

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022024\  
 Data File : VN081098.D  
 Acq On : 20 Feb 2024 15:05  
 Operator : JC\MD  
 Sample : P1524-06  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 20240766-AMENDED-COMP-39N-N-3-01

Quant Time: Feb 21 00:20:39 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021624W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 16 23:45:20 2024  
 Response via : Initial Calibration

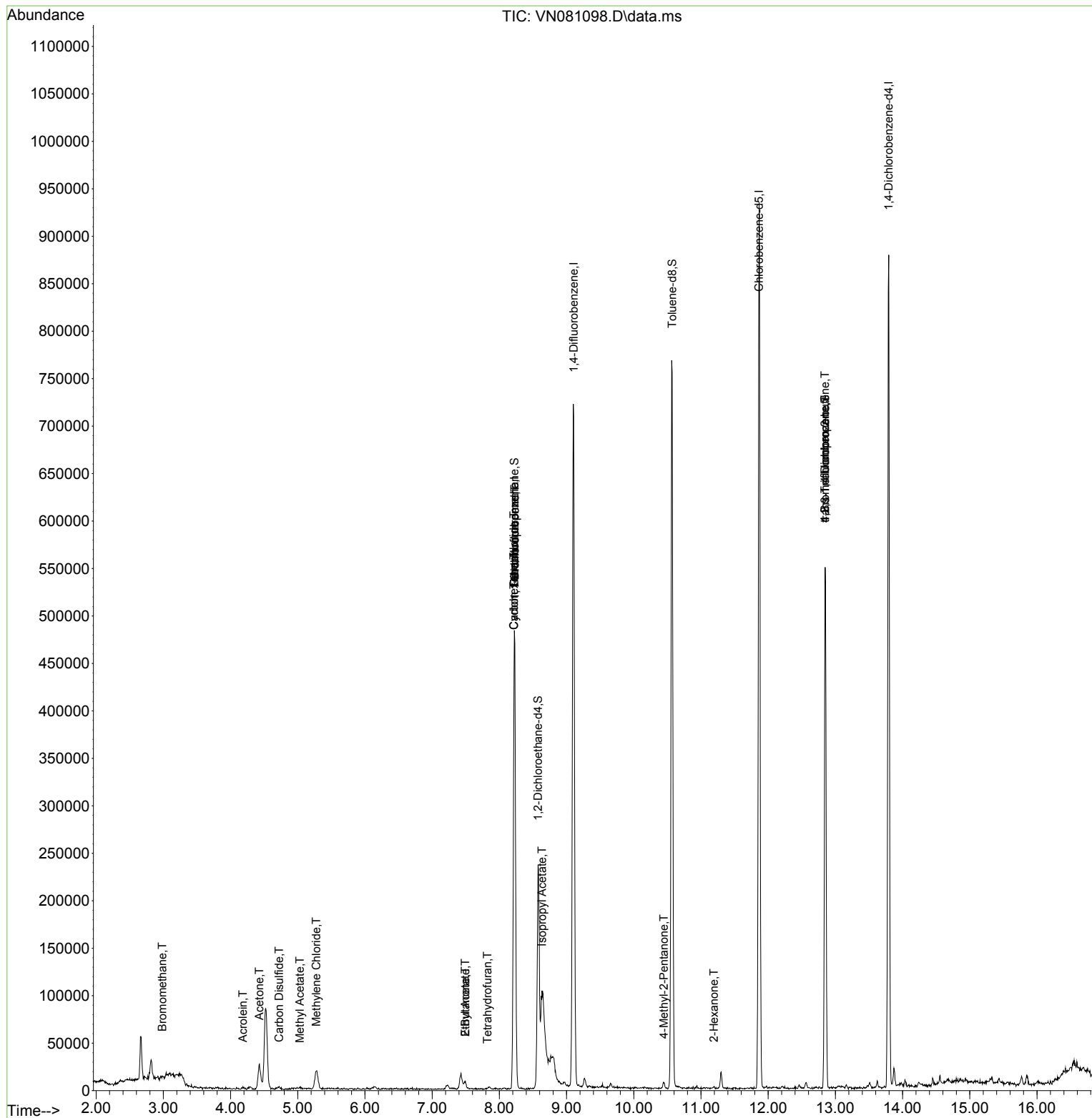
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 339436     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 642719     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 540740     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 226288     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577          | 65   | 187451     | 45.055    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 90.100%   |        |          |
| 35) Dibromofluoromethane      | 8.224          | 113  | 932        | 0.256     | ug/l   | 0.06     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 0.520%#   |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 533186     | 41.306    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 82.620%#  |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 196896     | 40.594    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 81.180%#  |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 3) Chloromethane              | 2.354          | 50   | 1823       | Below Cal | #      | 73       |
| 5) Bromomethane               | 2.983          | 94   | 1011       | 0.292     | ug/l # | 69       |
| 6) Chloroethane               | 3.136          | 64   | 169        | Below Cal | #      | 42       |
| 13) Acrolein                  | 4.183          | 56   | 1648       | 4.019     | ug/l # | 83       |
| 16) Acetone                   | 4.430          | 43   | 48990      | 29.925    | ug/l   | 96       |
| 17) Carbon Disulfide          | 4.724          | 76   | 4776       | 0.446     | ug/l   | 100      |
| 18) Methyl Acetate            | 5.030          | 43   | 2685       | 0.672     | ug/l # | 61       |
| 20) Methylene Chloride        | 5.277          | 84   | 15493      | 2.780     | ug/l # | 79       |
| 25) 2-Butanone                | 7.494          | 43   | 12754      | 4.822     | ug/l   | 94       |
| 29) Tetrahydrofuran           | 7.824          | 42   | 645        | 0.365     | ug/l # | 44       |
| 31) Cyclohexane               | 8.218          | 56   | 8615       | 1.199     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.230          | 75   | 29549      | 4.746     | ug/l # | 43       |
| 37) Ethyl Acetate             | 7.494          | 43   | 12754      | 2.270     | ug/l # | 70       |
| 38) Carbon Tetrachloride      | 8.218          | 117  | 37854      | 6.009     | ug/l # | 18       |
| 43) Isopropyl Acetate         | 8.635          | 43   | 157033     | 15.978    | ug/l # | 57       |
| 49) 1,4-Dioxane               | 9.706          | 88   | 361        | Below Cal | #      | 16       |
| 51) 4-Methyl-2-Pentanone      | 10.447         | 43   | 4508       | 0.797     | ug/l # | 83       |
| 59) 2-Hexanone                | 11.194         | 43   | 2051       | 0.458     | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 103117     | 20.056    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 103117     | 51.623    | ug/l # | 14       |
| -----                         |                |      |            |           |        |          |

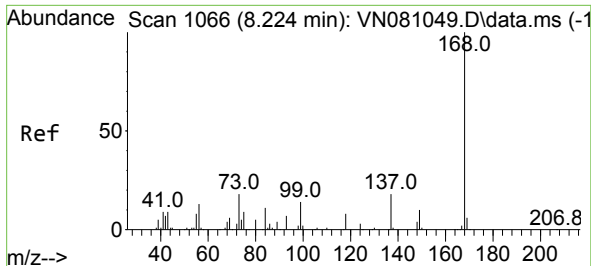
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022024\  
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Quant Title : SW846 8260  
QLast Update : Fri Feb 16 23:45:20 2024  
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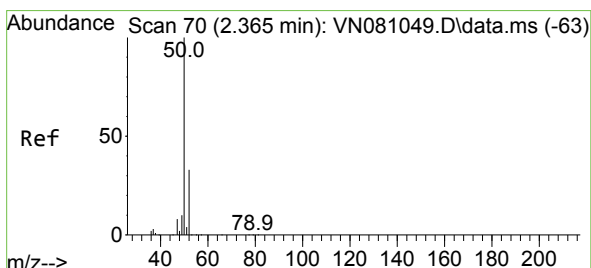
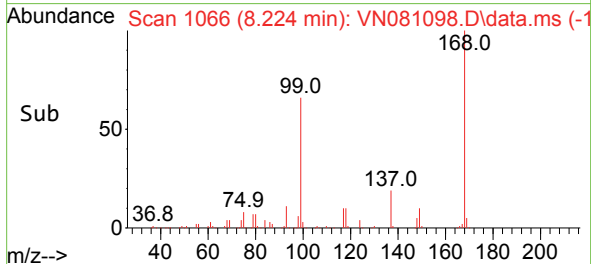
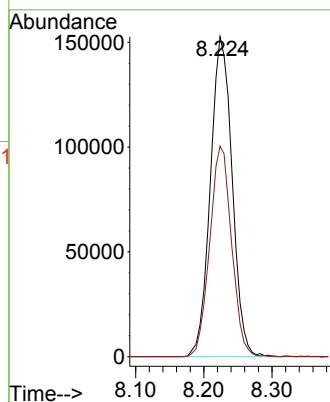
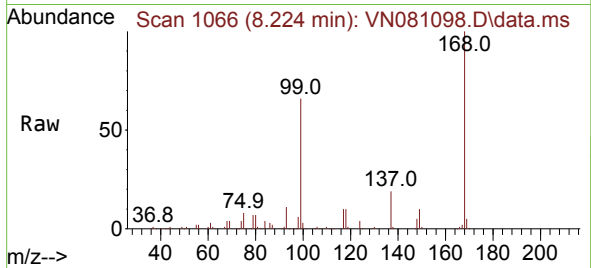




