

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN060223\  
 Data File : VN078027.D  
 Acq On : 02 Jun 2023 13:21  
 Operator : JC\MD  
 Sample : PB153165ZHE#04  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB153165ZHE#04

Quant Time: Jun 05 01:11:16 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

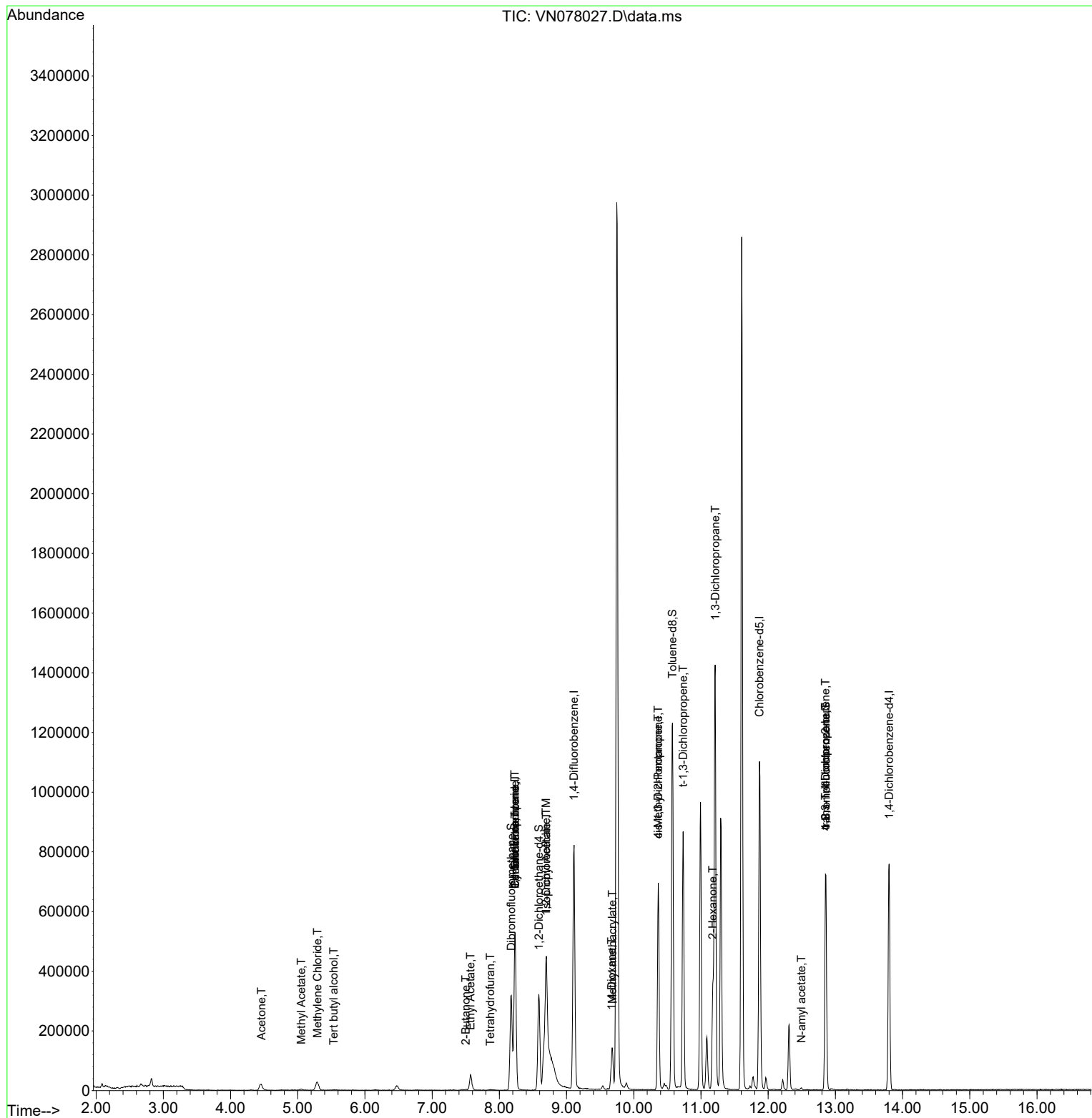
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.235          | 168  | 378789     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.112          | 114  | 726154     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.870         | 117  | 666834     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.800         | 152  | 209538     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.588          | 65   | 266370     | 46.998    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 94.000%   |        |          |
| 35) Dibromofluoromethane      | 8.177          | 113  | 229821     | 48.535    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 97.060%   |        |          |
| 50) Toluene-d8                | 10.576         | 98   | 906182     | 49.719    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 99.440%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.859         | 95   | 269337     | 41.842    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 83.680%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 3) Chloromethane              | 2.371          | 50   | 1021       | Below Cal | #      | 52       |
| 11) Tert butyl alcohol        | 5.536          | 59   | 1202       | 1.537     | ug/l # | 87       |
| 13) Acrolein                  | 4.200          | 56   | 74         | Below Cal | #      | 27       |
| 16) Acetone                   | 4.459          | 43   | 41769      | 23.425    | ug/l # | 88       |
| 18) Methyl Acetate            | 5.053          | 43   | 7376       | 0.986     | ug/l # | 64       |
| 20) Methylene Chloride        | 5.294          | 84   | 22831      | 3.065     | ug/l # | 78       |
| 25) 2-Butanone                | 7.500          | 43   | 4353       | 1.561     | ug/l # | 65       |
| 29) Tetrahydrofuran           | 7.865          | 42   | 1308       | 0.716     | ug/l # | 59       |
| 31) Cyclohexane               | 8.235          | 56   | 8708       | 1.130     | ug/l # | 37       |
| 36) 1,1-Dichloropropene       | 8.229          | 75   | 32317      | 4.666     | ug/l # | 49       |
| 37) Ethyl Acetate             | 7.571          | 43   | 73423      | 11.894    | ug/l   | 96       |
| 38) Carbon Tetrachloride      | 8.229          | 117  | 40810      | 5.835     | ug/l # | 15       |
| 42) 1,2-Dichloroethane        | 8.694          | 62   | 3314       | 0.446     | ug/l # | 73       |
| 43) Isopropyl Acetate         | 8.700          | 43   | 830890     | 82.404    | ug/l # | 64       |
| 48) Methyl methacrylate       | 9.682          | 41   | 8376       | 1.752     | ug/l # | 4        |
| 49) 1,4-Dioxane               | 9.671          | 88   | 152        | 1.683     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.365         | 43   | 240173     | 40.072    | ug/l # | 41       |
| 53) t-1,3-Dichloropropene     | 10.735         | 75   | 2946       | 0.390     | ug/l # | 77       |
| 54) cis-1,3-Dichloropropene   | 10.365         | 75   | 127440     | 15.291    | ug/l # | 67       |
| 57) 1,3-Dichloropropane       | 11.212         | 76   | 16305      | 1.883     | ug/l # | 43       |
| 59) 2-Hexanone                | 11.176         | 43   | 266762     | 60.174    | ug/l # | 19       |
| 74) N-amyl acetate            | 12.494         | 43   | 2561       | 0.384     | ug/l # | 36       |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 145923     | 27.808    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 145923     | 88.888    | ug/l # | 15       |
| -----                         |                |      |            |           |        |          |

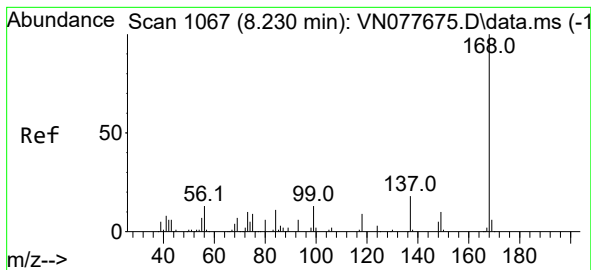
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Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN060223\  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 16 04:07:42 2023  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 10

Delta R.T. 0.005 min

Lab File: VN078027.D

Acq: 02 Jun 2023 13:21

Instrument :

MSVOA\_N

ClientSampleId :

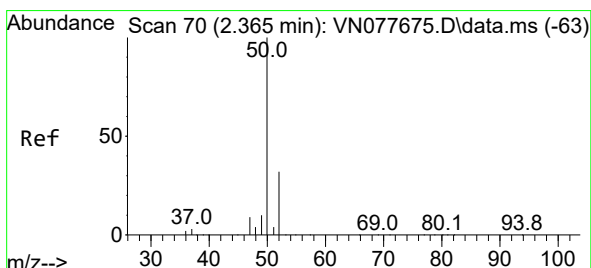
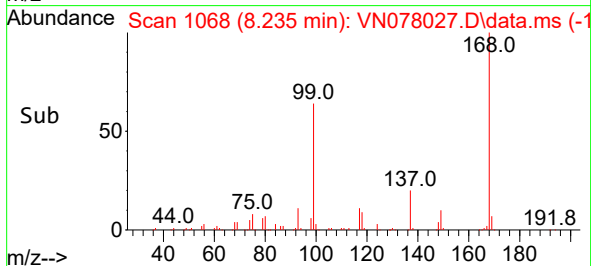
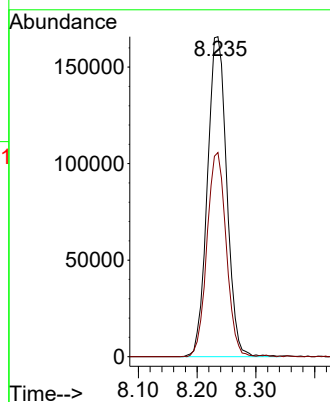
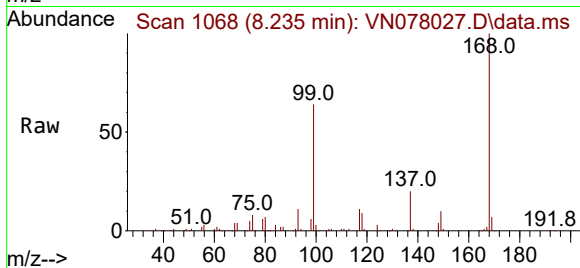
PB153165ZHE#04

