

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091224\  
 Data File : VN083862.D  
 Acq On : 13 Sep 2024 08:36  
 Operator : JC\MD  
 Sample : P3957-17  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE104D1-20240911

Quant Time: Sep 13 09:14:25 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 11 15:18:56 2024  
 Response via : Initial Calibration

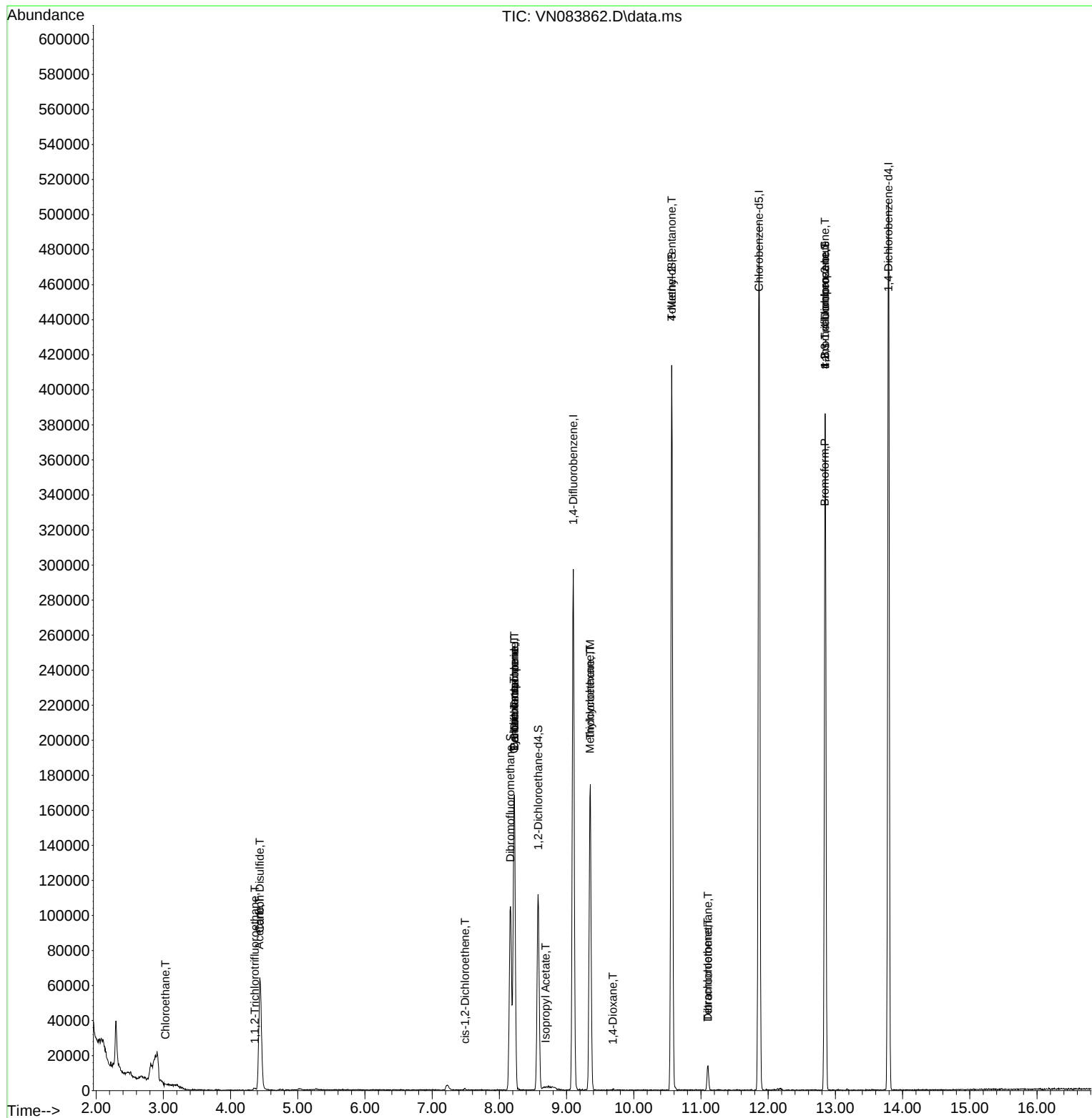
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 114677   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 241310   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 269120   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152   | 129907   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.576  | 65    | 95238    | 55.077    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 110.160% |
| 35) Dibromofluoromethane      | 8.165  | 113   | 75144    | 48.642    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 97.280%  |
| 50) Toluene-d8                | 10.565 | 98    | 271688   | 50.872    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 101.740% |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 130936   | 59.425    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery  | =      | 118.840% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.359  | 50    | 919      | Below Cal |        | 99       |
| 6) Chloroethane               | 3.030  | 64    | 988      | 0.965     | ug/l # | 88       |
| 9) 1,1,2-Trichlorotrifluo...  | 4.359  | 101   | 862      | 0.656     | ug/l # | 41       |
| 16) Acetone                   | 4.430  | 43    | 798      | 1.151     | ug/l # | 45       |
| 17) Carbon Disulfide          | 4.436  | 76    | 1895     | 0.546     | ug/l # | 75       |
| 18) Methyl Acetate            | 5.024  | 43    | 1695     | Below Cal | #      | 52       |
| 27) cis-1,2-Dichloroethene    | 7.488  | 96    | 331      | 0.210     | ug/l   | 78       |
| 31) Cyclohexane               | 8.218  | 56    | 3278     | 1.312     | ug/l # | 14       |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 10703    | 4.603     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 13214    | 5.009     | ug/l # | 15       |
| 39) Methylcyclohexane         | 9.347  | 83    | 626      | 0.237     | ug/l # | 1        |
| 43) Isopropyl Acetate         | 8.688  | 43    | 1088     | 0.284     | ug/l # | 57       |
| 44) Trichloroethene           | 9.353  | 130   | 59771    | 36.880    | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.688  | 88    | 199      | 6.666     | ug/l # | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.565 | 43    | 1479     | 0.710     | ug/l # | 1        |
| 60) Dibromochloromethane      | 11.106 | 129   | 3053     | 1.707     | ug/l # | 10       |
| 64) Tetrachloroethene         | 11.100 | 164   | 3155     | 1.763     | ug/l # | 85       |
| 71) Bromoform                 | 12.841 | 173   | 352      | 0.252     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 74157    | 28.291    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 74157    | 74.095    | ug/l # | 9        |
| -----                         |        |       |          |           |        |          |

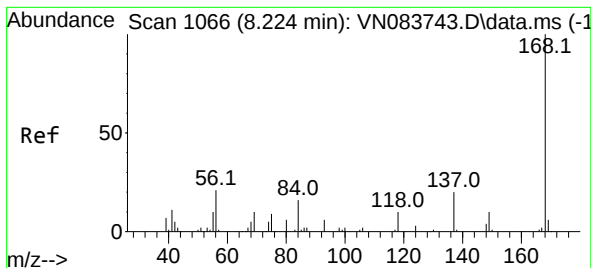
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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RE104D1-20240911

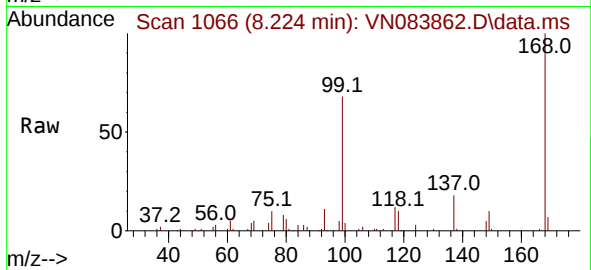
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Quant Title : SW846 8260  
QLast Update : Wed Sep 11 15:18:56 2024  
Response via : Initial Calibration



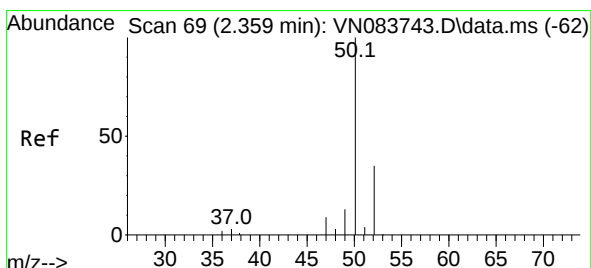
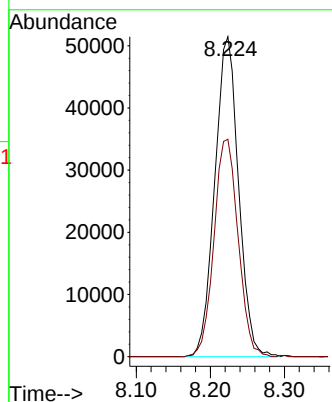
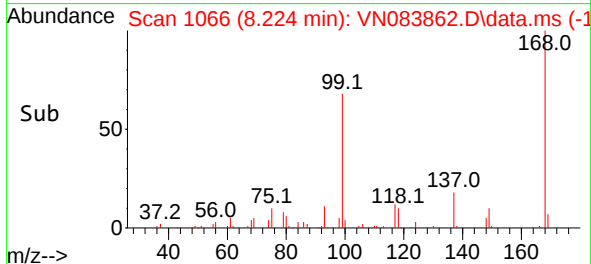


