

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102323\  
 Data File : VN079650.D  
 Acq On : 23 Oct 2023 15:47  
 Operator : JC\MD  
 Sample : 04977-09  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 23 23:52:14 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N100523W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 06 03:34:49 2023  
 Response via : Initial Calibration

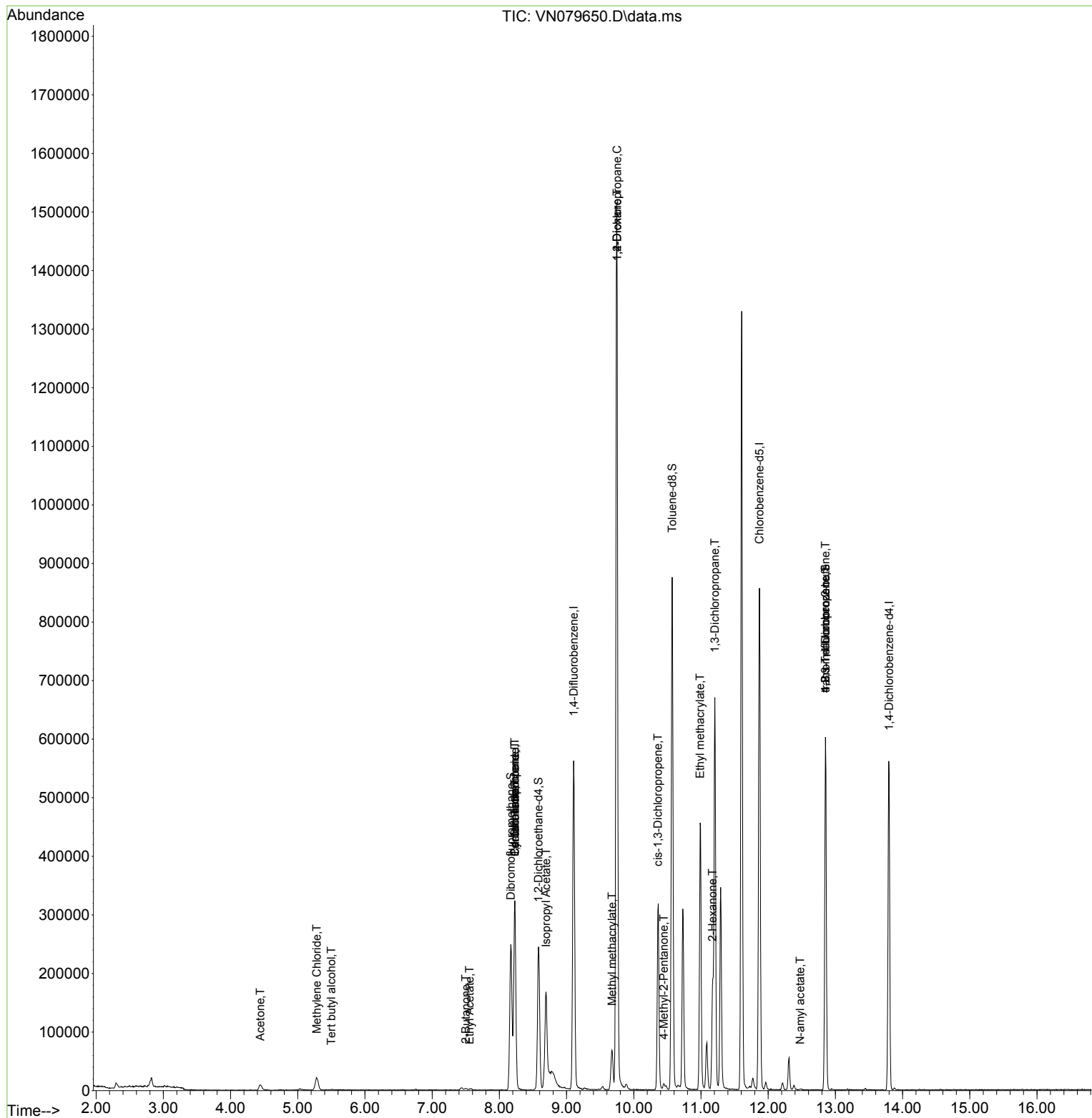
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.230          | 168  | 221491              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 467062              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.871         | 117  | 486862              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.800         | 152  | 146464              | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.582          | 65   | 196390              | 54.685    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 109.360% |           |        |          |
| 35) Dibromofluoromethane      | 8.171          | 113  | 178421              | 53.157    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 106.320% |           |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 585108              | 48.178    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 96.360%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 194545              | 49.916    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 99.840%  |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 11) Tert butyl alcohol        | 5.500          | 59   | 493                 | 0.912     | ug/l # | 72       |
| 16) Acetone                   | 4.442          | 43   | 17820               | 12.510    | ug/l   | 89       |
| 20) Methylene Chloride        | 5.283          | 84   | 16775               | 4.834     | ug/l # | 82       |
| 25) 2-Butanone                | 7.500          | 43   | 5862                | 2.773     | ug/l # | 74       |
| 31) Cyclohexane               | 8.230          | 56   | 6278                | 1.232     | ug/l # | 33       |
| 36) 1,1-Dichloropropene       | 8.230          | 75   | 20585               | 4.086     | ug/l # | 42       |
| 37) Ethyl Acetate             | 7.559          | 43   | 1647                | 0.329     | ug/l # | 76       |
| 38) Carbon Tetrachloride      | 8.230          | 117  | 23718               | 4.703     | ug/l # | 17       |
| 43) Isopropyl Acetate         | 8.694          | 43   | 201583              | 22.955    | ug/l # | 74       |
| 45) 1,2-Dichloropropane       | 9.753          | 63   | 1702                | 0.432     | ug/l # | 45       |
| 48) Methyl methacrylate       | 9.677          | 41   | 4882                | 1.297     | ug/l # | 30       |
| 49) 1,4-Dioxane               | 9.753          | 88   | 132                 | 1.904     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.447         | 43   | 12098               | 2.440     | ug/l # | 64       |
| 54) cis-1,3-Dichloropropene   | 10.359         | 75   | 51784               | 8.939     | ug/l # | 70       |
| 56) Ethyl methacrylate        | 10.988         | 69   | 2977                | 0.613     | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 11.206         | 76   | 6856                | 1.123     | ug/l # | 42       |
| 59) 2-Hexanone                | 11.171         | 43   | 148416              | 41.489    | ug/l # | 19       |
| 74) N-amyl acetate            | 12.476         | 43   | 1427                | 0.255     | ug/l # | 38       |
| 75) 1,1,2,2-Tetrachloroethane | 12.859         | 83   | 274                 | Below Cal | #      | 21       |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 109088              | 25.832    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 109088              | 74.953    | ug/l # | 15       |
| -----                         |                |      |                     |           |        |          |

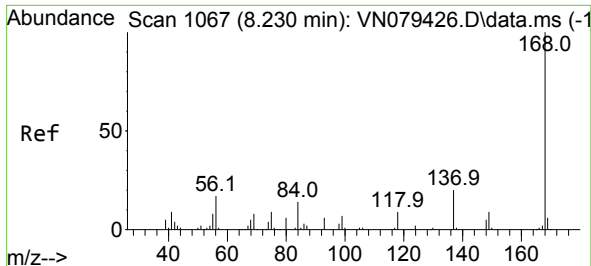
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : 04977-09  
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ClientSampleId :

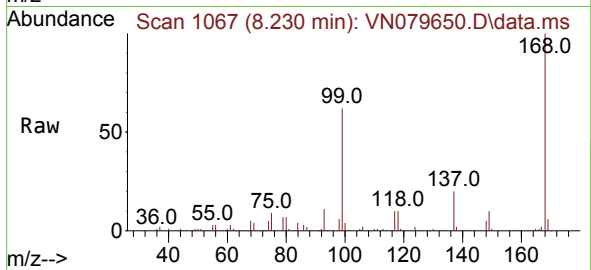
Quant Time: Oct 23 23:52:14 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N100523W.M  
Quant Title : SW846 8260  
QLast Update : Fri Oct 06 03:34:49 2023  
Response via : Initial Calibration



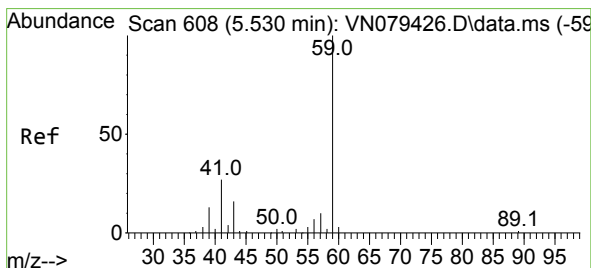
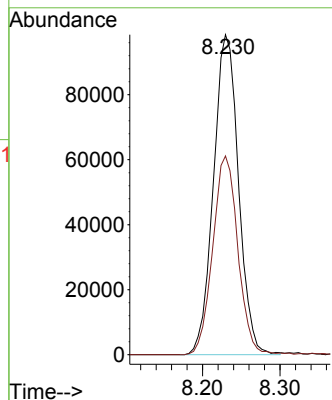
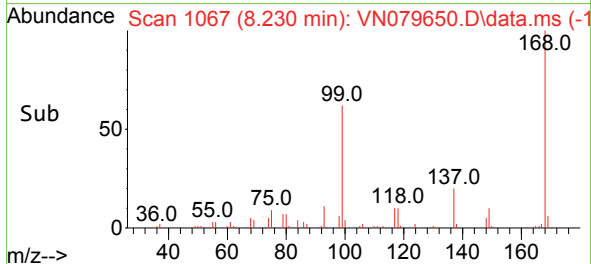


