

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112524\  
 Data File : VN085028.D  
 Acq On : 25 Nov 2024 14:02  
 Operator : JC\MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 26 05:53:15 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N103124W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Nov 01 02:38:04 2024  
 Response via : Initial Calibration

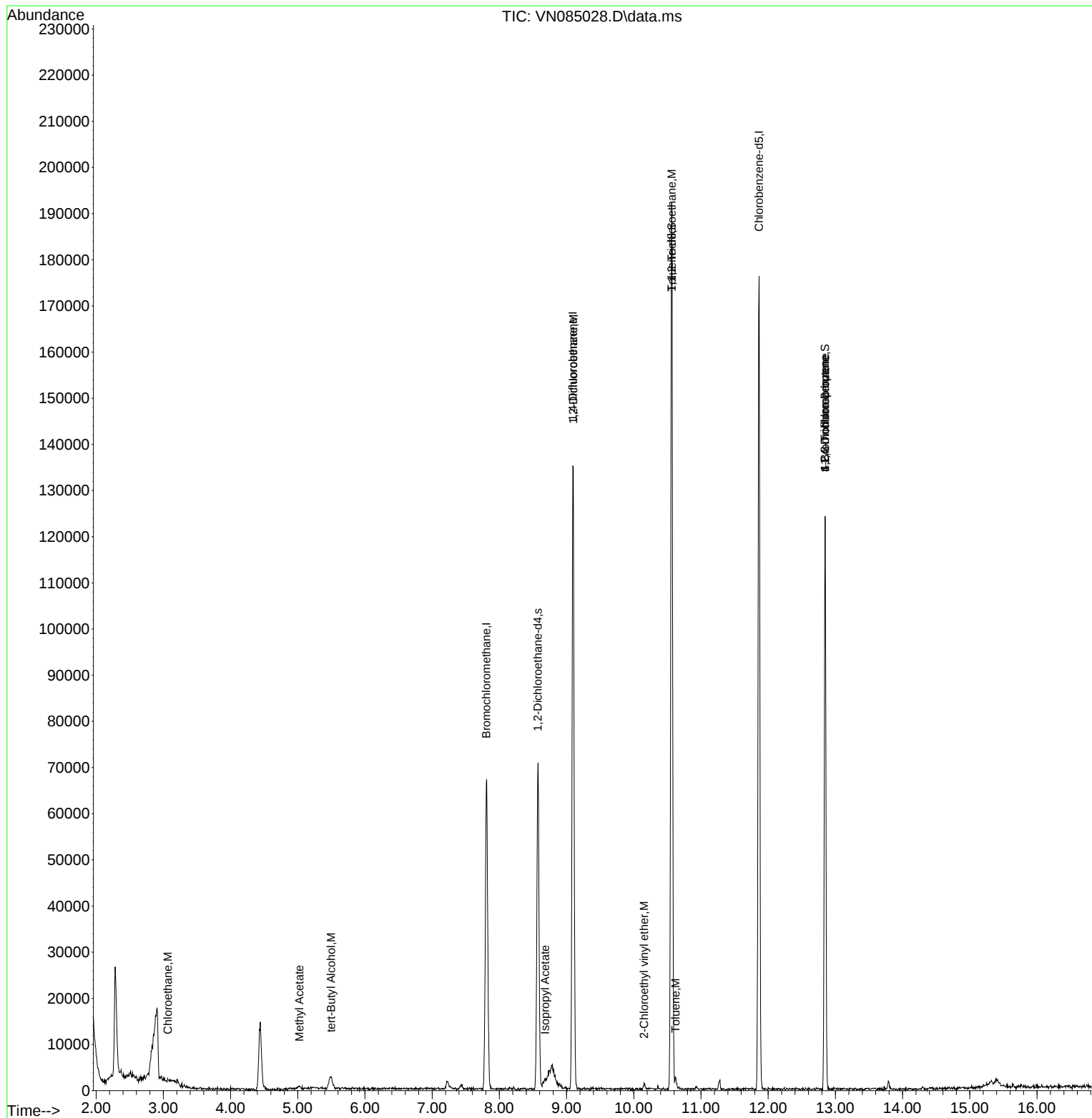
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 7.806  | 128   | 23409    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene       | 9.094  | 114   | 118400   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5          | 11.865 | 117   | 105610   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4     | 8.571  | 65    | 58185    | 30.917   | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 110 | Recovery | =      | 103.067% |
| 60) 4-Bromofluorobenzene      | 12.847 | 95    | 43357    | 23.843   | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 63 - 112 | Recovery | =      | 79.467%  |
| 63) Toluene-d8                | 10.565 | 98    | 138092   | 27.621   | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 112 | Recovery | =      | 92.067%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 6) Chloroethane               | 3.065  | 64    | 409      | 0.409    | ug/l # | 47       |
| 12) Methyl Acetate            | 5.024  | 43    | 1111     | 0.522    | ug/l # | 52       |
| 23) tert-Butyl Alcohol        | 5.495  | 59    | 3389     | 13.954   | ug/l # | 100      |
| 36) 1,2-Dichloroethane        | 9.100  | 62    | 4100     | 2.092    | ug/l # | 74       |
| 44) Isopropyl Acetate         | 8.683  | 43    | 1276     | 0.365    | ug/l # | 50       |
| 50) 1,1,2-Trichloroethane     | 10.565 | 97    | 4724     | 3.548    | ug/l # | 1        |
| 55) 2-Chloroethyl vinyl ether | 10.153 | 63    | 697      | 0.693    | ug/l # | 45       |
| 62) Toluene                   | 10.624 | 91    | 1438     | 0.239    | ug/l   | 93       |
| 72) 1,2,3-Trichloropropane    | 12.847 | 75    | 22883    | 14.256   | ug/l # | 1        |
| 77) t-1,4-Dichloro-2-butene   | 12.847 | 75    | 22883    | 34.760   | ug/l # | 7        |
| -----                         |        |       |          |          |        |          |