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN083862.D  
Acq: 13 Sep 2024 08:36

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE104D1-20240911

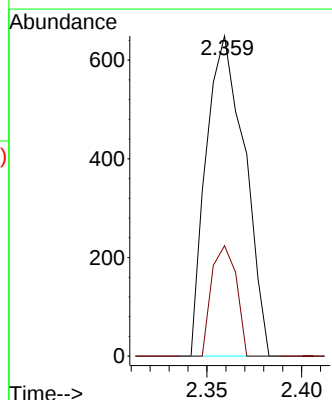
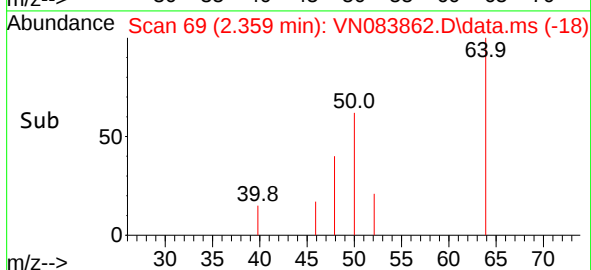
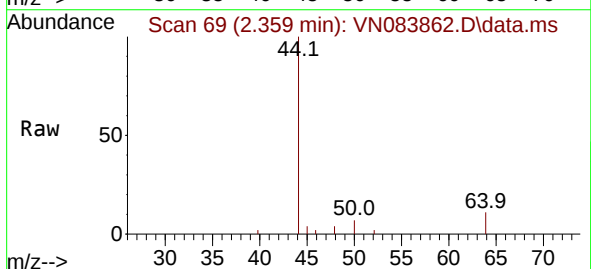


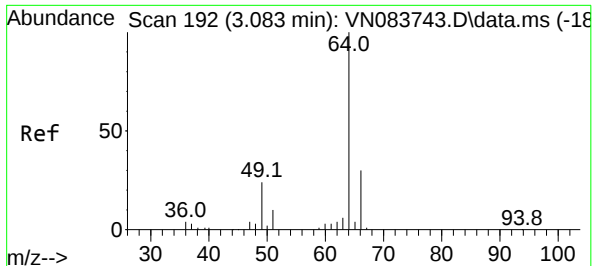
Tgt Ion:168 Resp: 114677  
Ion Ratio Lower Upper  
168 100  
99 67.9 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.359 min Scan# 69  
Delta R.T. 0.000 min  
Lab File: VN083862.D  
Acq: 13 Sep 2024 08:36

Tgt Ion: 50 Resp: 919  
Ion Ratio Lower Upper  
50 100  
52 34.5 27.2 40.8

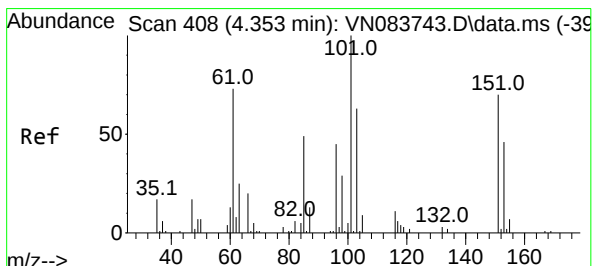
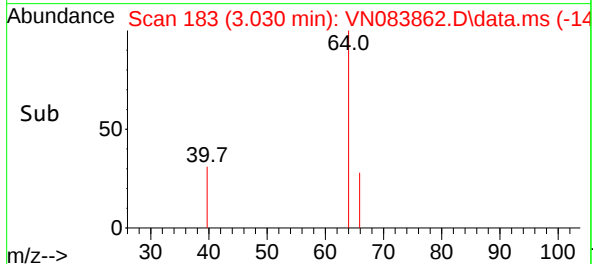
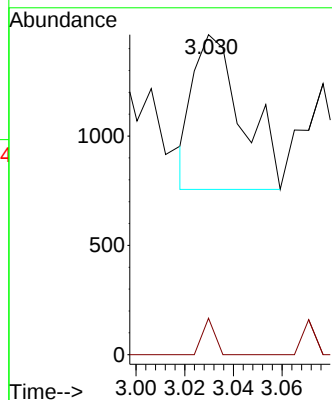
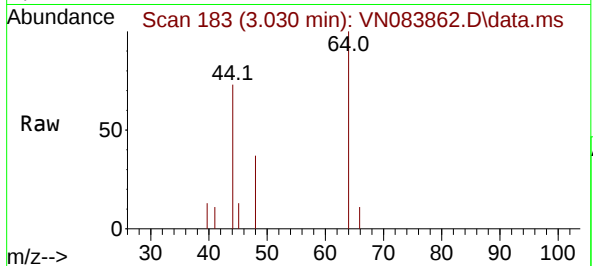




#6  
Chloroethane  
Concen: 0.965 ug/l  
RT: 3.030 min Scan# 11  
Delta R.T. -0.053 min  
Lab File: VN083862.D  
Acq: 13 Sep 2024 08:36

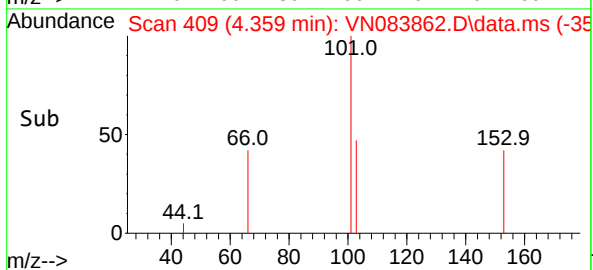
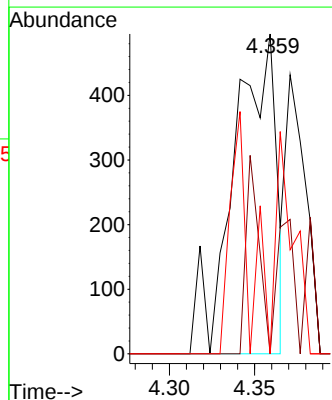
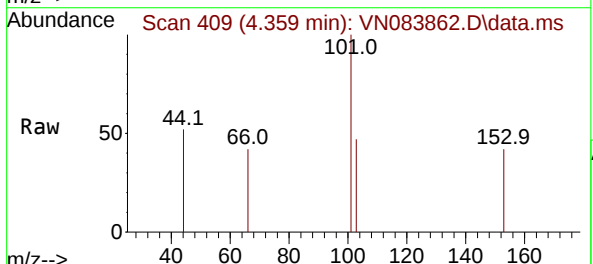
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE104D1-20240911

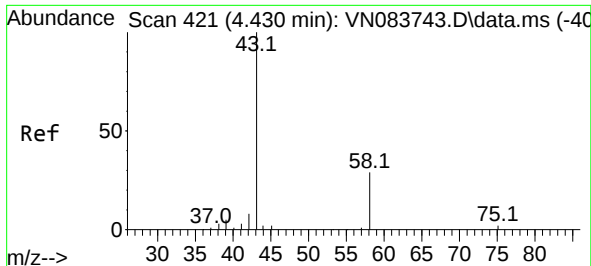
Tgt Ion: 64 Resp: 988  
Ion Ratio Lower Upper  
64 100  
66 23.6 23.9 35.9#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.656 ug/l  
RT: 4.359 min Scan# 409  
Delta R.T. 0.006 min  
Lab File: VN083862.D  
Acq: 13 Sep 2024 08:36

Tgt Ion:101 Resp: 862  
Ion Ratio Lower Upper  
101 100  
85 0.0 36.2 54.4#  
151 28.4 57.7 86.5#





#16

Acetone

Concen: 1.151 ug/l

RT: 4.430 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN083862.D

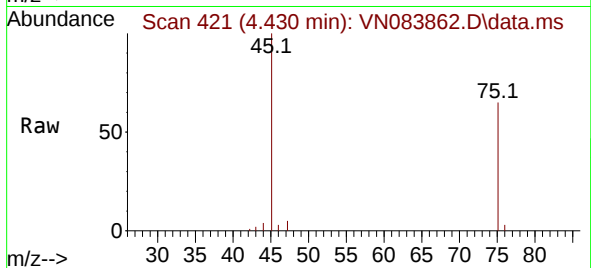
Acq: 13 Sep 2024 08:36

Instrument :

MSVOA\_N

ClientSampleId :

