

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110824\  
 Data File : VN084751.D  
 Acq On : 08 Nov 2024 15:44  
 Operator : JC\MD  
 Sample : P4774-06  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB-190-GW-638-640

Quant Time: Nov 08 22:32:29 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N103024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 31 18:45:38 2024  
 Response via : Initial Calibration

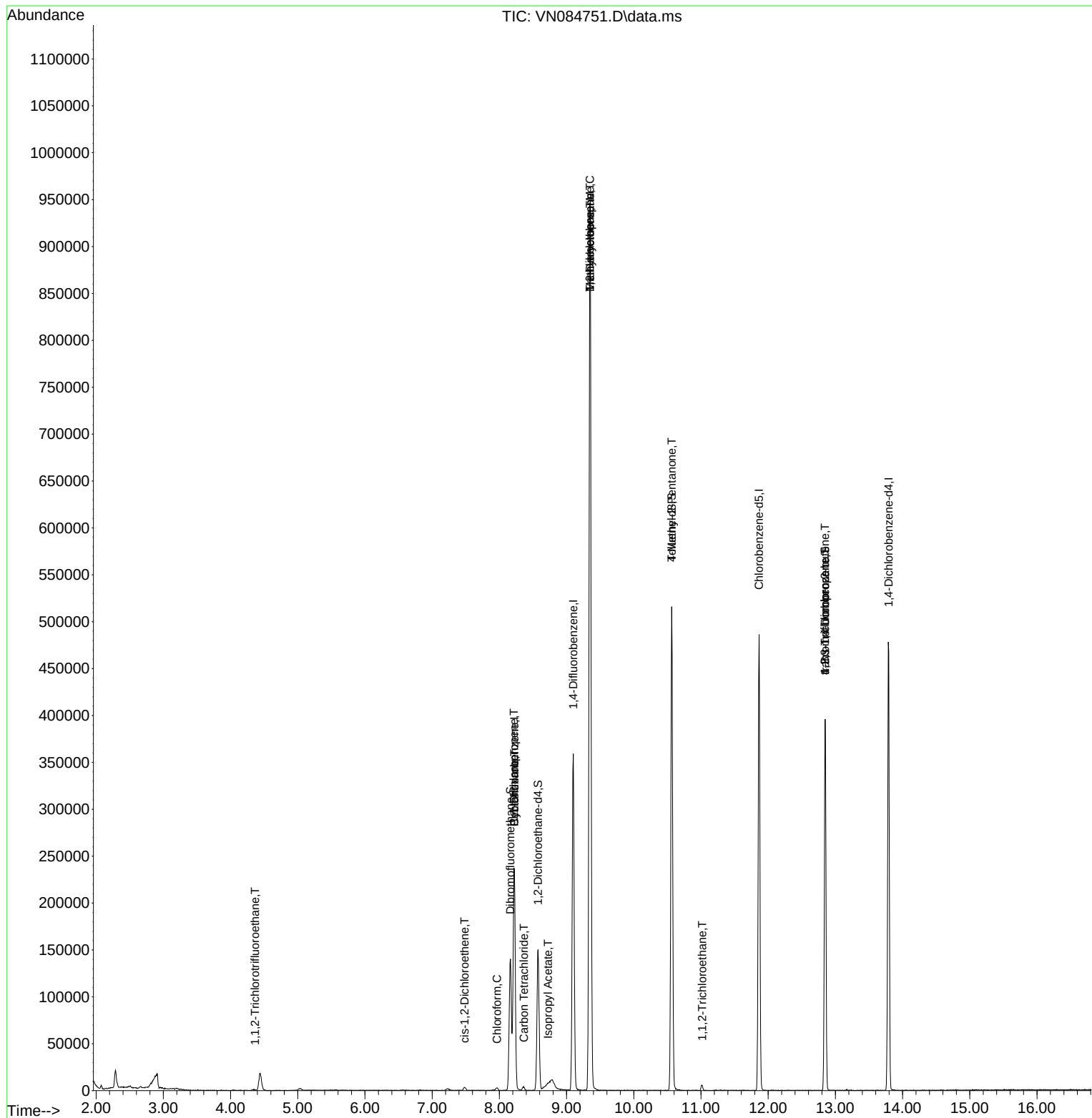
| Compound                      | R.T.           | QIon | Response   | Conc         | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|--------------|--------|----------|
| -----                         |                |      |            |              |        |          |
| Internal Standards            |                |      |            |              |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 176262     | 50.000       | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100          | 114  | 311946     | 50.000       | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 280107     | 50.000       | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 129789     | 50.000       | ug/l   | 0.00     |
|                               |                |      |            |              |        |          |
| System Monitoring Compounds   |                |      |            |              |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.576          | 65   | 124577     | 48.934       | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 97.860%      |        |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 102161     | 48.383       | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 96.760%      |        |          |
| 50) Toluene-d8                | 10.565         | 98   | 360363     | 46.331       | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 92.660%      |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 138694     | 47.712       | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = | 95.420%      |        |          |
|                               |                |      |            |              |        |          |
| Target Compounds              |                |      |            |              |        |          |
|                               |                |      |            |              | Qvalue |          |
| 3) Chloromethane              | 2.365          | 50   | 667        | Below Cal    | #      | 41       |
| 6) Chloroethane               | 3.142          | 64   | 496        | Below Cal    | #      | 45       |
| 9) 1,1,2-Trichlorotrifluo...  | 4.365          | 101  | 671        | 0.331 ug/l   | #      | 49       |
| 16) Acetone                   | 4.436          | 43   | 1197       | Below Cal    | #      | 44       |
| 18) Methyl Acetate            | 5.024          | 43   | 2570       | Below Cal    | #      | 86       |
| 27) cis-1,2-Dichloroethene    | 7.482          | 96   | 1841       | 0.765 ug/l   |        | 95       |
| 30) Chloroform                | 7.965          | 83   | 3167       | 0.801 ug/l   |        | 99       |
| 31) Cyclohexane               | 8.224          | 56   | 3797       | 1.080 ug/l   | #      | 17       |
| 36) 1,1-Dichloropropene       | 8.218          | 75   | 14564      | 4.973 ug/l   | #      | 50       |
| 38) Carbon Tetrachloride      | 8.365          | 117  | 2794       | 0.854 ug/l   | #      | 81       |
| 39) Methylcyclohexane         | 9.347          | 83   | 4396       | 1.476 ug/l   | #      | 1        |
| 43) Isopropyl Acetate         | 8.724          | 43   | 10112      | 1.116 ug/l   | #      | 56       |
| 44) Trichloroethene           | 9.347          | 130  | 354834     | 163.602 ug/l |        | 98       |
| 45) 1,2-Dichloropropane       | 9.347          | 63   | 1125       | 0.510 ug/l   | #      | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.565         | 43   | 1591       | 0.628 ug/l   | #      | 1        |
| 55) 1,1,2-Trichloroethane     | 11.018         | 97   | 2221       | 1.072 ug/l   |        | 96       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 71289      | 27.478 ug/l  | #      | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 71289      | 65.188 ug/l  | #      | 11       |
| 88) 1,4-Dichlorobenzene       | 13.806         | 146  | 126        | Below Cal    | #      | 1        |
| -----                         |                |      |            |              |        |          |

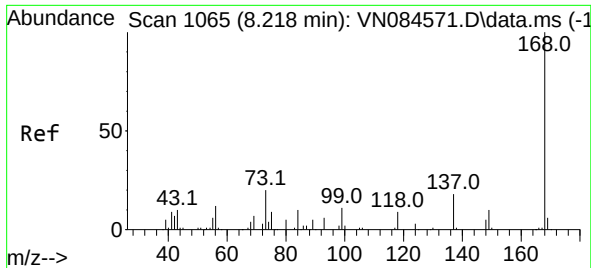
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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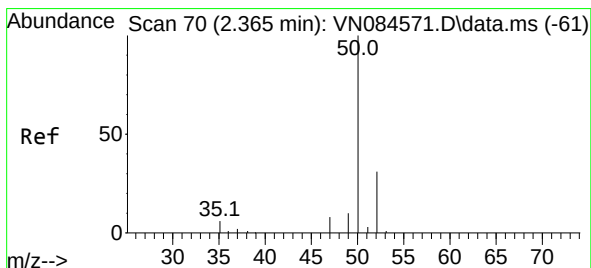
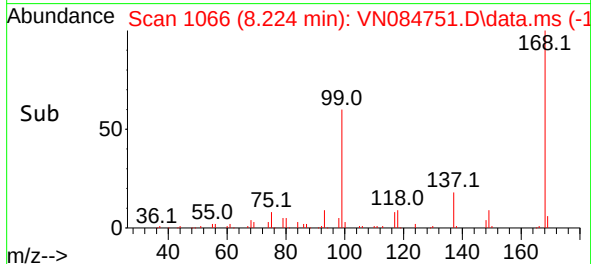
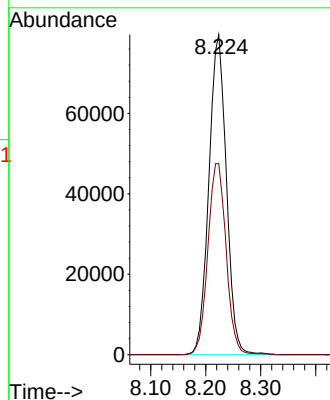
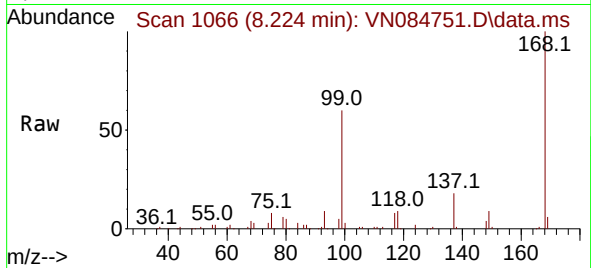




