

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN062123\  
 Data File : VN078339.D  
 Acq On : 21 Jun 2023 21:59  
 Operator : JC\MD  
 Sample : 03357-10  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jun 22 04:57:28 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060623W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 07 05:05:00 2023  
 Response via : Initial Calibration

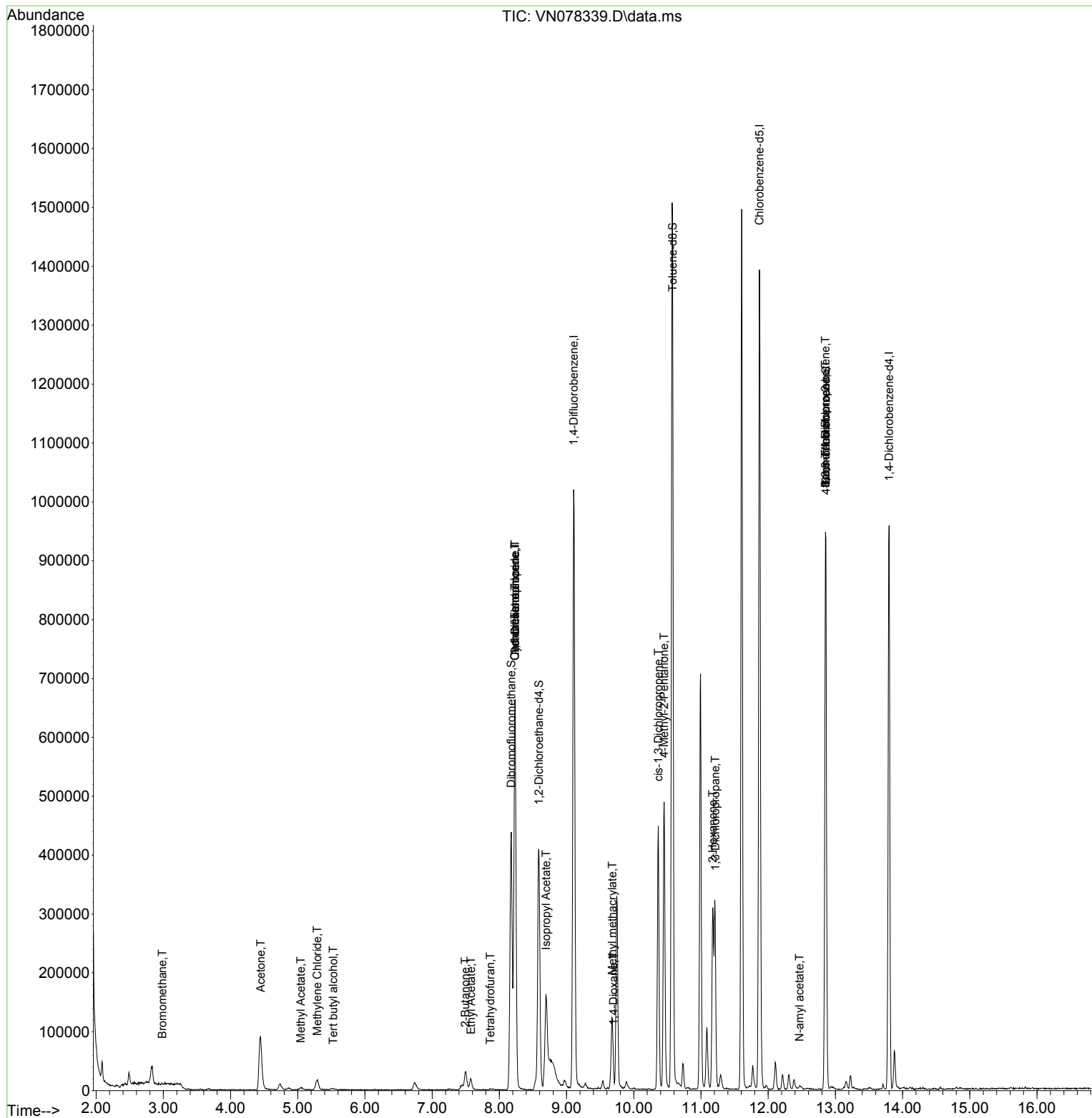
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.236  | 168   | 472731   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 906119   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.871 | 117   | 826698   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.800 | 152   | 259522   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.588  | 65    | 340373   | 54.002    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 108.000% |          |
| 35) Dibromofluoromethane      | 8.177  | 113   | 309538   | 54.027    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 108.060% |          |
| 50) Toluene-d8                | 10.577 | 98    | 1085301  | 49.138    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 98.280%  |          |
| 62) 4-Bromofluorobenzene      | 12.859 | 95    | 339832   | 49.493    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 98.980%  |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 3) Chloromethane              | 2.383  | 50    | 1462     | Below Cal |            | 99       |
| 5) Bromomethane               | 2.983  | 94    | 1069     | 0.202     | ug/l       | 99       |
| 11) Tert butyl alcohol        | 5.530  | 59    | 1443     | 1.658     | ug/l #     | 72       |
| 16) Acetone                   | 4.448  | 43    | 172879   | 95.291    | ug/l       | 98       |
| 18) Methyl Acetate            | 5.048  | 43    | 8876     | 1.063     | ug/l #     | 57       |
| 20) Methylene Chloride        | 5.289  | 84    | 13404    | 2.236     | ug/l #     | 86       |
| 25) 2-Butanone                | 7.494  | 43    | 49129    | 17.610    | ug/l #     | 79       |
| 29) Tetrahydrofuran           | 7.865  | 42    | 1002     | 0.537     | ug/l #     | 43       |
| 31) Cyclohexane               | 8.230  | 56    | 11585    | 1.433     | ug/l #     | 32       |
| 36) 1,1-Dichloropropene       | 8.236  | 75    | 40816    | 4.967     | ug/l #     | 48       |
| 37) Ethyl Acetate             | 7.577  | 43    | 26613    | 4.145     | ug/l       | 96       |
| 38) Carbon Tetrachloride      | 8.230  | 117   | 53288    | 6.141     | ug/l #     | 16       |
| 43) Isopropyl Acetate         | 8.694  | 43    | 215187   | 17.527    | ug/l #     | 72       |
| 48) Methyl methacrylate       | 9.682  | 41    | 6931     | 1.345     | ug/l #     | 34       |
| 49) 1,4-Dioxane               | 9.700  | 88    | 55       | 0.508     | ug/l #     | 30       |
| 51) 4-Methyl-2-Pentanone      | 10.453 | 43    | 321794   | 49.772    | ug/l       | 91       |
| 54) cis-1,3-Dichloropropene   | 10.365 | 75    | 79014    | 8.218     | ug/l #     | 69       |
| 57) 1,3-Dichloropropane       | 11.212 | 76    | 3879     | 0.392     | ug/l #     | 42       |
| 59) 2-Hexanone                | 11.177 | 43    | 277099   | 61.554    | ug/l #     | 19       |
| 71) Bromoform                 | 12.853 | 173   | 2494     | 0.593     | ug/l #     | 1        |
| 74) N-amyl acetate            | 12.465 | 43    | 2919     | 0.361     | ug/l #     | 38       |
| 75) 1,1,2,2-Tetrachloroethane | 12.970 | 83    | 893      | Below Cal | #          | 57       |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 185062   | 30.164    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 185062   | 92.673    | ug/l #     | 15       |

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

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Quant Title : SW846 8260  
QLast Update : Wed Jun 07 05:05:00 2023  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 1

Delta R.T. 0.001 min

Lab File: VN078339.D

Acq: 21 Jun 2023 21:59

Instrument :

MSVOA\_N

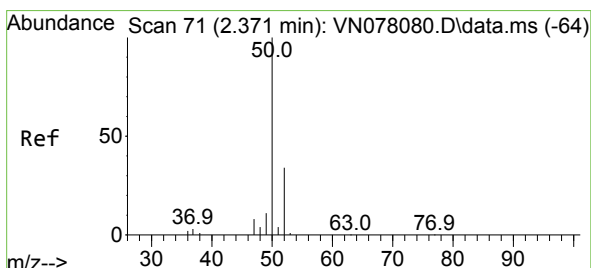
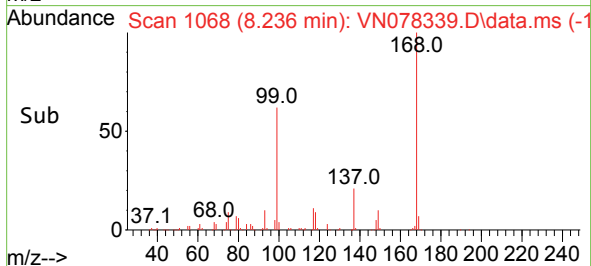
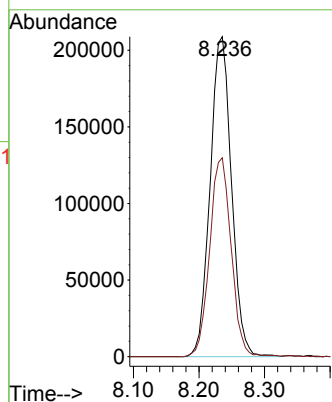
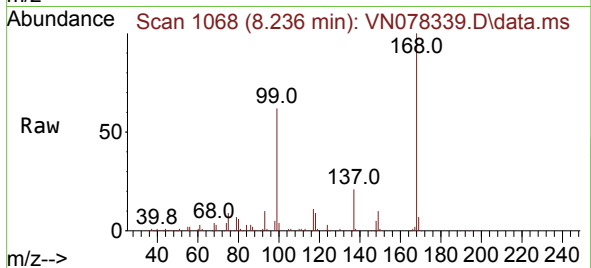
ClientSampleId :