RE104D1-20240911

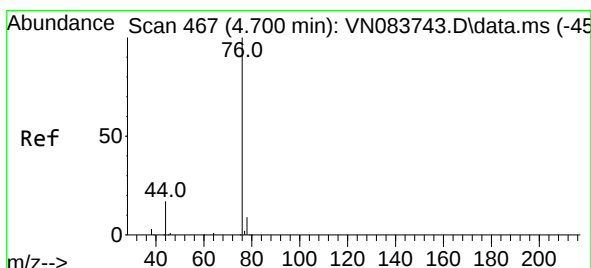
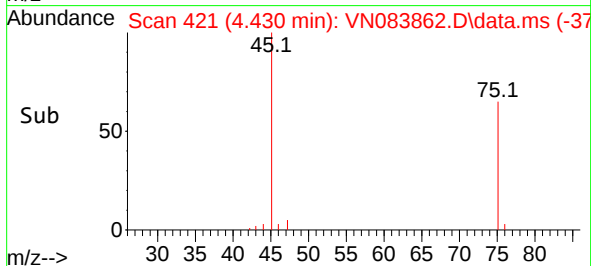
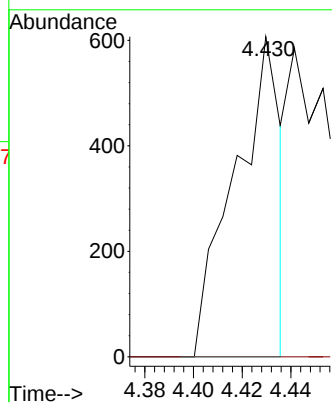


Tgt Ion: 43 Resp: 798

Ion Ratio Lower Upper

43 100

58 0.0 23.7 35.5#



#17

Carbon Disulfide

Concen: 0.546 ug/l

RT: 4.436 min Scan# 422

Delta R.T. -0.265 min

Lab File: VN083862.D

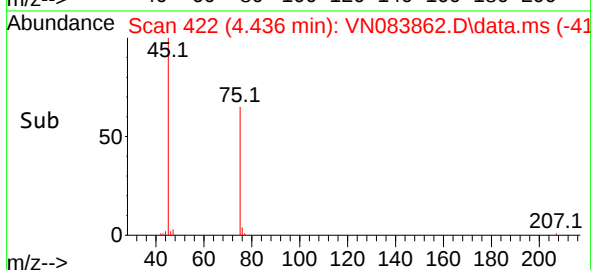
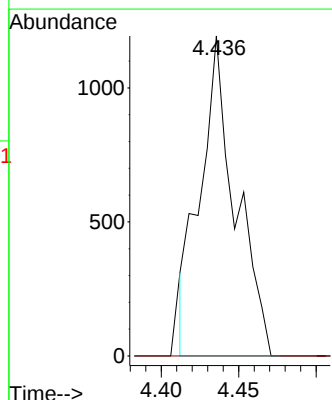
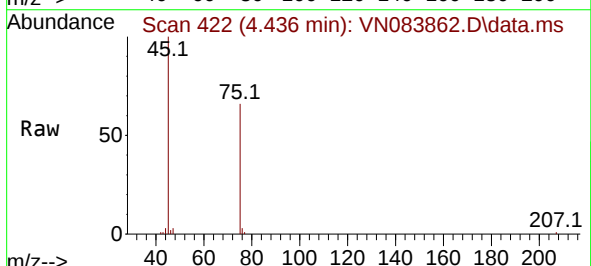
Acq: 13 Sep 2024 08:36

Tgt Ion: 76 Resp: 1895

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#





#18

Methyl Acetate

Concen: Below Cal

RT: 5.024 min Scan# 51

Delta R.T. -0.000 min

Lab File: VN083862.D

Acq: 13 Sep 2024 08:36

Instrument :

MSVOA\_N

ClientSampleId :

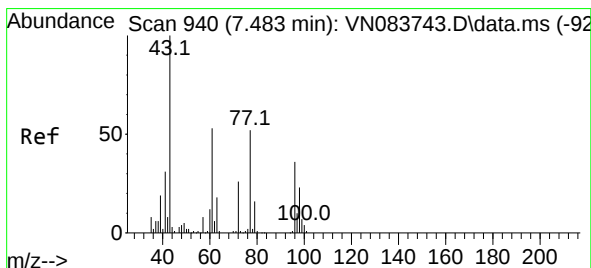
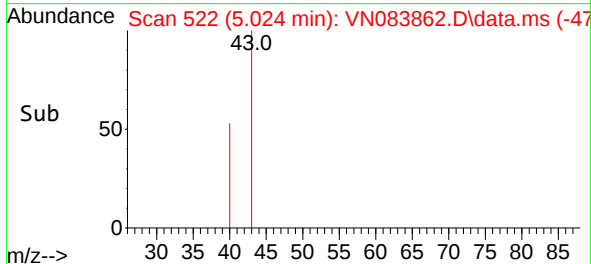
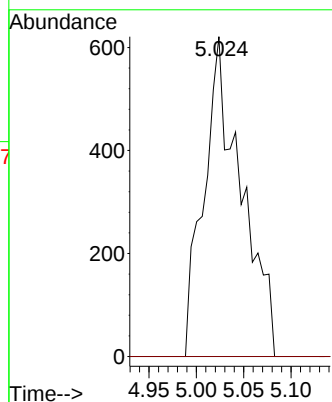
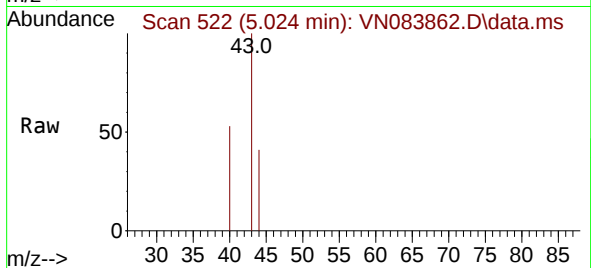
RE104D1-20240911

Tgt Ion: 43 Resp: 1695

Ion Ratio Lower Upper

43 100

74 0.0 19.0 28.4#



#27

cis-1,2-Dichloroethene

Concen: 0.210 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN083862.D

Acq: 13 Sep 2024 08:36

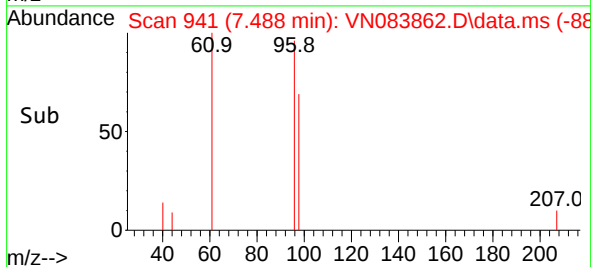
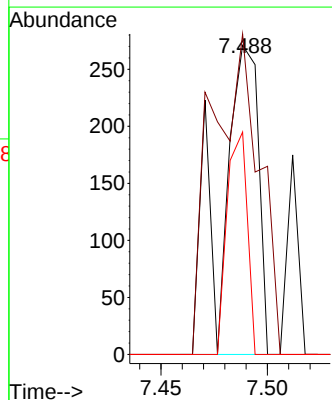
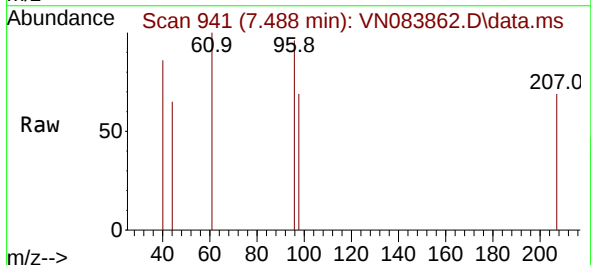
Tgt Ion: 96 Resp: 331

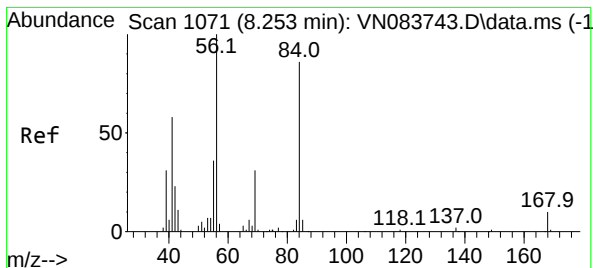
Ion Ratio Lower Upper

96 100

61 130.8 0.0 306.2

98 39.0 0.0 128.6





#31

Cyclohexane

Concen: 1.312 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN083862.D

Acq: 13 Sep 2024 08:36

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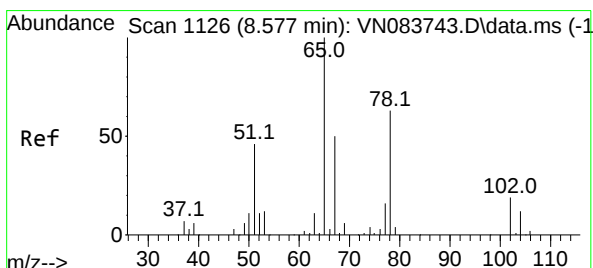
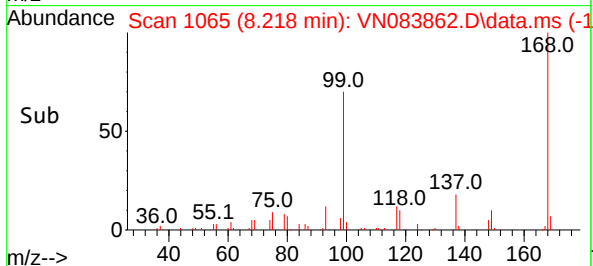
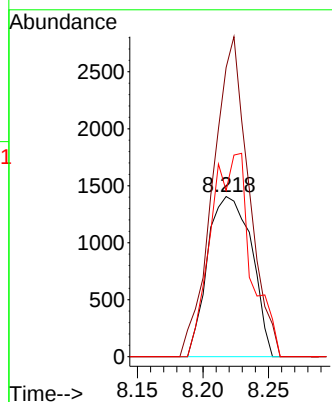
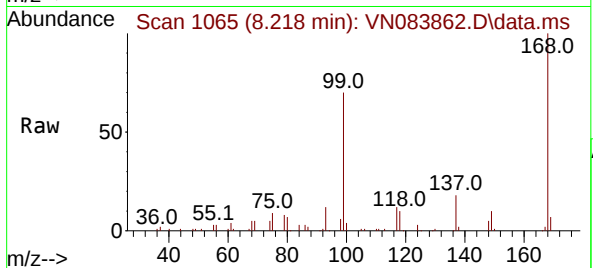
Tgt Ion: 56 Resp: 3278

