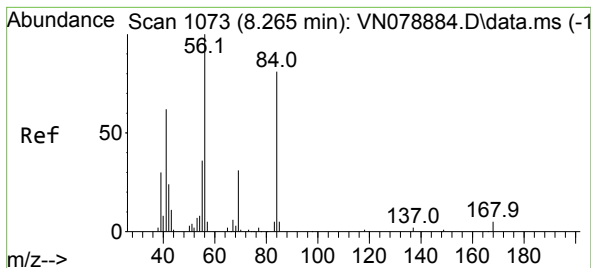
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 84 | Resp: | 7913        |
| Ion         | Ratio | Lower Upper |
| 84          | 100   |             |
| 49          | 110.6 | 79.7 119.5  |
| 51          | 34.4  | 25.2 37.8   |
| 86          | 60.3  | 53.3 79.9   |



#25  
2-Butanone  
Concen: 9.622 ug/l  
RT: 7.500 min Scan# 943  
Delta R.T. 0.006 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 43 | Resp: | 17333       |
| Ion         | Ratio | Lower Upper |
| 43          | 100   |             |
| 72          | 18.2  | 30.2 45.2#  |





#31

Cyclohexane

Concen: Below Cal

RT: 8.230 min Scan# 1

Delta R.T. -0.035 min

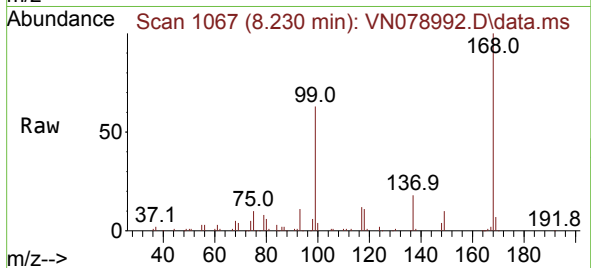
Lab File: VN078992.D

Acq: 22 Aug 2023 14:23

Instrument :

MSVOA\_N

ClientSampleId :



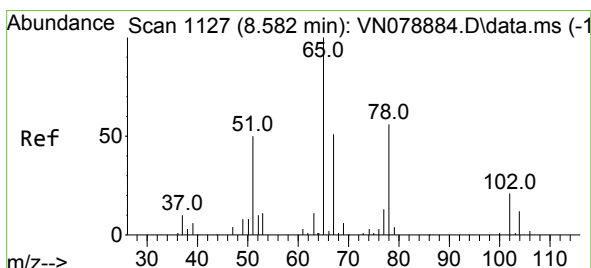
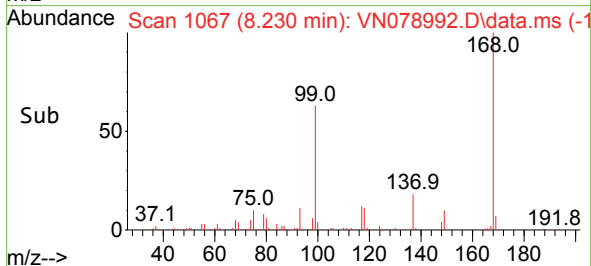
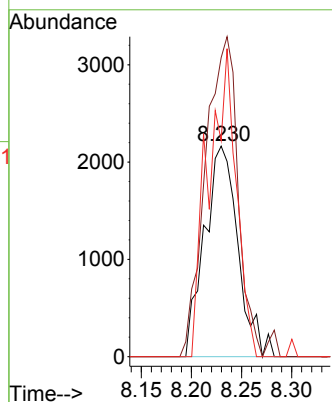
Tgt Ion: 56 Resp: 5030

Ion Ratio Lower Upper

56 100

69 142.0 26.8 40.2#

84 114.9 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 52.663 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN078992.D

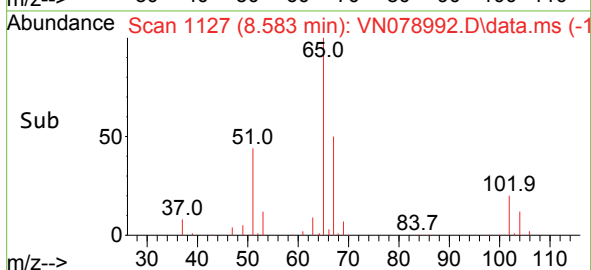
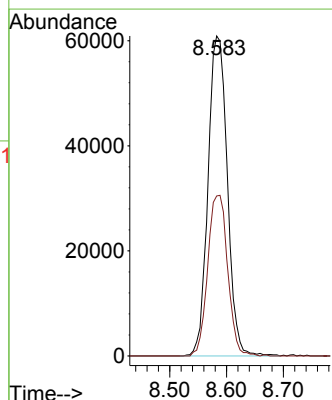
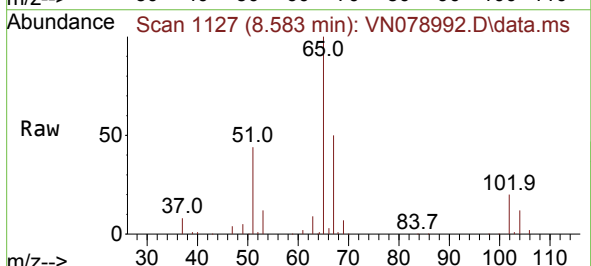
Acq: 22 Aug 2023 14:23

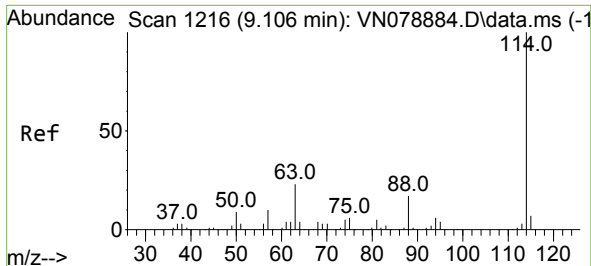
Tgt Ion: 65 Resp: 143400

Ion Ratio Lower Upper

65 100

67 51.8 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN078992.D

Acq: 22 Aug 2023 14:23

Instrument :

MSVOA\_N

ClientSampleId :

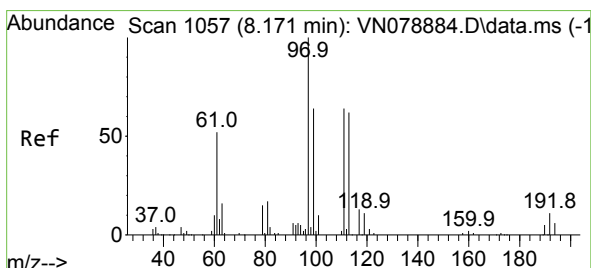
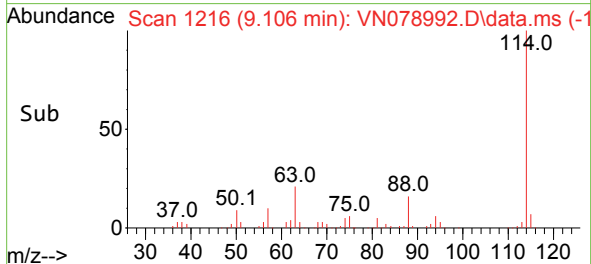
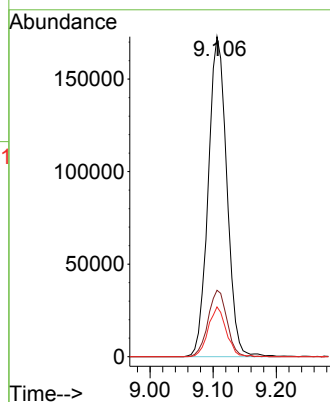
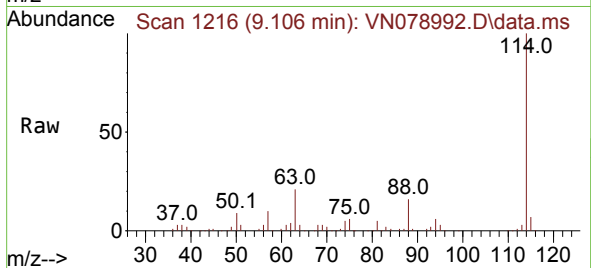
Tgt Ion:114 Resp: 353997

