

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN052824\  
 Data File : VN082343.D  
 Acq On : 28 May 2024 13:41  
 Operator : JC\MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: May 29 06:49:27 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051524W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 16 05:21:06 2024  
 Response via : Initial Calibration

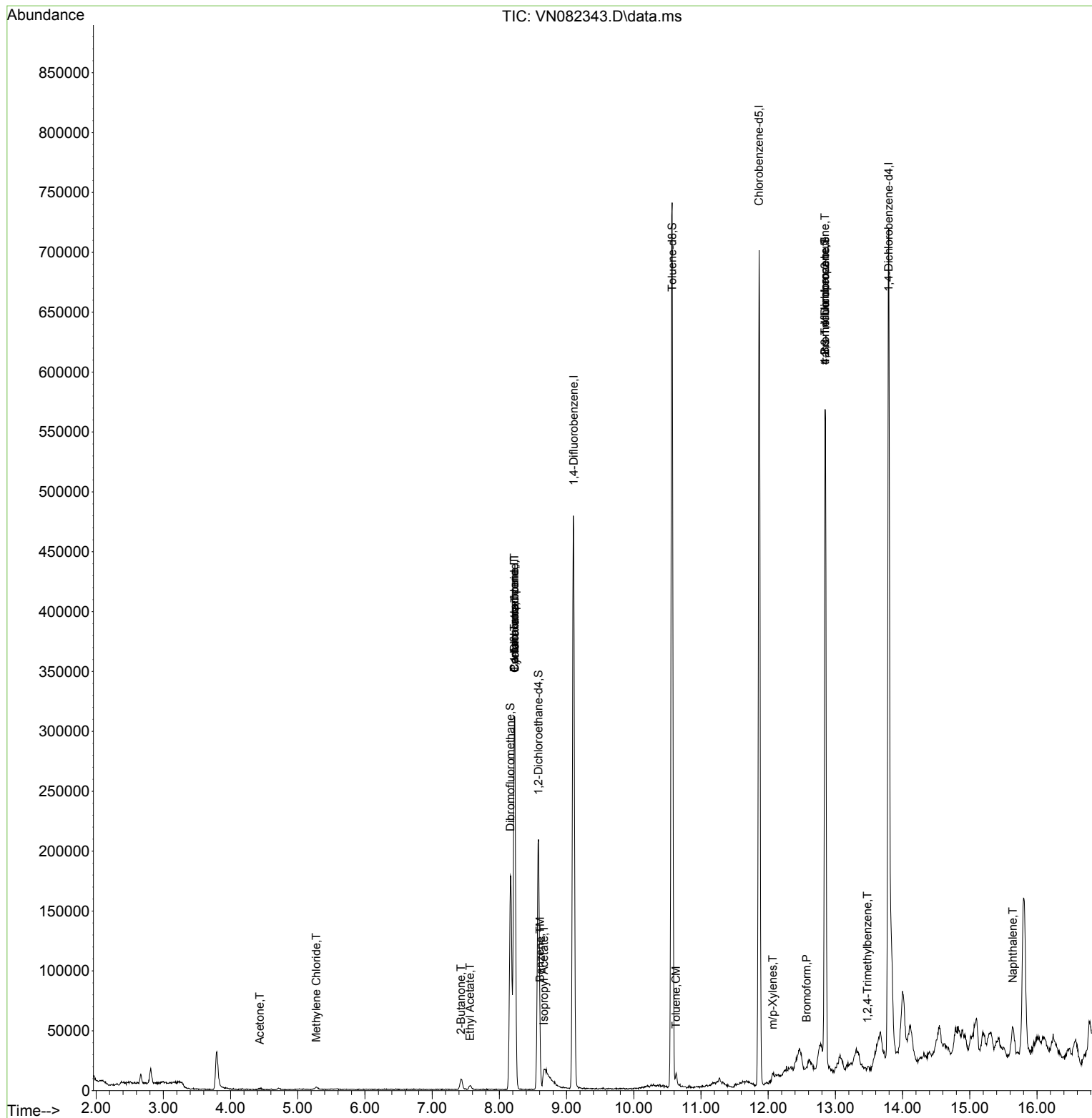
| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 225997     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 392884     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 365887     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 169949     | 50.000   | ug/l   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.583          | 65   | 173146     | 48.520   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 97.040%  |        |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 125205     | 51.805   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 103.620% |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 488956     | 52.769   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 105.540% |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 180240     | 54.498   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 64 - 133 |      | Recovery = | 109.000% |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          | Qvalue |          |
| 16) Acetone                   | 4.436          | 43   | 1843       | 1.259    | ug/l # | 43       |
| 20) Methylene Chloride        | 5.277          | 84   | 763        | 0.258    | ug/l # | 91       |
| 25) 2-Butanone                | 7.430          | 43   | 575        | 0.259    | ug/l # | 43       |
| 31) Cyclohexane               | 8.230          | 56   | 6616       | 1.161    | ug/l # | 58       |
| 36) 1,1-Dichloropropene       | 8.224          | 75   | 19561      | 4.826    | ug/l # | 50       |
| 37) Ethyl Acetate             | 7.565          | 43   | 6025       | 1.328    | ug/l # | 88       |
| 38) Carbon Tetrachloride      | 8.224          | 117  | 24204      | 5.890    | ug/l # | 16       |
| 40) Benzene                   | 8.606          | 78   | 2909       | 0.241    | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.665          | 43   | 12954      | 1.612    | ug/l # | 52       |
| 52) Toluene                   | 10.630         | 92   | 3783       | 0.522    | ug/l # | 73       |
| 68) m/p-Xylenes               | 12.071         | 106  | 1124       | 0.212    | ug/l # | 7        |
| 71) Bromoform                 | 12.571         | 173  | 196        | 0.792    | ug/l # | 28       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 106198     | 29.689   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 106198     | 69.441   | ug/l # | 12       |
| 84) 1,2,4-Trimethylbenzene    | 13.476         | 105  | 2286       | 0.205    | ug/l   | 82       |
| 95) Naphthalene               | 15.641         | 128  | 7787       | 0.803    | ug/l # | 61       |
| -----                         |                |      |            |          |        |          |

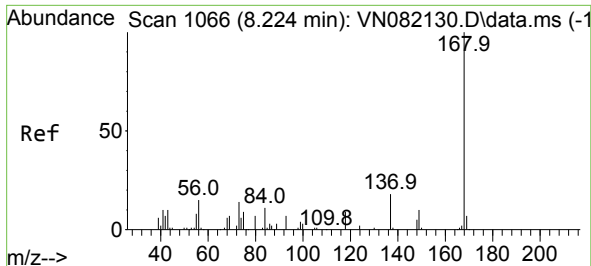
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

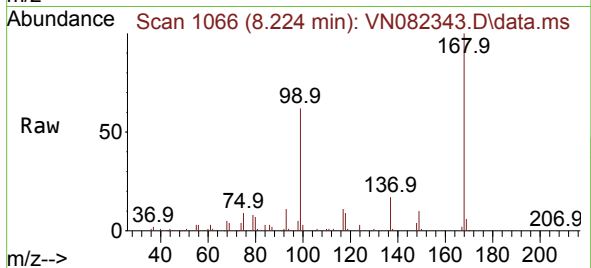
Quant Time: May 29 06:49:27 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051524W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 16 05:21:06 2024  
Response via : Initial Calibration