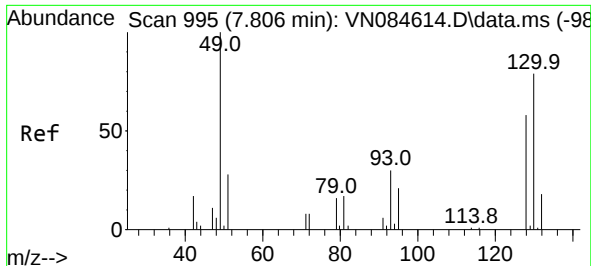
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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ClientSampleId :

Quant Time: Nov 26 05:53:15 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N103124W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Nov 01 02:38:04 2024  
Response via : Initial Calibration

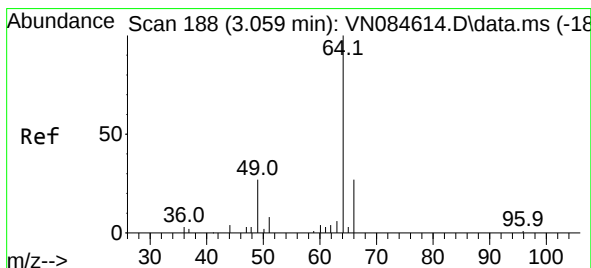
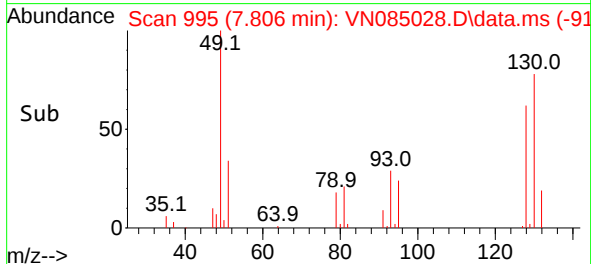
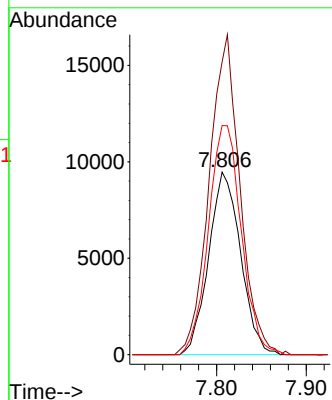
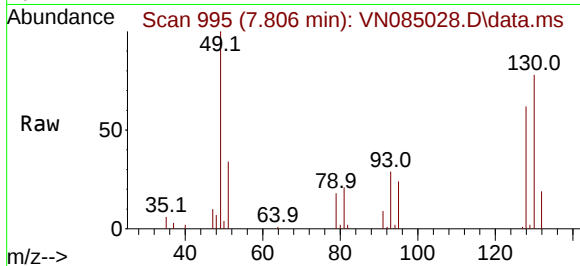




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.806 min Scan# 995  
Delta R.T. 0.000 min  
Lab File: VN085028.D  
Acq: 25 Nov 2024 14:02

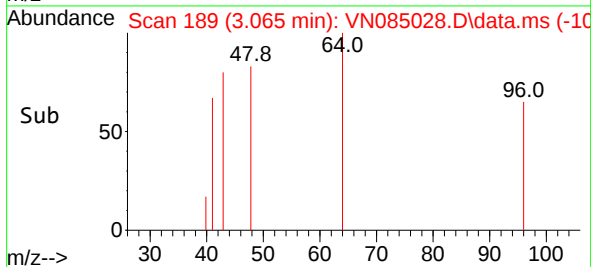
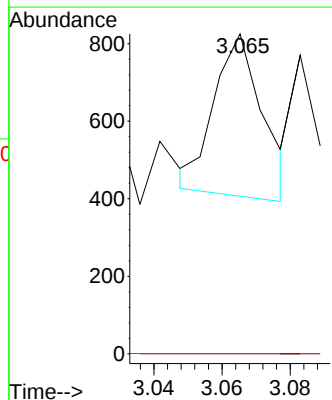
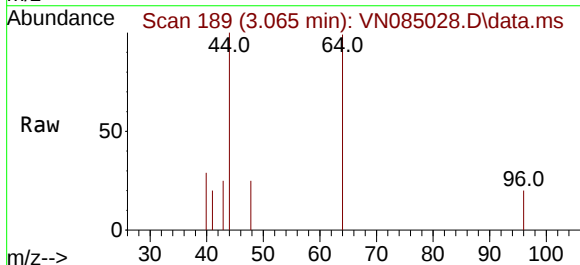
Instrument :  
MSVOA\_N  
ClientSampleId :

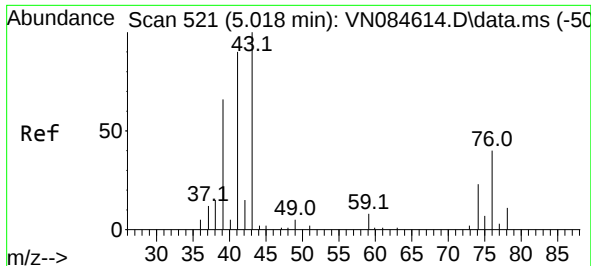
Tgt Ion:128 Resp: 23409  
Ion Ratio Lower Upper  
128 100  
49 168.3 0.0 427.0  
130 129.2 0.0 322.2