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.000 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47

Instrument :  
MSVOA\_N  
ClientSampleId :

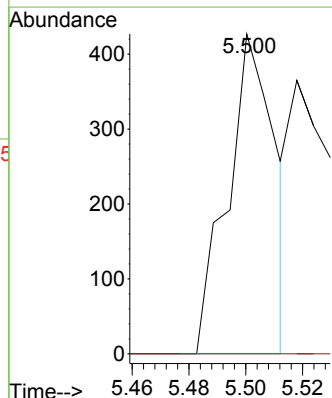
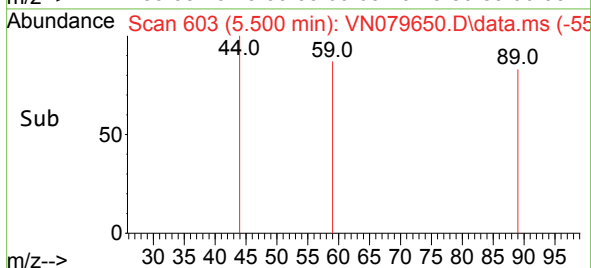
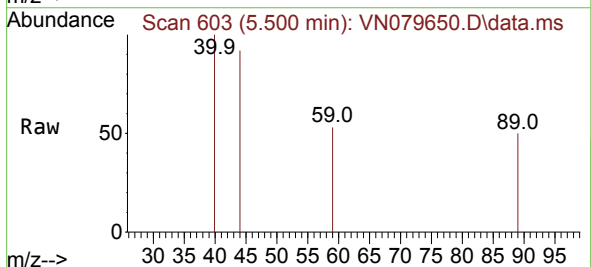


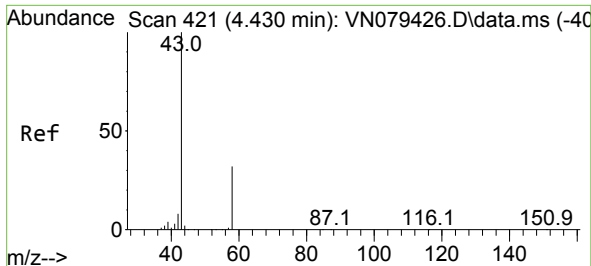
Tgt Ion:168 Resp: 221491  
Ion Ratio Lower Upper  
168 100  
99 62.1 53.0 79.6



#11  
Tert butyl alcohol  
Concen: 0.912 ug/l  
RT: 5.500 min Scan# 603  
Delta R.T. -0.030 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47

Tgt Ion: 59 Resp: 493  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#

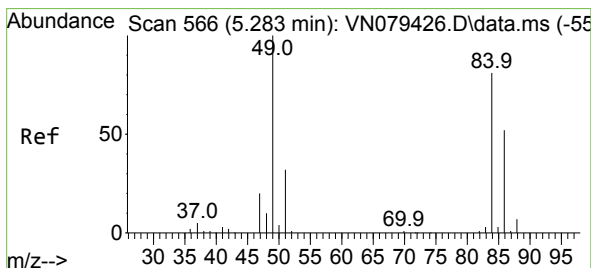
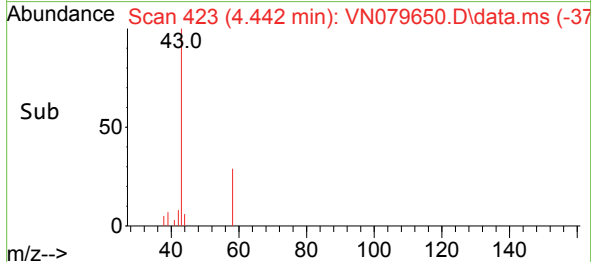
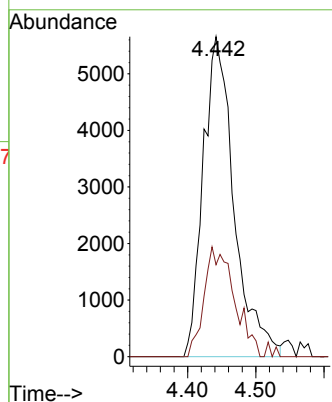
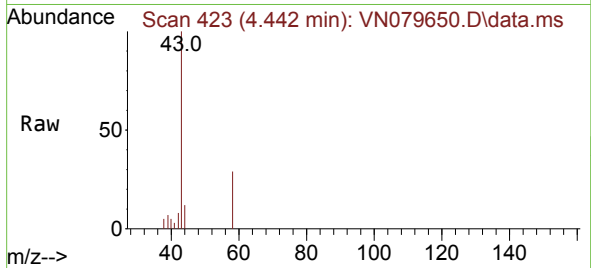




#16  
Acetone  
Concen: 12.510 ug/l  
RT: 4.442 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47

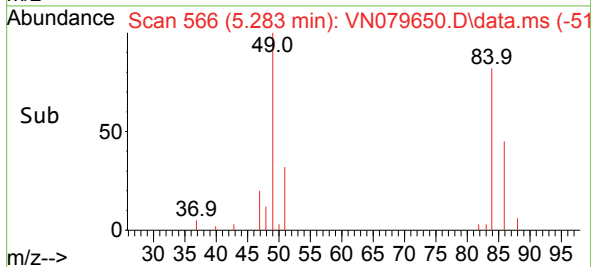
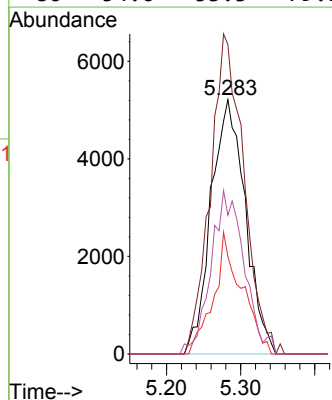
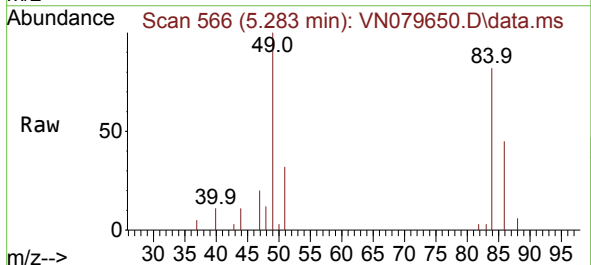
Instrument :  
MSVOA\_N  
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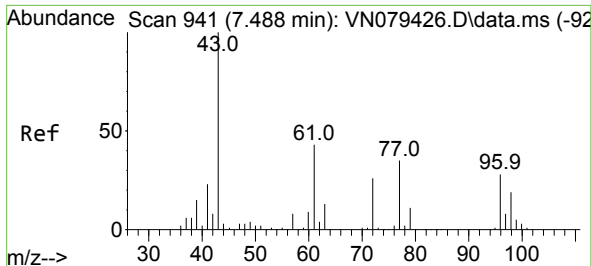
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Ion Ratio Lower Upper  
43 100  
58 28.8 28.0 42.0



#20  
Methylene Chloride  
Concen: 4.834 ug/l  
RT: 5.283 min Scan# 566  
Delta R.T. -0.000 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47

Tgt Ion: 84 Resp: 16775  
Ion Ratio Lower Upper  
84 100  
49 121.7 79.7 119.5#  
51 38.5 25.2 37.8#  
86 54.6 53.3 79.9

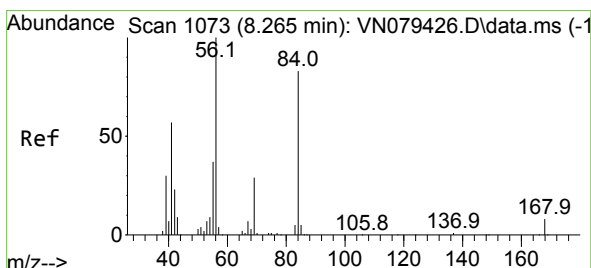
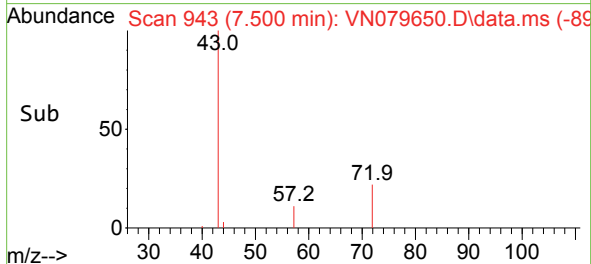
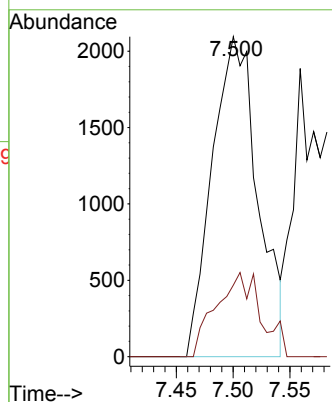
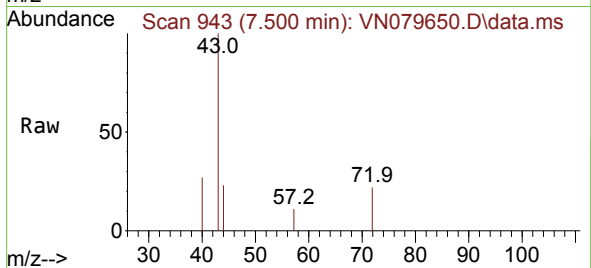