Ion Ratio Lower Upper

114 100

63 20.8 0.0 36.4

88 15.5 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.901 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN078992.D

Acq: 22 Aug 2023 14:23

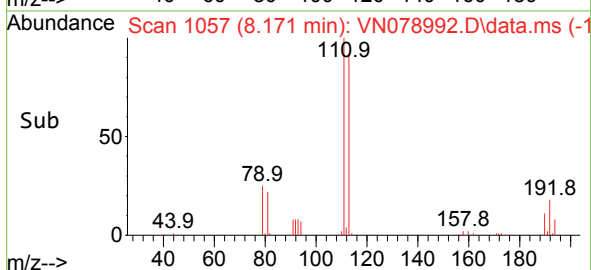
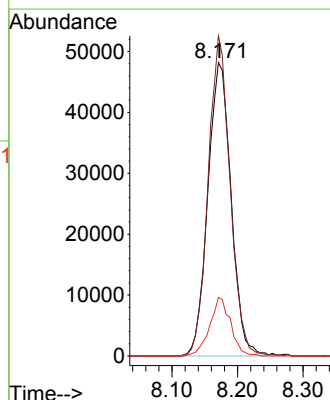
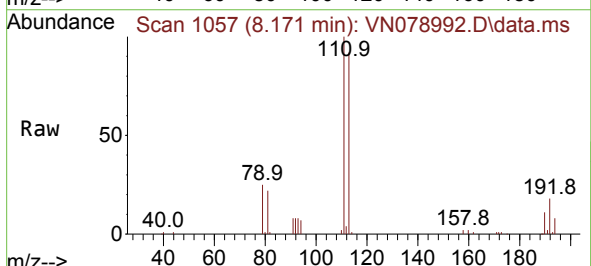
Tgt Ion:113 Resp: 118911

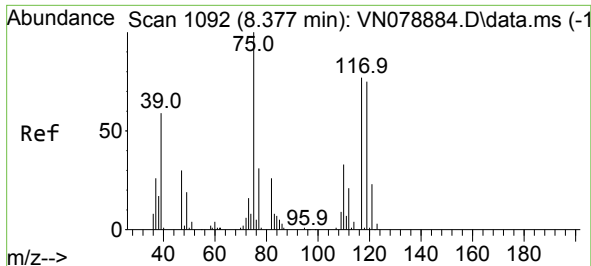
Ion Ratio Lower Upper

113 100

111 102.7 82.6 123.8

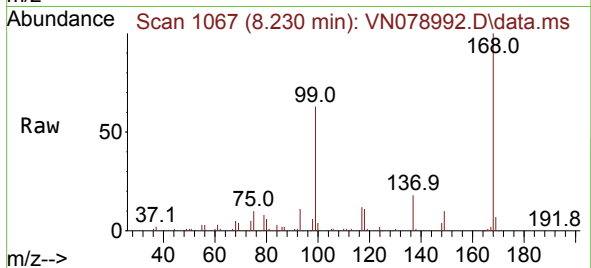
192 17.9 12.7 19.1



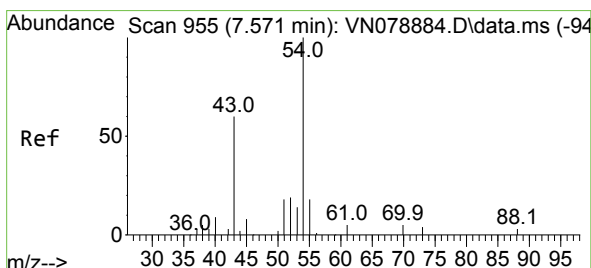
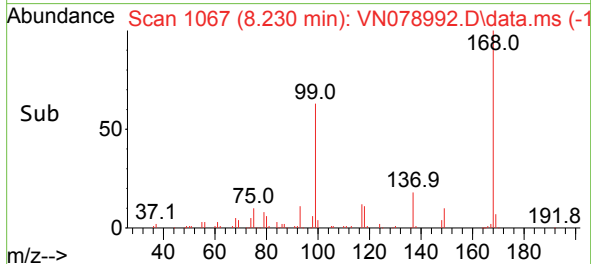
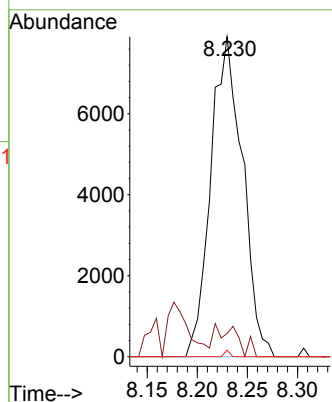


#36  
 1,1-Dichloropropene  
 Concen: 4.868 ug/l  
 RT: 8.230 min Scan# 1067  
 Delta R.T. -0.147 min  
 Lab File: VN078992.D  
 Acq: 22 Aug 2023 14:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :

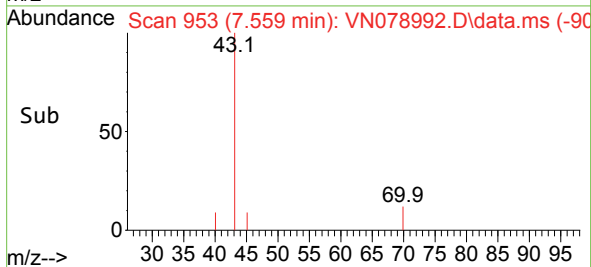
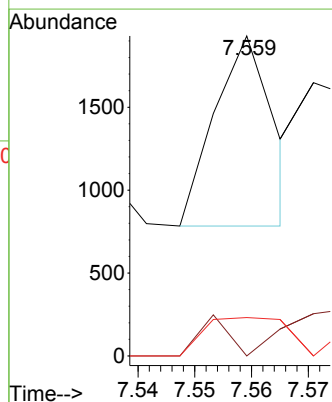
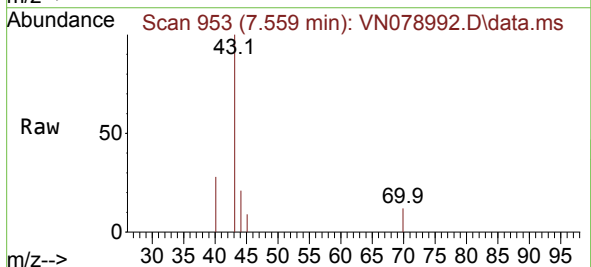


