

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102524\  
 Data File : VN084518.D  
 Acq On : 25 Oct 2024 16:03  
 Operator : JC\MD  
 Sample : P4554-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

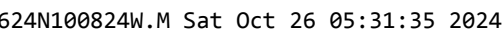
Instrument :  
 MSVOA\_N  
 ClientSampleId :

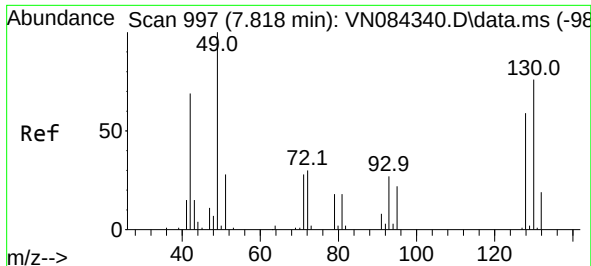
Quant Time: Oct 26 05:31:22 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N100824W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Oct 09 02:22:28 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon     | Response | Conc   | Units    | Dev(Min) |
|-----------------------------|--------|----------|----------|--------|----------|----------|
| -----                       |        |          |          |        |          |          |
| Internal Standards          |        |          |          |        |          |          |
| 1) Bromochloromethane       | 7.812  | 128      | 30444    | 30.000 | ug/l     | 0.00     |
| 28) 1,4-Difluorobenzene     | 9.100  | 114      | 149069   | 30.000 | ug/l     | 0.00     |
| 57) Chlorobenzene-d5        | 11.865 | 117      | 138801   | 30.000 | ug/l     | 0.00     |
|                             |        |          |          |        |          |          |
| System Monitoring Compounds |        |          |          |        |          |          |
| 27) 1,2-Dichloroethane-d4   | 8.577  | 65       | 74130    | 30.245 | ug/l     | 0.00     |
| Spiked Amount 30.000        | Range  | 91 - 110 | Recovery | =      | 100.800% |          |
| 60) 4-Bromofluorobenzene    | 12.847 | 95       | 57249    | 24.991 | ug/l     | 0.00     |
| Spiked Amount 30.000        | Range  | 63 - 112 | Recovery | =      | 83.300%  |          |
| 63) Toluene-d8              | 10.565 | 98       | 185282   | 28.814 | ug/l     | 0.00     |
| Spiked Amount 30.000        | Range  | 91 - 112 | Recovery | =      | 96.033%  |          |
|                             |        |          |          |        |          |          |
| Target Compounds            |        |          |          |        | Qvalue   |          |
| 3) Chloromethane            | 2.365  | 50       | 443      | 0.209  | ug/l #   | 42       |
| 15) Acetone                 | 4.430  | 58       | 5307     | 17.425 | ug/l     | 95       |
| 18) Methylene Chloride      | 5.277  | 84       | 1410     | 0.660  | ug/l #   | 84       |
| 25) Chloroform              | 7.965  | 83       | 2652     | 0.691  | ug/l     | 87       |
| 30) 2-Butanone              | 7.489  | 43       | 670      | 0.514  | ug/l #   | 55       |
| 36) 1,2-Dichloroethane      | 9.100  | 62       | 5598     | 2.192  | ug/l #   | 75       |
| 38) Methylcyclohexane       | 9.888  | 83       | 729      | 0.271  | ug/l #   | 17       |
| 41) Bromodichloromethane    | 9.888  | 83       | 729      | 0.263  | ug/l #   | 95       |
| 44) Isopropyl Acetate       | 8.694  | 43       | 870      | 0.207  | ug/l #   | 48       |
| 50) 1,1,2-Trichloroethane   | 10.577 | 97       | 6116     | 3.485  | ug/l #   | 1        |
| 51) Ethyl methacrylate      | 10.565 | 69       | 694      | 0.239  | ug/l #   | 72       |
| 53) Dibromochloromethane    | 11.365 | 129      | 740      | 0.357  | ug/l     | 62       |
| 58) 4-Methyl-2-Pentanone    | 10.441 | 43       | 3607     | 1.395  | ug/l     | 94       |
| 72) 1,2,3-Trichloropropane  | 12.847 | 75       | 30525    | 13.981 | ug/l     | 1        |
| 77) t-1,4-Dichloro-2-butene | 12.847 | 75       | 30525    | 32.718 | ug/l #   | 12       |
| -----                       |        |          |          |        |          |          |

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

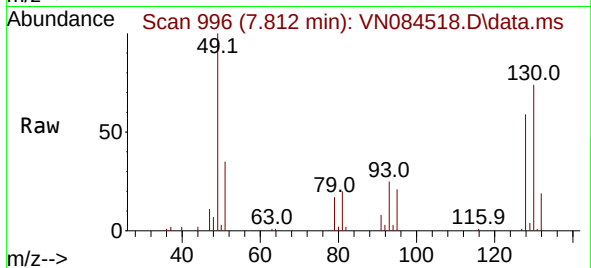
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N100824W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Oct 09 02:22:28 2024  
Response via : Initial Calibration



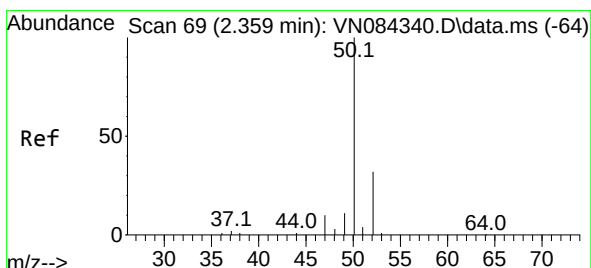
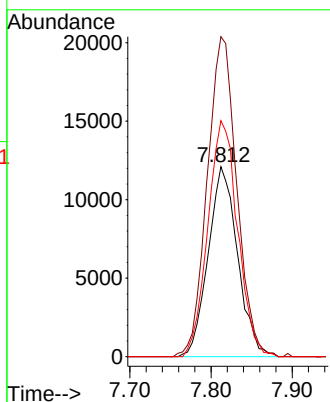
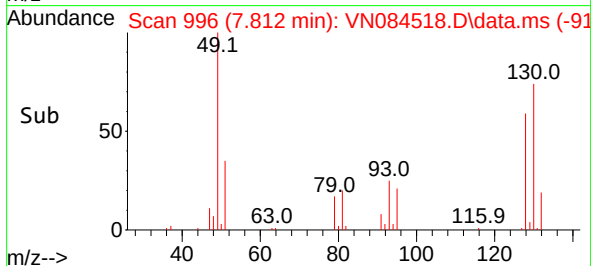


#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.812 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VN084518.D  
Acq: 25 Oct 2024 16:03

Instrument :  
MSVOA\_N  
ClientSampleId :