Tgt Ion:168 Resp: 472731

Ion Ratio Lower Upper

168 100

99 62.1 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.383 min Scan# 73

Delta R.T. 0.012 min

Lab File: VN078339.D

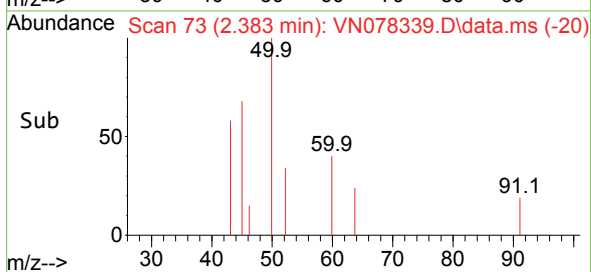
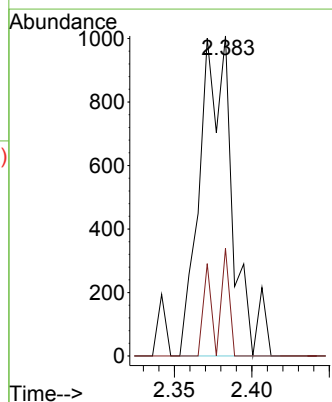
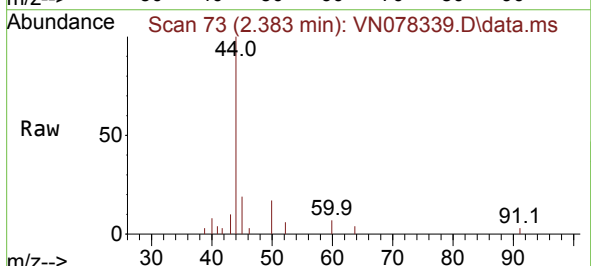
Acq: 21 Jun 2023 21:59

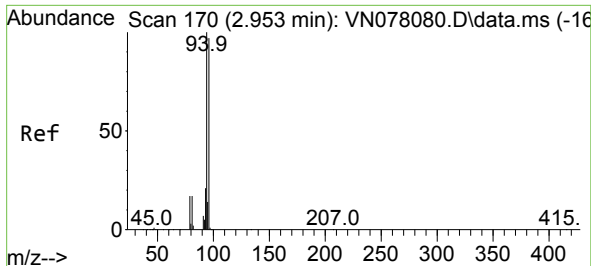
Tgt Ion: 50 Resp: 1462

Ion Ratio Lower Upper

50 100

52 33.6 26.5 39.7

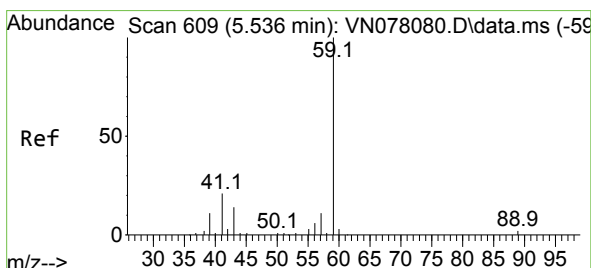
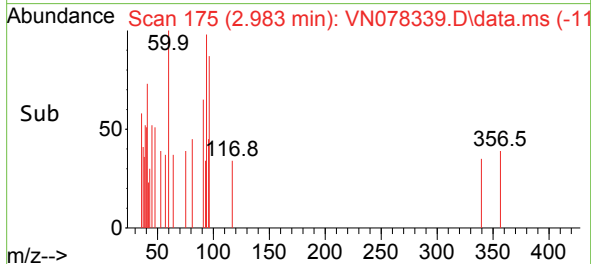
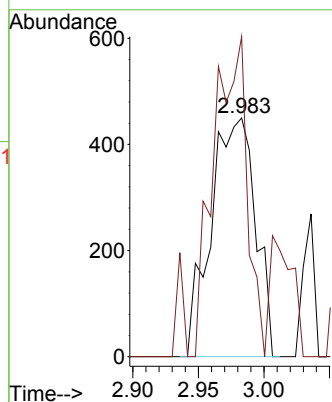
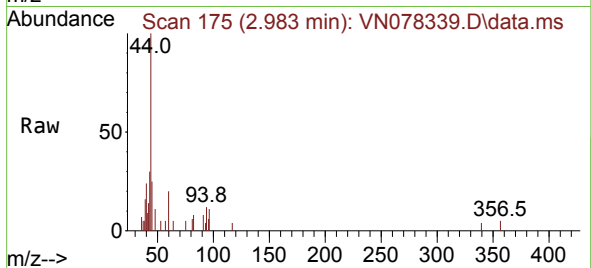




#5  
Bromomethane  
Concen: 0.202 ug/l  
RT: 2.983 min Scan# 11  
Delta R.T. 0.030 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59

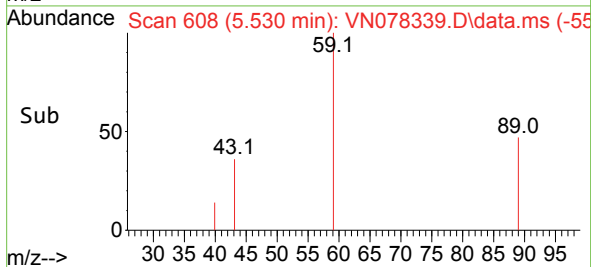
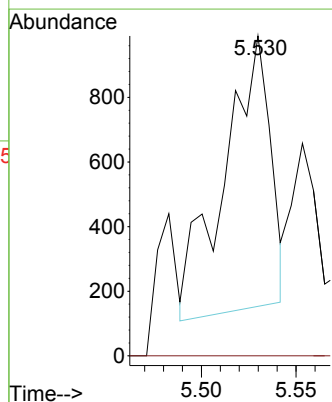
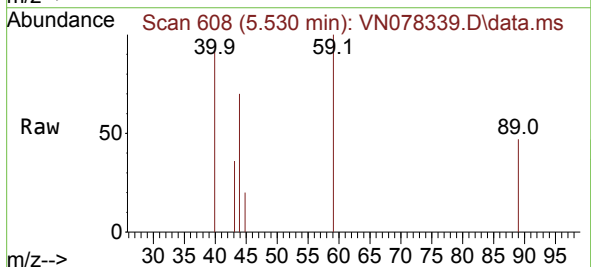
Instrument :  
MSVOA\_N  
ClientSampleId :

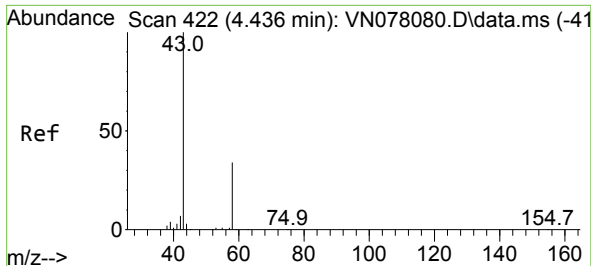
Tgt Ion: 94 Resp: 1069  
Ion Ratio Lower Upper  
94 100  
96 90.4 73.1 109.7



#11  
Tert butyl alcohol  
Concen: 1.658 ug/l  
RT: 5.530 min Scan# 608  
Delta R.T. -0.006 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59

Tgt Ion: 59 Resp: 1443  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#

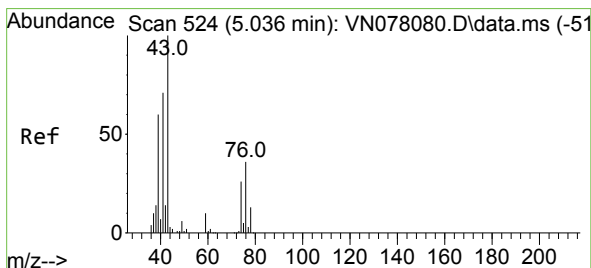
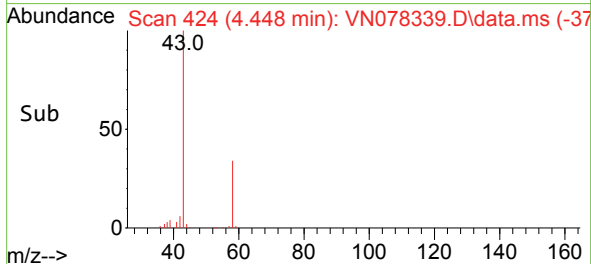
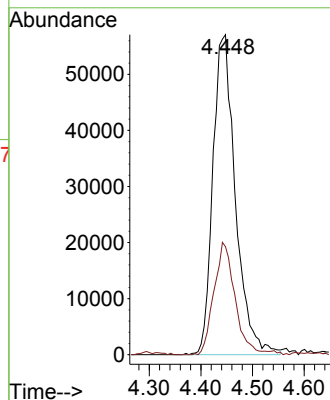
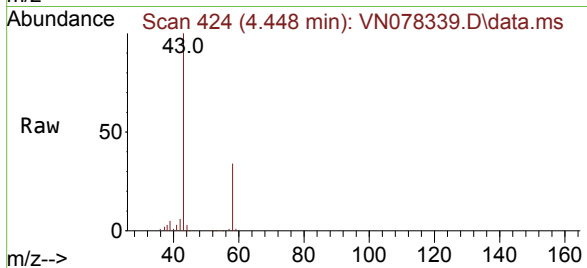




#16  
Acetone  
Concen: 95.291 ug/l  
RT: 4.448 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59

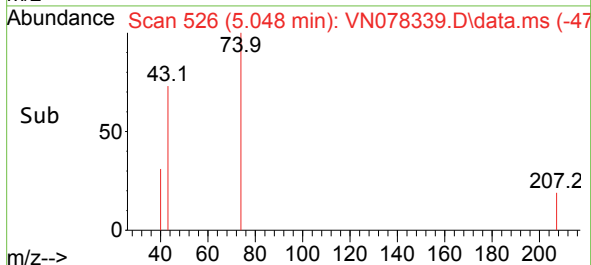
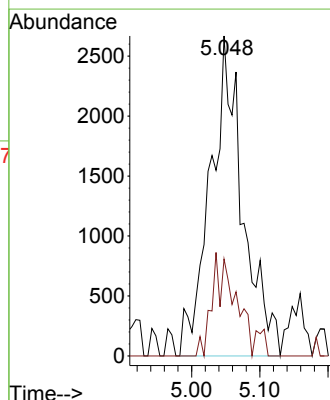
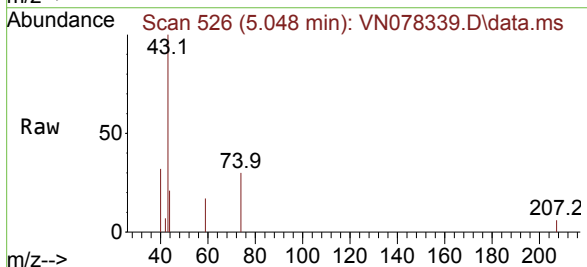
Instrument :  
MSVOA\_N  
ClientSampleId :