Tgt Ion:168 Resp: 378789

Ion Ratio Lower Upper

168 100

99 63.8 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.371 min Scan# 71

Delta R.T. 0.006 min

Lab File: VN078027.D

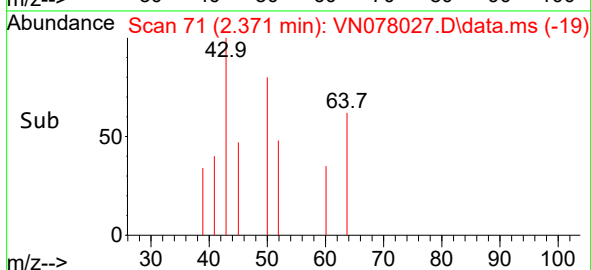
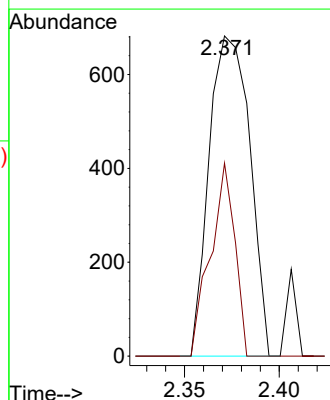
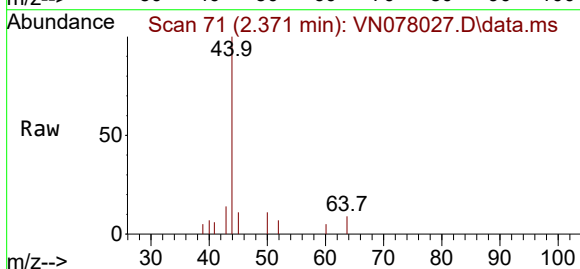
Acq: 02 Jun 2023 13:21

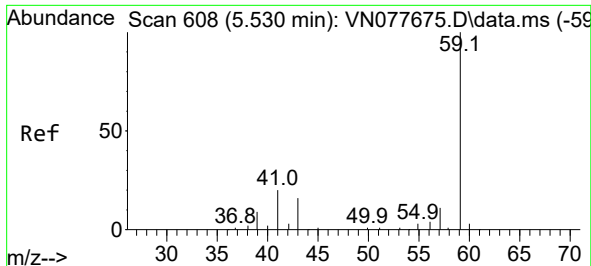
Tgt Ion: 50 Resp: 1021

Ion Ratio Lower Upper

50 100

52 60.3 26.5 39.7#

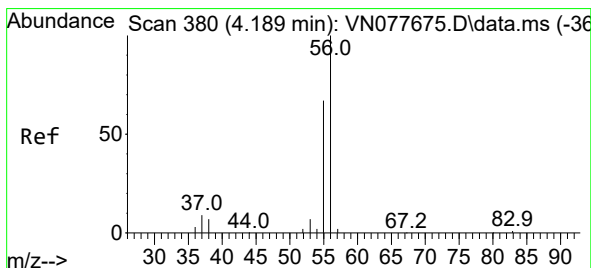
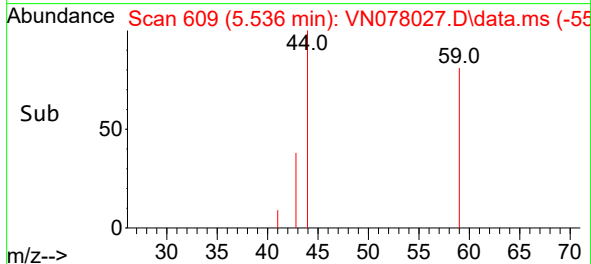
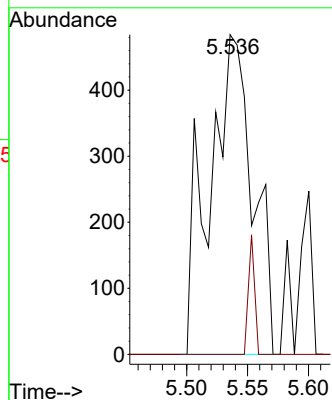
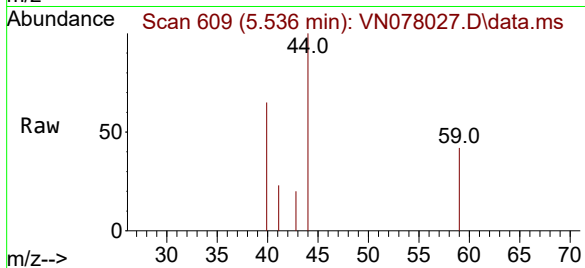




#11  
Tert butyl alcohol  
Concen: 1.537 ug/l  
RT: 5.536 min Scan# 608  
Delta R.T. 0.006 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

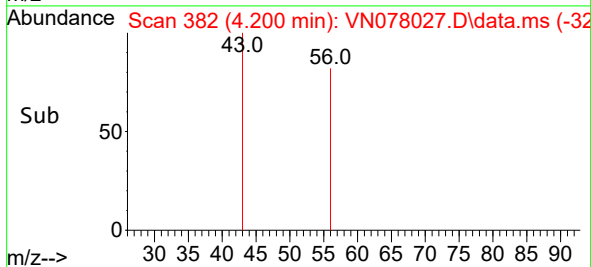
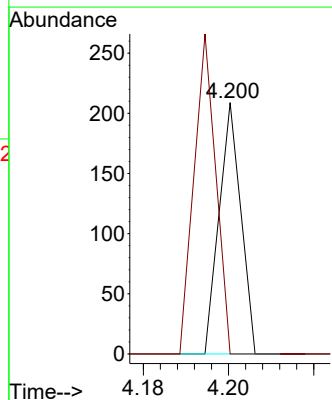
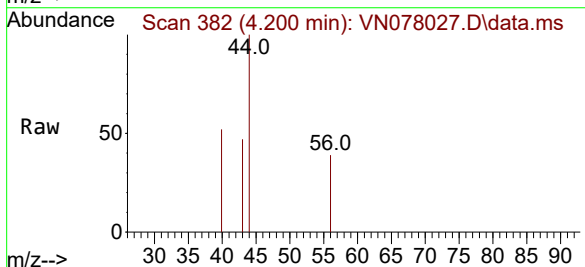
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB153165ZHE#04

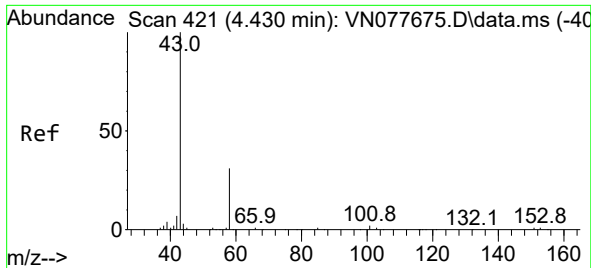
Tgt Ion: 59 Resp: 1202  
Ion Ratio Lower Upper  
59 100  
57 5.3 8.2 12.4#



#13  
Acrolein  
Concen: Below Cal  
RT: 4.200 min Scan# 382  
Delta R.T. 0.011 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

Tgt Ion: 56 Resp: 74  
Ion Ratio Lower Upper  
56 100  
55 127.0 54.5 81.7#

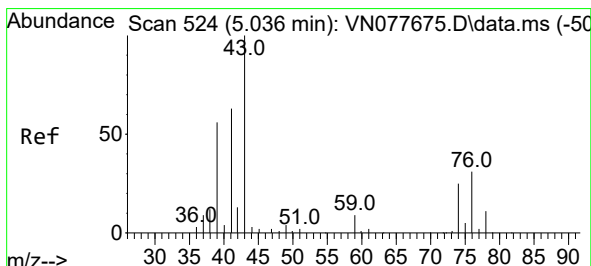
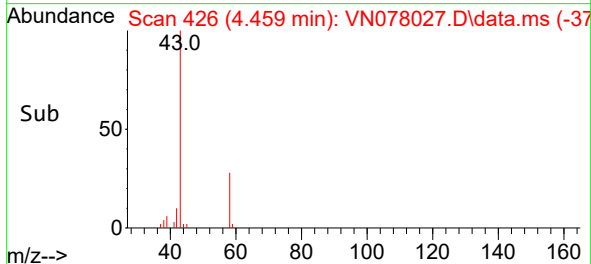
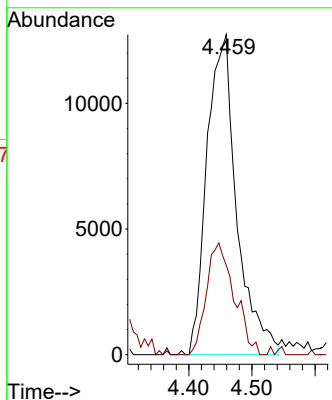
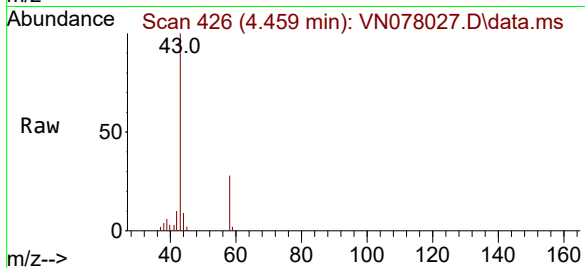




#16  
Acetone  
Concen: 23.425 ug/l  
RT: 4.459 min Scan# 41  
Delta R.T. 0.029 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

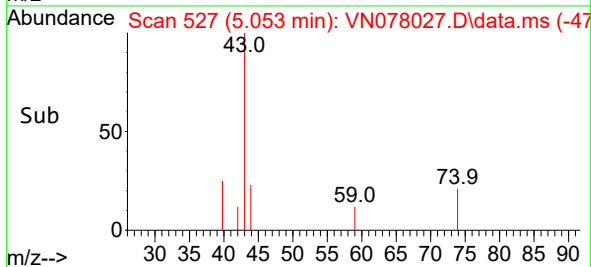
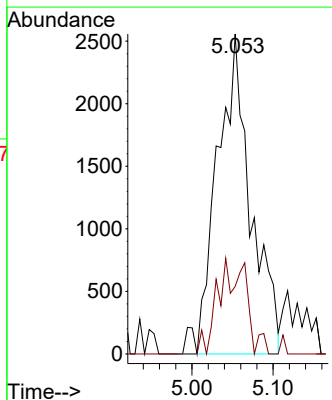
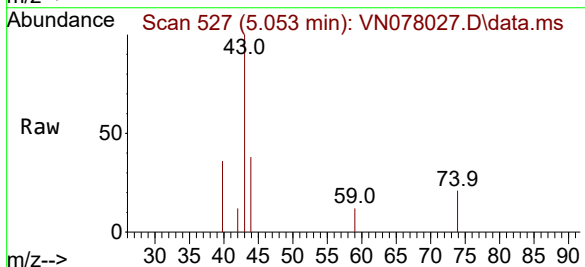
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB153165ZHE#04

