

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN103024\  
 Data File : VN084602.D  
 Acq On : 31 Oct 2024 05:45  
 Operator : JC\MD  
 Sample : P4612-04  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 34 Sample Multiplier: 1

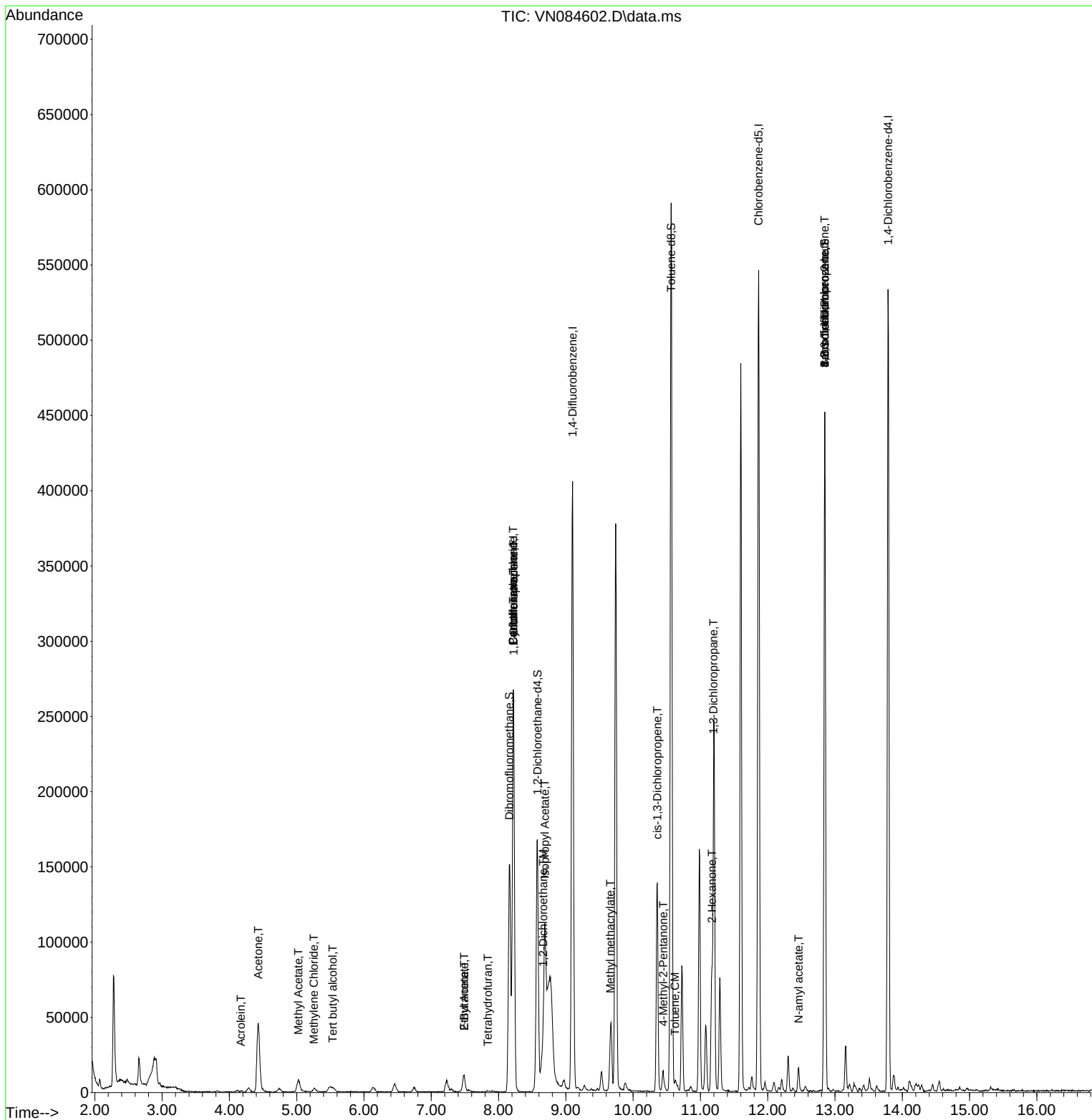
Instrument :  
 MSVOA\_N  
 ClientSampleId :

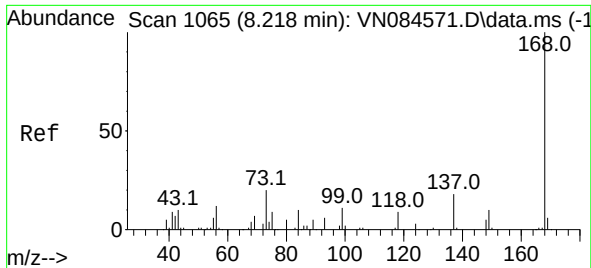
Quant Time: Nov 01 05:21:55 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N103024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 31 18:45:38 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.218  | 168   | 186825   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 341801   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 313987   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152   | 142248   | 50.000    | ug/l   | 0.00     |
|                               |        |       |          |           |        |          |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 137641   | 51.009    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 102.020% |
| 35) Dibromofluoromethane      | 8.159  | 113   | 110424   | 47.729    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 95.460%  |
| 50) Toluene-d8                | 10.565 | 98    | 409027   | 47.994    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 95.980%  |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 155292   | 48.755    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery  | =      | 97.520%  |
|                               |        |       |          |           |        |          |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.365  | 50    | 1301     | Below Cal | #      | 41       |
| 6) Chloroethane               | 3.036  | 64    | 119      | Below Cal | #      | 45       |
| 11) Tert butyl alcohol        | 5.536  | 59    | 4717     | 13.243    | ug/l # | 77       |
| 13) Acrolein                  | 4.171  | 56    | 1152     | 3.244     | ug/l   | 95       |
| 16) Acetone                   | 4.430  | 43    | 88362    | 111.786   | ug/l   | 100      |
| 18) Methyl Acetate            | 5.024  | 43    | 17822    | 2.464     | ug/l   | 98       |
| 20) Methylene Chloride        | 5.253  | 84    | 1848     | 0.779     | ug/l # | 64       |
| 25) 2-Butanone                | 7.489  | 43    | 19795    | 15.724    | ug/l   | 90       |
| 29) Tetrahydrofuran           | 7.841  | 42    | 908      | 1.087     | ug/l # | 39       |
| 31) Cyclohexane               | 8.218  | 56    | 3932     | 1.055     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 16586    | 5.169     | ug/l # | 50       |
| 37) Ethyl Acetate             | 7.489  | 43    | 19795    | 6.800     | ug/l # | 69       |
| 38) Carbon Tetrachloride      | 8.218  | 117   | 20578    | 5.738     | ug/l # | 15       |
| 42) 1,2-Dichloroethane        | 8.665  | 62    | 693      | 0.208     | ug/l # | 75       |
| 43) Isopropyl Acetate         | 8.688  | 43    | 160071   | 29.365    | ug/l # | 73       |
| 48) Methyl methacrylate       | 9.659  | 41    | 4041     | 1.784     | ug/l # | 41       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43    | 10951    | 3.946     | ug/l # | 86       |
| 52) Toluene                   | 10.624 | 92    | 2330     | 0.387     | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.359 | 75    | 25157    | 6.387     | ug/l # | 64       |
| 57) 1,3-Dichloropropane       | 11.194 | 76    | 2481     | 0.637     | ug/l # | 42       |
| 59) 2-Hexanone                | 11.171 | 43    | 68173    | 33.748    | ug/l # | 24       |
| 71) Bromoform                 | 12.847 | 173   | 1018     | 0.554     | ug/l # | 1        |
| 74) N-amyl acetate            | 12.459 | 43    | 11933    | 2.813     | ug/l # | 46       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 80307    | 28.243    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 80307    | 67.003    | ug/l # | 11       |
| 88) 1,4-Dichlorobenzene       | 13.818 | 146   | 183      | Below Cal | #      | 24       |
| -----                         |        |       |          |           |        |          |

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

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QLast Update : Thu Oct 31 18:45:38 2024  
Response via : Initial Calibration

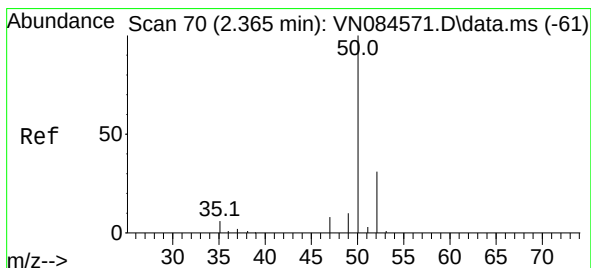
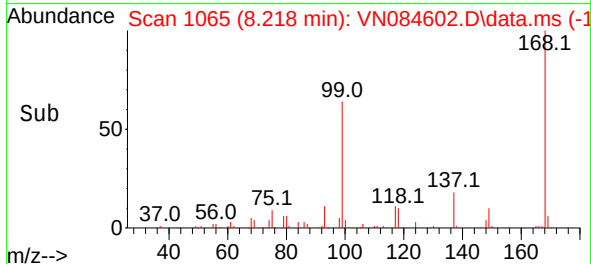
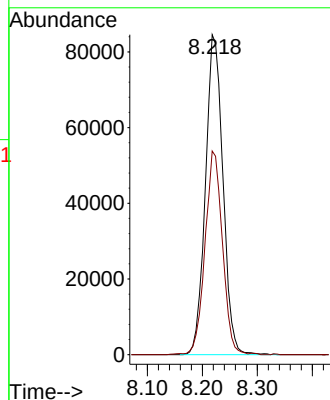
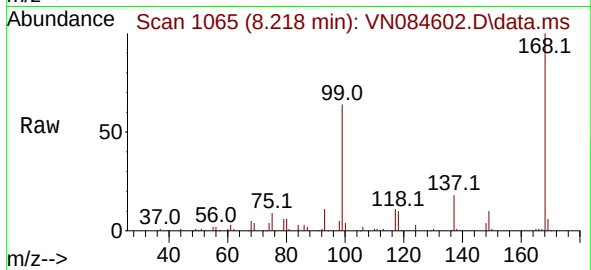




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.218 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

