

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN060523\  
 Data File : VN078046.D  
 Acq On : 05 Jun 2023 15:57  
 Operator : JC\MD  
 Sample : PB153198ZHE#07  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB153198ZHE#07

Quant Time: Jun 06 02:03:07 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 16 04:07:42 2023  
 Response via : Initial Calibration

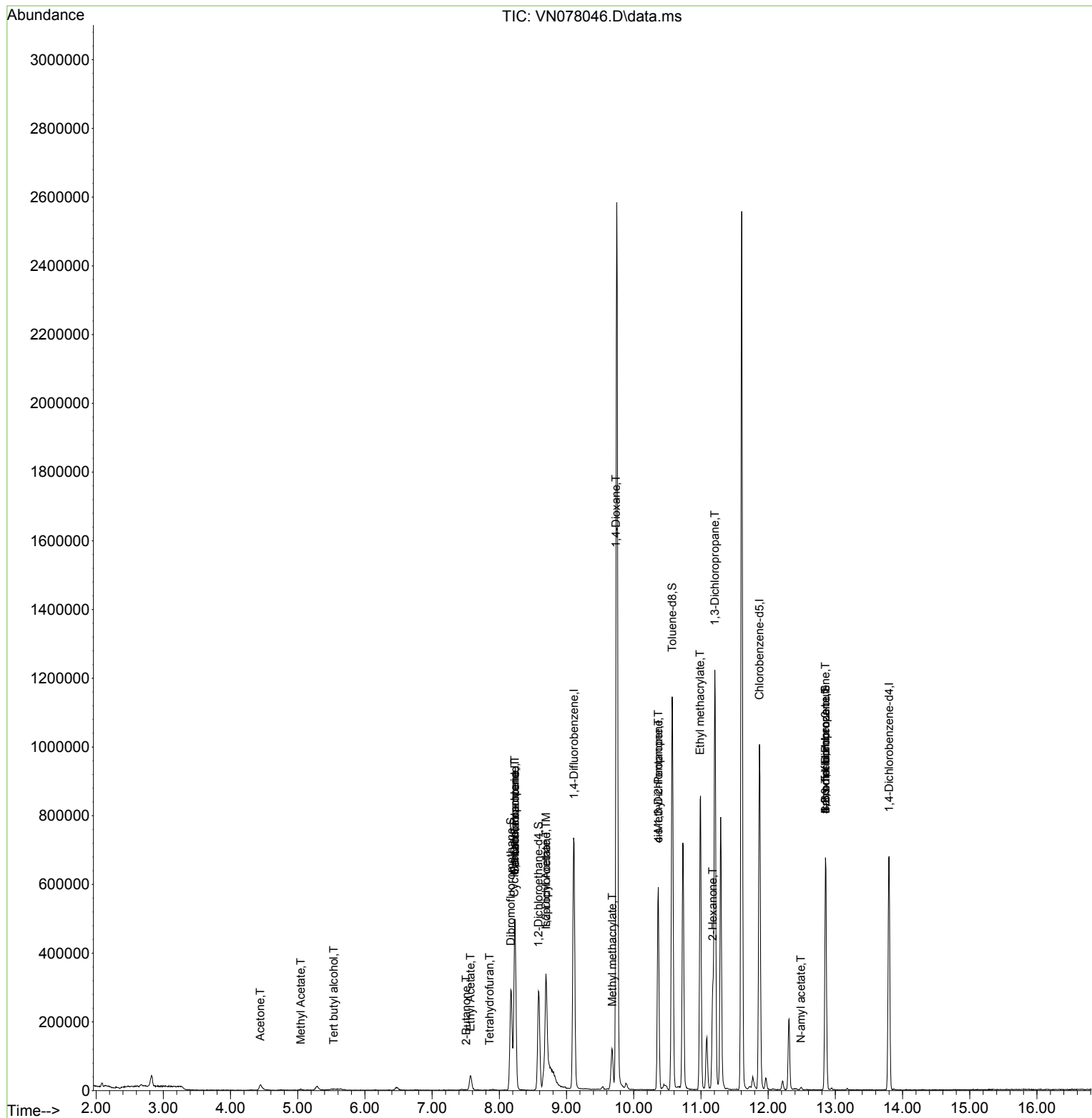
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 357401   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.112  | 114   | 656470   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.871 | 117   | 610067   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.800 | 152   | 192709   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.583  | 65    | 237696   | 44.449    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 88.900%  |
| 35) Dibromofluoromethane      | 8.171  | 113   | 214571   | 50.124    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 100.240% |
| 50) Toluene-d8                | 10.571 | 98    | 816982   | 49.583    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 99.160%  |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 248436   | 42.691    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 85.380%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.377  | 50    | 936      | Below Cal | #      | 82       |
| 11) Tert butyl alcohol        | 5.536  | 59    | 259      | 0.351     | ug/l # | 72       |
| 13) Acrolein                  | 4.206  | 56    | 214      | Below Cal | #      | 51       |
| 16) Acetone                   | 4.442  | 43    | 29204    | 17.358    | ug/l   | 90       |
| 18) Methyl Acetate            | 5.048  | 43    | 5033     | 0.713     | ug/l # | 61       |
| 20) Methylene Chloride        | 5.283  | 84    | 8251     | Below Cal |        | 98       |
| 25) 2-Butanone                | 7.506  | 43    | 2529     | 0.961     | ug/l   | 97       |
| 29) Tetrahydrofuran           | 7.853  | 42    | 406      | 0.236     | ug/l # | 20       |
| 31) Cyclohexane               | 8.224  | 56    | 8724     | 1.200     | ug/l # | 36       |
| 36) 1,1-Dichloropropene       | 8.230  | 75    | 30277    | 4.836     | ug/l # | 49       |
| 37) Ethyl Acetate             | 7.571  | 43    | 61796    | 11.073    | ug/l # | 91       |
| 38) Carbon Tetrachloride      | 8.230  | 117   | 38978    | 6.165     | ug/l # | 15       |
| 42) 1,2-Dichloroethane        | 8.694  | 62    | 2262     | 0.337     | ug/l # | 73       |
| 43) Isopropyl Acetate         | 8.694  | 43    | 534917   | 58.682    | ug/l # | 69       |
| 48) Methyl methacrylate       | 9.683  | 41    | 7392     | 1.710     | ug/l # | 30       |
| 49) 1,4-Dioxane               | 9.735  | 88    | 94       | 1.152     | ug/l # | 30       |
| 51) 4-Methyl-2-Pentanone      | 10.365 | 43    | 206764   | 38.160    | ug/l # | 41       |
| 54) cis-1,3-Dichloropropene   | 10.365 | 75    | 111541   | 14.804    | ug/l # | 67       |
| 56) Ethyl methacrylate        | 10.988 | 69    | 3255     | 0.471     | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 11.206 | 76    | 13056    | 1.667     | ug/l # | 42       |
| 59) 2-Hexanone                | 11.177 | 43    | 234884   | 58.607    | ug/l # | 19       |
| 71) Bromoform                 | 12.853 | 173   | 1948     | 0.640     | ug/l # | 28       |
| 74) N-amyl acetate            | 12.488 | 43    | 3578     | 0.583     | ug/l # | 45       |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 128291   | 26.583    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 128291   | 84.972    | ug/l # | 15       |
| -----                         |        |       |          |           |        |          |

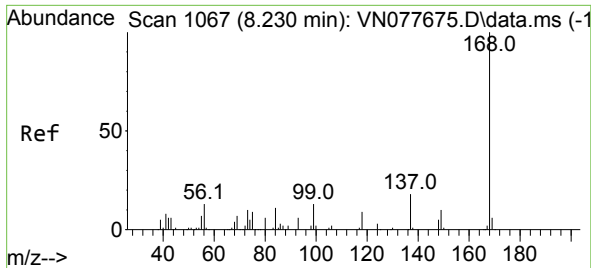
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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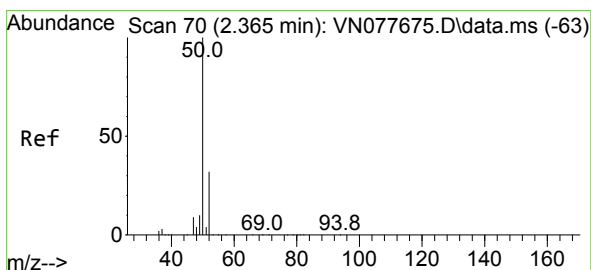
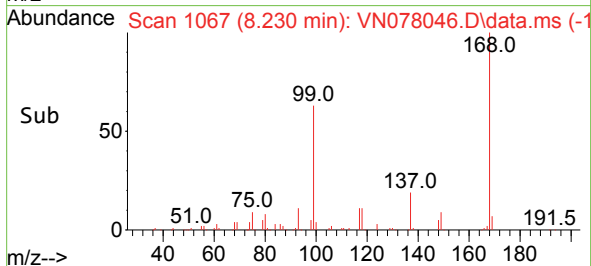
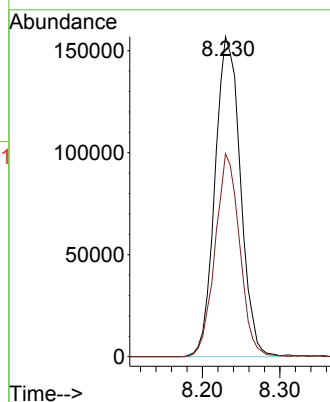
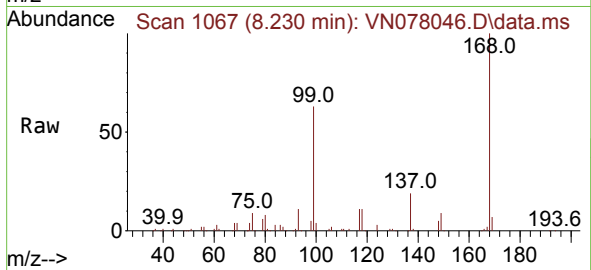




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN078046.D  
Acq: 05 Jun 2023 15:57