Ion Ratio Lower Upper

56 100

69 180.6 26.9 40.3#

84 103.8 69.2 103.8



#33

1,2-Dichloroethane-d4

Concen: 55.077 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN083862.D

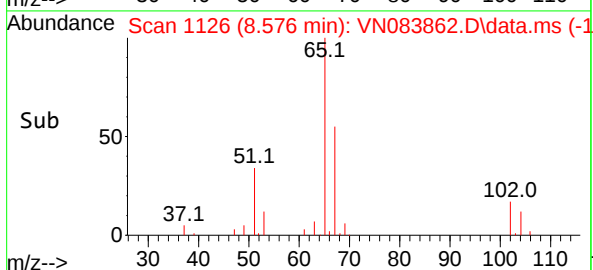
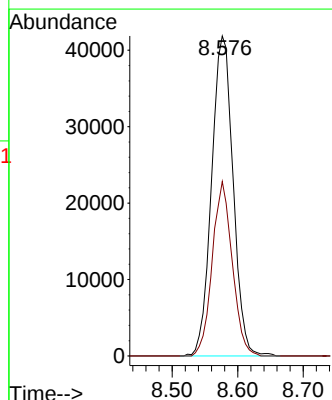
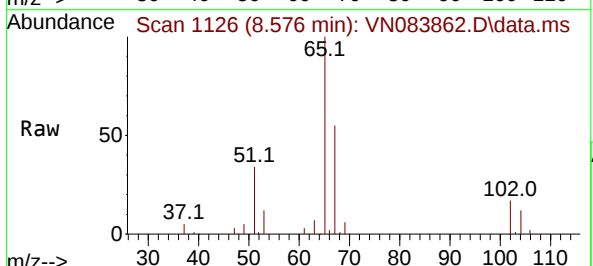
Acq: 13 Sep 2024 08:36

Tgt Ion: 65 Resp: 95238

Ion Ratio Lower Upper

65 100

67 50.7 0.0 100.8

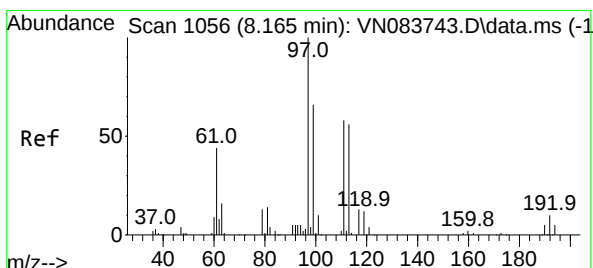
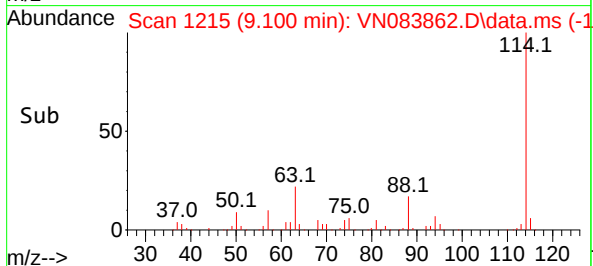
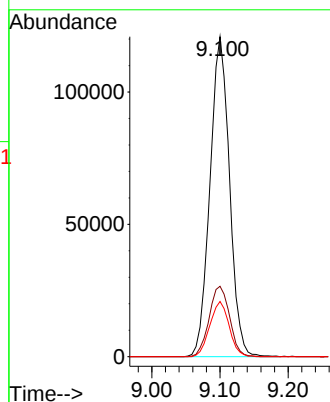
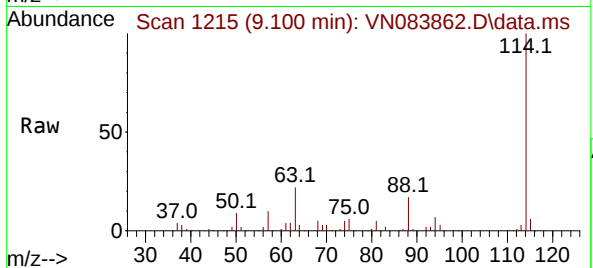




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.100 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN083862.D  
Acq: 13 Sep 2024 08:36

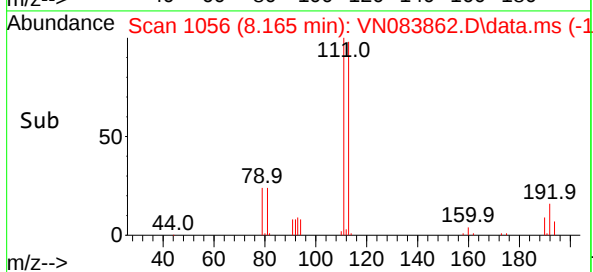
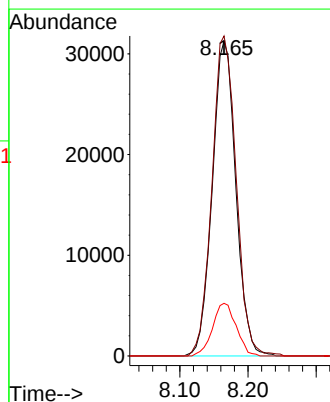
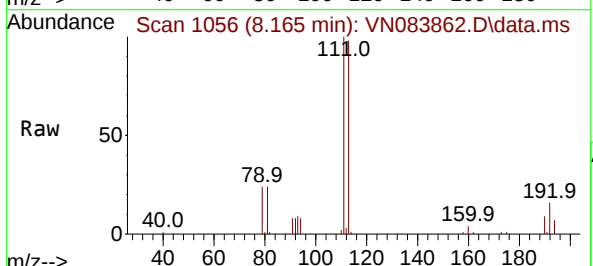
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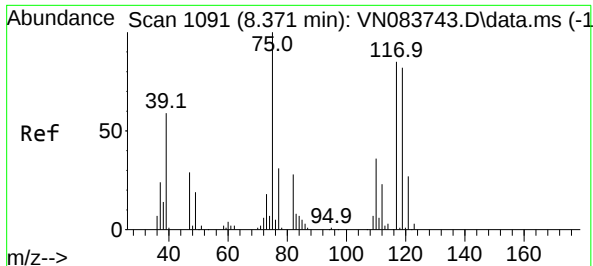
Tgt Ion:114 Resp: 241310  
Ion Ratio Lower Upper  
114 100  
63 22.0 0.0 43.4  
88 17.3 0.0 32.6



#35  
Dibromofluoromethane  
Concen: 48.642 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. -0.000 min  
Lab File: VN083862.D  
Acq: 13 Sep 2024 08:36

Tgt Ion:113 Resp: 75144  
Ion Ratio Lower Upper  
113 100  
111 104.4 82.6 124.0  
192 16.8 14.3 21.5





#36

1,1-Dichloropropene

Concen: 4.603 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN083862.D

Acq: 13 Sep 2024 08:36

Instrument :

MSVOA\_N

ClientSampleId :