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

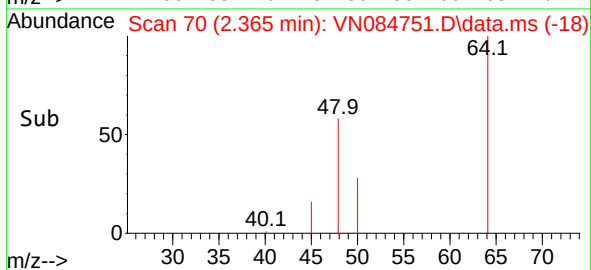
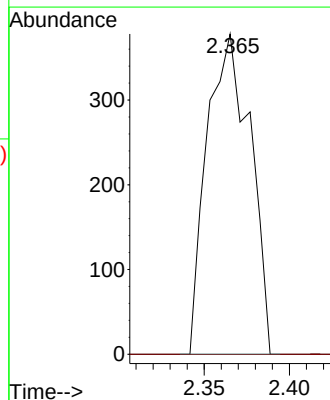
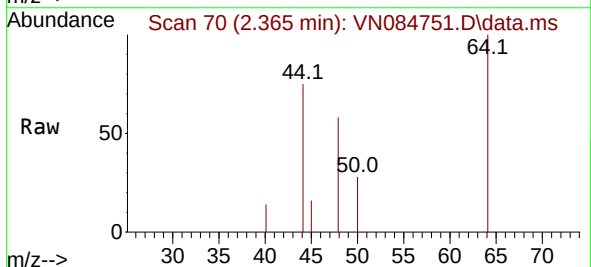
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-190-GW-638-640

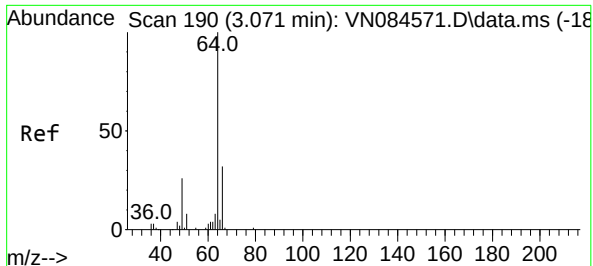
Tgt Ion:168 Resp: 176262  
Ion Ratio Lower Upper  
168 100  
99 59.7 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

Tgt Ion: 50 Resp: 667  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.8 40.2#

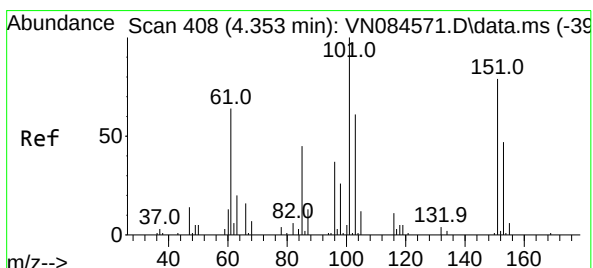
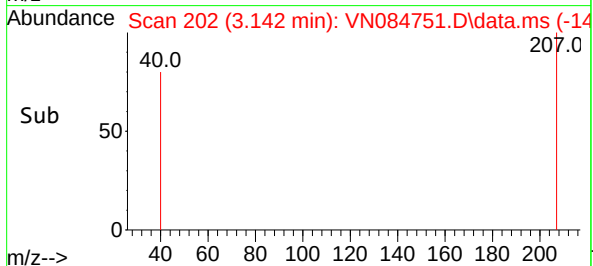
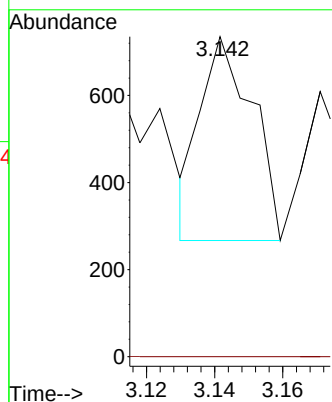
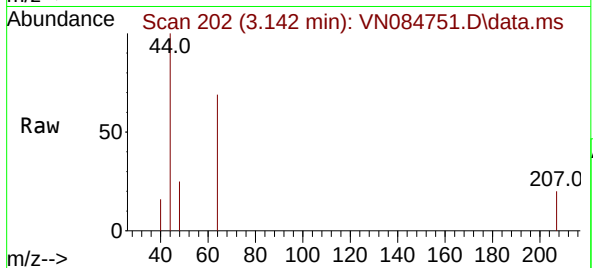




#6  
Chloroethane  
Concen: Below Cal  
RT: 3.142 min Scan# 207  
Delta R.T. 0.024 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

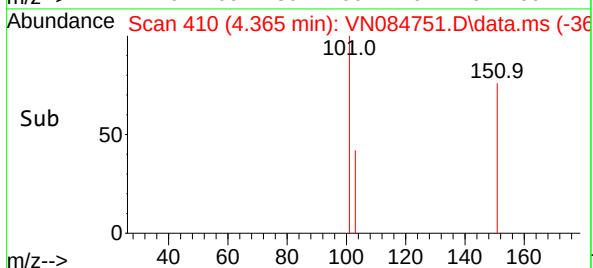
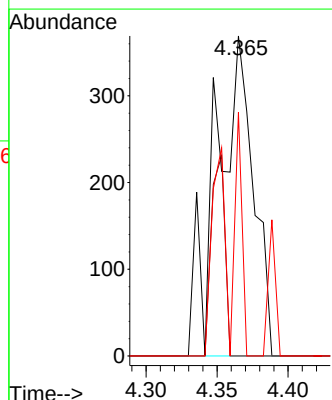
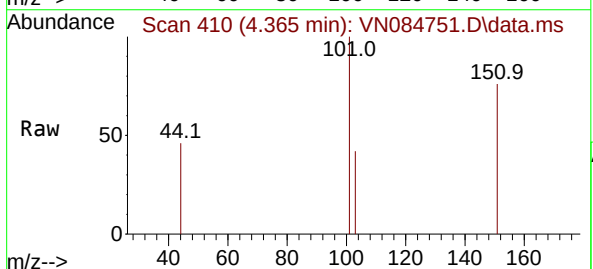
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-190-GW-638-640

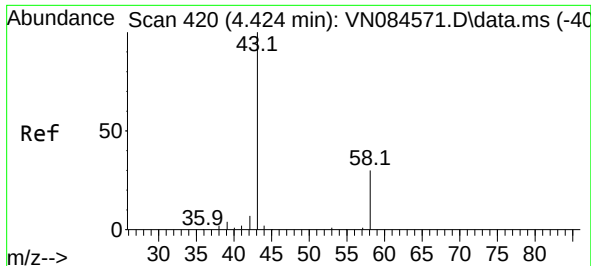
Tgt Ion: 64 Resp: 496  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.5 35.3#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.331 ug/l  
RT: 4.365 min Scan# 410  
Delta R.T. -0.006 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

Tgt Ion: 101 Resp: 671  
Ion Ratio Lower Upper  
101 100  
85 22.5 36.2 54.4#  
151 22.8 59.3 88.9#





#16

Acetone

Concen: Below Cal

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN084751.D

Acq: 08 Nov 2024 15:44

Instrument :

MSVOA\_N

ClientSampleId :