#25  
2-Butanone  
Concen: 2.773 ug/l  
RT: 7.500 min Scan# 941  
Delta R.T. 0.012 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47

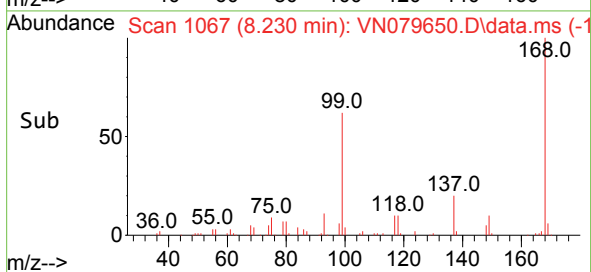
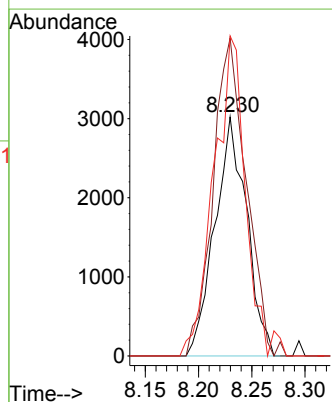
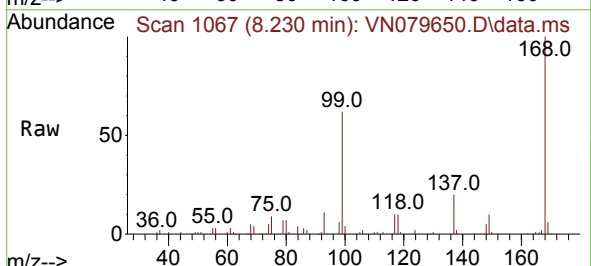
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MSVOA\_N  
ClientSampleId :

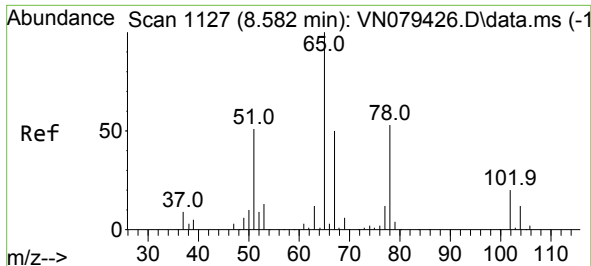
Tgt Ion: 43 Resp: 5862  
Ion Ratio Lower Upper  
43 100  
72 22.3 30.2 45.2#



#31  
Cyclohexane  
Concen: 1.232 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.035 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47

Tgt Ion: 56 Resp: 6278  
Ion Ratio Lower Upper  
56 100  
69 133.0 26.8 40.2#  
84 133.9 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 54.685 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN079650.D

Acq: 23 Oct 2023 15:47

Instrument :

MSVOA\_N

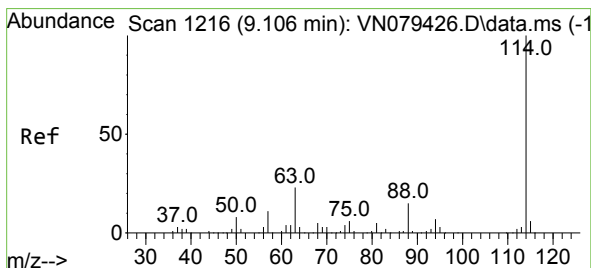
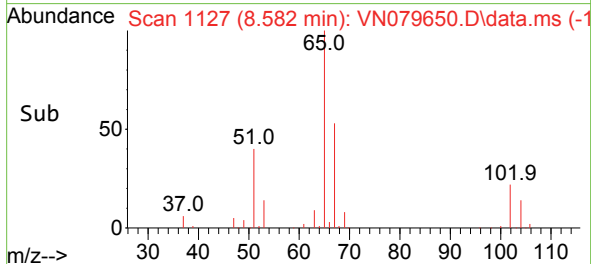
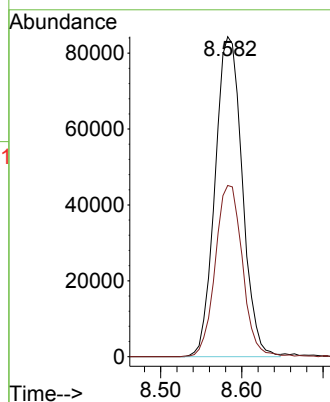
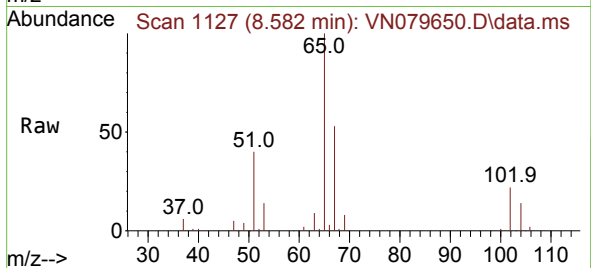
ClientSampleId :

Tgt Ion: 65 Resp: 196390

Ion Ratio Lower Upper

65 100

67 53.6 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: VN079650.D

Acq: 23 Oct 2023 15:47

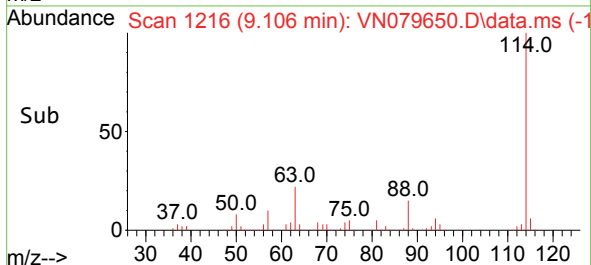
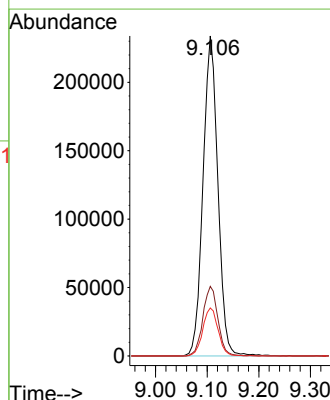
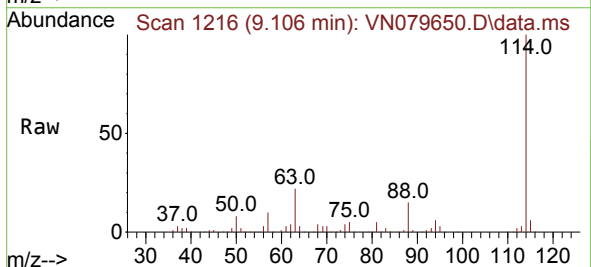
Tgt Ion: 114 Resp: 467062

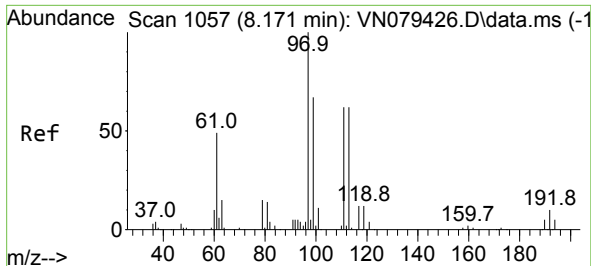
Ion Ratio Lower Upper

114 100

63 21.8 0.0 36.4

88 15.0 0.0 30.6





#35

Dibromofluoromethane

Concen: 53.157 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

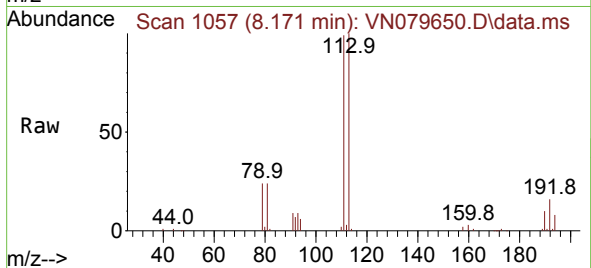
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Acq: 23 Oct 2023 15:47

Instrument :

MSVOA\_N

ClientSampleId :



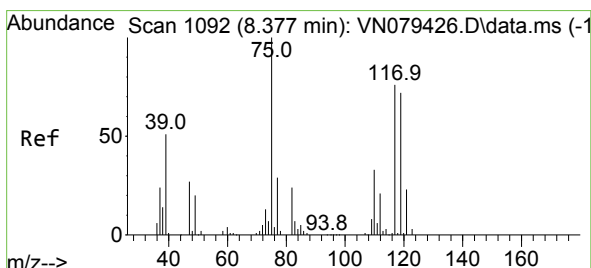
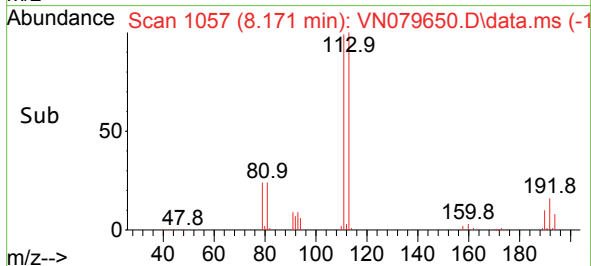
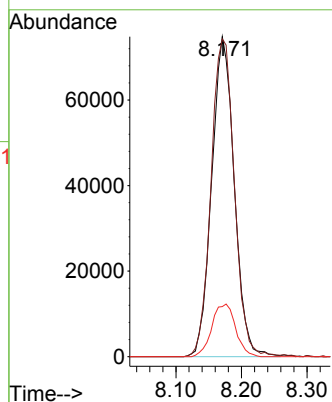
Tgt Ion:113 Resp: 178421