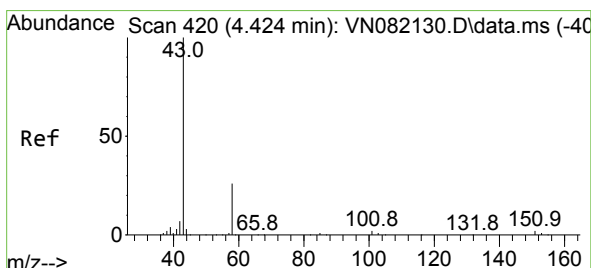
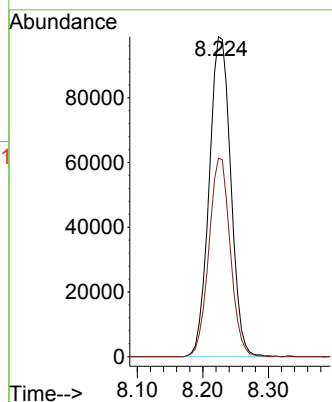
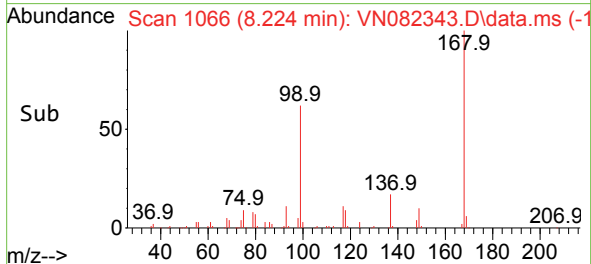


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN082343.D  
Acq: 28 May 2024 13:41

Instrument :  
MSVOA\_N  
ClientSampleId :

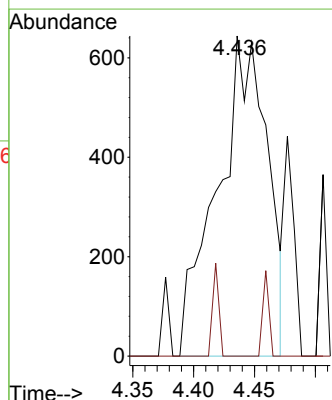
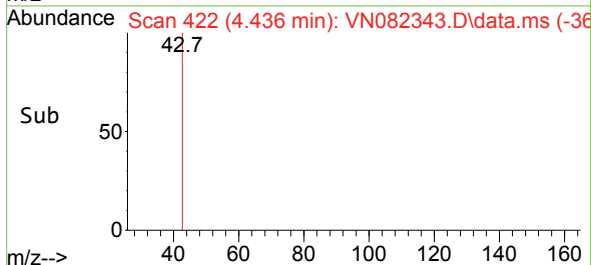
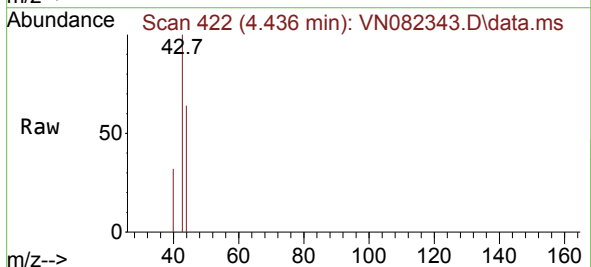


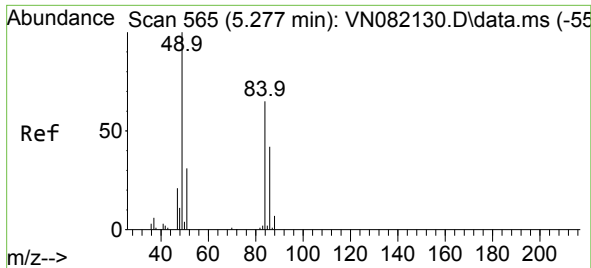
Tgt Ion:168 Resp: 225997  
Ion Ratio Lower Upper  
168 100  
99 62.0 48.2 72.4



#16  
Acetone  
Concen: 1.259 ug/l  
RT: 4.436 min Scan# 422  
Delta R.T. 0.012 min  
Lab File: VN082343.D  
Acq: 28 May 2024 13:41

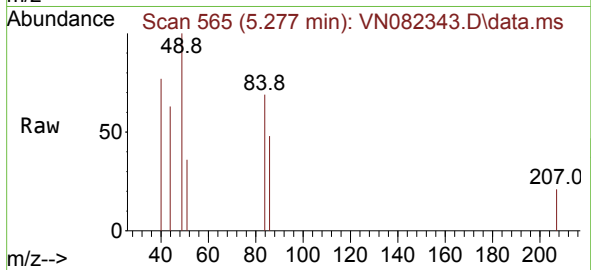
Tgt Ion: 43 Resp: 1843  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.2 37.8#



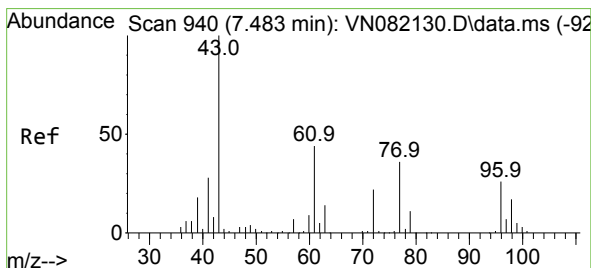
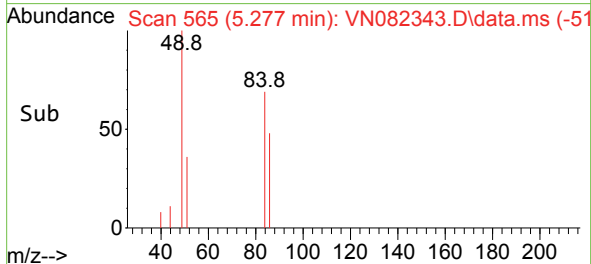
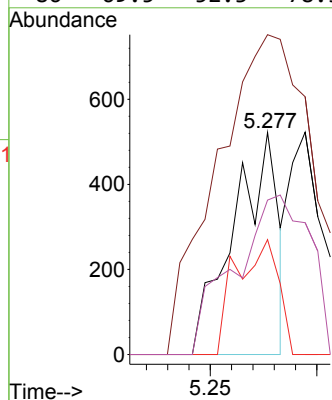


#20  
Methylene Chloride  
Concen: 0.258 ug/l  
RT: 5.277 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VN082343.D  
Acq: 28 May 2024 13:41

Instrument :  
MSVOA\_N  
ClientSampleId :

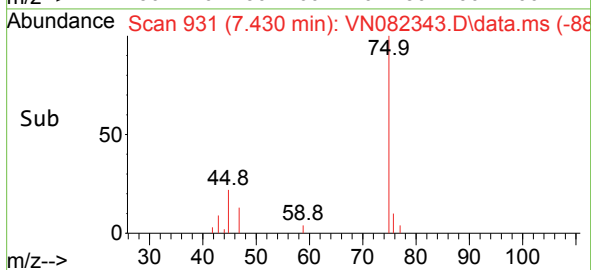
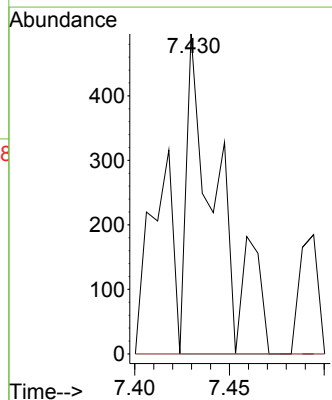
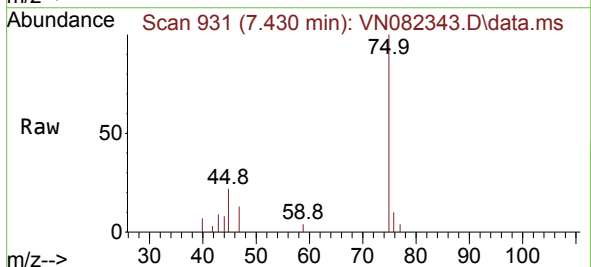


