

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN100124\  
 Data File : VN084241.D  
 Acq On : 01 Oct 2024 15:54  
 Operator : JC\MD  
 Sample : P4116-23RE  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 02 02:04:13 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 01 07:11:01 2024  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.224  | 168  | 154710   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.100  | 114  | 270969   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.865 | 117  | 229190   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.794 | 152  | 90676    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.577  | 65    | 114642   | 49.978   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | =    | 99.960%  |
| 35) Dibromofluoromethane    | 8.165  | 113   | 89639    | 50.179   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 100.360% |
| 50) Toluene-d8              | 10.565 | 98    | 327502   | 49.830   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | =    | 99.660%  |
| 62) 4-Bromofluorobenzene    | 12.847 | 95    | 100313   | 41.895   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 77 - 121 | Recovery | =    | 83.800%  |

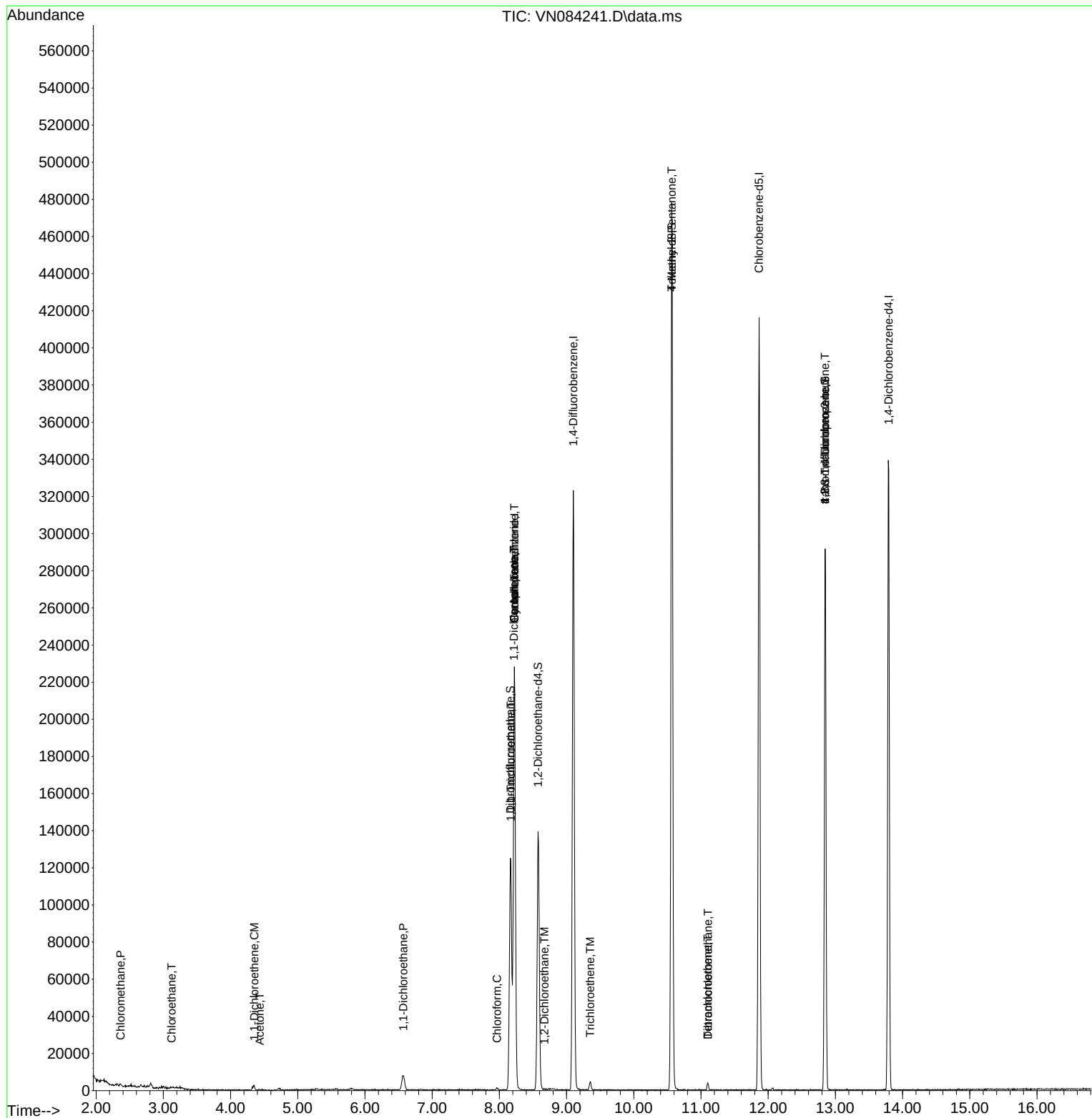
|                               |        |     |       |        |        |    |
|-------------------------------|--------|-----|-------|--------|--------|----|
| Target Compounds              |        |     |       |        | Qvalue |    |
| 3) Chloromethane              | 2.365  | 50  | 708   | 0.339  | ug/l   | 95 |
| 6) Chloroethane               | 3.124  | 64  | 393   | 0.271  | ug/l # | 45 |
| 12) 1,1-Dichloroethene        | 4.353  | 96  | 1408  | 0.808  | ug/l # | 58 |
| 16) Acetone                   | 4.436  | 43  | 382   | 0.388  | ug/l # | 44 |
| 24) 1,1-Dichloroethane        | 6.571  | 63  | 13038 | 3.726  | ug/l # | 97 |
| 30) Chloroform                | 7.965  | 83  | 1078  | 0.297  | ug/l # | 79 |
| 31) Cyclohexane               | 8.224  | 56  | 4128  | 1.215  | ug/l # | 1  |
| 32) 1,1,1-Trichloroethane     | 8.171  | 97  | 1083  | 0.332  | ug/l # | 35 |
| 36) 1,1-Dichloropropene       | 8.218  | 75  | 13926 | 5.367  | ug/l # | 52 |
| 38) Carbon Tetrachloride      | 8.224  | 117 | 17396 | 6.112  | ug/l # | 15 |
| 42) 1,2-Dichloroethane        | 8.671  | 62  | 555   | 0.202  | ug/l # | 75 |
| 44) Trichloroethene           | 9.353  | 130 | 1963  | 1.040  | ug/l   | 85 |
| 51) 4-Methyl-2-Pentanone      | 10.565 | 43  | 1541  | 0.608  | ug/l # | 1  |
| 60) Dibromochloromethane      | 11.106 | 129 | 1040  | 0.498  | ug/l # | 11 |
| 64) Tetrachloroethene         | 11.100 | 164 | 978   | 0.613  | ug/l # | 76 |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75  | 54693 | 29.545 | ug/l # | 1  |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75  | 54693 | 70.833 | ug/l # | 11 |

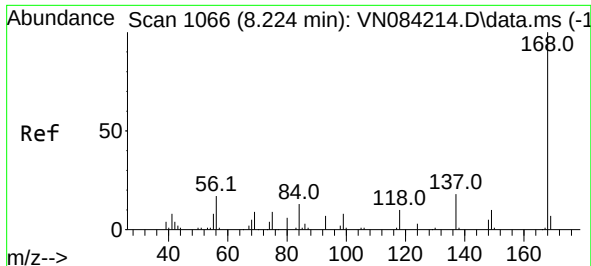
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN100124\  
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Sample : P4116-23RE  
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ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

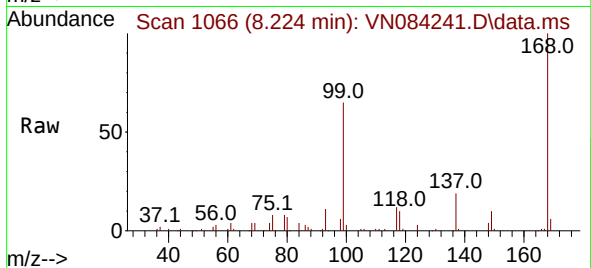
Quant Time: Oct 02 02:04:13 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 01 07:11:01 2024  
Response via : Initial Calibration