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

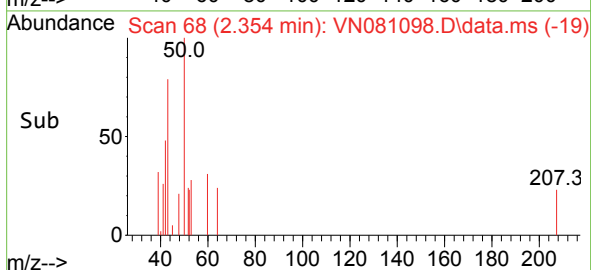
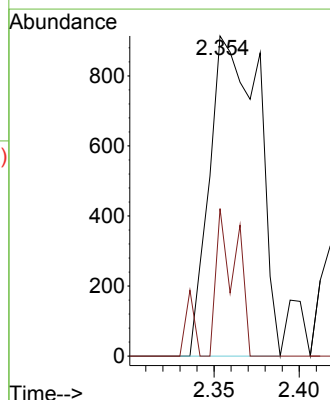
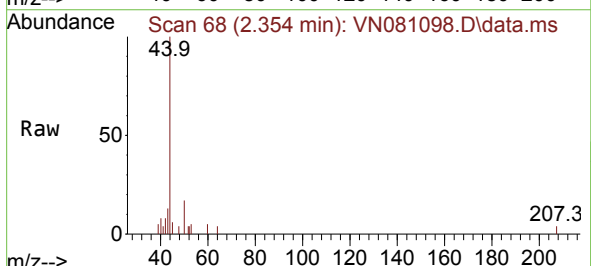
Instrument :  
MSVOA\_N  
ClientSampleId :  
20240766-AMENDED-COMP-39N-N-3-01

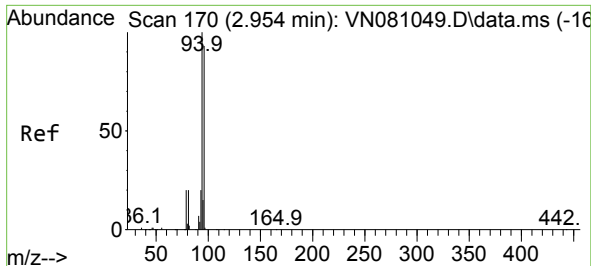
Tgt Ion:168 Resp: 339436  
Ion Ratio Lower Upper  
168 100  
99 65.8 59.9 89.9



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.354 min Scan# 68  
Delta R.T. -0.011 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

Tgt Ion: 50 Resp: 1823  
Ion Ratio Lower Upper  
50 100  
52 46.1 25.0 37.4#

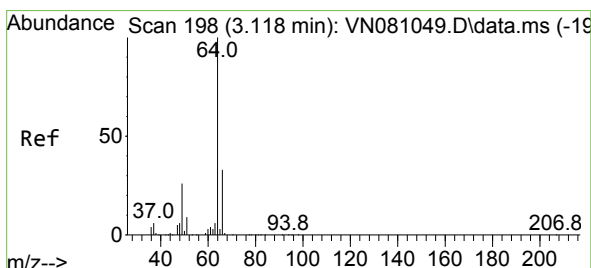
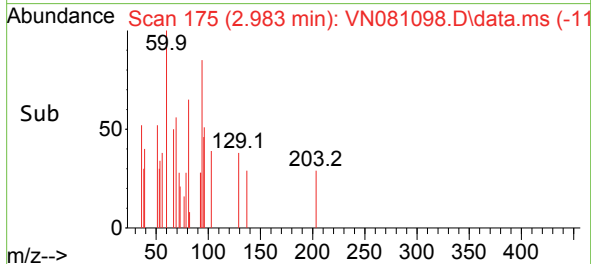
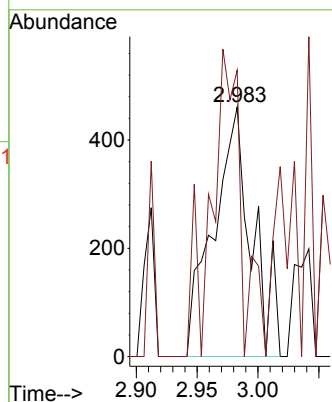
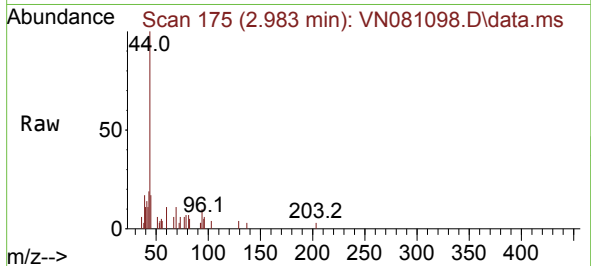




#5  
Bromomethane  
Concen: 0.292 ug/l  
RT: 2.983 min Scan# 11  
Delta R.T. 0.029 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

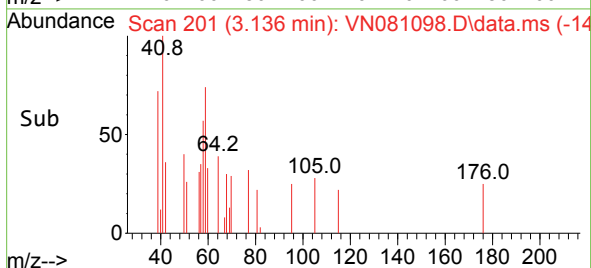
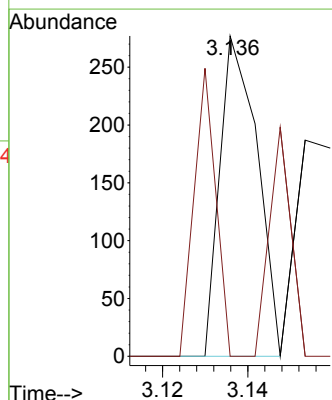
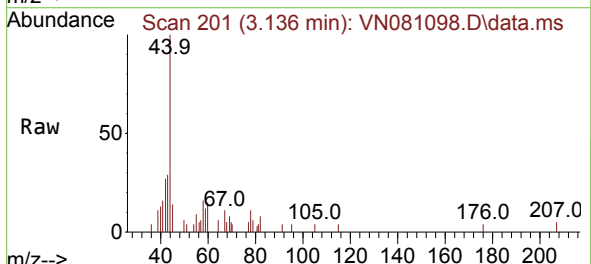
Instrument :  
MSVOA\_N  
ClientSampleId :  
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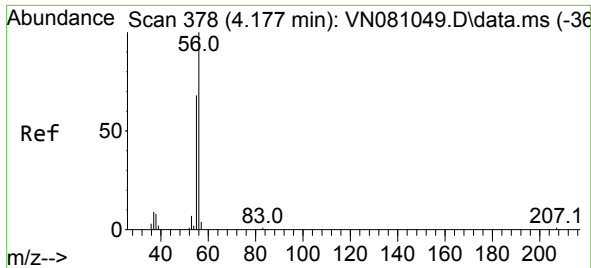
Tgt Ion: 94 Resp: 1011  
Ion Ratio Lower Upper  
94 100  
96 114.8 69.2 103.8#



#6  
Chloroethane  
Concen: Below Cal  
RT: 3.136 min Scan# 201  
Delta R.T. 0.018 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

Tgt Ion: 64 Resp: 169  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.4 39.6#

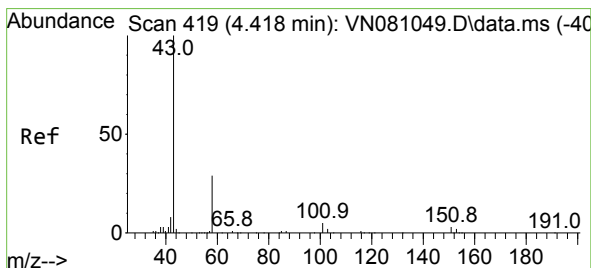
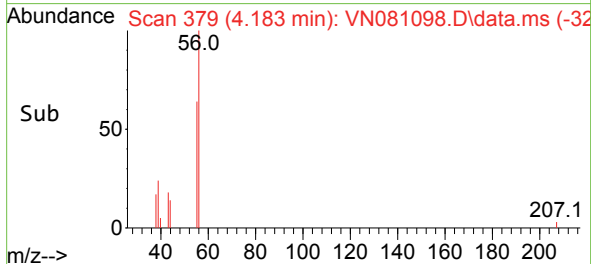
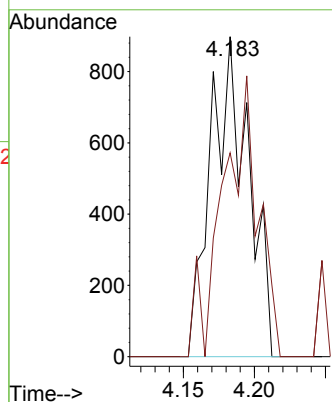
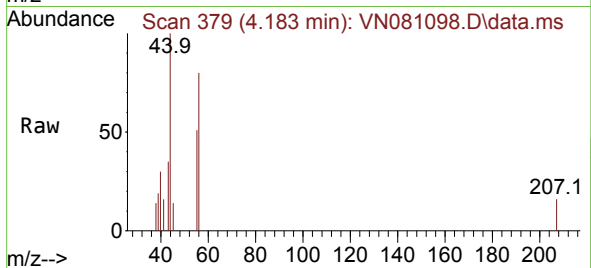