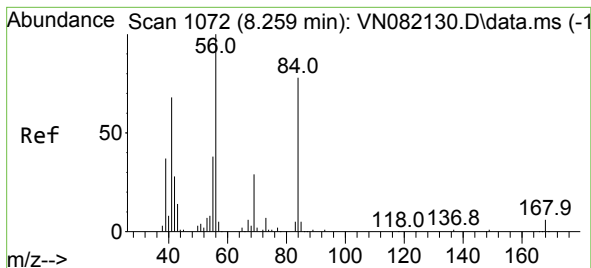
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 763   |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 102.7 | 84.9  | 127.3 |
| 51       | 51.7  | 27.0  | 40.6# |
| 86       | 69.5  | 52.3  | 78.5  |



#25  
2-Butanone  
Concen: 0.259 ug/l  
RT: 7.430 min Scan# 931  
Delta R.T. -0.053 min  
Lab File: VN082343.D  
Acq: 28 May 2024 13:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 575   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 25.3  | 37.9# |





#31

Cyclohexane

Concen: 1.161 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.029 min

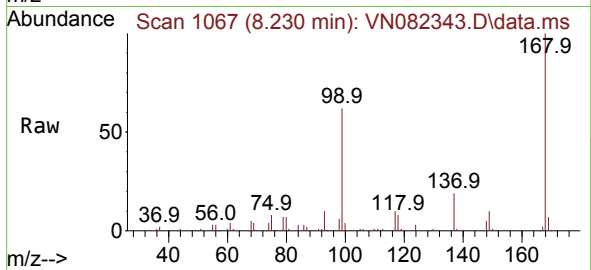
Lab File: VN082343.D

Acq: 28 May 2024 13:41

Instrument :

MSVOA\_N

ClientSampleId :



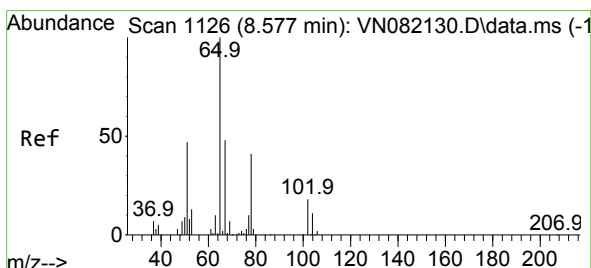
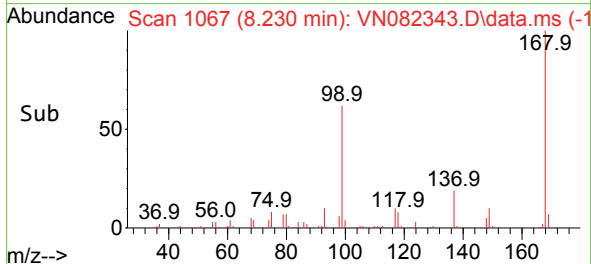
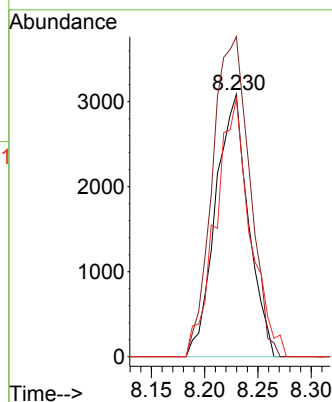
Tgt Ion: 56 Resp: 6616

Ion Ratio Lower Upper

56 100

69 122.0 24.4 36.6#

84 98.5 77.0 115.4



#33

1,2-Dichloroethane-d4

Concen: 48.520 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN082343.D

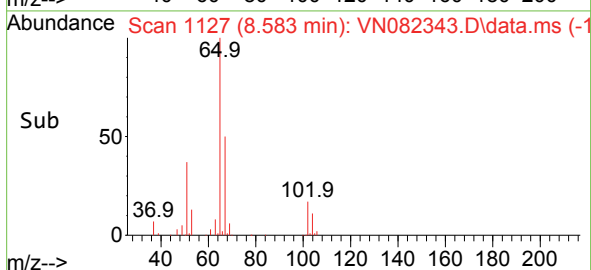
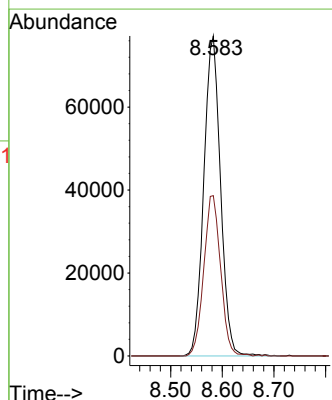
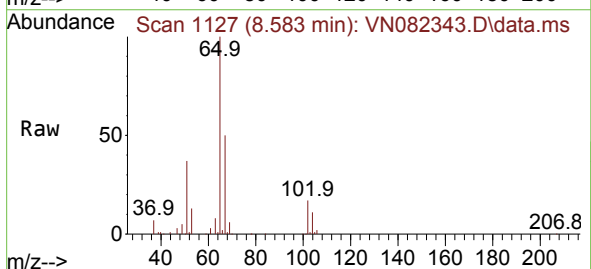
Acq: 28 May 2024 13:41

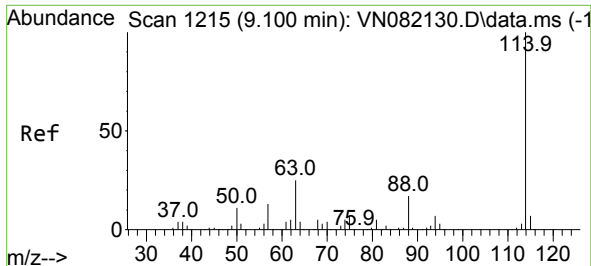
Tgt Ion: 65 Resp: 173146

Ion Ratio Lower Upper

65 100

67 50.5 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN082343.D

Acq: 28 May 2024 13:41

Instrument :

MSVOA\_N

ClientSampleId :

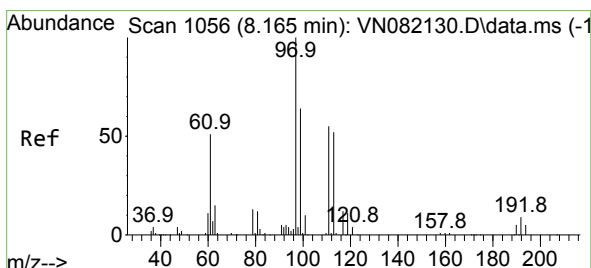
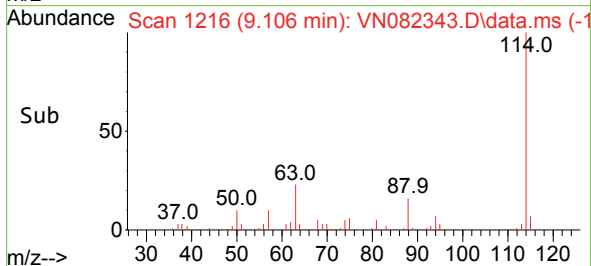
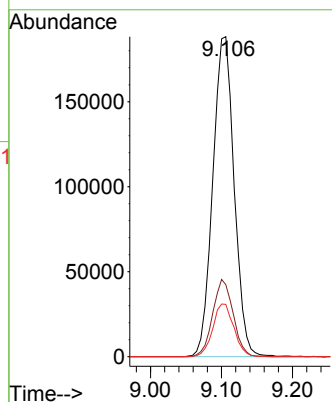
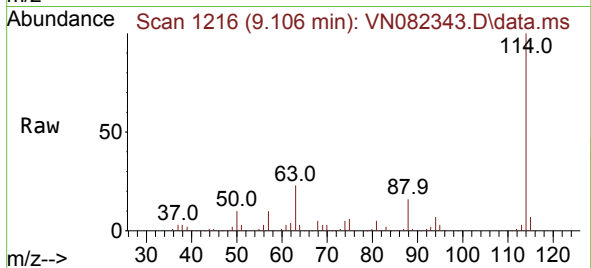
Tgt Ion:114 Resp: 392884