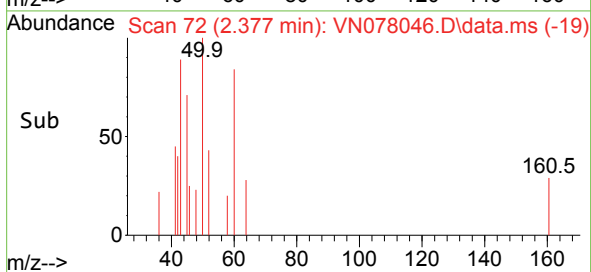
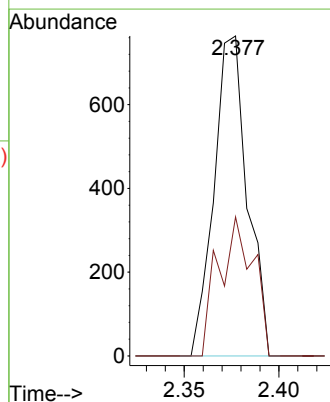
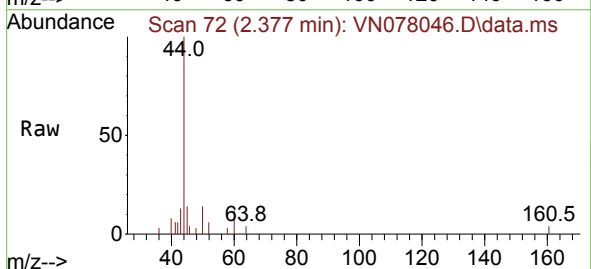
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB153198ZHE#07

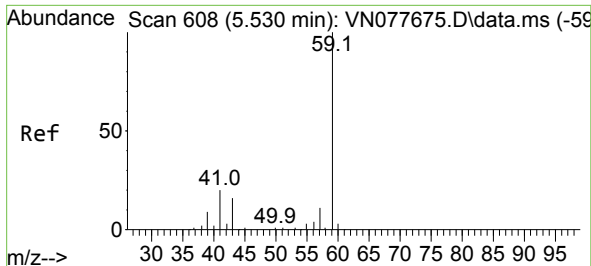
Tgt Ion:168 Resp: 357401  
Ion Ratio Lower Upper  
168 100  
99 63.5 53.0 79.6



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.377 min Scan# 72  
Delta R.T. 0.012 min  
Lab File: VN078046.D  
Acq: 05 Jun 2023 15:57

Tgt Ion: 50 Resp: 936  
Ion Ratio Lower Upper  
50 100  
52 43.5 26.5 39.7#





#11

Tert butyl alcohol

Concen: 0.351 ug/l

RT: 5.536 min Scan# 608

Delta R.T. 0.006 min

Lab File: VN078046.D

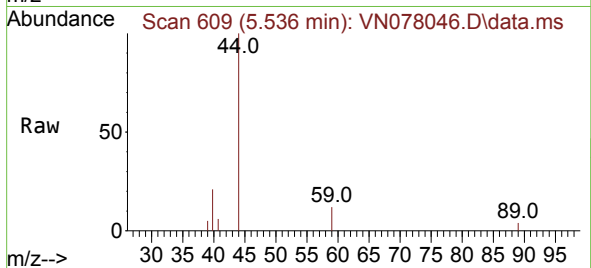
Acq: 05 Jun 2023 15:57

Instrument :

MSVOA\_N

ClientSampleId :

PB153198ZHE#07

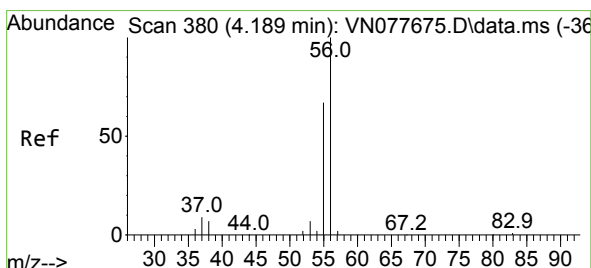
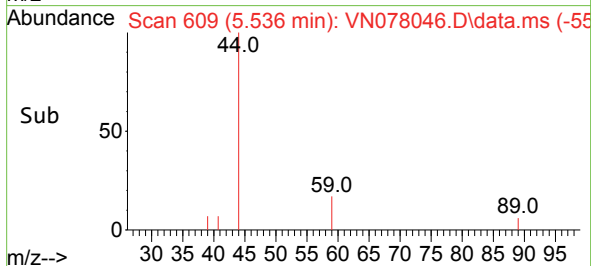
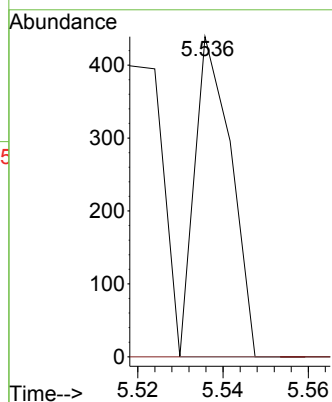


Tgt Ion: 59 Resp: 259

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#13

Acrolein

Concen: Below Cal

RT: 4.206 min Scan# 383

Delta R.T. 0.017 min

Lab File: VN078046.D

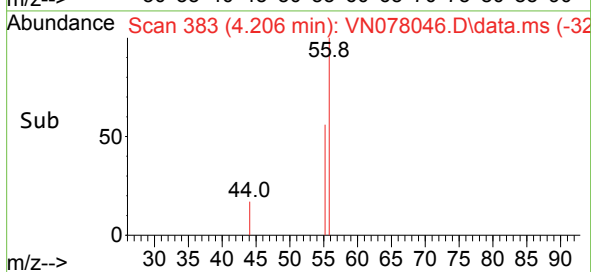
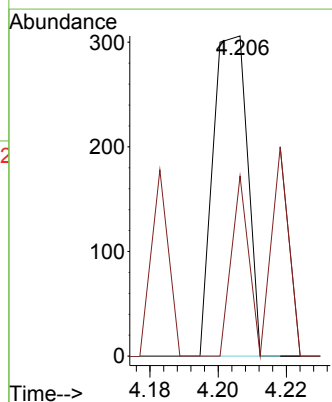
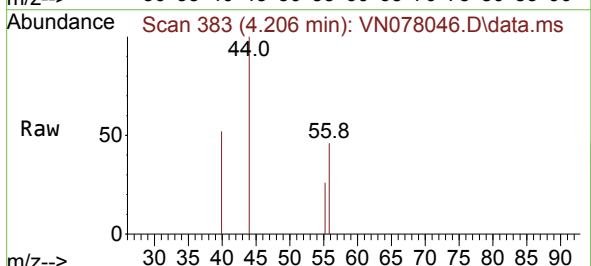
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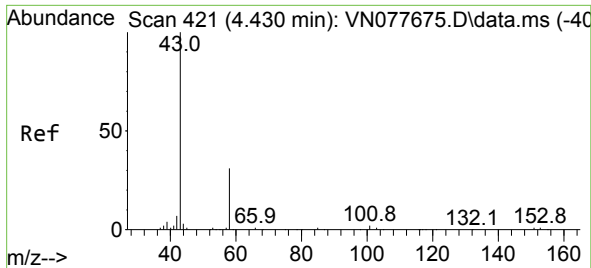
Tgt Ion: 56 Resp: 214

Ion Ratio Lower Upper

56 100

55 28.5 54.5 81.7#

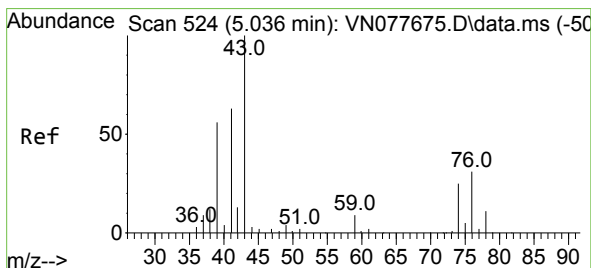
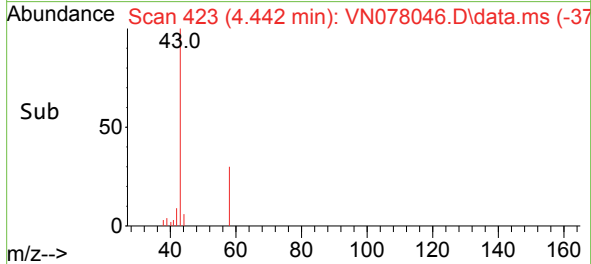
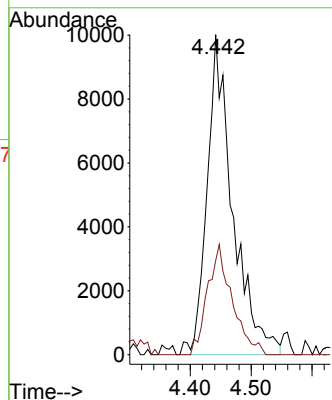
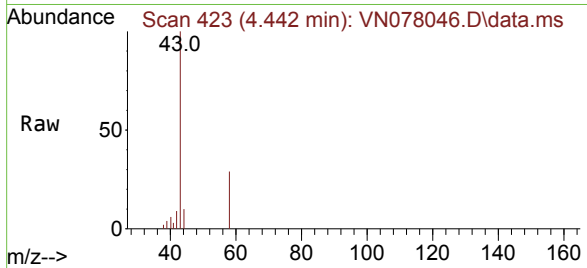




#16  
Acetone  
Concen: 17.358 ug/l  
RT: 4.442 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VN078046.D  
Acq: 05 Jun 2023 15:57

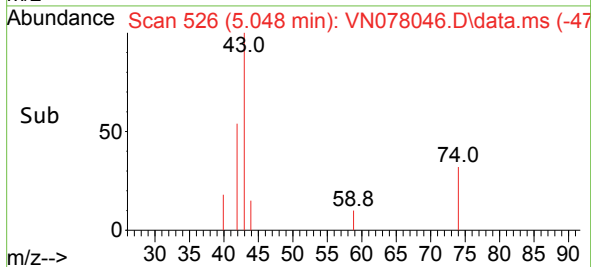
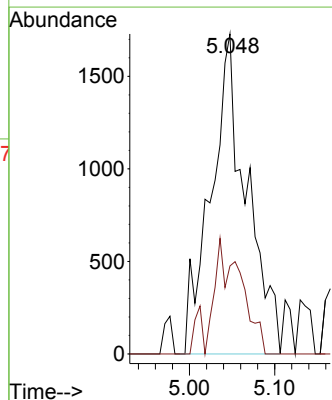
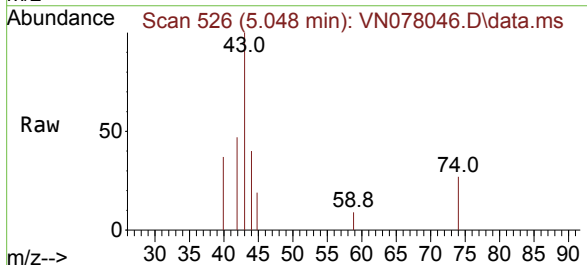
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB153198ZHE#07