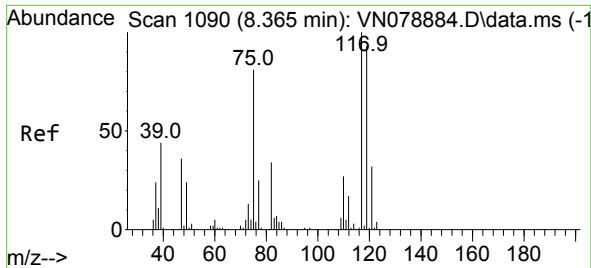
Tgt Ion: 75 Resp: 17449  
 Ion Ratio Lower Upper  
 75 100  
 110 7.2 19.1 57.3#  
 77 0.3 25.0 37.4#



#37  
 Ethyl Acetate  
 Concen: 0.207 ug/l  
 RT: 7.559 min Scan# 953  
 Delta R.T. -0.012 min  
 Lab File: VN078992.D  
 Acq: 22 Aug 2023 14:23

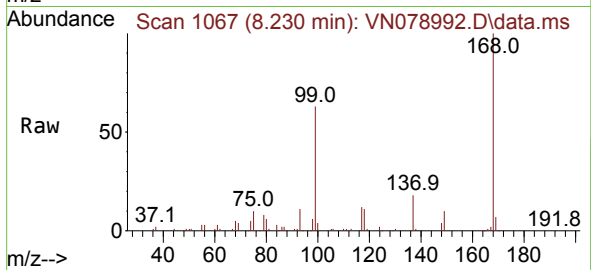
Tgt Ion: 43 Resp: 829  
 Ion Ratio Lower Upper  
 43 100  
 61 10.6 13.2 19.8#  
 70 28.6 11.3 16.9#



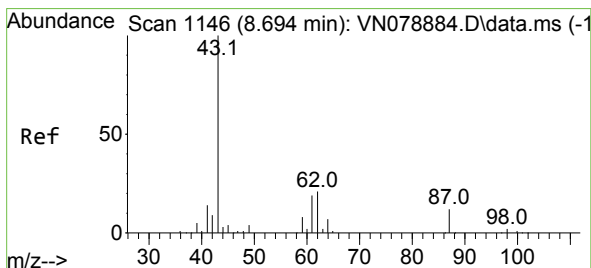
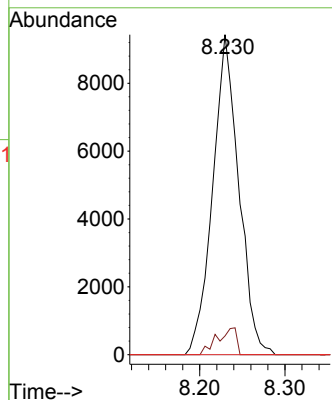
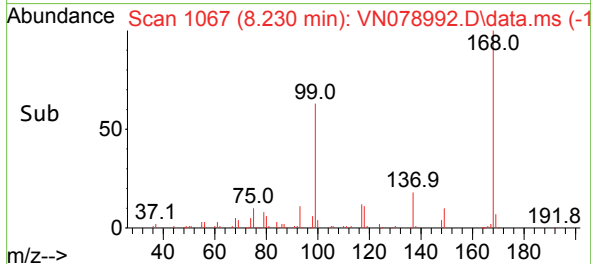


#38  
Carbon Tetrachloride  
Concen: 5.580 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.141 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23

Instrument :  
MSVOA\_N  
ClientSampleId :

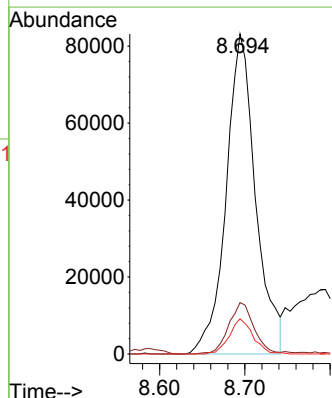
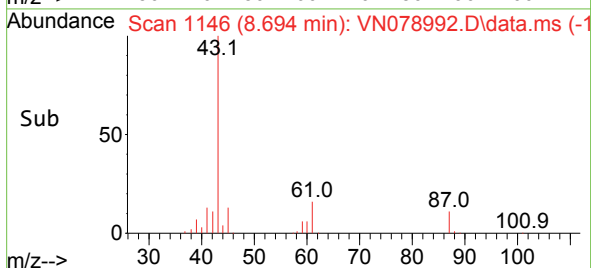
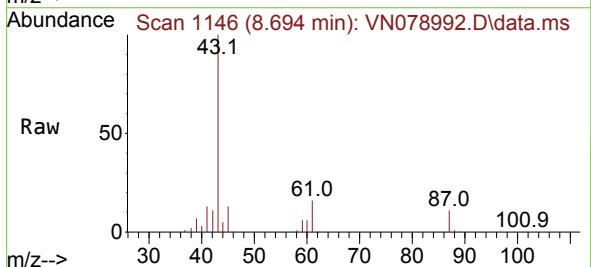


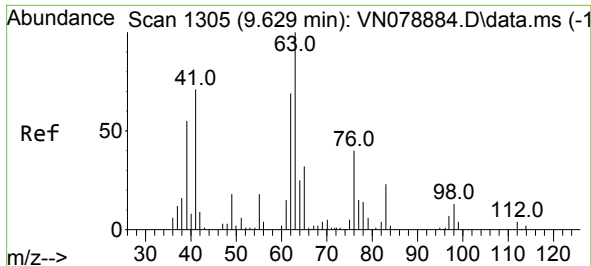
Tgt Ion:117 Resp: 20041  
Ion Ratio Lower Upper  
117 100  
119 5.8 77.3 115.9#  
121 0.0 23.3 34.9#



#43  
Isopropyl Acetate  
Concen: 28.229 ug/l  
RT: 8.694 min Scan# 1146  
Delta R.T. 0.000 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23

Tgt Ion: 43 Resp: 200106  
Ion Ratio Lower Upper  
43 100  
61 13.7 24.7 37.1#  
87 8.8 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.570 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN078992.D

Acq: 22 Aug 2023 14:23

Instrument :

MSVOA\_N

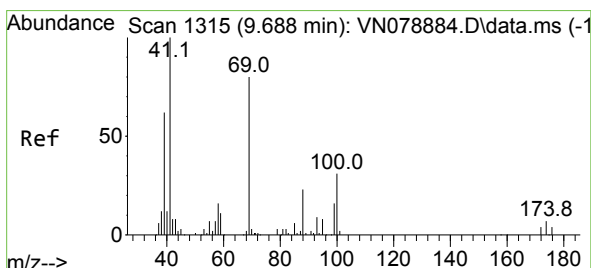
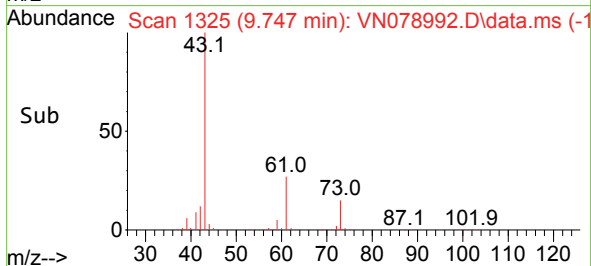
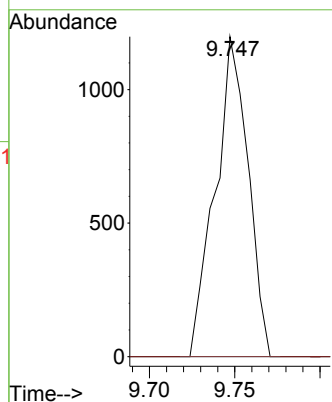
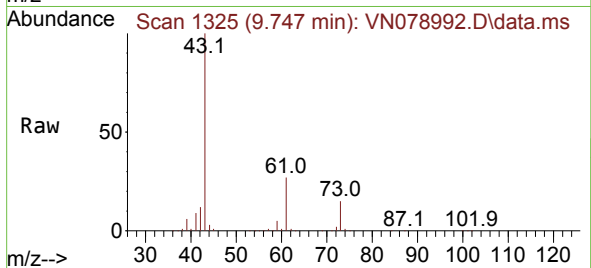
ClientSampleId :