Ion Ratio Lower Upper

114 100

63 22.5 0.0 41.0

88 16.3 0.0 31.4



#35

Dibromofluoromethane

Concen: 51.805 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN082343.D

Acq: 28 May 2024 13:41

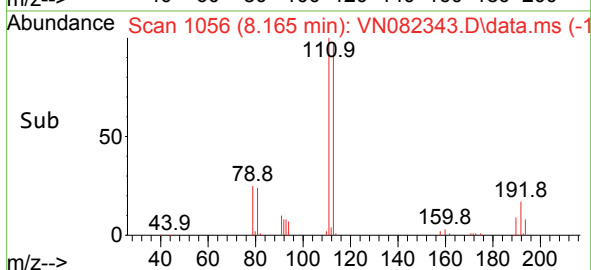
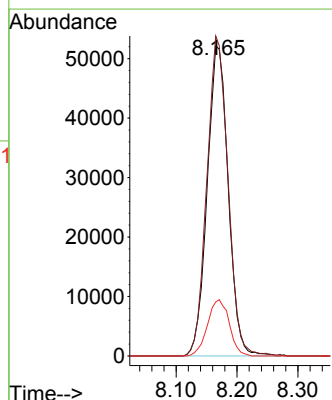
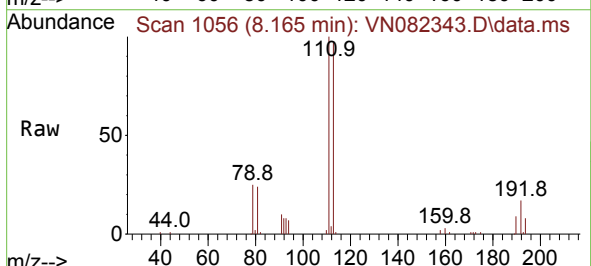
Tgt Ion:113 Resp: 125205

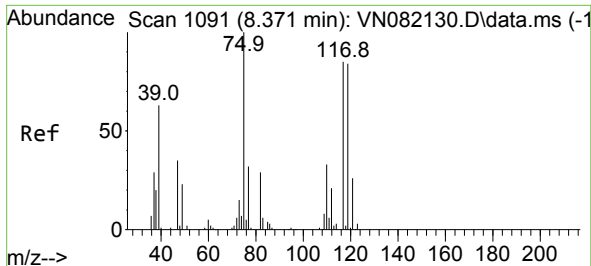
Ion Ratio Lower Upper

113 100

111 103.7 83.4 125.2

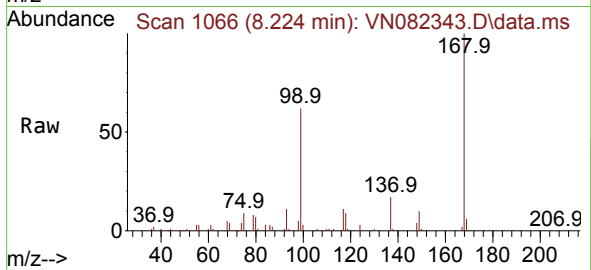
192 18.7 14.0 21.0



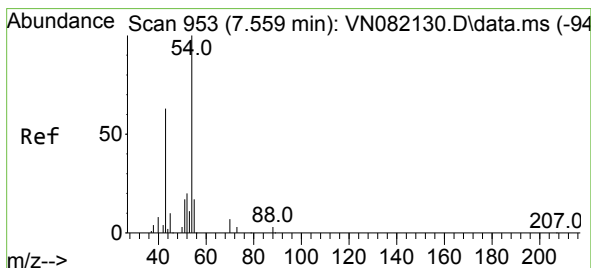
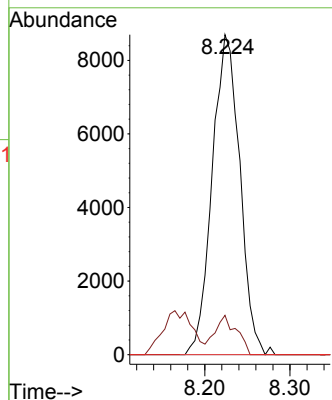
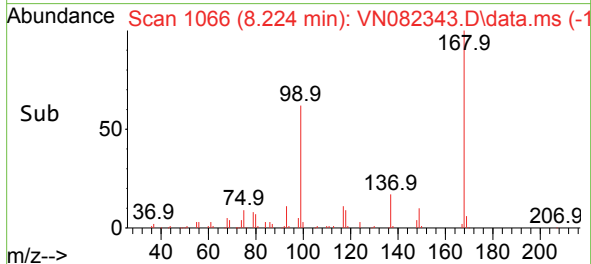


#36  
1,1-Dichloropropene  
Concen: 4.826 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.147 min  
Lab File: VN082343.D  
Acq: 28 May 2024 13:41

Instrument :  
MSVOA\_N  
ClientSampleId :

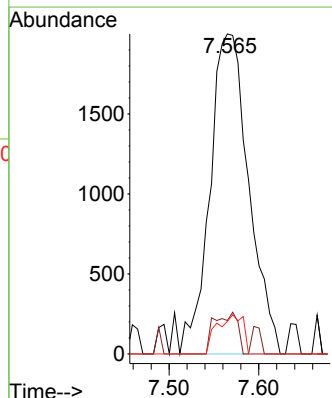
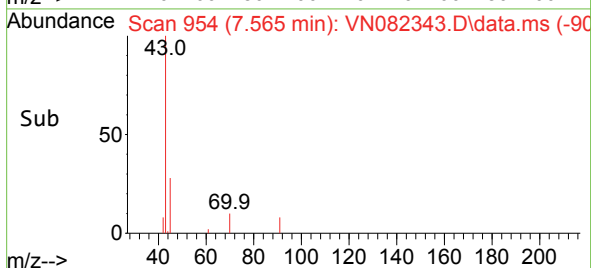
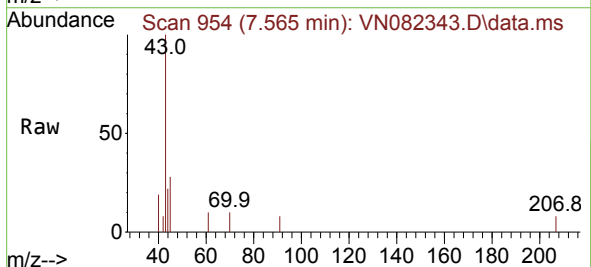


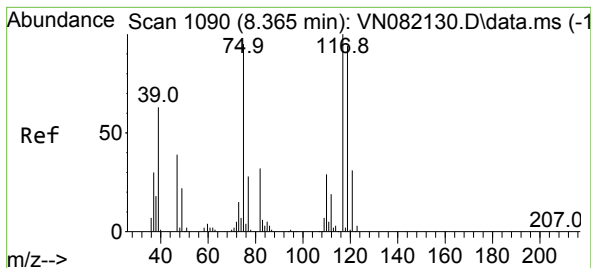
Tgt Ion: 75 Resp: 19561  
Ion Ratio Lower Upper  
75 100  
110 9.6 17.8 53.5#  
77 0.0 25.0 37.4#



#37  
Ethyl Acetate  
Concen: 1.328 ug/l  
RT: 7.565 min Scan# 954  
Delta R.T. 0.006 min  
Lab File: VN082343.D  
Acq: 28 May 2024 13:41

Tgt Ion: 43 Resp: 6025  
Ion Ratio Lower Upper  
43 100  
61 7.8 11.3 16.9#  
70 8.2 8.7 13.1#





#38

Carbon Tetrachloride

Concen: 5.890 ug/l

RT: 8.224 min Scan# 1106

Delta R.T. -0.141 min

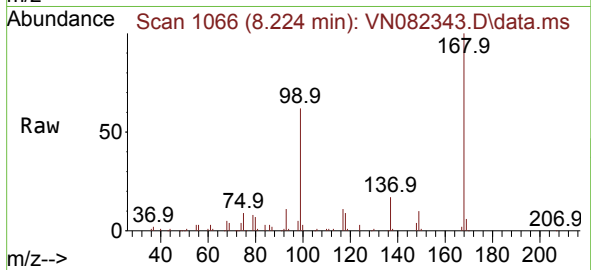
Lab File: VN082343.D

Acq: 28 May 2024 13:41

Instrument :