#13  
Acrolein  
Concen: 4.019 ug/l  
RT: 4.183 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

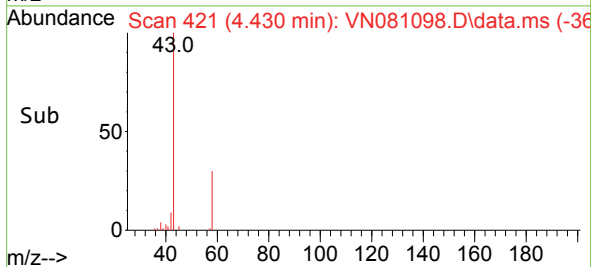
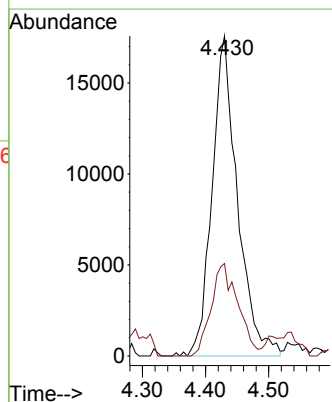
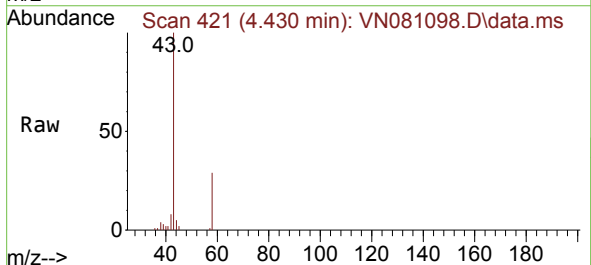
Instrument : MSVOA\_N  
ClientSampleId : 20240766-AMENDED-COMP-39N-N-3-01

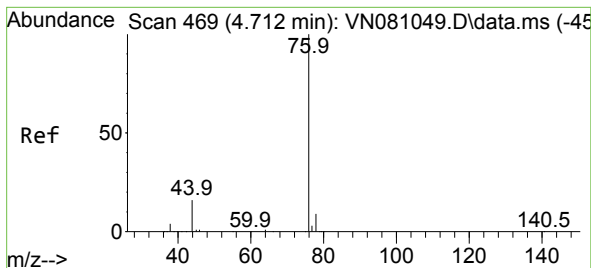
Tgt Ion: 56 Resp: 1648  
Ion Ratio Lower Upper  
56 100  
55 83.0 55.3 82.9#



#16  
Acetone  
Concen: 29.925 ug/l  
RT: 4.430 min Scan# 421  
Delta R.T. 0.012 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

Tgt Ion: 43 Resp: 48990  
Ion Ratio Lower Upper  
43 100  
58 28.9 24.8 37.2





#17

Carbon Disulfide

Concen: 0.446 ug/l

RT: 4.724 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN081098.D

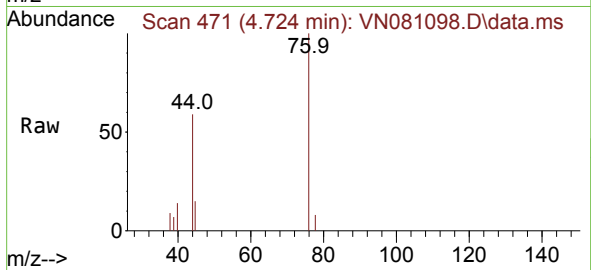
Acq: 20 Feb 2024 15:05

Instrument :

MSVOA\_N

ClientSampleId :

20240766-AMENDED-COMP-39N-N-3-01

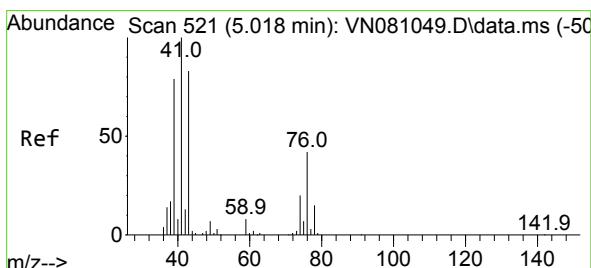
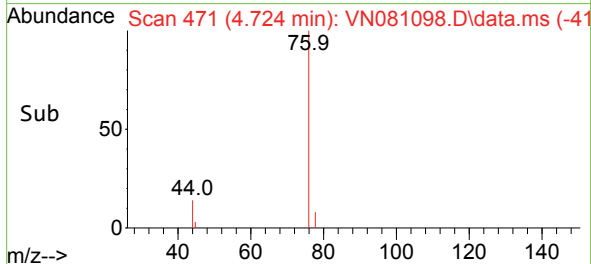
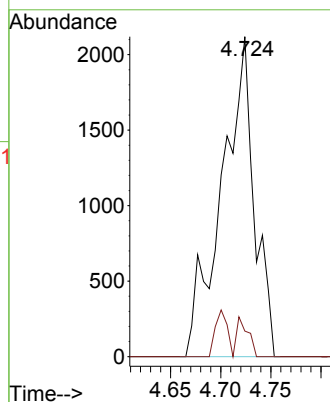


Tgt Ion: 76 Resp: 4776

Ion Ratio Lower Upper

76 100

78 8.0 6.3 9.5



#18

Methyl Acetate

Concen: 0.672 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN081098.D

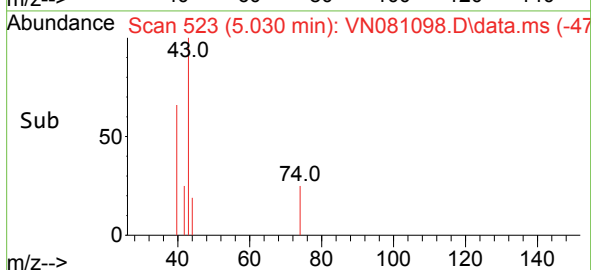
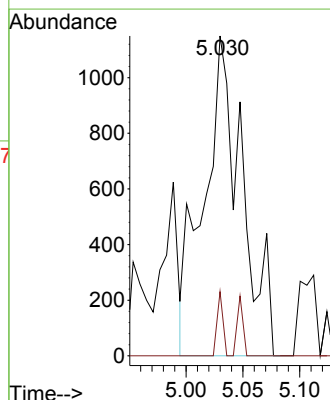
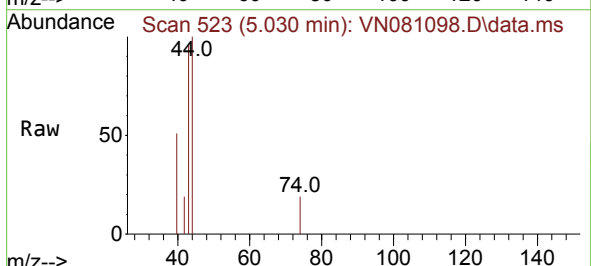
Acq: 20 Feb 2024 15:05

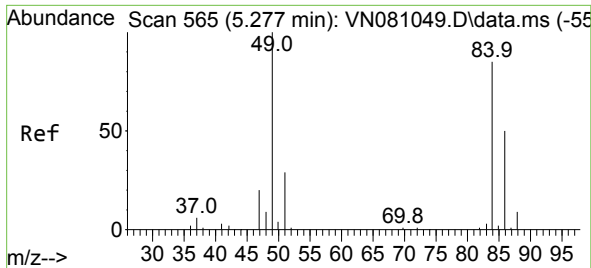
Tgt Ion: 43 Resp: 2685

Ion Ratio Lower Upper

43 100

74 3.1 17.3 25.9#

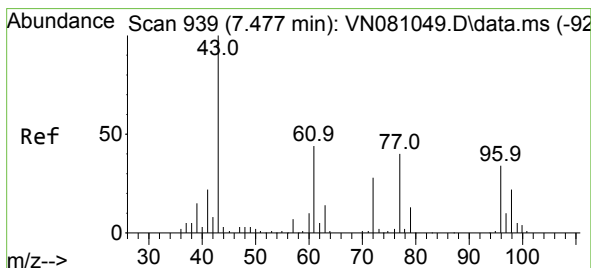
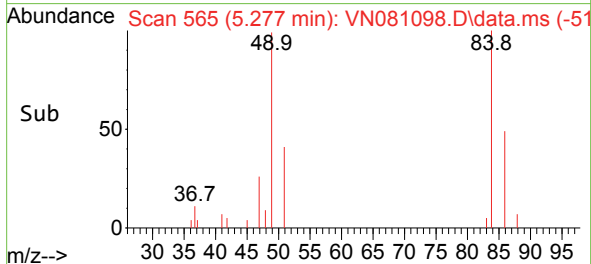
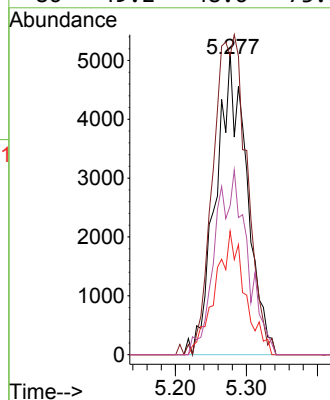
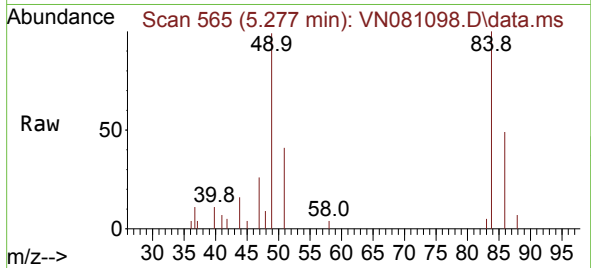