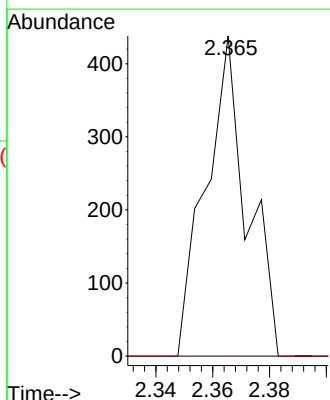
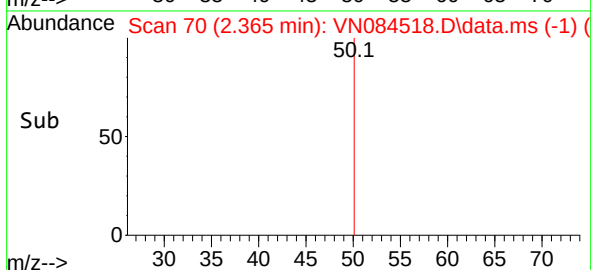
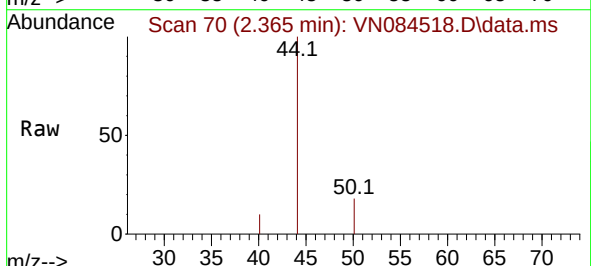


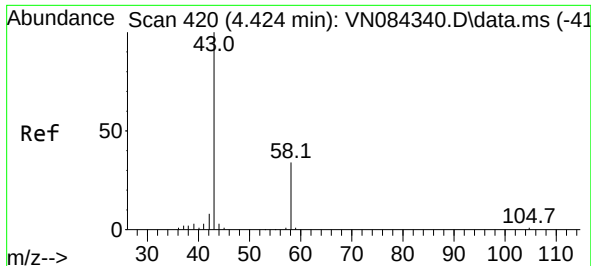
Tgt Ion:128 Resp: 30444  
Ion Ratio Lower Upper  
128 100  
49 169.1 0.0 430.0  
130 126.2 0.0 329.8



#3  
Chloromethane  
Concen: 0.209 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN084518.D  
Acq: 25 Oct 2024 16:03

Tgt Ion: 50 Resp: 443  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.8 38.6#





#15

Acetone

Concen: 17.425 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN084518.D

Acq: 25 Oct 2024 16:03

Instrument :

MSVOA\_N

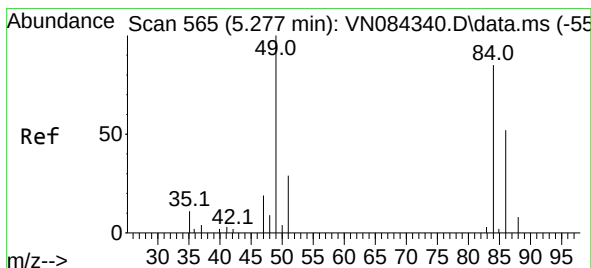
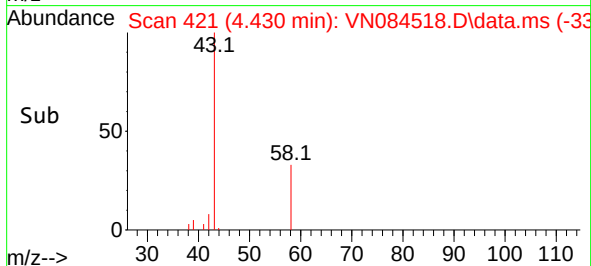
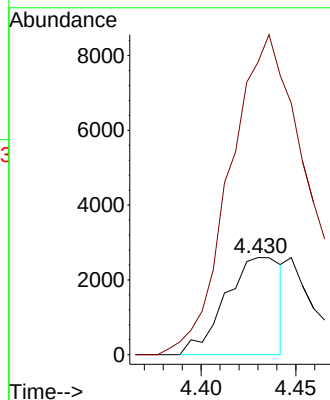
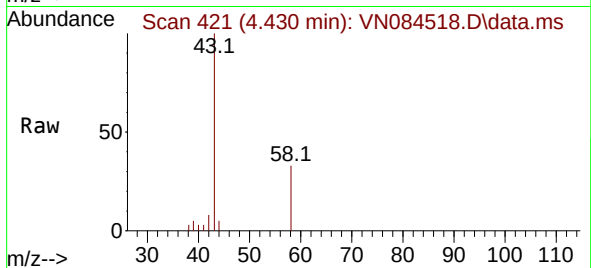
ClientSampleId :

Tgt Ion: 58 Resp: 5307

Ion Ratio Lower Upper

58 100

43 287.7 237.5 356.3



#18

Methylene Chloride

Concen: 0.660 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.000 min

Lab File: VN084518.D

Acq: 25 Oct 2024 16:03

Tgt Ion: 84 Resp: 1410

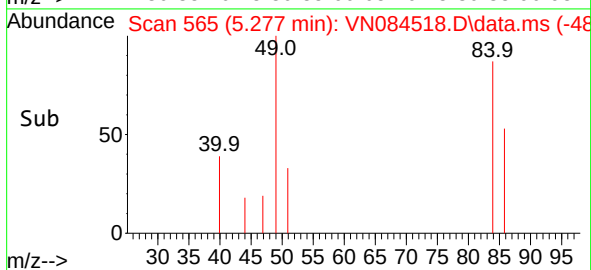
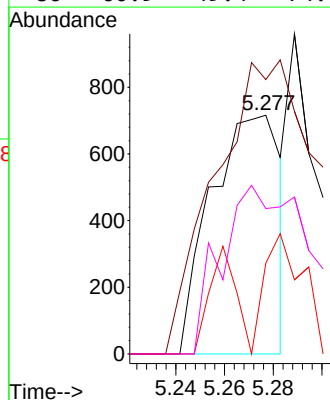
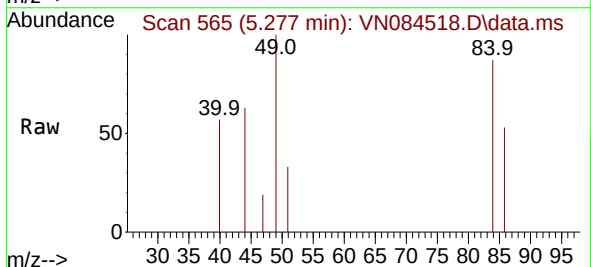
Ion Ratio Lower Upper