Tgt Ion: 63 Resp: 1608

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 1.466 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.023 min

Lab File: VN078992.D

Acq: 22 Aug 2023 14:23

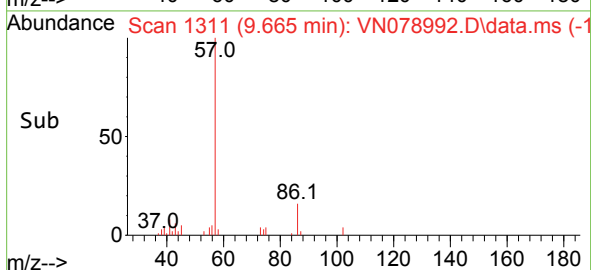
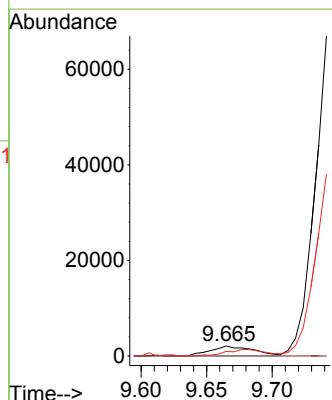
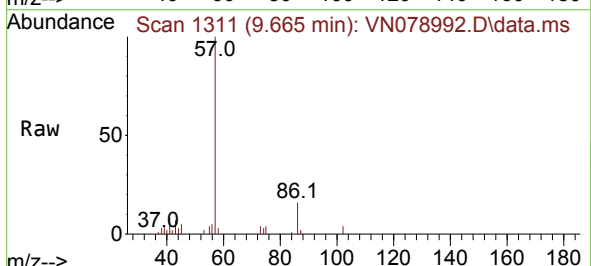
Tgt Ion: 41 Resp: 4708

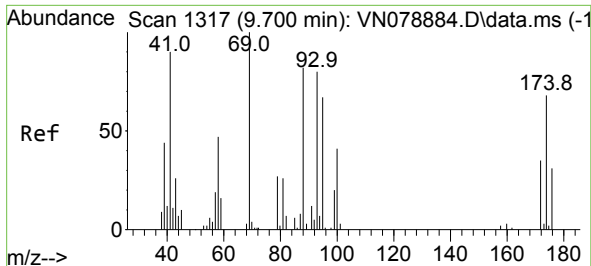
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 61.4 54.6 81.8





#49

1,4-Dioxane

Concen: 1.115 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN078992.D

Acq: 22 Aug 2023 14:23

Instrument :

MSVOA\_N

ClientSampleId :

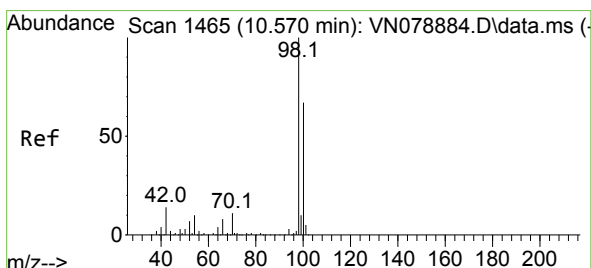
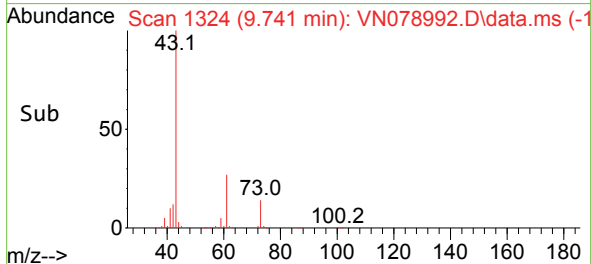
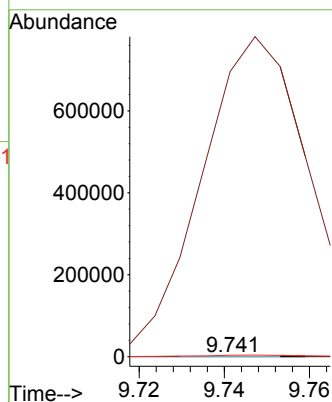
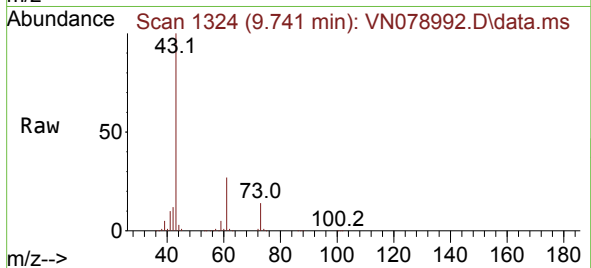
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 2335562.3 17.0 25.6#

58 11750.8 47.0 70.4#



#50

Toluene-d8

Concen: 50.231 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078992.D

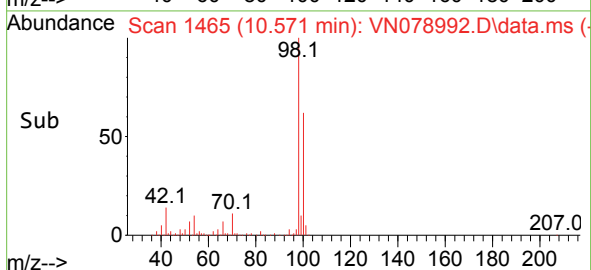
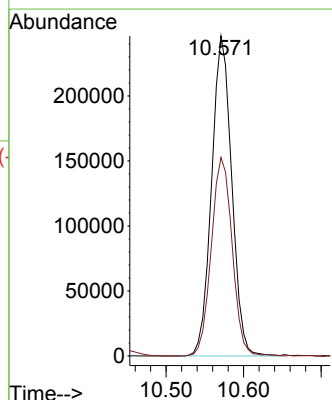
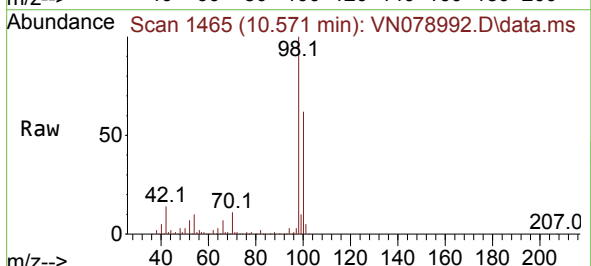
Acq: 22 Aug 2023 14:23