#6  
Chloroethane  
Concen: 0.409 ug/l  
RT: 3.065 min Scan# 189  
Delta R.T. 0.006 min  
Lab File: VN085028.D  
Acq: 25 Nov 2024 14:02

Tgt Ion: 64 Resp: 409  
Ion Ratio Lower Upper  
64 100  
66 0.0 22.1 33.1#





#12

Methyl Acetate

Concen: 0.522 ug/l

RT: 5.024 min Scan# 511

Delta R.T. 0.006 min

Lab File: VN085028.D

Acq: 25 Nov 2024 14:02

Instrument :

MSVOA\_N

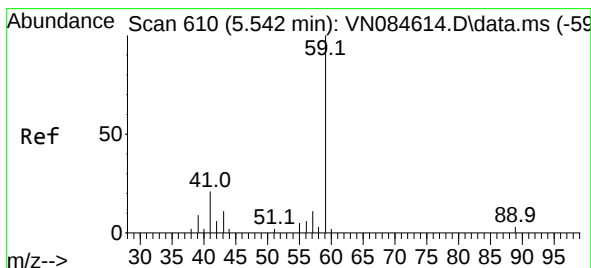
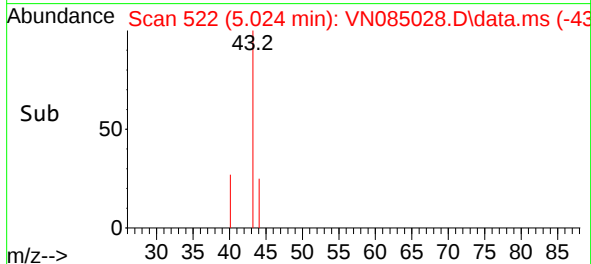
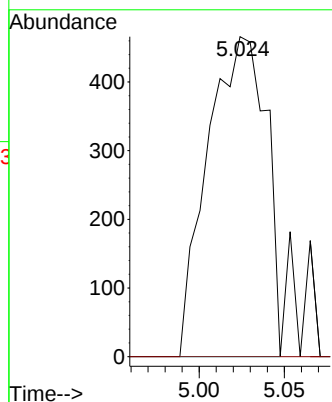
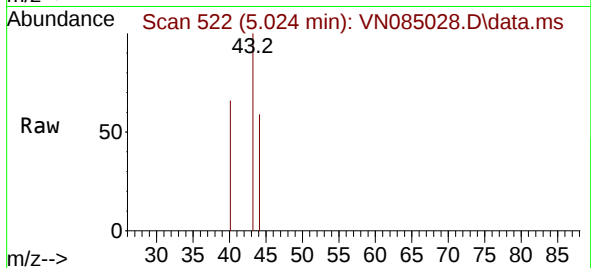
ClientSampleId :

Tgt Ion: 43 Resp: 1111

Ion Ratio Lower Upper

43 100

74 0.0 19.0 28.4#



#23

tert-Butyl Alcohol

Concen: 13.954 ug/l

RT: 5.495 min Scan# 602

Delta R.T. -0.047 min

Lab File: VN085028.D

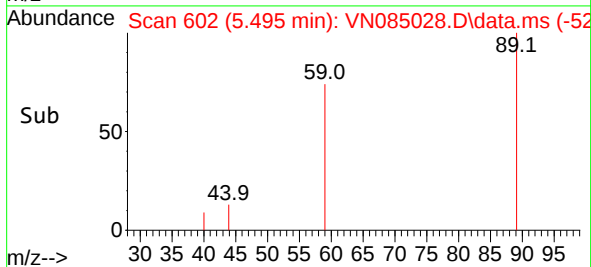
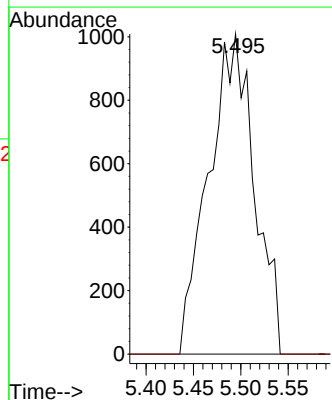
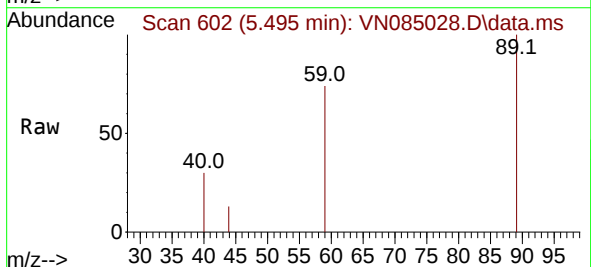
Acq: 25 Nov 2024 14:02