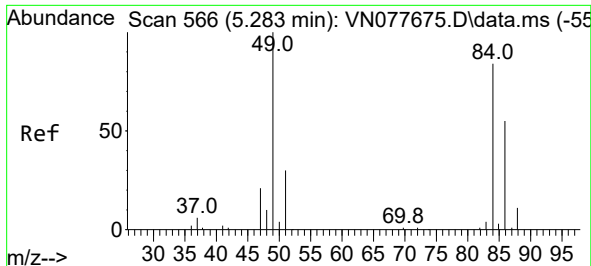
Tgt Ion: 43 Resp: 41769  
Ion Ratio Lower Upper  
43 100  
58 28.0 28.0 42.0#



#18  
Methyl Acetate  
Concen: 0.986 ug/l  
RT: 5.053 min Scan# 527  
Delta R.T. 0.017 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

Tgt Ion: 43 Resp: 7376  
Ion Ratio Lower Upper  
43 100  
74 12.6 26.2 39.4#

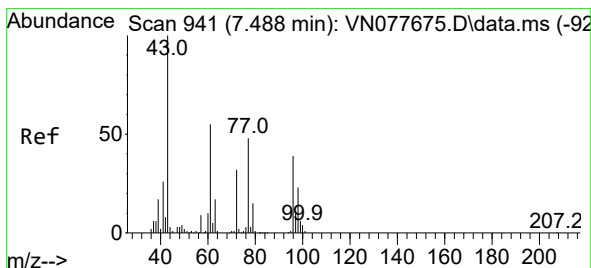
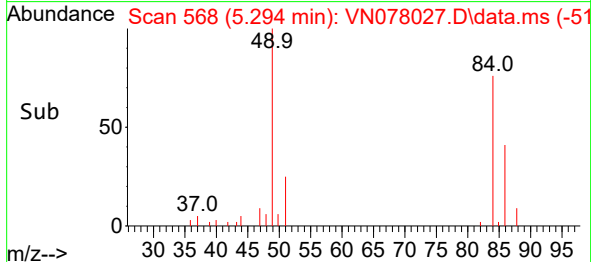
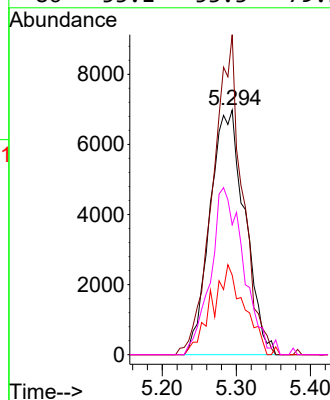
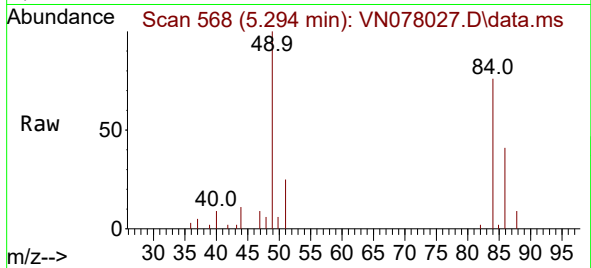




#20  
Methylene Chloride  
Concen: 3.065 ug/l  
RT: 5.294 min Scan# 51  
Delta R.T. 0.011 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

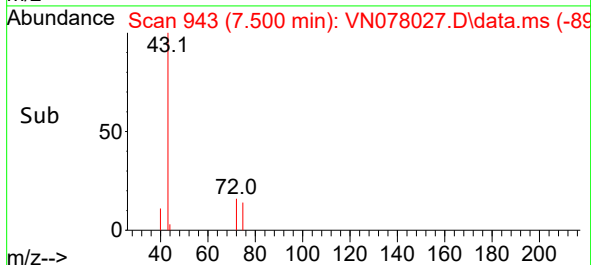
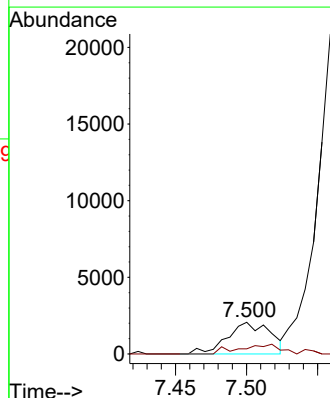
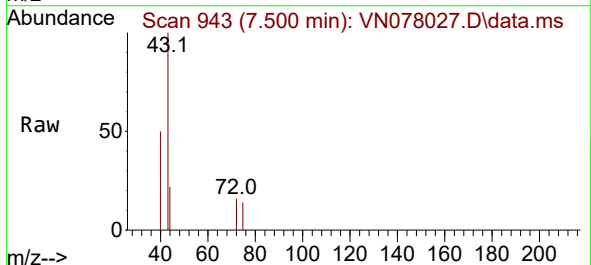
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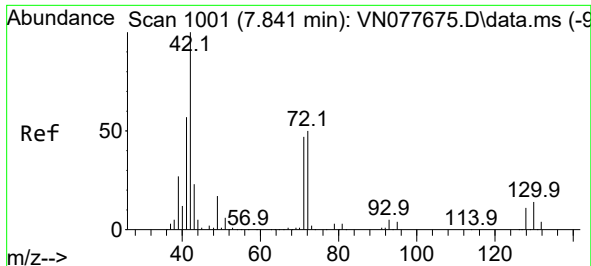
Tgt Ion: 84 Resp: 22831  
Ion Ratio Lower Upper  
84 100  
49 130.8 79.7 119.5#  
51 32.5 25.2 37.8  
86 53.1 53.3 79.9#



#25  
2-Butanone  
Concen: 1.561 ug/l  
RT: 7.500 min Scan# 943  
Delta R.T. 0.012 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

Tgt Ion: 43 Resp: 4353  
Ion Ratio Lower Upper  
43 100  
72 16.4 30.2 45.2#





#29

Tetrahydrofuran

Concen: 0.716 ug/l

RT: 7.865 min Scan# 1005

Delta R.T. 0.024 min

Lab File: VN078027.D

Acq: 02 Jun 2023 13:21

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MSVOA\_N

ClientSampleId :

PB153165ZHE#04

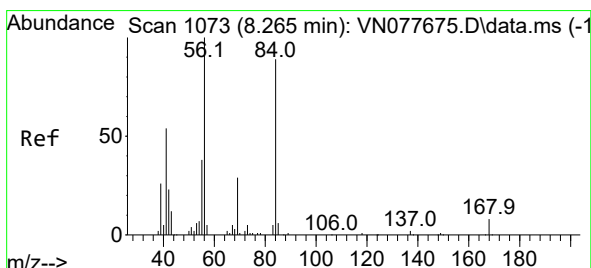
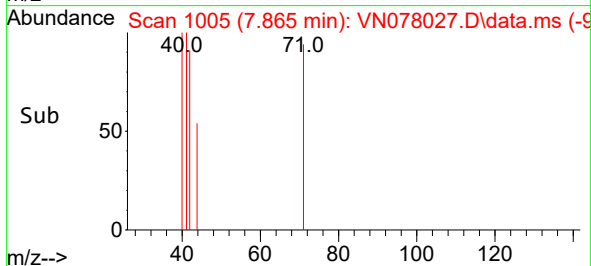
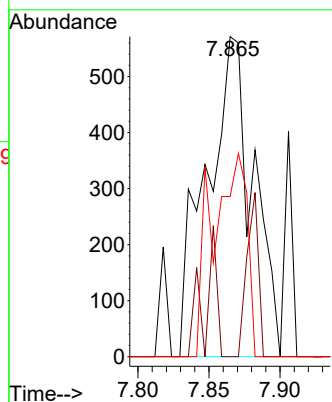
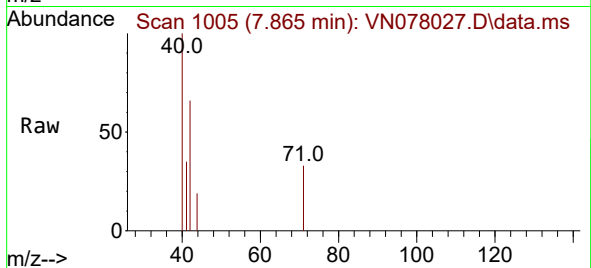
Tgt Ion: 42 Resp: 1308

Ion Ratio Lower Upper

42 100

72 12.7 49.8 74.6#

71 46.8 47.4 71.2#



#31

Cyclohexane

Concen: 1.130 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.030 min

Lab File: VN078027.D

Acq: 02 Jun 2023 13:21

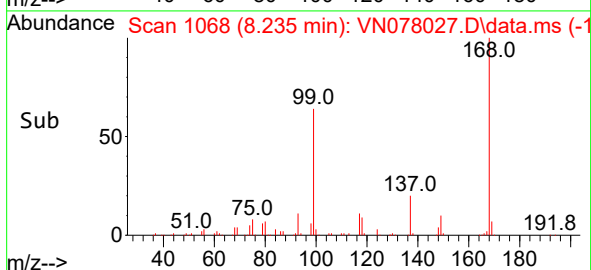
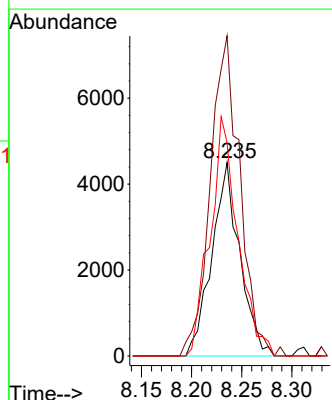
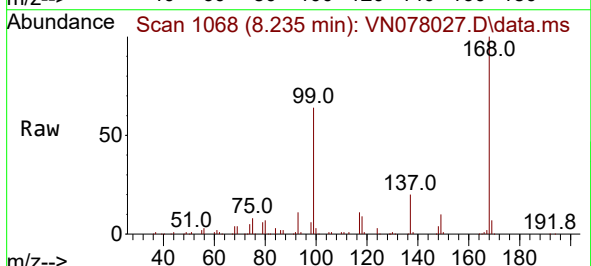
Tgt Ion: 56 Resp: 8708