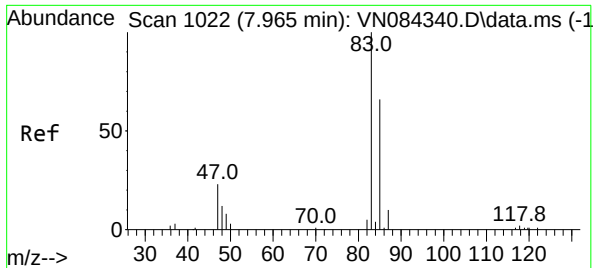
84 100

49 88.5 94.6 142.0#

51 38.0 27.3 40.9

86 60.9 49.4 74.0





#25

Chloroform

Concen: 0.691 ug/l

RT: 7.965 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VN084518.D

Acq: 25 Oct 2024 16:03

Instrument :

MSVOA\_N

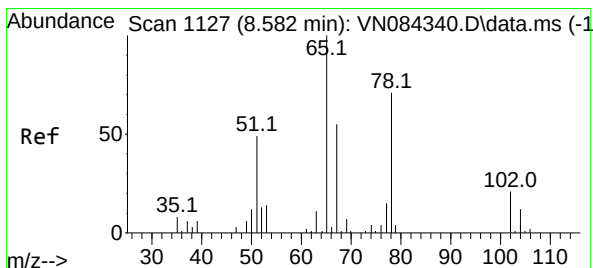
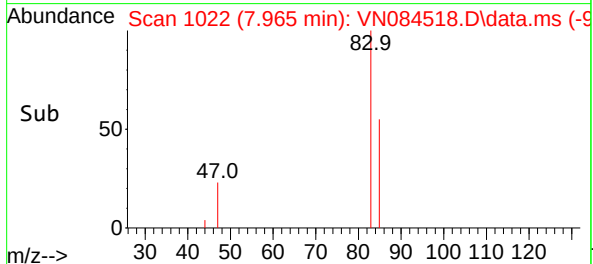
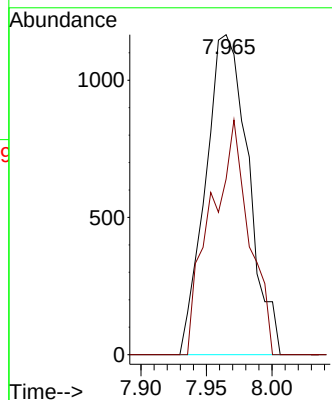
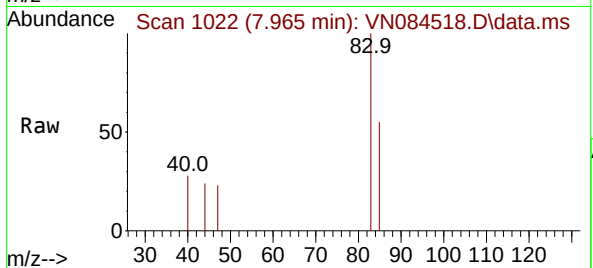
ClientSampleId :

Tgt Ion: 83 Resp: 2652

Ion Ratio Lower Upper

83 100

85 54.9 52.4 78.6



#27

1,2-Dichloroethane-d4

Concen: 30.245 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN084518.D

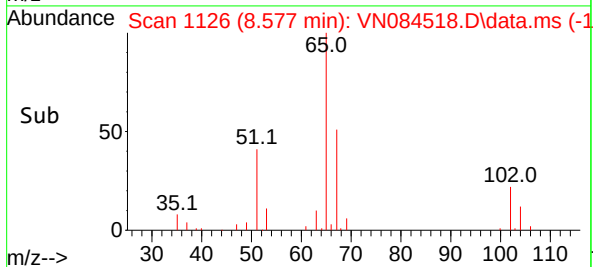
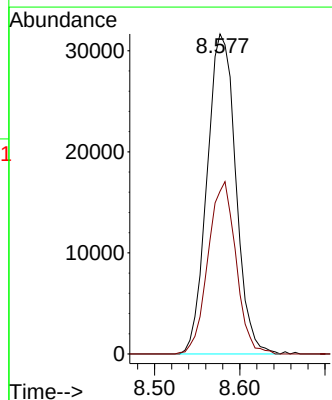
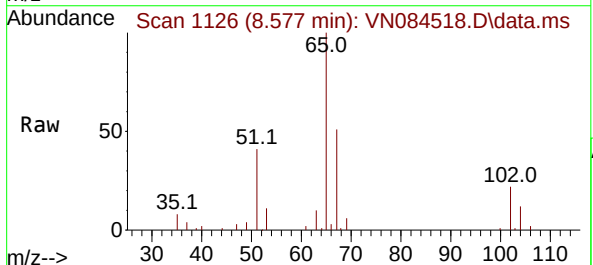
Acq: 25 Oct 2024 16:03

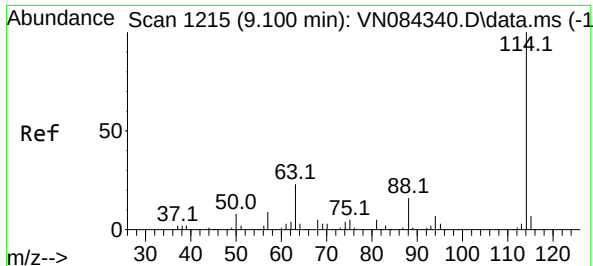
Tgt Ion: 65 Resp: 74130

Ion Ratio Lower Upper

65 100

67 52.3 41.5 62.3

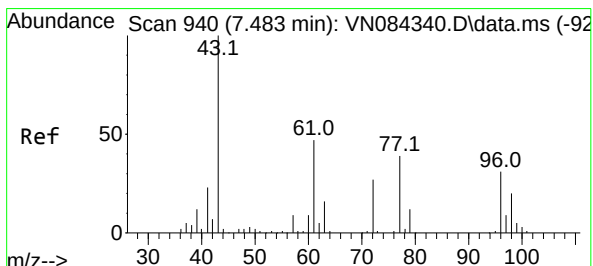
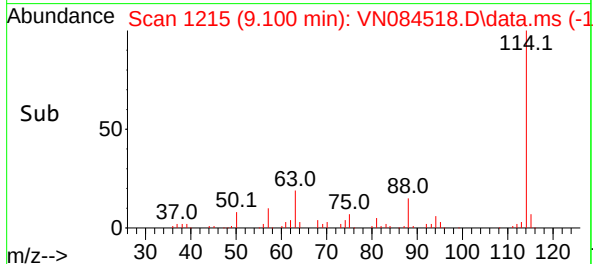
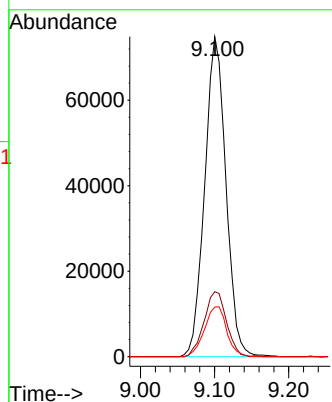
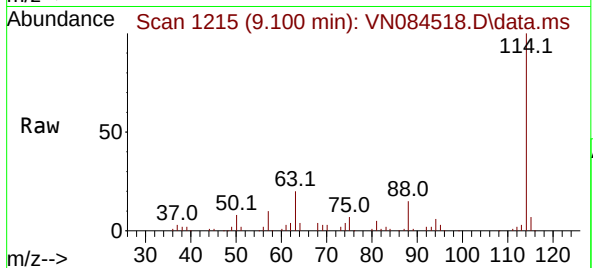