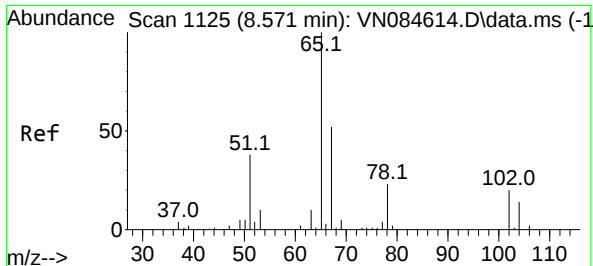
Tgt Ion: 59 Resp: 3389

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

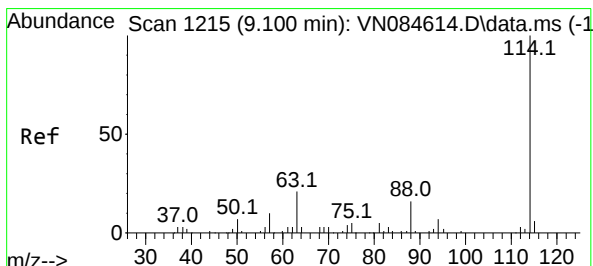
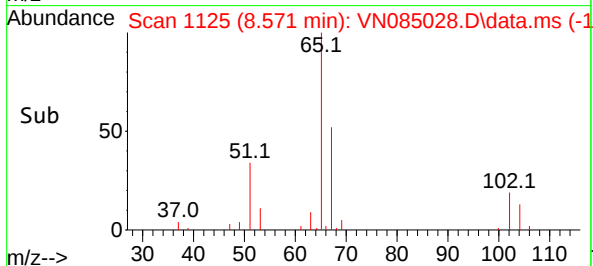
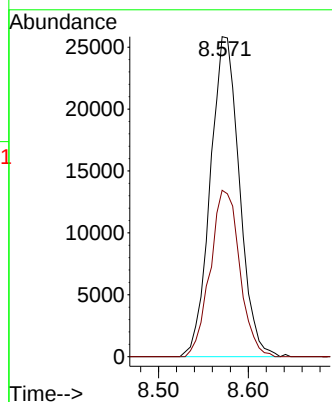
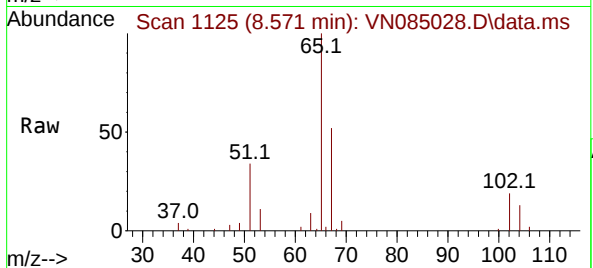




#27  
1,2-Dichloroethane-d4  
Concen: 30.917 ug/l  
RT: 8.571 min Scan# 1125  
Delta R.T. 0.000 min  
Lab File: VN085028.D  
Acq: 25 Nov 2024 14:02

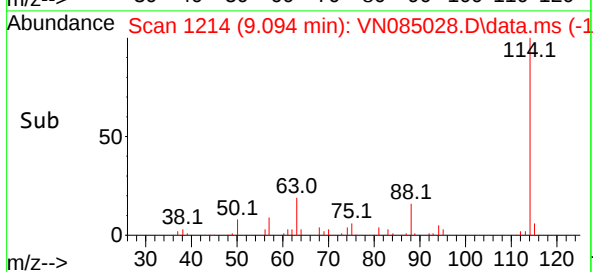
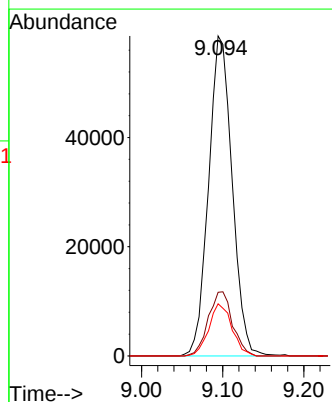
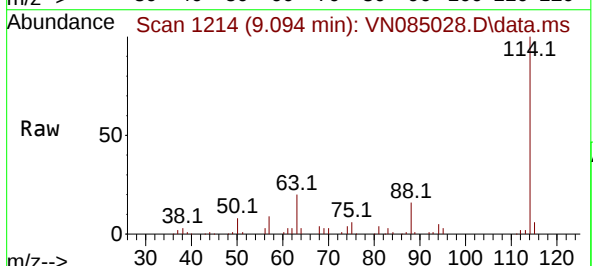
Instrument :  
MSVOA\_N  
ClientSampleId :

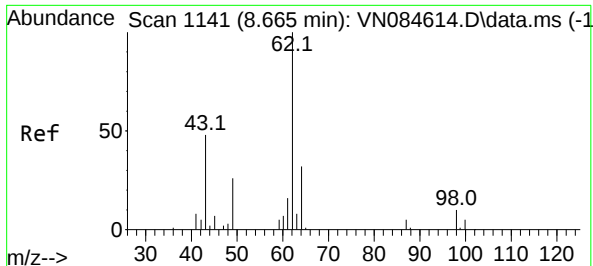
Tgt Ion: 65 Resp: 58185  
Ion Ratio Lower Upper  
65 100  
67 52.7 40.7 61.1



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.094 min Scan# 1214  
Delta R.T. -0.006 min  
Lab File: VN085028.D  
Acq: 25 Nov 2024 14:02

Tgt Ion: 114 Resp: 118400  
Ion Ratio Lower Upper  
114 100  
63 20.6 16.8 25.2  
88 16.0 12.9 19.3





#36

1,2-Dichloroethane

Concen: 2.092 ug/l

RT: 9.100 min Scan# 1141

Delta R.T. 0.435 min

Lab File: VN085028.D

Acq: 25 Nov 2024 14:02

Instrument :