Ion Ratio Lower Upper

113 100

111 102.4 82.6 123.8

192 17.3 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.086 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079650.D

Acq: 23 Oct 2023 15:47

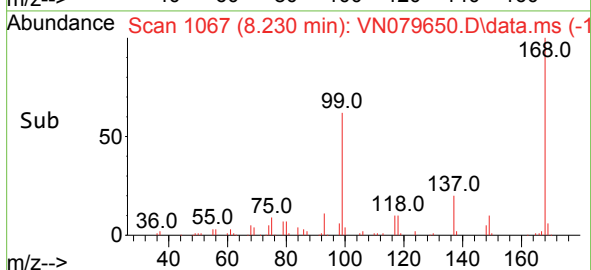
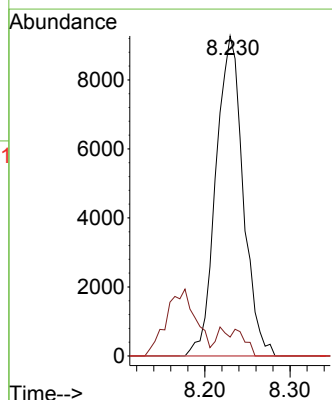
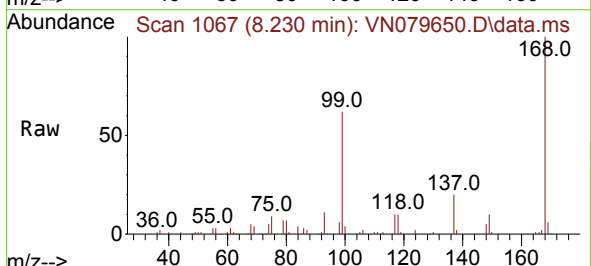
Tgt Ion: 75 Resp: 20585

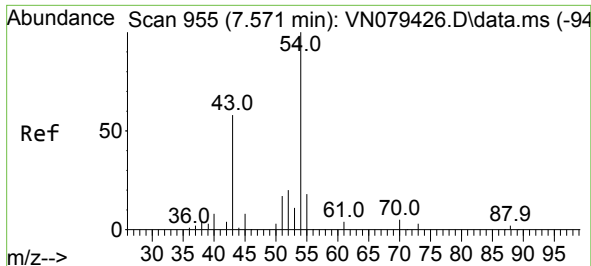
Ion Ratio Lower Upper

75 100

110 2.6 19.1 57.3#

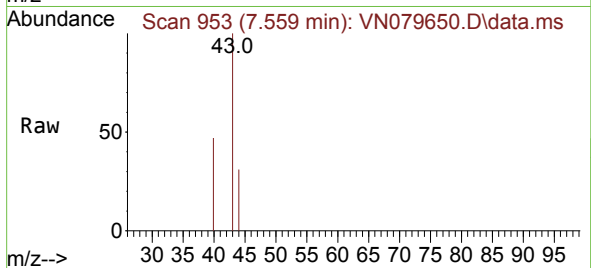
77 0.0 25.0 37.4#



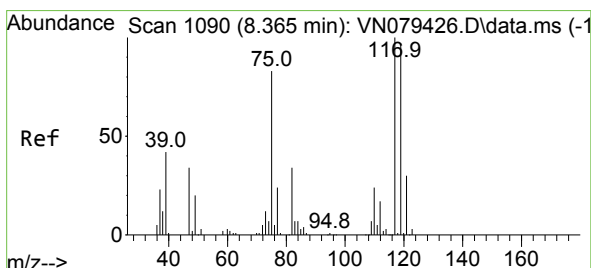
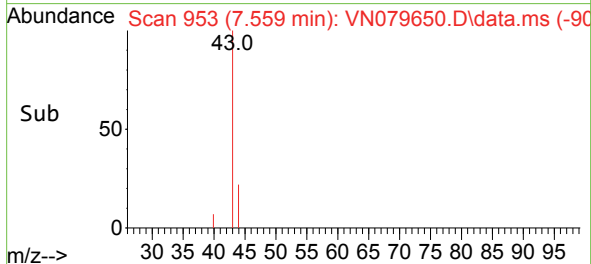
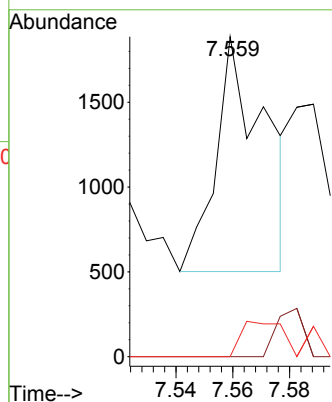


#37  
Ethyl Acetate  
Concen: 0.329 ug/l  
RT: 7.559 min Scan# 91  
Delta R.T. -0.012 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47

Instrument :  
MSVOA\_N  
ClientSampleId :

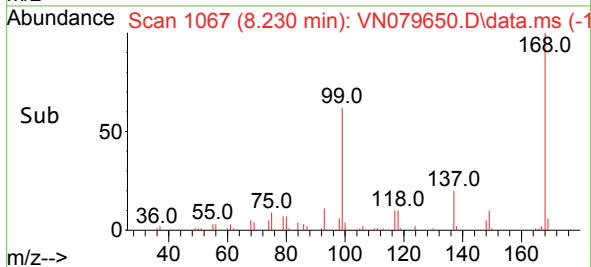
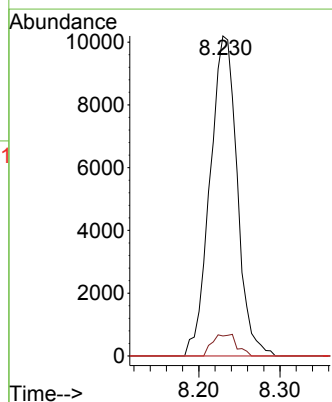
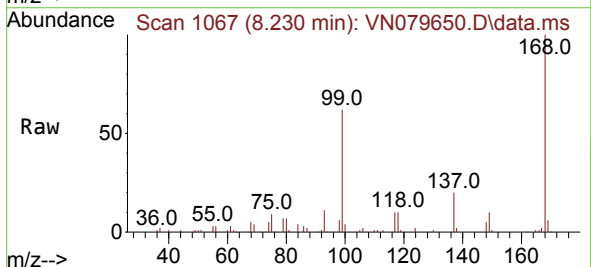


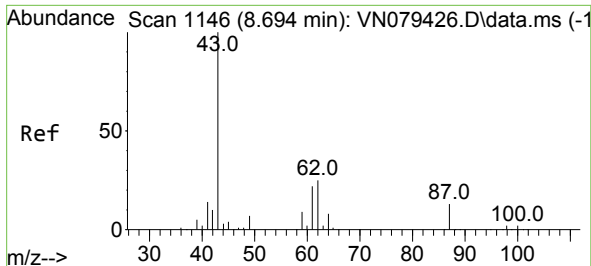
Tgt Ion: 43 Resp: 1647  
Ion Ratio Lower Upper  
43 100  
61 0.0 13.2 19.8#  
70 16.6 11.3 16.9



#38  
Carbon Tetrachloride  
Concen: 4.703 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.135 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47

Tgt Ion: 117 Resp: 23718  
Ion Ratio Lower Upper  
117 100  
119 6.2 77.3 115.9#  
121 0.0 23.3 34.9#

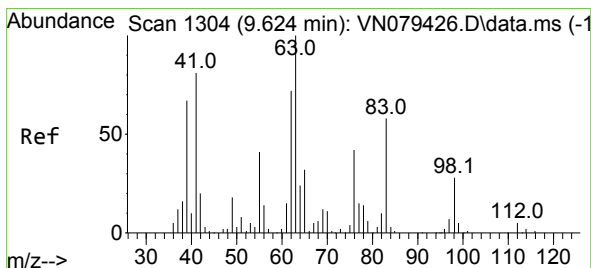
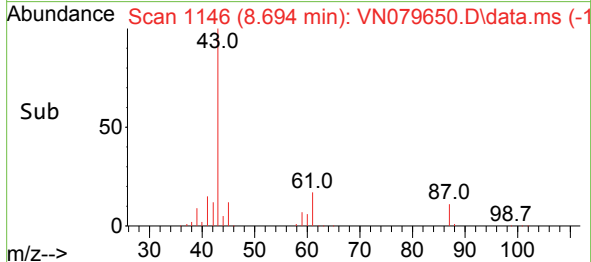
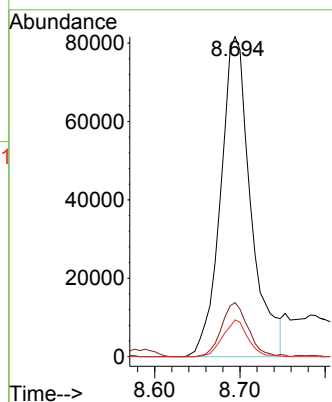
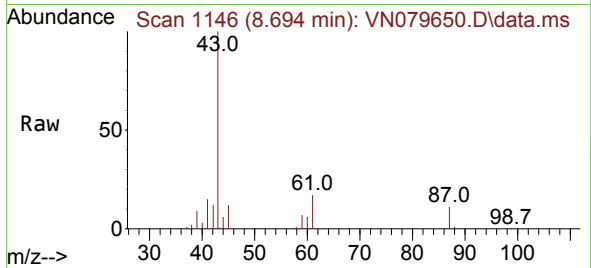