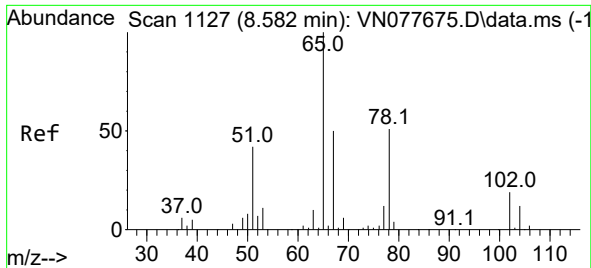
Ion Ratio Lower Upper

56 100

69 165.4 26.8 40.2#

84 110.2 81.8 122.6

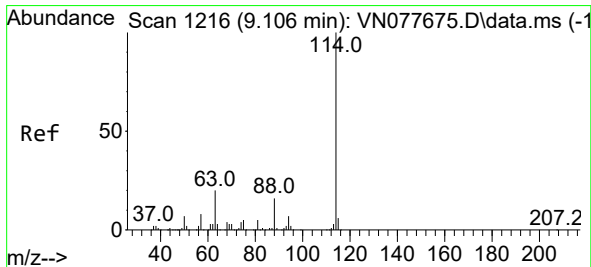
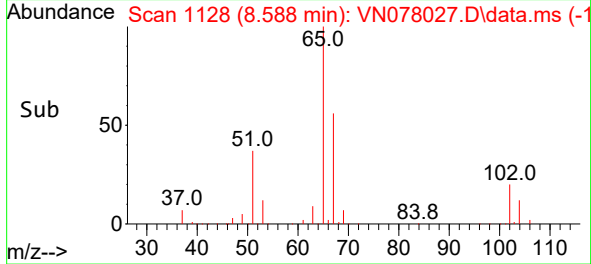
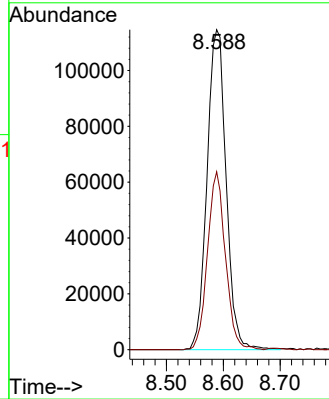
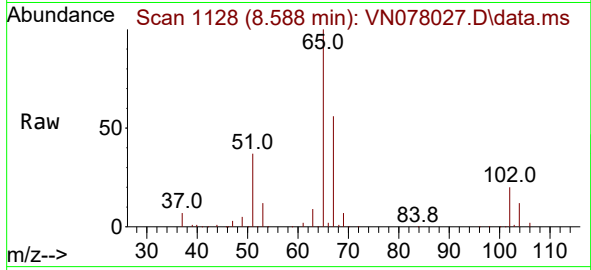




#33  
 1,2-Dichloroethane-d4  
 Concen: 46.998 ug/l  
 RT: 8.588 min Scan# 1127  
 Delta R.T. 0.006 min  
 Lab File: VN078027.D  
 Acq: 02 Jun 2023 13:21

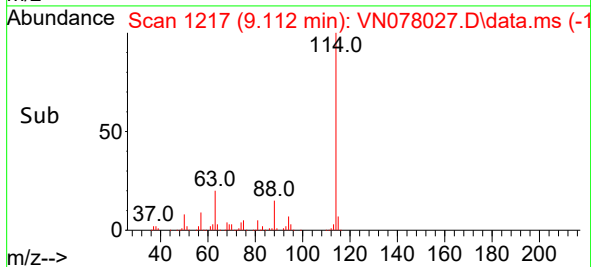
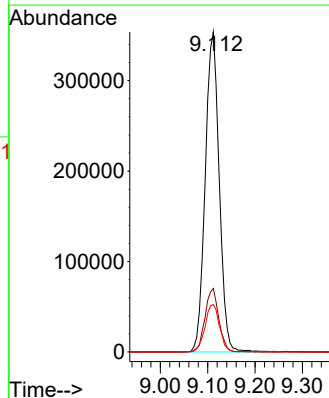
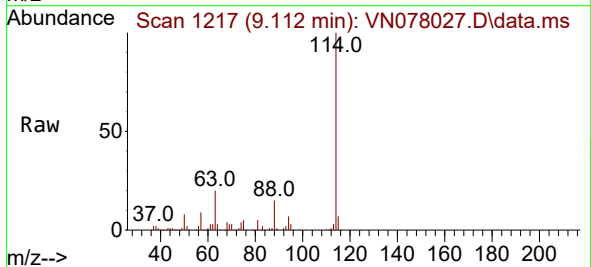
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB153165ZHE#04

Tgt Ion: 65 Resp: 266370  
 Ion Ratio Lower Upper  
 65 100  
 67 52.3 0.0 106.6

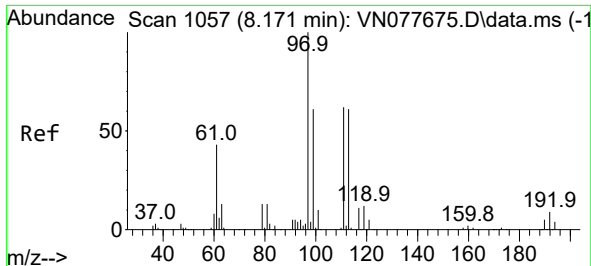


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 9.112 min Scan# 1217  
 Delta R.T. 0.006 min  
 Lab File: VN078027.D  
 Acq: 02 Jun 2023 13:21

Tgt Ion: 114 Resp: 726154  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 0.0 36.4  
 88 14.8 0.0 30.6

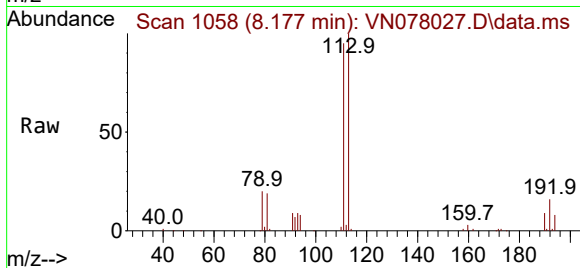




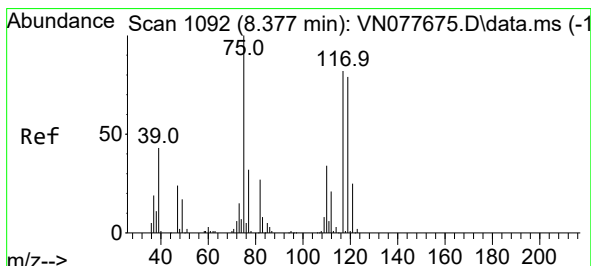
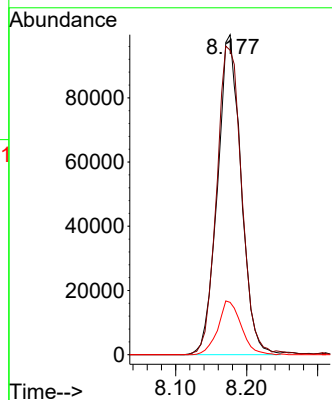
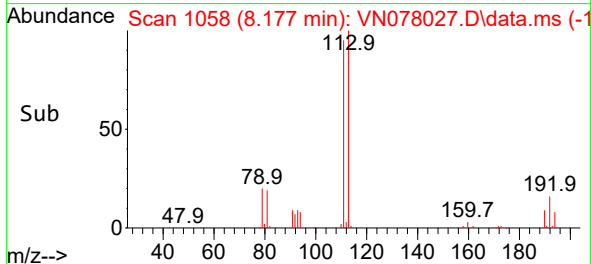


#35  
Dibromofluoromethane  
Concen: 48.535 ug/l  
RT: 8.177 min Scan# 1057  
Delta R.T. 0.006 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB153165ZHE#04

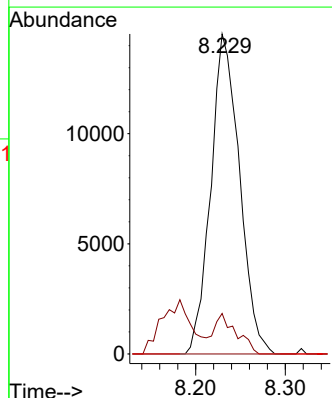
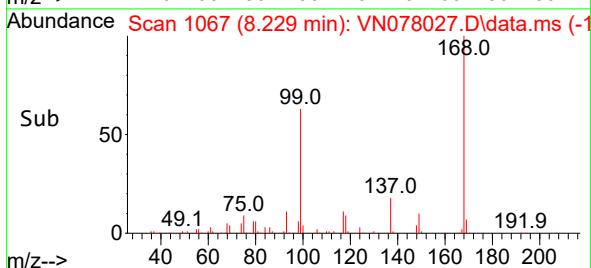
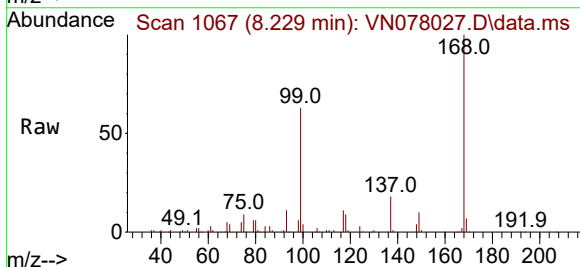


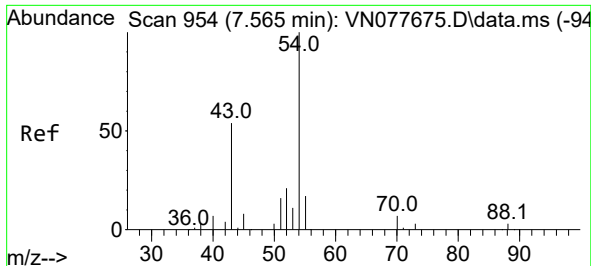
Tgt Ion:113 Resp: 229821  
Ion Ratio Lower Upper  
113 100  
111 102.3 82.6 123.8  
192 16.5 12.7 19.1