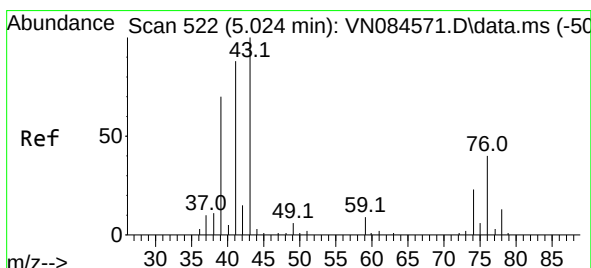
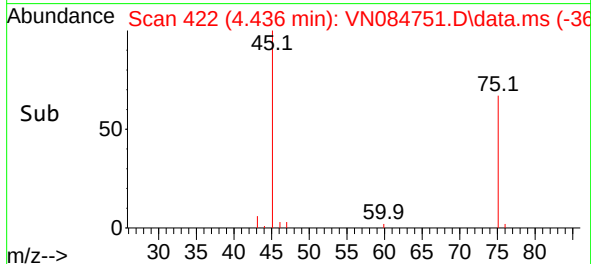
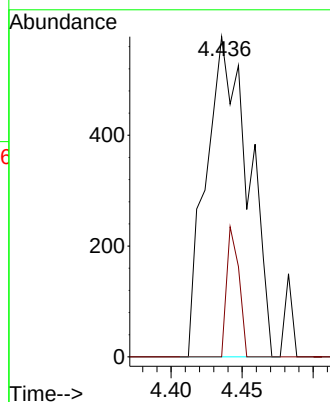
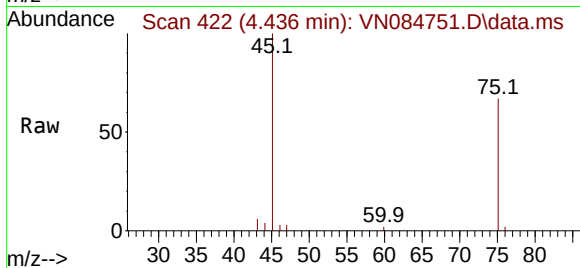
BP-VPB-190-GW-638-640

Tgt Ion: 43 Resp: 1197

Ion Ratio Lower Upper

43 100

58 0.0 24.4 36.6#



#18

Methyl Acetate

Concen: Below Cal

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN084751.D

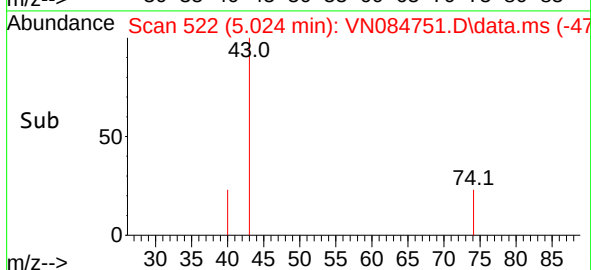
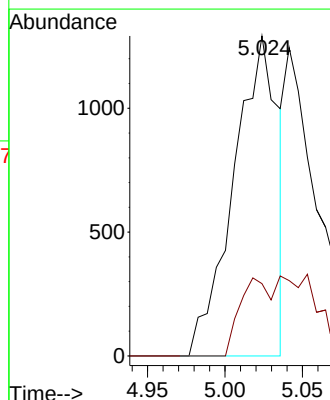
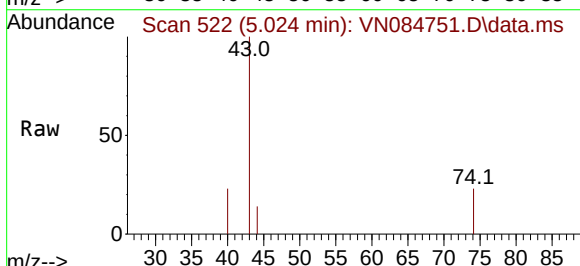
Acq: 08 Nov 2024 15:44

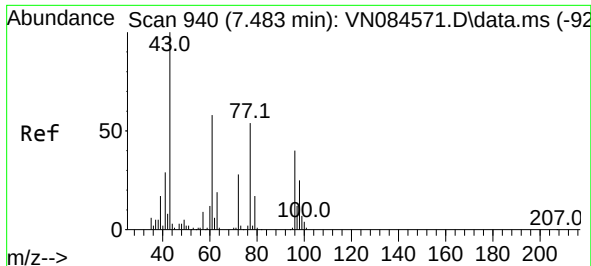
Tgt Ion: 43 Resp: 2570

Ion Ratio Lower Upper

43 100

74 16.8 19.2 28.8#



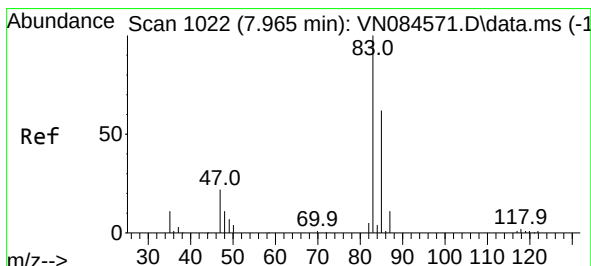
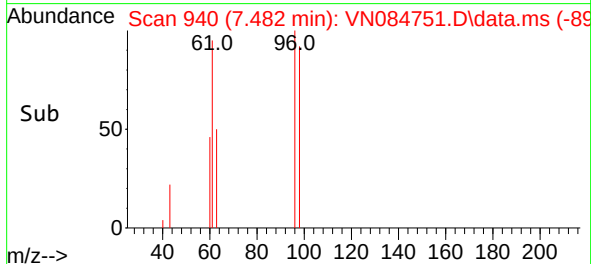
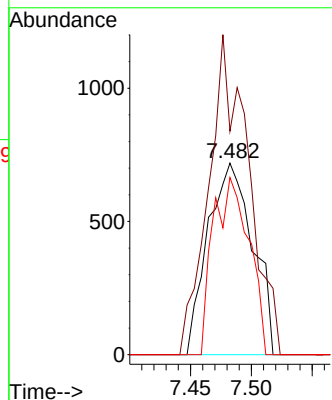
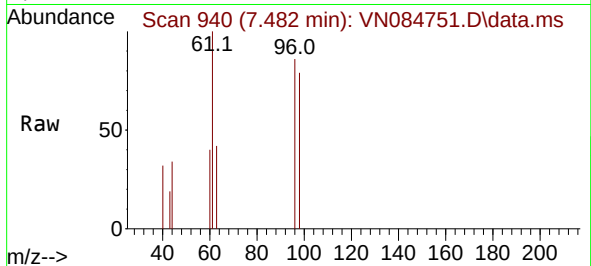


#27  
 cis-1,2-Dichloroethene  
 Concen: 0.765 ug/l  
 RT: 7.482 min Scan# 940  
 Delta R.T. -0.006 min  
 Lab File: VN084751.D  
 Acq: 08 Nov 2024 15:44

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB-190-GW-638-640

Tgt Ion: 96 Resp: 1841  

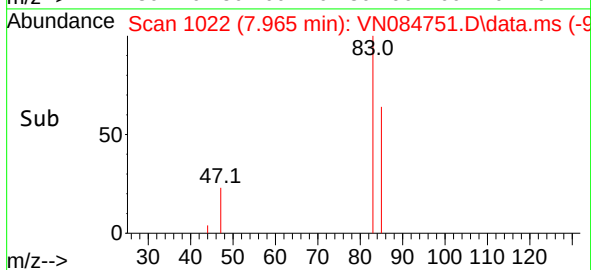
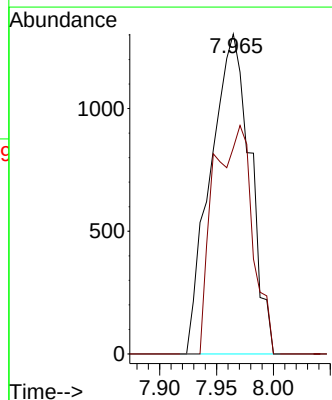
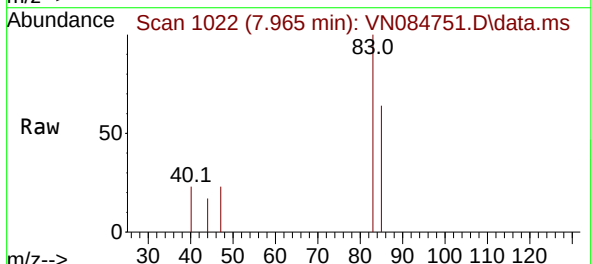
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 148.3 | 0.0   | 301.8 |
| 98  | 74.0  | 0.0   | 128.2 |

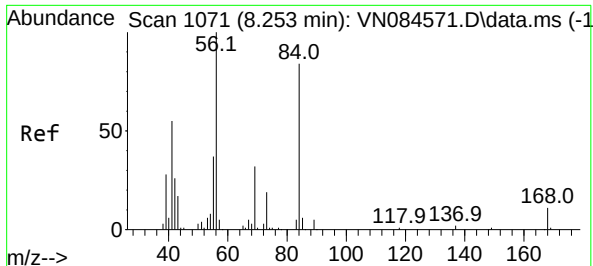


#30  
 Chloroform  
 Concen: 0.801 ug/l  
 RT: 7.965 min Scan# 1022  
 Delta R.T. -0.000 min  
 Lab File: VN084751.D  
 Acq: 08 Nov 2024 15:44