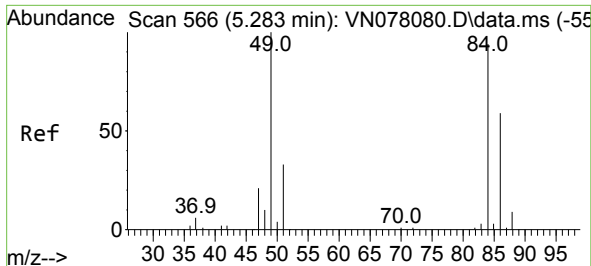
Tgt Ion: 43 Resp: 172879  
Ion Ratio Lower Upper  
43 100  
58 33.8 28.0 42.0



#18  
Methyl Acetate  
Concen: 1.063 ug/l  
RT: 5.048 min Scan# 526  
Delta R.T. 0.012 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59

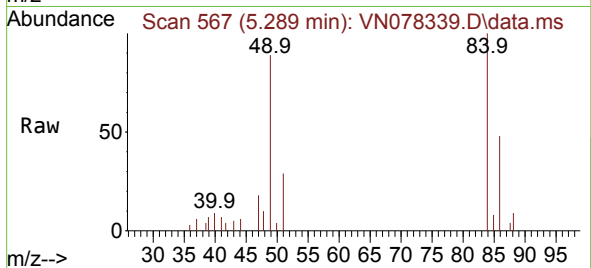
Tgt Ion: 43 Resp: 8876  
Ion Ratio Lower Upper  
43 100  
74 8.7 26.2 39.4#



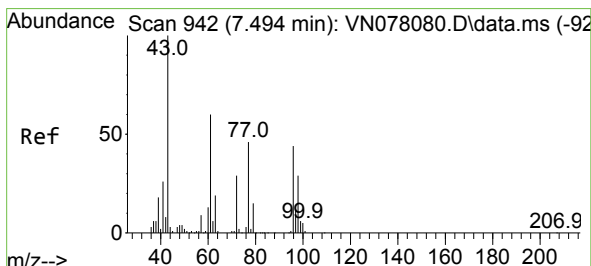
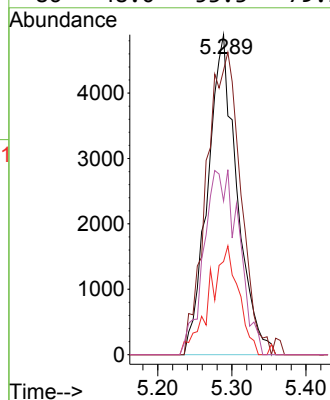
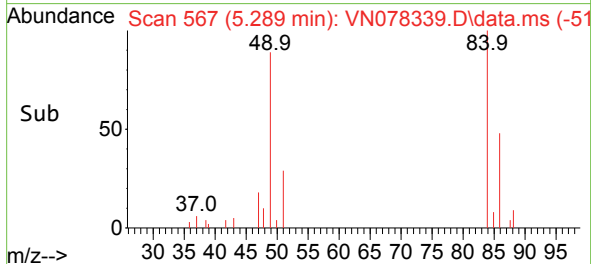


#20  
Methylene Chloride  
Concen: 2.236 ug/l  
RT: 5.289 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59

Instrument :  
MSVOA\_N  
ClientSampleId :

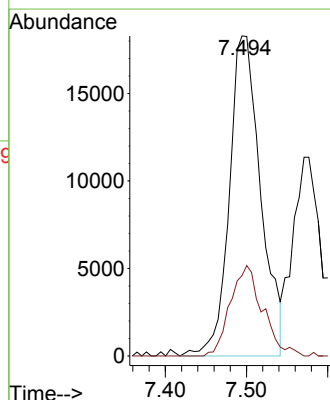
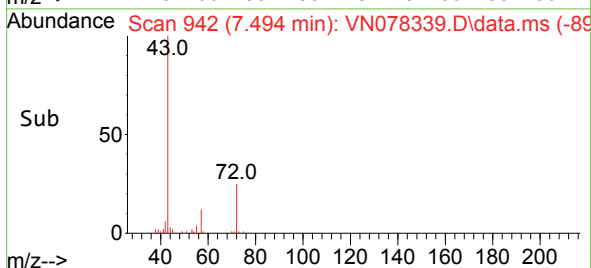
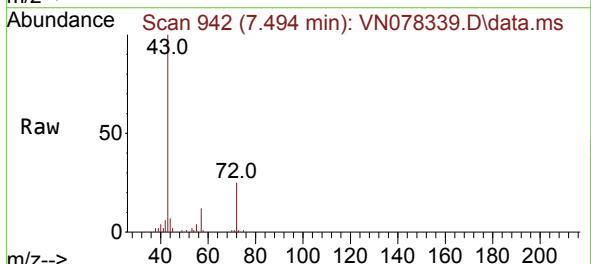


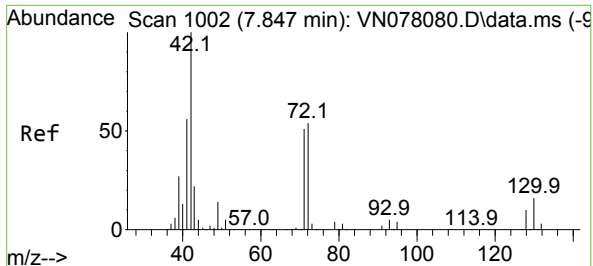
Tgt Ion: 84 Resp: 13404  
Ion Ratio Lower Upper  
84 100  
49 88.9 79.7 119.5  
51 29.1 25.2 37.8  
86 48.0 53.3 79.9#



#25  
2-Butanone  
Concen: 17.610 ug/l  
RT: 7.494 min Scan# 942  
Delta R.T. 0.000 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59

Tgt Ion: 43 Resp: 49129  
Ion Ratio Lower Upper  
43 100  
72 25.1 30.2 45.2#





#29

Tetrahydrofuran

Concen: 0.537 ug/l

RT: 7.865 min Scan# 1005

Delta R.T. 0.018 min

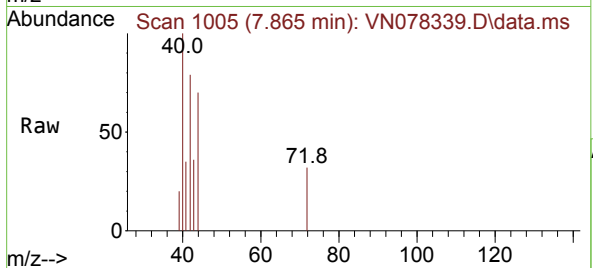
Lab File: VN078339.D

Acq: 21 Jun 2023 21:59

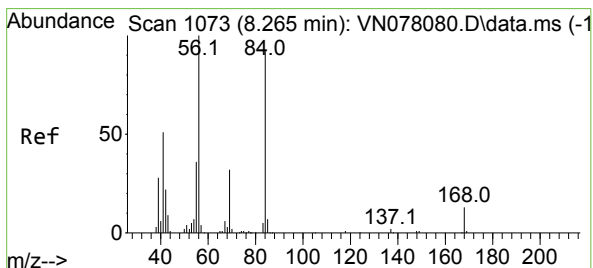
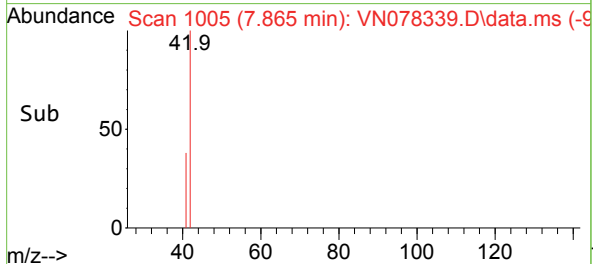
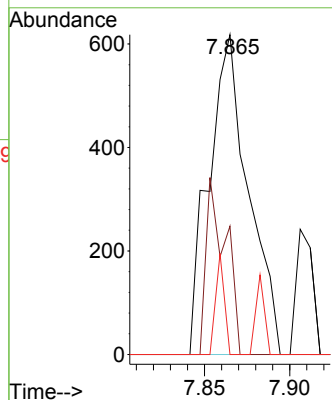
Instrument :

MSVOA\_N

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 1002  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 27.4  | 49.8  | 74.6# |
| 71       | 6.9   | 47.4  | 71.2# |



#31

Cyclohexane

Concen: 1.433 ug/l

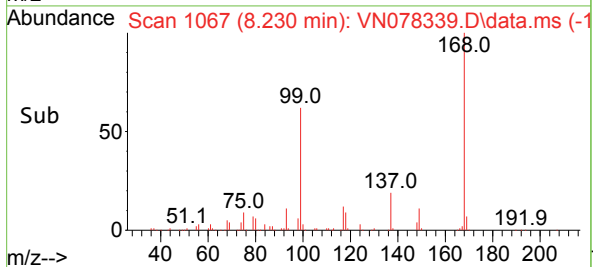
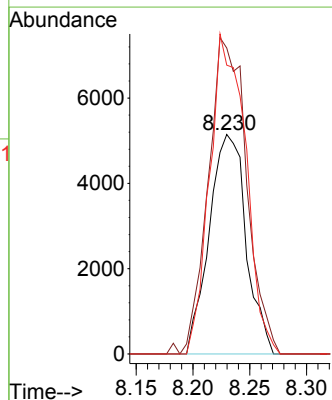
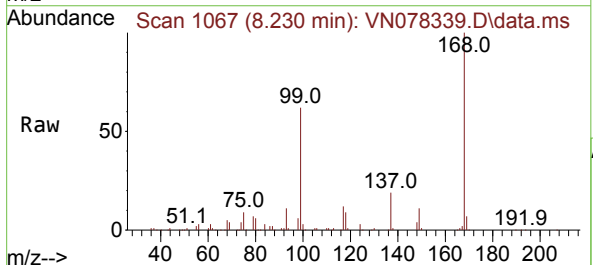
RT: 8.230 min Scan# 1067