#36  
1,1-Dichloropropene  
Concen: 4.666 ug/l  
RT: 8.229 min Scan# 1067  
Delta R.T. -0.148 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

Tgt Ion: 75 Resp: 32317  
Ion Ratio Lower Upper  
75 100  
110 9.8 19.1 57.3#  
77 0.0 25.0 37.4#

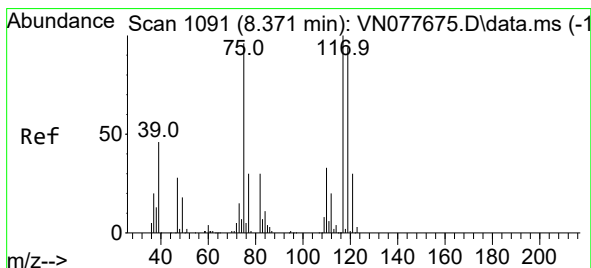
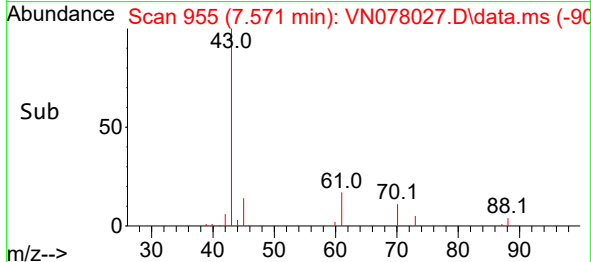
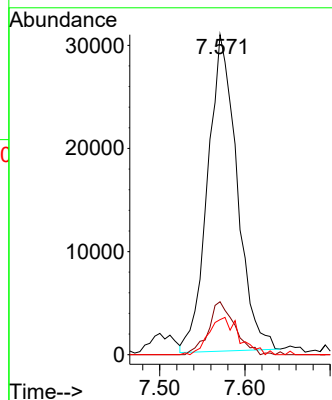
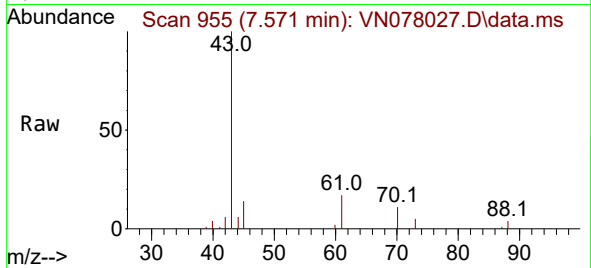




#37  
Ethyl Acetate  
Concen: 11.894 ug/l  
RT: 7.571 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

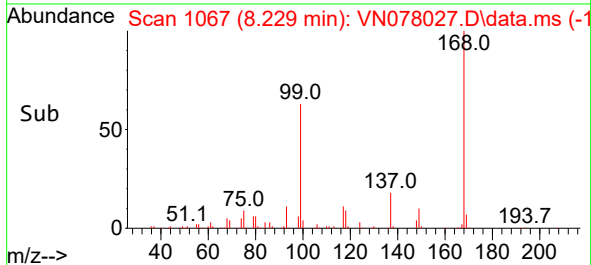
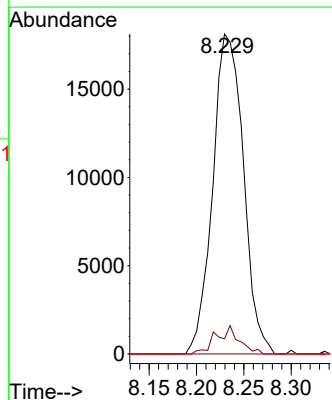
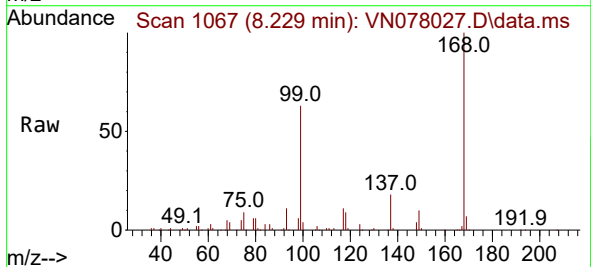
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB153165ZHE#04

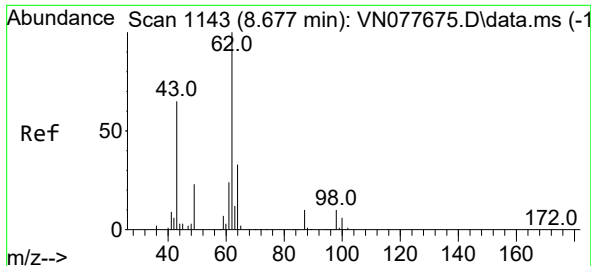
Tgt Ion: 43 Resp: 73423  
Ion Ratio Lower Upper  
43 100  
61 15.1 13.2 19.8  
70 12.3 11.3 16.9



#38  
Carbon Tetrachloride  
Concen: 5.835 ug/l  
RT: 8.229 min Scan# 1067  
Delta R.T. -0.142 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

Tgt Ion: 117 Resp: 40810  
Ion Ratio Lower Upper  
117 100  
119 4.8 77.3 115.9#  
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.446 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.017 min

Lab File: VN078027.D

Acq: 02 Jun 2023 13:21

Instrument :

MSVOA\_N

ClientSampleId :

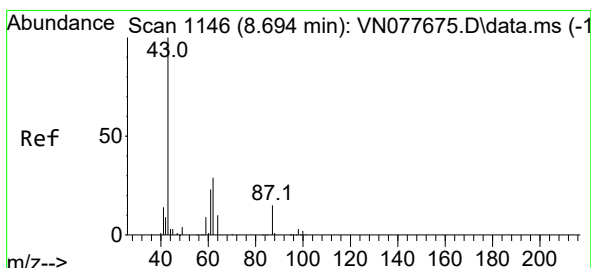
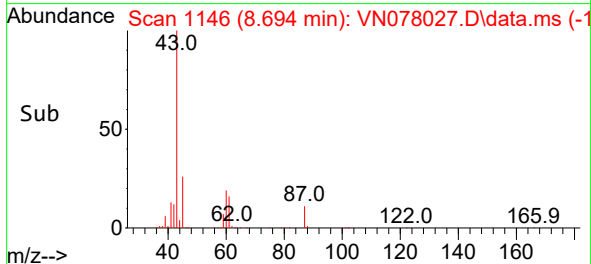
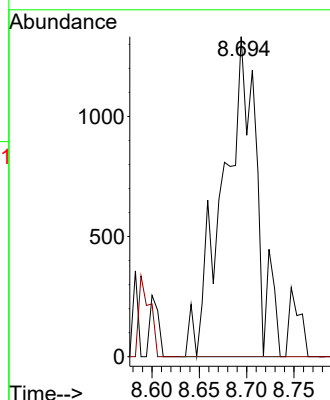
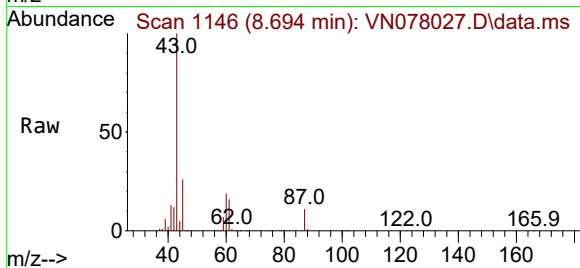
PB153165ZHE#04

Tgt Ion: 62 Resp: 3314

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 82.404 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN078027.D

Acq: 02 Jun 2023 13:21

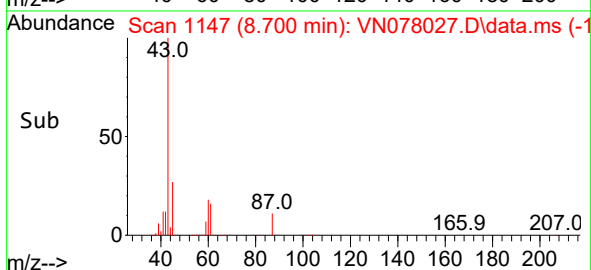
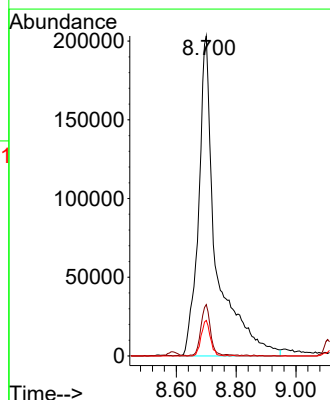
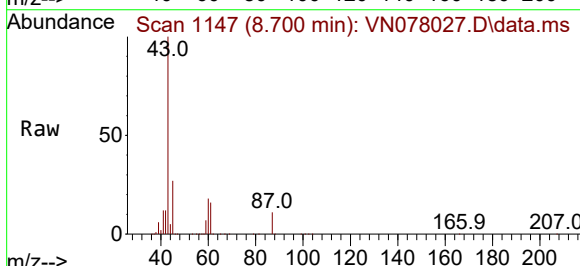
Tgt Ion: 43 Resp: 830890