MSVOA\_N

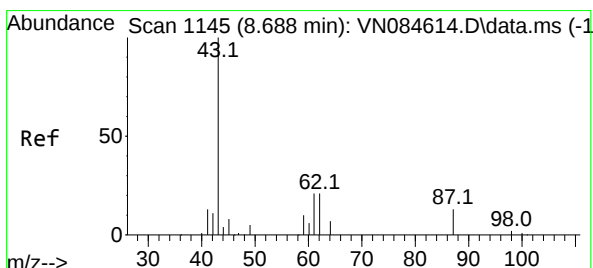
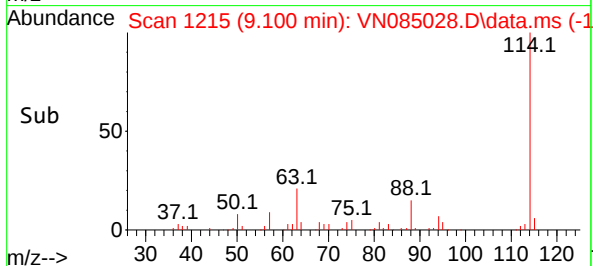
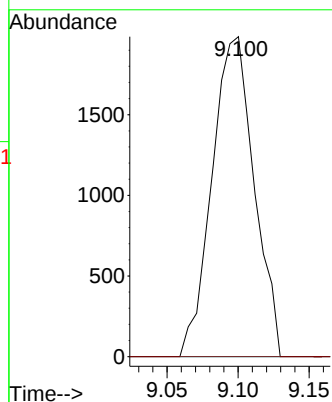
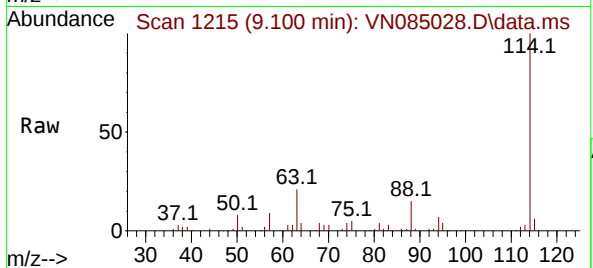
ClientSampleId :

Tgt Ion: 62 Resp: 4100

Ion Ratio Lower Upper

62 100

98 0.0 7.8 11.6#



#44

Isopropyl Acetate

Concen: 0.365 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.006 min

Lab File: VN085028.D

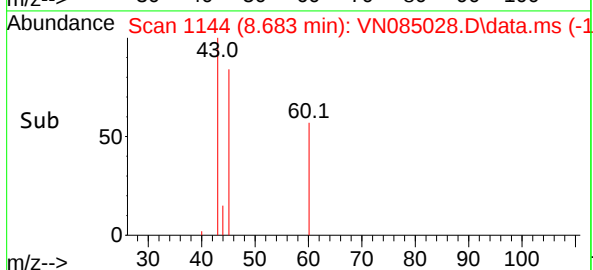
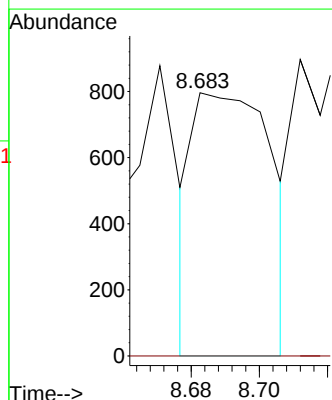
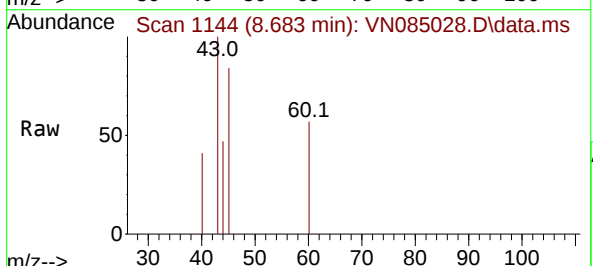
Acq: 25 Nov 2024 14:02