RE104D1-20240911

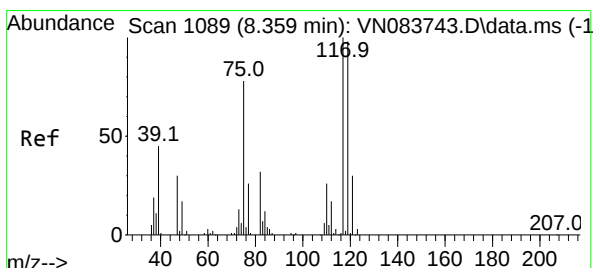
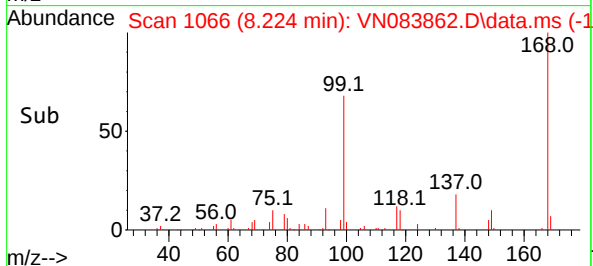
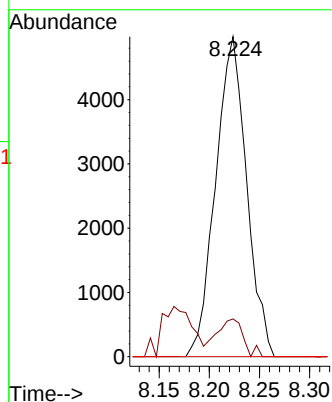
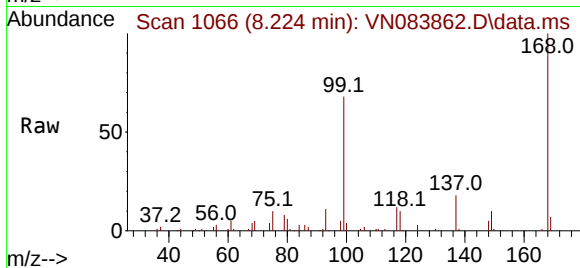
Tgt Ion: 75 Resp: 10703

Ion Ratio Lower Upper

75 100

110 10.3 16.7 50.1#

77 0.0 25.2 37.8#



#38

Carbon Tetrachloride

Concen: 5.009 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN083862.D

Acq: 13 Sep 2024 08:36

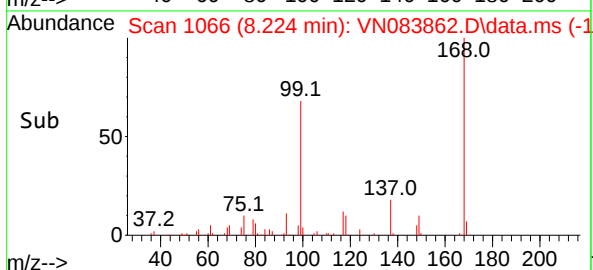
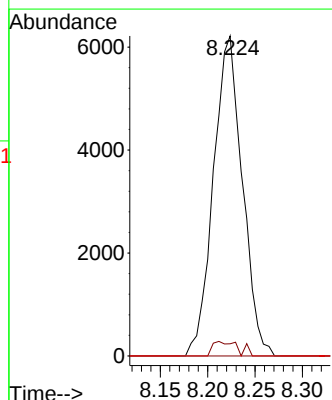
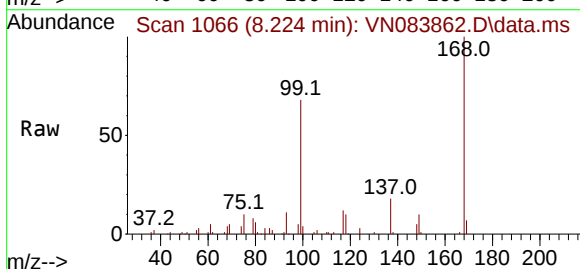
Tgt Ion: 117 Resp: 13214

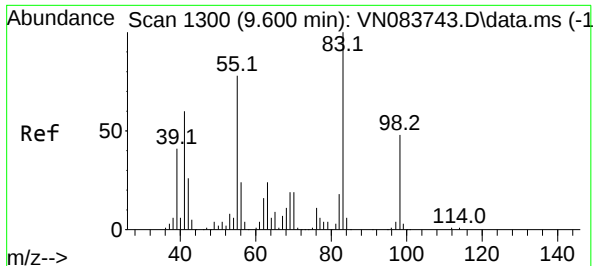
Ion Ratio Lower Upper

117 100

119 3.8 76.1 114.1#

121 0.0 24.1 36.1#





#39

Methylcyclohexane

Concen: 0.237 ug/l

RT: 9.347 min Scan# 1125

Delta R.T. -0.253 min

Lab File: VN083862.D

Acq: 13 Sep 2024 08:36

Instrument :

MSVOA\_N

ClientSampleId :

RE104D1-20240911

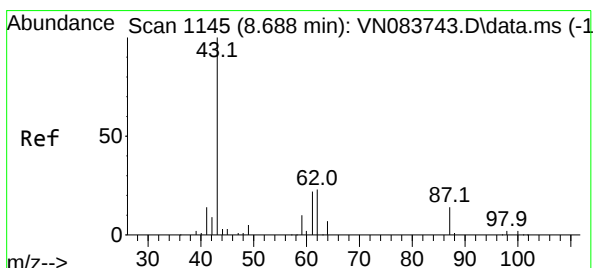
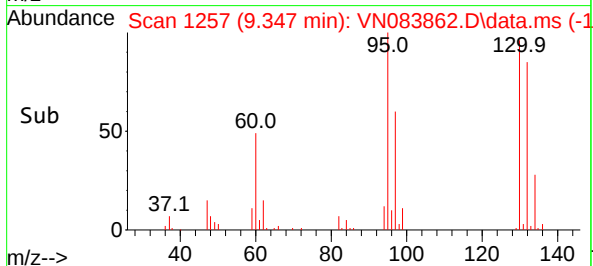
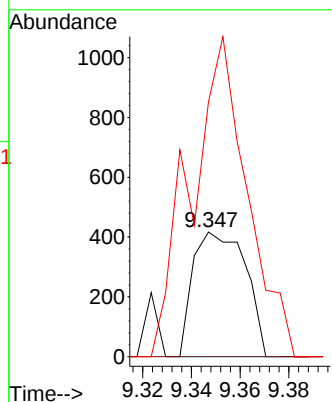
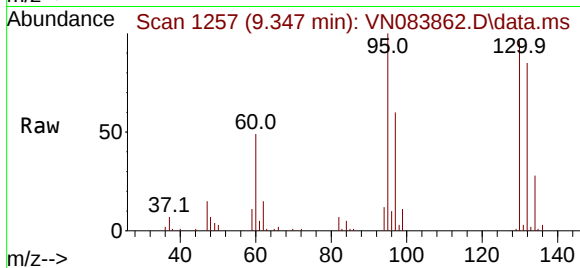
Tgt Ion: 83 Resp: 626

Ion Ratio Lower Upper

83 100

55 0.0 62.2 93.4#

98 153.5 37.6 56.4#



#43

Isopropyl Acetate

Concen: 0.284 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN083862.D

Acq: 13 Sep 2024 08:36

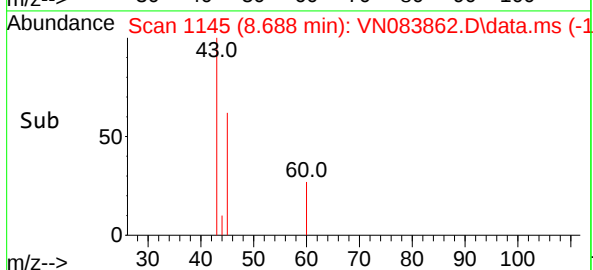
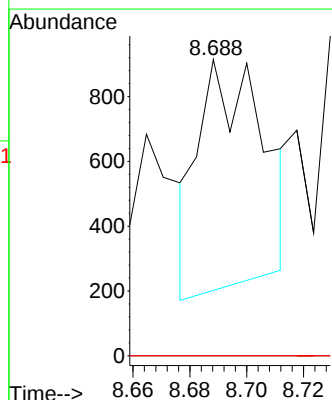
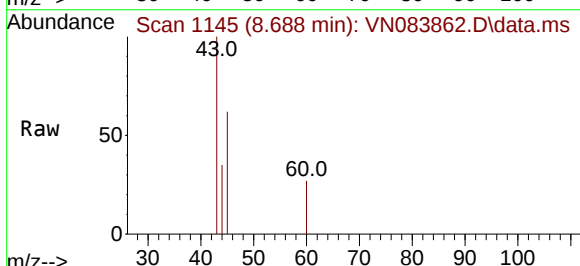
Tgt Ion: 43 Resp: 1088