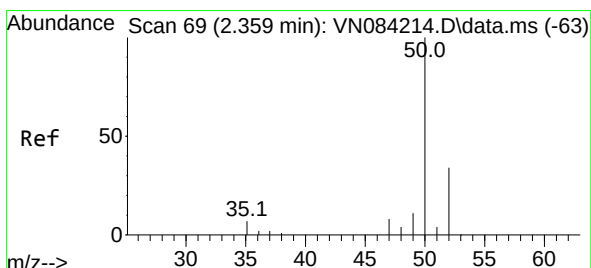
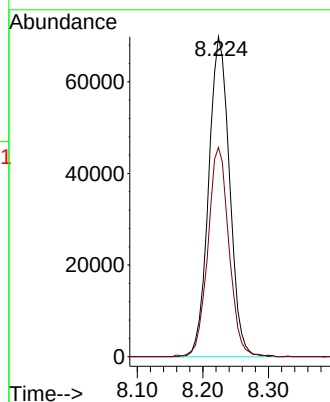
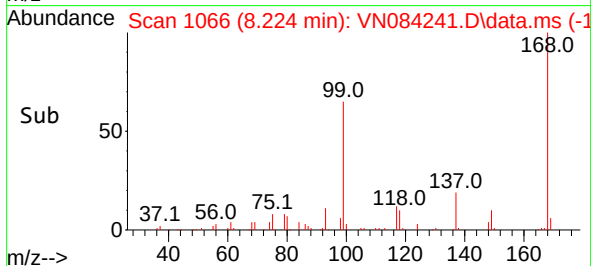


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN084241.D  
Acq: 01 Oct 2024 15:54

Instrument :  
MSVOA\_N  
ClientSampleId :

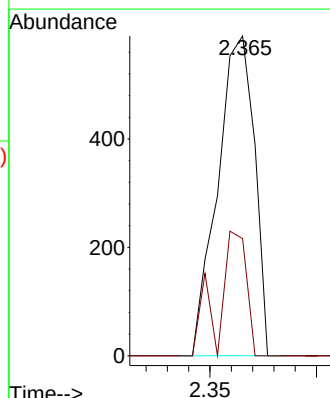
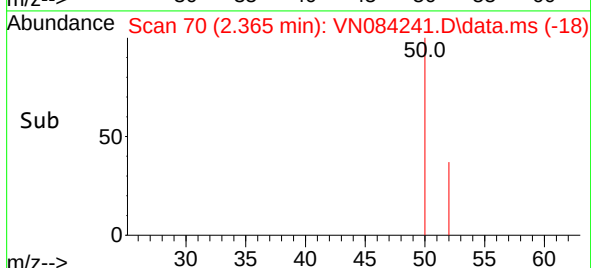
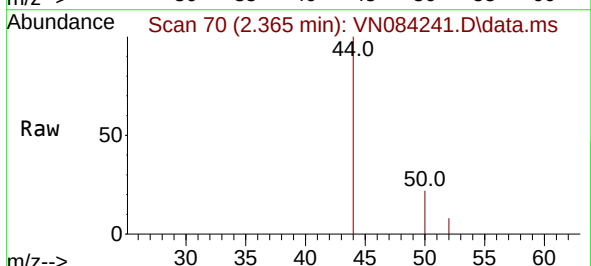


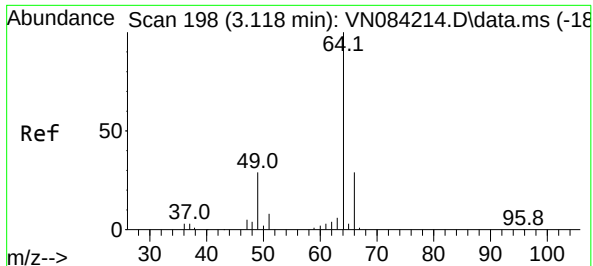
Tgt Ion:168 Resp: 154710  
Ion Ratio Lower Upper  
168 100  
99 65.4 54.2 81.2



#3  
Chloromethane  
Concen: 0.339 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN084241.D  
Acq: 01 Oct 2024 15:54

Tgt Ion: 50 Resp: 708  
Ion Ratio Lower Upper  
50 100  
52 36.6 26.8 40.2

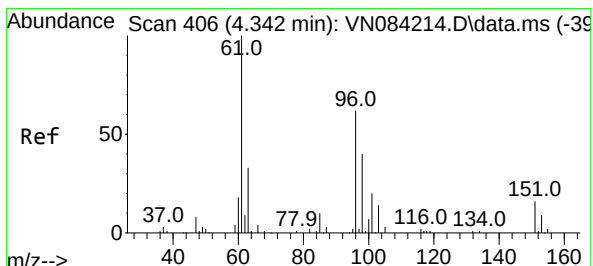
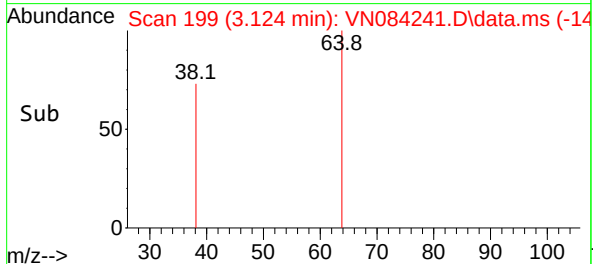
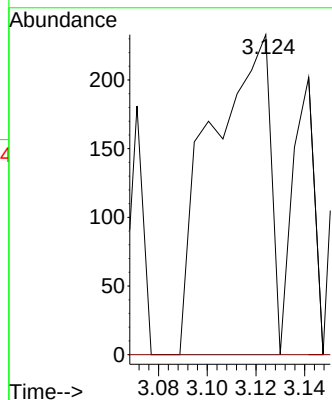
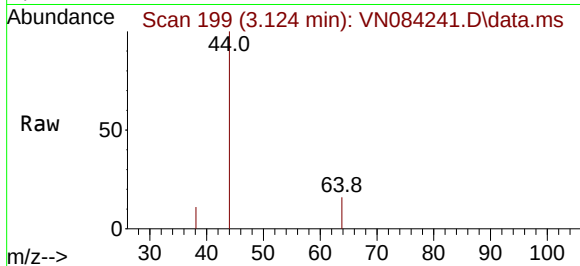




#6  
Chloroethane  
Concen: 0.271 ug/l  
RT: 3.124 min Scan# 19  
Delta R.T. 0.006 min  
Lab File: VN084241.D  
Acq: 01 Oct 2024 15:54

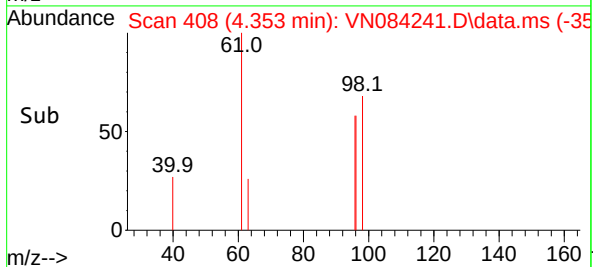
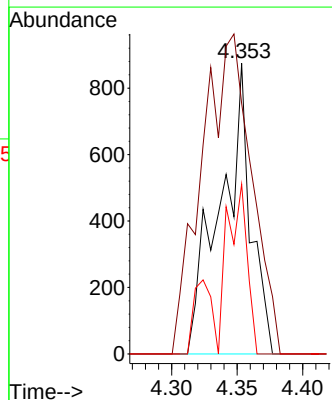
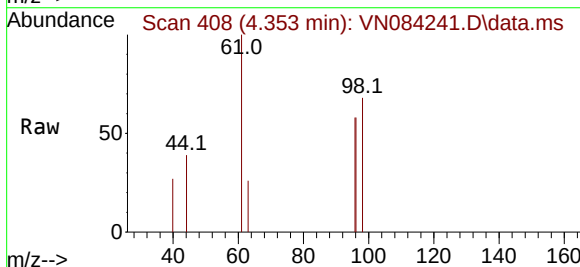
Instrument :  
MSVOA\_N  
ClientSampleId :

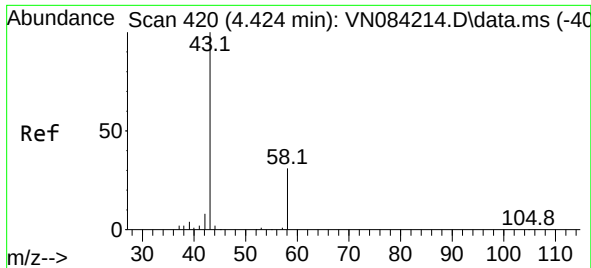
Tgt Ion: 64 Resp: 393  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.5 35.3#