#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.100 min Scan# 114  
Delta R.T. 0.000 min  
Lab File: VN084518.D  
Acq: 25 Oct 2024 16:03

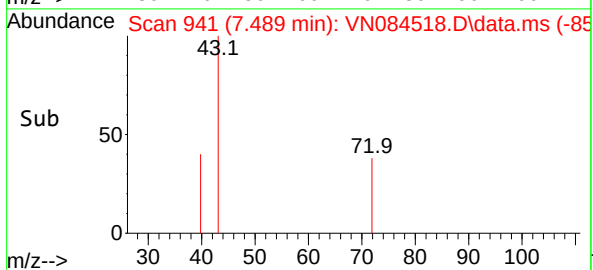
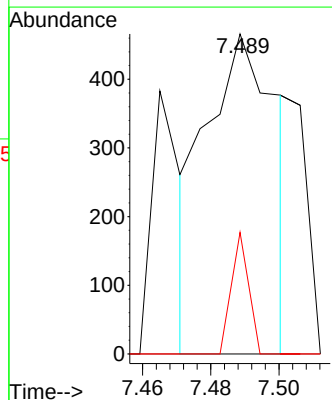
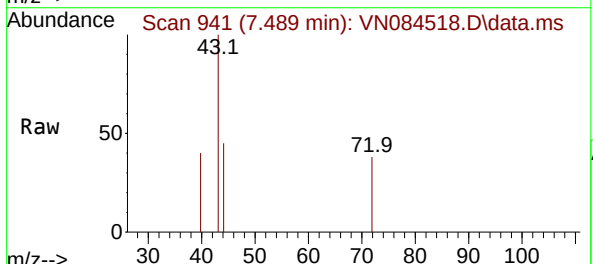
Instrument :  
MSVOA\_N  
ClientSampleId :

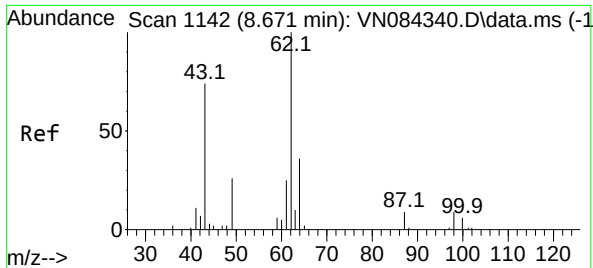
Tgt Ion:114 Resp: 149069  
Ion Ratio Lower Upper  
114 100  
63 21.4 17.4 26.0  
88 16.3 13.2 19.8



#30  
2-Butanone  
Concen: 0.514 ug/l  
RT: 7.489 min Scan# 941  
Delta R.T. 0.006 min  
Lab File: VN084518.D  
Acq: 25 Oct 2024 16:03

Tgt Ion: 43 Resp: 670  
Ion Ratio Lower Upper  
43 100  
57 0.0 6.6 9.8#  
72 0.0 21.3 31.9#

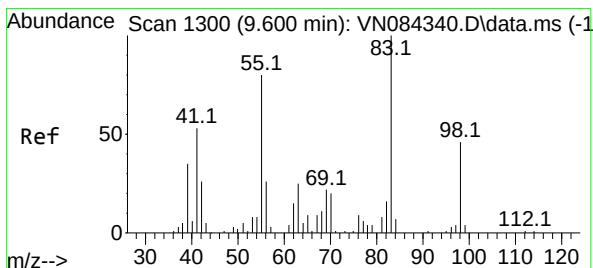
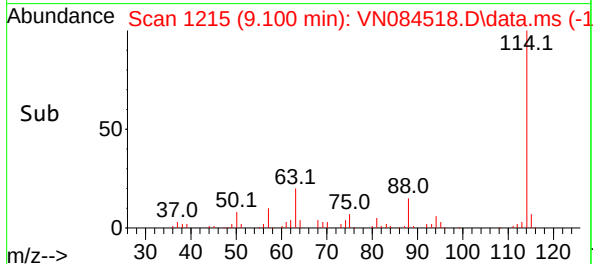
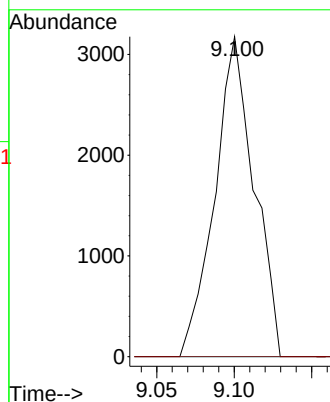
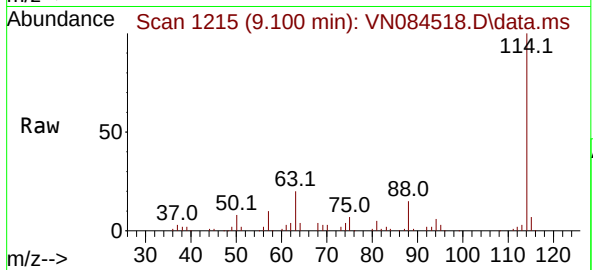




#36  
1,2-Dichloroethane  
Concen: 2.192 ug/l  
RT: 9.100 min Scan# 1142  
Delta R.T. 0.430 min  
Lab File: VN084518.D  
Acq: 25 Oct 2024 16:03

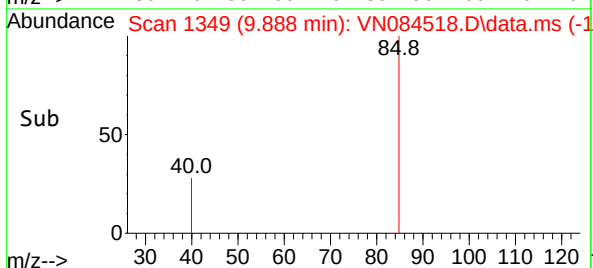
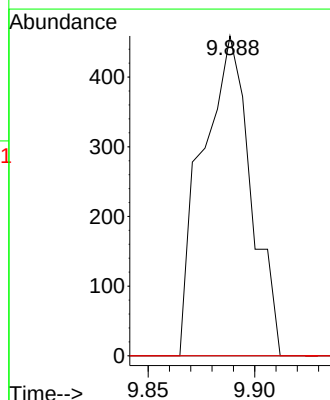
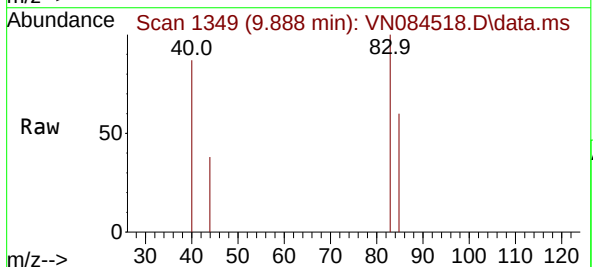
Instrument :  
MSVOA\_N  
ClientSampleId :