#20  
Methylene Chloride  
Concen: 2.780 ug/l  
RT: 5.277 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

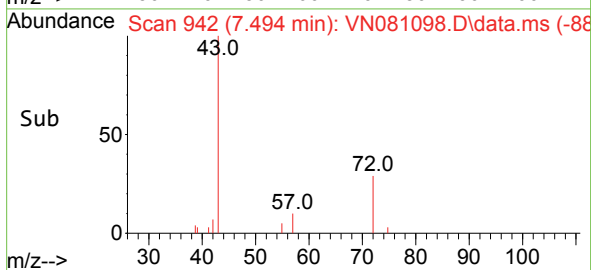
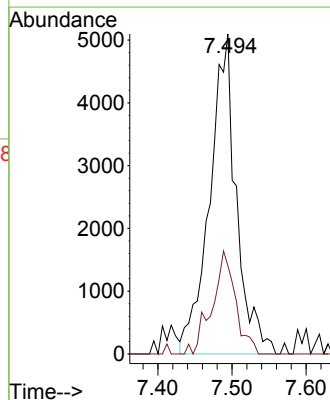
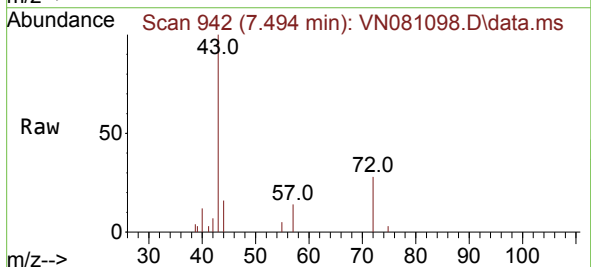
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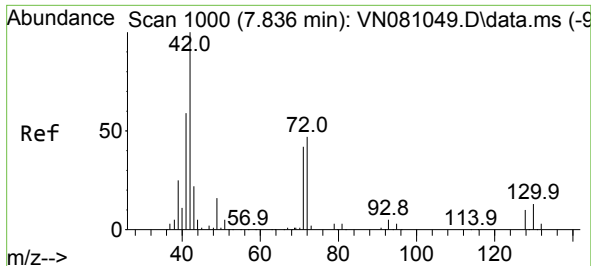
|             |              |
|-------------|--------------|
| Tgt Ion: 84 | Resp: 15493  |
| Ion Ratio   | Lower Upper  |
| 84 100      |              |
| 49 98.8     | 108.1 162.1# |
| 51 40.8     | 32.9 49.3    |
| 86 49.2     | 48.6 73.0    |



#25  
2-Butanone  
Concen: 4.822 ug/l  
RT: 7.494 min Scan# 942  
Delta R.T. 0.018 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 12754 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 72 27.6     | 19.5 29.3   |





#29

Tetrahydrofuran

Concen: 0.365 ug/l

RT: 7.824 min Scan# 91

Delta R.T. -0.012 min

Lab File: VN081098.D

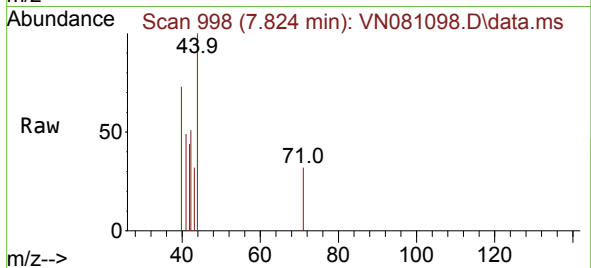
Acq: 20 Feb 2024 15:05

Instrument :

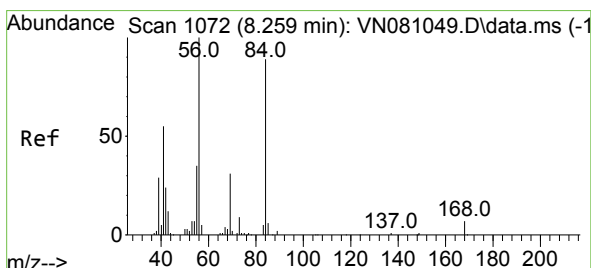
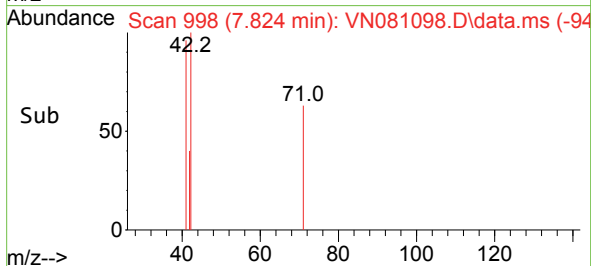
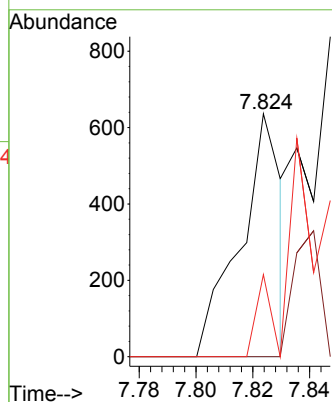
MSVOA\_N

ClientSampleId :

20240766-AMENDED-COMP-39N-N-3-01



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 645   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 33.0  | 31.1  | 46.7  |
| 71       | 97.7  | 28.3  | 42.5# |



#31

Cyclohexane

Concen: 1.199 ug/l

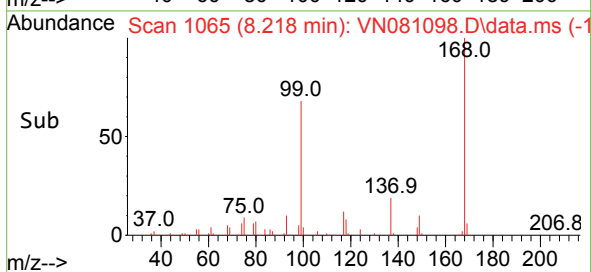
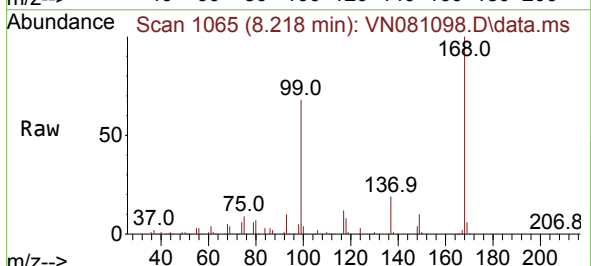
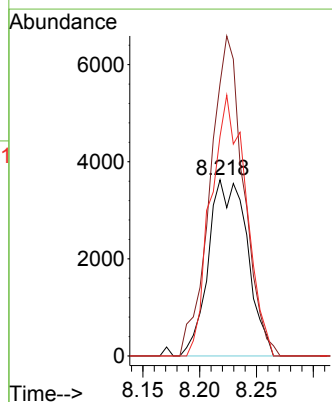
RT: 8.218 min Scan# 1065

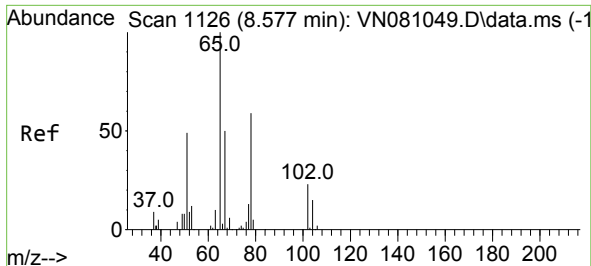
Delta R.T. -0.041 min

Lab File: VN081098.D

Acq: 20 Feb 2024 15:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 8615  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 154.6 | 20.1  | 30.1# |
| 84       | 124.8 | 56.9  | 85.3# |





#33

1,2-Dichloroethane-d4

Concen: 45.055 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN081098.D

Acq: 20 Feb 2024 15:05

Instrument :