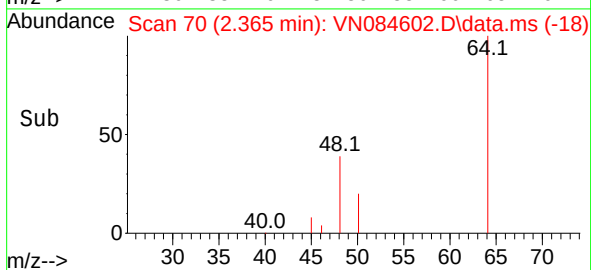
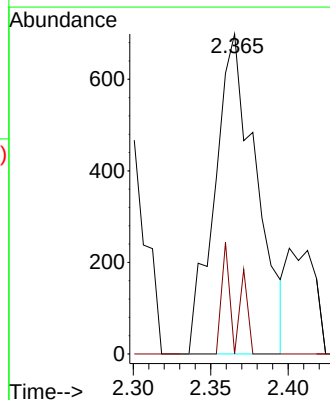
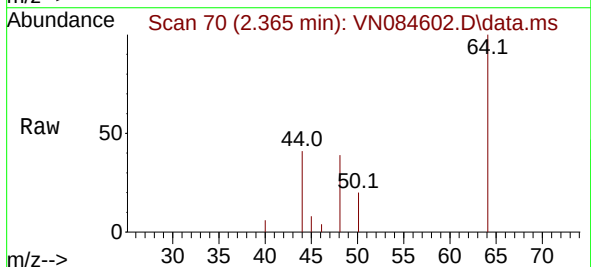
Instrument :  
MSVOA\_N  
ClientSampleId :

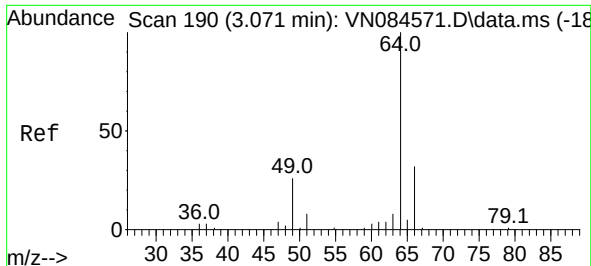
Tgt Ion:168 Resp: 186825  
Ion Ratio Lower Upper  
168 100  
99 63.7 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

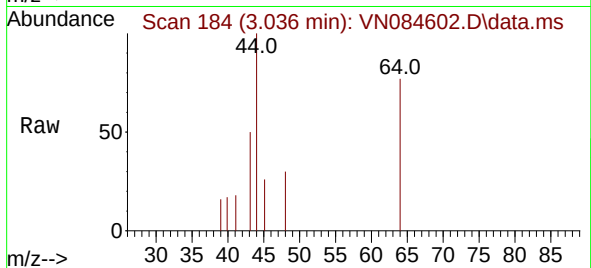
Tgt Ion: 50 Resp: 1301  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.8 40.2#



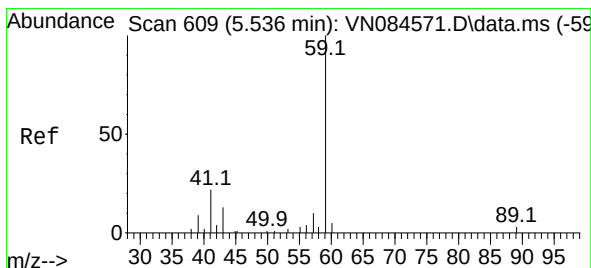
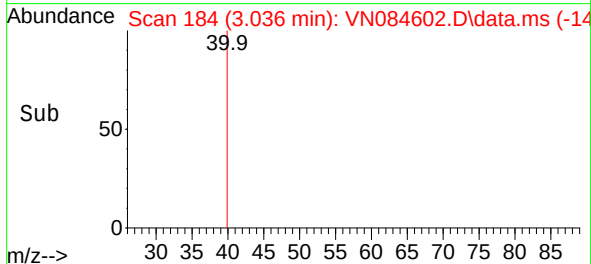
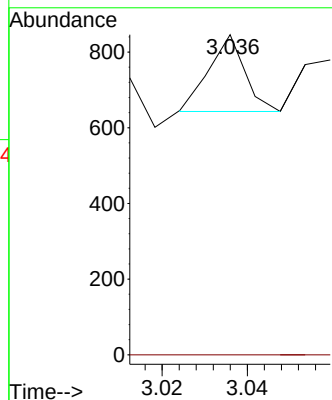


#6  
Chloroethane  
Concen: Below Cal  
RT: 3.036 min Scan# 119  
Delta R.T. -0.082 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

Instrument :  
MSVOA\_N  
ClientSampleId :

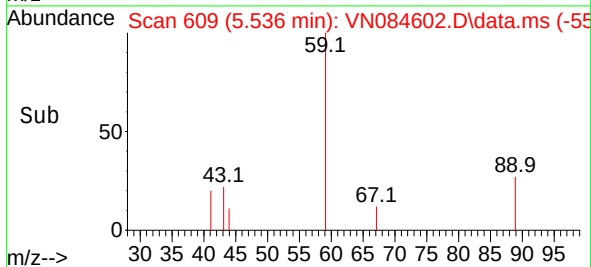
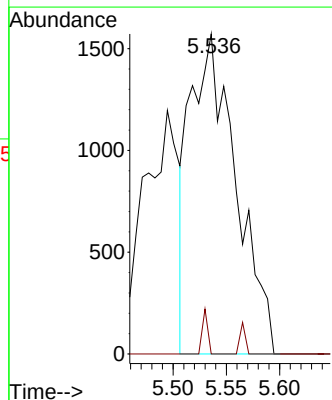
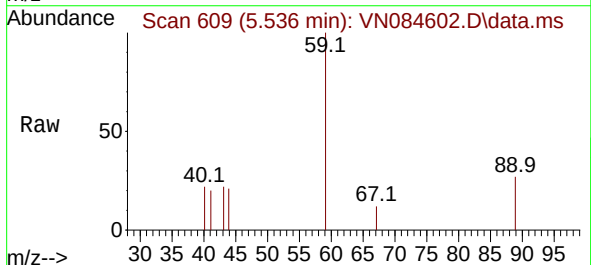


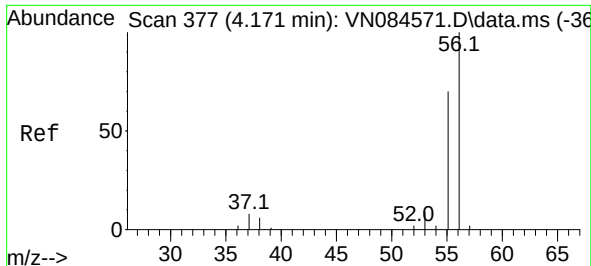
Tgt Ion: 64 Resp: 119  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.5 35.3#



#11  
Tert butyl alcohol  
Concen: 13.243 ug/l  
RT: 5.536 min Scan# 609  
Delta R.T. 0.012 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

Tgt Ion: 59 Resp: 4717  
Ion Ratio Lower Upper  
59 100  
57 1.7 8.2 12.2#





#13

Acrolein

Concen: 3.244 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN084602.D

Acq: 31 Oct 2024 05:45

Instrument :

MSVOA\_N

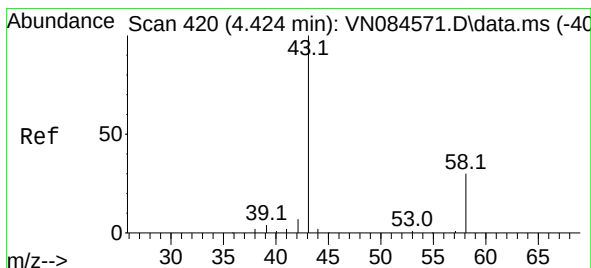
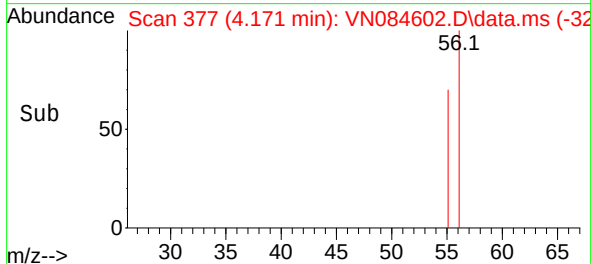
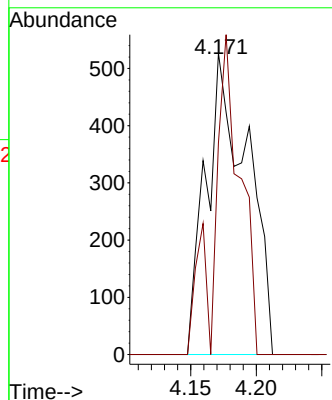
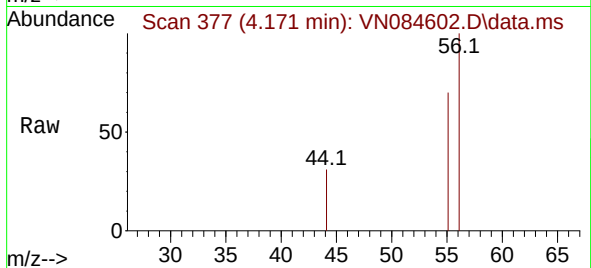
ClientSampleId :

Tgt Ion: 56 Resp: 1152

Ion Ratio Lower Upper

56 100

55 67.6 57.2 85.8



#16

Acetone

Concen: 111.786 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.006 min

Lab File: VN084602.D

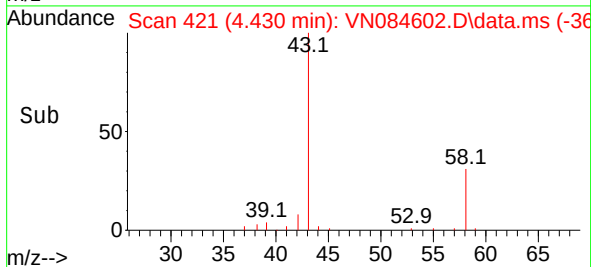
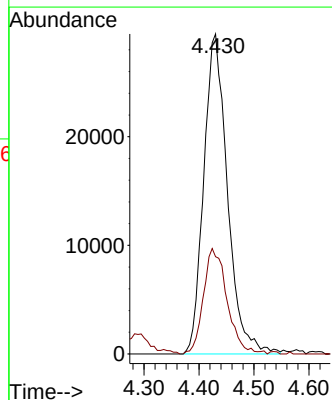
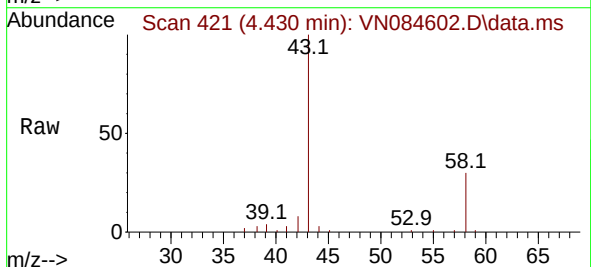
Acq: 31 Oct 2024 05:45