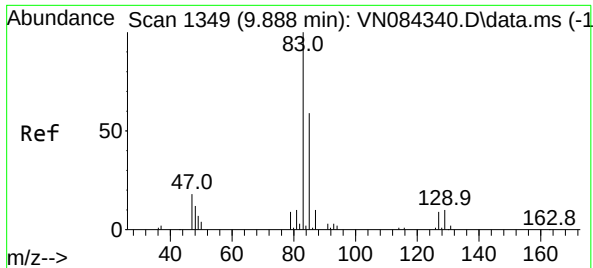
Tgt Ion: 62 Resp: 5598  
Ion Ratio Lower Upper  
62 100  
98 0.0 7.3 10.9#



#38  
Methylcyclohexane  
Concen: 0.271 ug/l  
RT: 9.888 min Scan# 1349  
Delta R.T. 0.288 min  
Lab File: VN084518.D  
Acq: 25 Oct 2024 16:03

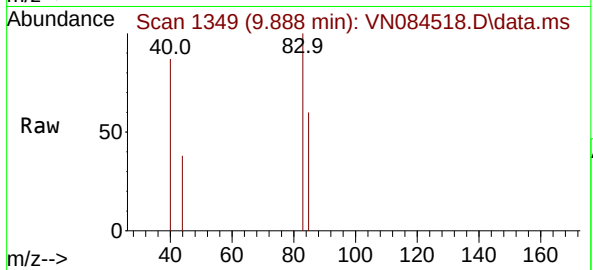
Tgt Ion: 83 Resp: 729  
Ion Ratio Lower Upper  
83 100  
55 0.0 39.3 117.8#  
98 0.0 24.0 72.0#



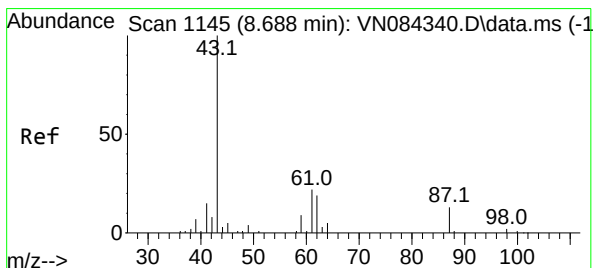
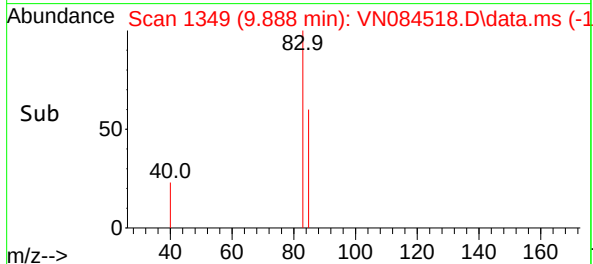
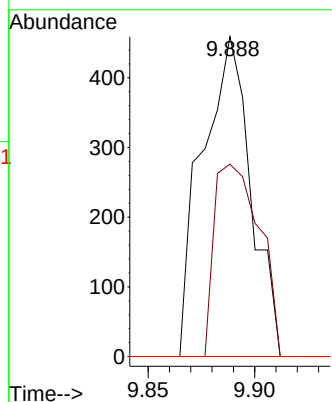


#41  
Bromodichloromethane  
Concen: 0.263 ug/l  
RT: 9.888 min Scan# 1149  
Delta R.T. 0.000 min  
Lab File: VN084518.D  
Acq: 25 Oct 2024 16:03

Instrument :  
MSVOA\_N  
ClientSampleId :

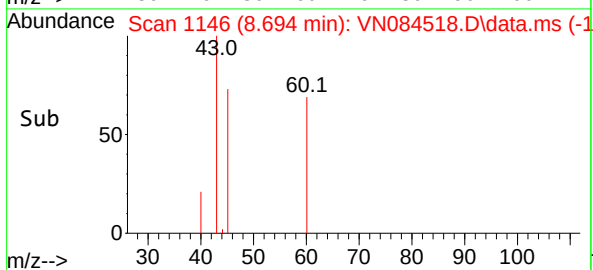
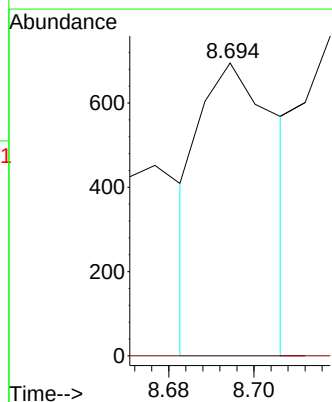
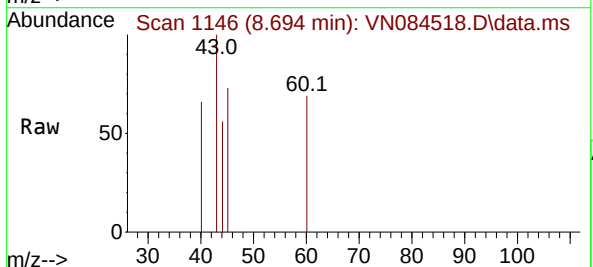


Tgt Ion: 83 Resp: 729  
Ion Ratio Lower Upper  
83 100  
85 60.1 47.1 70.7  
127 0.0 7.1 10.7#

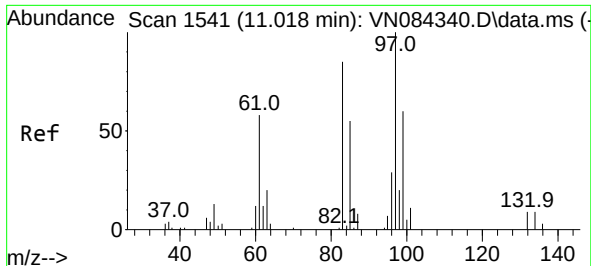


#44  
Isopropyl Acetate  
Concen: 0.207 ug/l  
RT: 8.694 min Scan# 1146  
Delta R.T. 0.006 min  
Lab File: VN084518.D  
Acq: 25 Oct 2024 16:03