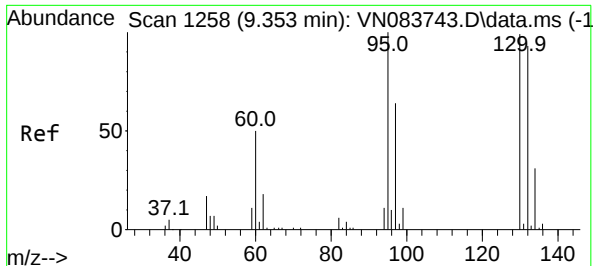
Ion Ratio Lower Upper

43 100

61 0.0 19.4 29.0#

87 0.0 9.8 14.6#

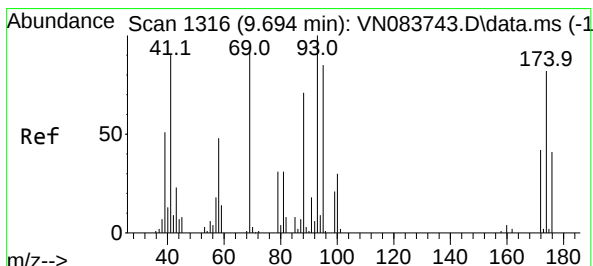
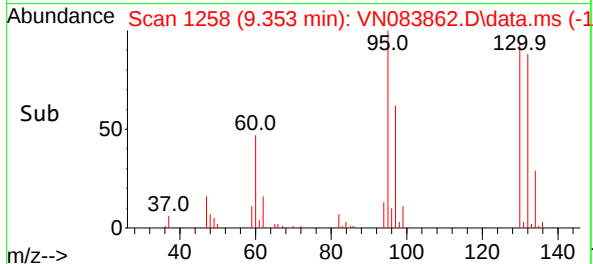
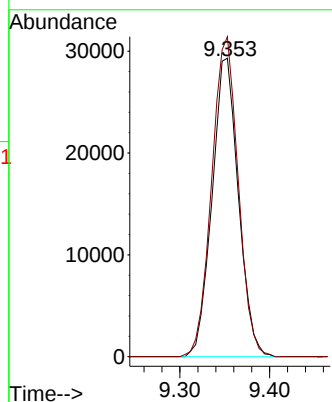
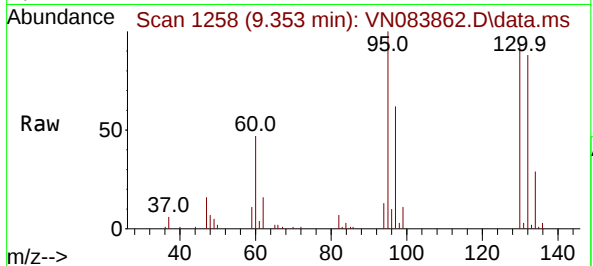




#44  
Trichloroethene  
Concen: 36.880 ug/l  
RT: 9.353 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN083862.D  
Acq: 13 Sep 2024 08:36

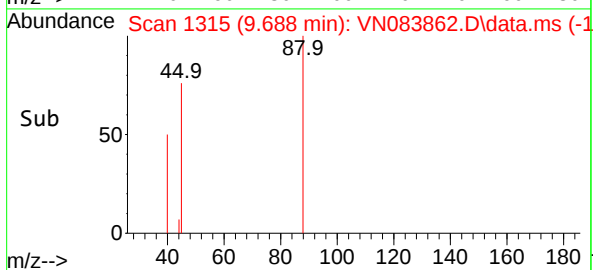
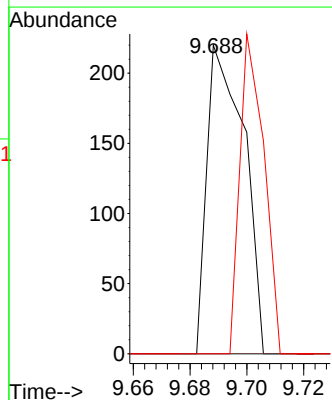
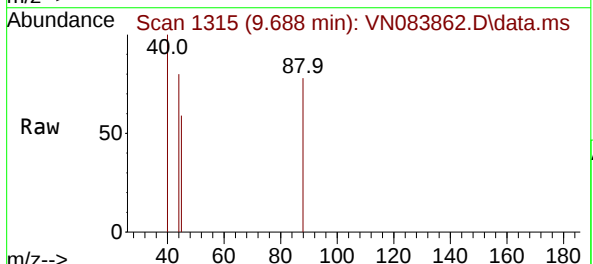
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE104D1-20240911

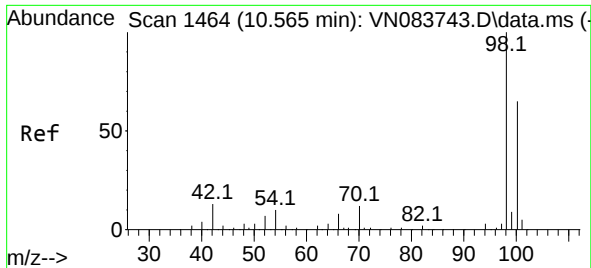
Tgt Ion:130 Resp: 59771  
Ion Ratio Lower Upper  
130 100  
95 107.2 0.0 200.4



#49  
1,4-Dioxane  
Concen: 6.666 ug/l  
RT: 9.688 min Scan# 1315  
Delta R.T. -0.006 min  
Lab File: VN083862.D  
Acq: 13 Sep 2024 08:36

Tgt Ion: 88 Resp: 199  
Ion Ratio Lower Upper  
88 100  
43 0.0 0.0 0.0  
58 67.3 57.1 85.7

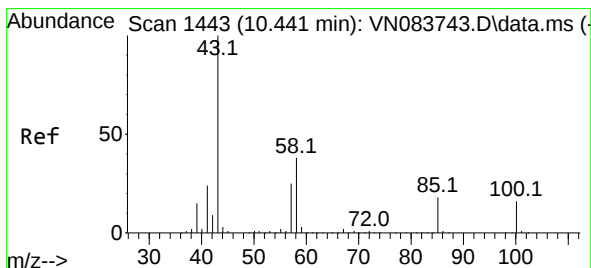
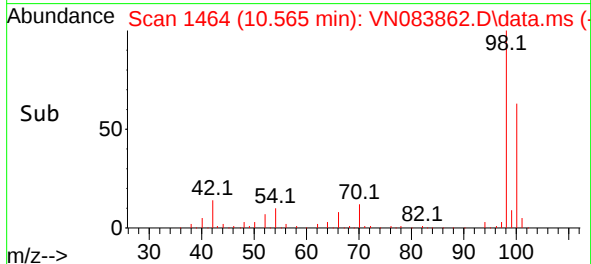
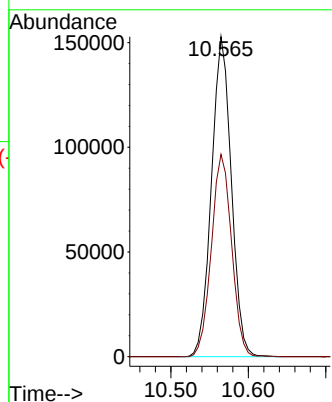
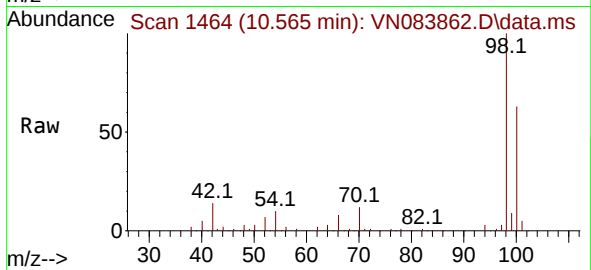




#50  
Toluene-d8  
Concen: 50.872 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN083862.D  
Acq: 13 Sep 2024 08:36

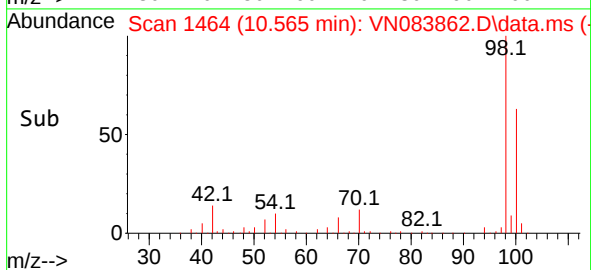
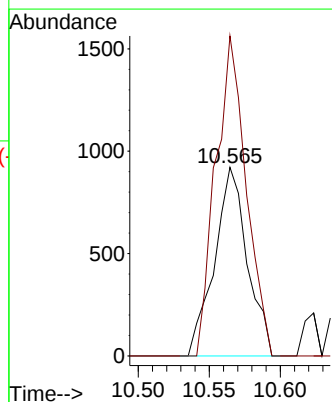
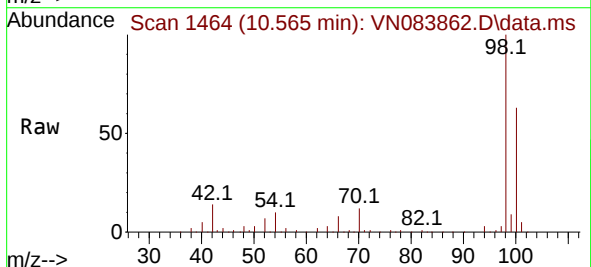
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE104D1-20240911

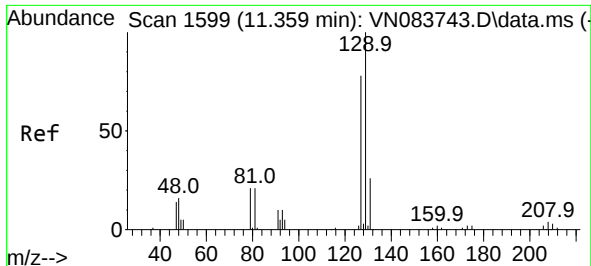
Tgt Ion: 98 Resp: 271688  
Ion Ratio Lower Upper  
98 100  
100 64.4 52.0 78.0