MSVOA\_N

ClientSampleId :



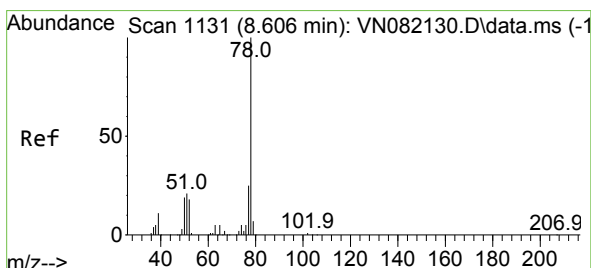
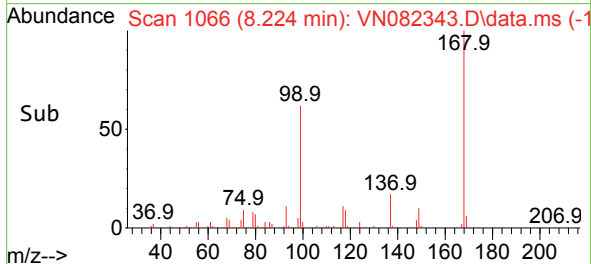
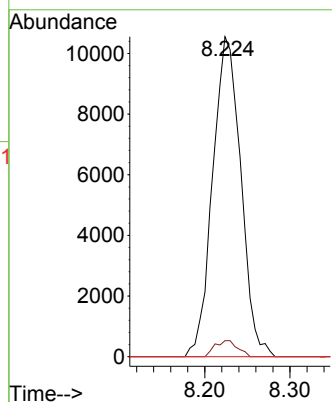
Tgt Ion:117 Resp: 24204

Ion Ratio Lower Upper

117 100

119 5.0 76.5 114.7#

121 0.0 23.9 35.9#



#40

Benzene

Concen: 0.241 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN082343.D

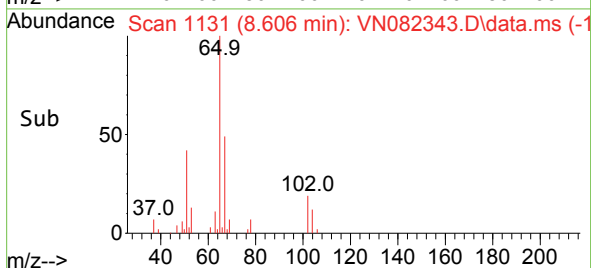
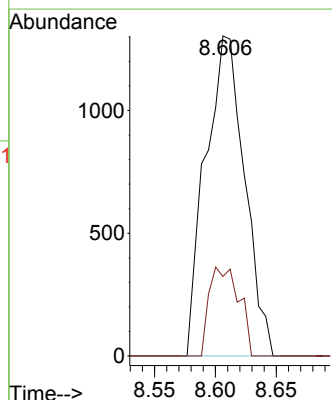
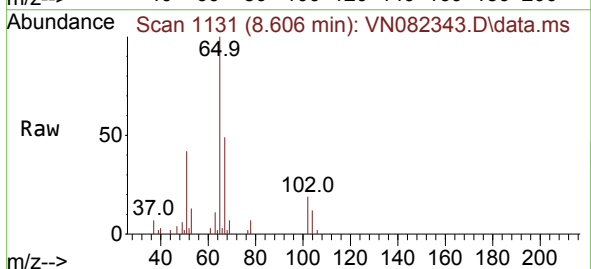
Acq: 28 May 2024 13:41

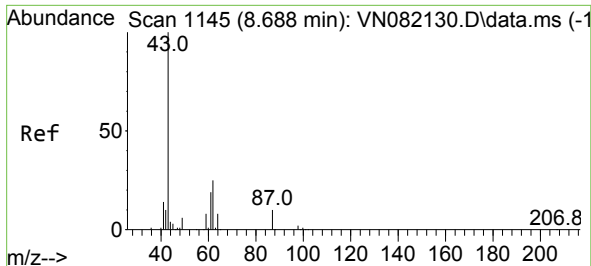
Tgt Ion: 78 Resp: 2909

Ion Ratio Lower Upper

78 100

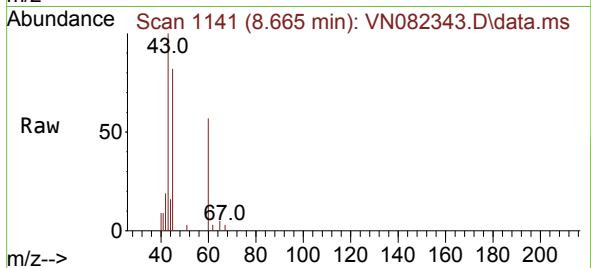
77 24.8 20.0 30.0



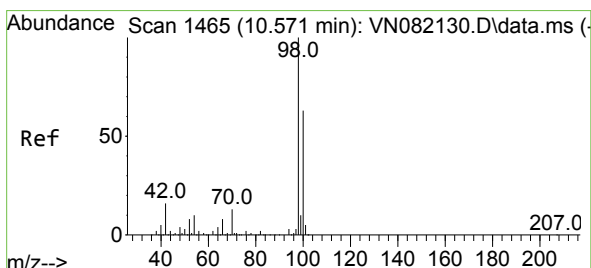
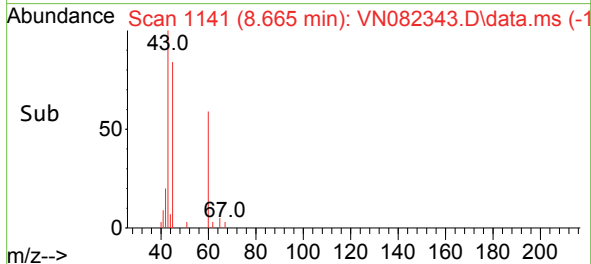
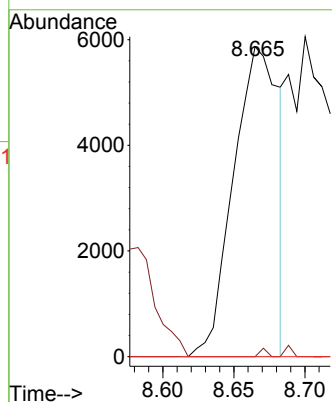


#43  
Isopropyl Acetate  
Concen: 1.612 ug/l  
RT: 8.665 min Scan# 1145  
Delta R.T. -0.024 min  
Lab File: VN082343.D  
Acq: 28 May 2024 13:41

Instrument :  
MSVOA\_N  
ClientSampleId :

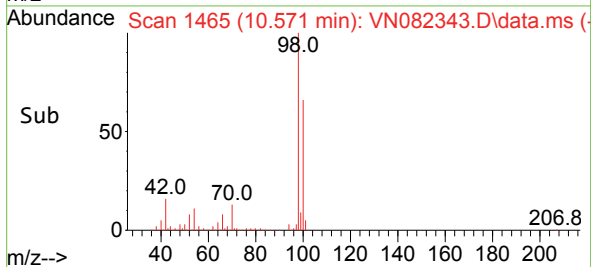
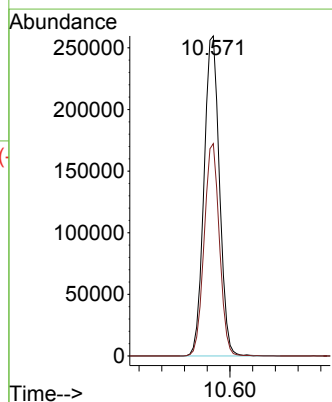
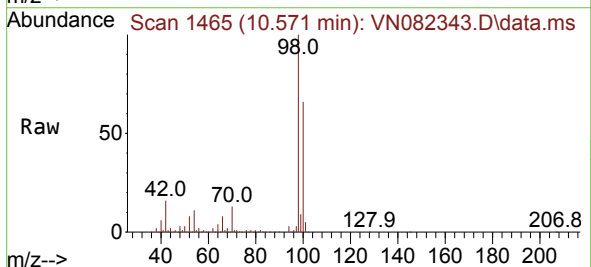