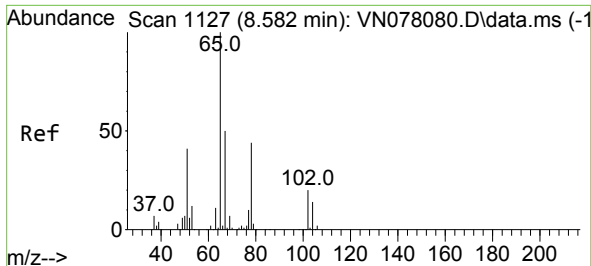
Delta R.T. -0.035 min

Lab File: VN078339.D

Acq: 21 Jun 2023 21:59

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 11585  |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 139.4 | 26.8  | 40.2#  |
| 84       | 131.6 | 81.8  | 122.6# |





#33

1,2-Dichloroethane-d4

Concen: 54.002 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN078339.D

Acq: 21 Jun 2023 21:59

Instrument :

MSVOA\_N

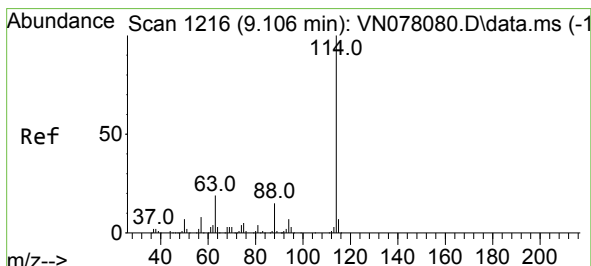
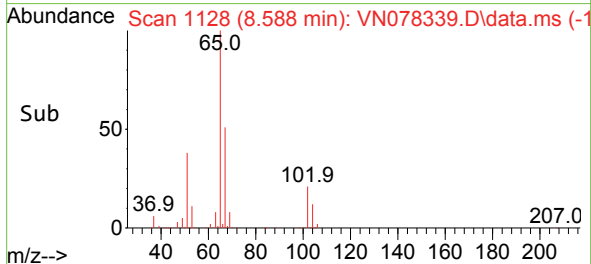
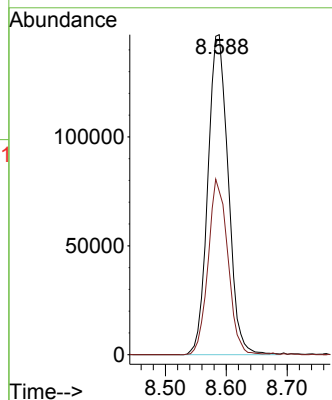
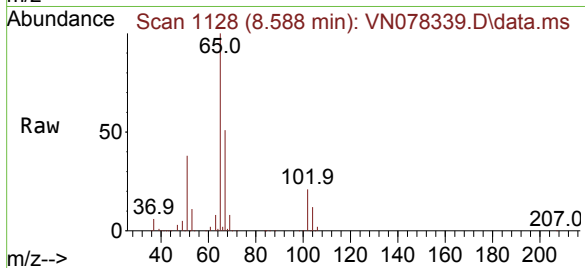
ClientSampleId :

Tgt Ion: 65 Resp: 340373

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN078339.D

Acq: 21 Jun 2023 21:59

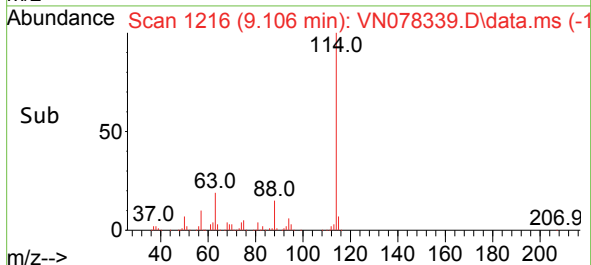
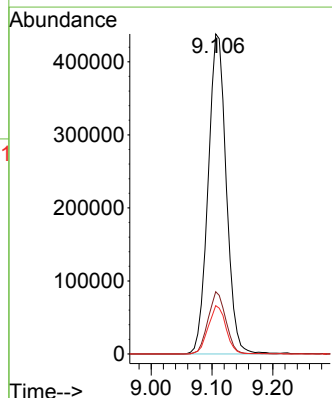
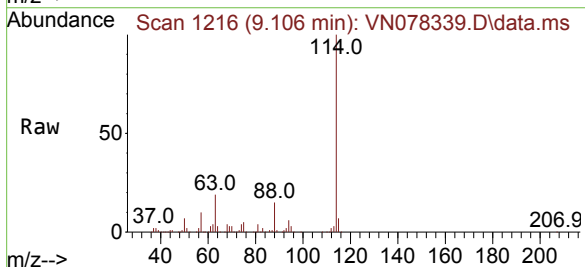
Tgt Ion: 114 Resp: 906119

Ion Ratio Lower Upper

114 100

63 19.5 0.0 36.4

88 15.1 0.0 30.6

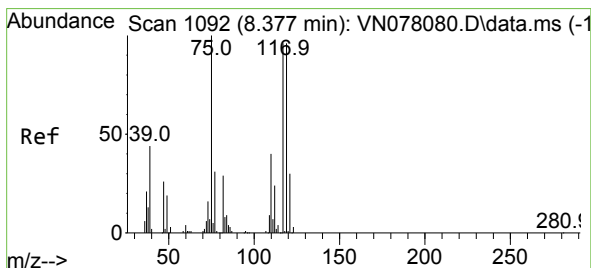
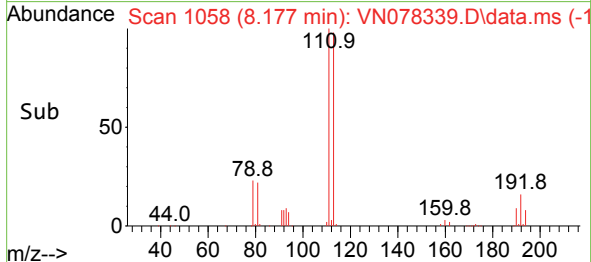
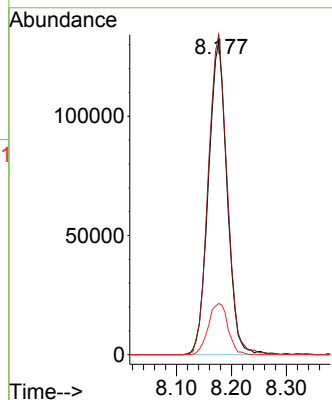
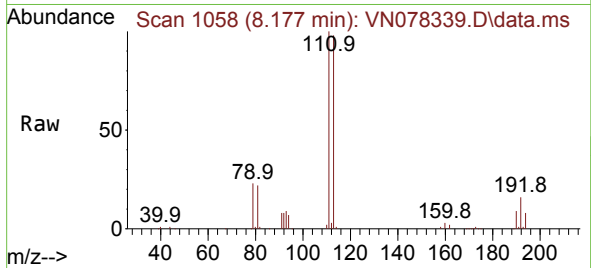




#35  
Dibromofluoromethane  
Concen: 54.027 ug/l  
RT: 8.177 min Scan# 1058  
Delta R.T. 0.000 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59

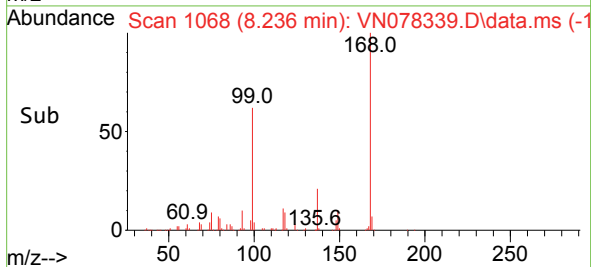
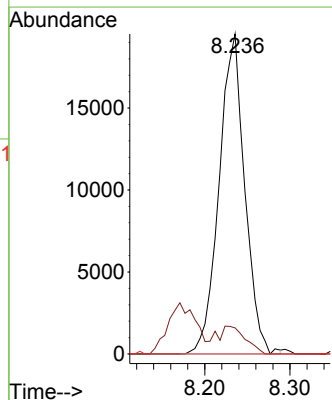
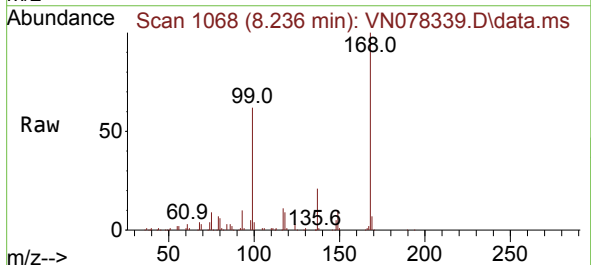
Instrument :  
MSVOA\_N  
ClientSampleId :

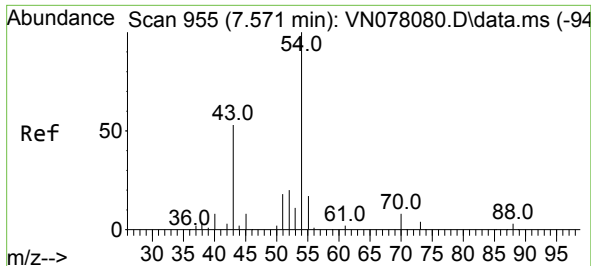
Tgt Ion:113 Resp: 309538  
Ion Ratio Lower Upper  
113 100  
111 103.6 82.6 123.8  
192 17.2 12.7 19.1



#36  
1,1-Dichloropropene  
Concen: 4.967 ug/l  
RT: 8.236 min Scan# 1068  
Delta R.T. -0.141 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59

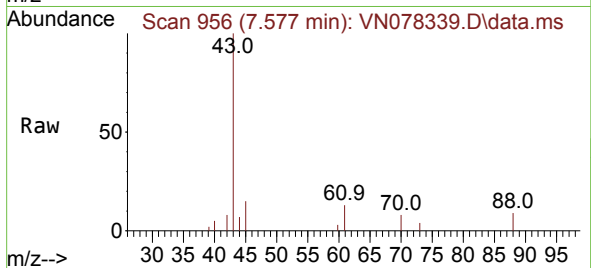
Tgt Ion: 75 Resp: 40816  
Ion Ratio Lower Upper  
75 100  
110 9.3 19.1 57.3#  
77 0.0 25.0 37.4#