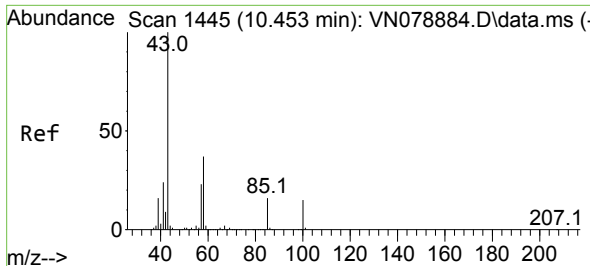
Tgt Ion: 98 Resp: 444445

Ion Ratio Lower Upper

98 100

100 64.2 52.0 78.0

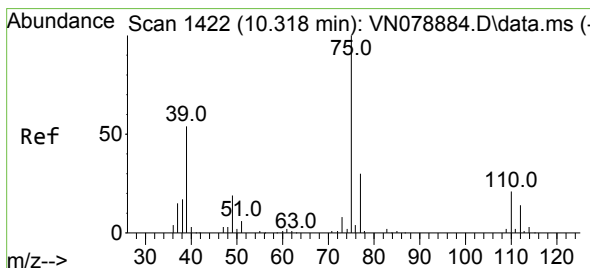
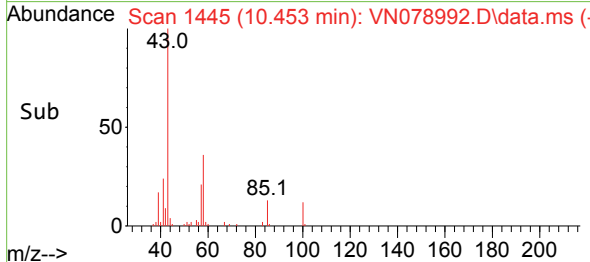
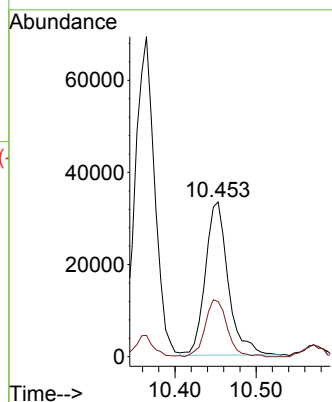
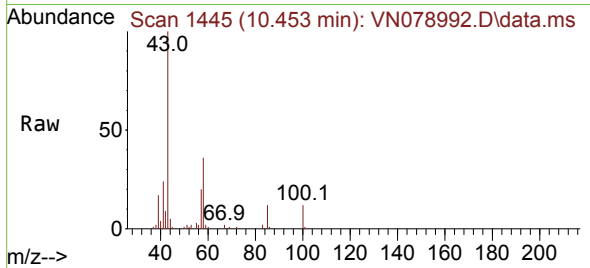




#51  
4-Methyl-2-Pentanone  
Concen: 15.440 ug/l  
RT: 10.453 min Scan# 1445  
Delta R.T. 0.000 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23

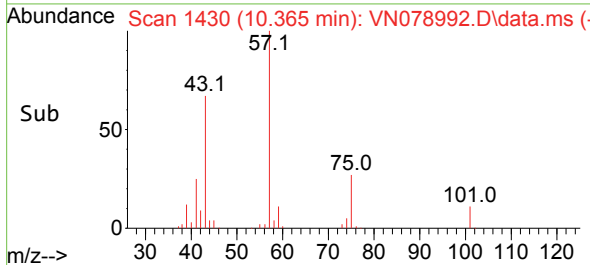
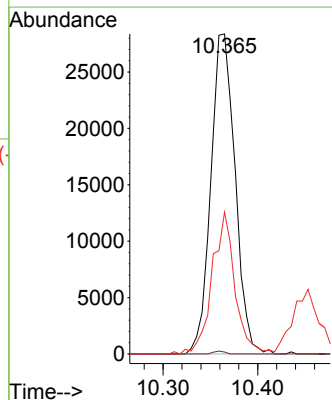
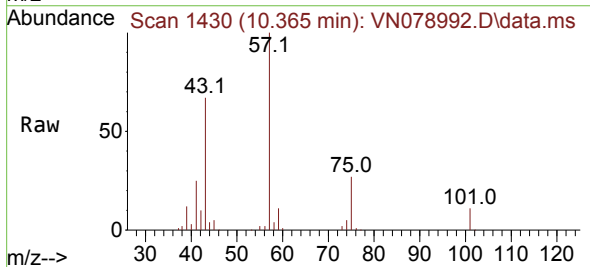
Instrument :  
MSVOA\_N  
ClientSampleId :

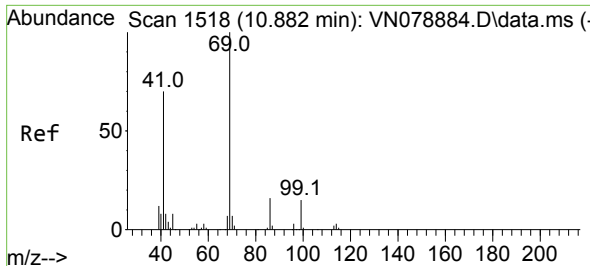
Tgt Ion: 43 Resp: 64915  
Ion Ratio Lower Upper  
43 100  
58 35.9 36.6 54.8#



#54  
cis-1,3-Dichloropropene  
Concen: 11.325 ug/l  
RT: 10.365 min Scan# 1430  
Delta R.T. 0.047 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23

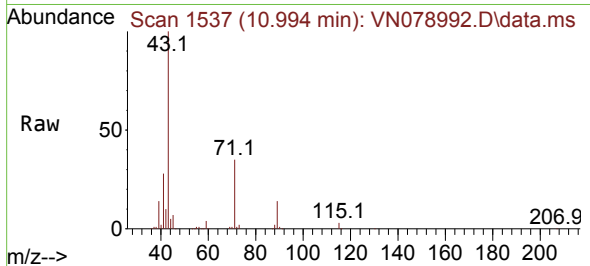
Tgt Ion: 75 Resp: 50535  
Ion Ratio Lower Upper  
75 100  
77 0.6 26.1 39.1#  
39 44.4 31.6 47.4



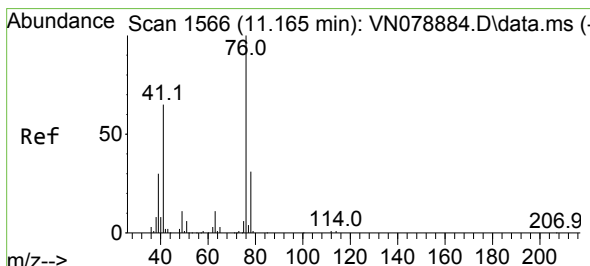
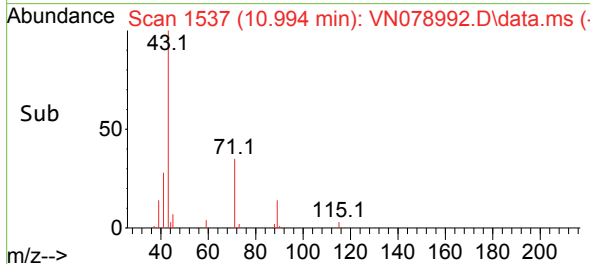
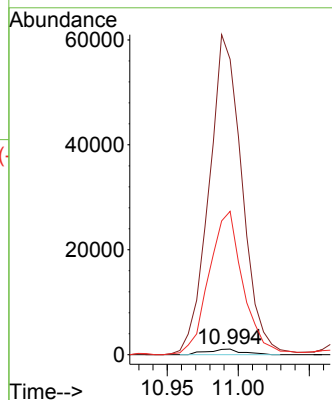


#56  
Ethyl methacrylate  
Concen: 0.445 ug/l  
RT: 10.994 min Scan# 1537  
Delta R.T. 0.117 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23