MSVOA\_N

ClientSampleId :

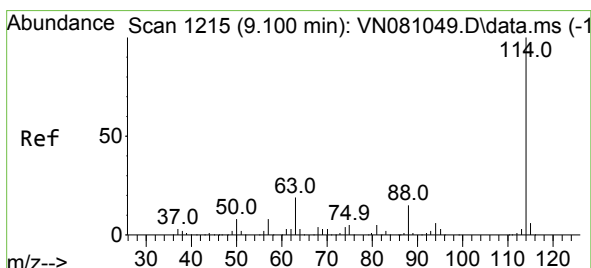
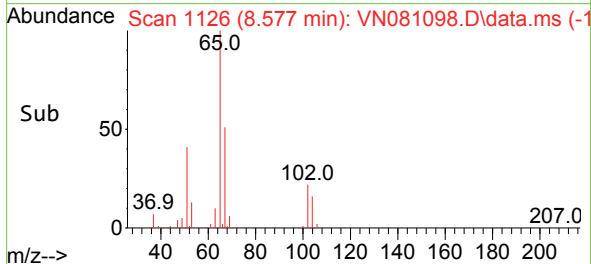
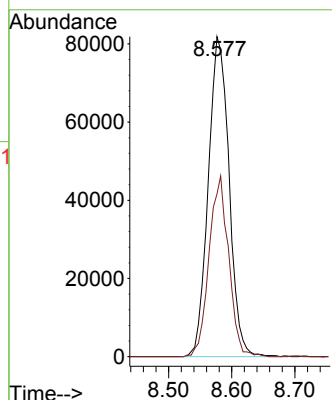
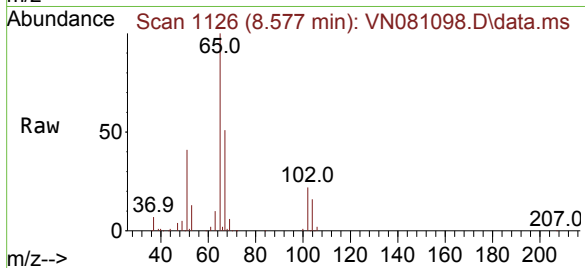
20240766-AMENDED-COMP-39N-N-3-01

Tgt Ion: 65 Resp: 187451

Ion Ratio Lower Upper

65 100

67 53.4 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN081098.D

Acq: 20 Feb 2024 15:05

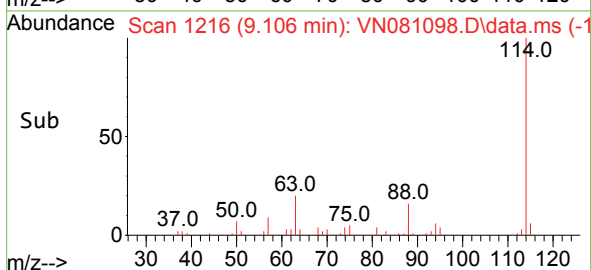
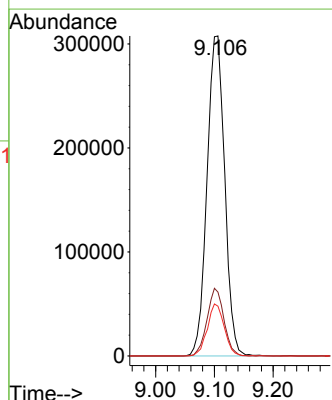
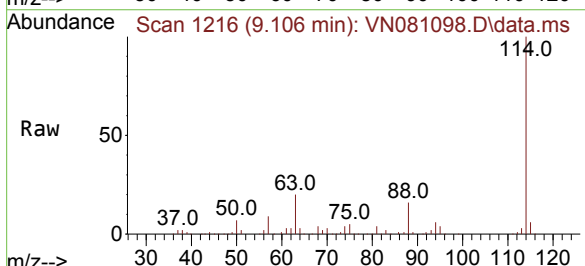
Tgt Ion: 114 Resp: 642719

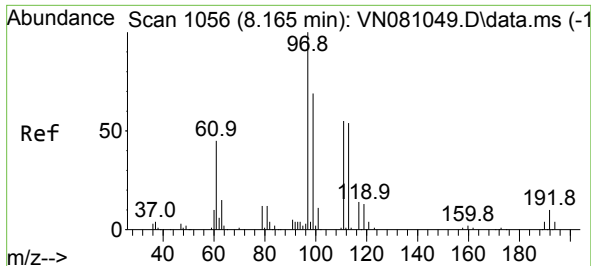
Ion Ratio Lower Upper

114 100

63 19.9 0.0 48.0

88 15.6 0.0 34.8





#35

Dibromofluoromethane

Concen: 0.256 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. 0.059 min

Lab File: VN081098.D

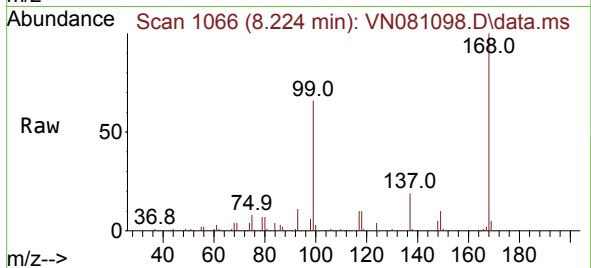
Acq: 20 Feb 2024 15:05

Instrument :

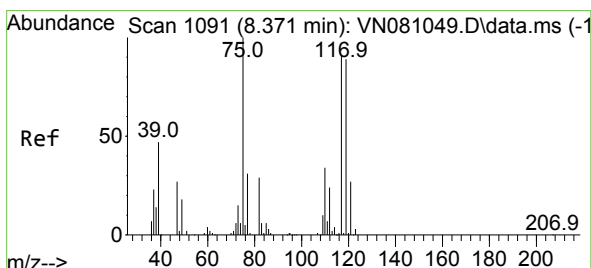
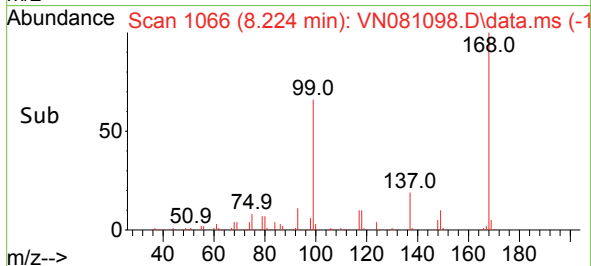
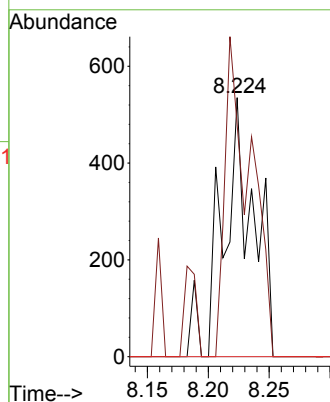
MSVOA\_N

ClientSampleId :

20240766-AMENDED-COMP-39N-N-3-01



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 932   |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 103.4 | 82.2  | 123.4 |
| 192      | 0.0   | 12.5  | 18.7# |



#36

1,1-Dichloropropene

Concen: 4.746 ug/l

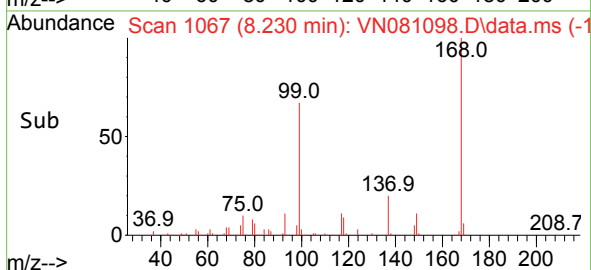
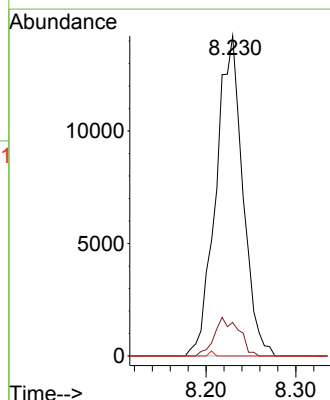
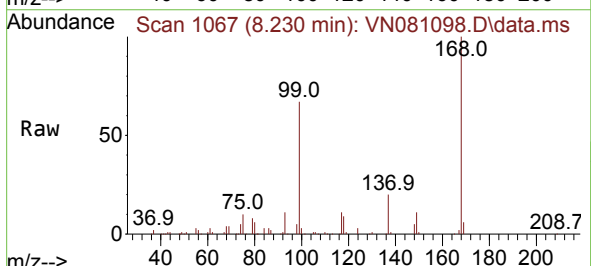
RT: 8.230 min Scan# 1067