Tgt Ion: 43 Resp: 870  
Ion Ratio Lower Upper  
43 100  
61 0.0 21.4 32.2#

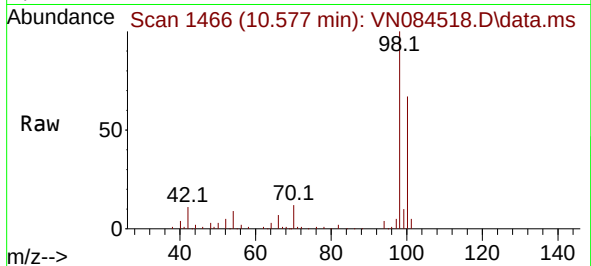




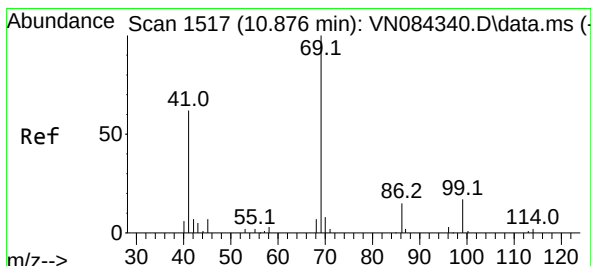
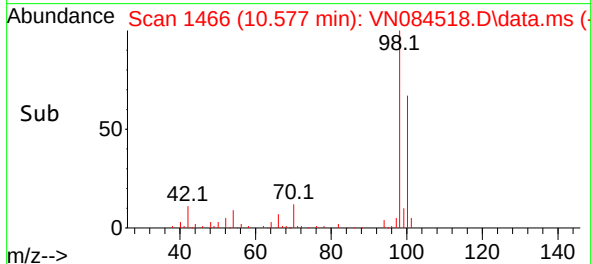
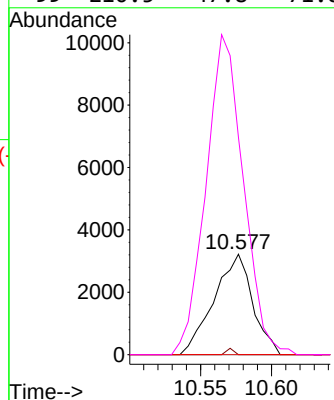


#50  
1,1,2-Trichloroethane  
Concen: 3.485 ug/l  
RT: 10.577 min Scan# 1466  
Delta R.T. -0.441 min  
Lab File: VN084518.D  
Acq: 25 Oct 2024 16:03

Instrument :  
MSVOA\_N  
ClientSampleId :

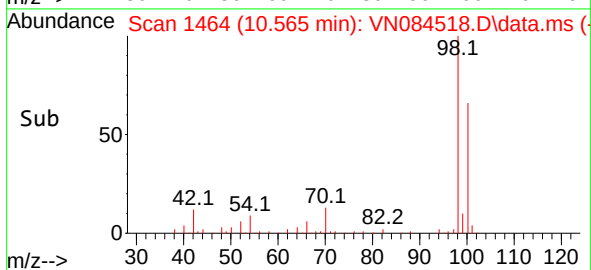
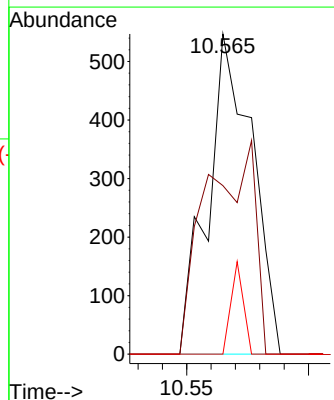
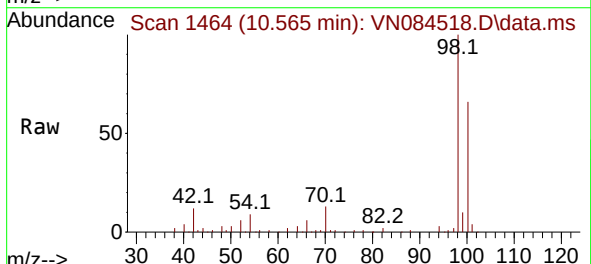


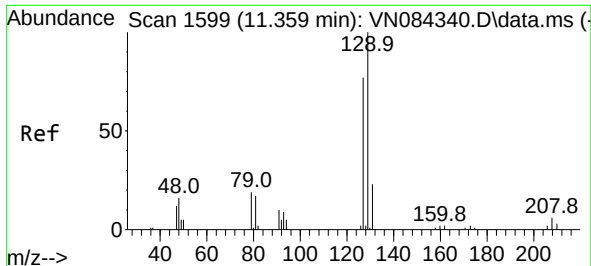
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 97      | 100   |       |        |
| 83      | 0.0   | 67.8  | 101.8# |
| 85      | 0.0   | 44.2  | 66.2#  |
| 99      | 210.5 | 47.8  | 71.8#  |



#51  
Ethyl methacrylate  
Concen: 0.239 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.312 min  
Lab File: VN084518.D  
Acq: 25 Oct 2024 16:03

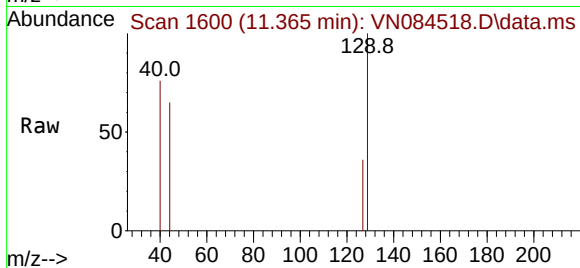
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 52.7  | 30.9  | 92.7  |
| 39      | 0.0   | 16.6  | 49.7# |



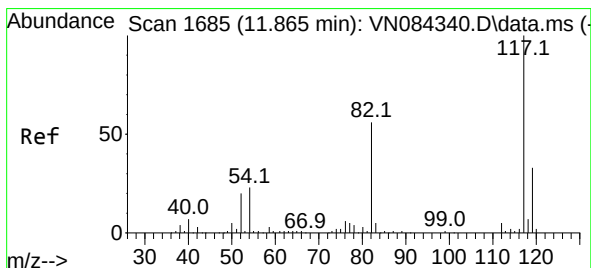
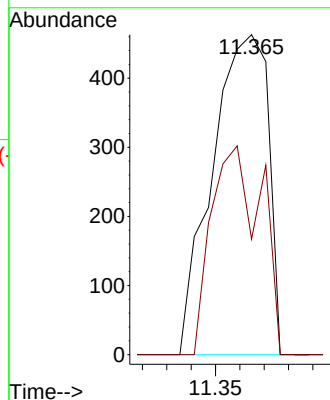
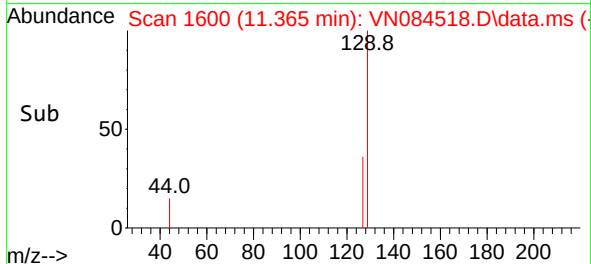