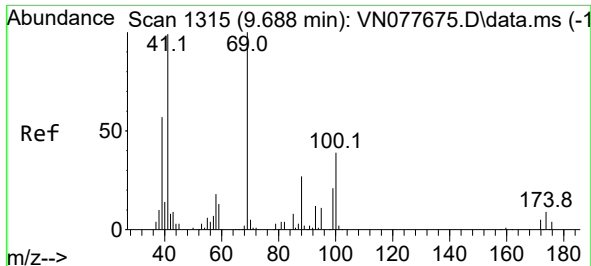
Ion Ratio Lower Upper

43 100

61 8.7 24.7 37.1#

87 5.8 14.6 21.8#

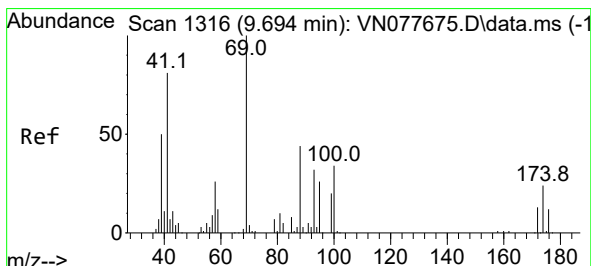
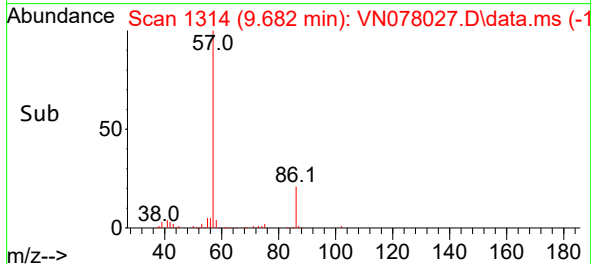
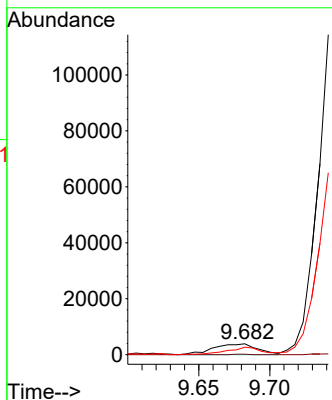
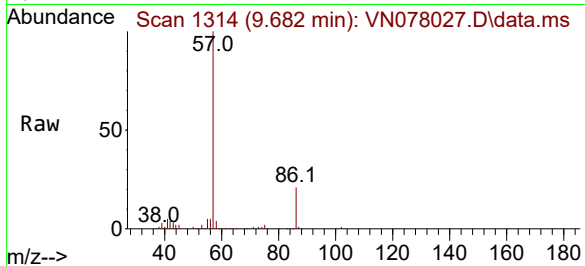




#48  
Methyl methacrylate  
Concen: 1.752 ug/l  
RT: 9.682 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

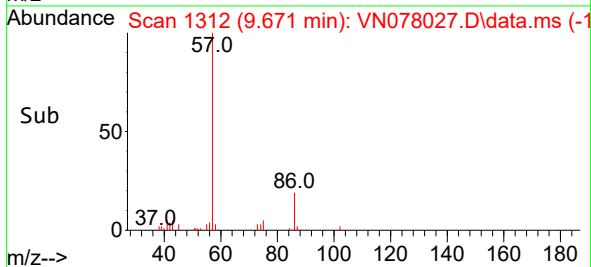
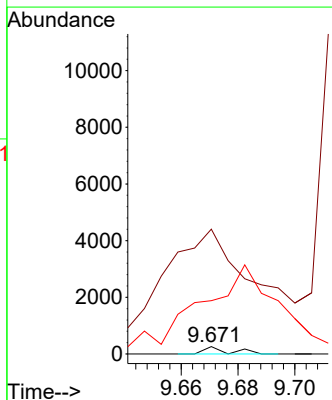
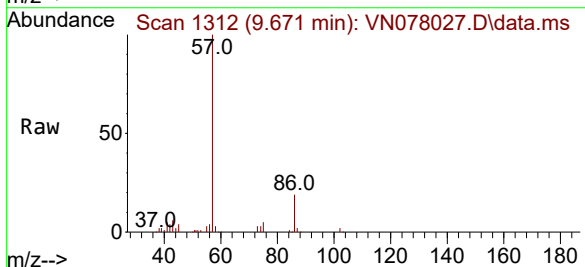
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB153165ZHE#04

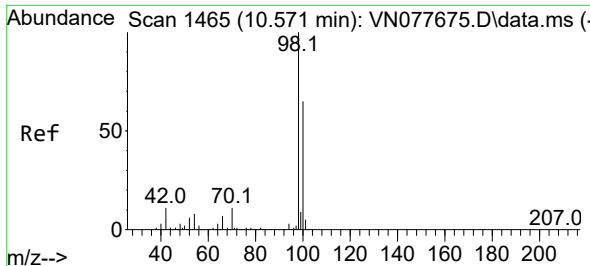
Tgt Ion: 41 Resp: 8376  
Ion Ratio Lower Upper  
41 100  
69 1.6 90.4 135.6#  
39 0.0 54.6 81.8#



#49  
1,4-Dioxane  
Concen: 1.683 ug/l  
RT: 9.671 min Scan# 1312  
Delta R.T. -0.023 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

Tgt Ion: 88 Resp: 152  
Ion Ratio Lower Upper  
88 100  
43 0.0 17.0 25.6#  
58 4175.7 47.0 70.4#

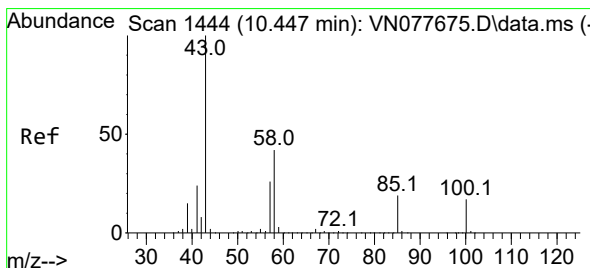
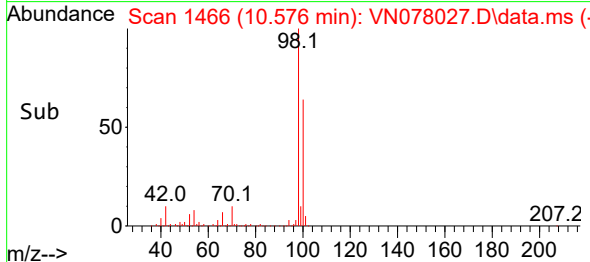
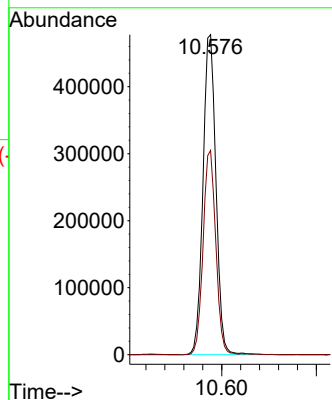
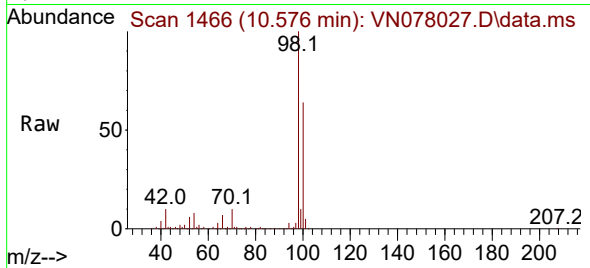




#50  
Toluene-d8  
Concen: 49.719 ug/l  
RT: 10.576 min Scan# 1465  
Delta R.T. 0.005 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

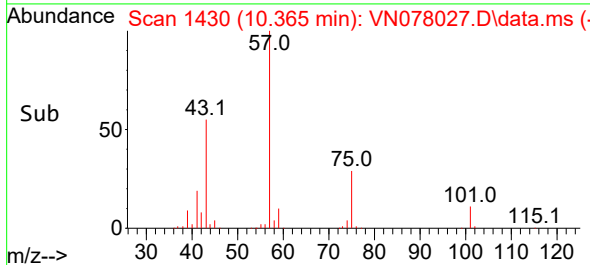
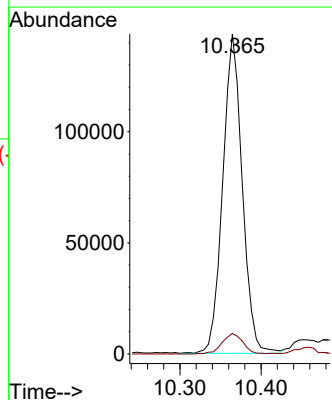
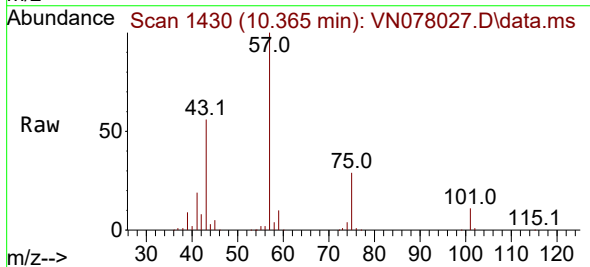
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB153165ZHE#04

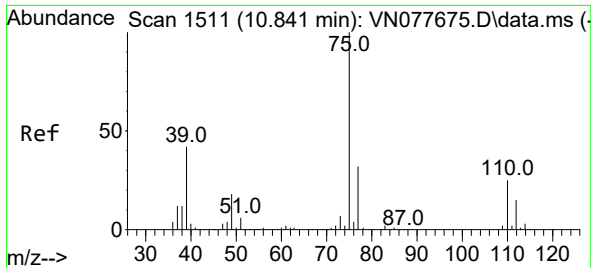
Tgt Ion: 98 Resp: 906182  
Ion Ratio Lower Upper  
98 100  
100 62.4 52.0 78.0



#51  
4-Methyl-2-Pentanone  
Concen: 40.072 ug/l  
RT: 10.365 min Scan# 1430  
Delta R.T. -0.082 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

Tgt Ion: 43 Resp: 240173  
Ion Ratio Lower Upper  
43 100  
58 6.8 36.6 54.8#

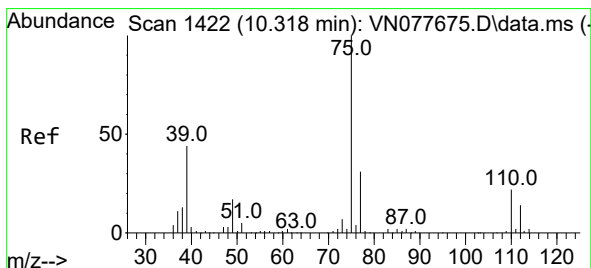
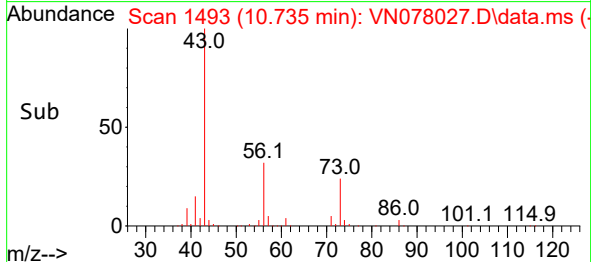
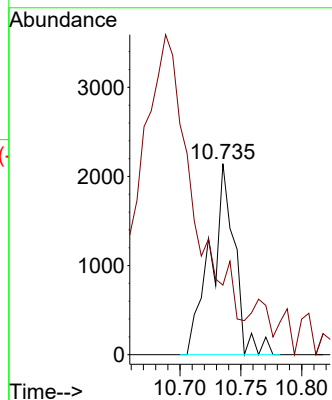
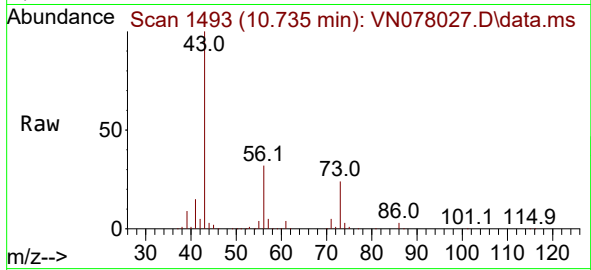