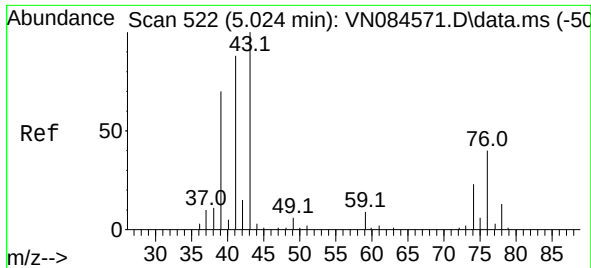
Tgt Ion: 43 Resp: 88362

Ion Ratio Lower Upper

43 100

58 30.4 24.4 36.6

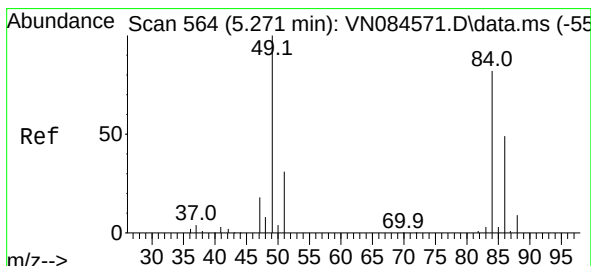
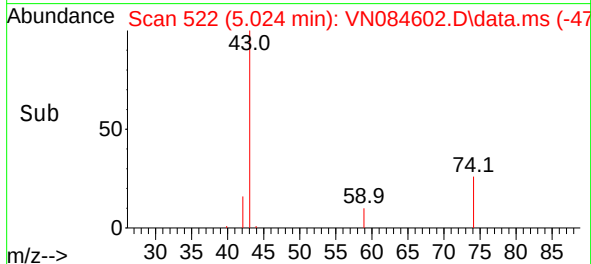
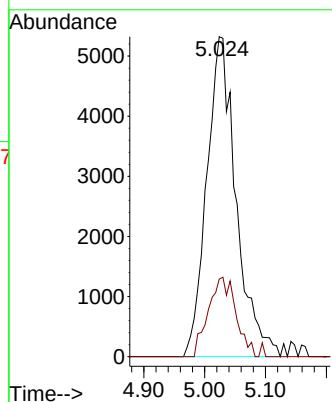
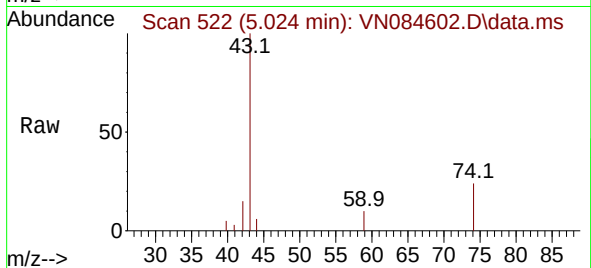




#18  
Methyl Acetate  
Concen: 2.464 ug/l  
RT: 5.024 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

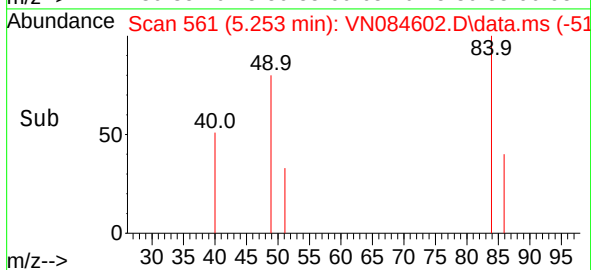
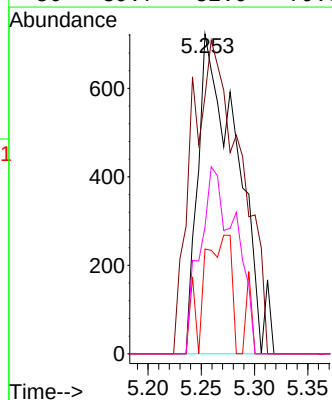
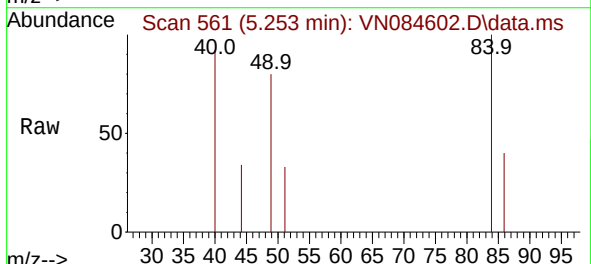
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MSVOA\_N  
ClientSampleId :

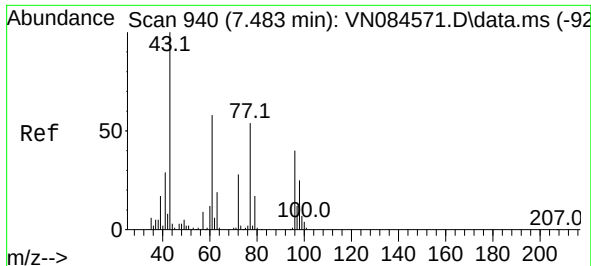
Tgt Ion: 43 Resp: 17822  
Ion Ratio Lower Upper  
43 100  
74 23.2 19.2 28.8



#20  
Methylene Chloride  
Concen: 0.779 ug/l  
RT: 5.253 min Scan# 561  
Delta R.T. -0.024 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

Tgt Ion: 84 Resp: 1848  
Ion Ratio Lower Upper  
84 100  
49 80.5 107.2 160.8#  
51 32.8 31.8 47.8  
86 39.7 52.9 79.3#

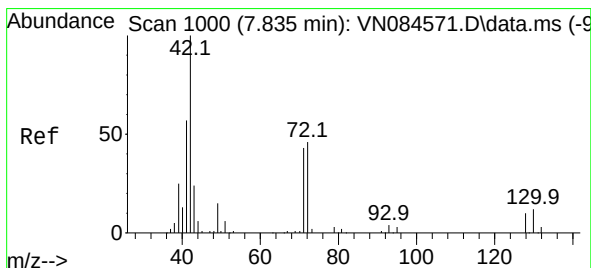
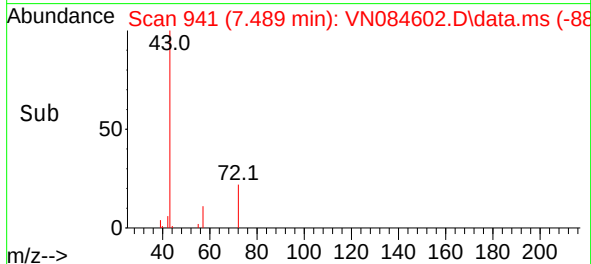
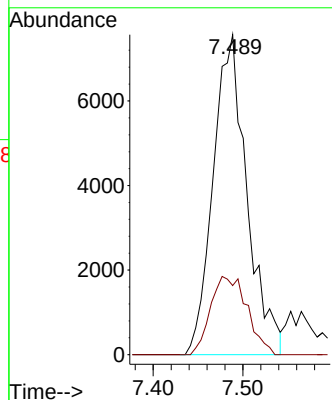
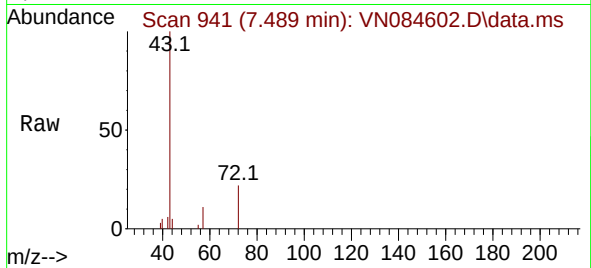




#25  
2-Butanone  
Concen: 15.724 ug/l  
RT: 7.489 min Scan# 941  
Delta R.T. 0.006 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

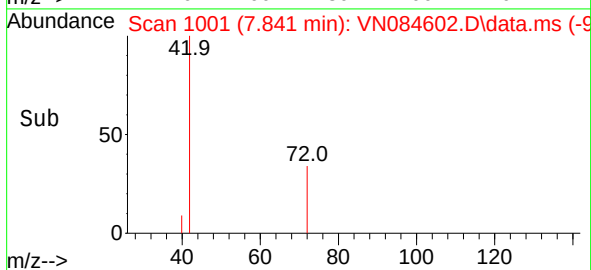
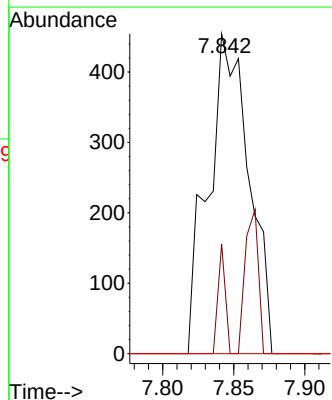
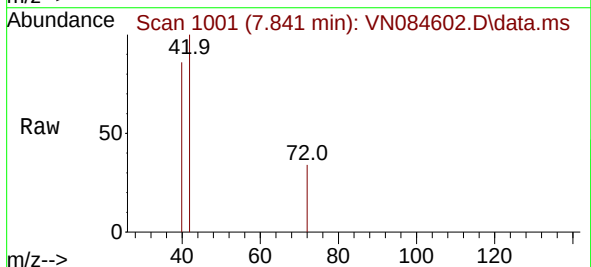
Instrument :  
MSVOA\_N  
ClientSampleId :

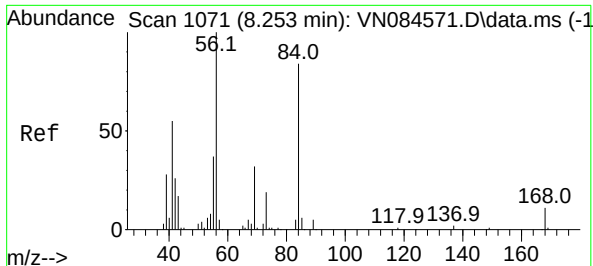
Tgt Ion: 43 Resp: 19795  
Ion Ratio Lower Upper  
43 100  
72 21.6 21.4 32.2



#29  
Tetrahydrofuran  
Concen: 1.087 ug/l  
RT: 7.841 min Scan# 1001  
Delta R.T. 0.006 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

Tgt Ion: 42 Resp: 908  
Ion Ratio Lower Upper  
42 100  
72 6.1 34.6 51.8#  
71 0.0 32.2 48.4#