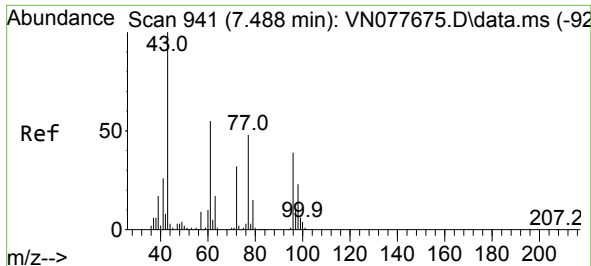
Tgt Ion: 43 Resp: 29204  
Ion Ratio Lower Upper  
43 100  
58 29.5 28.0 42.0



#18  
Methyl Acetate  
Concen: 0.713 ug/l  
RT: 5.048 min Scan# 526  
Delta R.T. 0.012 min  
Lab File: VN078046.D  
Acq: 05 Jun 2023 15:57

Tgt Ion: 43 Resp: 5033  
Ion Ratio Lower Upper  
43 100  
74 10.8 26.2 39.4#





#25

2-Butanone

Concen: 0.961 ug/l

RT: 7.506 min Scan# 941

Delta R.T. 0.018 min

Lab File: VN078046.D

Acq: 05 Jun 2023 15:57

Instrument :

MSVOA\_N

ClientSampleId :

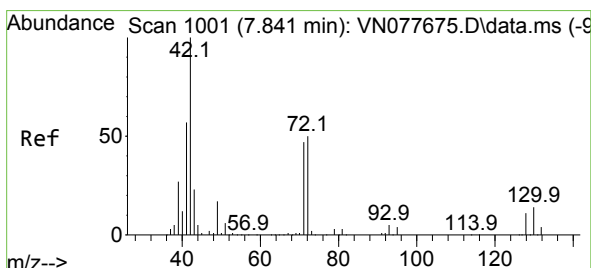
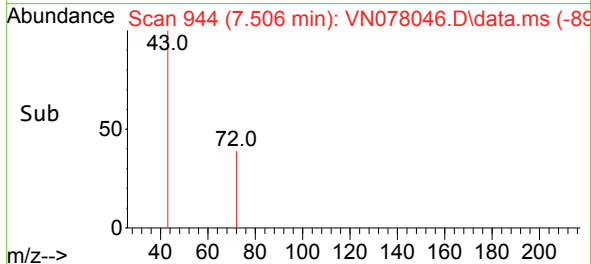
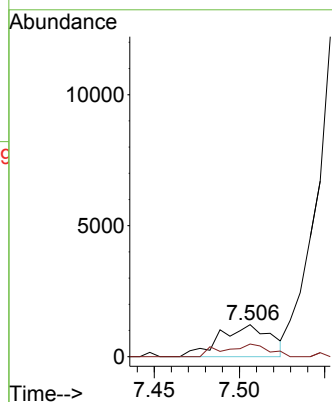
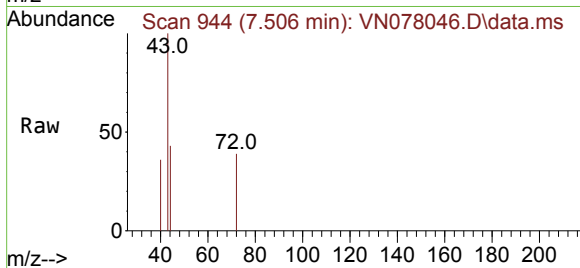
PB153198ZHE#07

Tgt Ion: 43 Resp: 2529

Ion Ratio Lower Upper

43 100

72 39.3 30.2 45.2



#29

Tetrahydrofuran

Concen: 0.236 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. 0.012 min

Lab File: VN078046.D

Acq: 05 Jun 2023 15:57

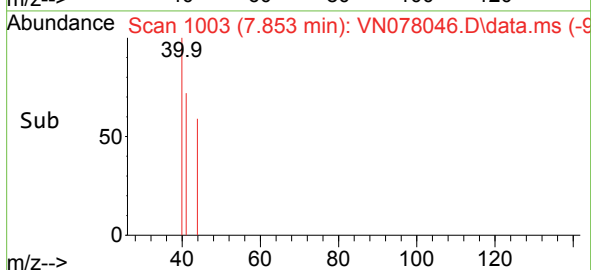
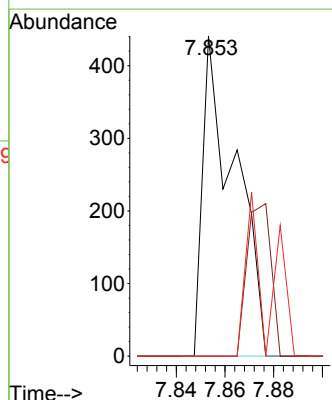
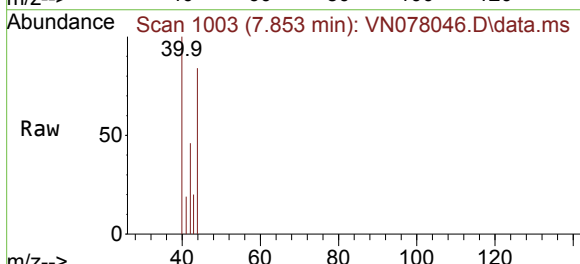
Tgt Ion: 42 Resp: 406

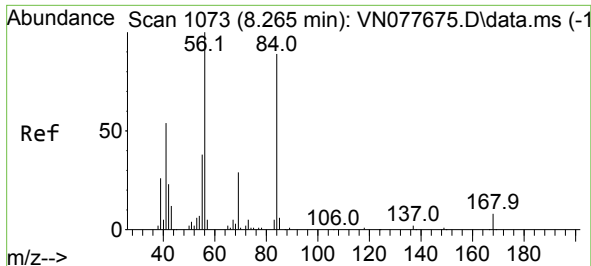
Ion Ratio Lower Upper

42 100

72 0.0 49.8 74.6#

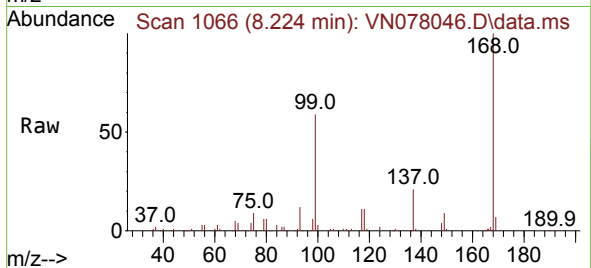
71 0.0 47.4 71.2#



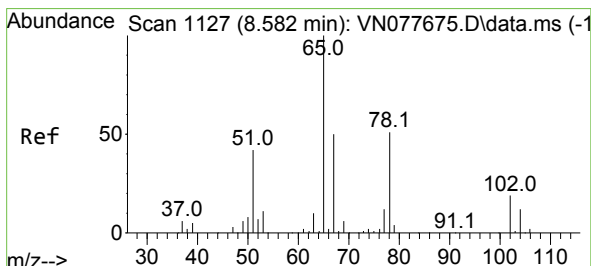
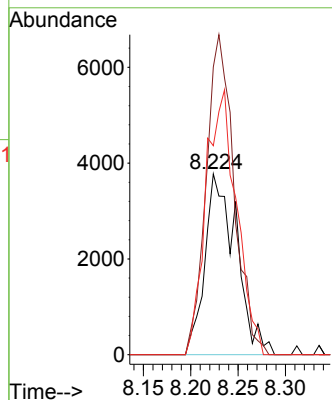
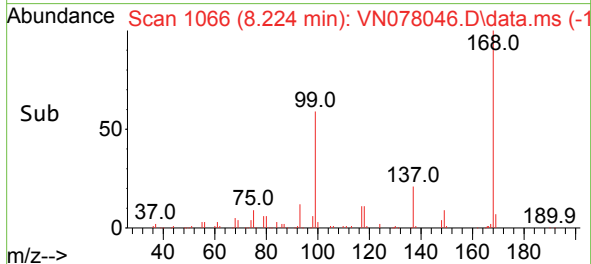


#31  
Cyclohexane  
Concen: 1.200 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.041 min  
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PB153198ZHE#07

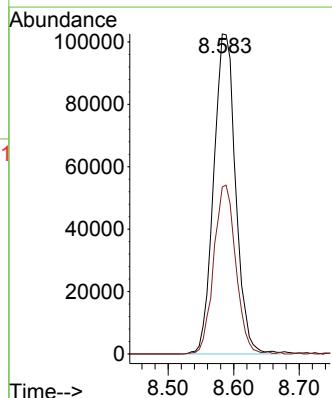
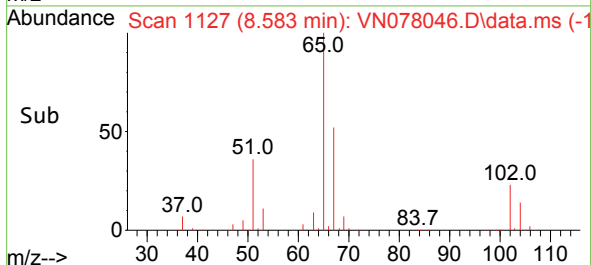
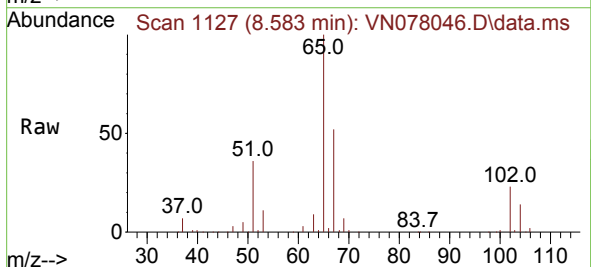


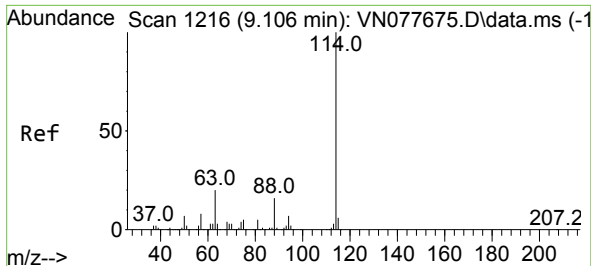
Tgt Ion: 56 Resp: 8724  
Ion Ratio Lower Upper  
56 100  
69 159.1 26.8 40.2#  
84 115.6 81.8 122.6