#53  
 t-1,3-Dichloropropene  
 Concen: 0.390 ug/l  
 RT: 10.735 min Scan# 1493  
 Delta R.T. -0.106 min  
 Lab File: VN078027.D  
 Acq: 02 Jun 2023 13:21

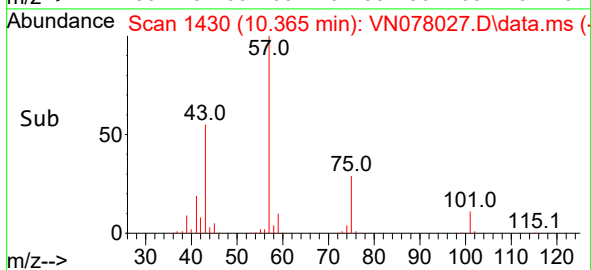
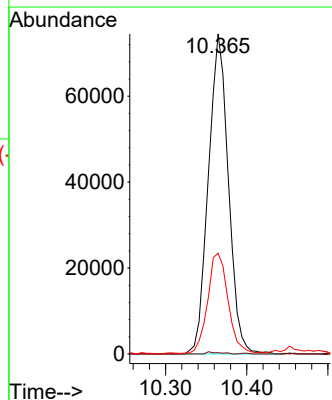
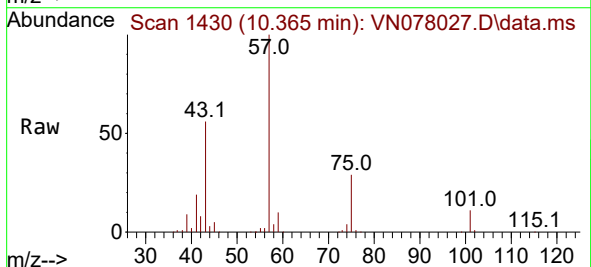
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB153165ZHE#04

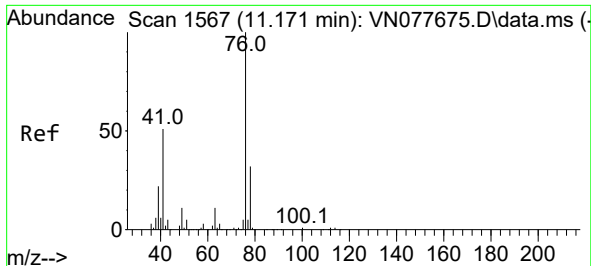
Tgt Ion: 75 Resp: 2946  
 Ion Ratio Lower Upper  
 75 100  
 77 19.1 25.4 38.0#



#54  
 cis-1,3-Dichloropropene  
 Concen: 15.291 ug/l  
 RT: 10.365 min Scan# 1430  
 Delta R.T. 0.047 min  
 Lab File: VN078027.D  
 Acq: 02 Jun 2023 13:21

Tgt Ion: 75 Resp: 127440  
 Ion Ratio Lower Upper  
 75 100  
 77 0.4 26.1 39.1#  
 39 31.3 31.6 47.4#





#57

1,3-Dichloropropane

Concen: 1.883 ug/l

RT: 11.212 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN078027.D

Acq: 02 Jun 2023 13:21

Instrument :

MSVOA\_N

ClientSampleId :

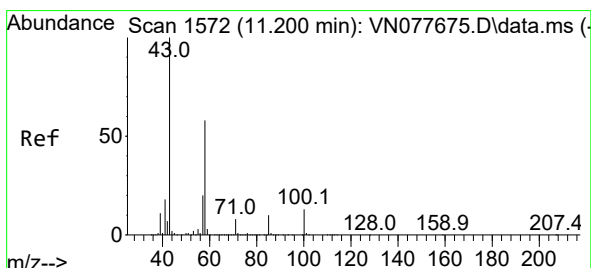
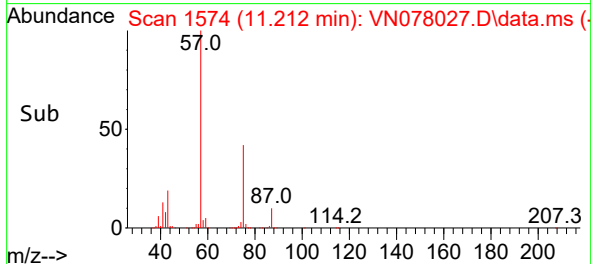
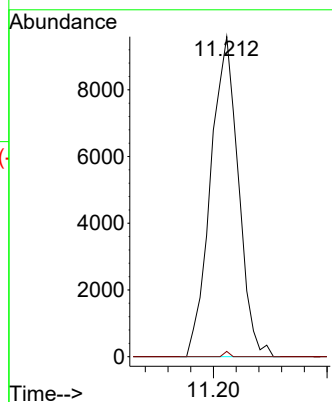
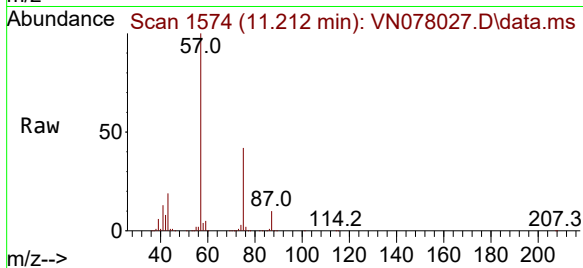
PB153165ZHE#04

Tgt Ion: 76 Resp: 16305

Ion Ratio Lower Upper

76 100

78 0.3 26.1 39.1#



#59

2-Hexanone

Concen: 60.174 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078027.D

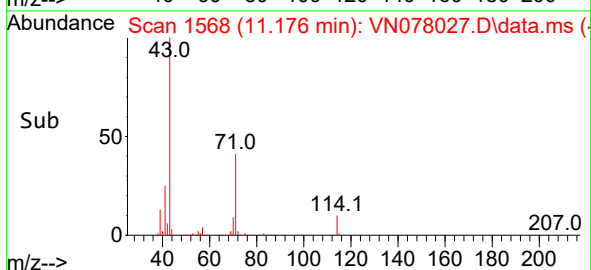
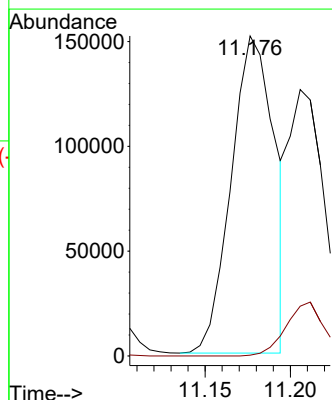
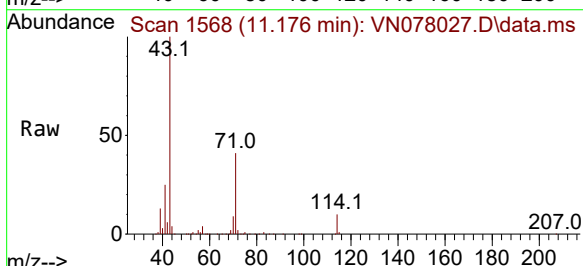
Acq: 02 Jun 2023 13:21

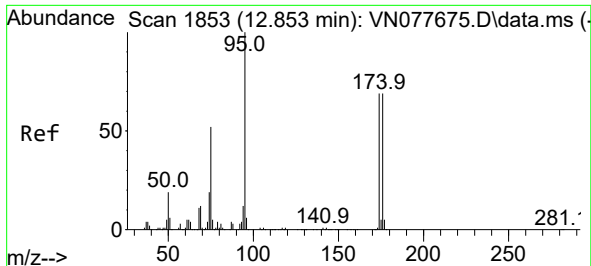
Tgt Ion: 43 Resp: 266762

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

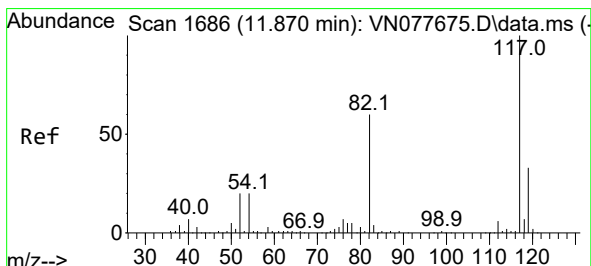
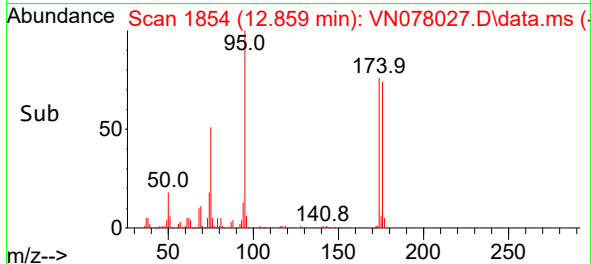
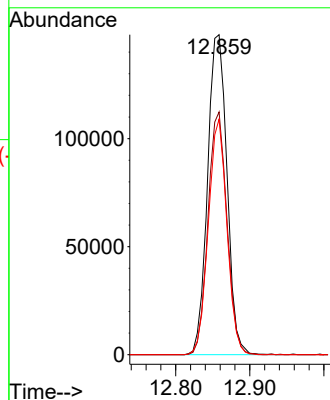
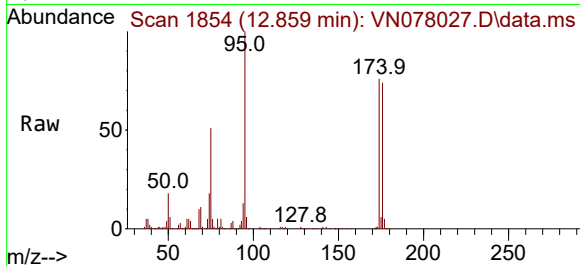