Instrument :  
MSVOA\_N  
ClientSampleId :

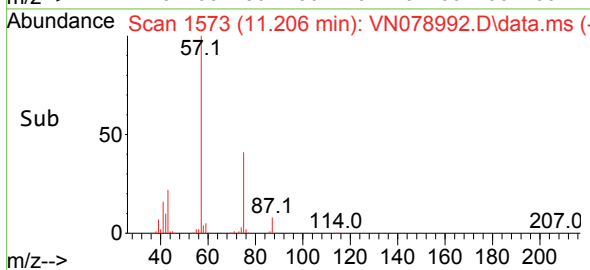
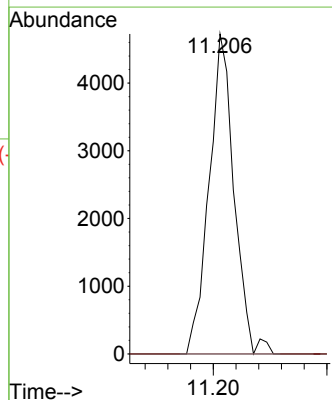
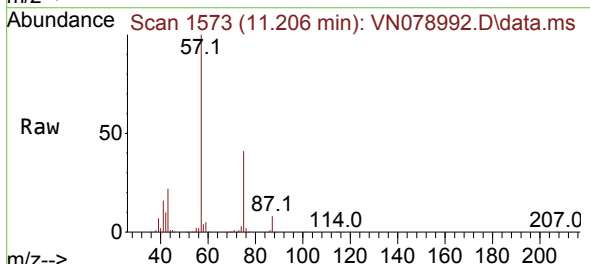


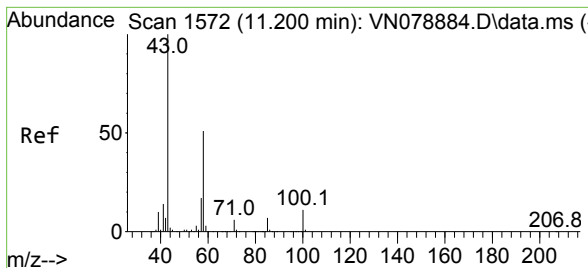
Tgt Ion: 69 Resp: 1799  
Ion Ratio Lower Upper  
69 100  
41 5484.7 39.6 59.4#  
39 2546.1 28.6 43.0#



#57  
1,3-Dichloropropane  
Concen: 1.546 ug/l  
RT: 11.206 min Scan# 1573  
Delta R.T. 0.041 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23

Tgt Ion: 76 Resp: 7211  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.1 39.1#

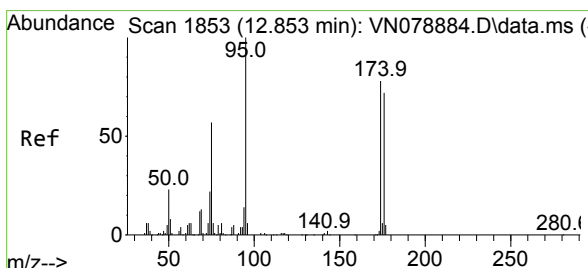
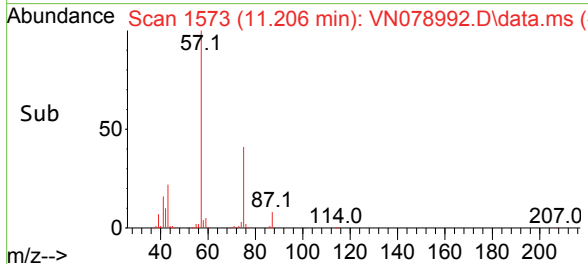
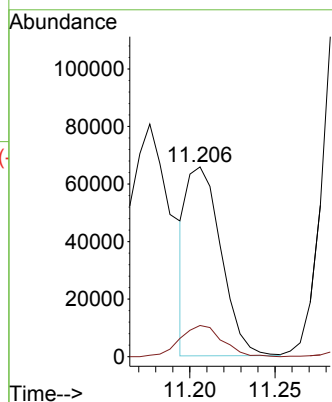
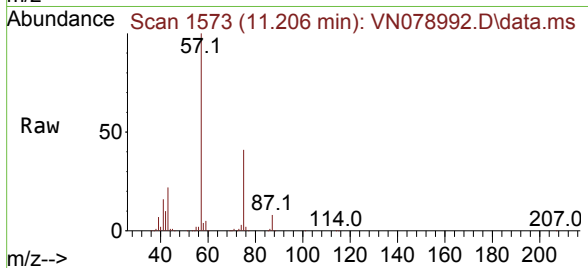




#59  
2-Hexanone  
Concen: 29.953 ug/l  
RT: 11.206 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23

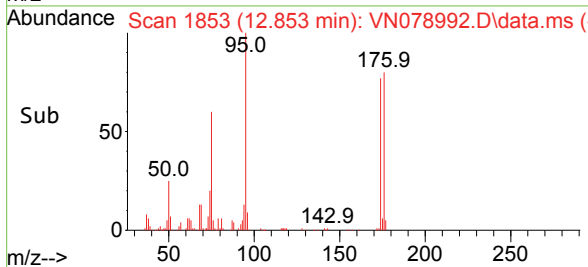
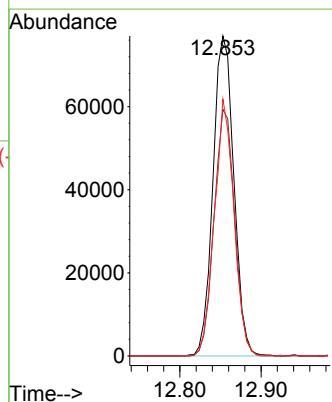
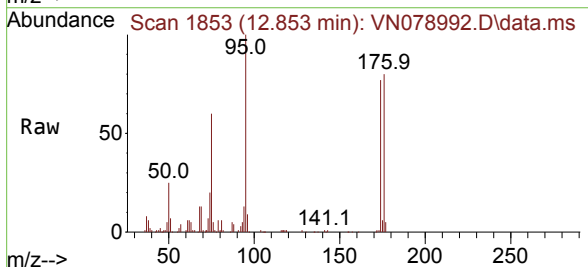
Instrument :  
MSVOA\_N  
ClientSampleId :

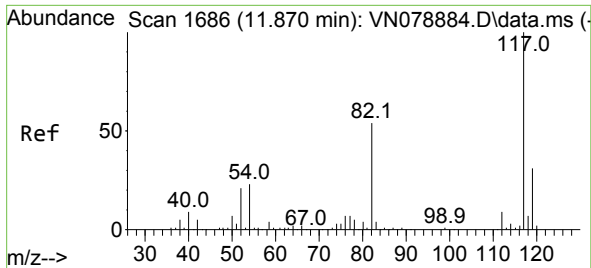
Tgt Ion: 43 Resp: 91212  
Ion Ratio Lower Upper  
43 100  
58 20.6 31.7 95.1#



#62  
4-Bromofluorobenzene  
Concen: 47.537 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.000 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23

Tgt Ion: 95 Resp: 137479  
Ion Ratio Lower Upper  
95 100  
174 76.5 0.0 143.8  
176 75.0 0.0 135.8