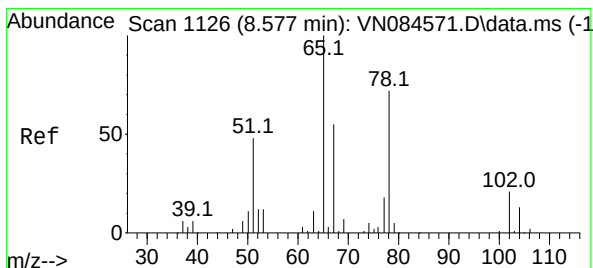
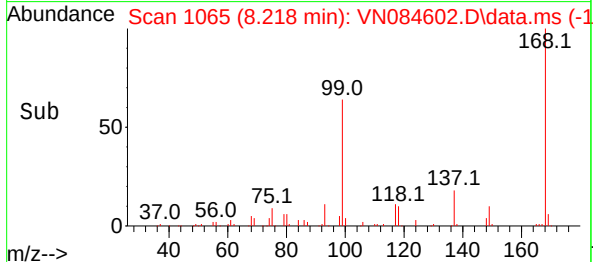
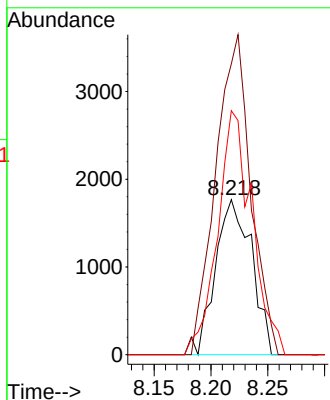
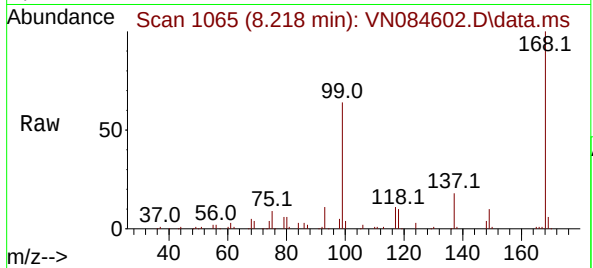




#31  
Cyclohexane  
Concen: 1.055 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.035 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

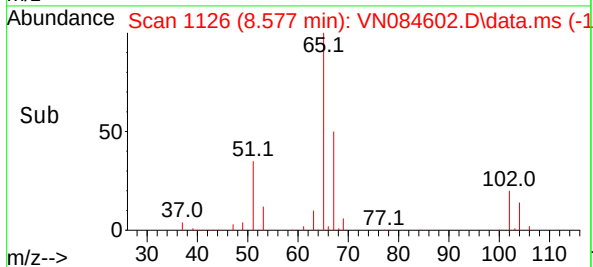
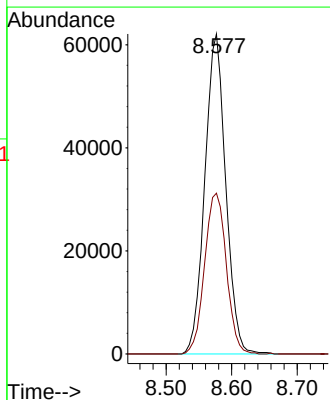
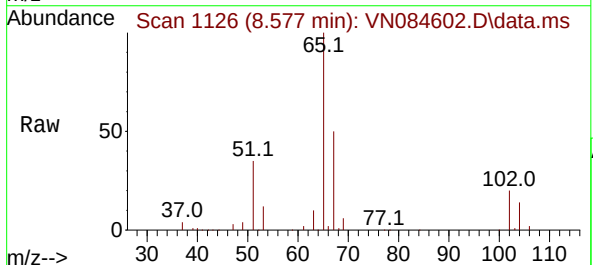
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 56 Resp: 3932  
Ion Ratio Lower Upper  
56 100  
69 187.5 23.8 35.6#  
84 157.4 68.8 103.2#

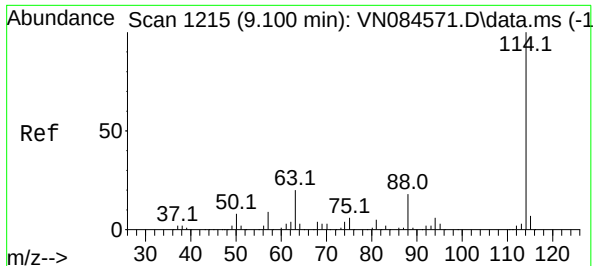


#33  
1,2-Dichloroethane-d4  
Concen: 51.009 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. -0.000 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

Tgt Ion: 65 Resp: 137641  
Ion Ratio Lower Upper  
65 100  
67 52.3 0.0 102.0



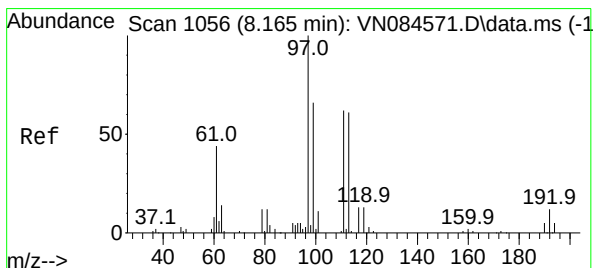
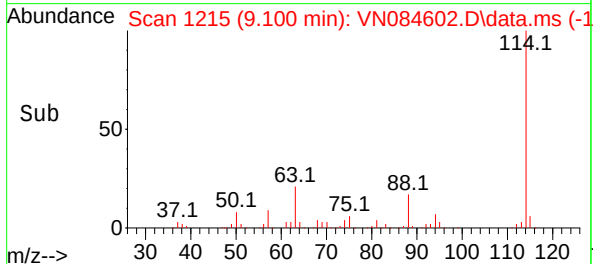
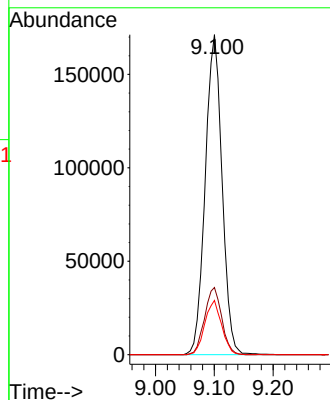
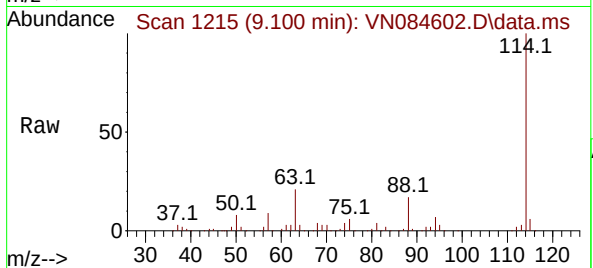




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.100 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

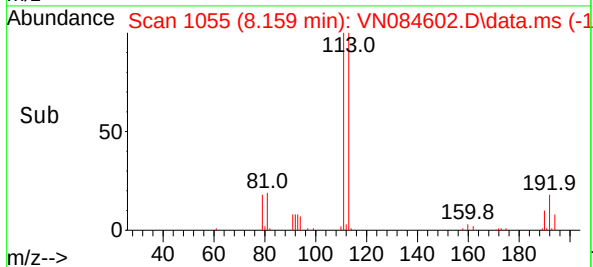
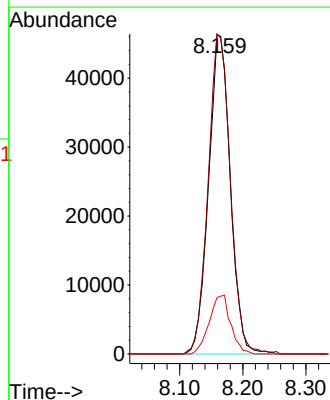
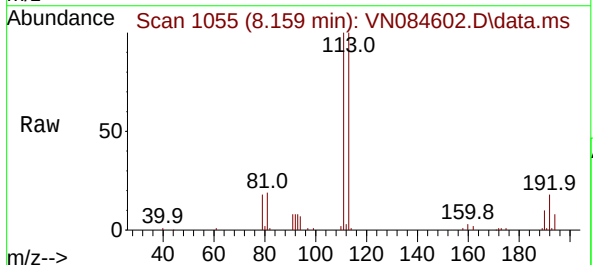
Instrument :  
MSVOA\_N  
ClientSampleId :

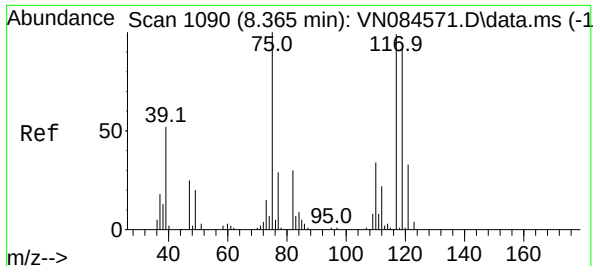
Tgt Ion:114 Resp: 341801  
Ion Ratio Lower Upper  
114 100  
63 21.0 0.0 43.8  
88 16.9 0.0 31.6



#35  
Dibromofluoromethane  
Concen: 47.729 ug/l  
RT: 8.159 min Scan# 1055  
Delta R.T. -0.006 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

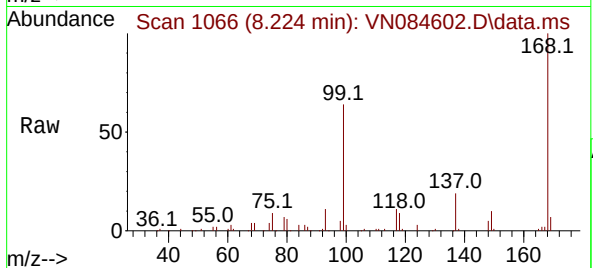
Tgt Ion:113 Resp: 110424  
Ion Ratio Lower Upper  
113 100  
111 102.6 83.3 124.9  
192 18.1 13.5 20.3



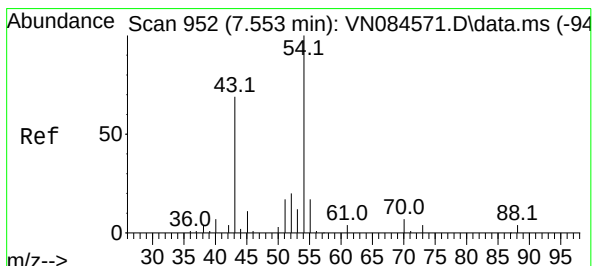
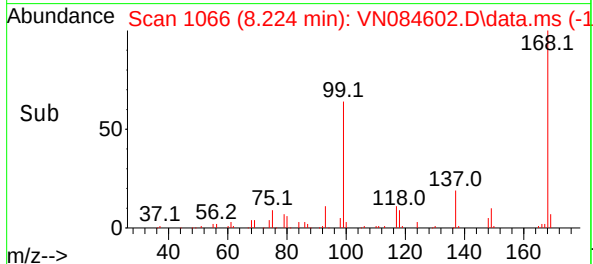
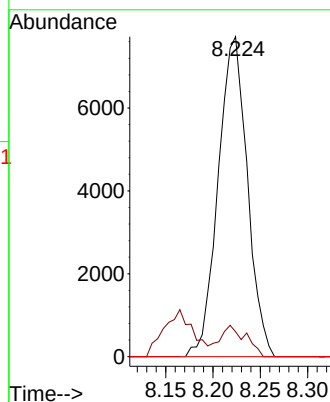


#36  
1,1-Dichloropropene  
Concen: 5.169 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.147 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

Instrument :  
MSVOA\_N  
ClientSampleId :