Tgt Ion: 83 Resp: 3167  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 64.4  | 51.0  | 76.4  |

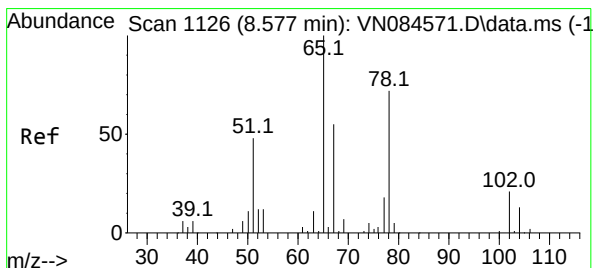
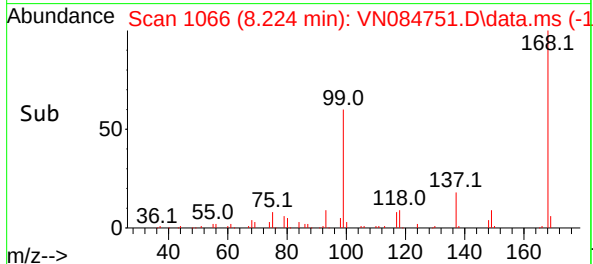
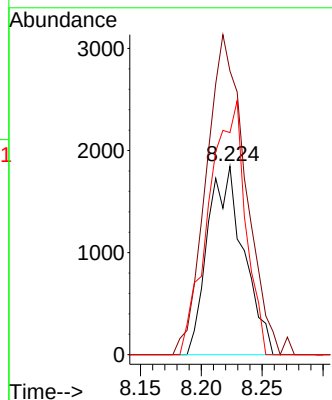
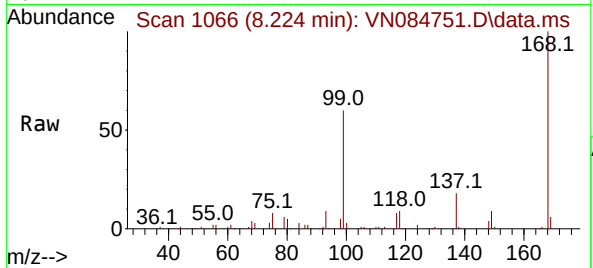




#31  
Cyclohexane  
Concen: 1.080 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.029 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

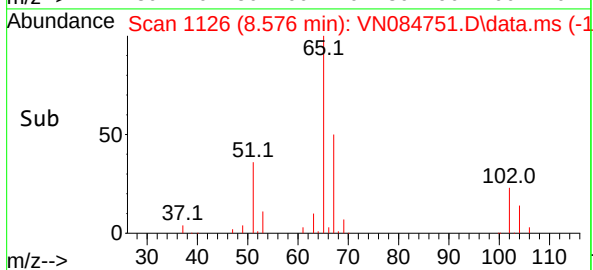
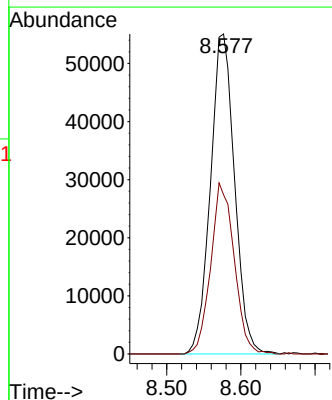
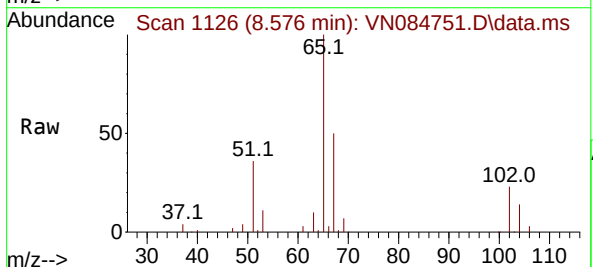
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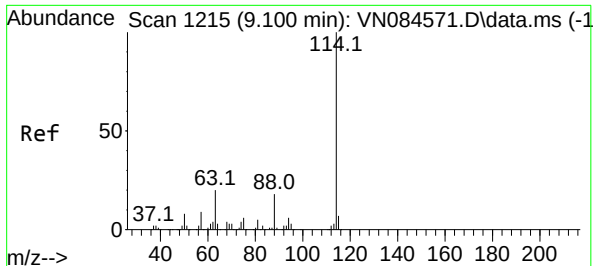
Tgt Ion: 56 Resp: 3797  
Ion Ratio Lower Upper  
56 100  
69 150.6 23.8 35.6#  
84 117.9 68.8 103.2#



#33  
1,2-Dichloroethane-d4  
Concen: 48.934 ug/l  
RT: 8.576 min Scan# 1126  
Delta R.T. -0.001 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

Tgt Ion: 65 Resp: 124577  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN084751.D

Acq: 08 Nov 2024 15:44

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB-190-GW-638-640

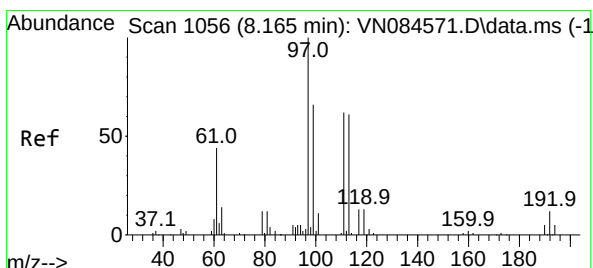
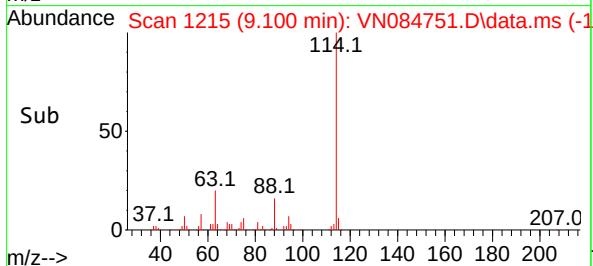
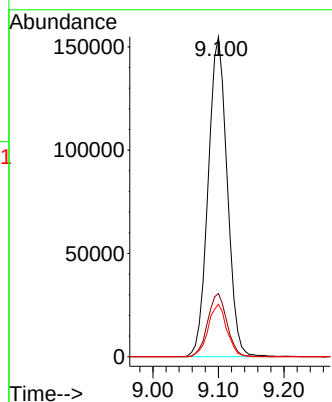
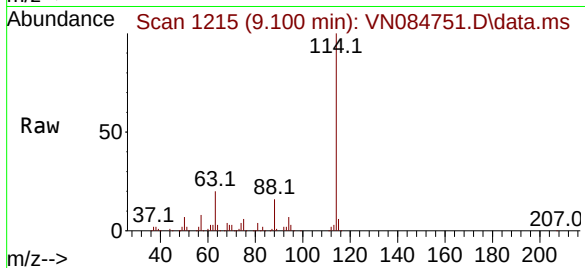
Tgt Ion:114 Resp: 311946

Ion Ratio Lower Upper

114 100

63 19.7 0.0 43.8

88 16.4 0.0 31.6



#35

Dibromofluoromethane

Concen: 48.383 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084751.D

Acq: 08 Nov 2024 15:44

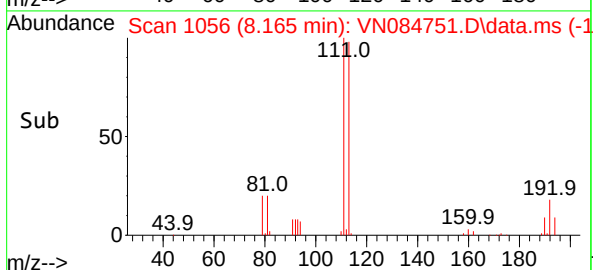
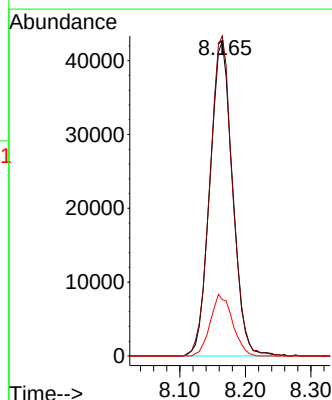
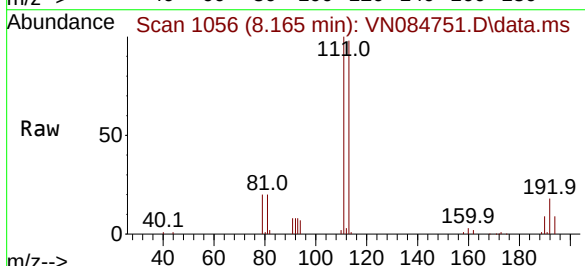
Tgt Ion:113 Resp: 102161