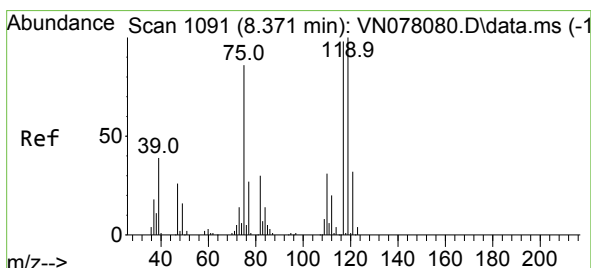
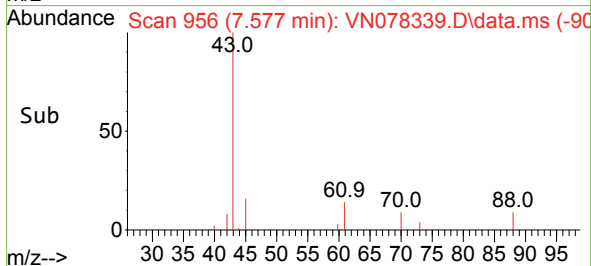
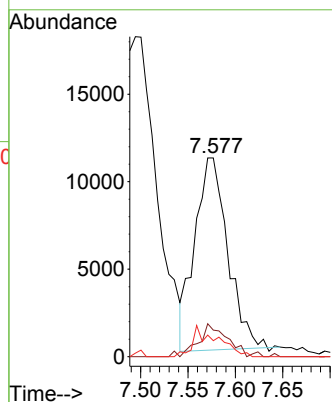


#37  
Ethyl Acetate  
Concen: 4.145 ug/l  
RT: 7.577 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59

Instrument :  
MSVOA\_N  
ClientSampleId :

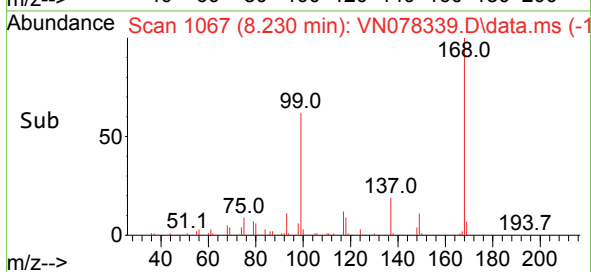
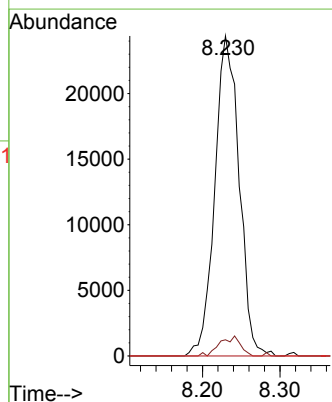
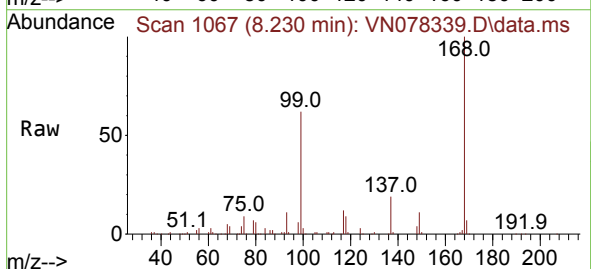


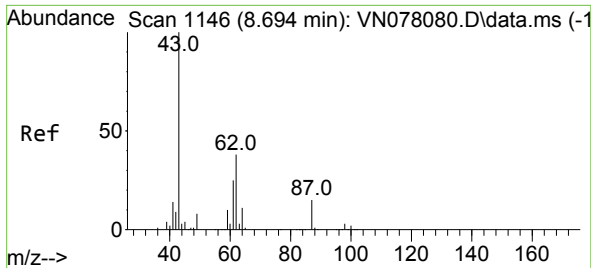
Tgt Ion: 43 Resp: 26613  
Ion Ratio Lower Upper  
43 100  
61 14.9 13.2 19.8  
70 12.1 11.3 16.9



#38  
Carbon Tetrachloride  
Concen: 6.141 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.141 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59

Tgt Ion: 117 Resp: 53288  
Ion Ratio Lower Upper  
117 100  
119 5.0 77.3 115.9#  
121 0.0 23.3 34.9#

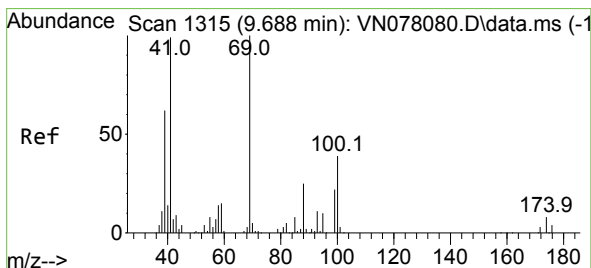
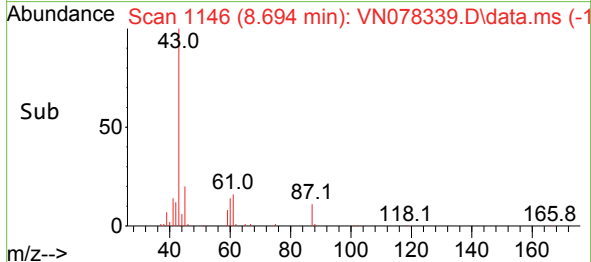
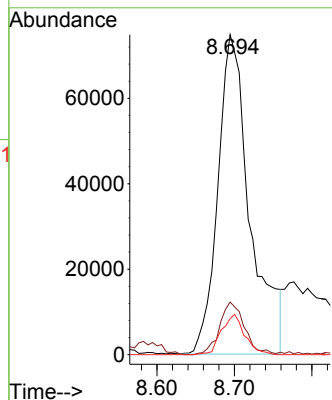
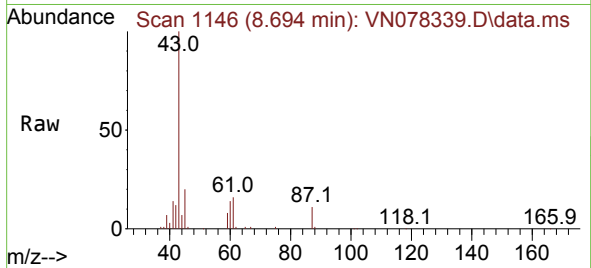




#43  
Isopropyl Acetate  
Concen: 17.527 ug/l  
RT: 8.694 min Scan# 1146  
Delta R.T. 0.000 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59

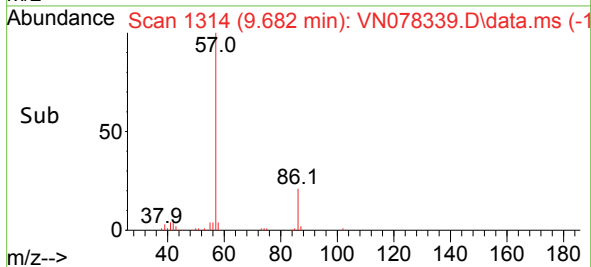
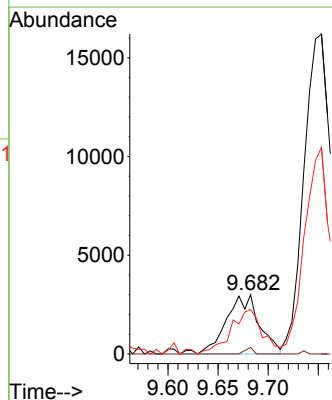
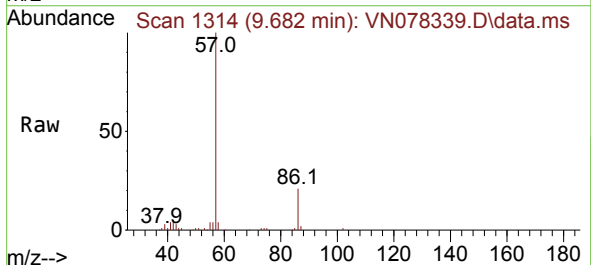
Instrument :  
MSVOA\_N  
ClientSampleId :

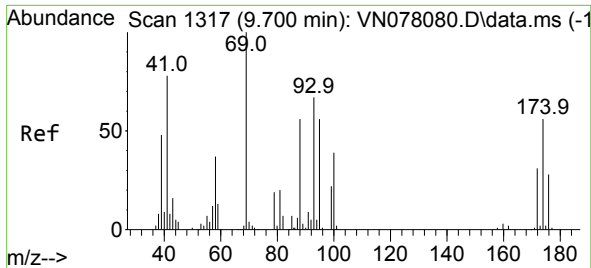
Tgt Ion: 43 Resp: 215187  
Ion Ratio Lower Upper  
43 100  
61 12.8 24.7 37.1#  
87 9.2 14.6 21.8#



#48  
Methyl methacrylate  
Concen: 1.345 ug/l  
RT: 9.682 min Scan# 1314  
Delta R.T. -0.006 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59

Tgt Ion: 41 Resp: 6931  
Ion Ratio Lower Upper  
41 100  
69 2.6 90.4 135.6#  
39 71.1 54.6 81.8