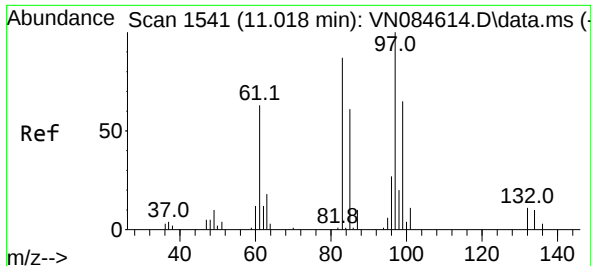
Tgt Ion: 43 Resp: 1276

Ion Ratio Lower Upper

43 100

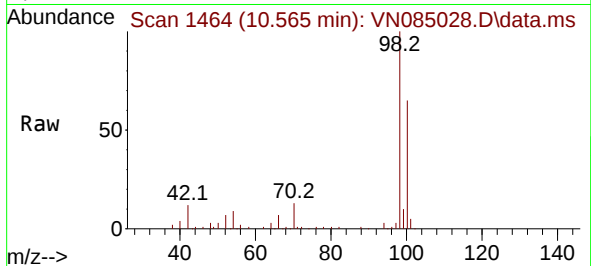
61 0.0 19.8 29.8#



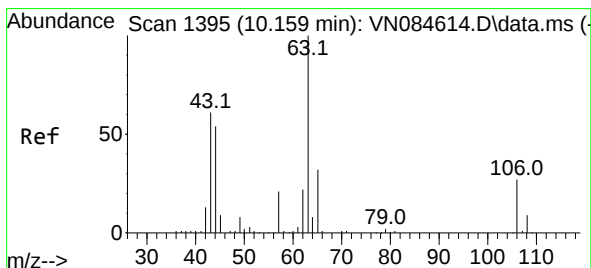
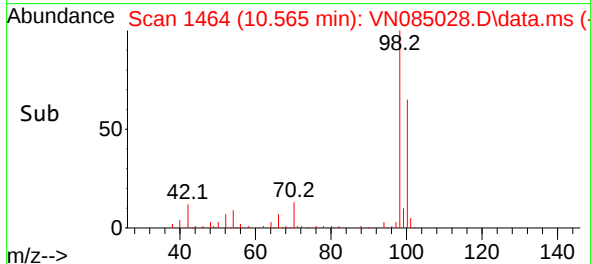
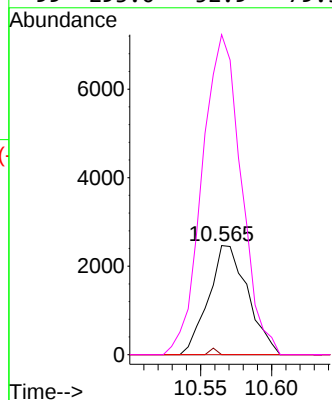


#50  
1,1,2-Trichloroethane  
Concen: 3.548 ug/l  
RT: 10.565 min Scan# 14  
Delta R.T. -0.453 min  
Lab File: VN085028.D  
Acq: 25 Nov 2024 14:02

Instrument :  
MSVOA\_N  
ClientSampleId :

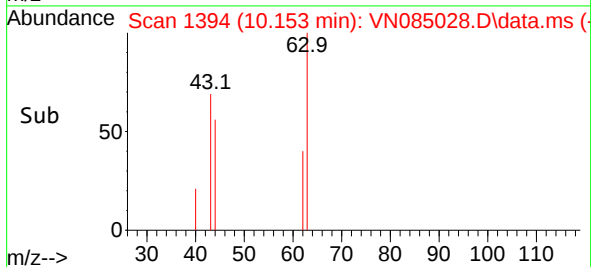
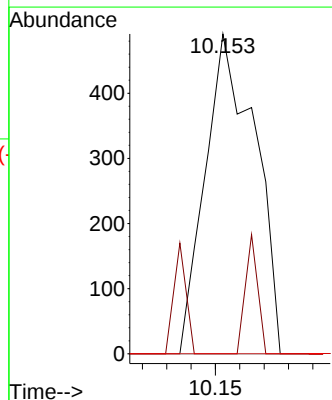
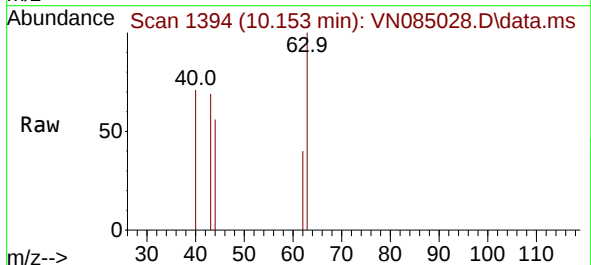


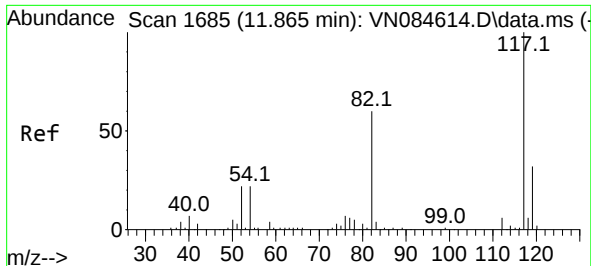
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 4724   |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 0.0   | 69.8  | 104.8# |
| 85       | 0.0   | 48.6  | 73.0#  |
| 99       | 293.0 | 52.9  | 79.3#  |



#55  
2-Chloroethyl vinyl ether  
Concen: 0.693 ug/l  
RT: 10.153 min Scan# 1394  
Delta R.T. -0.006 min  
Lab File: VN085028.D  
Acq: 25 Nov 2024 14:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 697   |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 65       | 0.0   | 25.5  | 38.3# |
| 106      | 0.0   | 22.3  | 33.5# |





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN085028.D

Acq: 25 Nov 2024 14:02

Instrument :

MSVOA\_N

ClientSampleId :

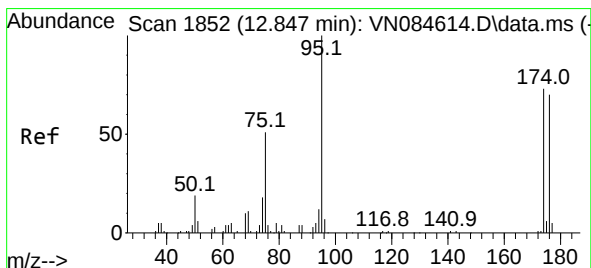
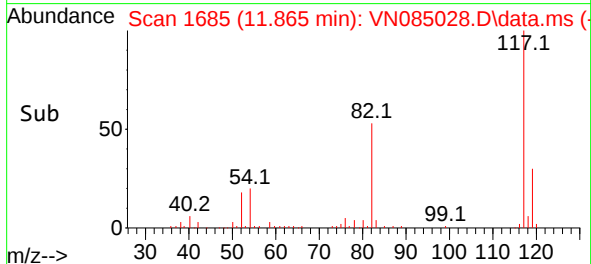
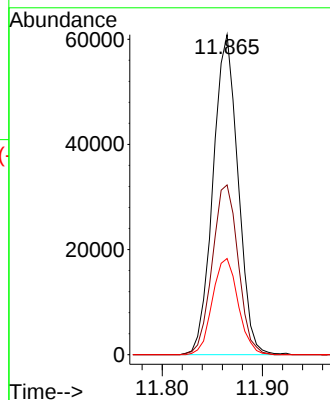
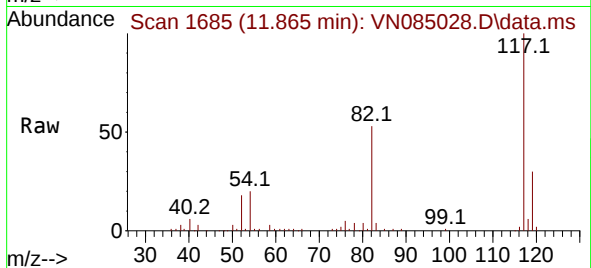
Tgt Ion:117 Resp: 105610