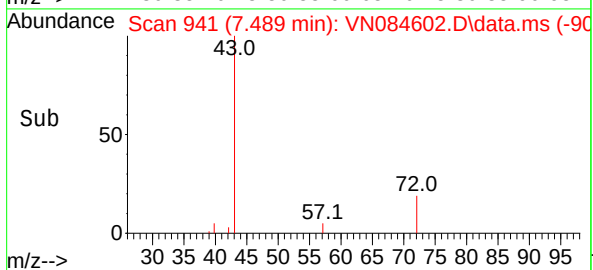
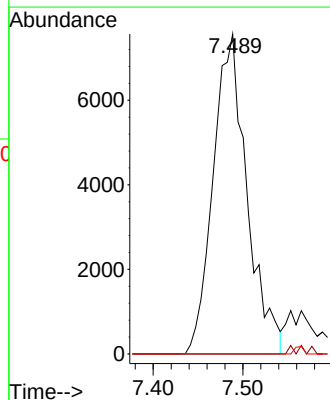
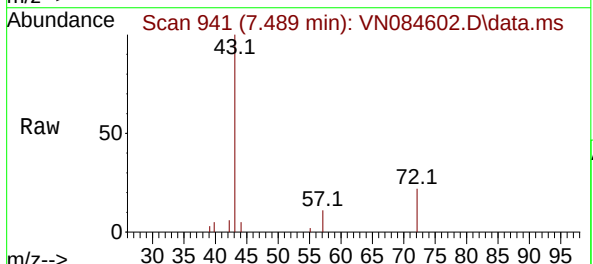


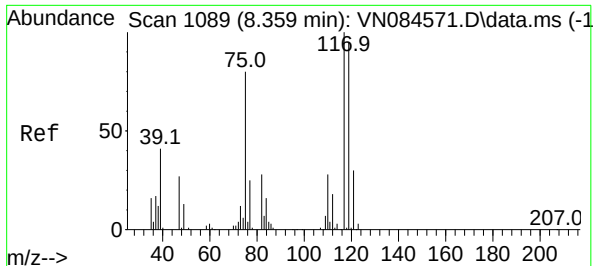
Tgt Ion: 75 Resp: 16586  
Ion Ratio Lower Upper  
75 100  
110 8.8 16.9 50.7#  
77 0.0 24.7 37.1#



#37  
Ethyl Acetate  
Concen: 6.800 ug/l  
RT: 7.489 min Scan# 941  
Delta R.T. -0.070 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

Tgt Ion: 43 Resp: 19795  
Ion Ratio Lower Upper  
43 100  
61 0.0 10.7 16.1#  
70 0.0 8.8 13.2#





#38

Carbon Tetrachloride

Concen: 5.738 ug/l

RT: 8.218 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN084602.D

Acq: 31 Oct 2024 05:45

Instrument :

MSVOA\_N

ClientSampleId :

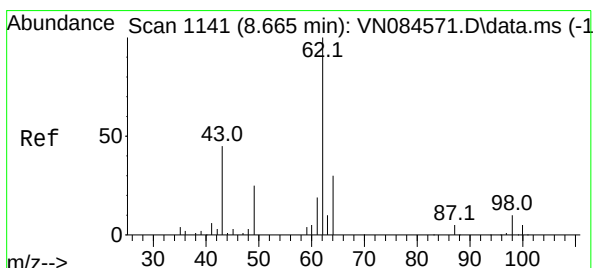
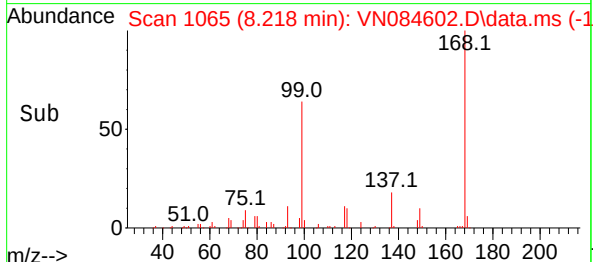
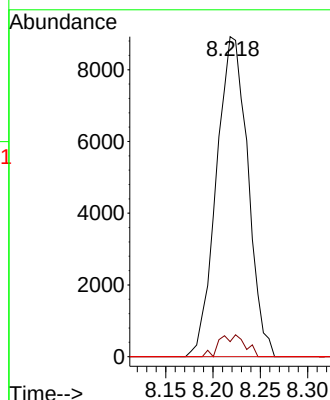
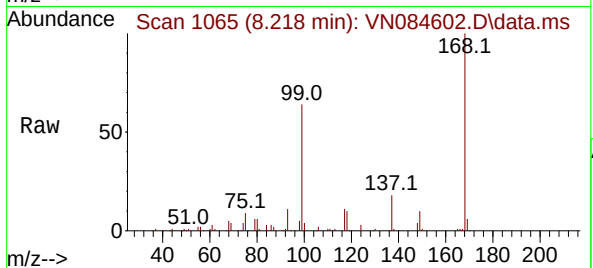
Tgt Ion:117 Resp: 20578

Ion Ratio Lower Upper

117 100

119 4.7 78.7 118.1#

121 0.0 24.4 36.6#



#42

1,2-Dichloroethane

Concen: 0.208 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.006 min

Lab File: VN084602.D

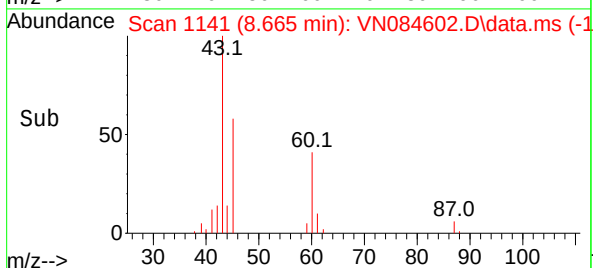
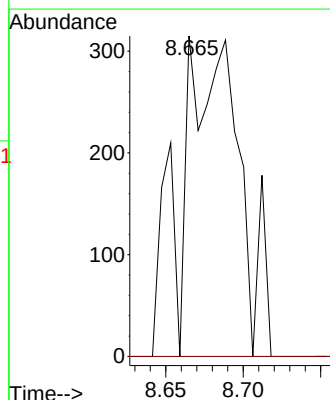
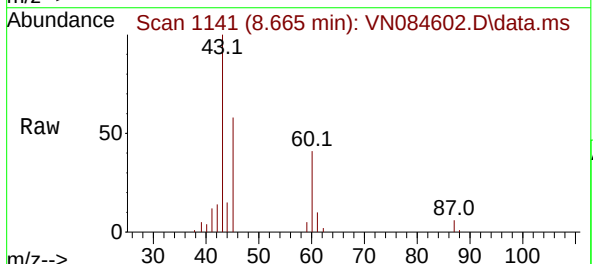
Acq: 31 Oct 2024 05:45

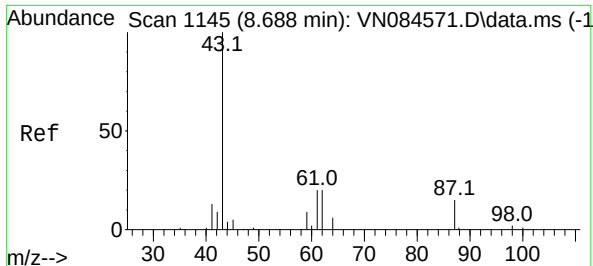
Tgt Ion: 62 Resp: 693

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2





#43

Isopropyl Acetate

Concen: 29.365 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084602.D

Acq: 31 Oct 2024 05:45

Instrument :

MSVOA\_N

ClientSampleId :

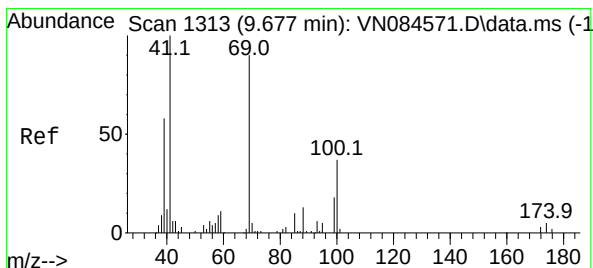
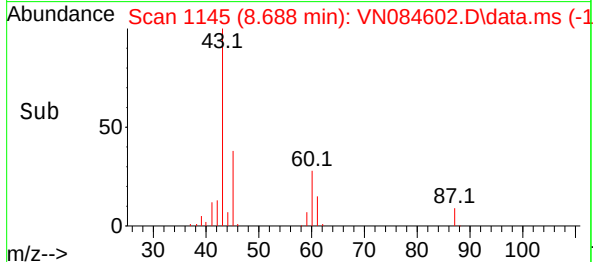
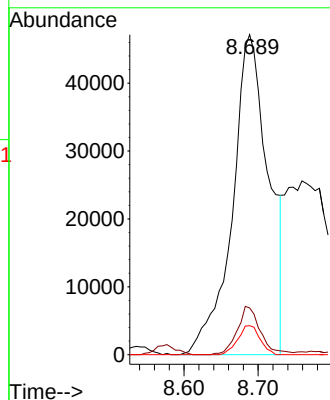
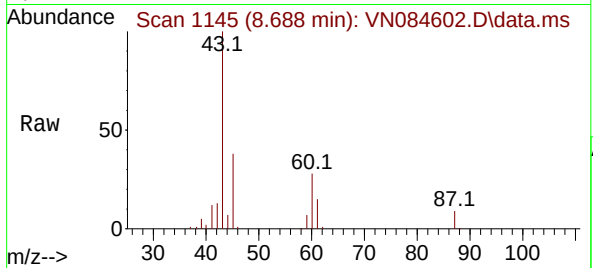
Tgt Ion: 43 Resp: 160071

Ion Ratio Lower Upper

43 100

61 9.6 20.4 30.6#

87 5.5 10.3 15.5#



#48

Methyl methacrylate

Concen: 1.784 ug/l

RT: 9.659 min Scan# 1310

Delta R.T. -0.018 min

Lab File: VN084602.D

Acq: 31 Oct 2024 05:45

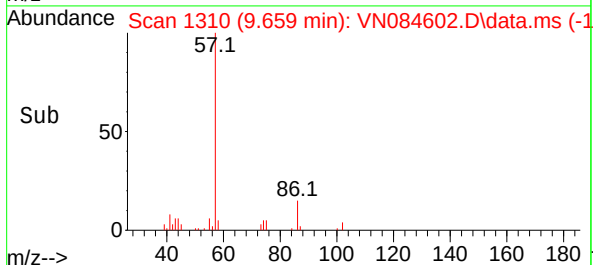
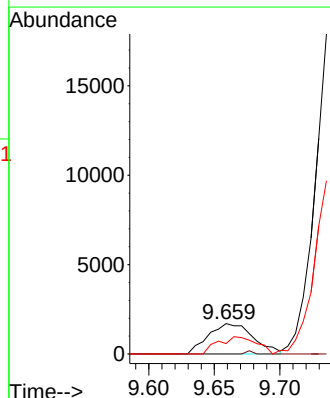
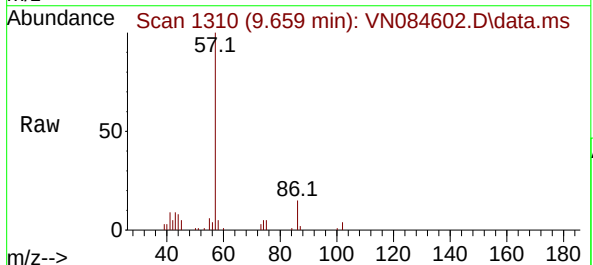
Tgt Ion: 41 Resp: 4041