#33  
1,2-Dichloroethane-d4  
Concen: 44.449 ug/l  
RT: 8.583 min Scan# 1127  
Delta R.T. 0.001 min  
Lab File: VN078046.D  
Acq: 05 Jun 2023 15:57

Tgt Ion: 65 Resp: 237696  
Ion Ratio Lower Upper  
65 100  
67 53.2 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN078046.D

Acq: 05 Jun 2023 15:57

Instrument :

MSVOA\_N

ClientSampleId :

PB153198ZHE#07

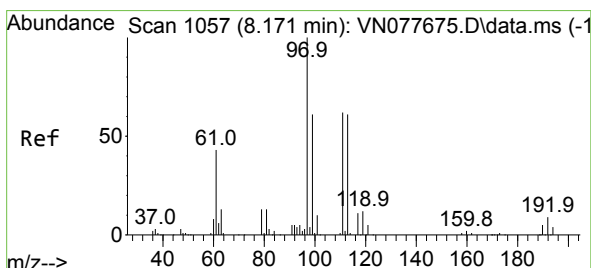
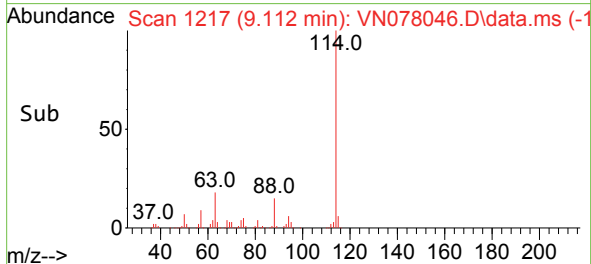
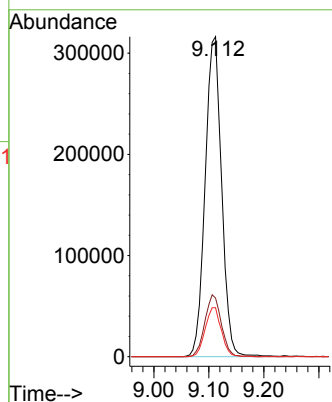
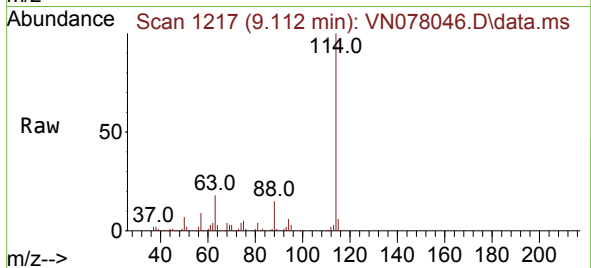
Tgt Ion:114 Resp: 656470

Ion Ratio Lower Upper

114 100

63 18.3 0.0 36.4

88 15.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.124 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN078046.D

Acq: 05 Jun 2023 15:57

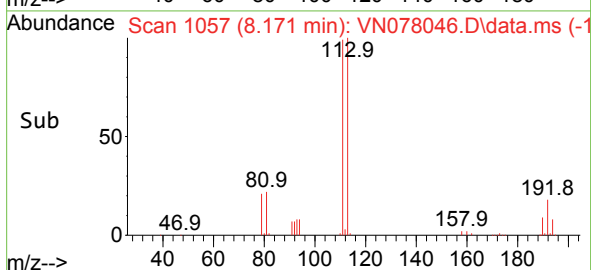
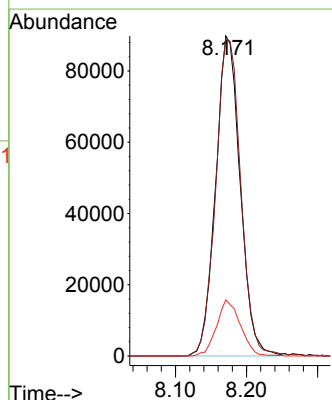
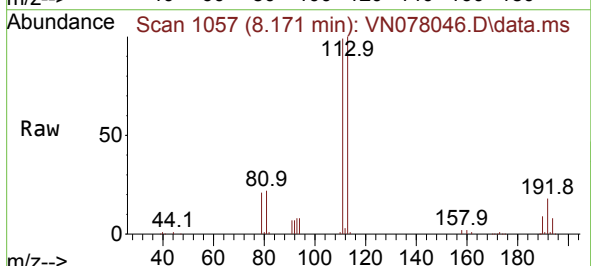
Tgt Ion:113 Resp: 214571

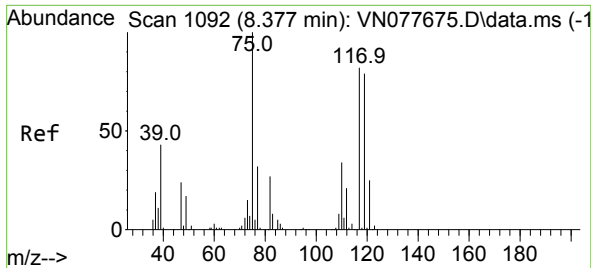
Ion Ratio Lower Upper

113 100

111 101.7 82.6 123.8

192 17.1 12.7 19.1

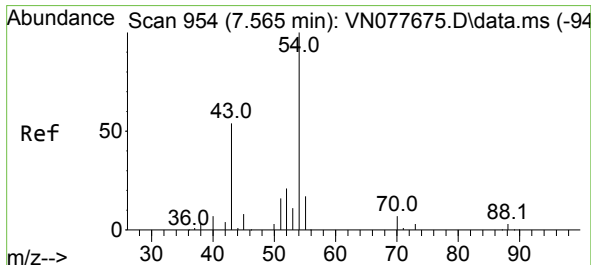
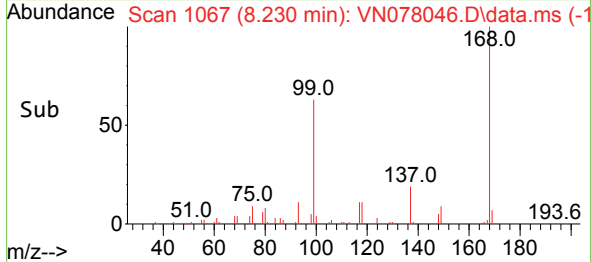
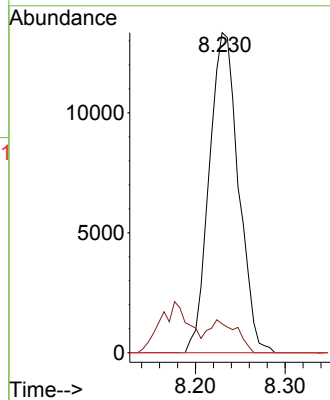
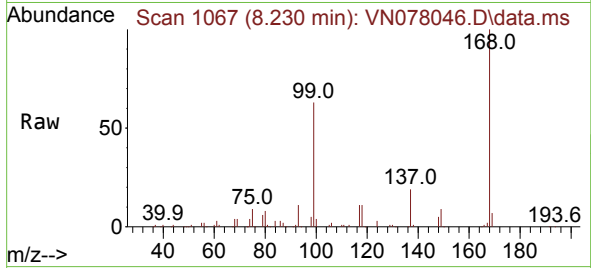




#36  
1,1-Dichloropropene  
Concen: 4.836 ug/l  
RT: 8.230 min Scan# 1092  
Delta R.T. -0.147 min  
Lab File: VN078046.D  
Acq: 05 Jun 2023 15:57

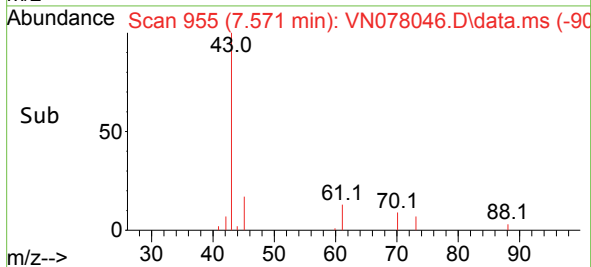
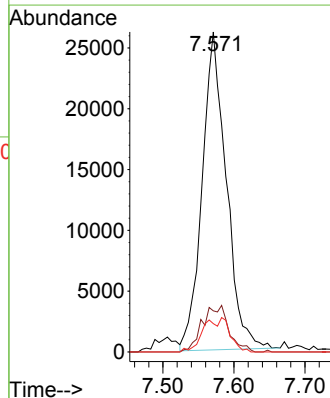
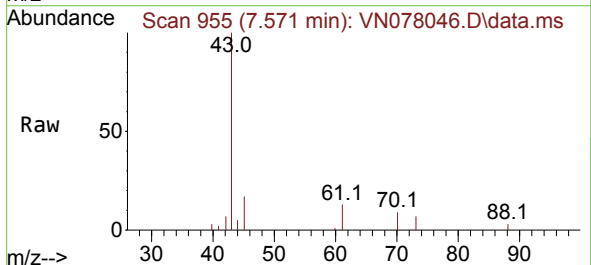
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB153198ZHE#07

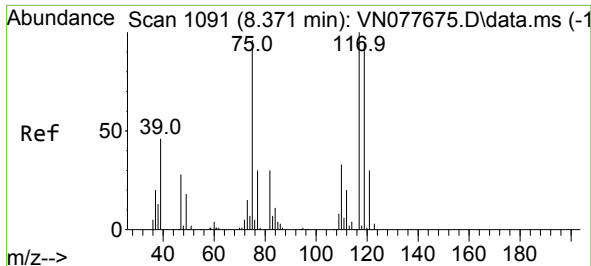
Tgt Ion: 75 Resp: 30277  
Ion Ratio Lower Upper  
75 100  
110 9.9 19.1 57.3#  
77 0.0 25.0 37.4#



#37  
Ethyl Acetate  
Concen: 11.073 ug/l  
RT: 7.571 min Scan# 955  
Delta R.T. 0.006 min  
Lab File: VN078046.D  
Acq: 05 Jun 2023 15:57