#53  
Dibromochloromethane  
Concen: 0.357 ug/l  
RT: 11.365 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN084518.D  
Acq: 25 Oct 2024 16:03

Instrument :  
MSVOA\_N  
ClientSampleId :

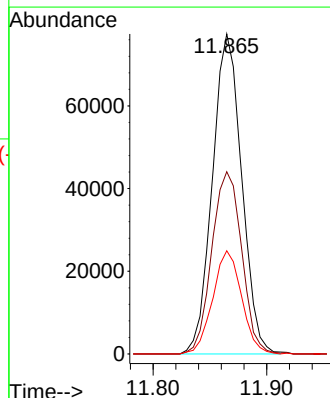
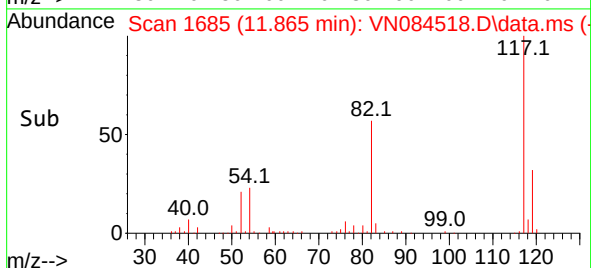
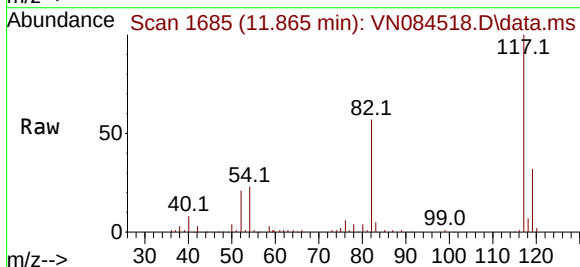


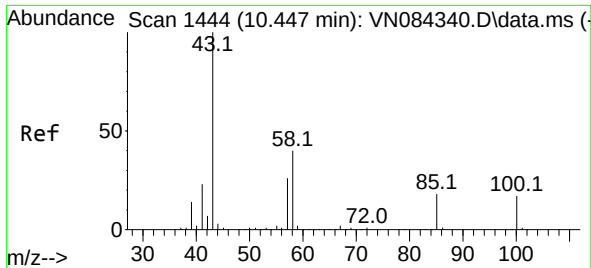
Tgt Ion:129 Resp: 740  
Ion Ratio Lower Upper  
129 100  
127 44.6 38.5 115.5



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. 0.000 min  
Lab File: VN084518.D  
Acq: 25 Oct 2024 16:03

Tgt Ion:117 Resp: 138801  
Ion Ratio Lower Upper  
117 100  
82 58.2 46.2 69.4  
119 31.8 25.4 38.2

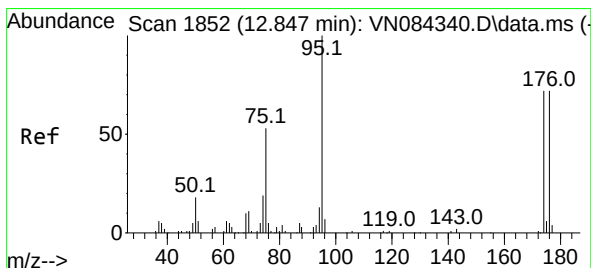
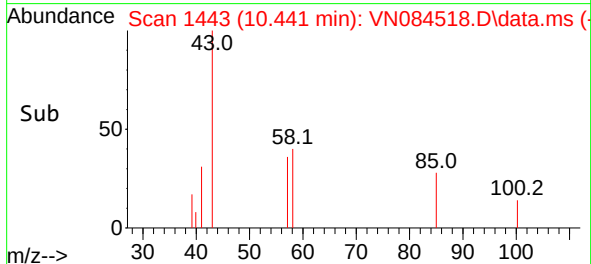
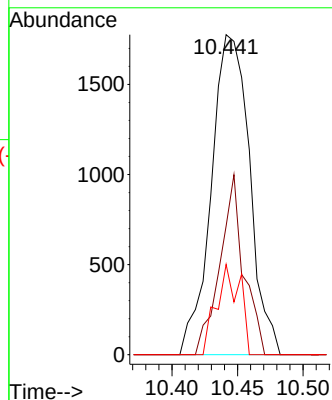
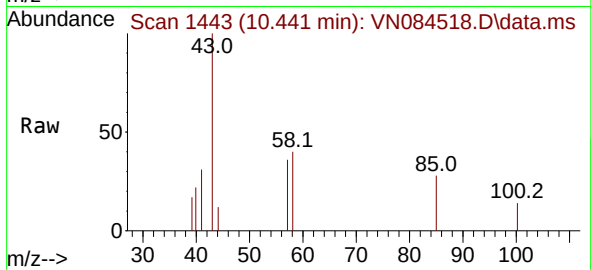




#58  
 4-Methyl-2-Pentanone  
 Concen: 1.395 ug/l  
 RT: 10.441 min Scan# 1443  
 Delta R.T. -0.006 min  
 Lab File: VN084518.D  
 Acq: 25 Oct 2024 16:03

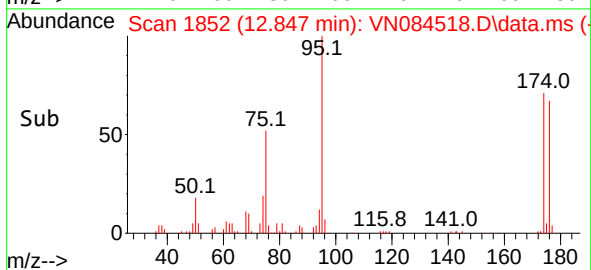
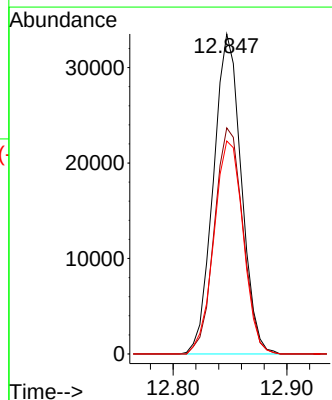
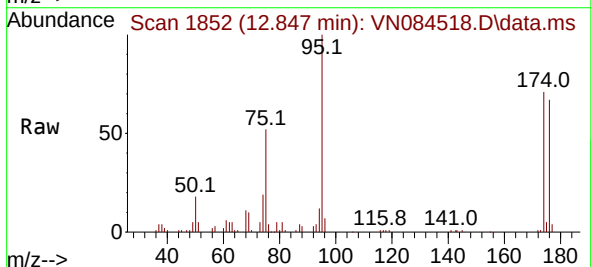
Instrument :  
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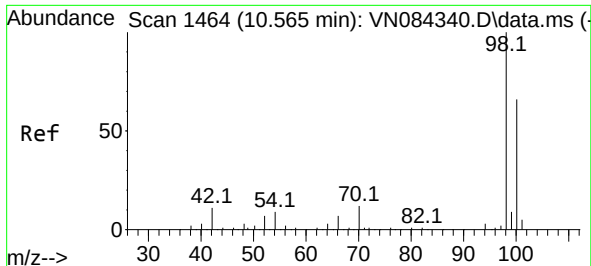
Tgt Ion: 43 Resp: 3607  
 Ion Ratio Lower Upper  
 43 100  
 58 35.1 31.9 47.9  
 85 17.2 14.6 22.0