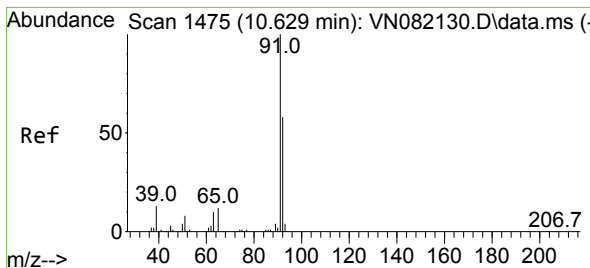
Tgt Ion: 43 Resp: 12954  
Ion Ratio Lower Upper  
43 100  
61 0.0 22.8 34.2#  
87 0.0 12.0 18.0#



#50  
Toluene-d8  
Concen: 52.769 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.000 min  
Lab File: VN082343.D  
Acq: 28 May 2024 13:41

Tgt Ion: 98 Resp: 488956  
Ion Ratio Lower Upper  
98 100  
100 65.3 51.8 77.6





#52

Toluene

Concen: 0.522 ug/l

RT: 10.630 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN082343.D

Acq: 28 May 2024 13:41

Instrument :

MSVOA\_N

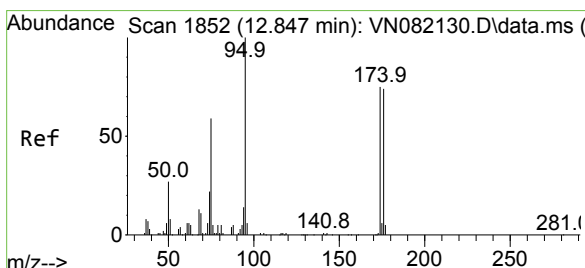
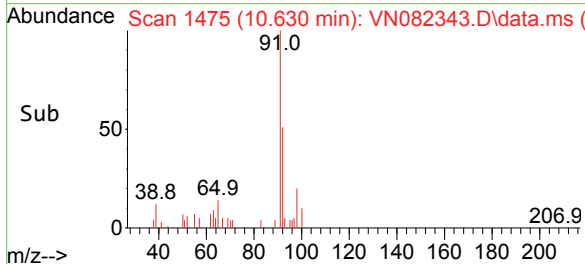
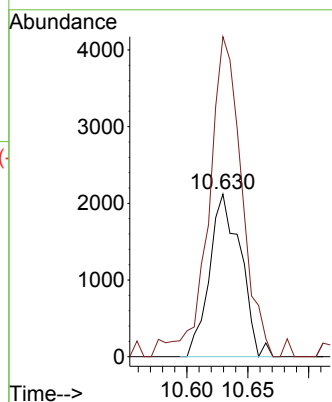
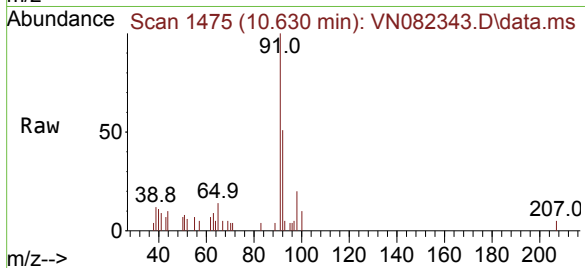
ClientSampleId :

Tgt Ion: 92 Resp: 3783

Ion Ratio Lower Upper

92 100

91 208.1 136.7 205.1#



#62

4-Bromofluorobenzene

Concen: 54.498 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN082343.D

Acq: 28 May 2024 13:41

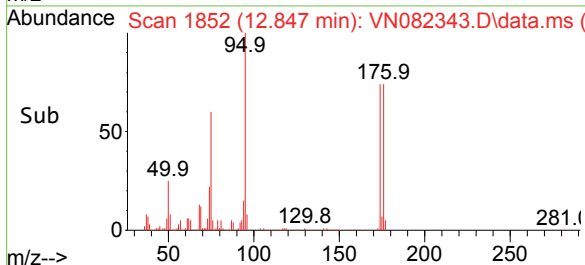
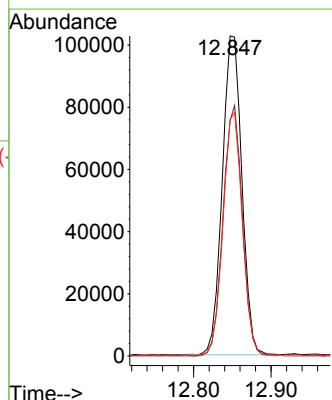
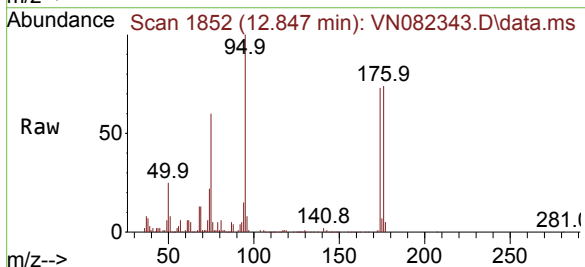
Tgt Ion: 95 Resp: 180240

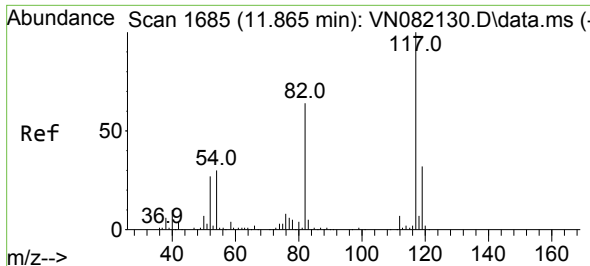
Ion Ratio Lower Upper

95 100

174 77.5 0.0 160.6

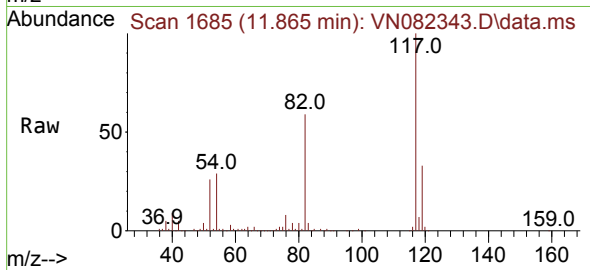
176 75.1 0.0 152.8



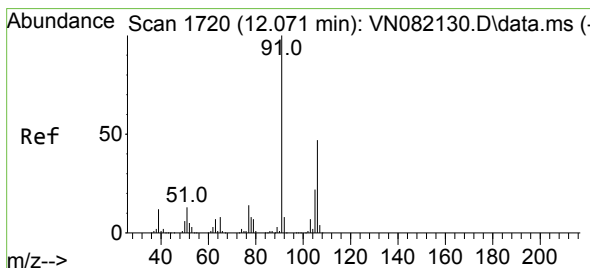
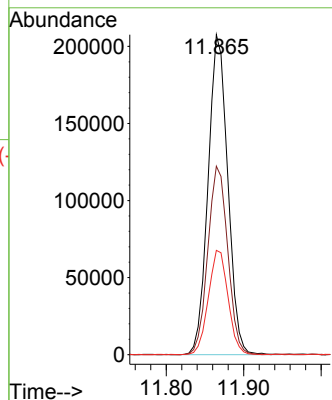
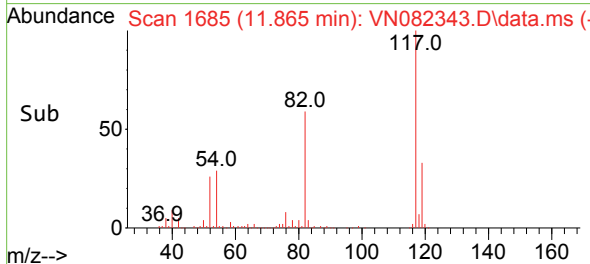