#12  
1,1-Dichloroethene  
Concen: 0.808 ug/l  
RT: 4.353 min Scan# 408  
Delta R.T. 0.012 min  
Lab File: VN084241.D  
Acq: 01 Oct 2024 15:54

Tgt Ion: 96 Resp: 1408  
Ion Ratio Lower Upper  
96 100  
61 86.2 128.6 192.8#  
98 58.4 51.7 77.5





#16

Acetone

Concen: 0.388 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN084241.D

Acq: 01 Oct 2024 15:54

Instrument :

MSVOA\_N

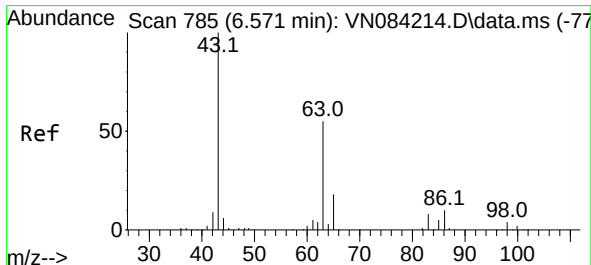
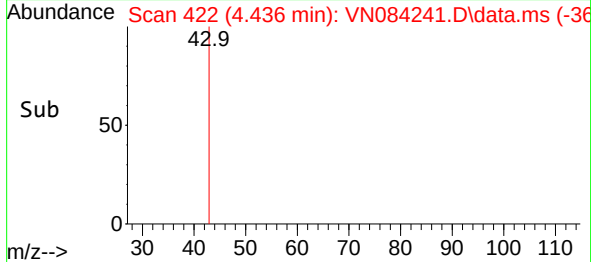
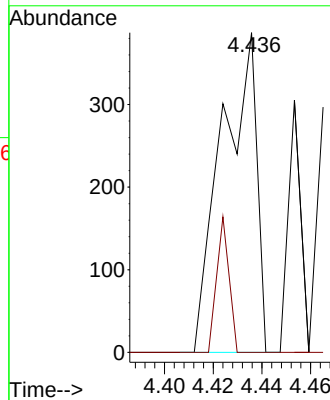
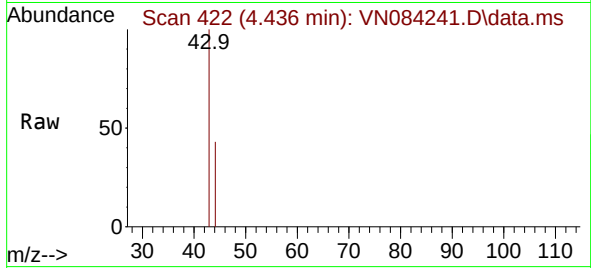
ClientSampleId :

Tgt Ion: 43 Resp: 382

Ion Ratio Lower Upper

43 100

58 0.0 24.4 36.6#



#24

1,1-Dichloroethane

Concen: 3.726 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.000 min

Lab File: VN084241.D

Acq: 01 Oct 2024 15:54

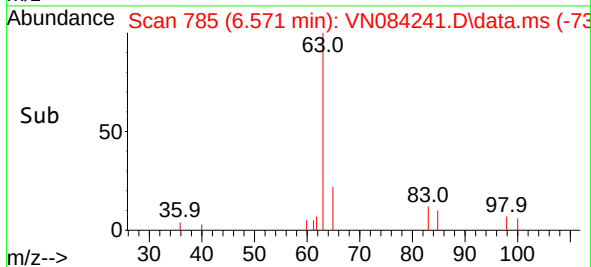
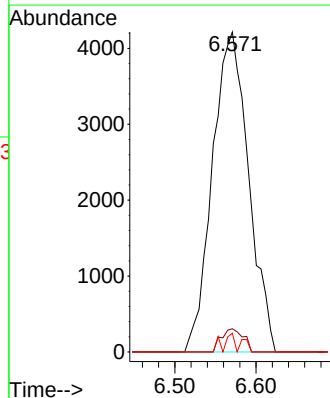
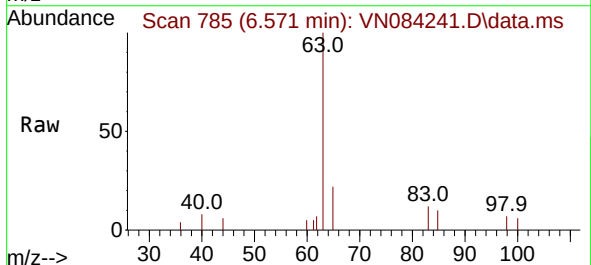
Tgt Ion: 63 Resp: 13038

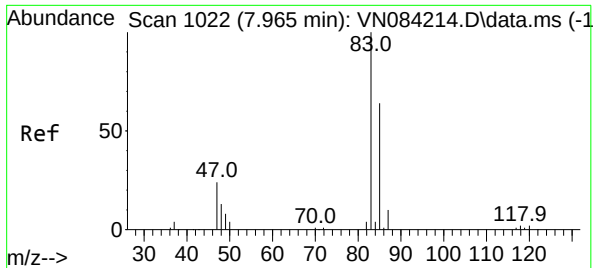
Ion Ratio Lower Upper

63 100

98 7.3 3.4 10.2

100 5.9 2.0 5.8#

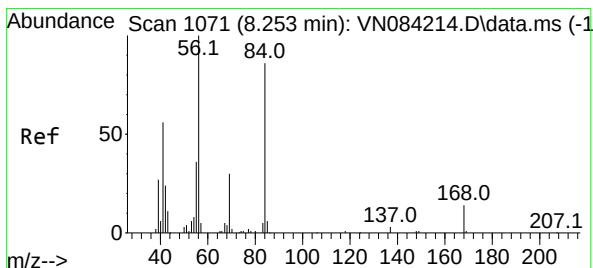
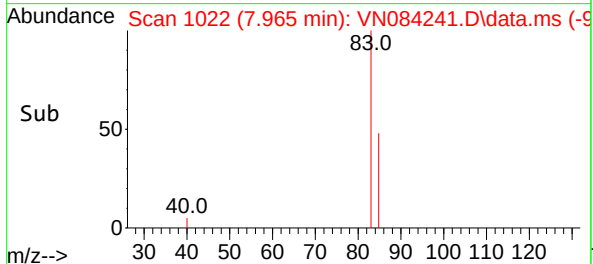
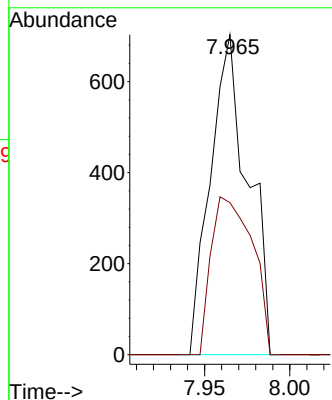
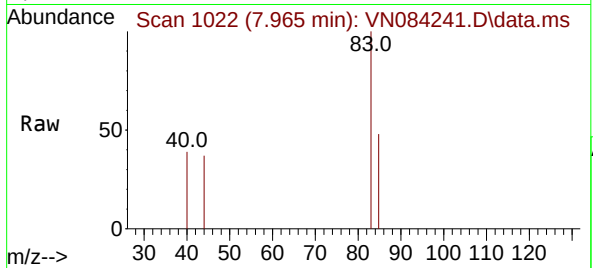




#30  
Chloroform  
Concen: 0.297 ug/l  
RT: 7.965 min Scan# 1078  
Delta R.T. 0.000 min  
Lab File: VN084241.D  
Acq: 01 Oct 2024 15:54