#51  
4-Methyl-2-Pentanone  
Concen: 0.710 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.123 min  
Lab File: VN083862.D  
Acq: 13 Sep 2024 08:36

Tgt Ion: 43 Resp: 1479  
Ion Ratio Lower Upper  
43 100  
58 158.1 31.6 47.4#

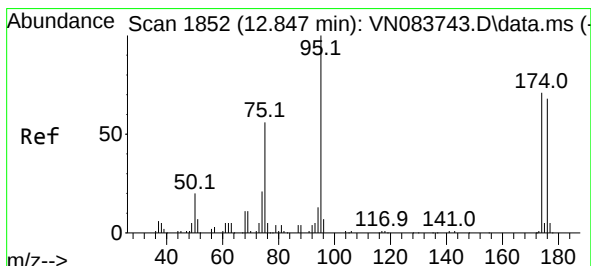
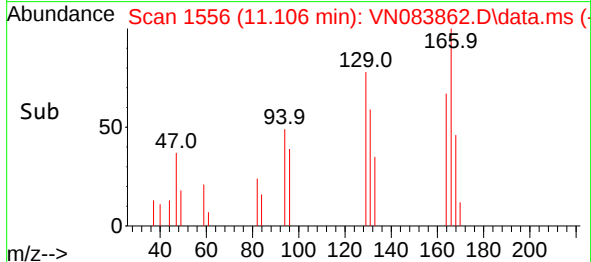
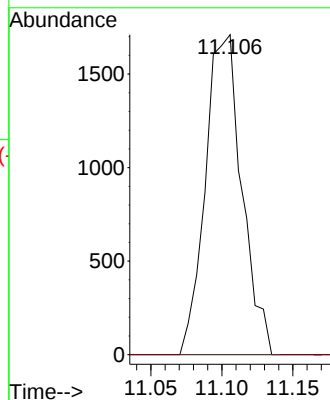
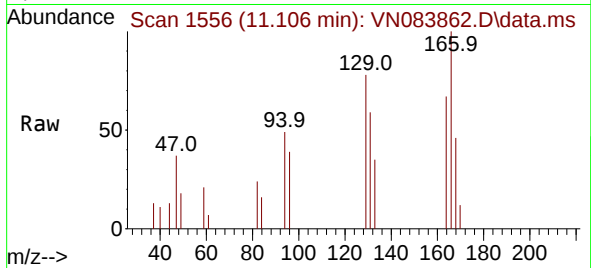




#60  
Dibromochloromethane  
Concen: 1.707 ug/l  
RT: 11.106 min Scan# 11  
Delta R.T. -0.253 min  
Lab File: VN083862.D  
Acq: 13 Sep 2024 08:36

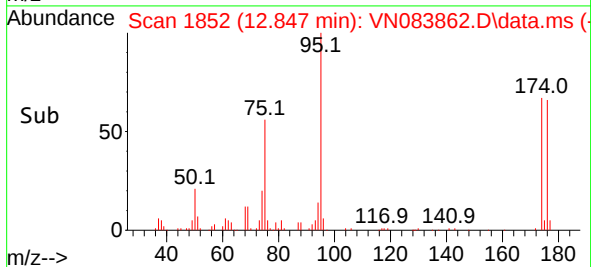
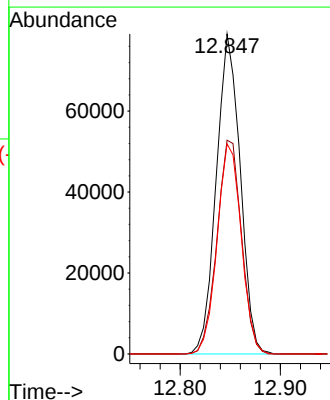
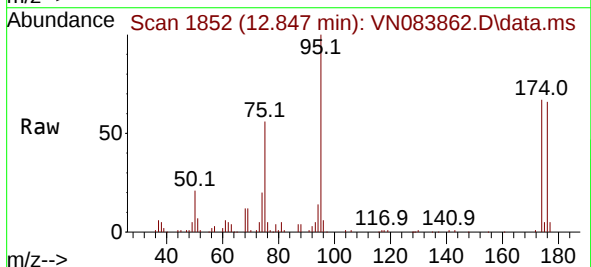
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE104D1-20240911

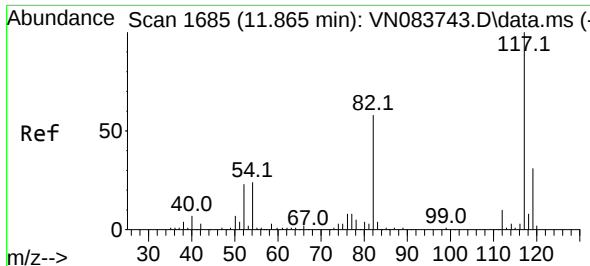
Tgt Ion:129 Resp: 3053  
Ion Ratio Lower Upper  
129 100  
127 0.0 39.0 116.9#



#62  
4-Bromofluorobenzene  
Concen: 59.425 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN083862.D  
Acq: 13 Sep 2024 08:36

Tgt Ion: 95 Resp: 130936  
Ion Ratio Lower Upper  
95 100  
174 68.4 0.0 139.8  
176 66.1 0.0 131.4

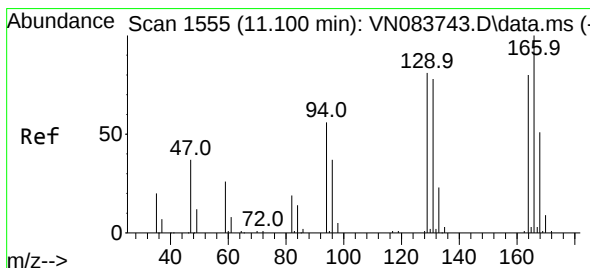
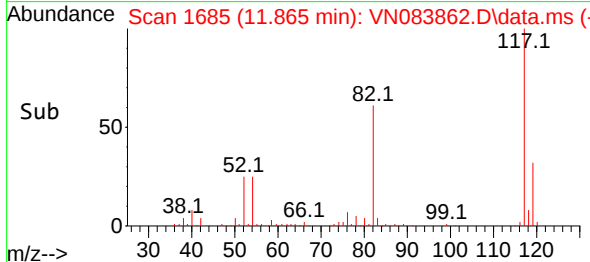
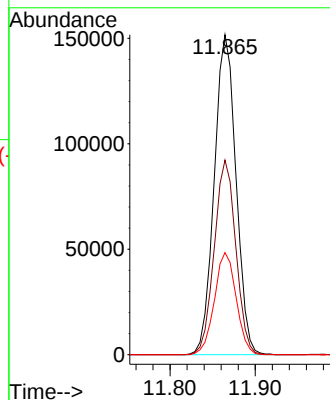
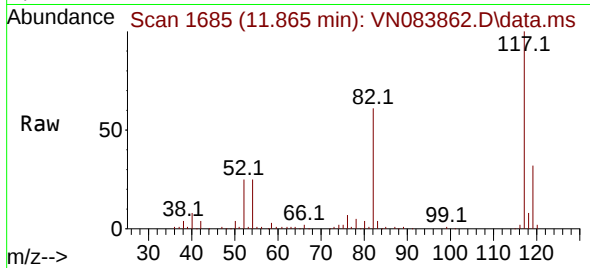




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN083862.D  
Acq: 13 Sep 2024 08:36

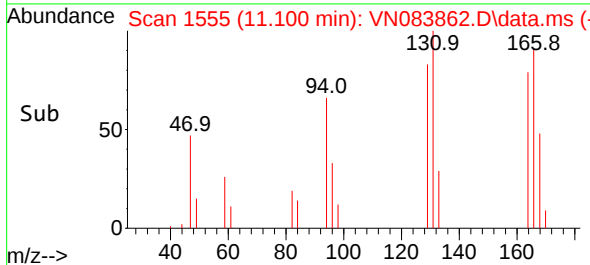
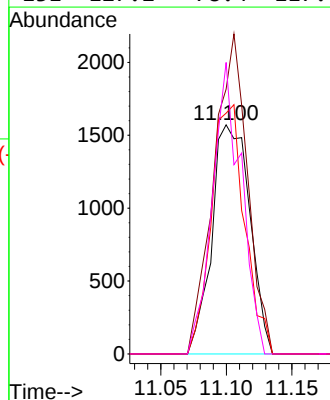
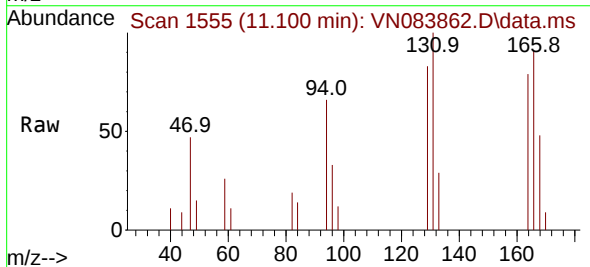
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE104D1-20240911