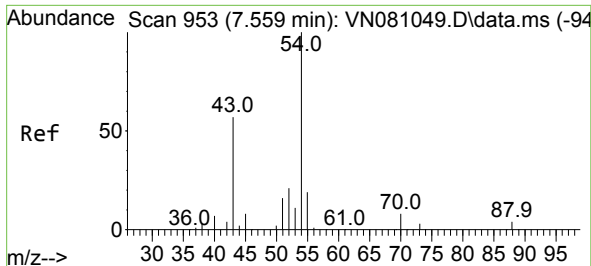
Delta R.T. -0.141 min

Lab File: VN081098.D

Acq: 20 Feb 2024 15:05

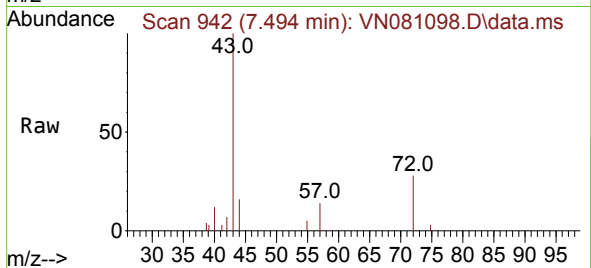
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 29549 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 0.0   | 16.0  | 48.0# |
| 77       | 0.0   | 25.8  | 38.6# |



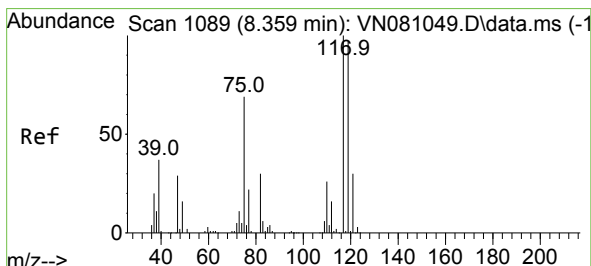
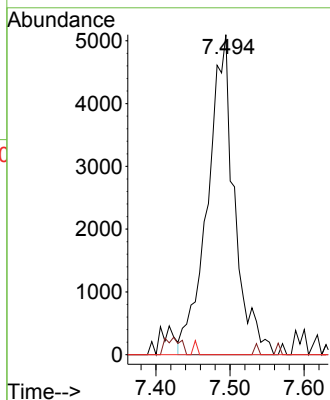
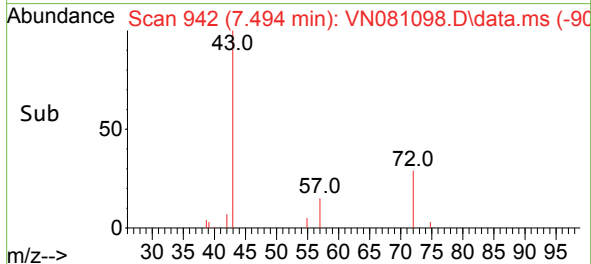


#37  
Ethyl Acetate  
Concen: 2.270 ug/l  
RT: 7.494 min Scan# 94  
Delta R.T. -0.065 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

Instrument :  
MSVOA\_N  
ClientSampleId :  
20240766-AMENDED-COMP-39N-N-3-01

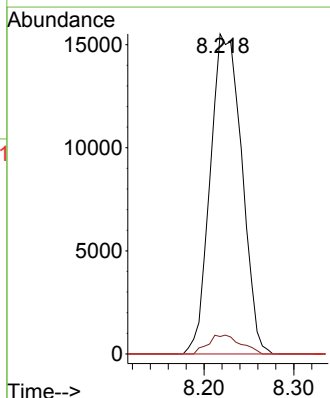
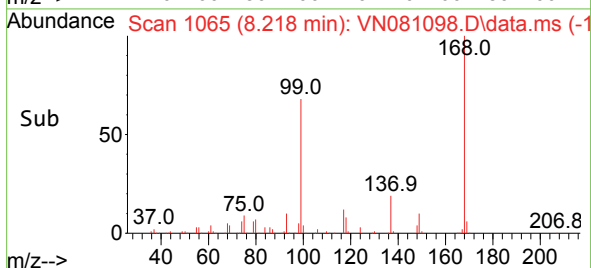
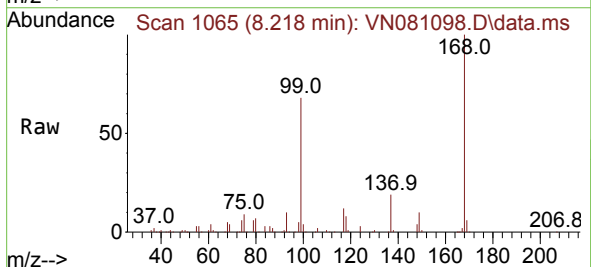


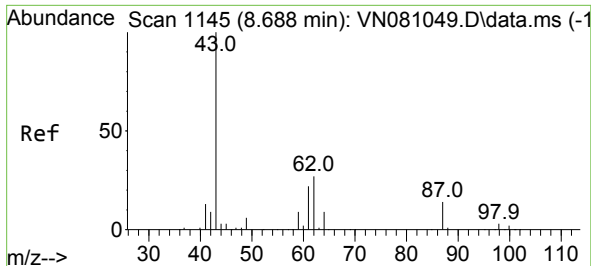
Tgt Ion: 43 Resp: 12754  
Ion Ratio Lower Upper  
43 100  
61 0.0 10.6 15.8#  
70 0.0 8.0 12.0#



#38  
Carbon Tetrachloride  
Concen: 6.009 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.141 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

Tgt Ion: 117 Resp: 37854  
Ion Ratio Lower Upper  
117 100  
119 5.5 73.4 110.2#  
121 0.0 24.4 36.6#

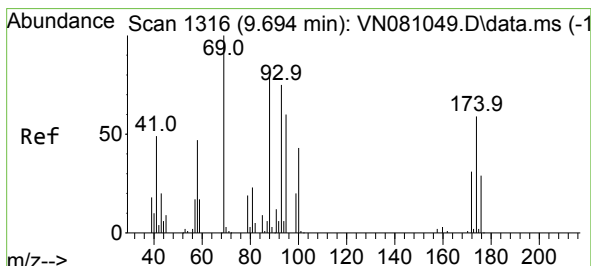
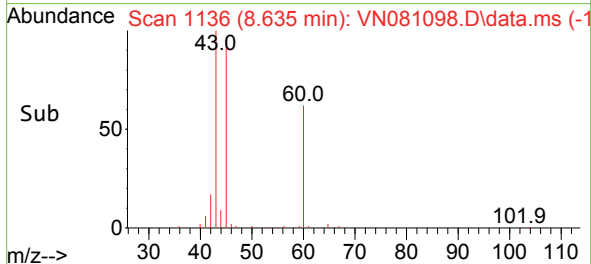
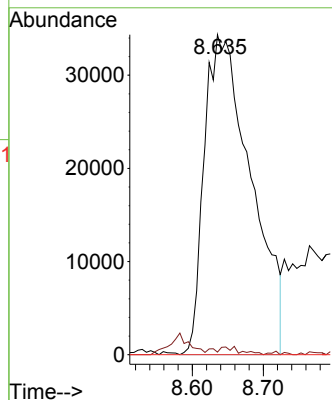
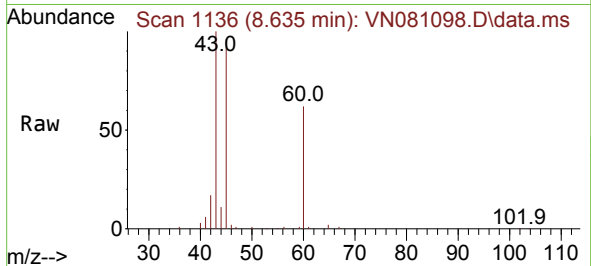




#43  
Isopropyl Acetate  
Concen: 15.978 ug/l  
RT: 8.635 min Scan# 1136  
Delta R.T. -0.053 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

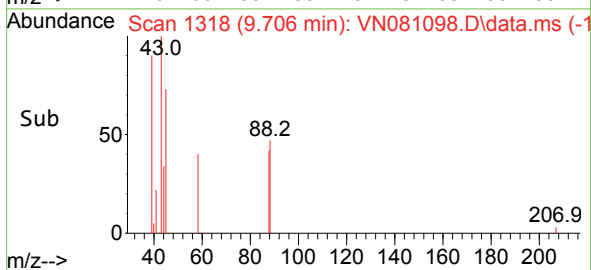
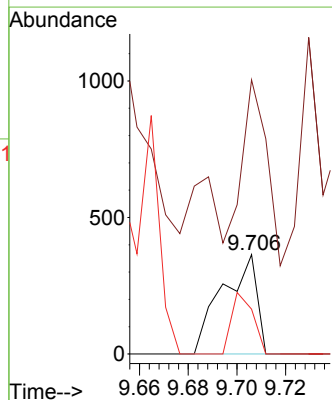
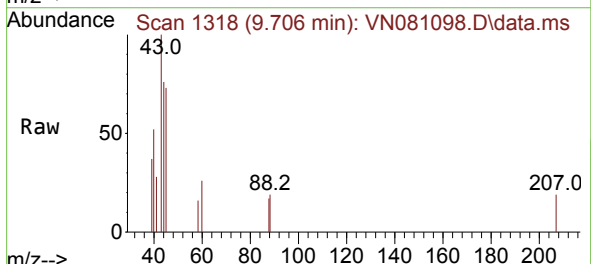
Instrument : MSVOA\_N  
ClientSampleId : 20240766-AMENDED-COMP-39N-N-3-01