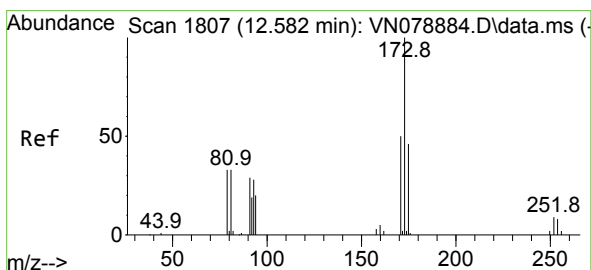
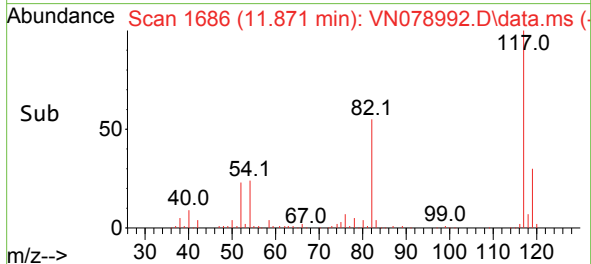
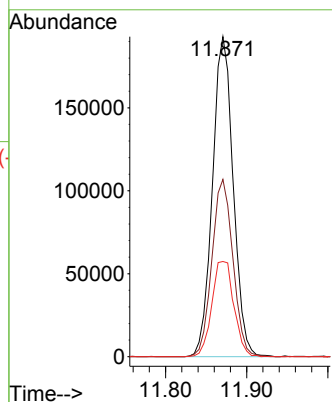
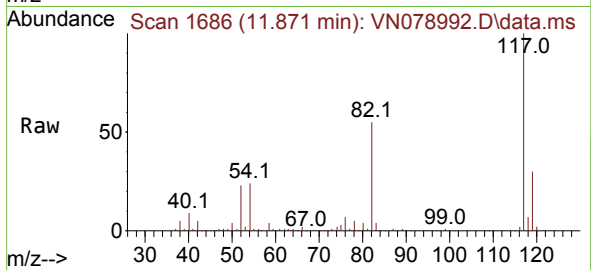




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23

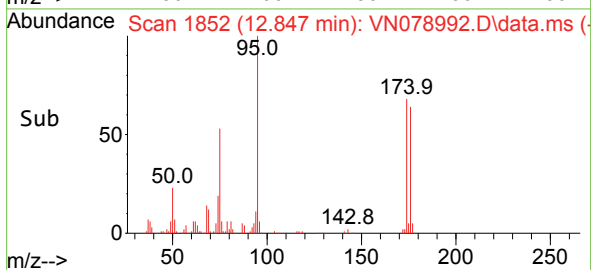
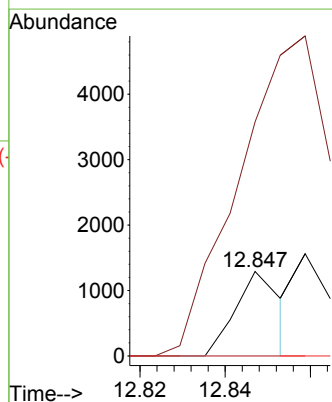
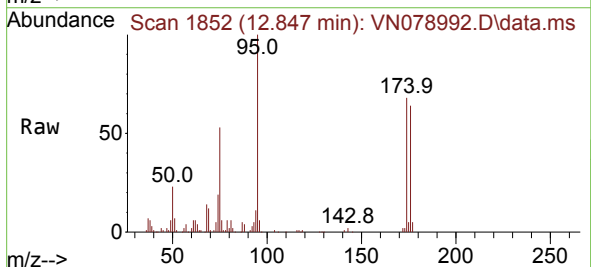
Instrument :  
MSVOA\_N  
ClientSampleId :

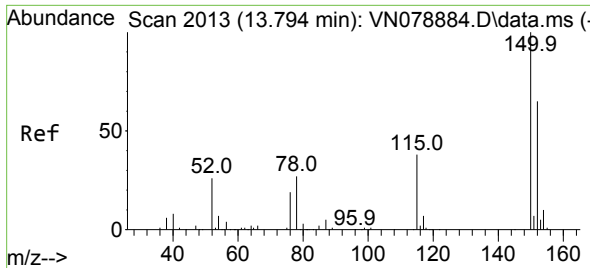
Tgt Ion:117 Resp: 342312  
Ion Ratio Lower Upper  
117 100  
82 55.4 44.0 66.0  
119 29.7 25.6 38.4



#71  
Bromoform  
Concen: 0.481 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.265 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23

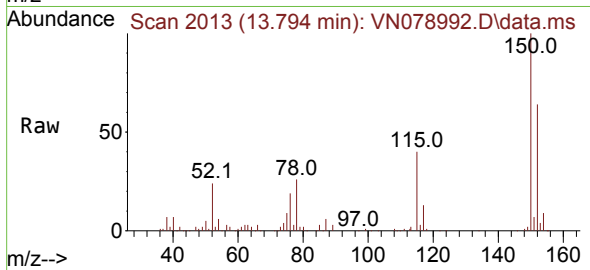
Tgt Ion:173 Resp: 962  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.3 73.0#  
254 0.0 0.0 0.0



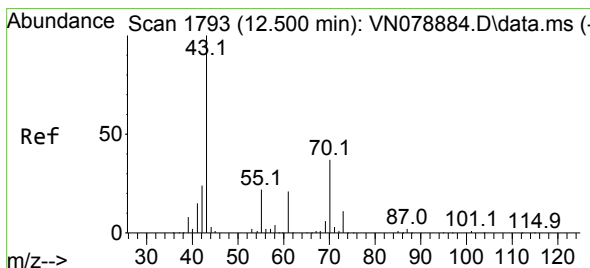
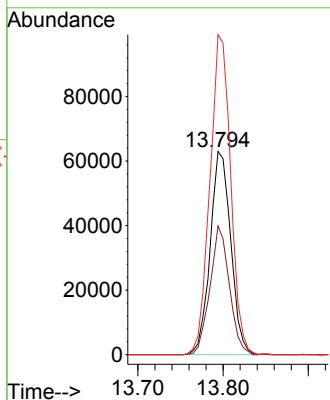
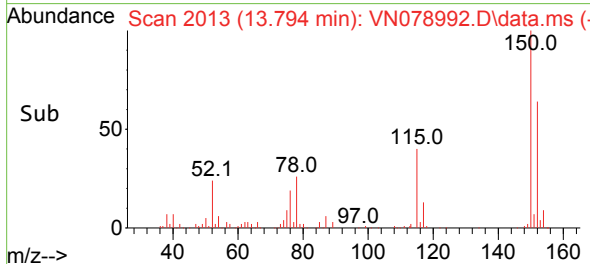


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23

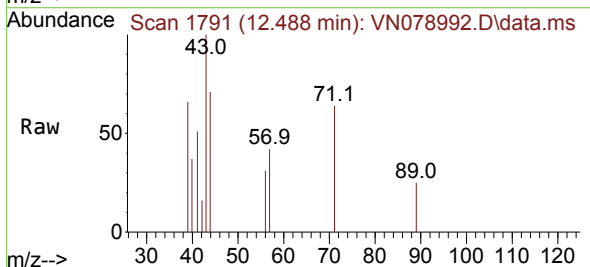
Instrument :  
MSVOA\_N  
ClientSampleId :