#62  
4-Bromofluorobenzene  
Concen: 41.842 ug/l  
RT: 12.859 min Scan# 1854  
Delta R.T. 0.006 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

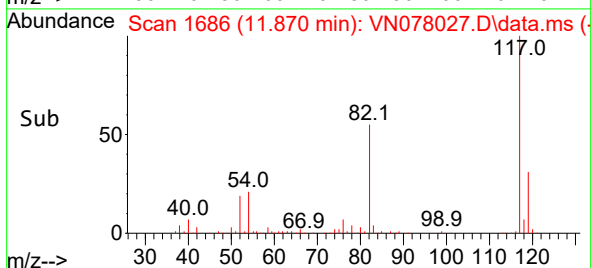
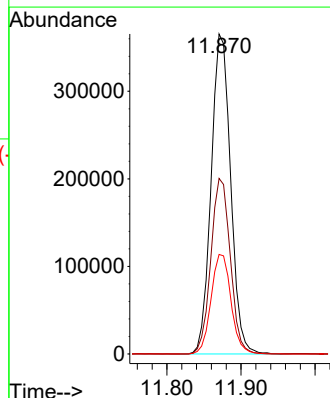
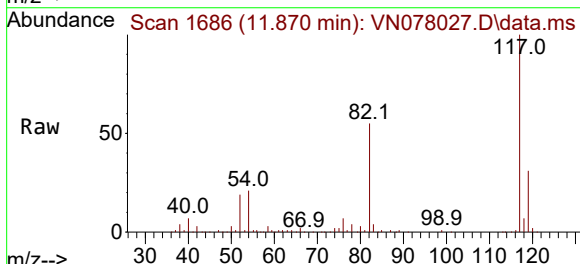
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB153165ZHE#04

Tgt Ion: 95 Resp: 269337  
Ion Ratio Lower Upper  
95 100  
174 74.3 0.0 143.8  
176 70.4 0.0 135.8

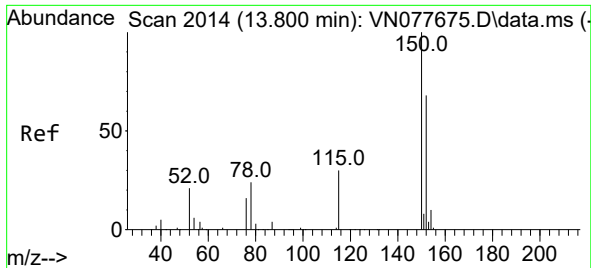


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

Tgt Ion: 117 Resp: 666834  
Ion Ratio Lower Upper  
117 100  
82 54.9 44.0 66.0  
119 31.1 25.6 38.4



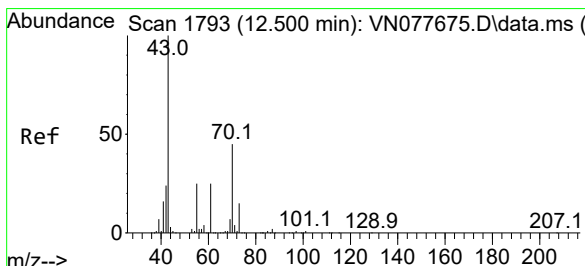
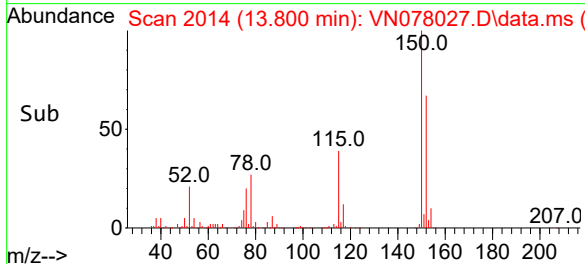
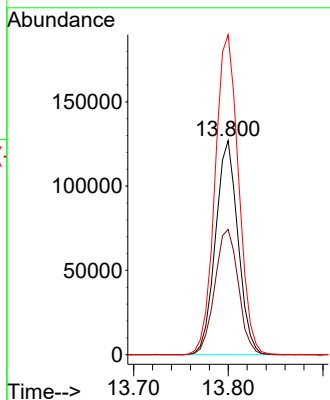
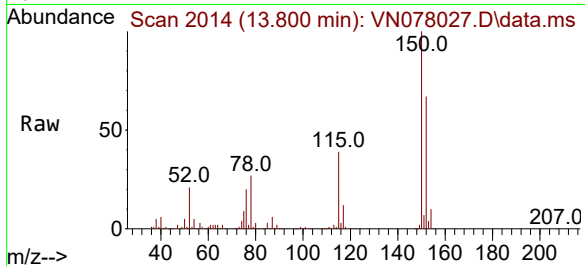




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.800 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

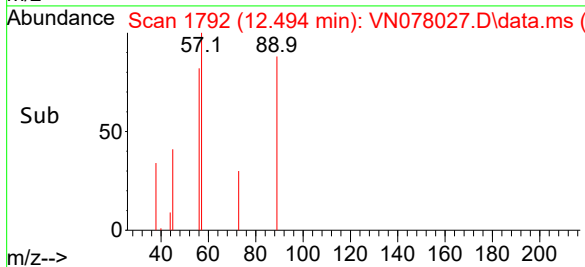
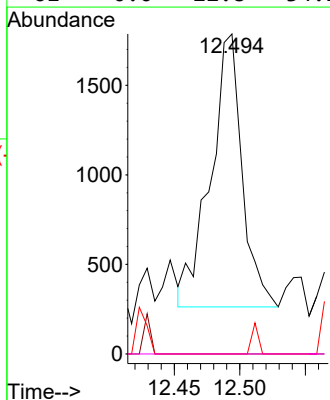
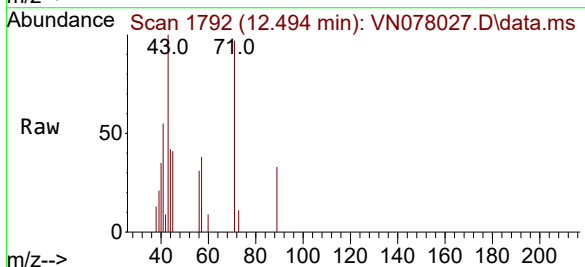
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB153165ZHE#04

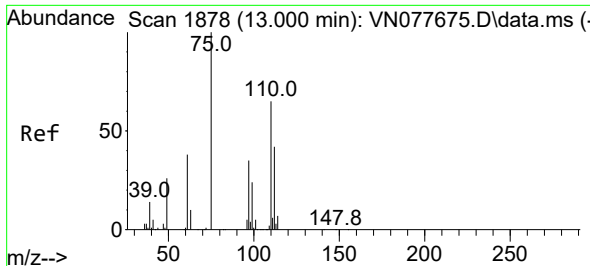
Tgt Ion:152 Resp: 209538  
Ion Ratio Lower Upper  
152 100  
115 61.4 32.3 96.8  
150 156.3 0.0 355.8



#74  
N-ethyl acetate  
Concen: 0.384 ug/l  
RT: 12.494 min Scan# 1792  
Delta R.T. -0.006 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

Tgt Ion: 43 Resp: 2561  
Ion Ratio Lower Upper  
43 100  
70 0.0 43.4 65.2#  
55 0.0 21.4 32.0#  
61 0.0 22.8 34.2#

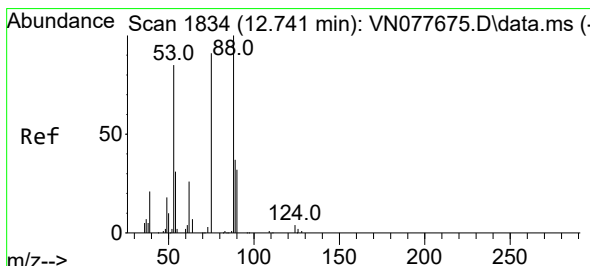
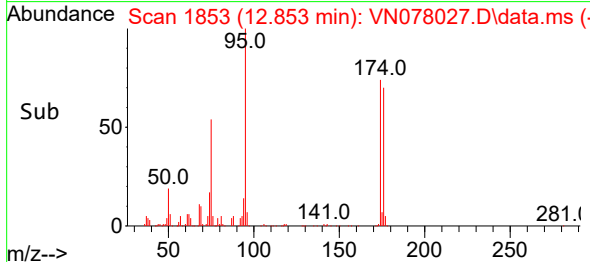
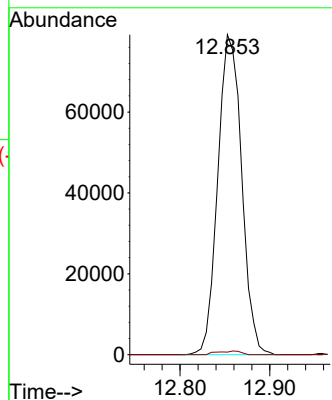
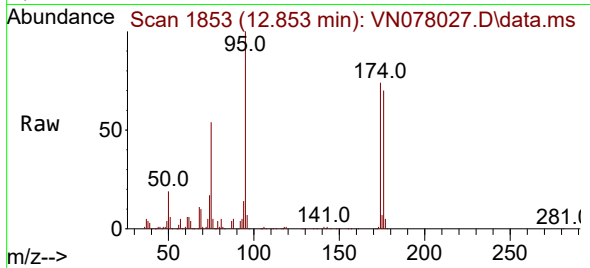




#76  
1,2,3-Trichloropropane  
Concen: 27.808 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.147 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB153165ZHE#04

Tgt Ion: 75 Resp: 145923  
Ion Ratio Lower Upper  
75 100  
77 1.1 84.5 253.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 88.888 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.112 min  
Lab File: VN078027.D  
Acq: 02 Jun 2023 13:21

Tgt Ion: 75 Resp: 145923  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.4 101.2#  
89 0.1 38.8 58.2#