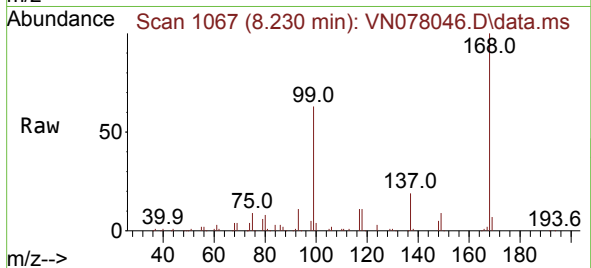
Tgt Ion: 43 Resp: 61796  
Ion Ratio Lower Upper  
43 100  
61 16.0 13.2 19.8  
70 7.0 11.3 16.9#



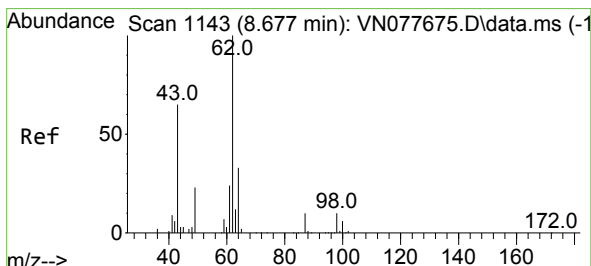
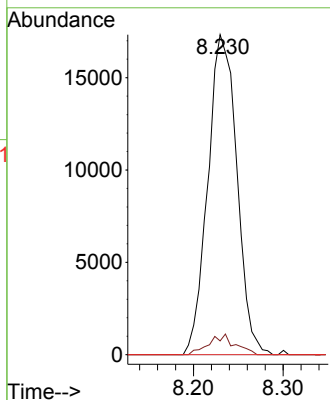
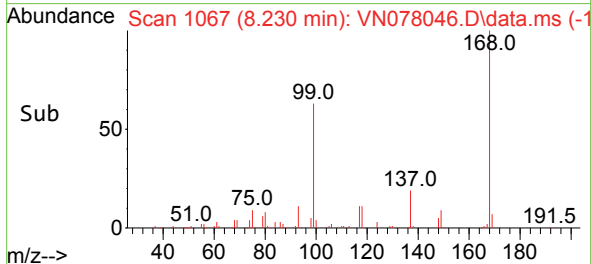


#38  
Carbon Tetrachloride  
Concen: 6.165 ug/l  
RT: 8.230 min Scan# 1091  
Delta R.T. -0.141 min  
Lab File: VN078046.D  
Acq: 05 Jun 2023 15:57

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB153198ZHE#07

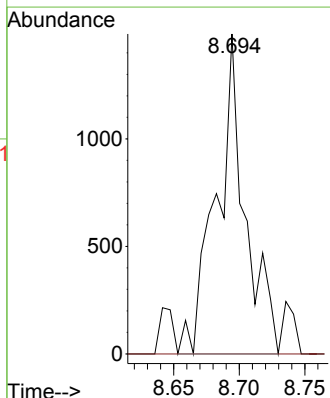
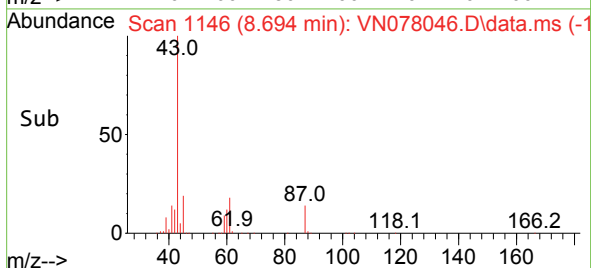
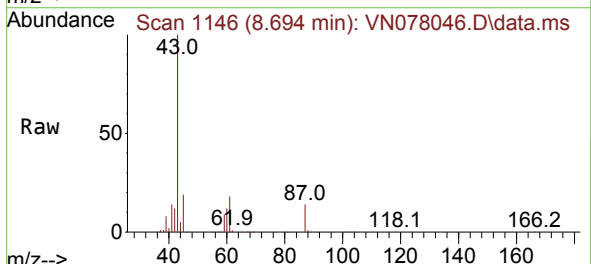


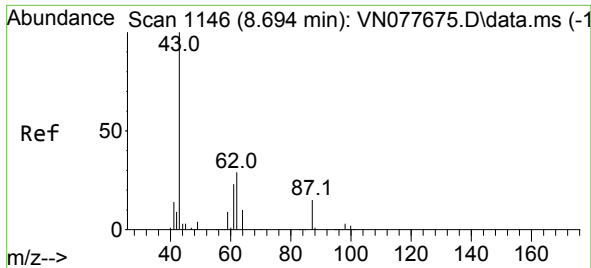
Tgt Ion:117 Resp: 38978  
Ion Ratio Lower Upper  
117 100  
119 4.3 77.3 115.9#  
121 0.0 23.3 34.9#



#42  
1,2-Dichloroethane  
Concen: 0.337 ug/l  
RT: 8.694 min Scan# 1146  
Delta R.T. 0.017 min  
Lab File: VN078046.D  
Acq: 05 Jun 2023 15:57

Tgt Ion: 62 Resp: 2262  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 19.8

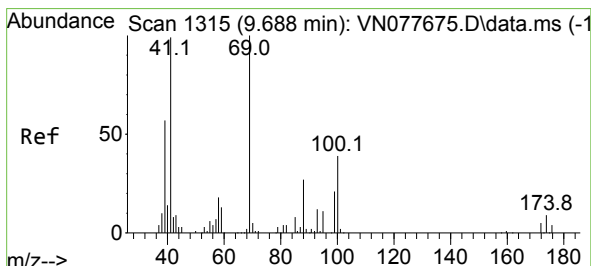
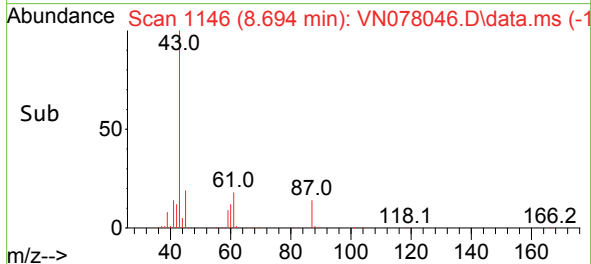
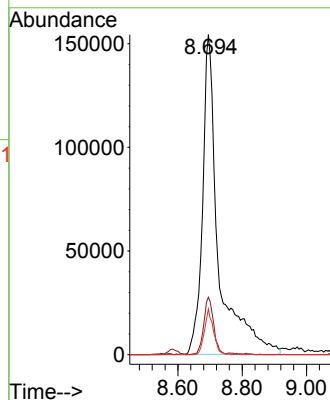
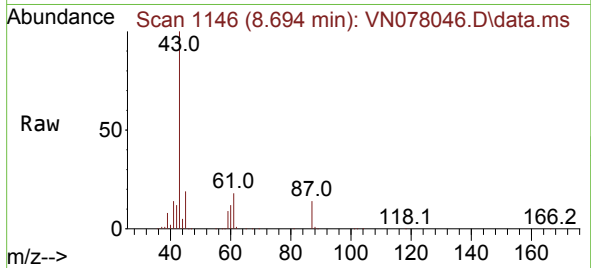




#43  
Isopropyl Acetate  
Concen: 58.682 ug/l  
RT: 8.694 min Scan# 1146  
Delta R.T. 0.000 min  
Lab File: VN078046.D  
Acq: 05 Jun 2023 15:57

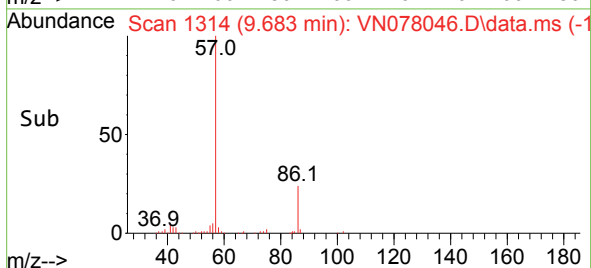
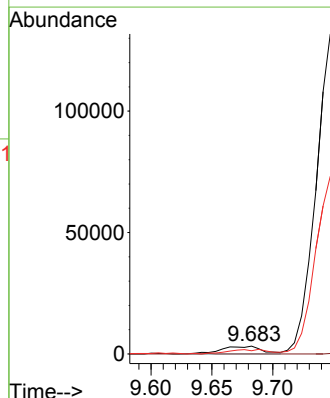
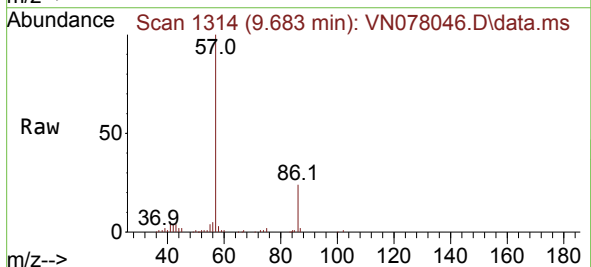
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB153198ZHE#07

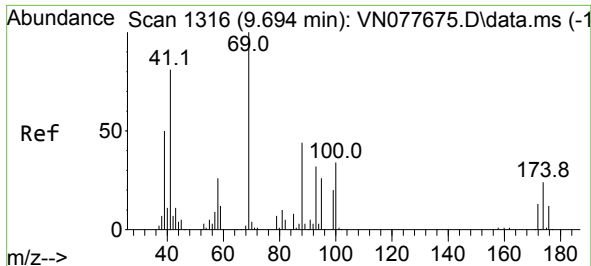
Tgt Ion: 43 Resp: 534917  
Ion Ratio Lower Upper  
43 100  
61 11.1 24.7 37.1#  
87 8.0 14.6 21.8#



#48  
Methyl methacrylate  
Concen: 1.710 ug/l  
RT: 9.683 min Scan# 1314  
Delta R.T. -0.005 min  
Lab File: VN078046.D  
Acq: 05 Jun 2023 15:57

Tgt Ion: 41 Resp: 7392  
Ion Ratio Lower Upper  
41 100  
69 0.0 90.4 135.6#  
39 58.8 54.6 81.8





#49

1,4-Dioxane

Concen: 1.152 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN078046.D

Acq: 05 Jun 2023 15:57

Instrument :

MSVOA\_N

ClientSampleId :