Ion Ratio Lower Upper

117 100

82 55.0 45.5 68.3

119 30.9 25.3 37.9



#60

4-Bromofluorobenzene

Concen: 23.843 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN085028.D

Acq: 25 Nov 2024 14:02

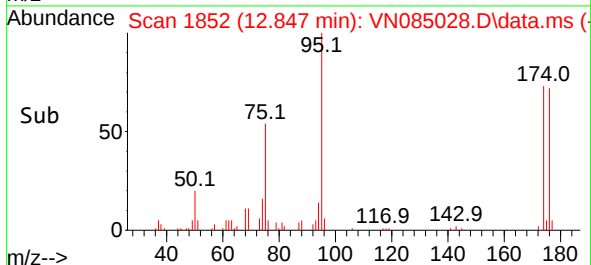
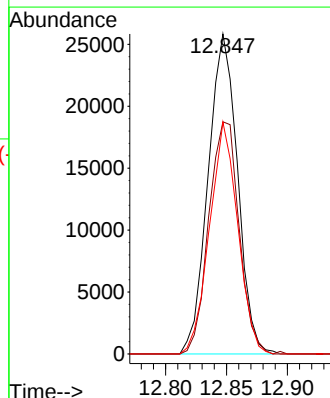
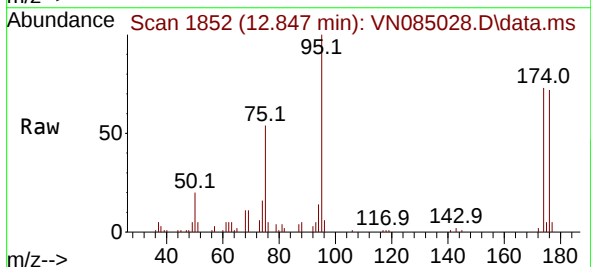
Tgt Ion: 95 Resp: 43357

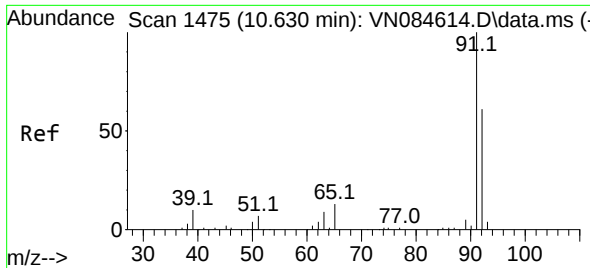
Ion Ratio Lower Upper

95 100

174 74.6 59.6 89.4

176 69.5 58.6 88.0

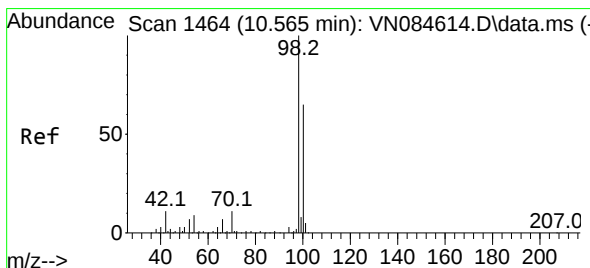
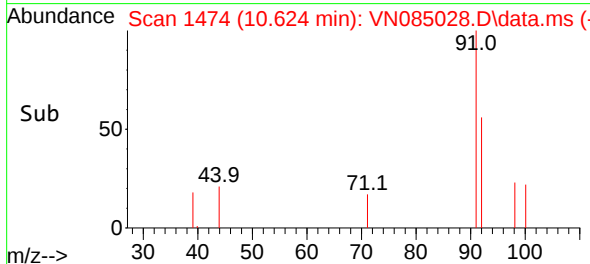
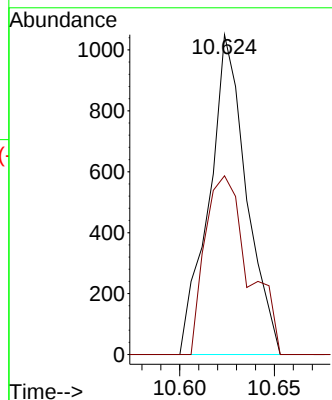
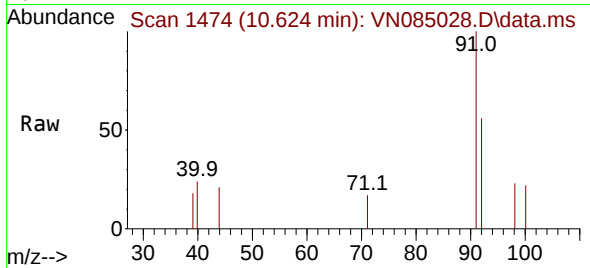