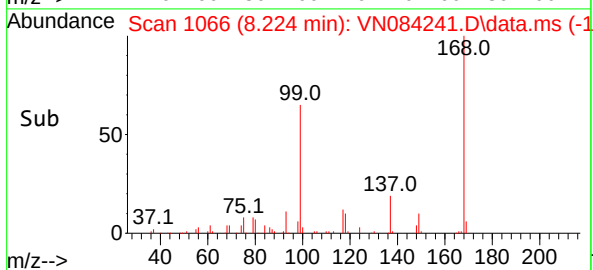
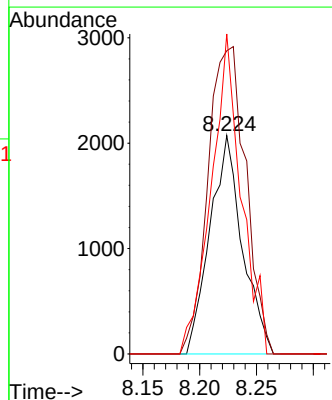
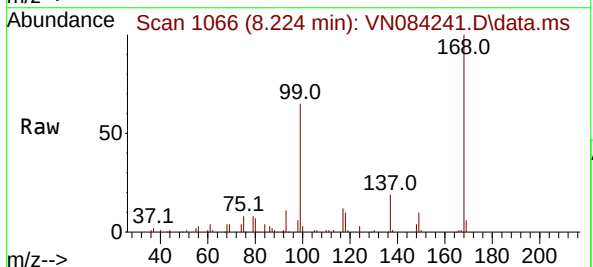
Instrument :  
MSVOA\_N  
ClientSampleId :

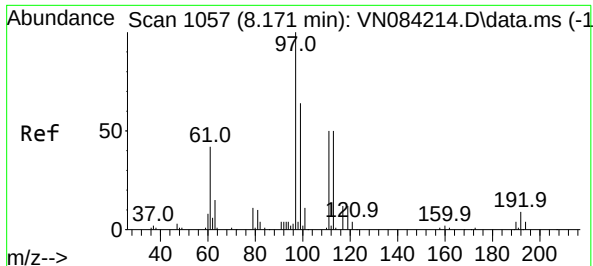
Tgt Ion: 83 Resp: 1078  
Ion Ratio Lower Upper  
83 100  
85 47.5 51.0 76.4#



#31  
Cyclohexane  
Concen: 1.215 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.029 min  
Lab File: VN084241.D  
Acq: 01 Oct 2024 15:54

Tgt Ion: 56 Resp: 4128  
Ion Ratio Lower Upper  
56 100  
69 138.9 23.8 35.6#  
84 146.5 68.8 103.2#





#32

1,1,1-Trichloroethane

Concen: 0.332 ug/l

RT: 8.171 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN084241.D

Acq: 01 Oct 2024 15:54

Instrument :

MSVOA\_N

ClientSampleId :

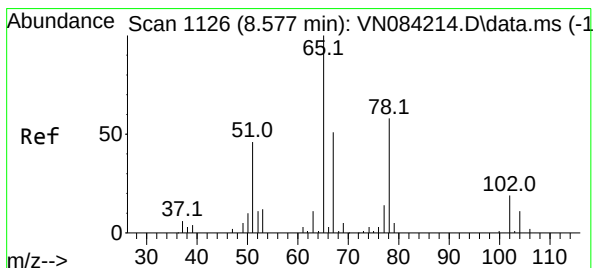
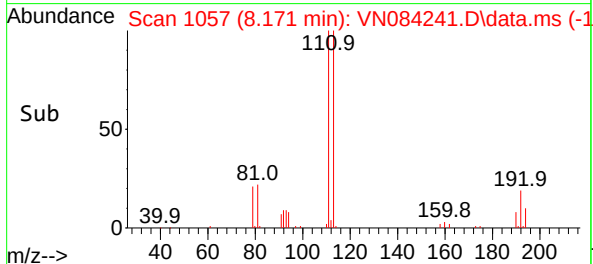
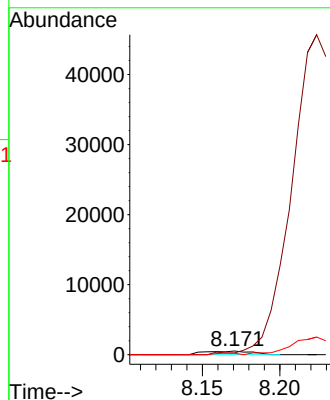
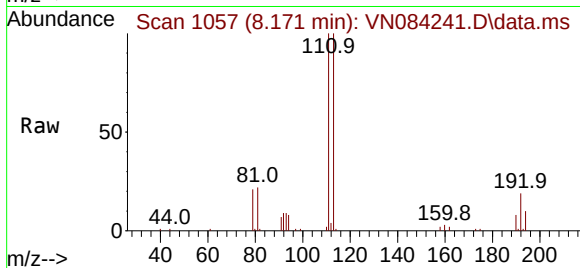
Tgt Ion: 97 Resp: 1083

Ion Ratio Lower Upper

97 100

99 0.0 51.2 76.8#

61 19.4 37.5 56.3#



#33

1,2-Dichloroethane-d4

Concen: 49.978 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN084241.D

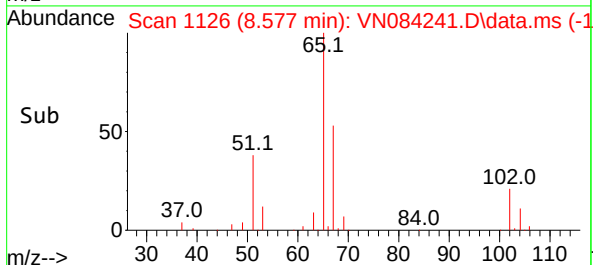
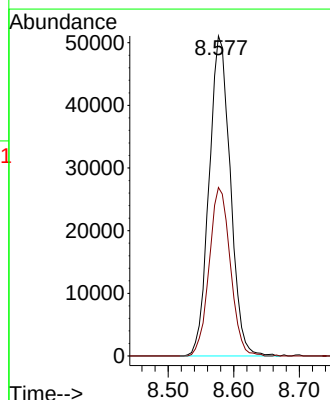
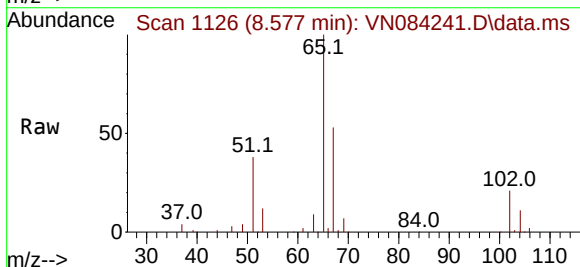
Acq: 01 Oct 2024 15:54

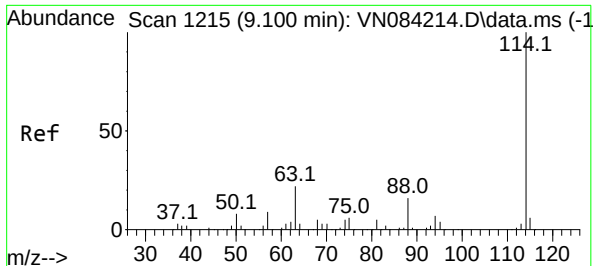
Tgt Ion: 65 Resp: 114642

Ion Ratio Lower Upper

65 100

67 52.4 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: VN084241.D

Acq: 01 Oct 2024 15:54

Instrument :

MSVOA\_N

ClientSampleId :

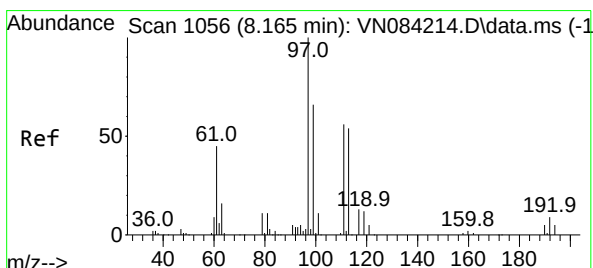
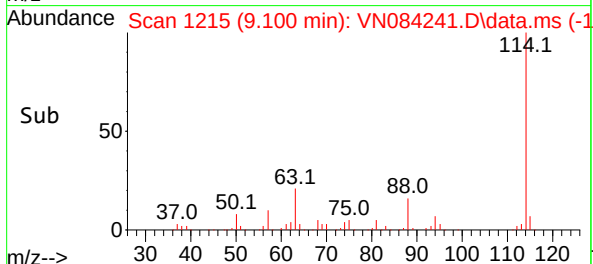
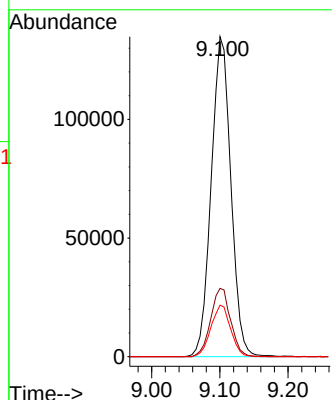
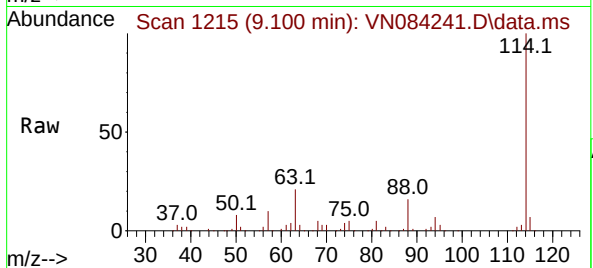
Tgt Ion:114 Resp: 270969

Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.8

88 16.1 0.0 31.6



#35

Dibromofluoromethane

Concen: 50.179 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN084241.D

Acq: 01 Oct 2024 15:54

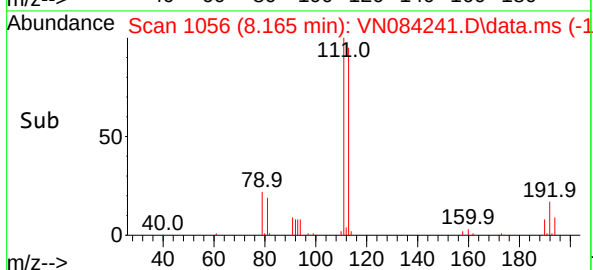
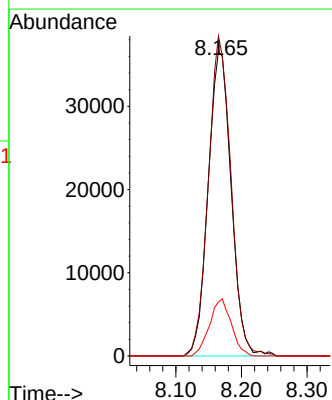
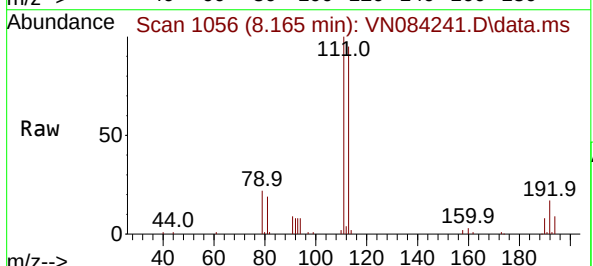
Tgt Ion:113 Resp: 89639

Ion Ratio Lower Upper

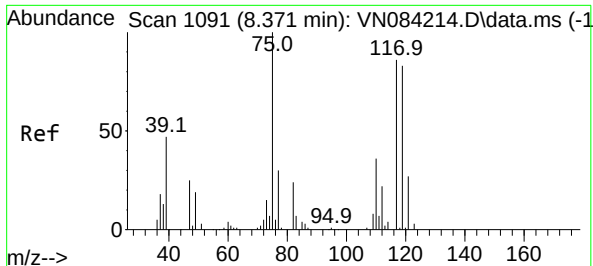
113 100

111 102.5 83.3 124.9

192 17.7 13.5 20.3







#36

1,1-Dichloropropene

Concen: 5.367 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

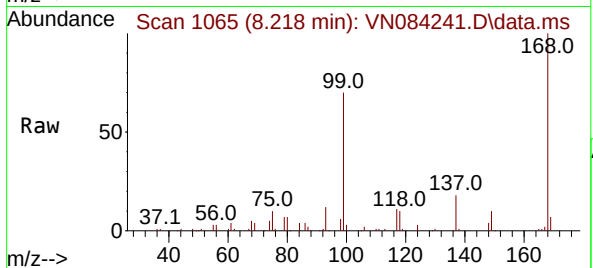
Lab File: VN084241.D

Acq: 01 Oct 2024 15:54

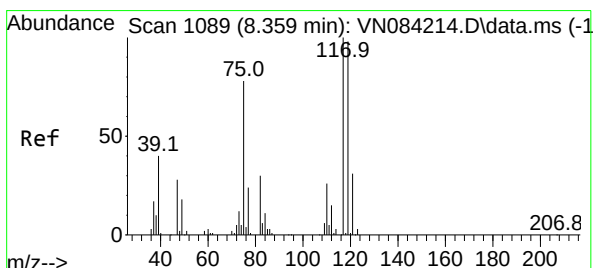
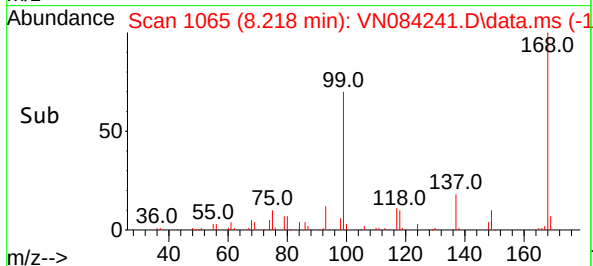
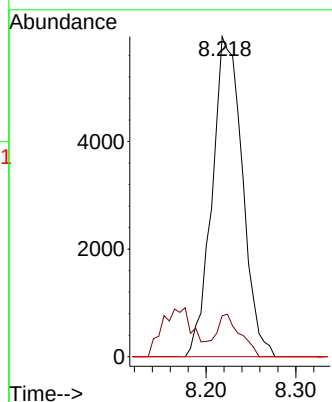
Instrument :

MSVOA\_N

ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 13926 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 10.5  | 16.9  | 50.7# |
| 77        | 0.0   | 24.7  | 37.1# |



#38

Carbon Tetrachloride

Concen: 6.112 ug/l

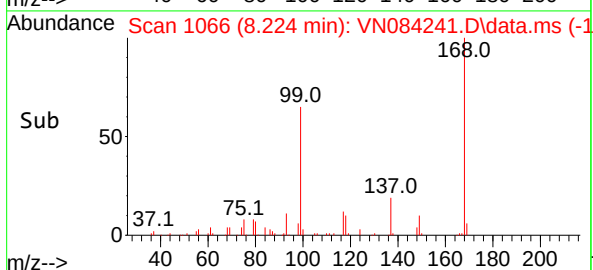
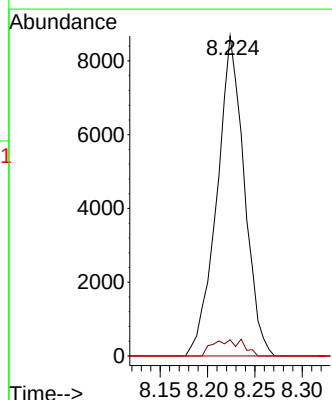
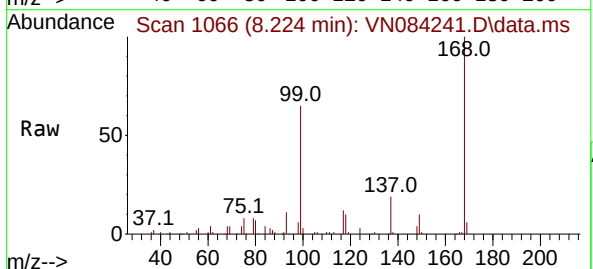
RT: 8.224 min Scan# 1066

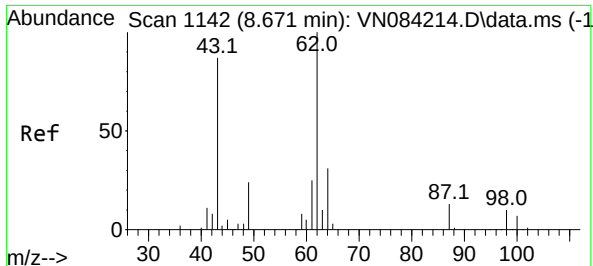
Delta R.T. -0.135 min

Lab File: VN084241.D

Acq: 01 Oct 2024 15:54

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 17396  |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 5.0   | 78.7  | 118.1# |
| 121       | 0.0   | 24.4  | 36.6#  |