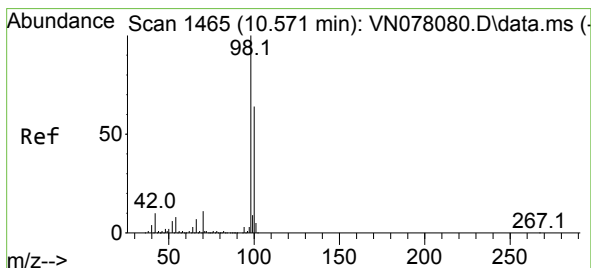
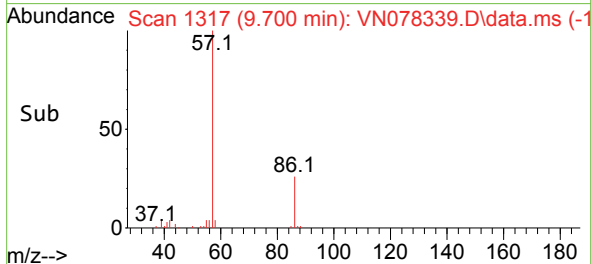
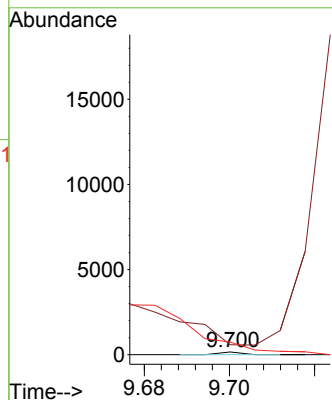
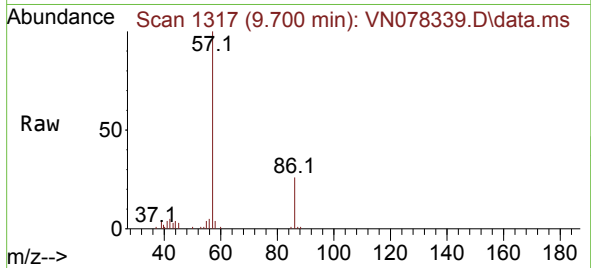




#49  
1,4-Dioxane  
Concen: 0.508 ug/l  
RT: 9.700 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59

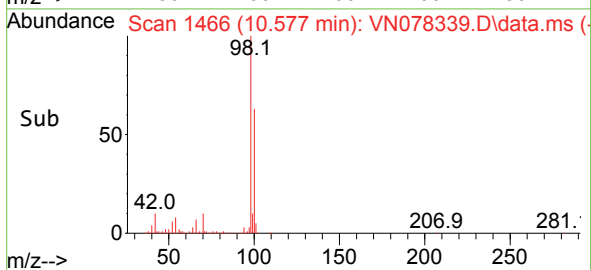
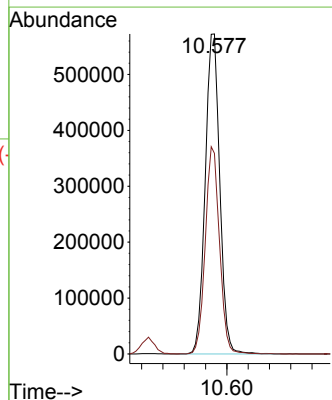
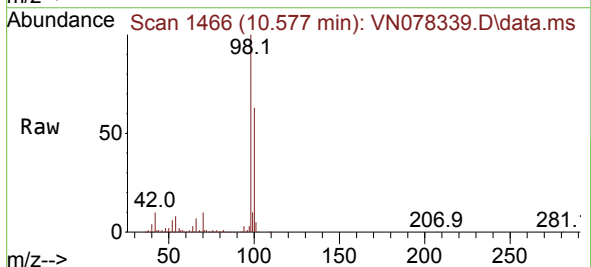
Instrument :  
MSVOA\_N  
ClientSampleId :

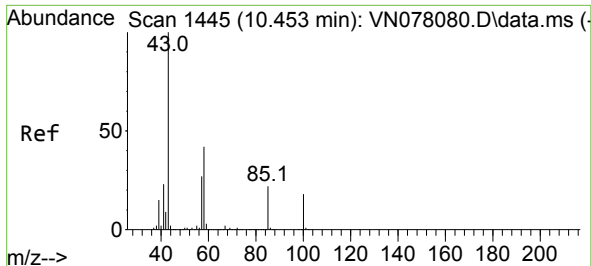
Tgt Ion: 88 Resp: 55  
Ion Ratio Lower Upper  
88 100  
43 0.0 17.0 25.6#  
58 0.0 47.0 70.4#



#50  
Toluene-d8  
Concen: 49.138 ug/l  
RT: 10.577 min Scan# 1466  
Delta R.T. 0.006 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59

Tgt Ion: 98 Resp: 1085301  
Ion Ratio Lower Upper  
98 100  
100 63.2 52.0 78.0

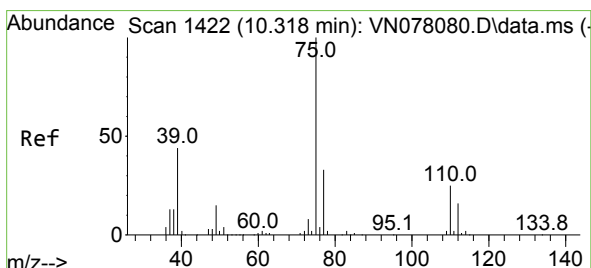
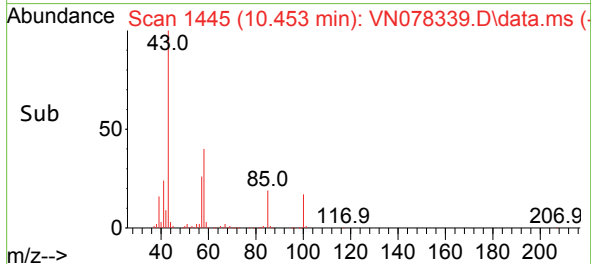
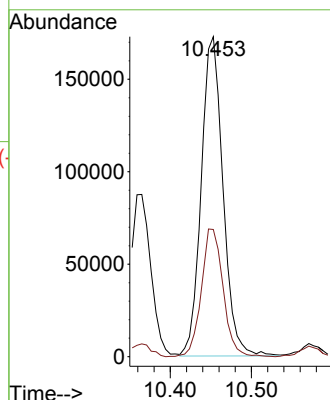
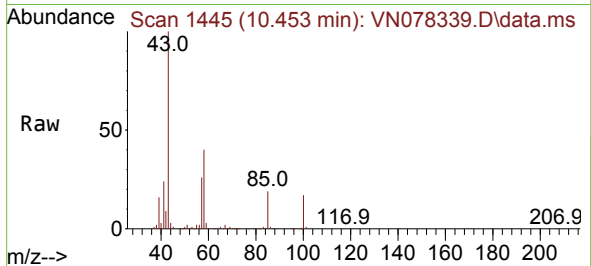




#51  
4-Methyl-2-Pentanone  
Concen: 49.772 ug/l  
RT: 10.453 min Scan# 1445  
Delta R.T. 0.000 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59

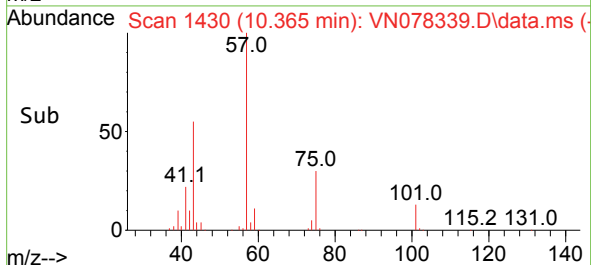
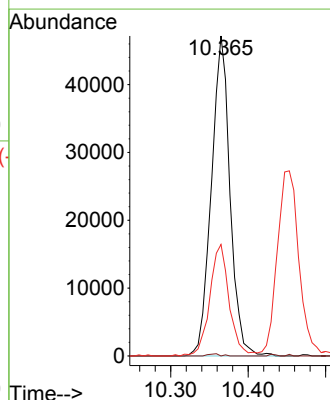
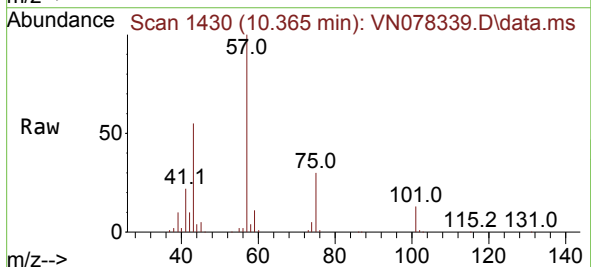
Instrument :  
MSVOA\_N  
ClientSampleId :

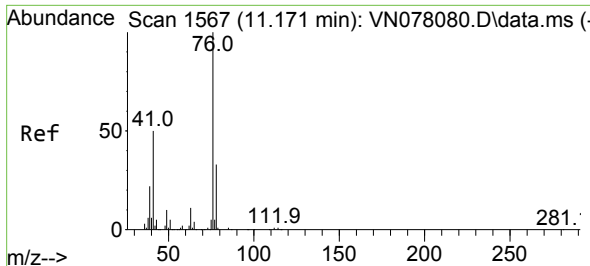
Tgt Ion: 43 Resp: 321794  
Ion Ratio Lower Upper  
43 100  
58 40.0 36.6 54.8



#54  
cis-1,3-Dichloropropene  
Concen: 8.218 ug/l  
RT: 10.365 min Scan# 1430  
Delta R.T. 0.047 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59

Tgt Ion: 75 Resp: 79014  
Ion Ratio Lower Upper  
75 100  
77 0.0 26.1 39.1#  
39 34.2 31.6 47.4





#57

1,3-Dichloropropane

Concen: 0.392 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.041 min

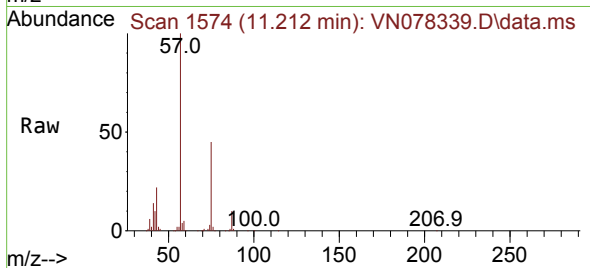
Lab File: VN078339.D

Acq: 21 Jun 2023 21:59

Instrument :

MSVOA\_N

ClientSampleId :