Ion Ratio Lower Upper

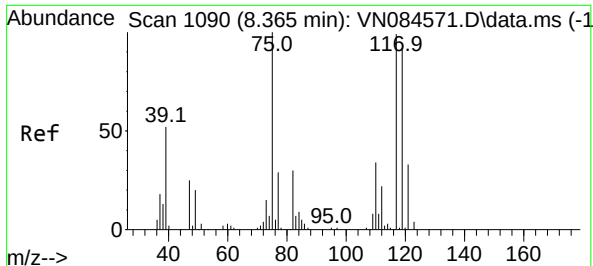
113 100

111 101.4 83.3 124.9

192 19.1 13.5 20.3







#36

1,1-Dichloropropene

Concen: 4.973 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

Lab File: VN084751.D

Acq: 08 Nov 2024 15:44

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB-190-GW-638-640

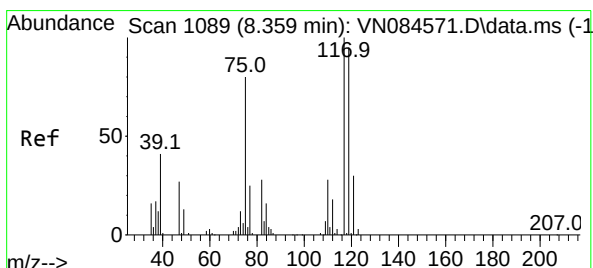
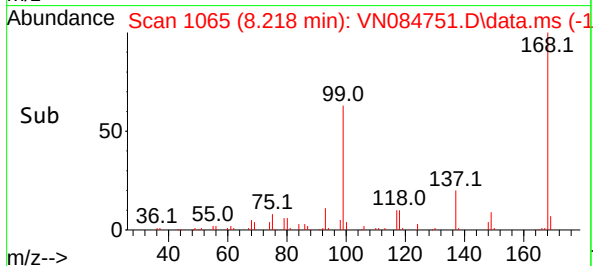
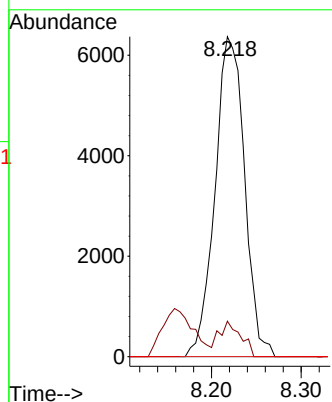
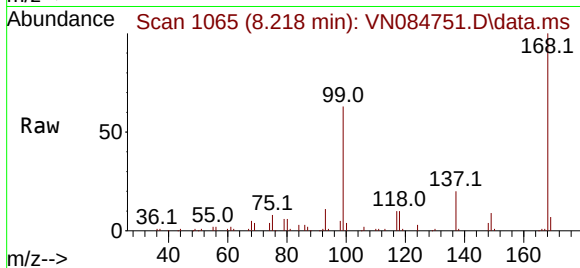
Tgt Ion: 75 Resp: 14564

Ion Ratio Lower Upper

75 100

110 8.1 16.9 50.7#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 0.854 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.006 min

Lab File: VN084751.D

Acq: 08 Nov 2024 15:44

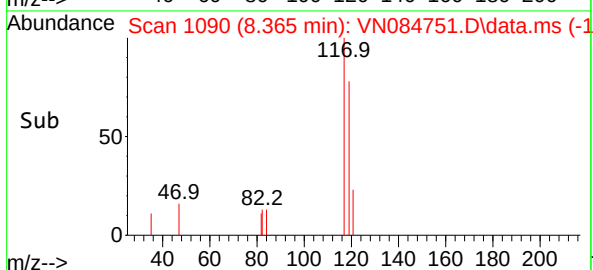
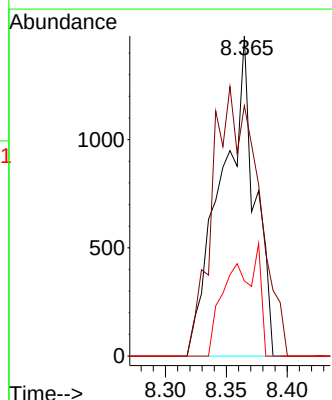
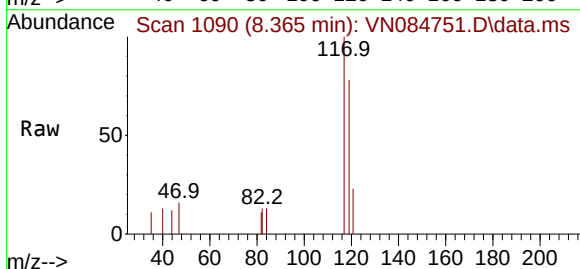
Tgt Ion: 117 Resp: 2794

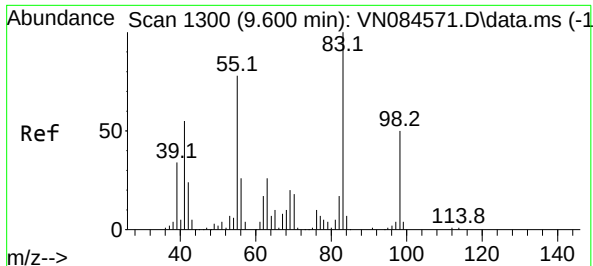
Ion Ratio Lower Upper

117 100

119 78.2 78.7 118.1#

121 23.5 24.4 36.6#





#39

Methylcyclohexane

Concen: 1.476 ug/l

RT: 9.347 min Scan# 1151

Delta R.T. -0.253 min

Lab File: VN084751.D

Acq: 08 Nov 2024 15:44

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB-190-GW-638-640

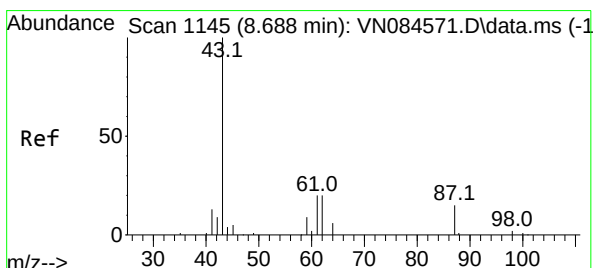
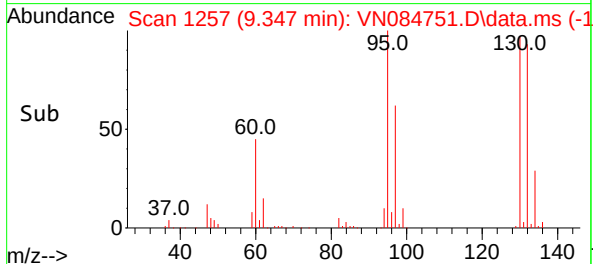
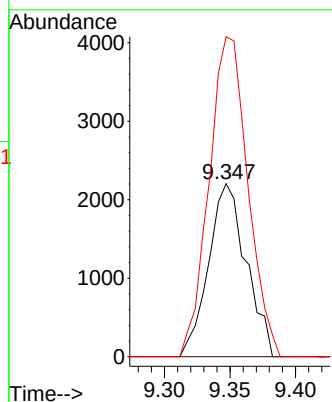
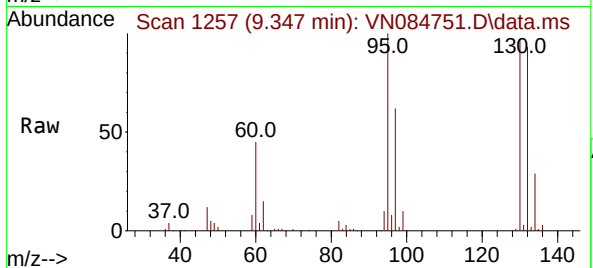
Tgt Ion: 83 Resp: 4396