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN082343.D  
Acq: 28 May 2024 13:41

Instrument :  
MSVOA\_N  
ClientSampleId :

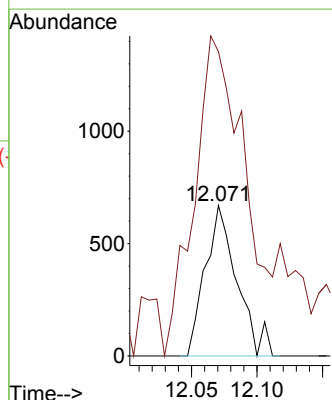
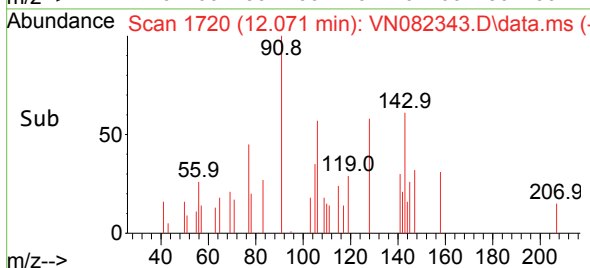
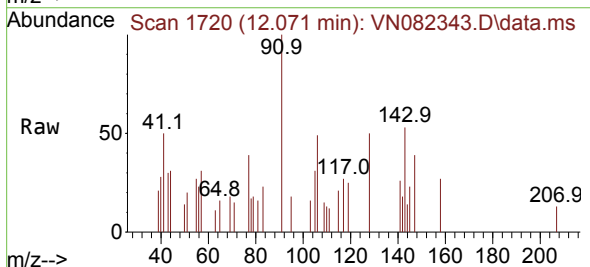


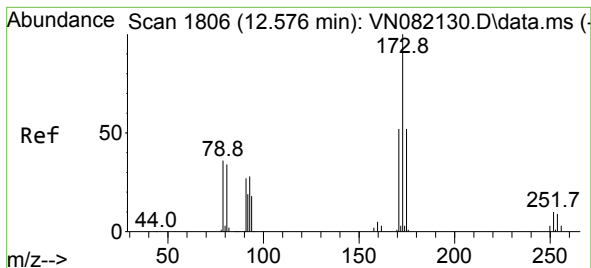
Tgt Ion:117 Resp: 365887  
Ion Ratio Lower Upper  
117 100  
82 58.9 44.6 66.8  
119 32.6 25.9 38.9



#68  
m/p-Xylenes  
Concen: 0.212 ug/l  
RT: 12.071 min Scan# 1720  
Delta R.T. 0.000 min  
Lab File: VN082343.D  
Acq: 28 May 2024 13:41

Tgt Ion:106 Resp: 1124  
Ion Ratio Lower Upper  
106 100  
91 339.3 159.4 239.0#





#71

Bromoform

Concen: 0.792 ug/l

RT: 12.571 min Scan# 1805

Delta R.T. -0.005 min

Lab File: VN082343.D

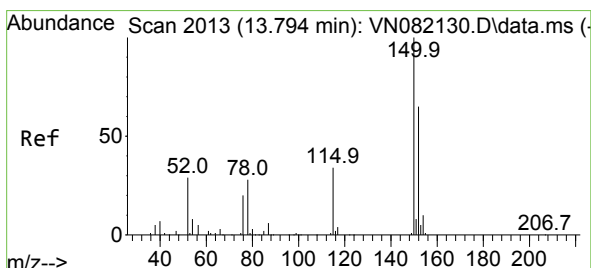
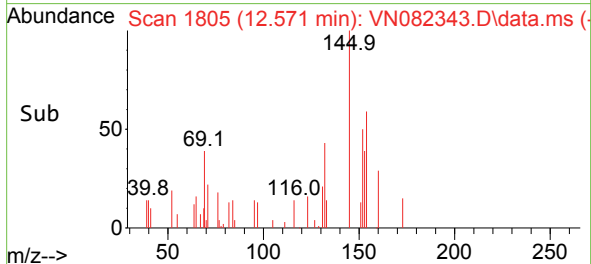
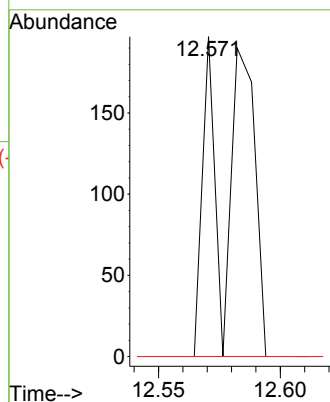
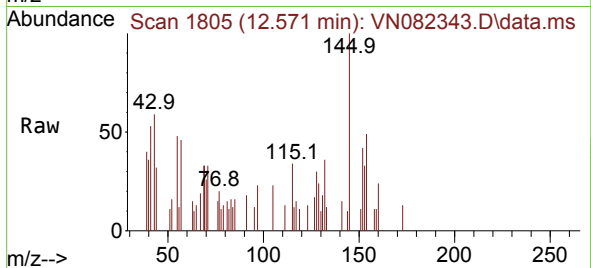
Acq: 28 May 2024 13:41

Instrument :

MSVOA\_N

ClientSampleId :

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:173 | Resp: | 196   |
| Ion Ratio   | Lower | Upper |
| 173         | 100   |       |
| 175         | 0.0   | 24.6  |
| 254         | 0.0   | 0.0   |



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

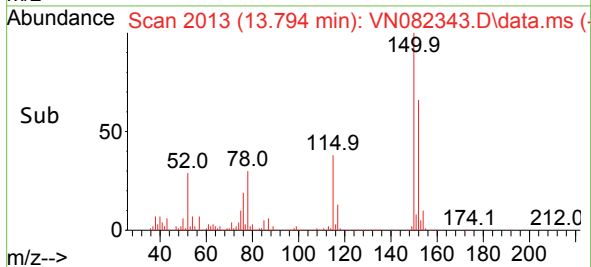
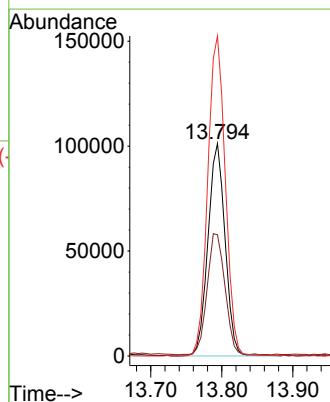
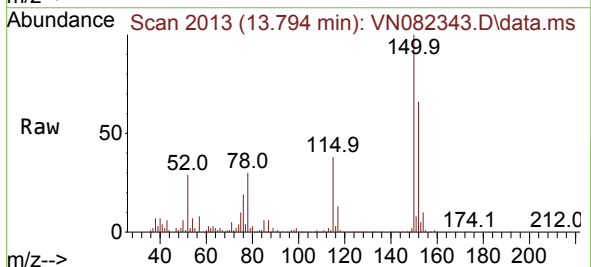
RT: 13.794 min Scan# 2013

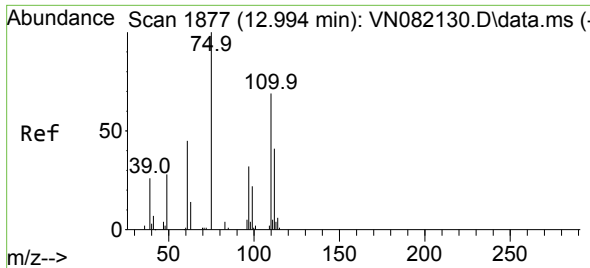
Delta R.T. 0.000 min

Lab File: VN082343.D

Acq: 28 May 2024 13:41

|             |       |        |
|-------------|-------|--------|
| Tgt Ion:152 | Resp: | 169949 |
| Ion Ratio   | Lower | Upper  |
| 152         | 100   |        |
| 115         | 59.1  | 30.4   |
| 150         | 154.1 | 0.0    |