#43  
Isopropyl Acetate  
Concen: 22.955 ug/l  
RT: 8.694 min Scan# 1146  
Delta R.T. -0.000 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47

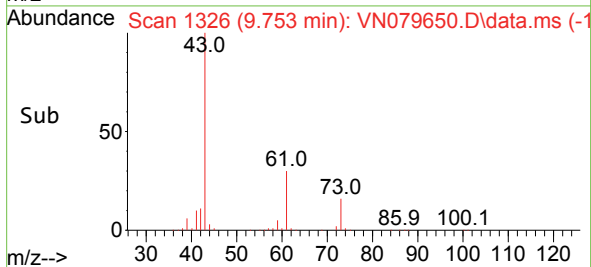
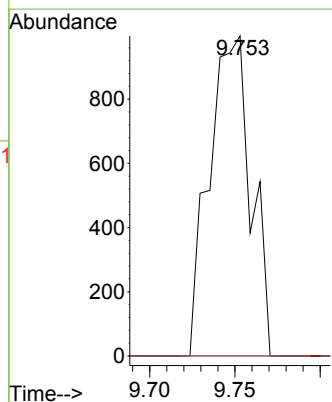
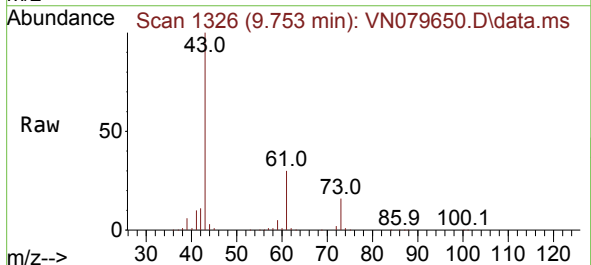
Instrument :  
MSVOA\_N  
ClientSampleId :

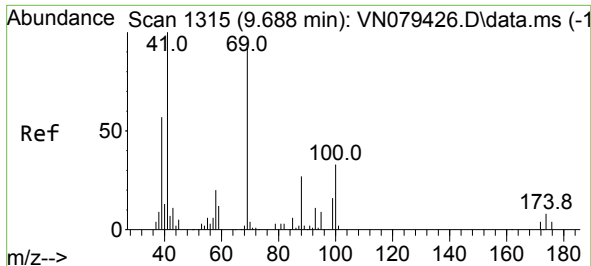
Tgt Ion: 43 Resp: 201583  
Ion Ratio Lower Upper  
43 100  
61 14.8 24.7 37.1#  
87 9.5 14.6 21.8#



#45  
1,2-Dichloropropane  
Concen: 0.432 ug/l  
RT: 9.753 min Scan# 1326  
Delta R.T. 0.129 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47

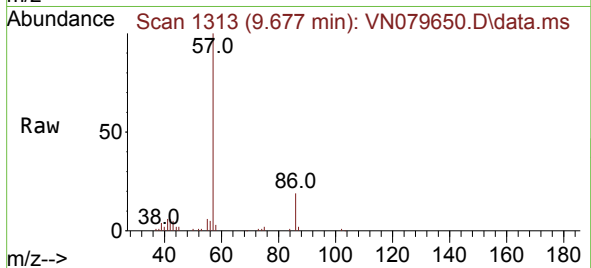
Tgt Ion: 63 Resp: 1702  
Ion Ratio Lower Upper  
63 100  
65 0.0 23.9 35.9#



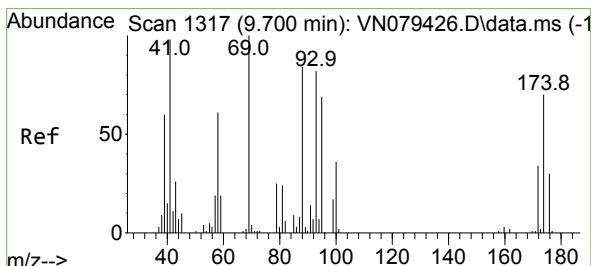
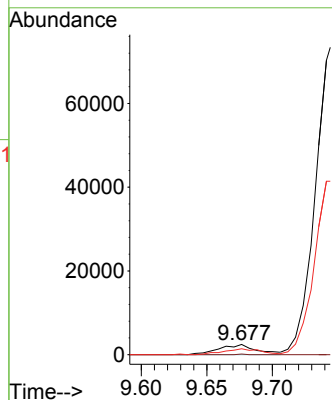
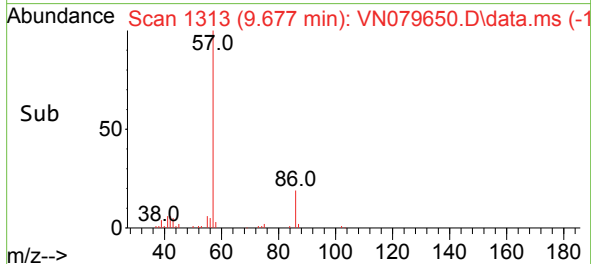


#48  
Methyl methacrylate  
Concen: 1.297 ug/l  
RT: 9.677 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47

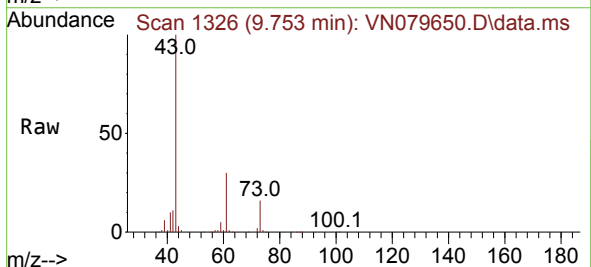
Instrument :  
MSVOA\_N  
ClientSampleId :



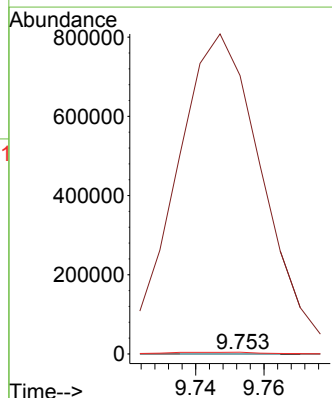
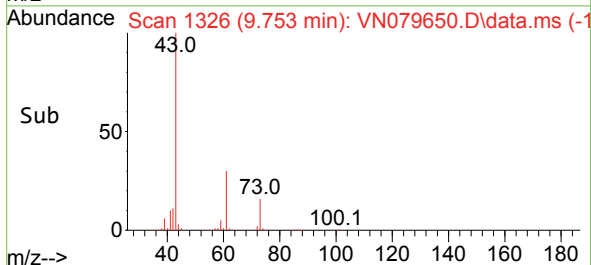
Tgt Ion: 41 Resp: 4882  
Ion Ratio Lower Upper  
41 100  
69 1.1 90.4 135.6#  
39 57.7 54.6 81.8

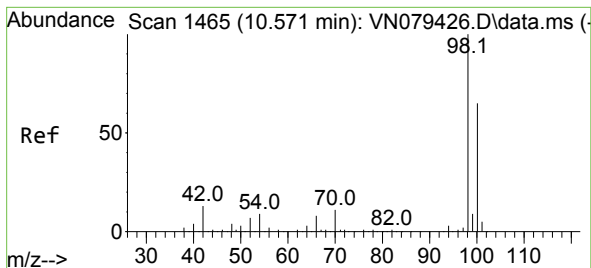


#49  
1,4-Dioxane  
Concen: 1.904 ug/l  
RT: 9.753 min Scan# 1326  
Delta R.T. 0.053 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47



Tgt Ion: 88 Resp: 132  
Ion Ratio Lower Upper  
88 100  
43 1105439.4 17.0 25.6#  
58 6685.6 47.0 70.4#

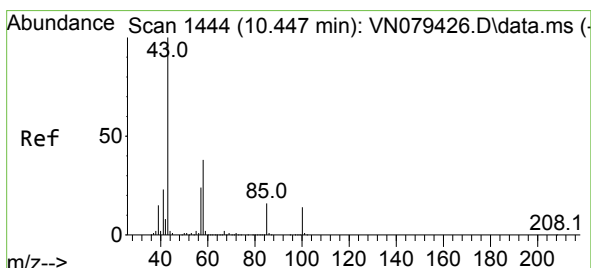
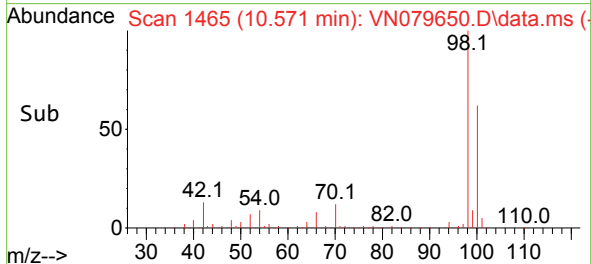
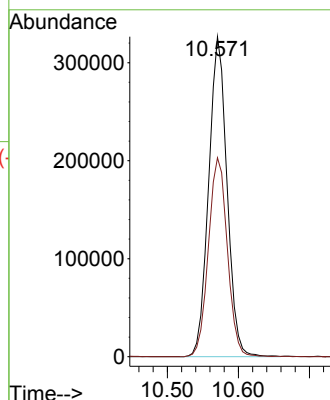
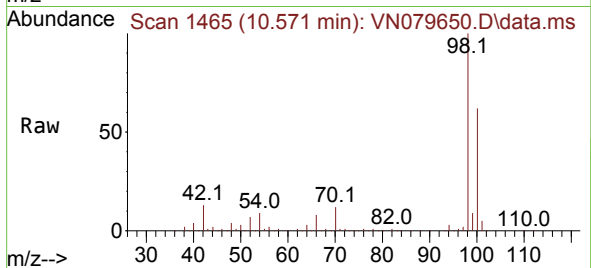