#42

1,2-Dichloroethane

Concen: 0.202 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VN084241.D

Acq: 01 Oct 2024 15:54

Instrument :

MSVOA\_N

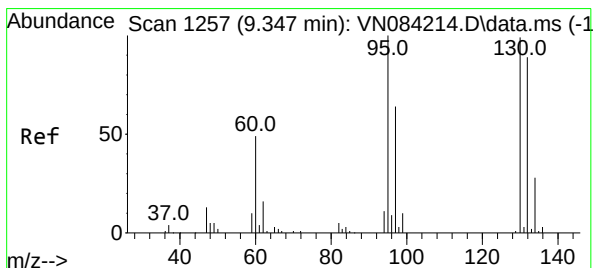
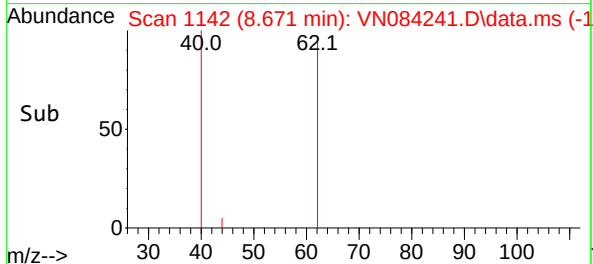
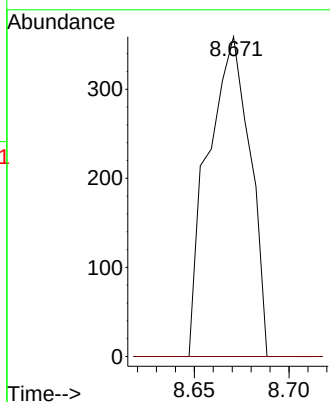
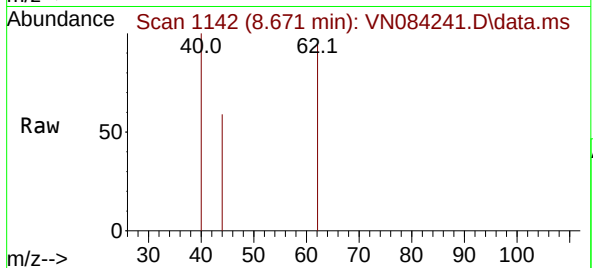
ClientSampleId :

Tgt Ion: 62 Resp: 555

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#44

Trichloroethene

Concen: 1.040 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.006 min

Lab File: VN084241.D

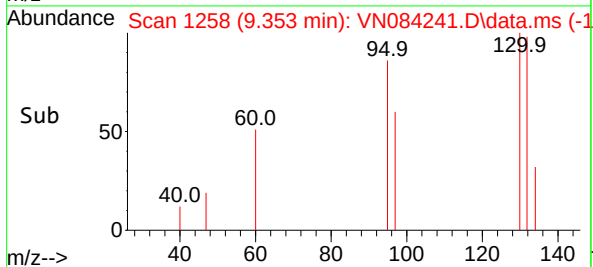
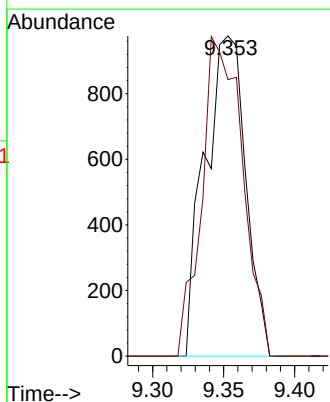
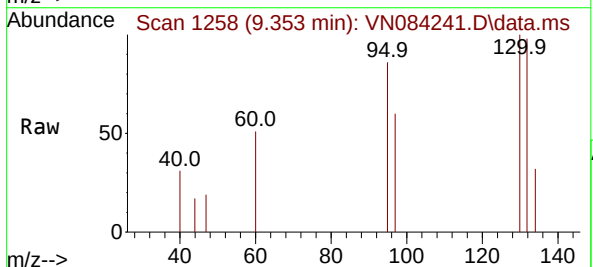
Acq: 01 Oct 2024 15:54

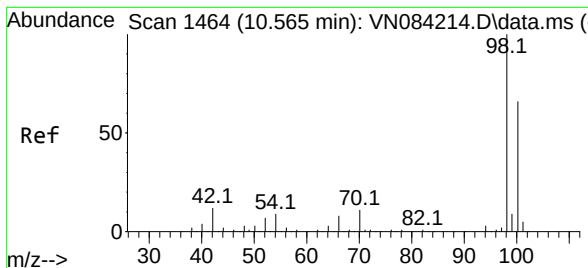
Tgt Ion: 130 Resp: 1963

Ion Ratio Lower Upper

130 100

95 86.4 0.0 203.0

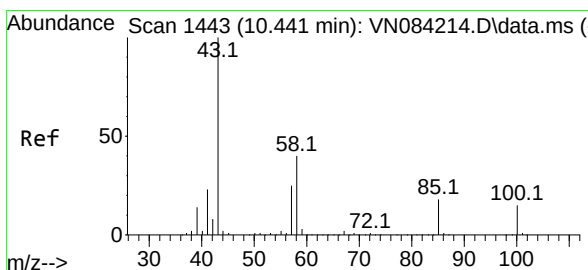
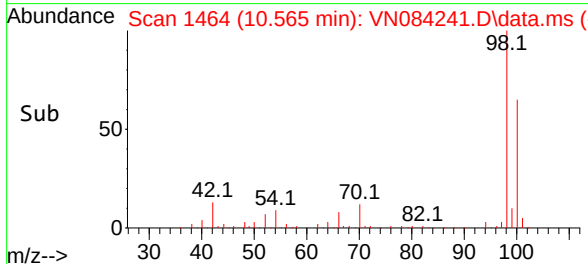
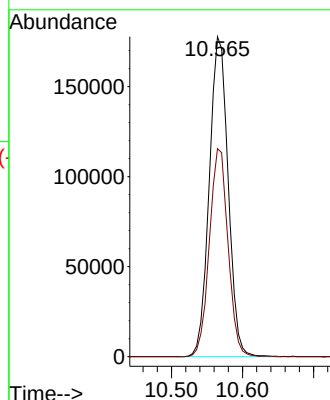
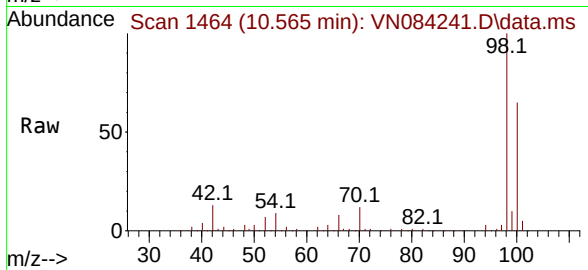




#50  
Toluene-d8  
Concen: 49.830 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VN084241.D  
Acq: 01 Oct 2024 15:54

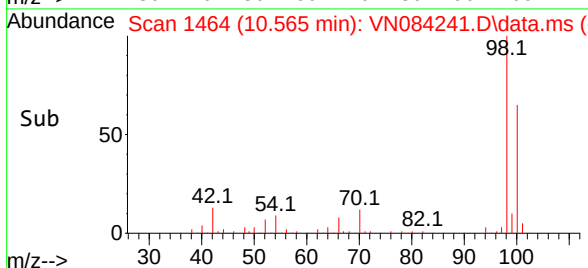
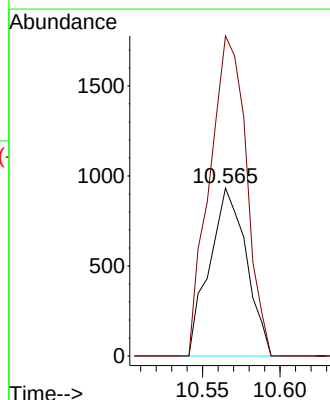
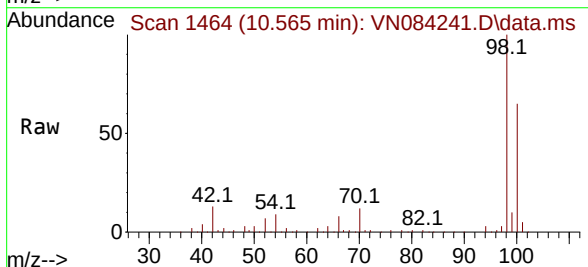
Instrument :  
MSVOA\_N  
ClientSampleId :