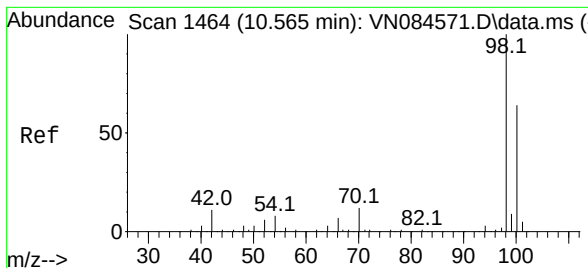
Ion Ratio Lower Upper

41 100

69 1.5 67.1 100.7#

39 48.4 45.8 68.6

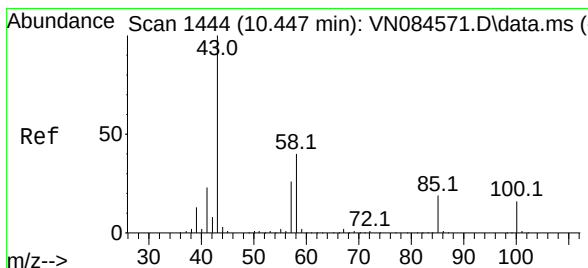
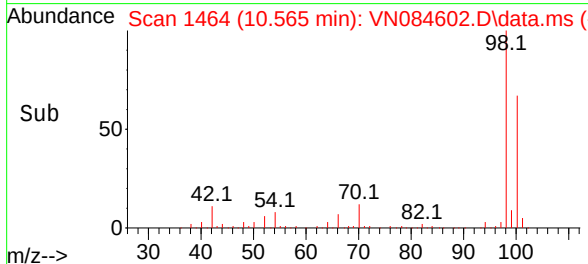
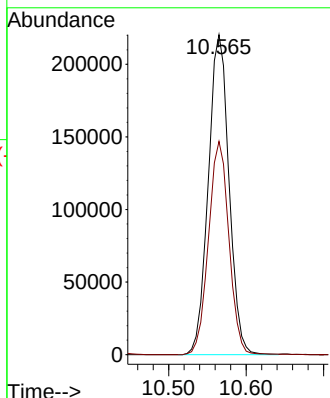
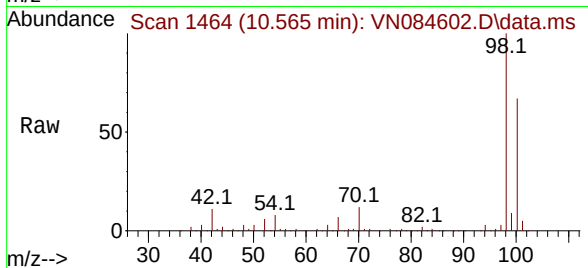




#50  
Toluene-d8  
Concen: 47.994 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

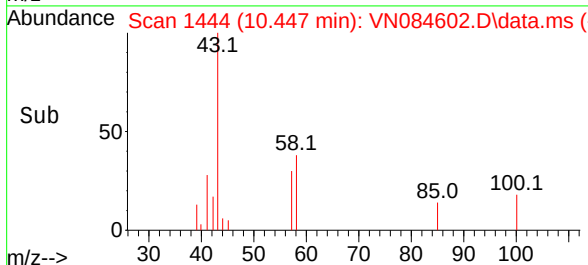
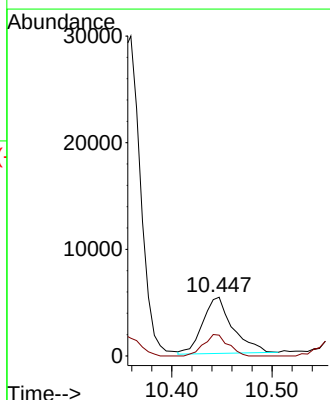
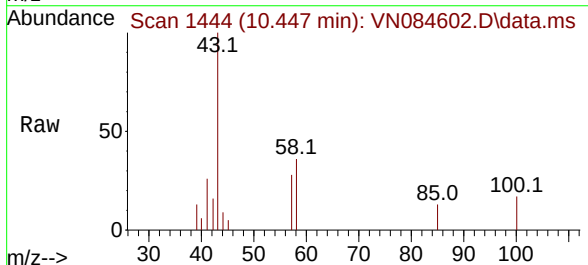
Instrument :  
MSVOA\_N  
ClientSampleId :

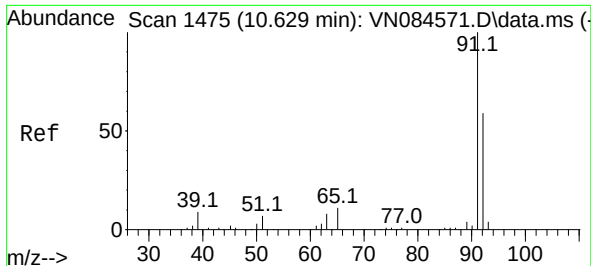
Tgt Ion: 98 Resp: 409027  
Ion Ratio Lower Upper  
98 100  
100 65.6 52.7 79.1



#51  
4-Methyl-2-Pentanone  
Concen: 3.946 ug/l  
RT: 10.447 min Scan# 1444  
Delta R.T. 0.006 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

Tgt Ion: 43 Resp: 10951  
Ion Ratio Lower Upper  
43 100  
58 31.0 31.6 47.4#

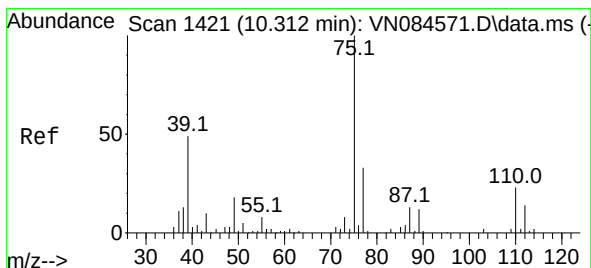
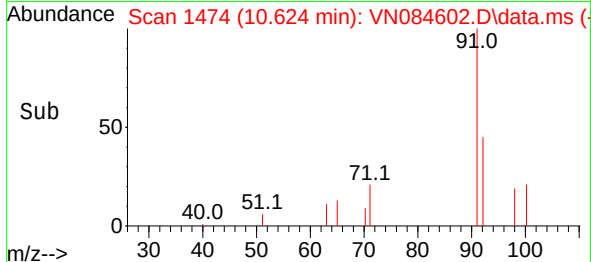
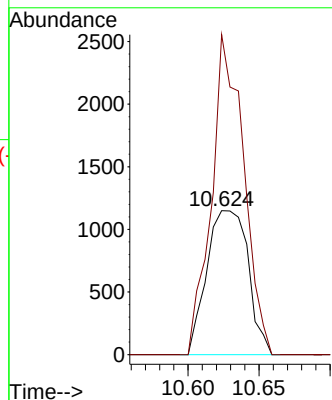
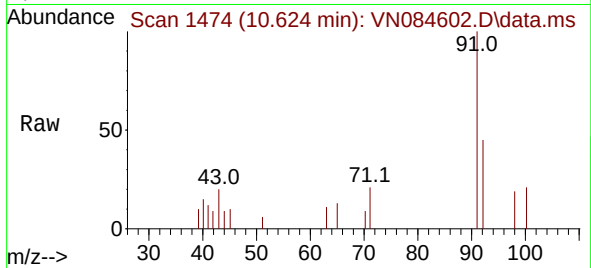




#52  
Toluene  
Concen: 0.387 ug/l  
RT: 10.624 min Scan# 1475  
Delta R.T. -0.006 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

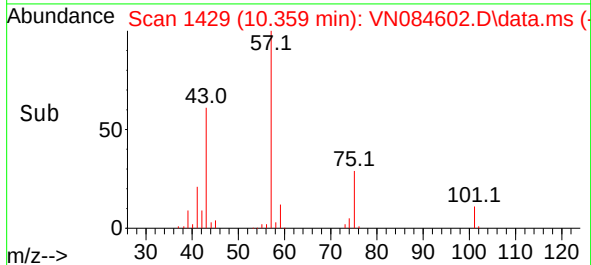
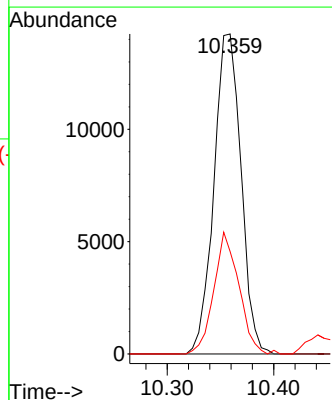
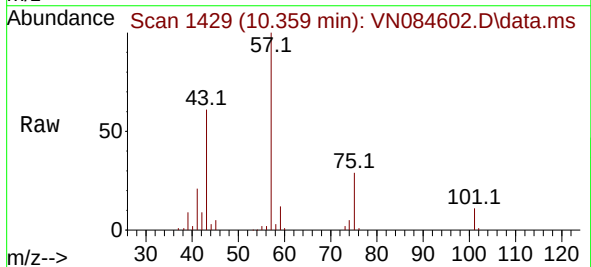
Instrument :  
MSVOA\_N  
ClientSampleId :

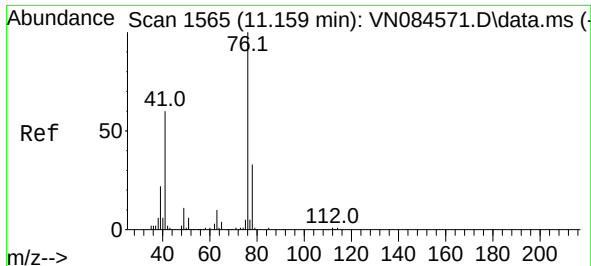
Tgt Ion: 92 Resp: 2330  
Ion Ratio Lower Upper  
92 100  
91 173.1 137.3 205.9



#54  
cis-1,3-Dichloropropene  
Concen: 6.387 ug/l  
RT: 10.359 min Scan# 1429  
Delta R.T. 0.047 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

Tgt Ion: 75 Resp: 25157  
Ion Ratio Lower Upper  
75 100  
77 0.0 24.2 36.2#  
39 32.0 38.7 58.1#