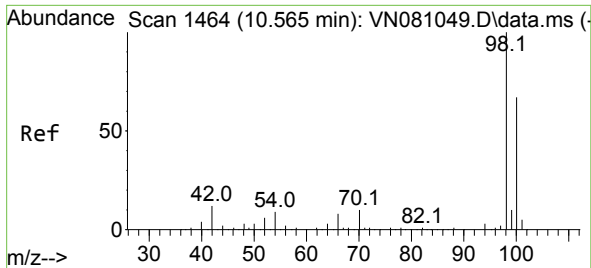
Tgt Ion: 43 Resp: 157033  
Ion Ratio Lower Upper  
43 100  
61 0.3 19.9 29.9#  
87 0.0 9.0 13.6#



#49  
1,4-Dioxane  
Concen: Below Cal  
RT: 9.706 min Scan# 1318  
Delta R.T. 0.012 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

Tgt Ion: 88 Resp: 361  
Ion Ratio Lower Upper  
88 100  
43 134.1 30.1 45.1#  
58 38.0 63.9 95.9#

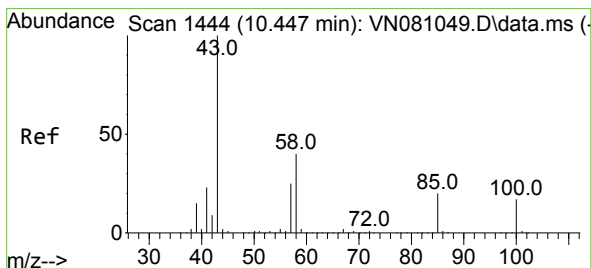
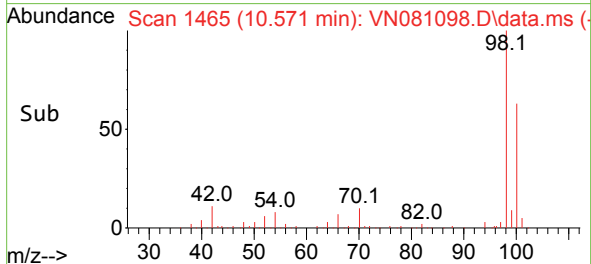
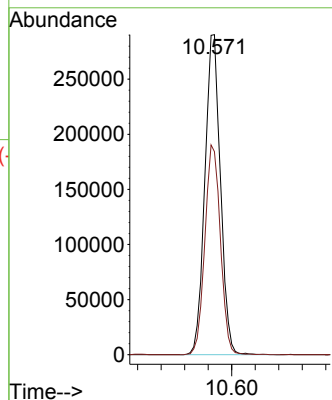
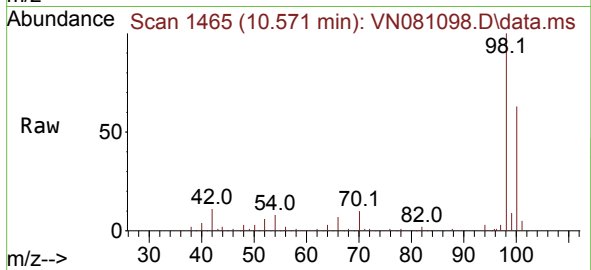




#50  
Toluene-d8  
Concen: 41.306 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.006 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

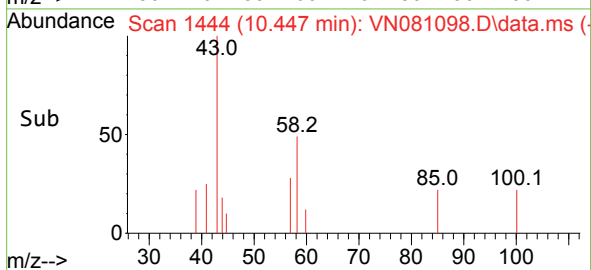
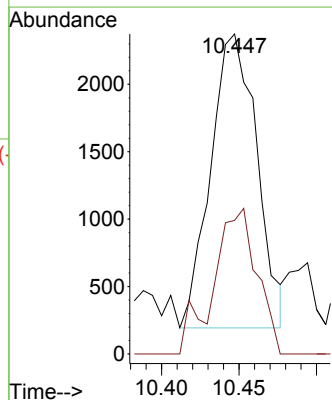
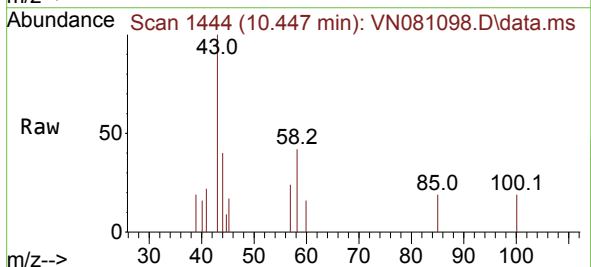
Instrument :  
MSVOA\_N  
ClientSampleId :  
20240766-AMENDED-COMP-39N-N-3-01

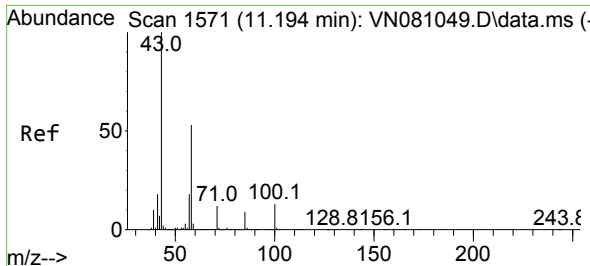
Tgt Ion: 98 Resp: 533186  
Ion Ratio Lower Upper  
98 100  
100 65.3 51.4 77.0



#51  
4-Methyl-2-Pentanone  
Concen: 0.797 ug/l  
RT: 10.447 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

Tgt Ion: 43 Resp: 4508  
Ion Ratio Lower Upper  
43 100  
58 46.7 29.4 44.0#

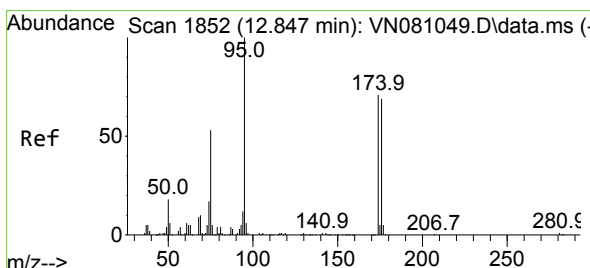
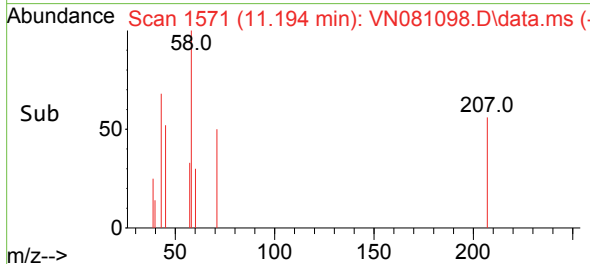
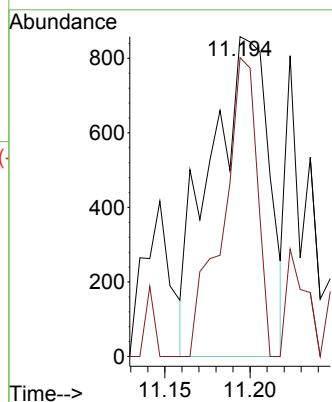
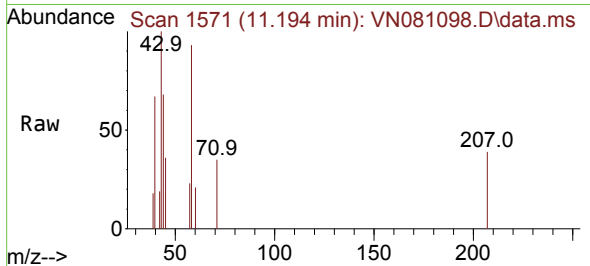




#59  
2-Hexanone  
Concen: 0.458 ug/l  
RT: 11.194 min Scan# 1117  
Delta R.T. -0.000 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