Ion Ratio Lower Upper

83 100

55 0.0 62.8 94.2#

98 184.9 38.8 58.2#



#43

Isopropyl Acetate

Concen: 1.116 ug/l

RT: 8.724 min Scan# 1151

Delta R.T. 0.036 min

Lab File: VN084751.D

Acq: 08 Nov 2024 15:44

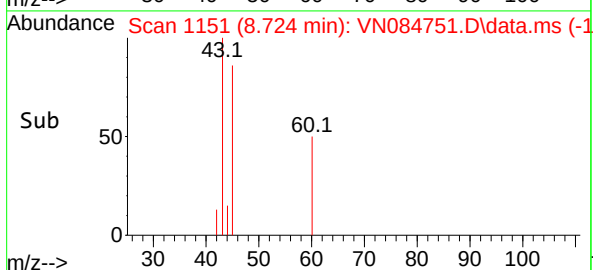
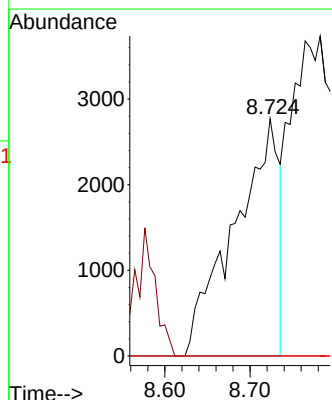
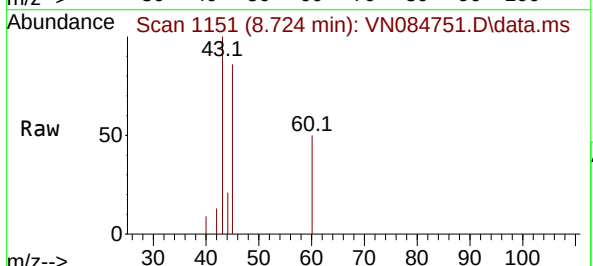
Tgt Ion: 43 Resp: 10112

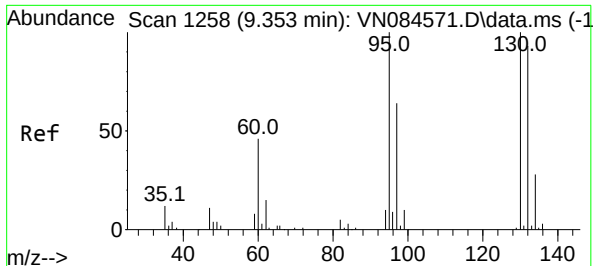
Ion Ratio Lower Upper

43 100

61 0.0 20.4 30.6#

87 0.0 10.3 15.5#

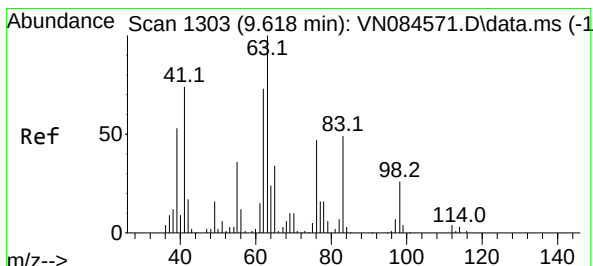
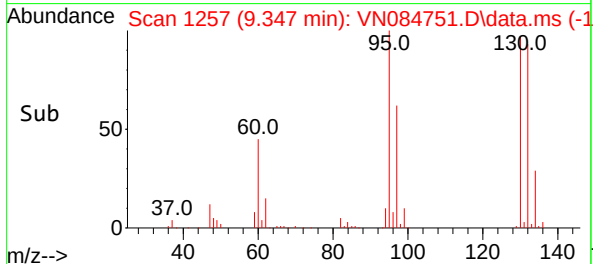
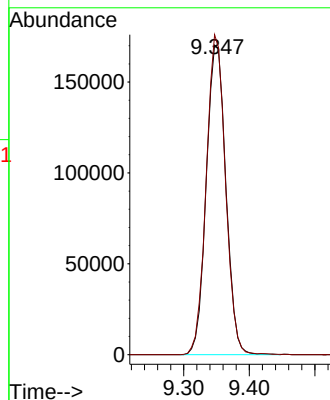
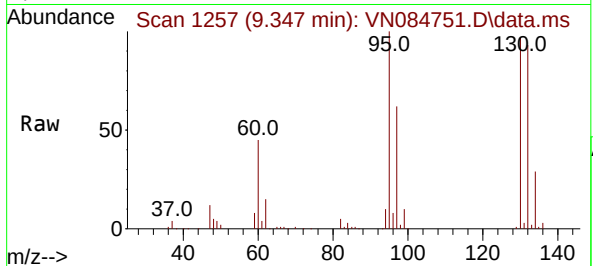




#44  
Trichloroethene  
Concen: 163.602 ug/l  
RT: 9.347 min Scan# 1257  
Delta R.T. 0.000 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

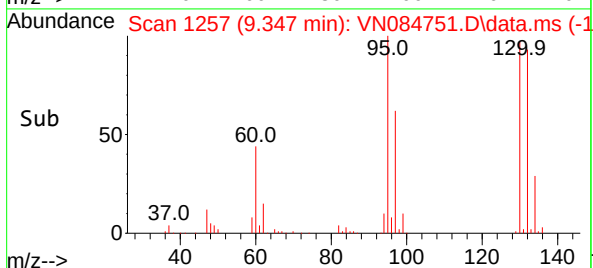
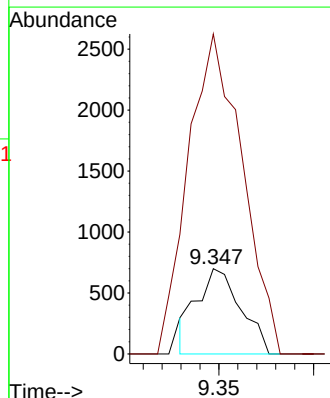
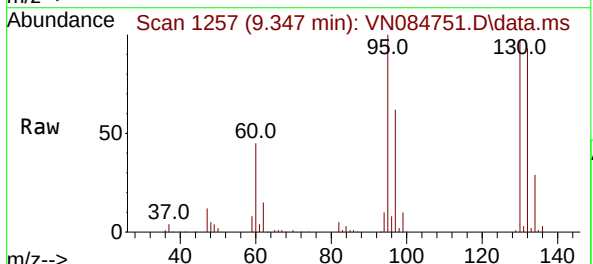
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-190-GW-638-640

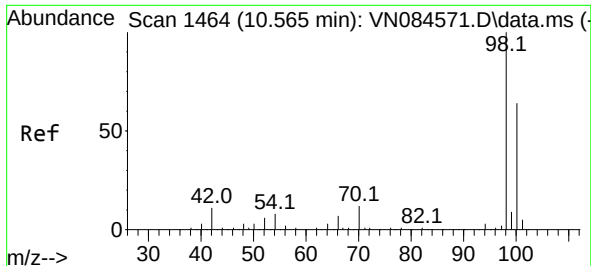
Tgt Ion:130 Resp: 354834  
Ion Ratio Lower Upper  
130 100  
95 103.3 0.0 203.0



#45  
1,2-Dichloropropane  
Concen: 0.510 ug/l  
RT: 9.347 min Scan# 1257  
Delta R.T. -0.271 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

Tgt Ion: 63 Resp: 1125  
Ion Ratio Lower Upper  
63 100  
65 375.5 24.6 37.0#

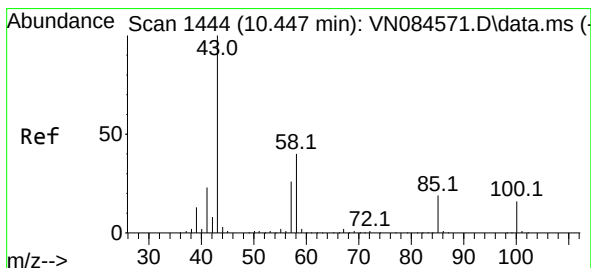
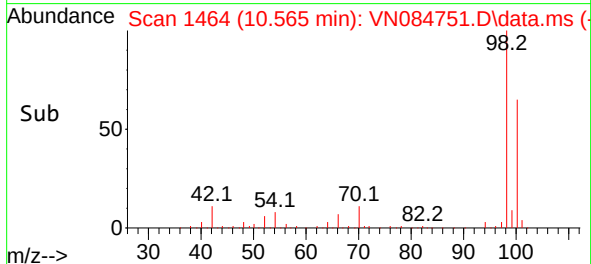
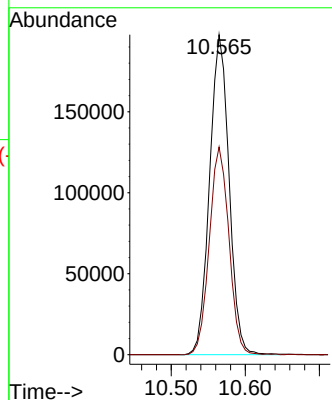
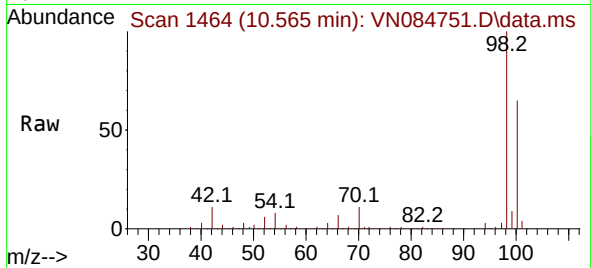




#50  
Toluene-d8  
Concen: 46.331 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