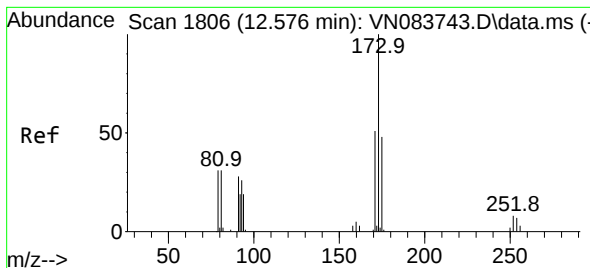
Tgt Ion:117 Resp: 269120  
Ion Ratio Lower Upper  
117 100  
82 60.8 47.4 71.0  
119 31.9 26.3 39.5



#64  
Tetrachloroethene  
Concen: 1.763 ug/l  
RT: 11.100 min Scan# 1555  
Delta R.T. -0.000 min  
Lab File: VN083862.D  
Acq: 13 Sep 2024 08:36

Tgt Ion:164 Resp: 3155  
Ion Ratio Lower Upper  
164 100  
166 115.5 103.7 155.5  
129 105.1 79.9 119.9  
131 127.2 78.4 117.6#





#71

Bromoform

Concen: 0.252 ug/l

RT: 12.841 min Scan# 1806

Delta R.T. 0.265 min

Lab File: VN083862.D

Acq: 13 Sep 2024 08:36

Instrument :

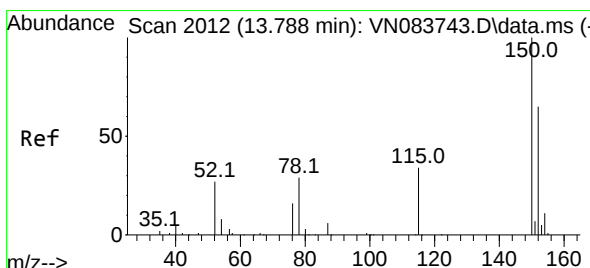
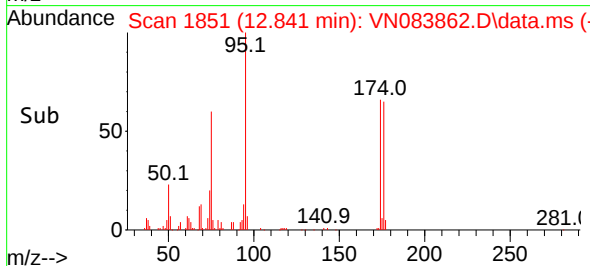
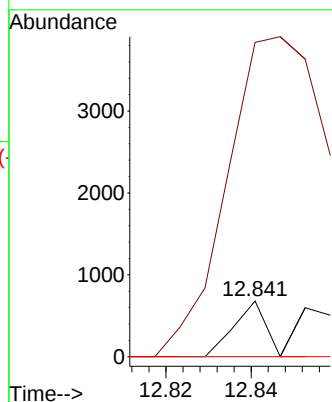
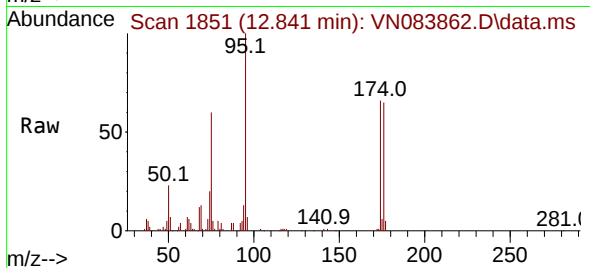
MSVOA\_N

ClientSampleId :

RE104D1-20240911

Tgt Ion:173 Resp: 352

| Ion | Ratio  | Lower | Upper |
|-----|--------|-------|-------|
| 173 | 100    |       |       |
| 175 | 1498.9 | 24.1  | 72.2# |
| 254 | 0.0    | 0.0   | 0.0   |



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

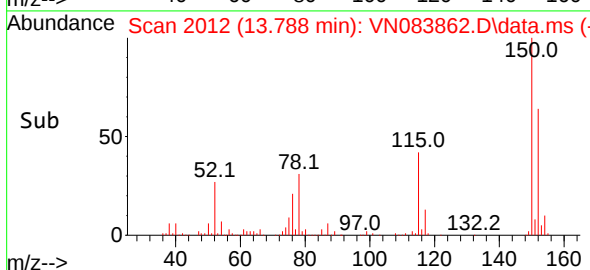
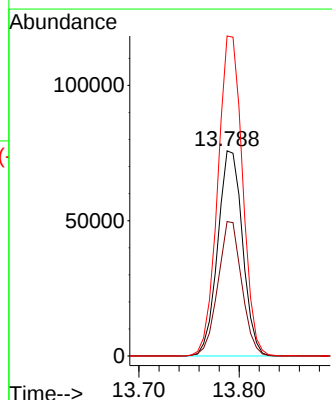
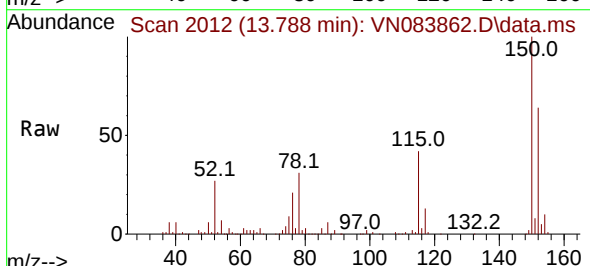
Delta R.T. -0.000 min

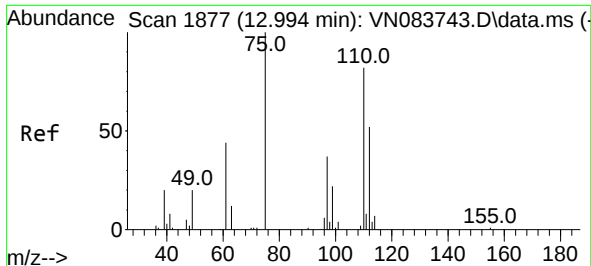
Lab File: VN083862.D

Acq: 13 Sep 2024 08:36

Tgt Ion:152 Resp: 129907

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 63.2  | 32.2  | 96.6  |
| 150 | 155.8 | 0.0   | 348.6 |

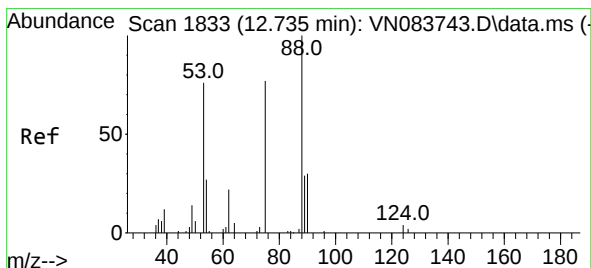
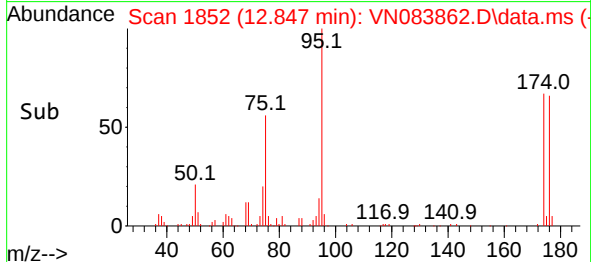
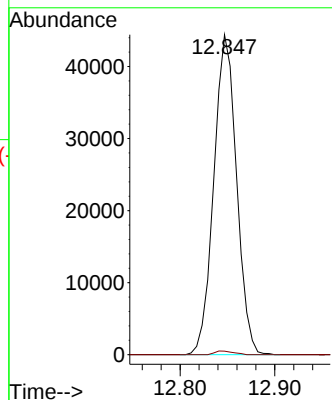
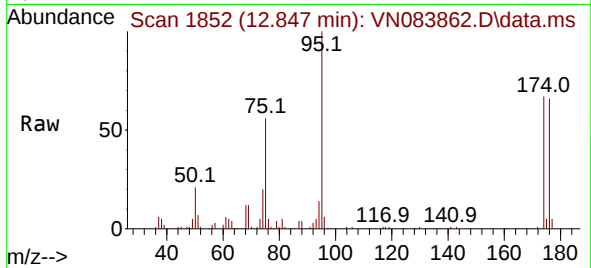




#76  
1,2,3-Trichloropropane  
Concen: 28.291 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN083862.D  
Acq: 13 Sep 2024 08:36

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE104D1-20240911

Tgt Ion: 75 Resp: 74157  
Ion Ratio Lower Upper  
75 100  
77 0.9 95.2 285.6#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 74.095 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN083862.D  
Acq: 13 Sep 2024 08:36

Tgt Ion: 75 Resp: 74157  
Ion Ratio Lower Upper  
75 100  
53 0.0 81.2 121.8#  
89 0.0 35.7 53.5#