PB153198ZHE#07

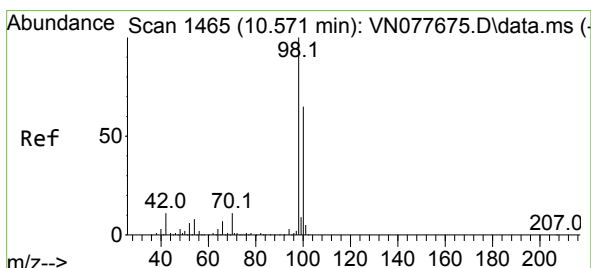
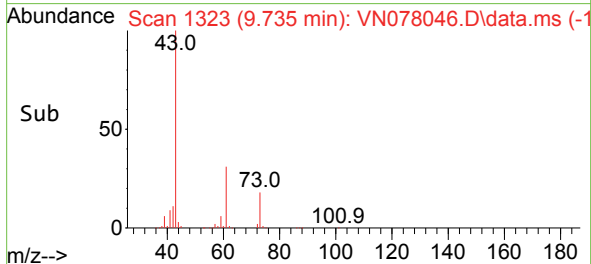
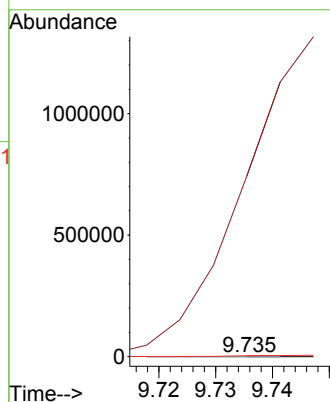
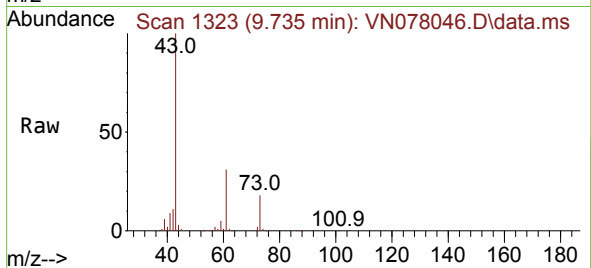
Tgt Ion: 88 Resp: 94

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 0.0 47.0 70.4#



#50

Toluene-d8

Concen: 49.583 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078046.D

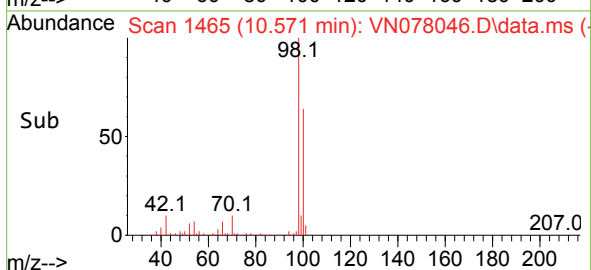
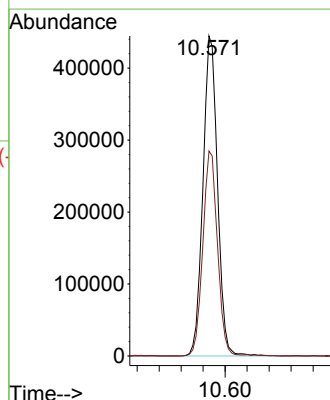
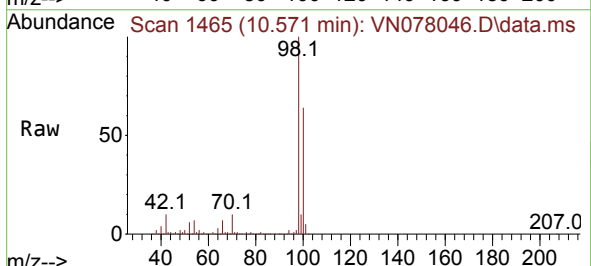
Acq: 05 Jun 2023 15:57

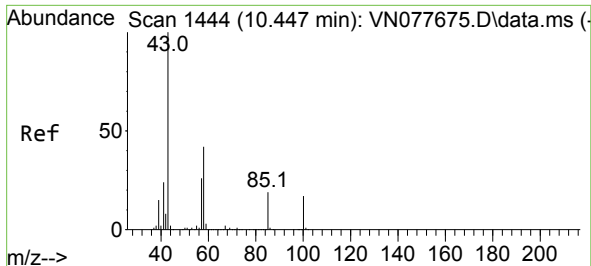
Tgt Ion: 98 Resp: 816982

Ion Ratio Lower Upper

98 100

100 64.7 52.0 78.0

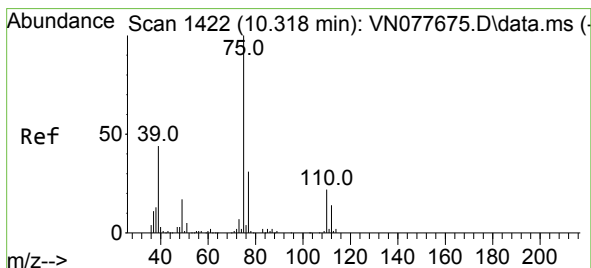
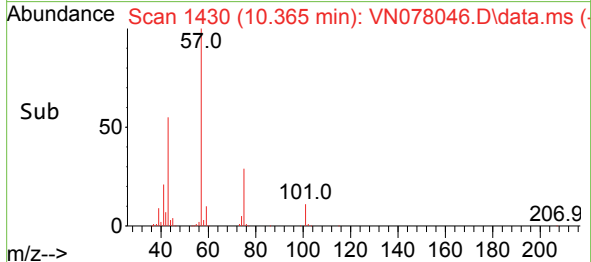
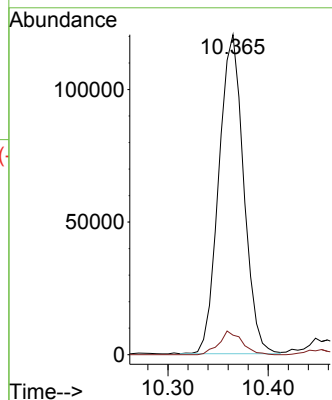
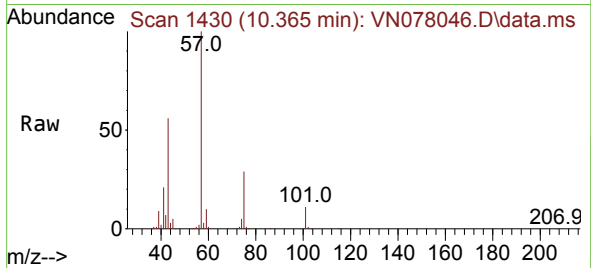




#51  
4-Methyl-2-Pentanone  
Concen: 38.160 ug/l  
RT: 10.365 min Scan# 1430  
Delta R.T. -0.082 min  
Lab File: VN078046.D  
Acq: 05 Jun 2023 15:57

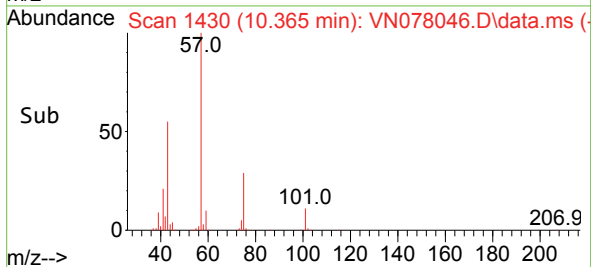
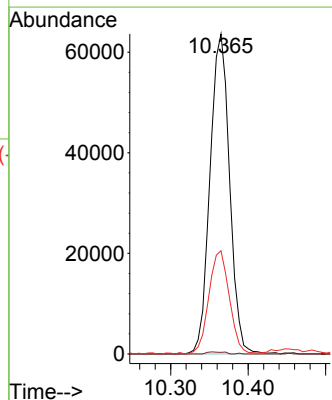
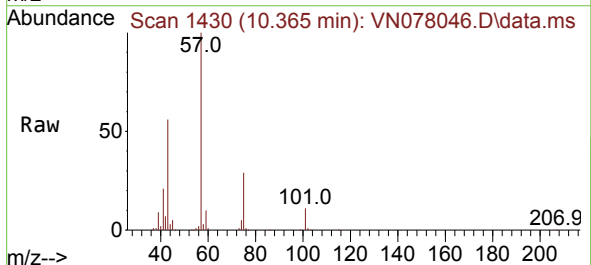
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB153198ZHE#07

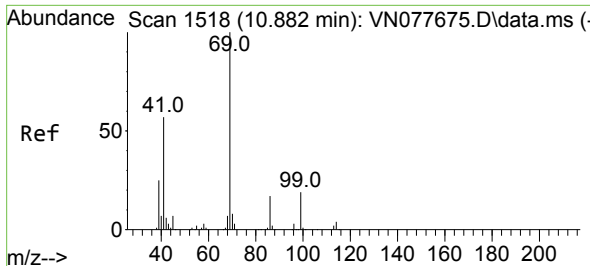
Tgt Ion: 43 Resp: 206764  
Ion Ratio Lower Upper  
43 100  
58 6.9 36.6 54.8#



#54  
cis-1,3-Dichloropropene  
Concen: 14.804 ug/l  
RT: 10.365 min Scan# 1430  
Delta R.T. 0.047 min  
Lab File: VN078046.D  
Acq: 05 Jun 2023 15:57

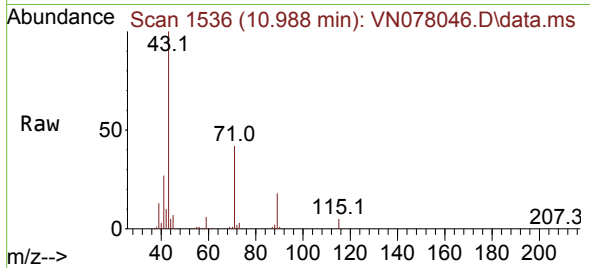
Tgt Ion: 75 Resp: 111541  
Ion Ratio Lower Upper  
75 100  
77 0.5 26.1 39.1#  
39 31.8 31.6 47.4