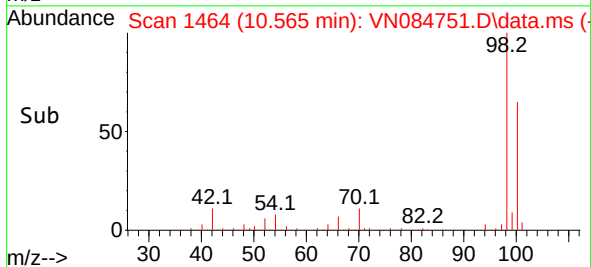
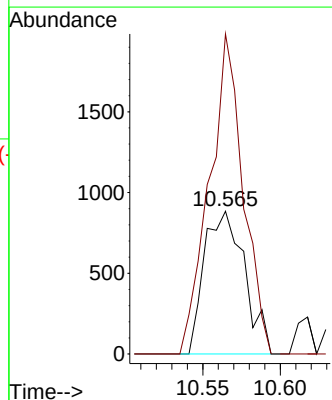
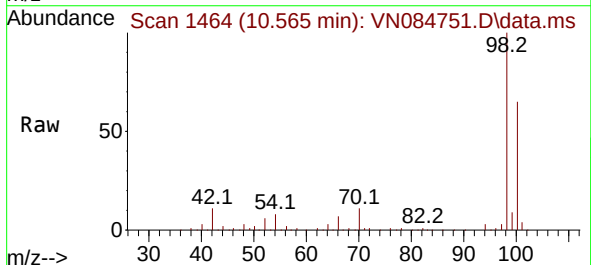
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-190-GW-638-640

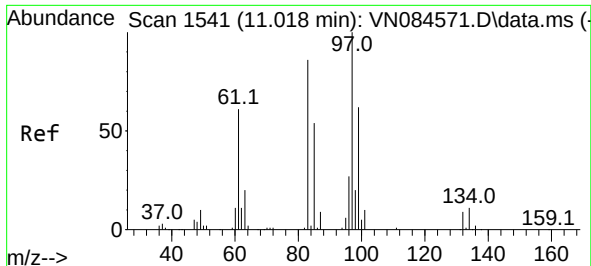
Tgt Ion: 98 Resp: 360363  
Ion Ratio Lower Upper  
98 100  
100 65.4 52.7 79.1



#51  
4-Methyl-2-Pentanone  
Concen: 0.628 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.123 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

Tgt Ion: 43 Resp: 1591  
Ion Ratio Lower Upper  
43 100  
58 189.0 31.6 47.4#

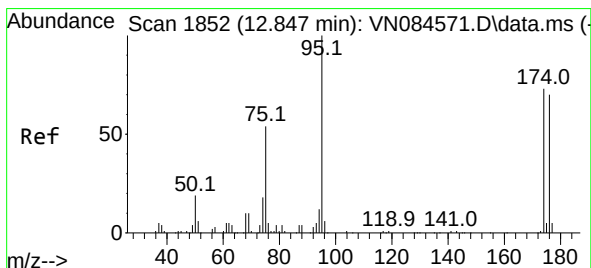
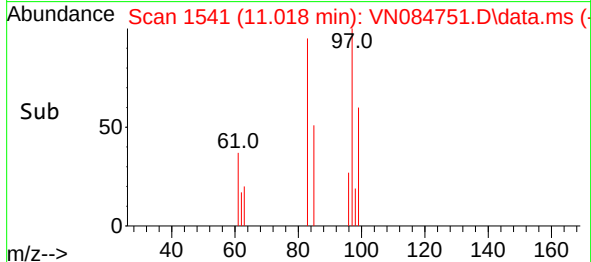
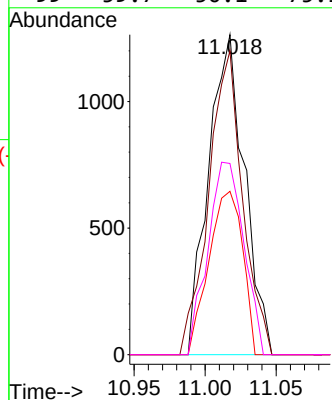
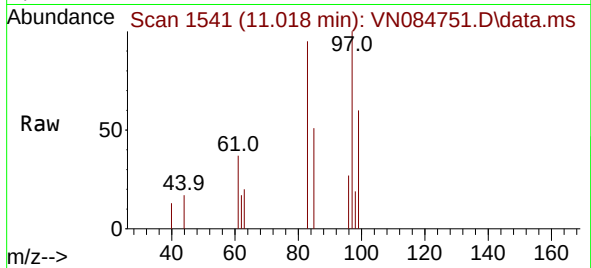




#55  
1,1,2-Trichloroethane  
Concen: 1.072 ug/l  
RT: 11.018 min Scan# 1541  
Delta R.T. 0.006 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

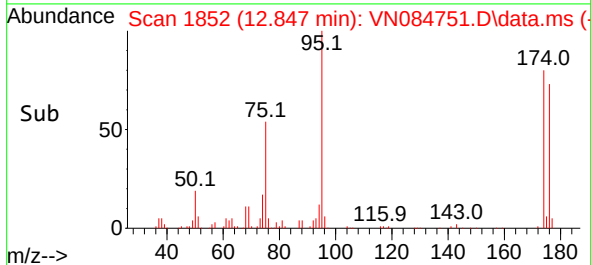
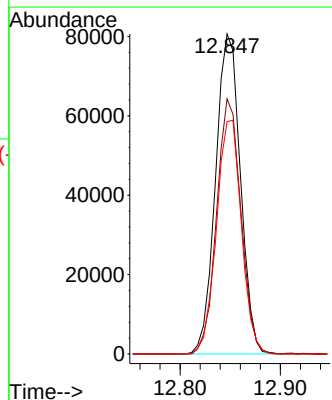
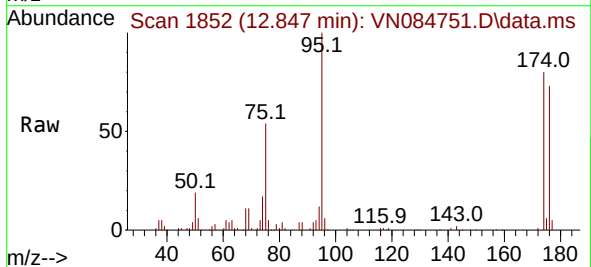
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-190-GW-638-640

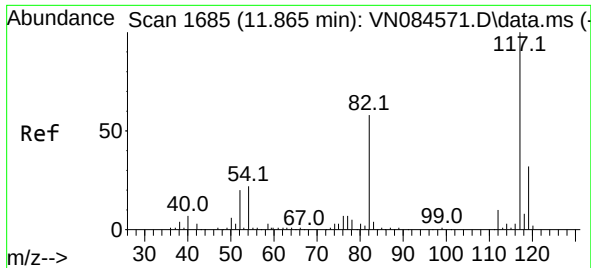
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 2221  |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 83 95.0     | 71.0 106.4  |
| 85 51.0     | 41.7 62.5   |
| 99 59.7     | 50.1 75.1   |



#62  
4-Bromofluorobenzene  
Concen: 47.712 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

|             |              |
|-------------|--------------|
| Tgt Ion: 95 | Resp: 138694 |
| Ion Ratio   | Lower Upper  |
| 95 100      |              |
| 174 77.9    | 0.0 145.2    |
| 176 73.4    | 0.0 140.0    |

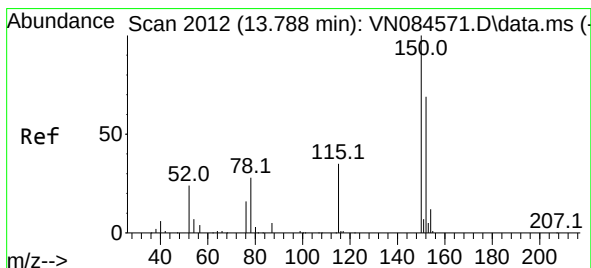
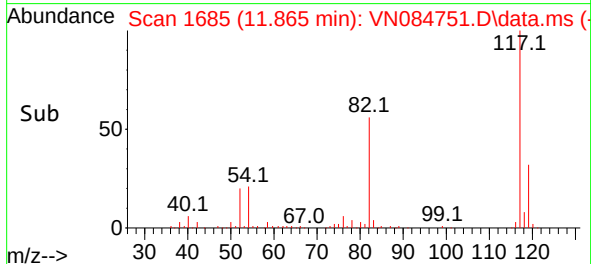
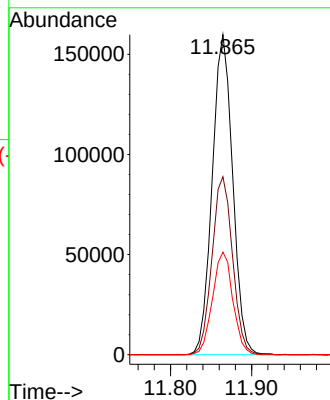
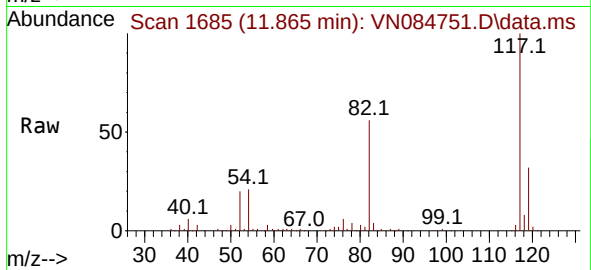