#60  
 4-Bromofluorobenzene  
 Concen: 24.991 ug/l  
 RT: 12.847 min Scan# 1852  
 Delta R.T. 0.000 min  
 Lab File: VN084518.D  
 Acq: 25 Oct 2024 16:03

Tgt Ion: 95 Resp: 57249  
 Ion Ratio Lower Upper  
 95 100  
 174 72.4 58.2 87.2  
 176 69.7 56.4 84.6

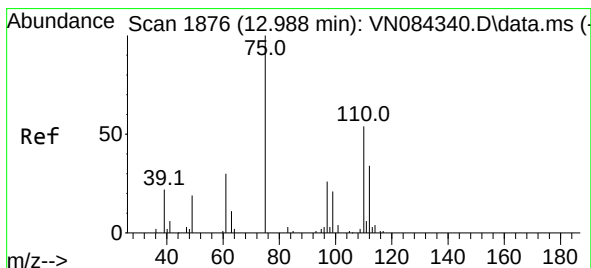
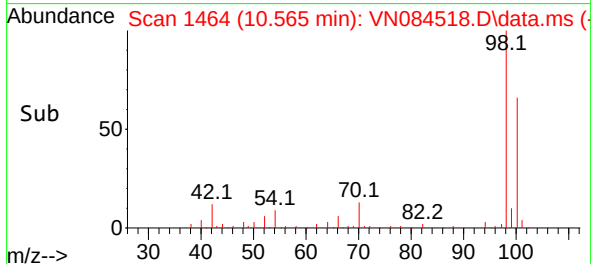
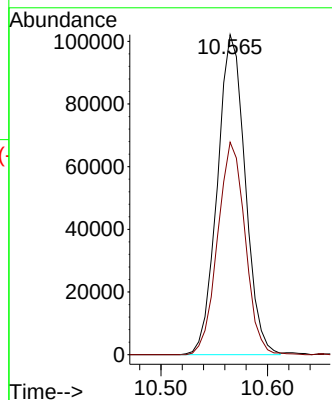
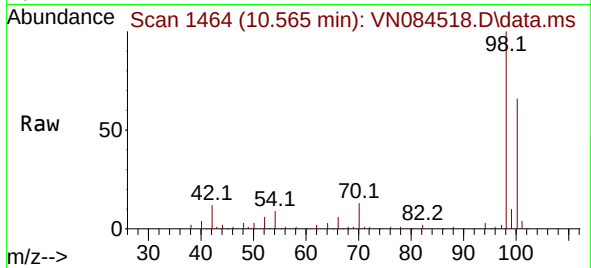




#63  
Toluene-d8  
Concen: 28.814 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VN084518.D  
Acq: 25 Oct 2024 16:03

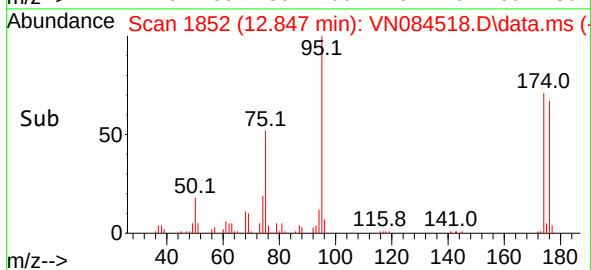
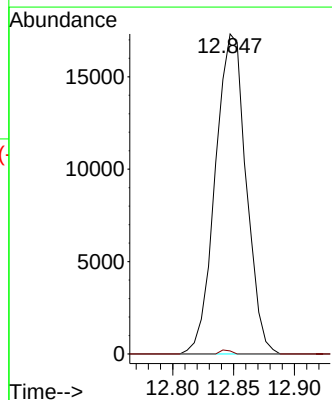
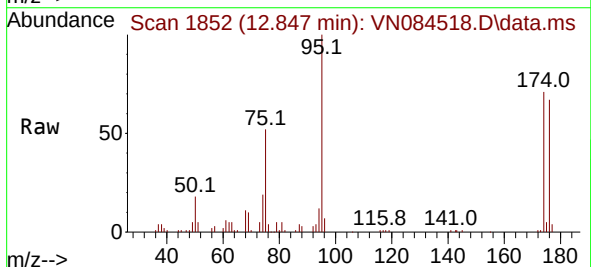
Instrument :  
MSVOA\_N  
ClientSampleId :

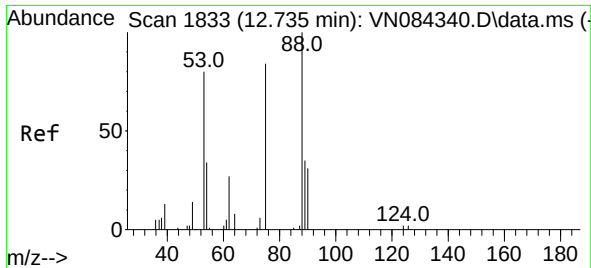
Tgt Ion: 98 Resp: 185282  
Ion Ratio Lower Upper  
98 100  
100 65.6 52.5 78.7



#72  
1,2,3-Trichloropropane  
Concen: 13.981 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.141 min  
Lab File: VN084518.D  
Acq: 25 Oct 2024 16:03

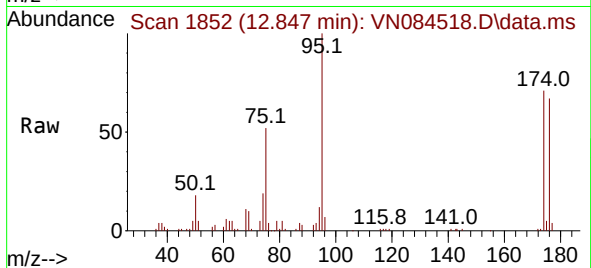
Tgt Ion: 75 Resp: 30525  
Ion Ratio Lower Upper  
75 100  
77 0.4 0.0 414.0





#77  
t-1,4-Dichloro-2-butene  
Concen: 32.718 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. 0.112 min  
Lab File: VN084518.D  
Acq: 25 Oct 2024 16:03

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion: 75 Resp: 30525  
Ion Ratio Lower Upper  
75 100  
53 0.0 47.3 142.0#  
89 0.0 22.9 68.8#