#62  
Toluene  
Concen: 0.239 ug/l  
RT: 10.624 min Scan# 1475  
Delta R.T. -0.006 min  
Lab File: VN085028.D  
Acq: 25 Nov 2024 14:02

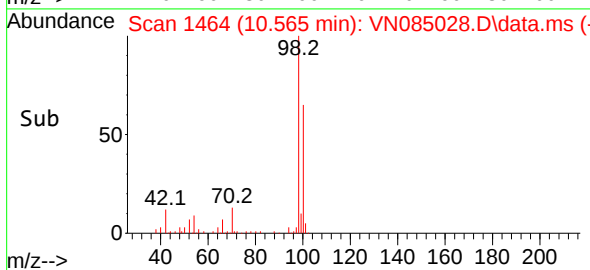
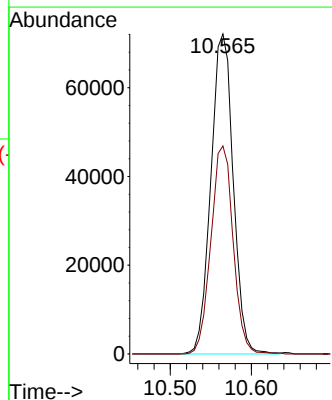
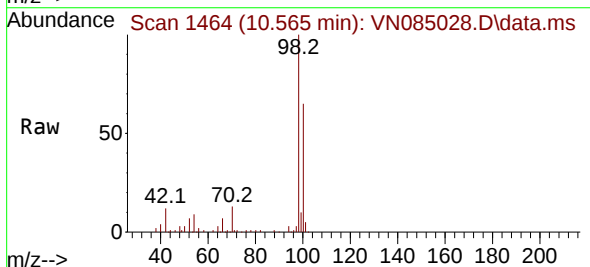
Instrument :  
MSVOA\_N  
ClientSampleId :

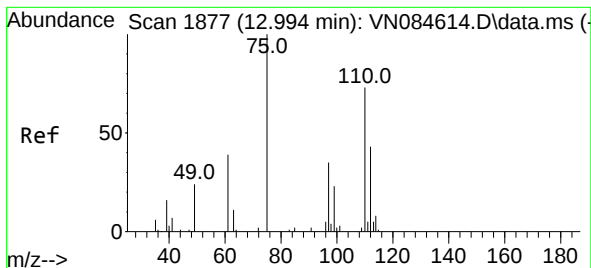
Tgt Ion: 91 Resp: 1438  
Ion Ratio Lower Upper  
91 100  
92 53.9 47.5 71.3



#63  
Toluene-d8  
Concen: 27.621 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VN085028.D  
Acq: 25 Nov 2024 14:02

Tgt Ion: 98 Resp: 138092  
Ion Ratio Lower Upper  
98 100  
100 64.5 52.2 78.2





#72

1,2,3-Trichloropropane

Concen: 14.256 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN085028.D

Acq: 25 Nov 2024 14:02

Instrument :

MSVOA\_N

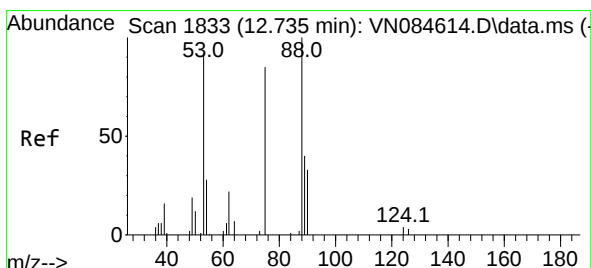
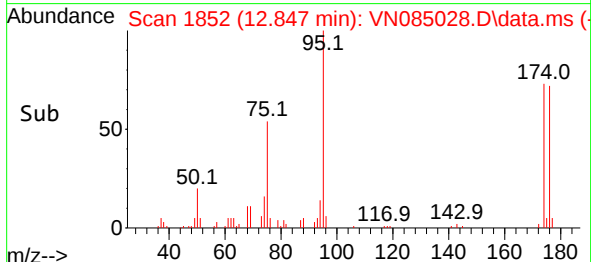
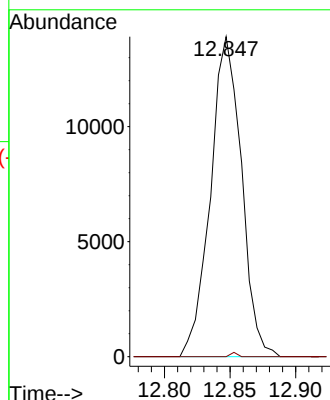
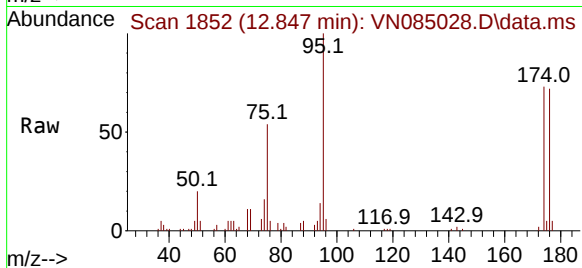
ClientSampleId :

Tgt Ion: 75 Resp: 22883

Ion Ratio Lower Upper

75 100

77 0.0 0.0 358.4



#77

t-1,4-Dichloro-2-butene

Concen: 34.760 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN085028.D

Acq: 25 Nov 2024 14:02

Tgt Ion: 75 Resp: 22883

Ion Ratio Lower Upper

75 100

53 0.0 52.4 157.2#

89 0.0 26.0 78.0#