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

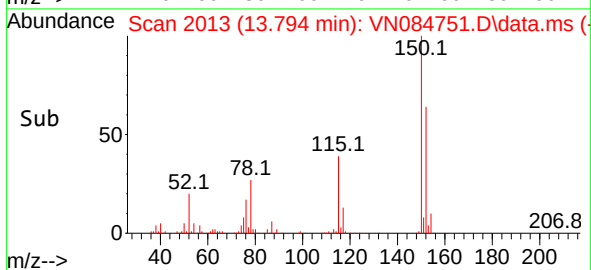
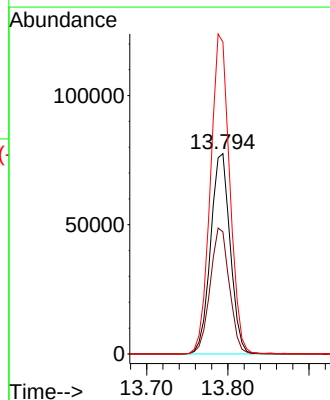
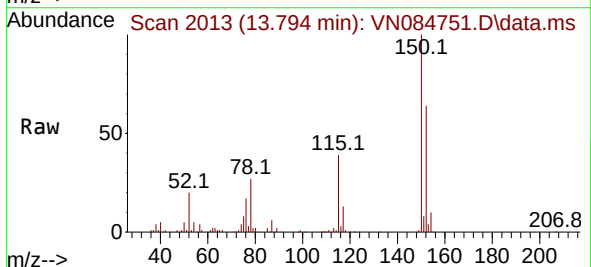
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-190-GW-638-640

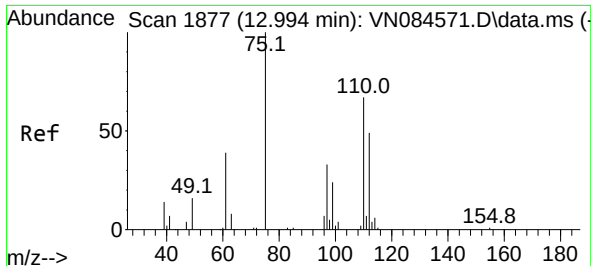
Tgt Ion:117 Resp: 280107  
Ion Ratio Lower Upper  
117 100  
82 55.6 47.2 70.8  
119 32.1 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 2013  
Delta R.T. 0.006 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

Tgt Ion:152 Resp: 129789  
Ion Ratio Lower Upper  
152 100  
115 61.9 31.3 93.9  
150 157.4 0.0 349.8

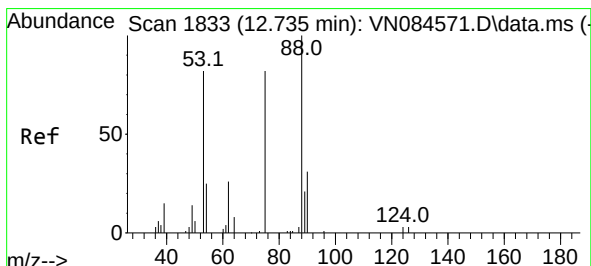
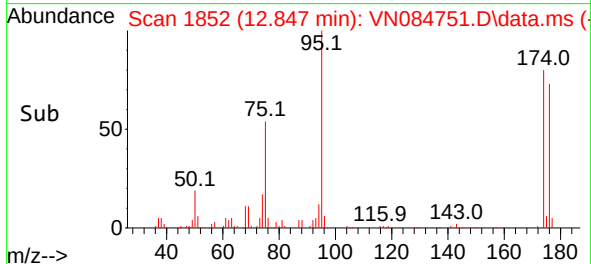
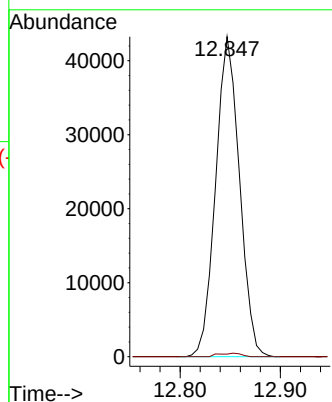
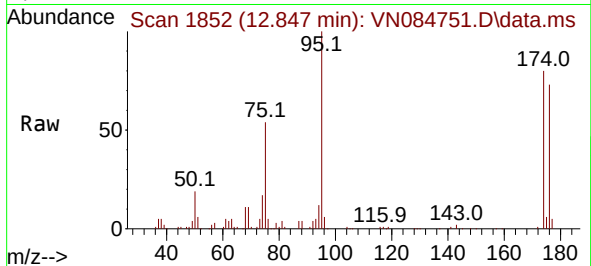




#76  
1,2,3-Trichloropropane  
Concen: 27.478 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.141 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

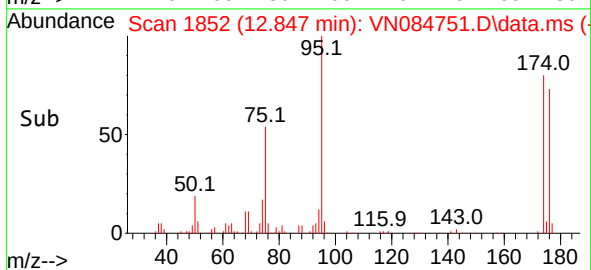
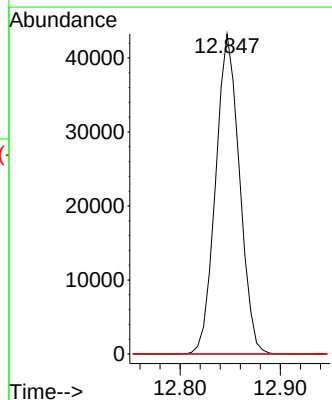
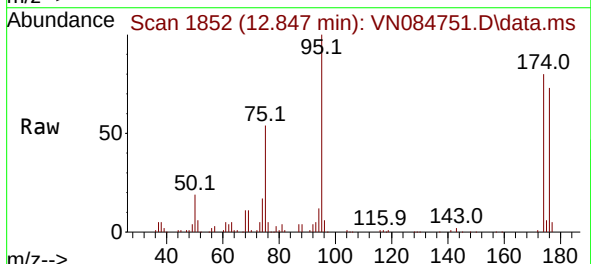
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-190-GW-638-640

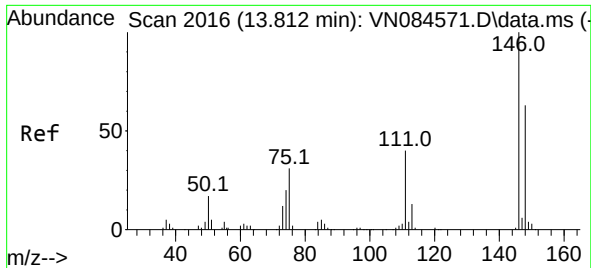
Tgt Ion: 75 Resp: 71289  
Ion Ratio Lower Upper  
75 100  
77 1.0 96.9 290.7#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 65.188 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

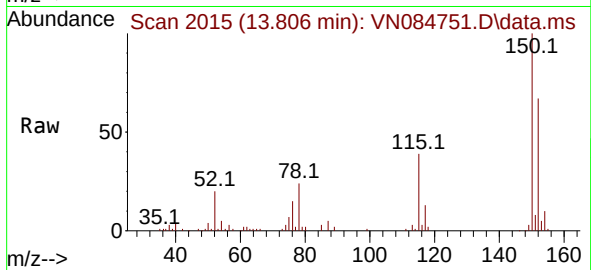
Tgt Ion: 75 Resp: 71289  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.0 35.5 53.3#





#88  
 1,4-Dichlorobenzene  
 Concen: Below Cal  
 RT: 13.806 min Scan# 20  
 Delta R.T. -0.006 min  
 Lab File: VN084751.D  
 Acq: 08 Nov 2024 15:44

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB-190-GW-638-640



Tgt Ion:146 Resp: 126  
 Ion Ratio Lower Upper  
 146 100  
 111 1550.0 21.2 63.6#  
 148 401.6 31.9 95.9#