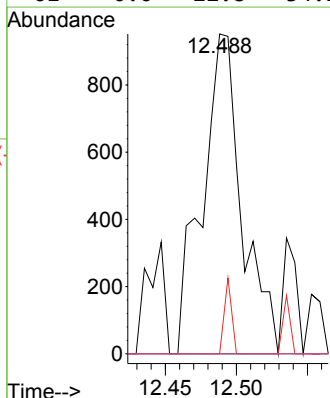
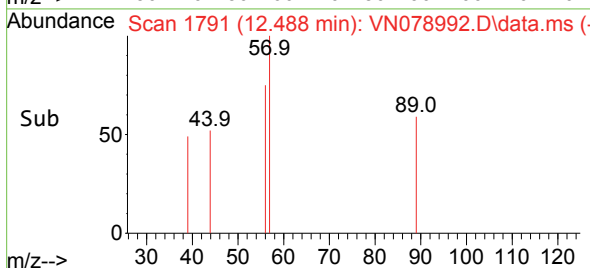
Tgt Ion:152 Resp: 105827  
Ion Ratio Lower Upper  
152 100  
115 59.6 32.3 96.8  
150 158.5 0.0 355.8

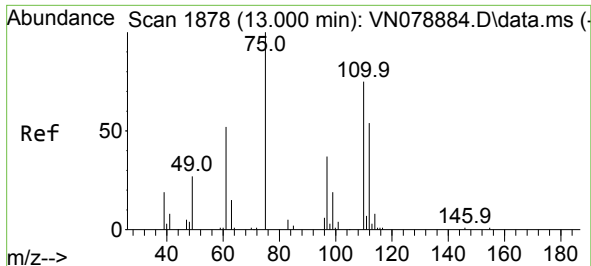


#74  
N-ethyl acetate  
Concen: 0.417 ug/l  
RT: 12.488 min Scan# 1791  
Delta R.T. -0.012 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23



Tgt Ion: 43 Resp: 1857  
Ion Ratio Lower Upper  
43 100  
70 0.0 43.4 65.2#  
55 4.3 21.4 32.0#  
61 0.0 22.8 34.2#

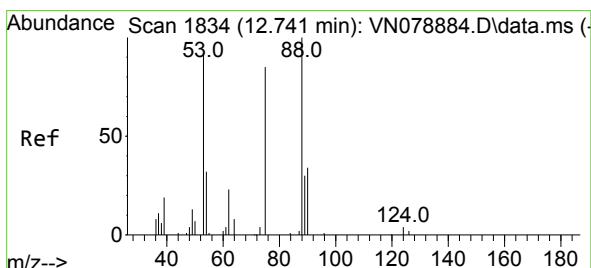
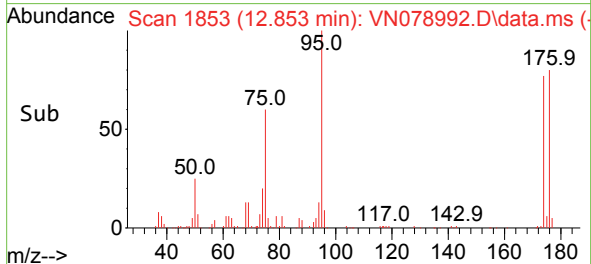
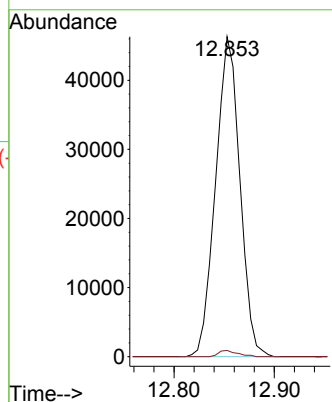
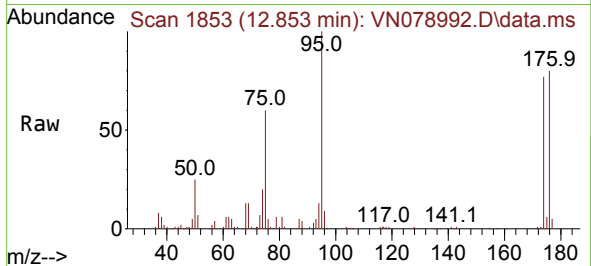




#76  
1,2,3-Trichloropropane  
Concen: 30.498 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.147 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23

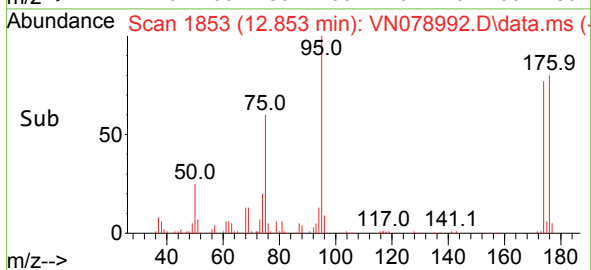
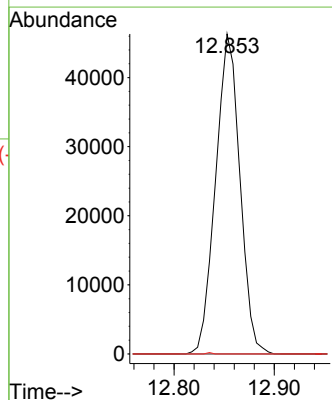
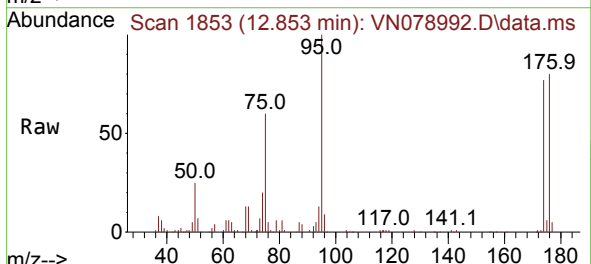
Instrument :  
MSVOA\_N  
ClientSampleId :

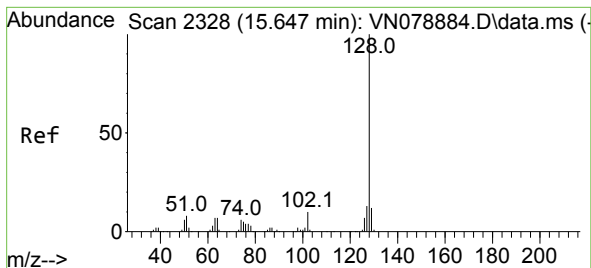
Tgt Ion: 75 Resp: 77768  
Ion Ratio Lower Upper  
75 100  
77 1.6 84.5 253.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 77.910 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.112 min  
Lab File: VN078992.D  
Acq: 22 Aug 2023 14:23

Tgt Ion: 75 Resp: 77768  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.4 101.2#  
89 0.1 38.8 58.2#





#95

Naphthalene

Concen: 2.606 ug/l

RT: 15.647 min Scan# 21

Delta R.T. -0.000 min

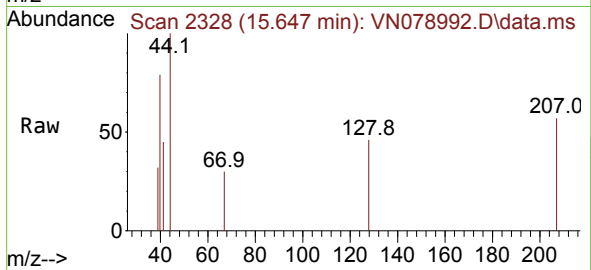
Lab File: VN078992.D

Acq: 22 Aug 2023 14:23

Instrument :

MSVOA\_N

ClientSampleId :



Tgt Ion:128 Resp: 161

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#