#50  
Toluene-d8  
Concen: 48.178 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47

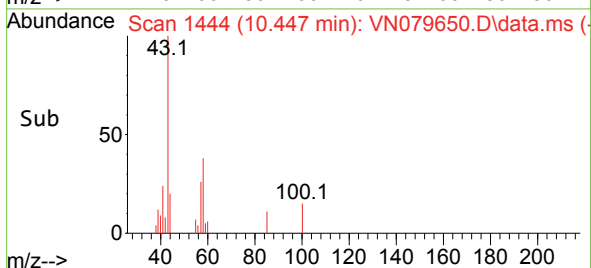
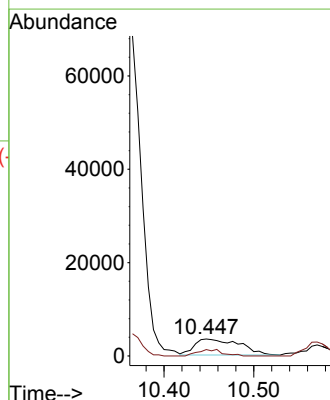
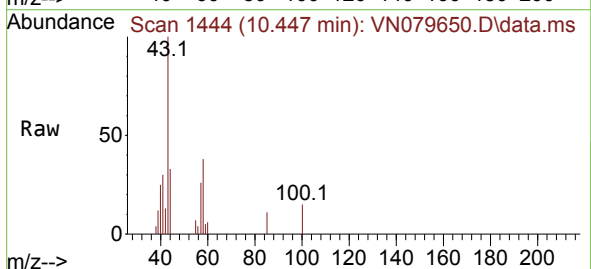
Instrument :  
MSVOA\_N  
ClientSampleId :

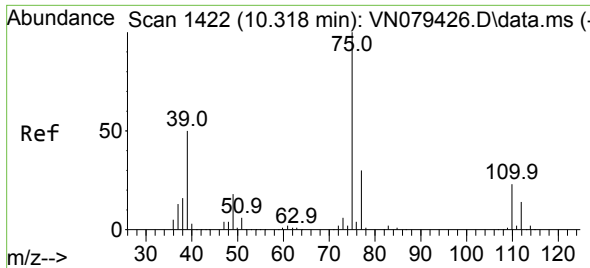
Tgt Ion: 98 Resp: 585108  
Ion Ratio Lower Upper  
98 100  
100 64.2 52.0 78.0



#51  
4-Methyl-2-Pentanone  
Concen: 2.440 ug/l  
RT: 10.447 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47

Tgt Ion: 43 Resp: 12098  
Ion Ratio Lower Upper  
43 100  
58 21.9 36.6 54.8#

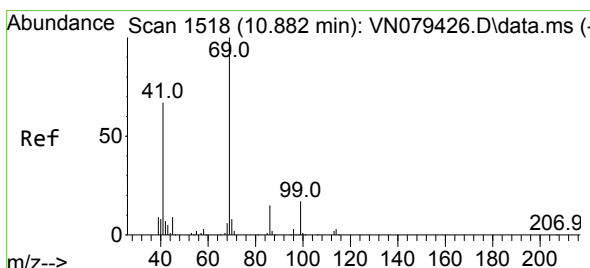
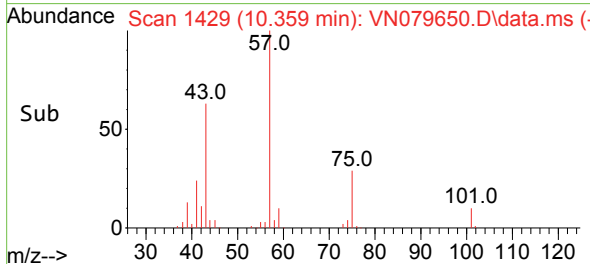
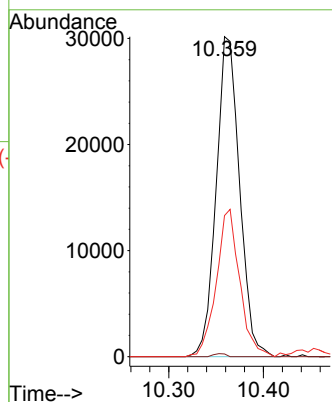
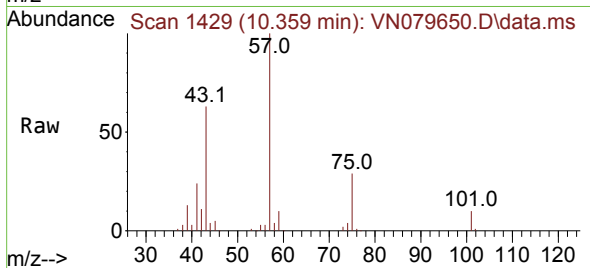




#54  
 cis-1,3-Dichloropropene  
 Concen: 8.939 ug/l  
 RT: 10.359 min Scan# 1429  
 Delta R.T. 0.041 min  
 Lab File: VN079650.D  
 Acq: 23 Oct 2023 15:47

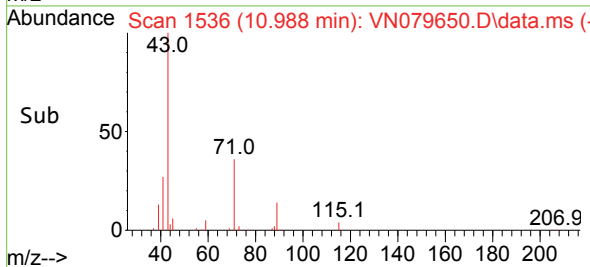
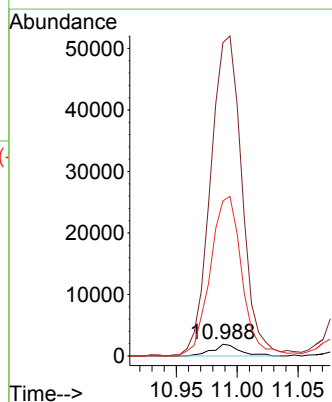
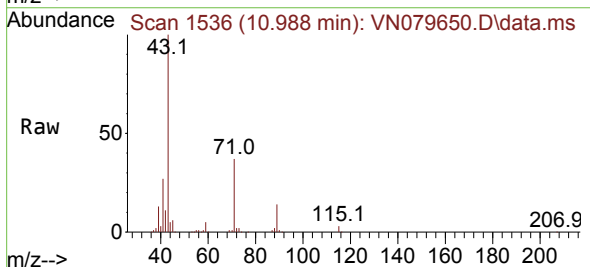
Instrument :  
 MSVOA\_N  
 ClientSampleId :

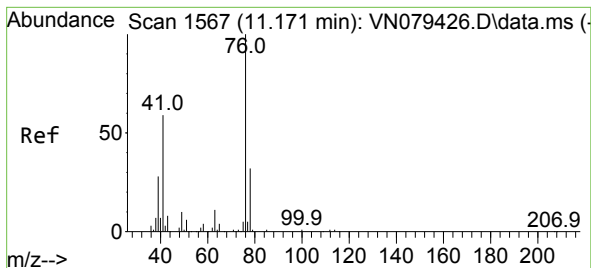
Tgt Ion: 75 Resp: 51784  
 Ion Ratio Lower Upper  
 75 100  
 77 0.8 26.1 39.1#  
 39 44.1 31.6 47.4



#56  
 Ethyl methacrylate  
 Concen: 0.613 ug/l  
 RT: 10.988 min Scan# 1536  
 Delta R.T. 0.106 min  
 Lab File: VN079650.D  
 Acq: 23 Oct 2023 15:47

Tgt Ion: 69 Resp: 2977  
 Ion Ratio Lower Upper  
 69 100  
 41 3157.3 39.6 59.4#  
 39 1583.1 28.6 43.0#