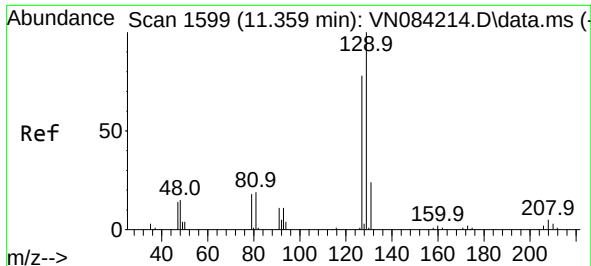
Tgt Ion: 98 Resp: 327502  
Ion Ratio Lower Upper  
98 100  
100 64.4 52.7 79.1



#51  
4-Methyl-2-Pentanone  
Concen: 0.608 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.124 min  
Lab File: VN084241.D  
Acq: 01 Oct 2024 15:54

Tgt Ion: 43 Resp: 1541  
Ion Ratio Lower Upper  
43 100  
58 190.4 31.6 47.4#

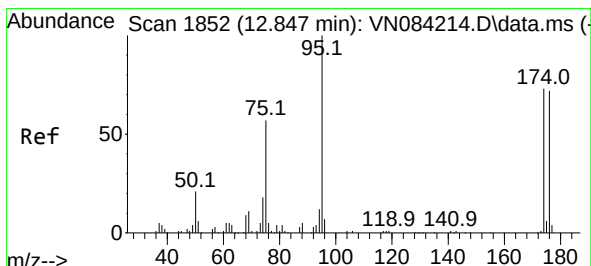
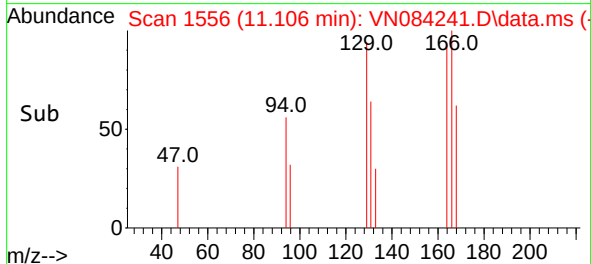
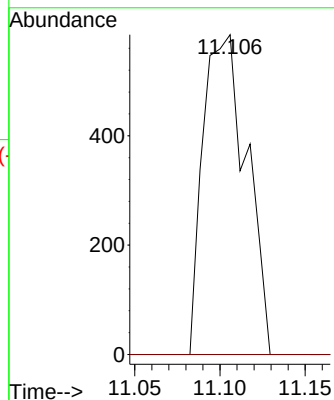
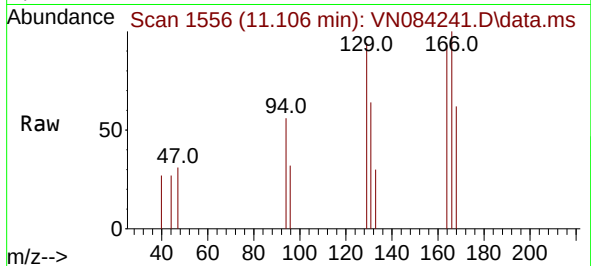




#60  
Dibromochloromethane  
Concen: 0.498 ug/l  
RT: 11.106 min Scan# 11  
Delta R.T. -0.253 min  
Lab File: VN084241.D  
Acq: 01 Oct 2024 15:54

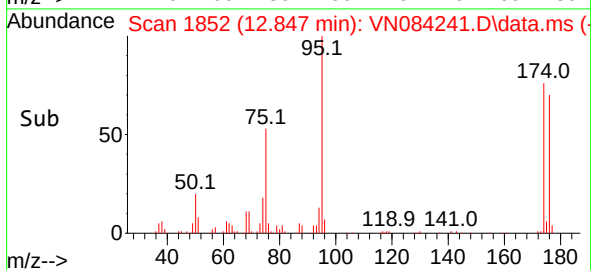
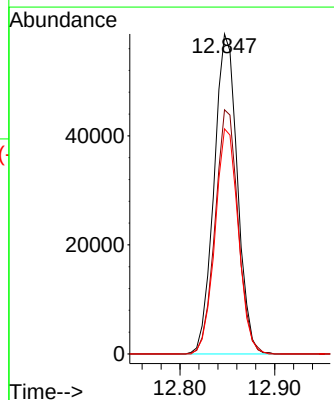
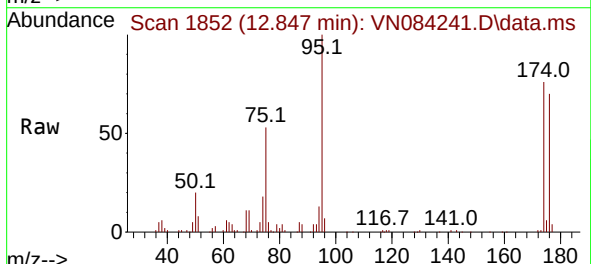
Instrument :  
MSVOA\_N  
ClientSampleId :

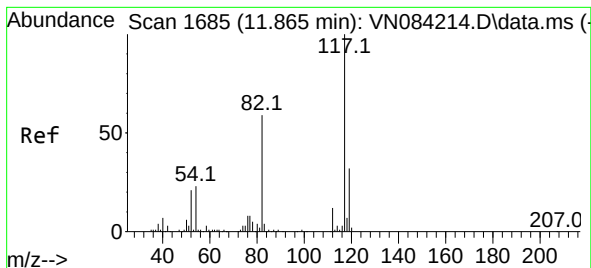
Tgt Ion:129 Resp: 1040  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.3 114.9#



#62  
4-Bromofluorobenzene  
Concen: 41.895 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN084241.D  
Acq: 01 Oct 2024 15:54

Tgt Ion: 95 Resp: 100313  
Ion Ratio Lower Upper  
95 100  
174 75.5 0.0 145.2  
176 70.1 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

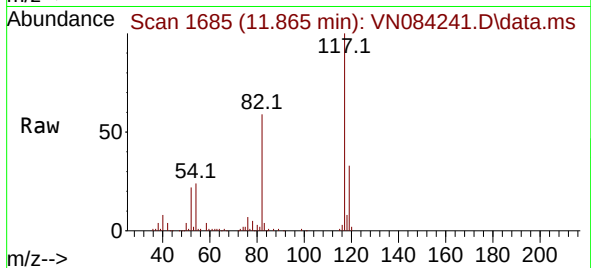
Lab File: VN084241.D

Acq: 01 Oct 2024 15:54

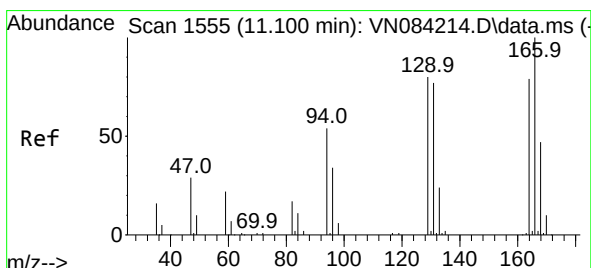
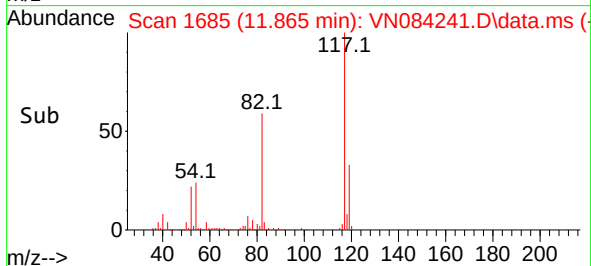
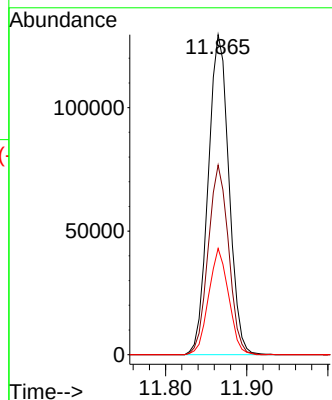
Instrument :

MSVOA\_N

ClientSampleId :