#57

1,3-Dichloropropane

Concen: 0.637 ug/l

RT: 11.194 min Scan# 1567

Delta R.T. 0.035 min

Lab File: VN084602.D

Acq: 31 Oct 2024 05:45

Instrument :

MSVOA\_N

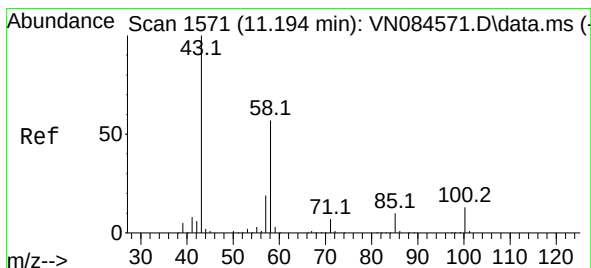
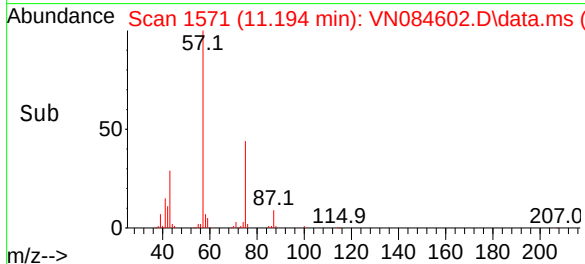
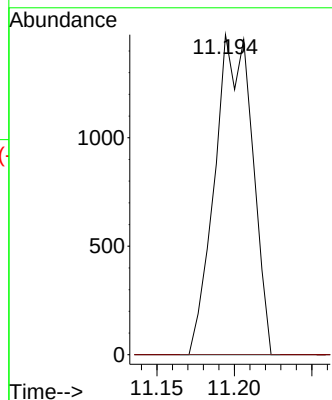
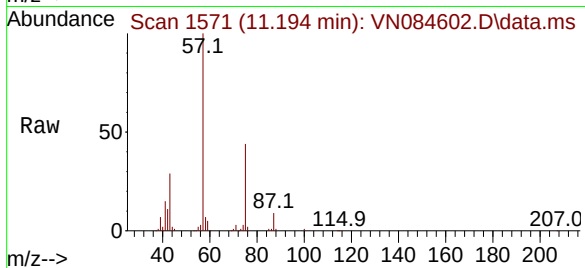
ClientSampleId :

Tgt Ion: 76 Resp: 2481

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 33.748 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.023 min

Lab File: VN084602.D

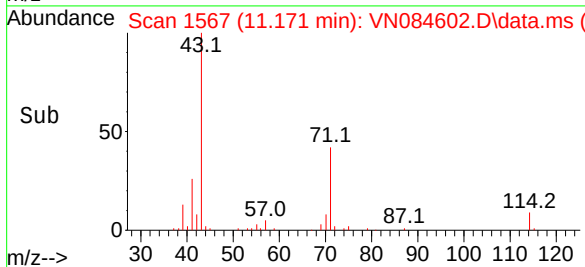
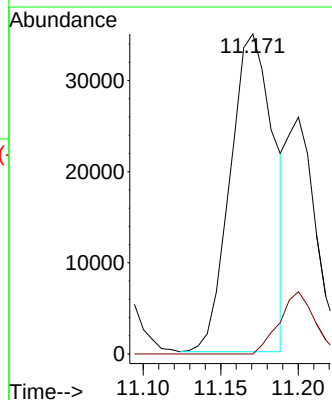
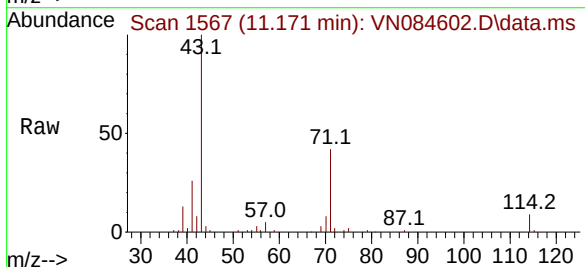
Acq: 31 Oct 2024 05:45

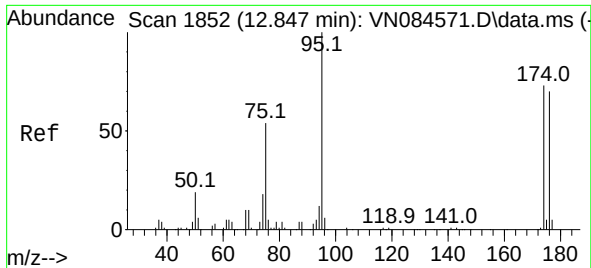
Tgt Ion: 43 Resp: 68173

Ion Ratio Lower Upper

43 100

58 0.0 27.3 81.8#





#62

4-Bromofluorobenzene

Concen: 48.755 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN084602.D

Acq: 31 Oct 2024 05:45

Instrument :

MSVOA\_N

ClientSampleId :

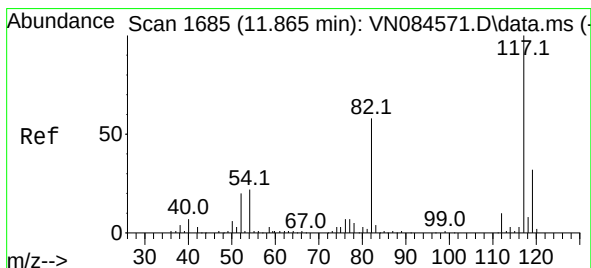
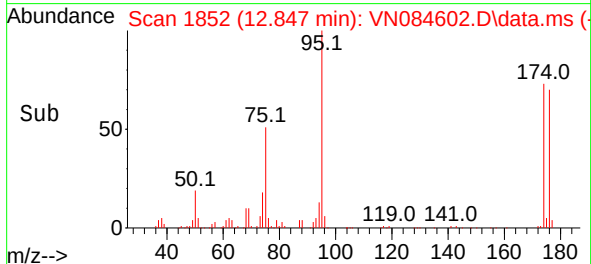
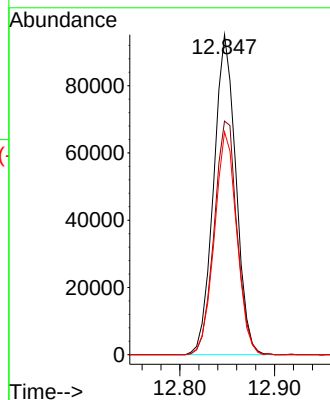
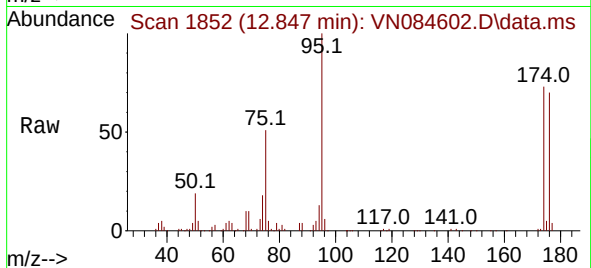
Tgt Ion: 95 Resp: 155292

Ion Ratio Lower Upper

95 100

174 75.4 0.0 145.2

176 70.0 0.0 140.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN084602.D

Acq: 31 Oct 2024 05:45

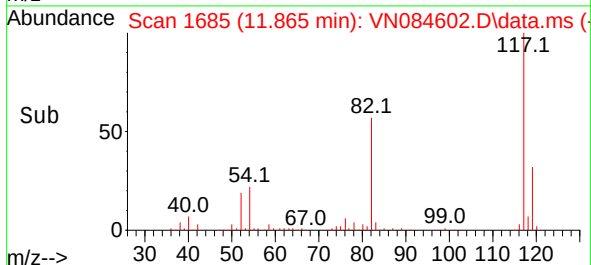
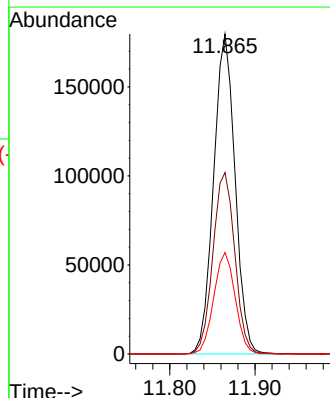
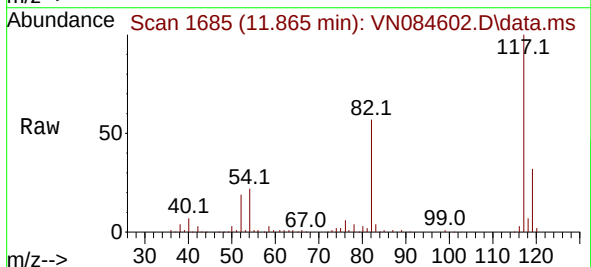
Tgt Ion: 117 Resp: 313987

Ion Ratio Lower Upper

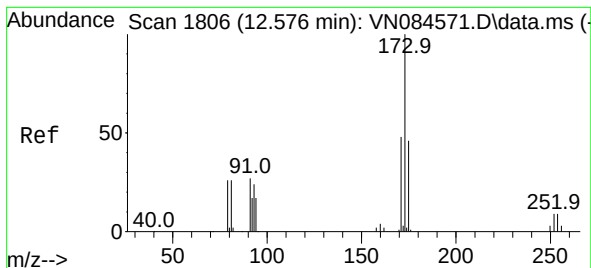
117 100

82 56.7 47.2 70.8

119 31.7 25.4 38.0







#71

Bromoform

Concen: 0.554 ug/l

RT: 12.847 min Scan# 1806

Delta R.T. 0.271 min

Lab File: VN084602.D

Acq: 31 Oct 2024 05:45

Instrument :

MSVOA\_N

ClientSampleId :

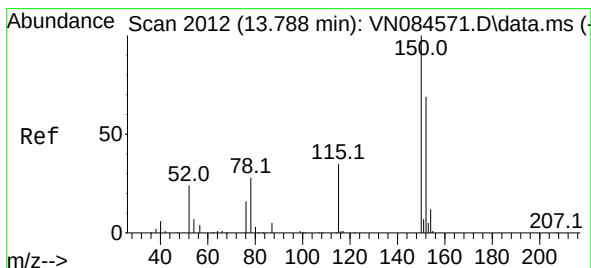
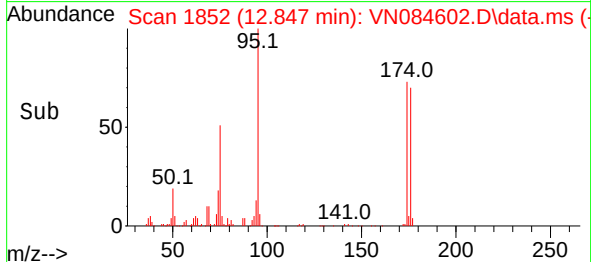
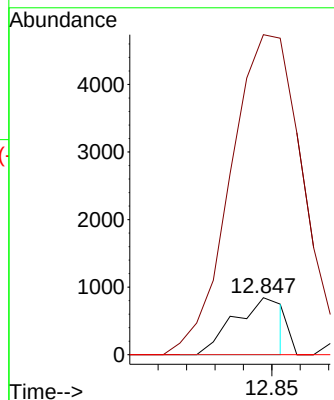
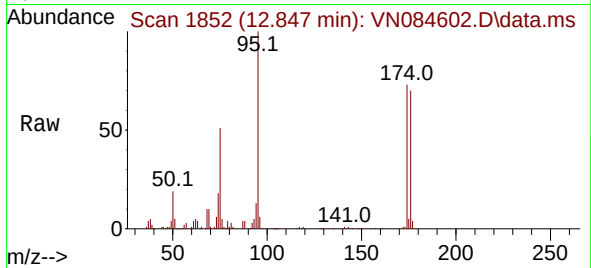
Tgt Ion:173 Resp: 1018