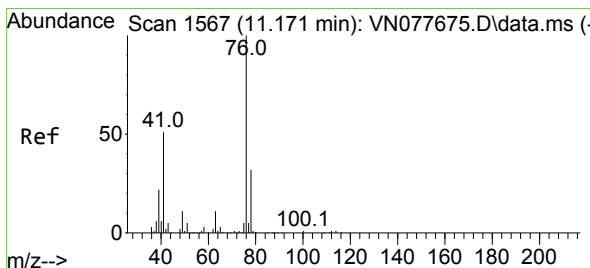
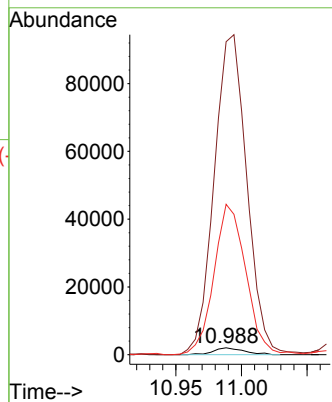
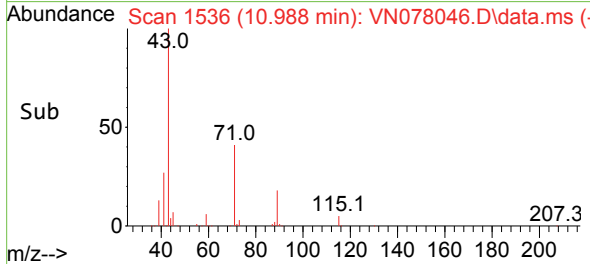


#56  
Ethyl methacrylate  
Concen: 0.471 ug/l  
RT: 10.988 min Scan# 1536  
Delta R.T. 0.106 min  
Lab File: VN078046.D  
Acq: 05 Jun 2023 15:57

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB153198ZHE#07

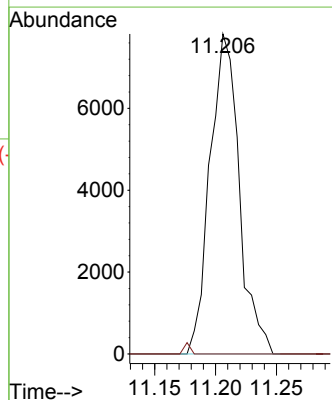
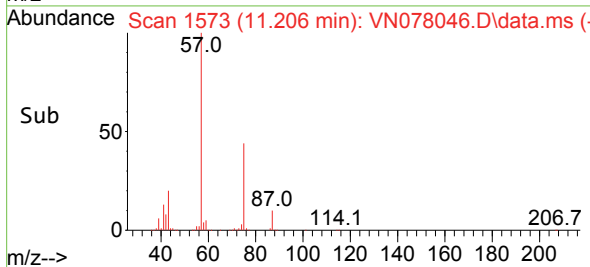
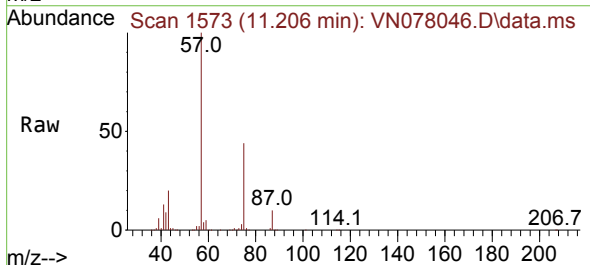


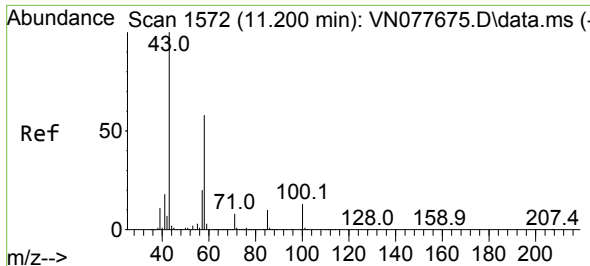
Tgt Ion: 69 Resp: 3255  
Ion Ratio Lower Upper  
69 100  
41 5036.4 39.6 59.4#  
39 2309.2 28.6 43.0#



#57  
1,3-Dichloropropane  
Concen: 1.667 ug/l  
RT: 11.206 min Scan# 1573  
Delta R.T. 0.035 min  
Lab File: VN078046.D  
Acq: 05 Jun 2023 15:57

Tgt Ion: 76 Resp: 13056  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.1 39.1#

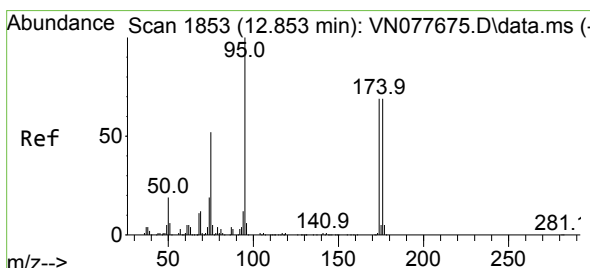
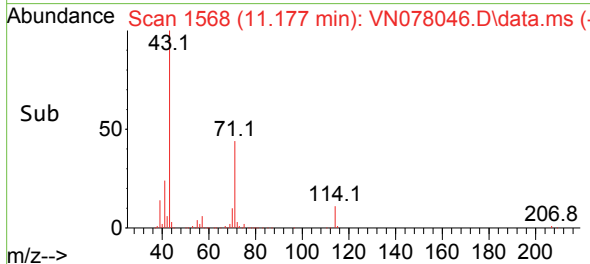
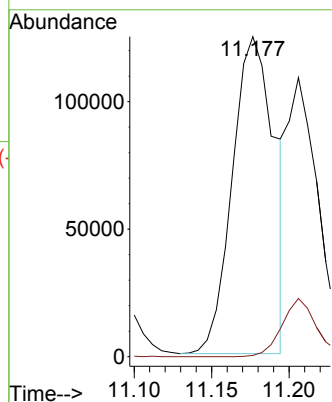
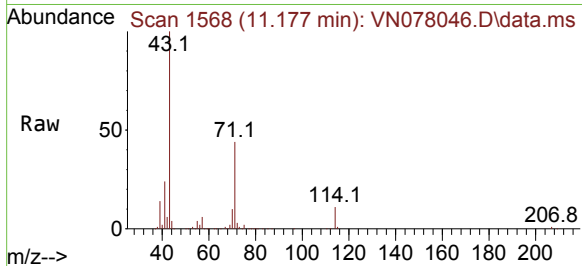




#59  
2-Hexanone  
Concen: 58.607 ug/l  
RT: 11.177 min Scan# 11177  
Delta R.T. -0.023 min  
Lab File: VN078046.D  
Acq: 05 Jun 2023 15:57

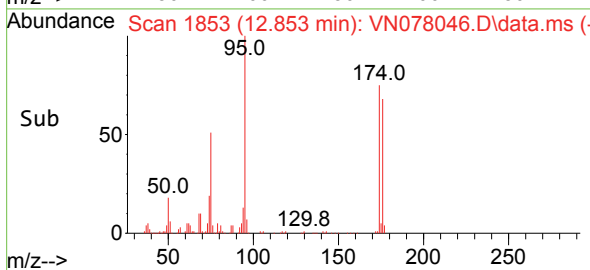
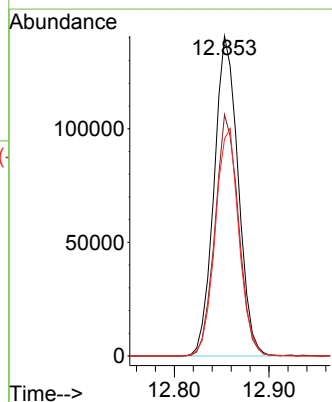
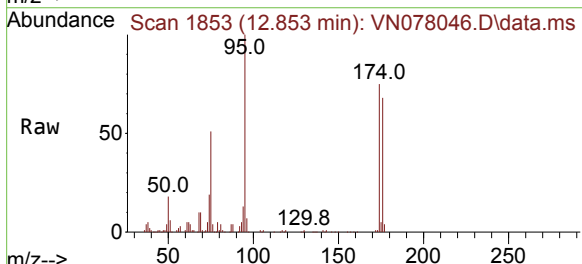
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB153198ZHE#07

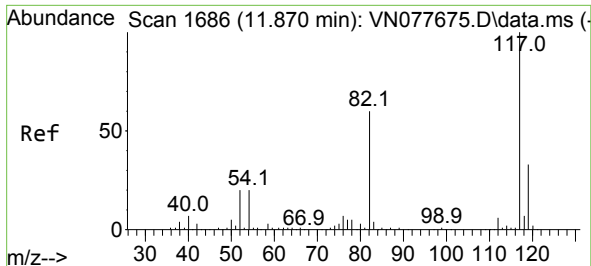
Tgt Ion: 43 Resp: 234884  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.7 95.1#



#62  
4-Bromofluorobenzene  
Concen: 42.691 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.000 min  
Lab File: VN078046.D  
Acq: 05 Jun 2023 15:57

Tgt Ion: 95 Resp: 248436  
Ion Ratio Lower Upper  
95 100  
174 73.8 0.0 143.8  
176 70.3 0.0 135.8

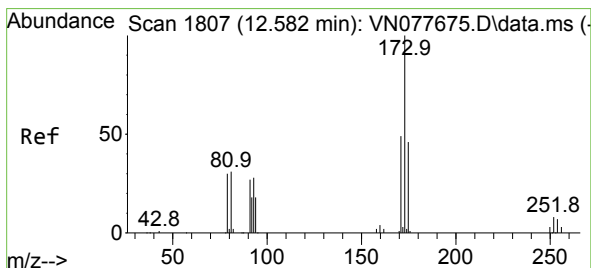
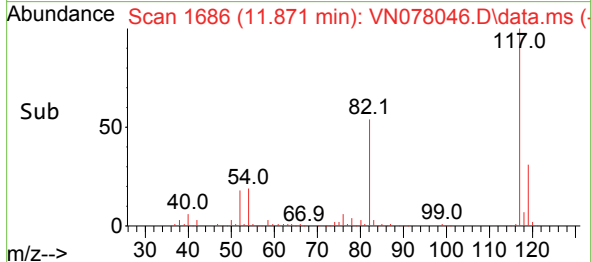
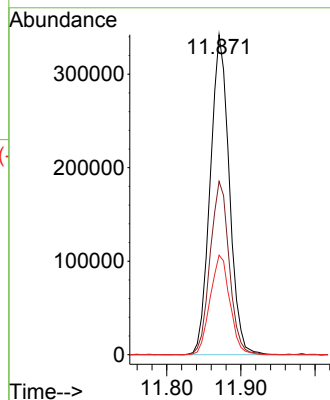
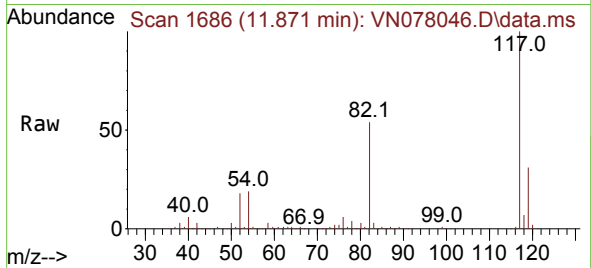