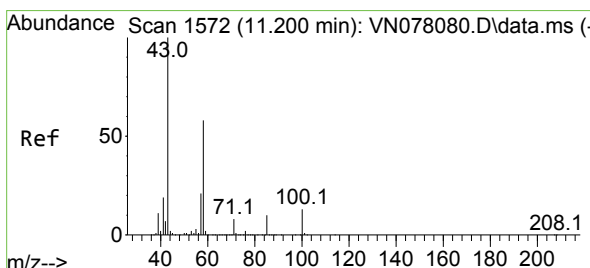
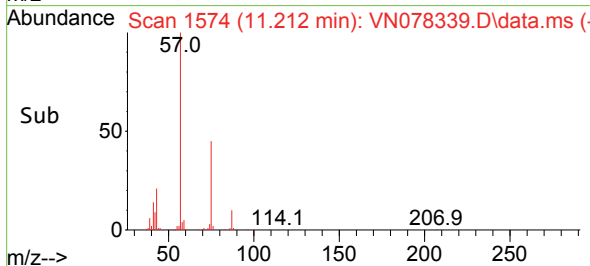
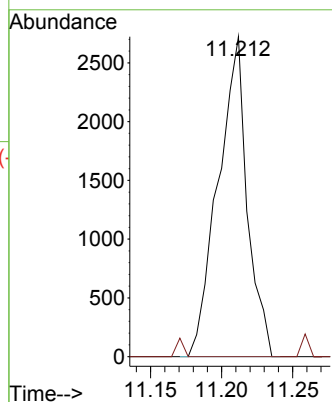


Tgt Ion: 76 Resp: 3879

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 61.554 ug/l

RT: 11.177 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN078339.D

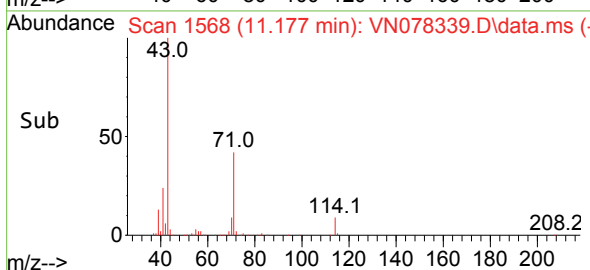
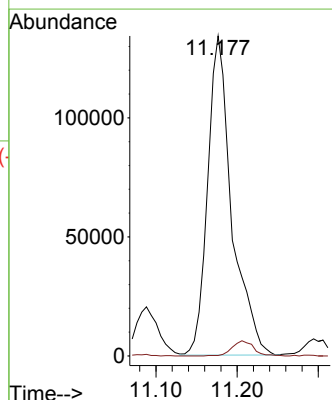
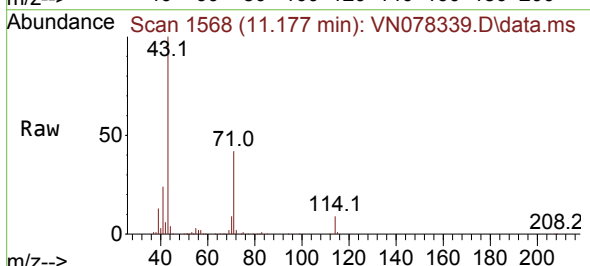
Acq: 21 Jun 2023 21:59

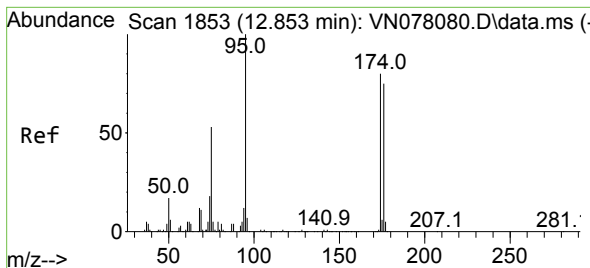
Tgt Ion: 43 Resp: 277099

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

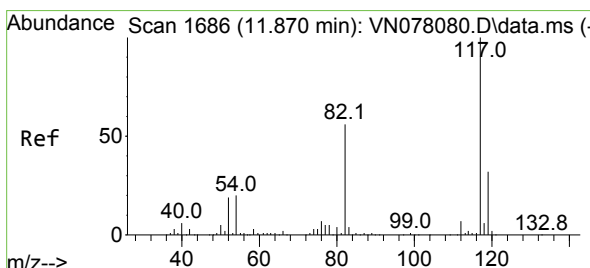
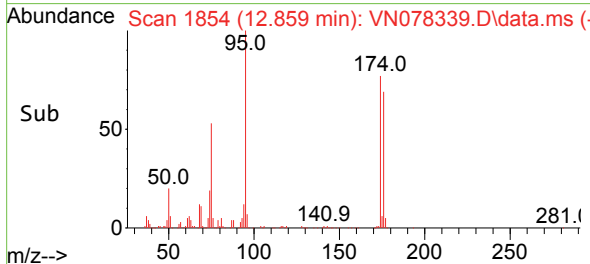
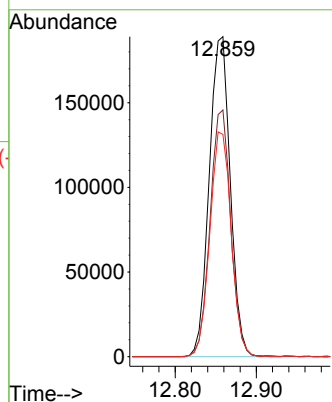
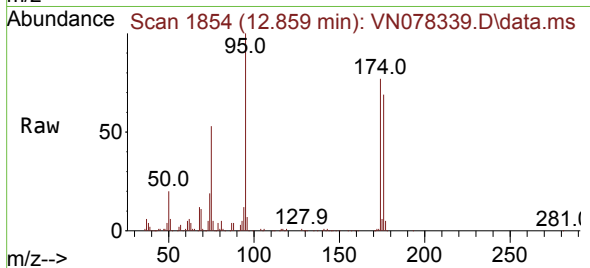




#62  
4-Bromofluorobenzene  
Concen: 49.493 ug/l  
RT: 12.859 min Scan# 1854  
Delta R.T. 0.006 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59

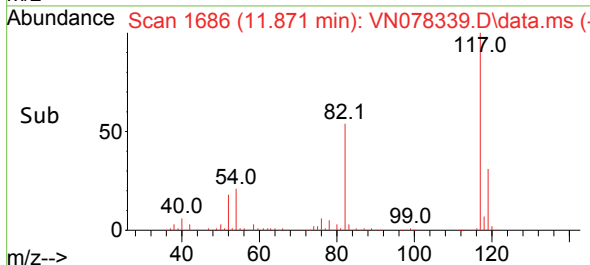
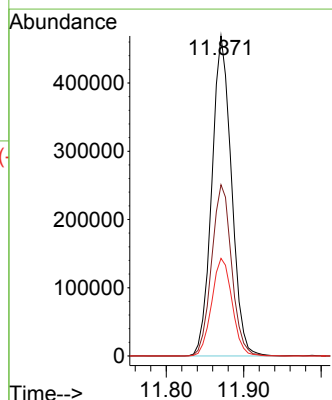
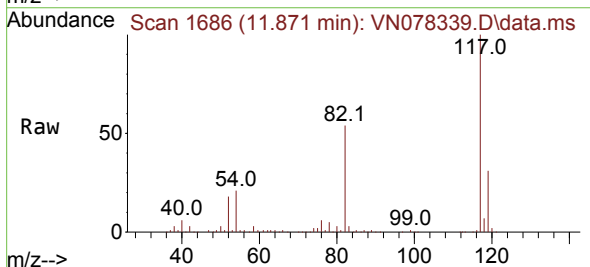
Instrument :  
MSVOA\_N  
ClientSampleId :

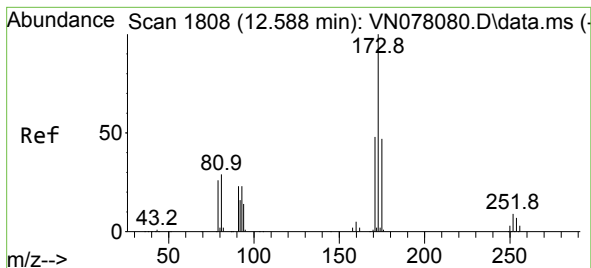
Tgt Ion: 95 Resp: 339832  
Ion Ratio Lower Upper  
95 100  
174 75.8 0.0 143.8  
176 71.3 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59

Tgt Ion: 117 Resp: 826698  
Ion Ratio Lower Upper  
117 100  
82 53.5 44.0 66.0  
119 30.5 25.6 38.4





#71

Bromoform

Concen: 0.593 ug/l

RT: 12.853 min Scan# 1808

Delta R.T. 0.265 min

Lab File: VN078339.D

Acq: 21 Jun 2023 21:59

Instrument :

MSVOA\_N

ClientSampleId :

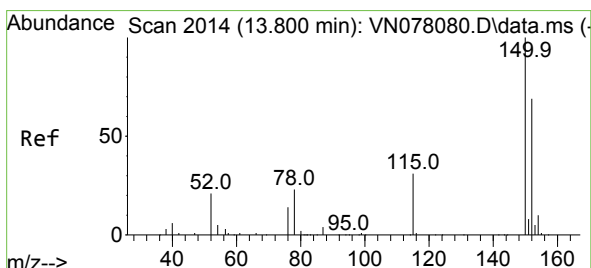
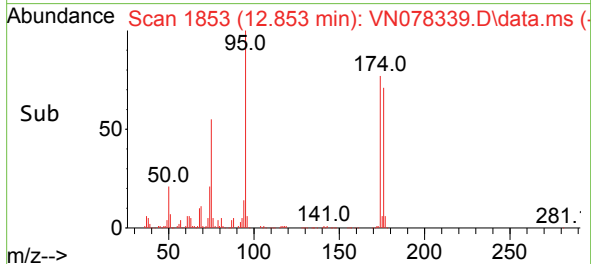
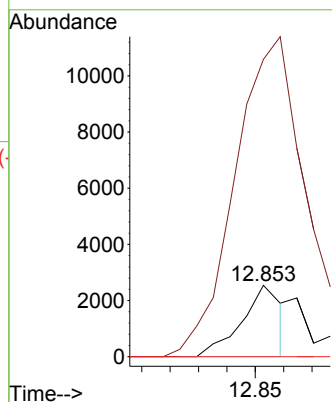
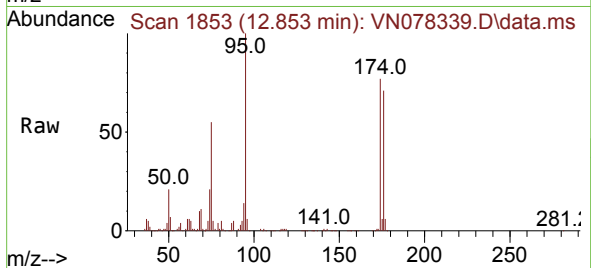
Tgt Ion:173 Resp: 2494