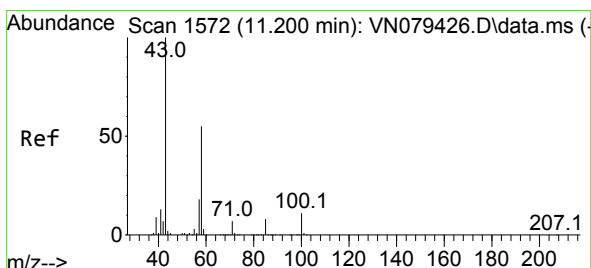
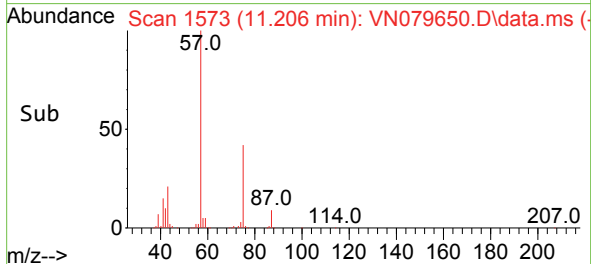
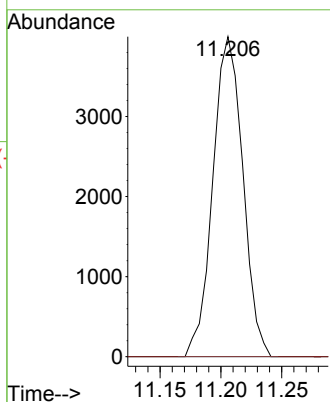
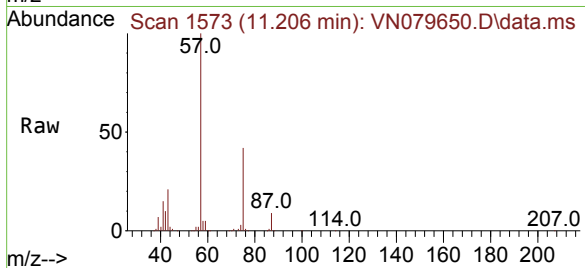




#57  
1,3-Dichloropropane  
Concen: 1.123 ug/l  
RT: 11.206 min Scan# 11  
Delta R.T. 0.035 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47

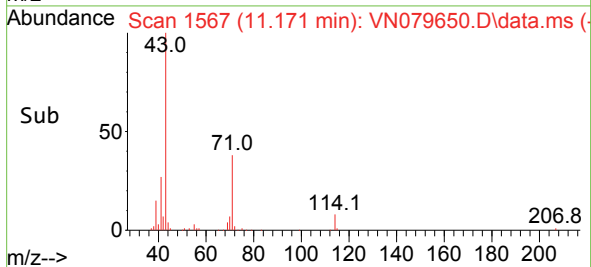
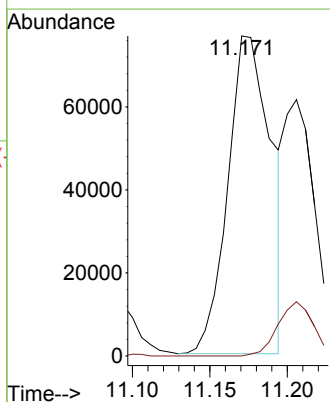
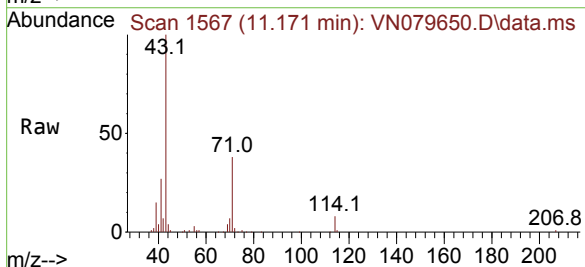
Instrument :  
MSVOA\_N  
ClientSampleId :

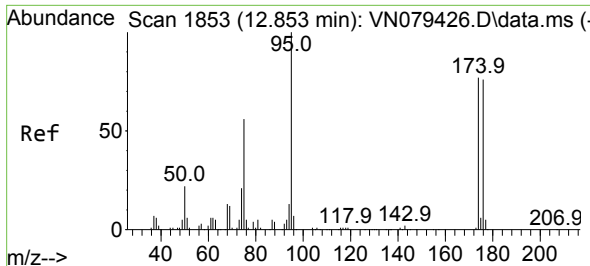
Tgt Ion: 76 Resp: 6856  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.1 39.1#



#59  
2-Hexanone  
Concen: 41.489 ug/l  
RT: 11.171 min Scan# 1567  
Delta R.T. -0.029 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47

Tgt Ion: 43 Resp: 148416  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.7 95.1#

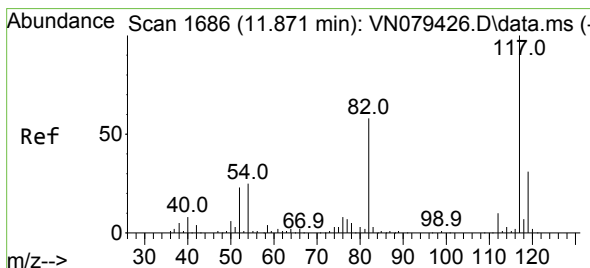
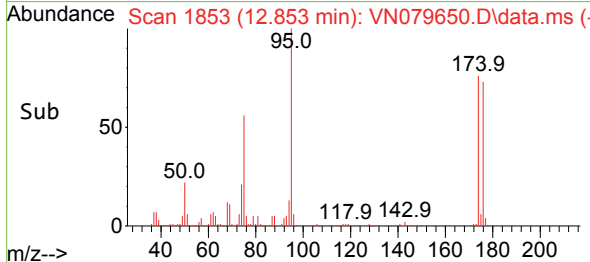
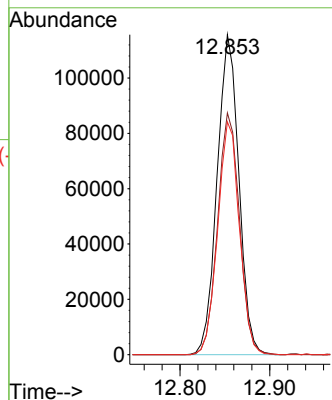
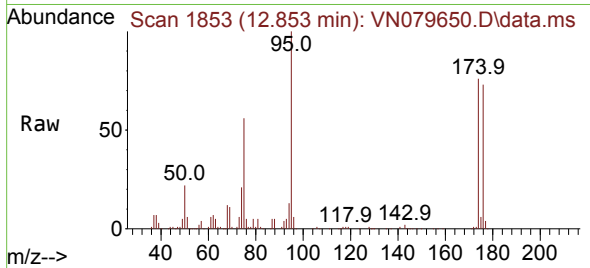




#62  
4-Bromofluorobenzene  
Concen: 49.916 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.000 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47

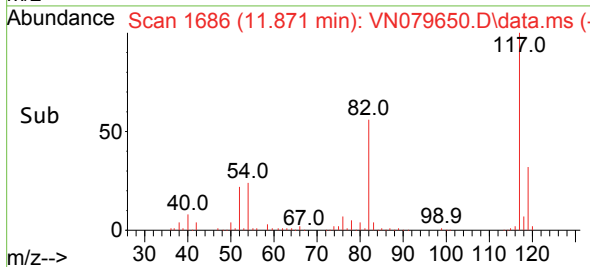
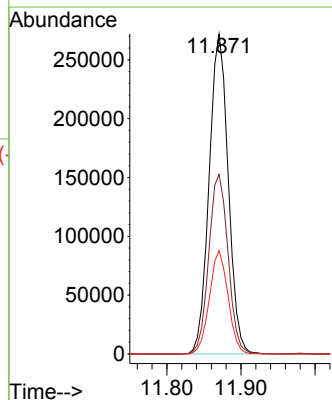
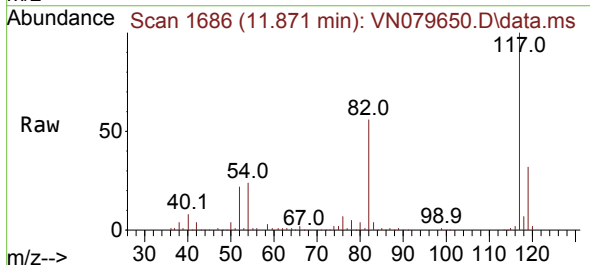
Instrument :  
MSVOA\_N  
ClientSampleId :

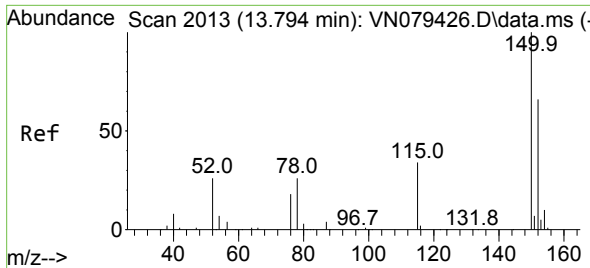
Tgt Ion: 95 Resp: 194545  
Ion Ratio Lower Upper  
95 100  
174 75.9 0.0 143.8  
176 72.8 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47

Tgt Ion: 117 Resp: 486862  
Ion Ratio Lower Upper  
117 100  
82 56.1 44.0 66.0  
119 32.3 25.6 38.4