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 229190 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 59.2  | 47.2  | 70.8   |
| 119      | 33.2  | 25.4  | 38.0   |



#64

Tetrachloroethene

Concen: 0.613 ug/l

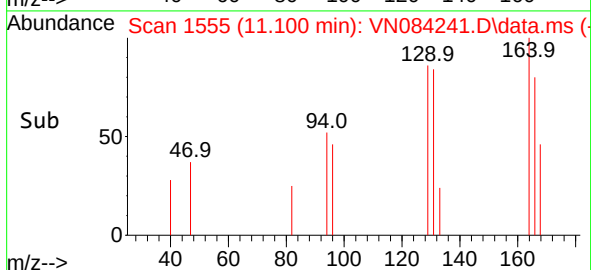
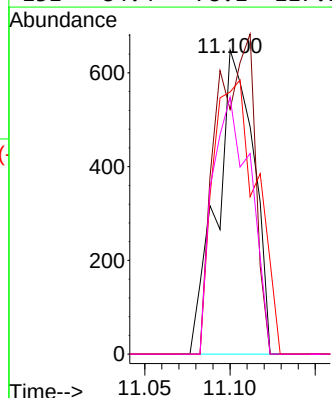
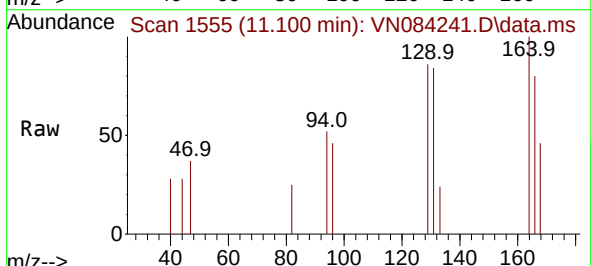
RT: 11.100 min Scan# 1555

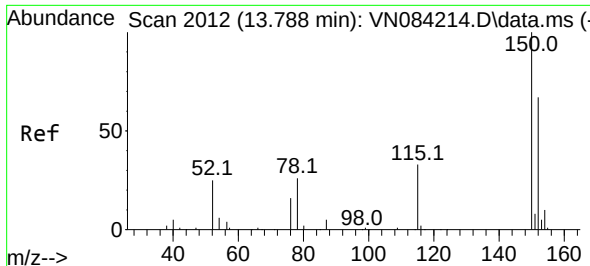
Delta R.T. 0.000 min

Lab File: VN084241.D

Acq: 01 Oct 2024 15:54

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 978    |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 166      | 80.4  | 101.0 | 151.4# |
| 129      | 86.1  | 80.8  | 121.2  |
| 131      | 84.4  | 78.1  | 117.1  |

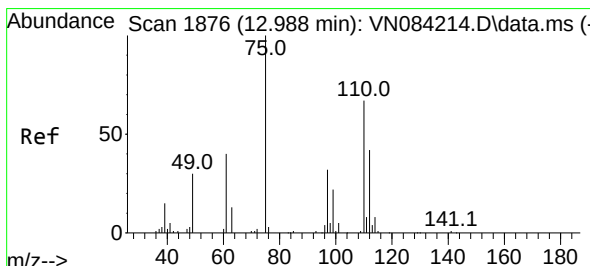
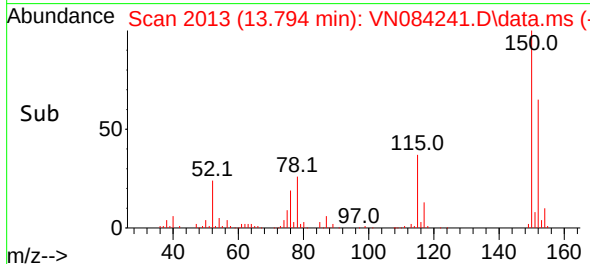
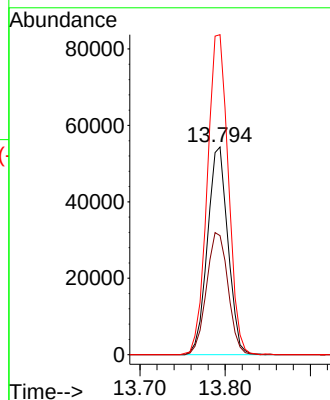
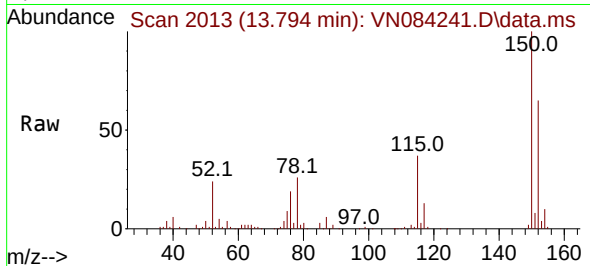




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 2012  
Delta R.T. 0.006 min  
Lab File: VN084241.D  
Acq: 01 Oct 2024 15:54

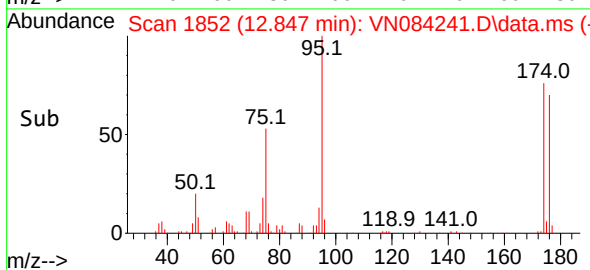
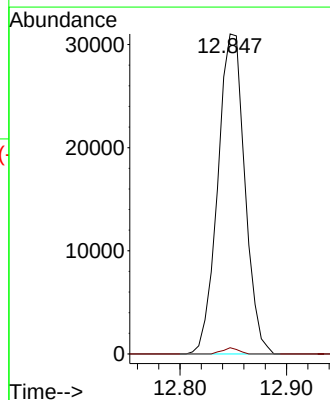
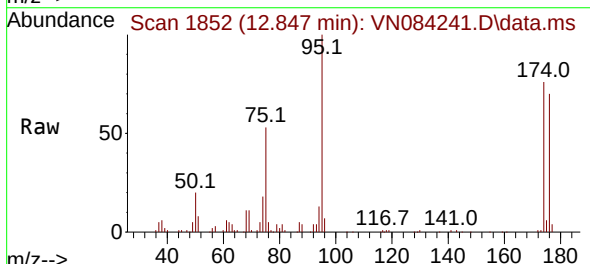
Instrument :  
MSVOA\_N  
ClientSampleId :

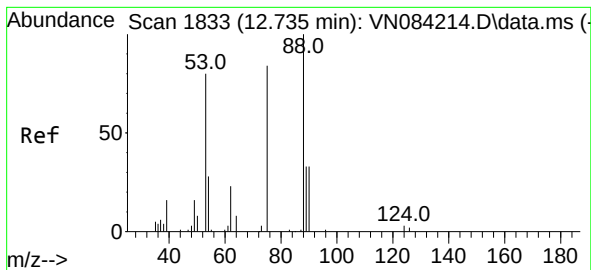
Tgt Ion:152 Resp: 90676  
Ion Ratio Lower Upper  
152 100  
115 61.7 31.3 93.9  
150 158.0 0.0 349.8



#76  
1,2,3-Trichloropropane  
Concen: 29.545 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.141 min  
Lab File: VN084241.D  
Acq: 01 Oct 2024 15:54

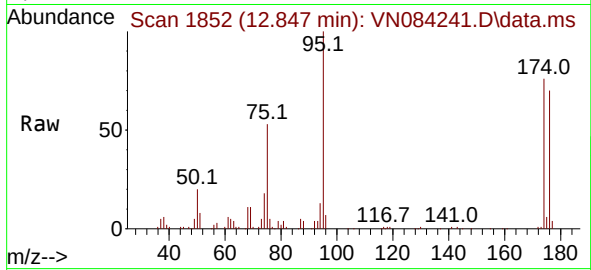
Tgt Ion: 75 Resp: 54693  
Ion Ratio Lower Upper  
75 100  
77 1.1 96.9 290.7#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 70.833 ug/l  
 RT: 12.847 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN084241.D  
 Acq: 01 Oct 2024 15:54

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion: 75 Resp: 54693  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 78.0 117.0#  
 89 0.0 35.5 53.3#