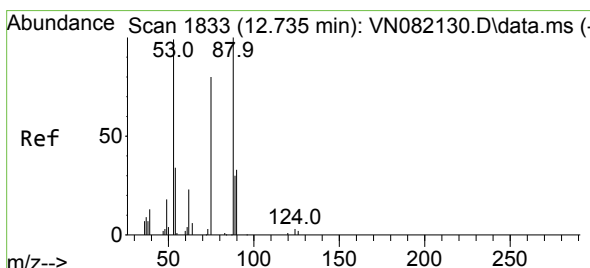
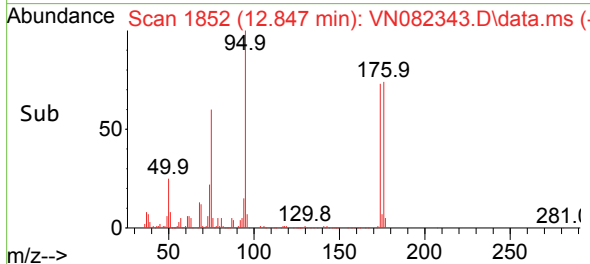
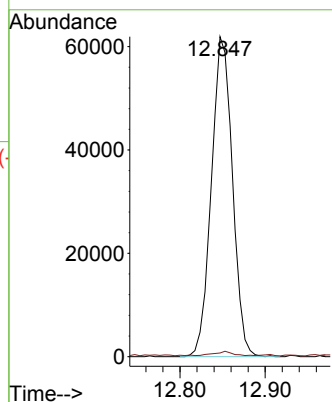
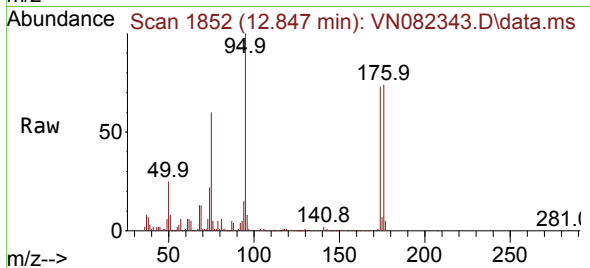




#76  
1,2,3-Trichloropropane  
Concen: 29.689 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN082343.D  
Acq: 28 May 2024 13:41

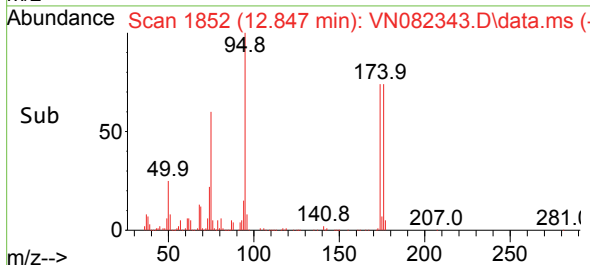
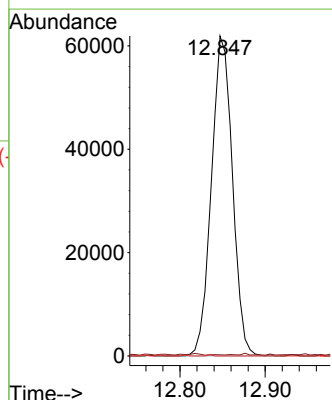
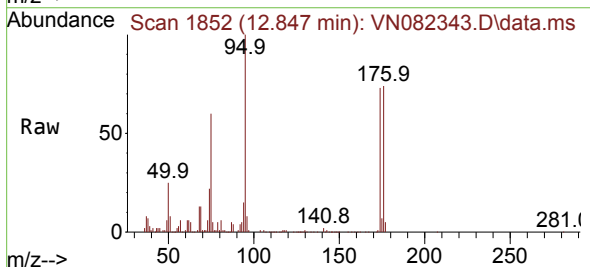
Instrument :  
MSVOA\_N  
ClientSampleId :

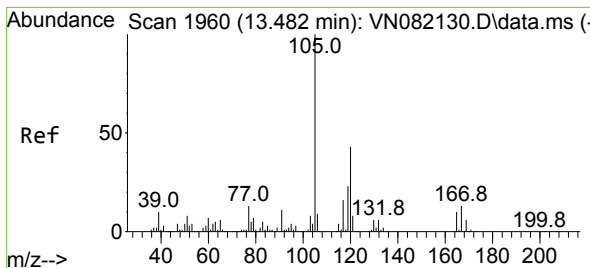
Tgt Ion: 75 Resp: 106198  
Ion Ratio Lower Upper  
75 100  
77 1.1 90.5 271.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 69.441 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN082343.D  
Acq: 28 May 2024 13:41

Tgt Ion: 75 Resp: 106198  
Ion Ratio Lower Upper  
75 100  
53 0.0 72.9 109.3#  
89 0.1 39.1 58.7#





#84

1,2,4-Trimethylbenzene

Concen: 0.205 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.006 min

Lab File: VN082343.D

Acq: 28 May 2024 13:41

Instrument :

MSVOA\_N

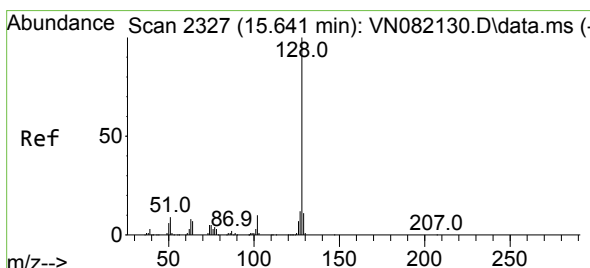
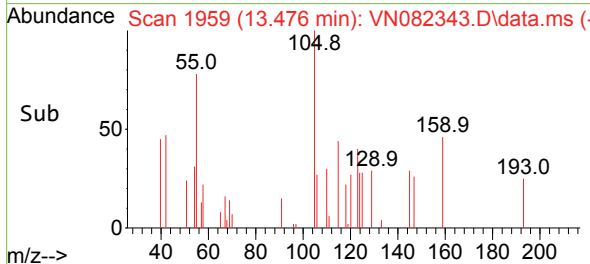
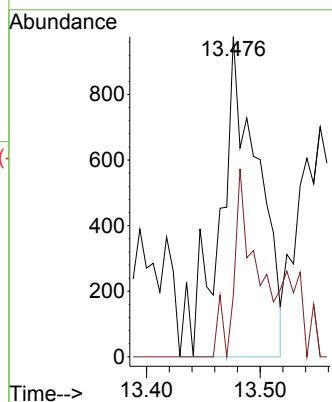
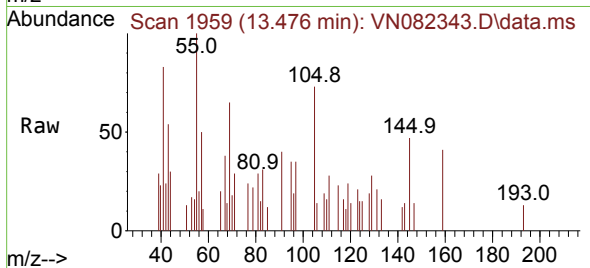
ClientSampleId :

Tgt Ion:105 Resp: 2286

Ion Ratio Lower Upper

105 100

120 34.1 22.9 68.7



#95

Naphthalene

Concen: 0.803 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.000 min

Lab File: VN082343.D

Acq: 28 May 2024 13:41

Tgt Ion:128 Resp: 7787

Ion Ratio Lower Upper

128 100

127 26.3 10.1 15.1#

129 27.6 8.9 13.3#