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 117  
Delta R.T. 0.001 min  
Lab File: VN078046.D  
Acq: 05 Jun 2023 15:57

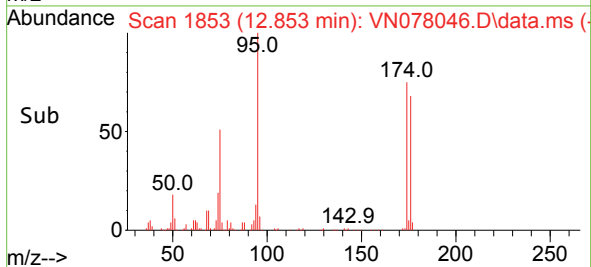
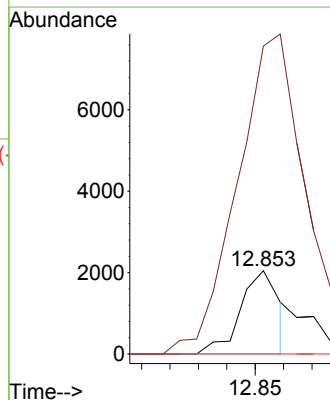
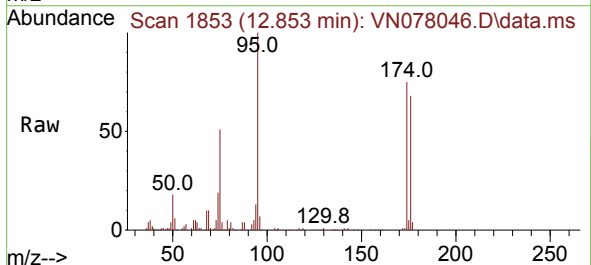
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB153198ZHE#07

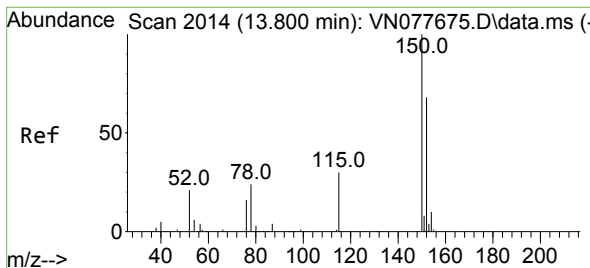
Tgt Ion:117 Resp: 610067  
Ion Ratio Lower Upper  
117 100  
82 54.1 44.0 66.0  
119 31.1 25.6 38.4



#71  
Bromoform  
Concen: 0.640 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.271 min  
Lab File: VN078046.D  
Acq: 05 Jun 2023 15:57

Tgt Ion:173 Resp: 1948  
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: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN078046.D

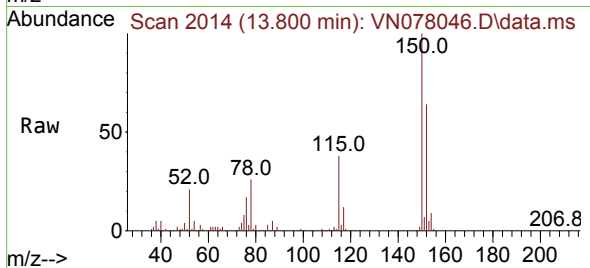
Acq: 05 Jun 2023 15:57

Instrument :

MSVOA\_N

ClientSampleId :

PB153198ZHE#07



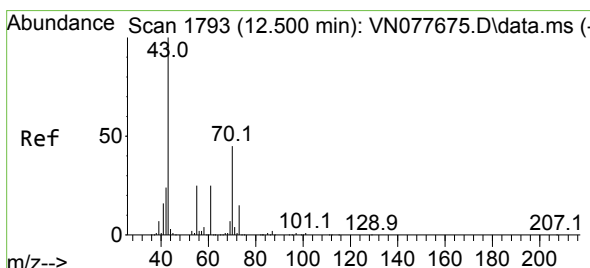
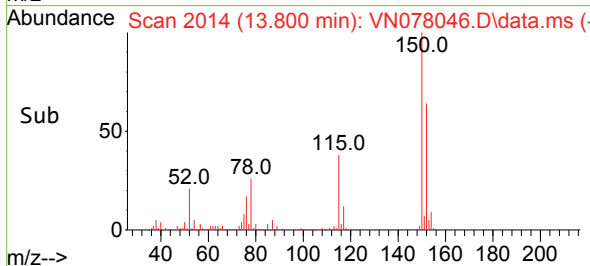
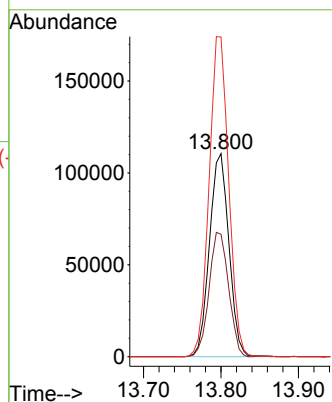
Tgt Ion:152 Resp: 192709

Ion Ratio Lower Upper

152 100

115 61.5 32.3 96.8

150 158.3 0.0 355.8



#74

N-ethyl acetate

Concen: 0.583 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.012 min

Lab File: VN078046.D

Acq: 05 Jun 2023 15:57

Tgt Ion: 43 Resp: 3578

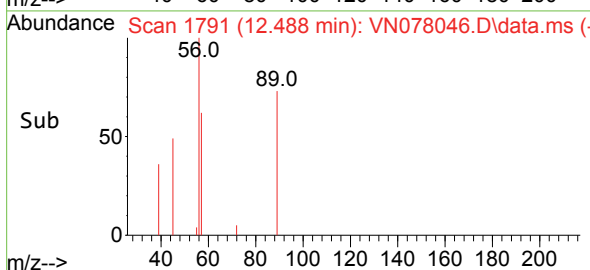
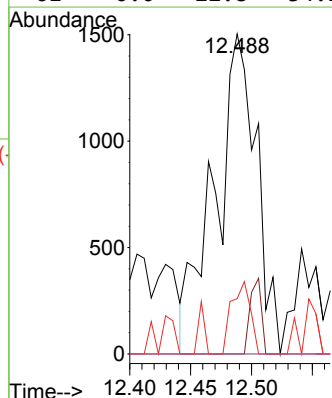
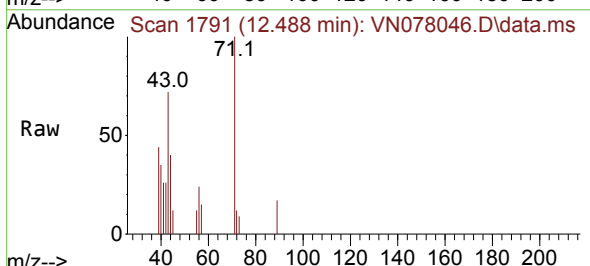
Ion Ratio Lower Upper

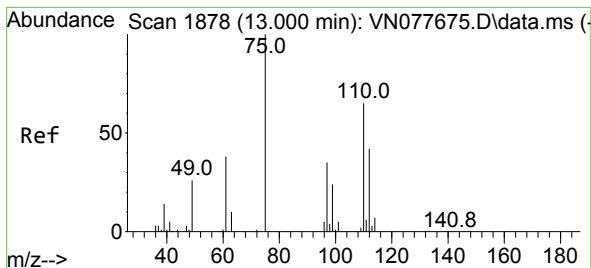
43 100

70 6.4 43.4 65.2#

55 10.2 21.4 32.0#

61 0.0 22.8 34.2#





#76

1,2,3-Trichloropropane

Concen: 26.583 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078046.D

Acq: 05 Jun 2023 15:57

Instrument :

MSVOA\_N

ClientSampleId :

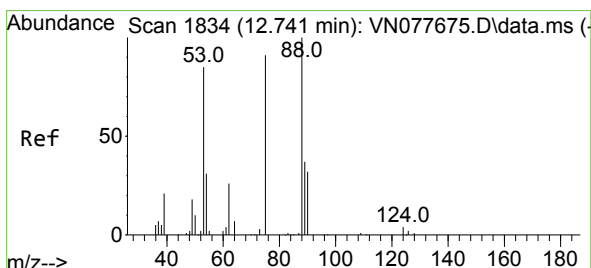
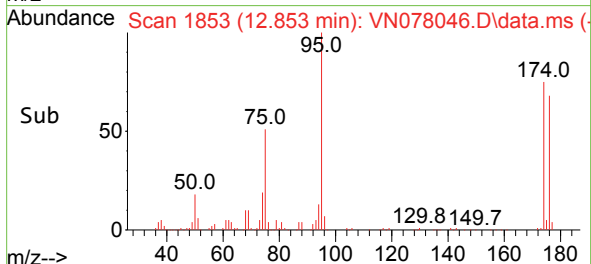
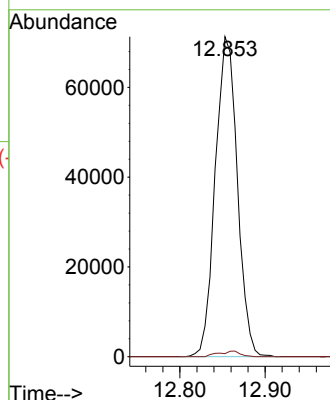
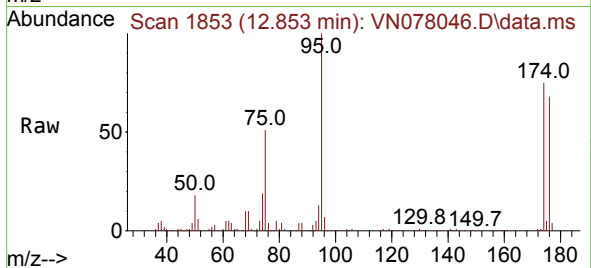
PB153198ZHE#07

Tgt Ion: 75 Resp: 128291

Ion Ratio Lower Upper

75 100

77 1.7 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 84.972 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078046.D

Acq: 05 Jun 2023 15:57

Tgt Ion: 75 Resp: 128291

Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

89 0.0 38.8 58.2#