Ion Ratio Lower Upper

173 100

175 621.9 23.5 70.6#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN084602.D

Acq: 31 Oct 2024 05:45

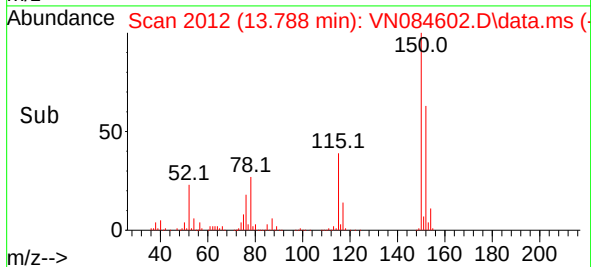
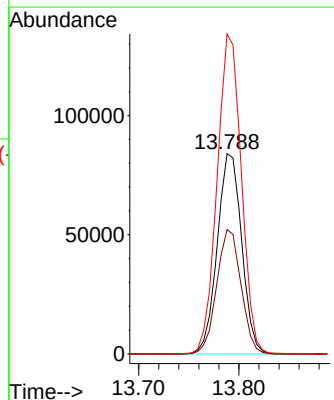
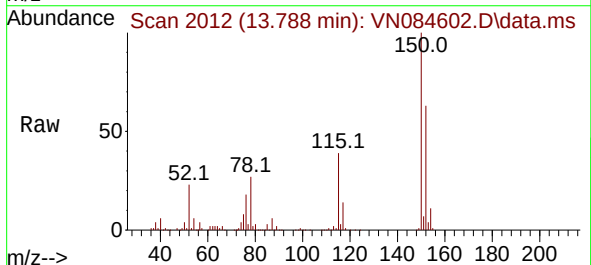
Tgt Ion:152 Resp: 142248

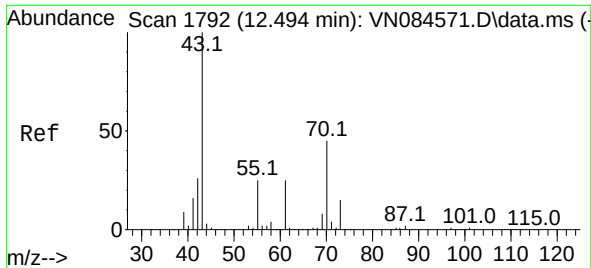
Ion Ratio Lower Upper

152 100

115 61.7 31.3 93.9

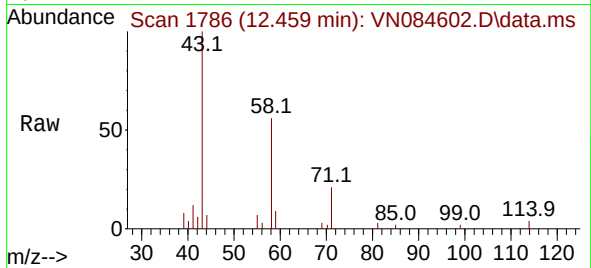
150 158.7 0.0 349.8



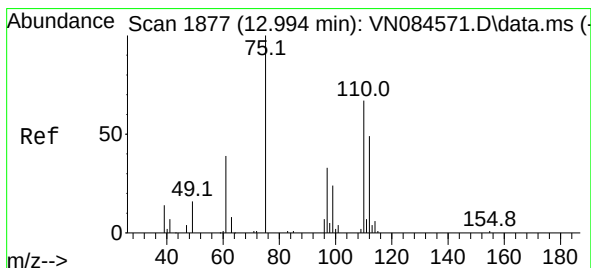
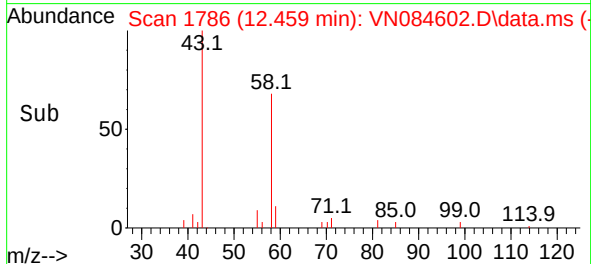
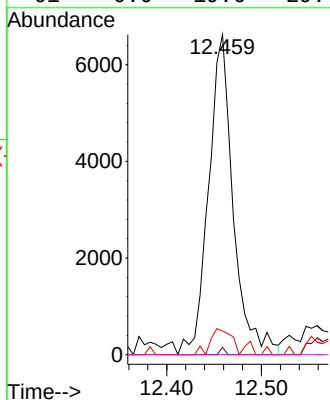


#74  
N-ethyl acetate  
Concen: 2.813 ug/l  
RT: 12.459 min Scan# 11933  
Delta R.T. -0.035 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

Instrument :  
MSVOA\_N  
ClientSampleId :

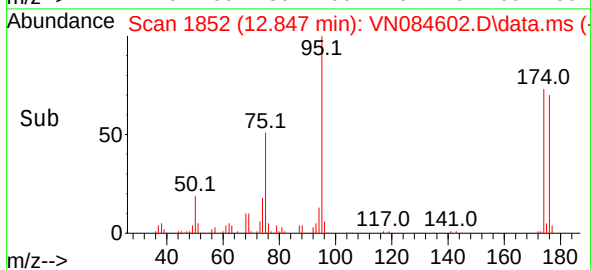
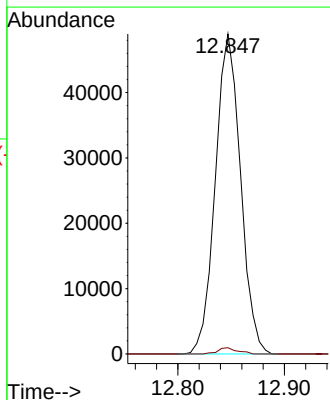
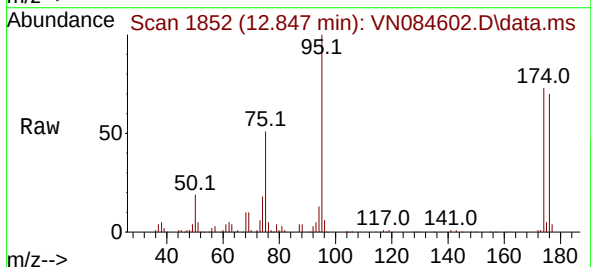


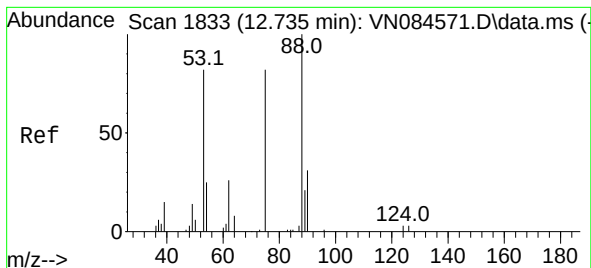
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 11933 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 70       | 0.5   | 34.4  | 51.6# |
| 55       | 6.9   | 19.6  | 29.4# |
| 61       | 0.0   | 19.6  | 29.4# |



#76  
1,2,3-Trichloropropane  
Concen: 28.243 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.141 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 80307  |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 77       | 1.5   | 96.9  | 290.7# |

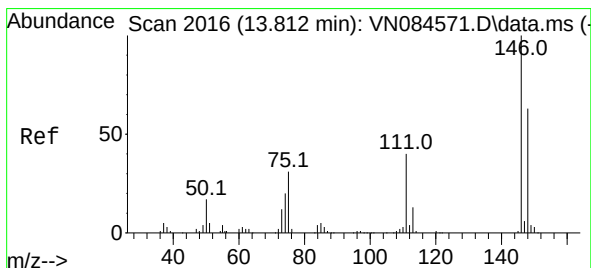
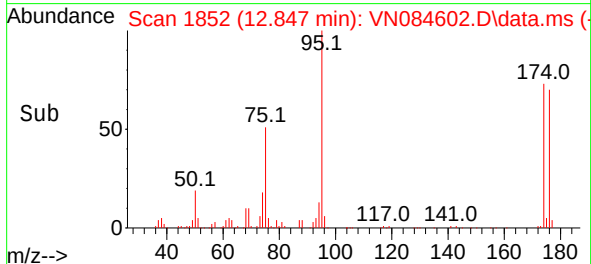
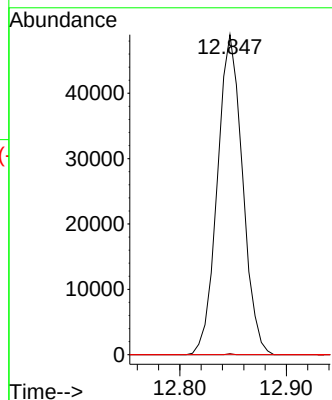
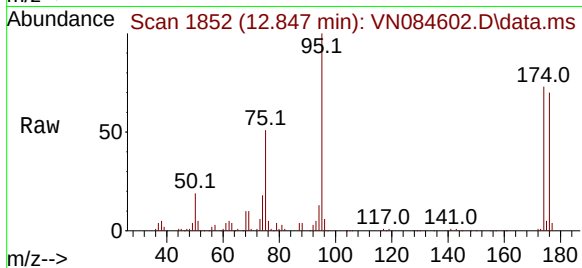




#81  
trans-1,4-Dichloro-2-butene  
Concen: 67.003 ug/l  
RT: 12.847 min Scan# 1833  
Delta R.T. 0.112 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 75 Resp: 80307  
Ion Ratio Lower Upper  
75 100  
53 0.1 78.0 117.0#  
89 0.0 35.5 53.3#



#88  
1,4-Dichlorobenzene  
Concen: Below Cal  
RT: 13.818 min Scan# 2017  
Delta R.T. 0.006 min  
Lab File: VN084602.D  
Acq: 31 Oct 2024 05:45

Tgt Ion:146 Resp: 183  
Ion Ratio Lower Upper  
146 100  
111 0.0 21.2 63.6#  
148 0.0 31.9 95.9#