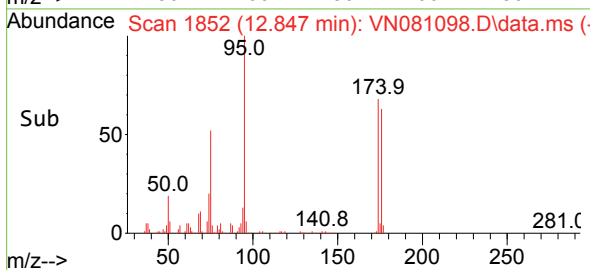
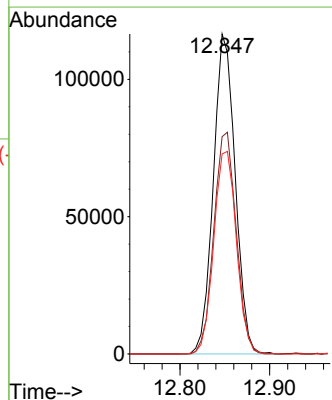
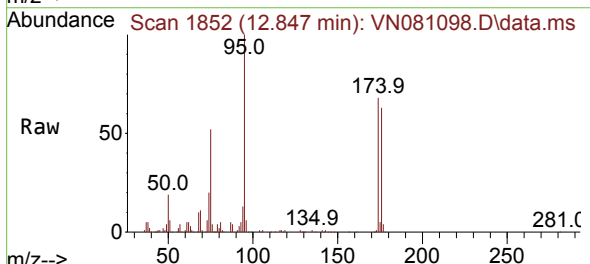
Instrument : MSVOA\_N  
ClientSampleId : 20240766-AMENDED-COMP-39N-N-3-01

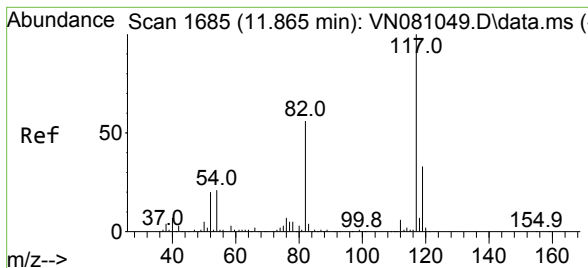
Tgt Ion: 43 Resp: 2051  
Ion Ratio Lower Upper  
43 100  
58 54.6 25.9 77.8



#62  
4-Bromofluorobenzene  
Concen: 40.594 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

Tgt Ion: 95 Resp: 196896  
Ion Ratio Lower Upper  
95 100  
174 71.1 0.0 120.4  
176 65.7 0.0 121.0

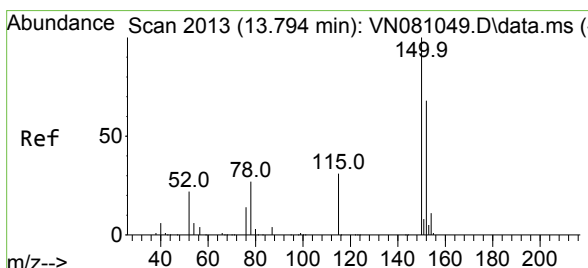
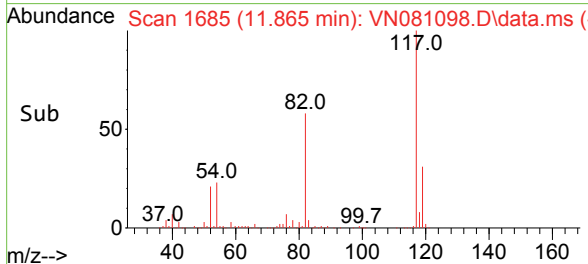
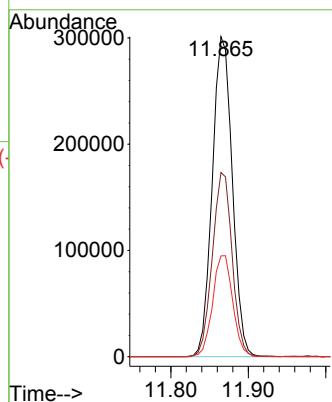
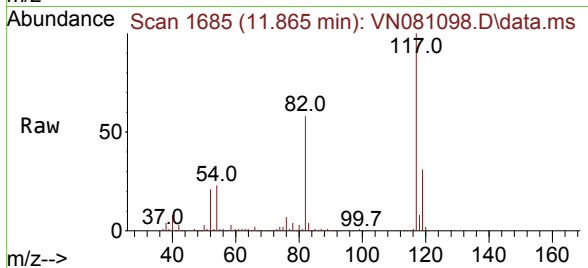




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

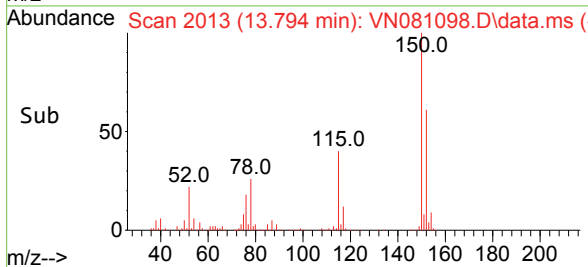
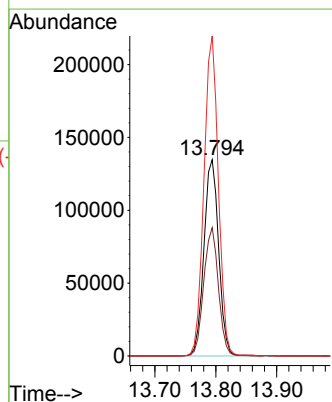
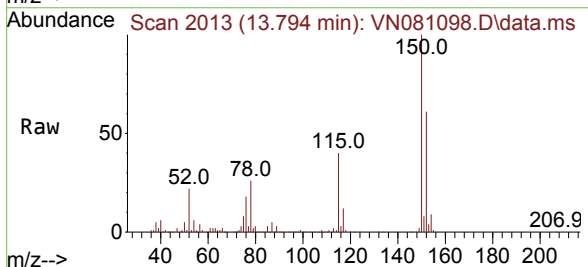
Instrument :  
MSVOA\_N  
ClientSampleId :  
20240766-AMENDED-COMP-39N-N-3-01

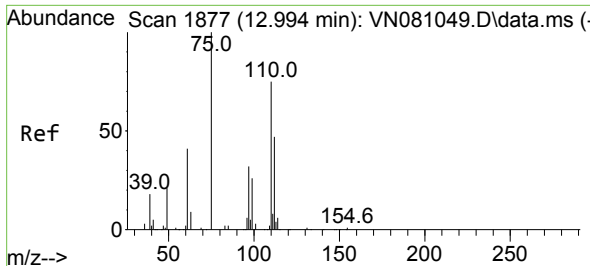
Tgt Ion:117 Resp: 540740  
Ion Ratio Lower Upper  
117 100  
82 57.5 52.7 79.1  
119 31.5 25.3 37.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 2013  
Delta R.T. -0.000 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

Tgt Ion:152 Resp: 226288  
Ion Ratio Lower Upper  
152 100  
115 65.1 32.3 96.8  
150 159.4 0.0 339.8

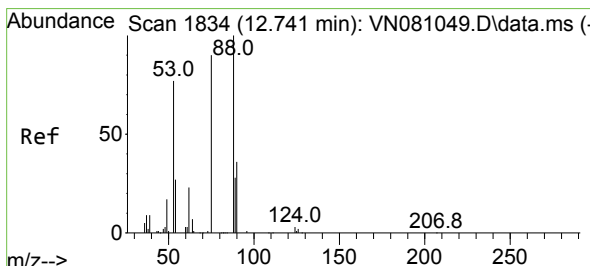
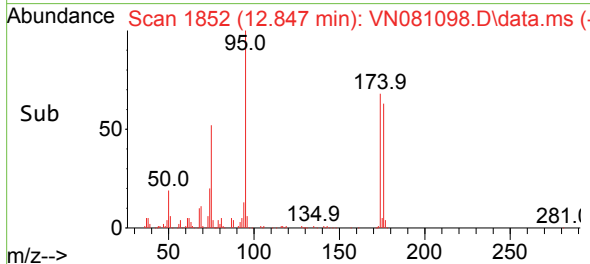
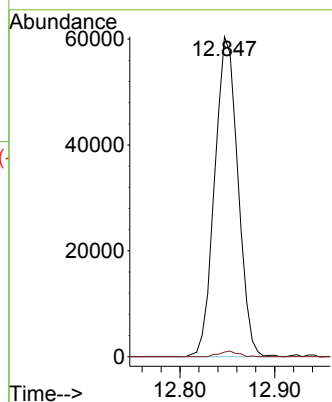
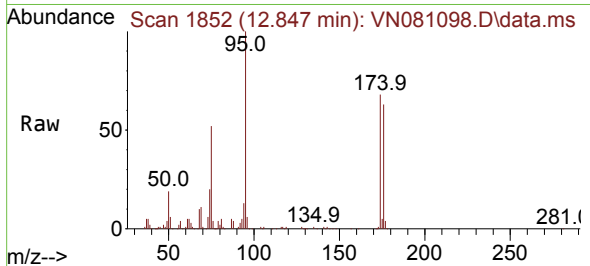




#76  
1,2,3-Trichloropropane  
Concen: 20.056 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

Instrument : MSVOA\_N  
ClientSampleId : 20240766-AMENDED-COMP-39N-N-3-01

Tgt Ion: 75 Resp: 103117  
Ion Ratio Lower Upper  
75 100  
77 1.4 91.0 272.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 51.623 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.106 min  
Lab File: VN081098.D  
Acq: 20 Feb 2024 15:05

Tgt Ion: 75 Resp: 103117  
Ion Ratio Lower Upper  
75 100  
53 0.0 71.4 107.2#  
89 0.0 33.4 50.0#