Ion Ratio Lower Upper

173 100

175 669.6 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. 0.000 min

Lab File: VN078339.D

Acq: 21 Jun 2023 21:59

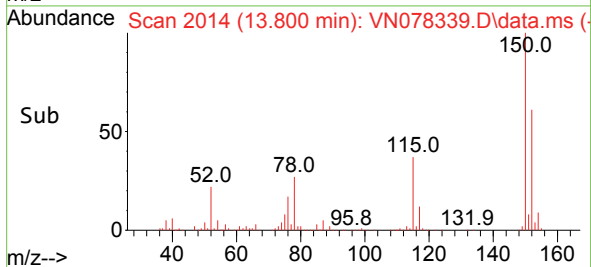
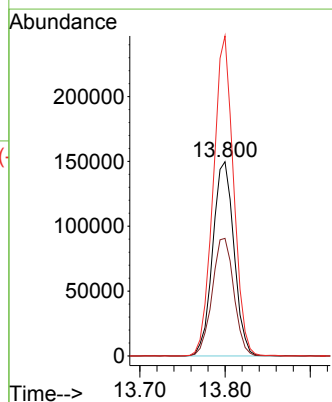
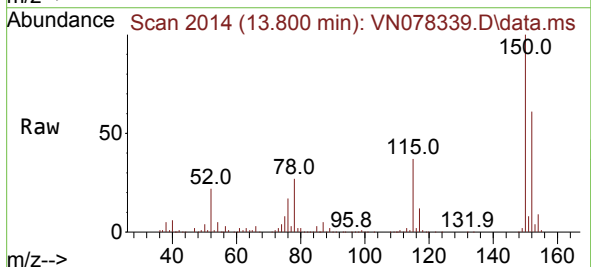
Tgt Ion:152 Resp: 259522

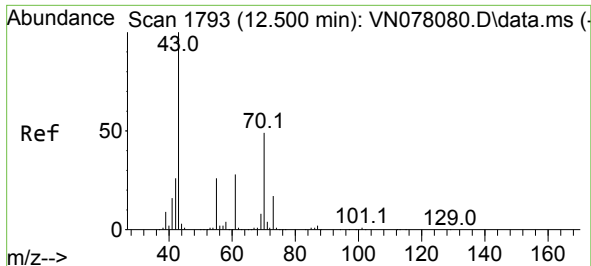
Ion Ratio Lower Upper

152 100

115 61.7 32.3 96.8

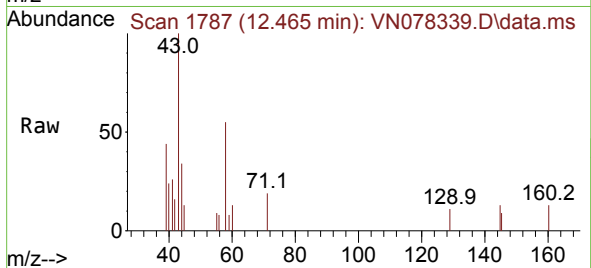
150 157.4 0.0 355.8



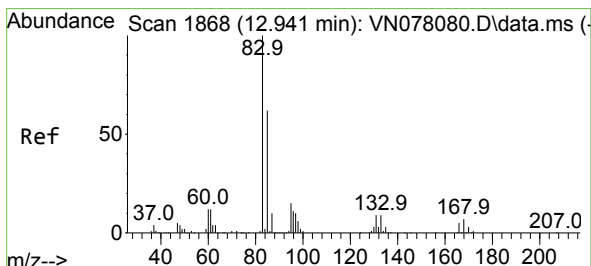
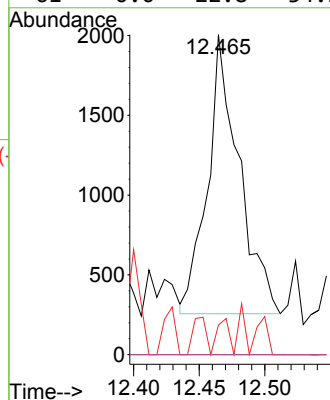
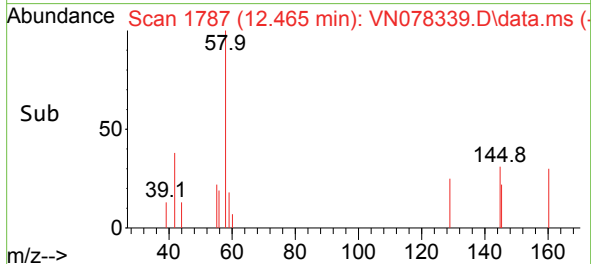


#74  
N-amy1 acetate  
Concen: 0.361 ug/l  
RT: 12.465 min Scan# 1  
Delta R.T. -0.035 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59

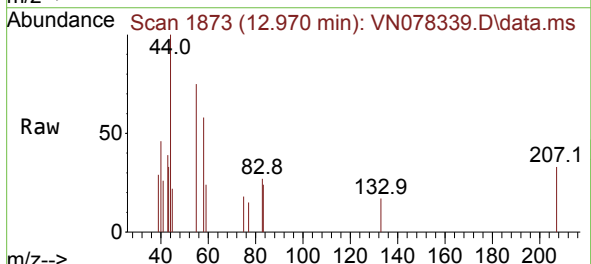
Instrument :  
MSVOA\_N  
ClientSampleId :



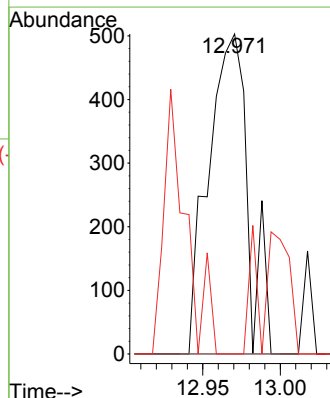
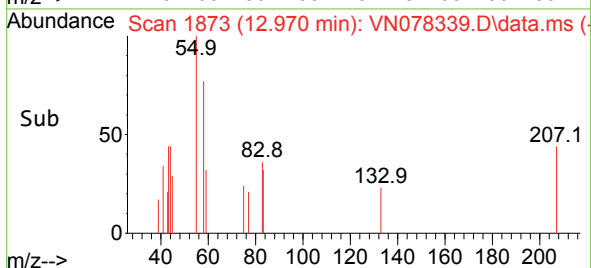
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 2919  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 70 0.0      | 43.4 65.2#  |
| 55 5.0      | 21.4 32.0#  |
| 61 0.0      | 22.8 34.2#  |

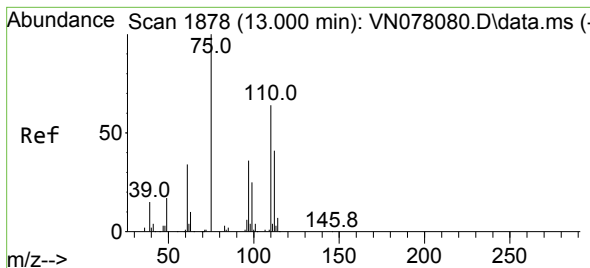


#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 12.970 min Scan# 1873  
Delta R.T. 0.029 min  
Lab File: VN078339.D  
Acq: 21 Jun 2023 21:59



|             |           |       |  |
|-------------|-----------|-------|--|
| Tgt Ion: 83 | Resp: 893 |       |  |
| Ion Ratio   | Lower     | Upper |  |
| 83 100      |           |       |  |
| 131 0.0     | 5.0       | 15.0# |  |
| 85 28.7     | 31.9      | 95.7# |  |





#76

1,2,3-Trichloropropane

Concen: 30.164 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078339.D

Acq: 21 Jun 2023 21:59

Instrument :

MSVOA\_N

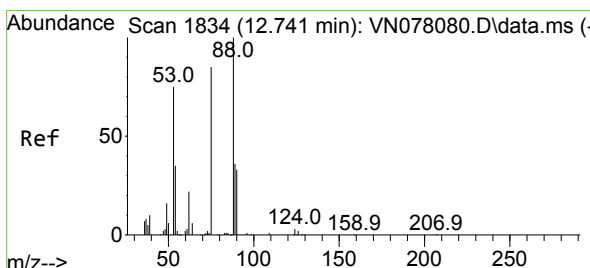
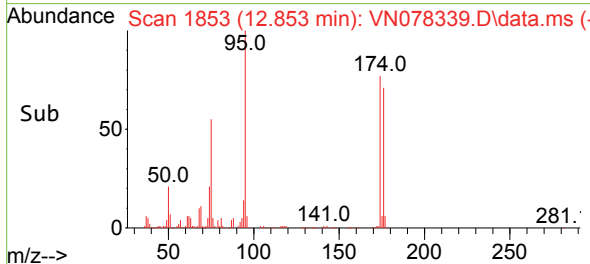
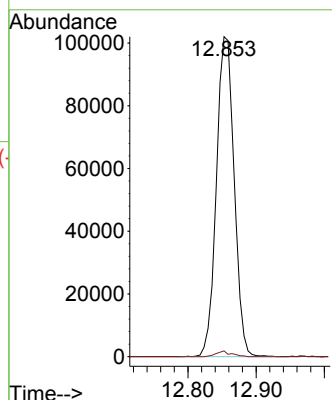
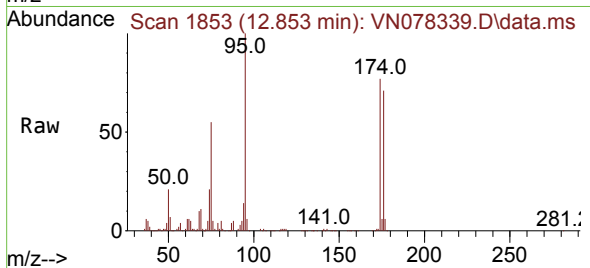
ClientSampleId :

Tgt Ion: 75 Resp: 185062

Ion Ratio Lower Upper

75 100

77 1.5 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 92.673 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078339.D

Acq: 21 Jun 2023 21:59

Tgt Ion: 75 Resp: 185062

Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

89 0.0 38.8 58.2#