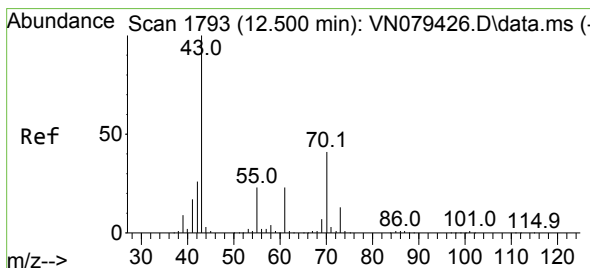
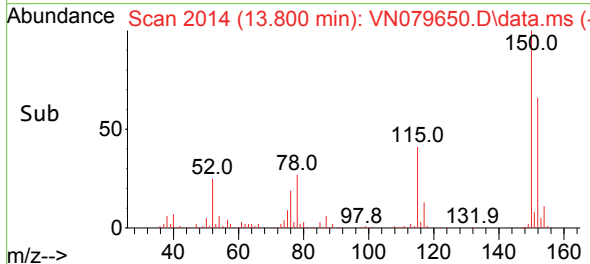
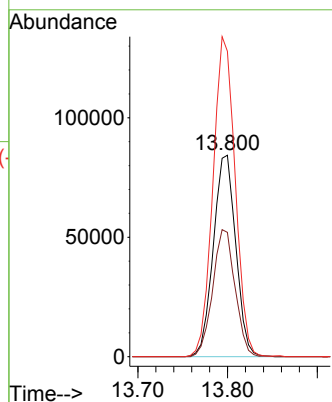
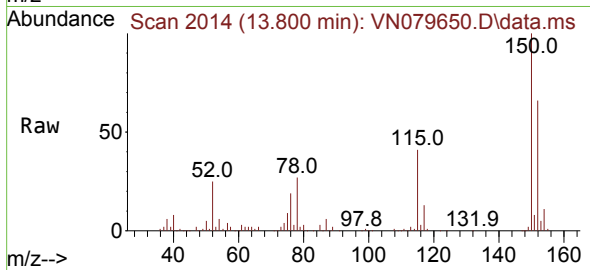




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.800 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47

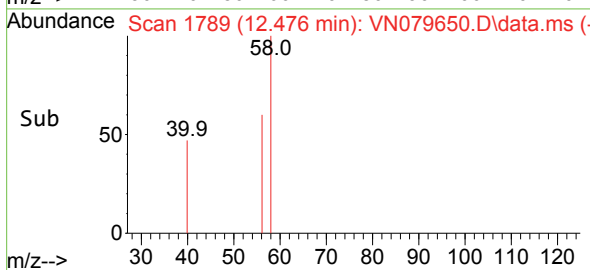
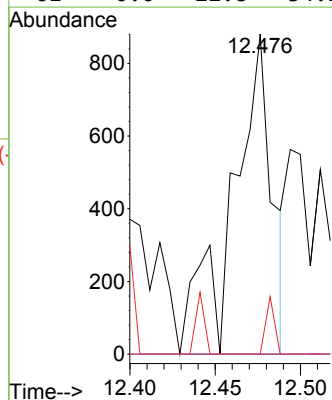
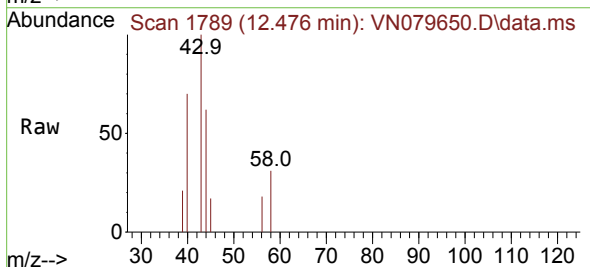
Instrument :  
MSVOA\_N  
ClientSampleId :

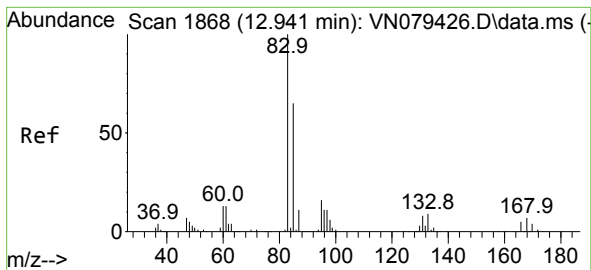
Tgt Ion:152 Resp: 146464  
Ion Ratio Lower Upper  
152 100  
115 62.8 32.3 96.8  
150 157.0 0.0 355.8



#74  
N-ethyl acetate  
Concen: 0.255 ug/l  
RT: 12.476 min Scan# 1789  
Delta R.T. -0.024 min  
Lab File: VN079650.D  
Acq: 23 Oct 2023 15:47

Tgt Ion: 43 Resp: 1427  
Ion Ratio Lower Upper  
43 100  
70 0.0 43.4 65.2#  
55 3.9 21.4 32.0#  
61 0.0 22.8 34.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.859 min Scan# 1854

Delta R.T. -0.082 min

Lab File: VN079650.D

Acq: 23 Oct 2023 15:47

Instrument :

MSVOA\_N

ClientSampleId :

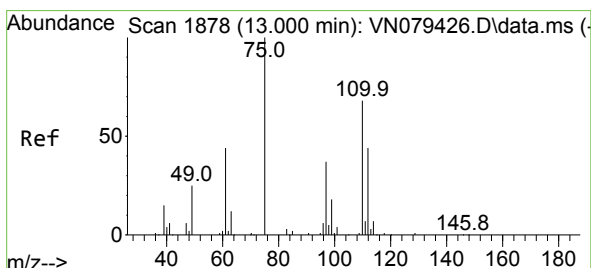
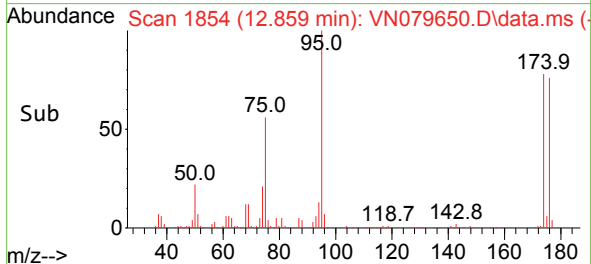
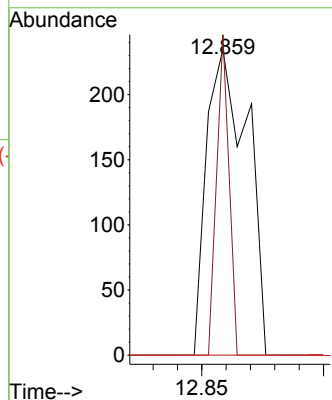
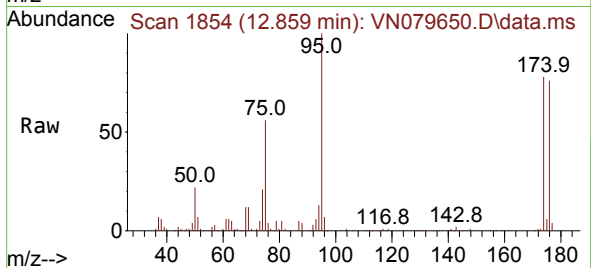
Tgt Ion: 83 Resp: 274

Ion Ratio Lower Upper

83 100

131 31.8 5.0 15.0#

85 0.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 25.832 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079650.D

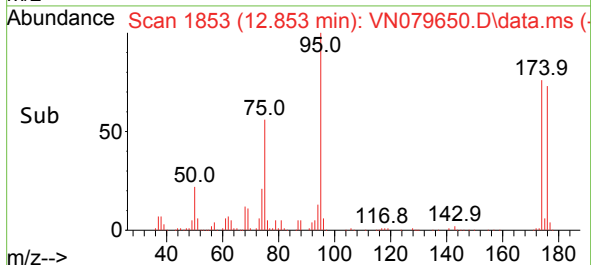
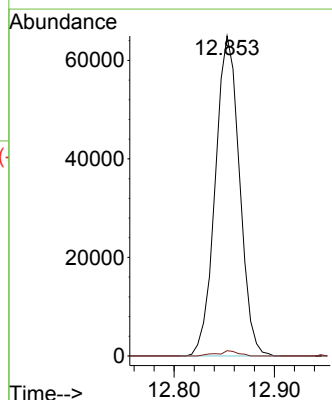
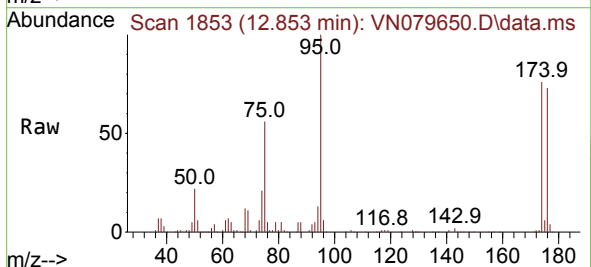
Acq: 23 Oct 2023 15:47

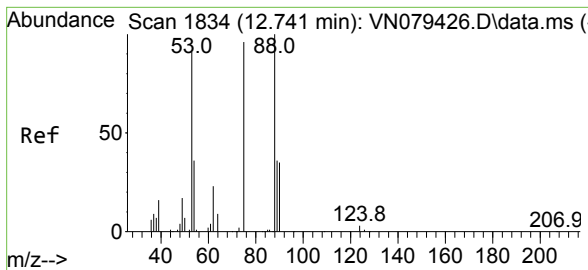
Tgt Ion: 75 Resp: 109088

Ion Ratio Lower Upper

75 100

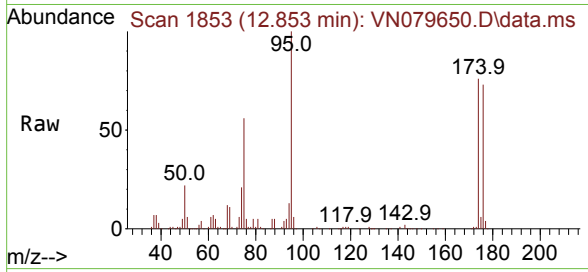
77 1.4 84.5 253.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 74.953 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN079650.D  
 Acq: 23 Oct 2023 15:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion: 75 Resp: 109088  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 67.4 101.2#  
 89 0.0 38.8 58.2#

