

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV112224\  
 Data File : VV038286.D  
 Acq On : 22 Nov 2024 22:43  
 Operator : SY/MD  
 Sample : P4930-02  
 Misc : 25mL/MSVOA\_V/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG440

Quant Time: Nov 23 02:06:31 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111924WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Sat Nov 23 02:01:29 2024  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| -----                      |        |      |          |       |       |          |
| Internal Standards         |        |      |          |       |       |          |
| 1) 1,4-Difluorobenzene     | 5.529  | 114  | 238832   | 5.000 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.780  | 117  | 265051   | 5.000 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.178 | 152  | 108498   | 5.000 | ug/L  | 0.00     |

|                               |        |       |          |          |      |          |
|-------------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds   |        |       |          |          |      |          |
| 4) Vinyl Chloride-d3          | 1.275  | 65    | 64465    | 3.522    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =    | 70.400%  |
| 7) Chloroethane-d5            | 1.529  | 69    | 67360    | 4.549    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =    | 91.000%  |
| 11) 1,1-Dichloroethene-d2     | 2.053  | 65    | 30490    | 3.870    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =    | 77.400%  |
| 20) 2-Butanone-d5             | 3.786  | 46    | 214127   | 58.472   | ug/L | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =    | 116.940% |
| 24) Chloroform-d              | 4.240  | 84    | 166359   | 4.683    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =    | 93.600%  |
| 26) 1,2-Dichloroethane-d4     | 4.937  | 65    | 83817    | 5.258    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =    | 105.200% |
| 32) Benzene-d6                | 4.950  | 84    | 285020   | 4.161    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =    | 83.200%  |
| 36) 1,2-Dichloropropane-d6    | 5.982  | 67    | 102652   | 4.870    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =    | 97.400%  |
| 41) Toluene-d8                | 7.240  | 98    | 216989   | 3.423    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =    | 68.400%# |
| 43) trans-1,3-Dichloroprop... | 7.558  | 79    | 31264    | 3.989    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =    | 79.800%  |
| 46) 2-Hexanone-d5             | 8.018  | 63    | 168086   | 55.175   | ug/L | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =    | 110.340% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.146 | 84    | 86123    | 4.813    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =    | 96.200%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.554 | 152   | 91328    | 4.940    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =    | 98.800%  |

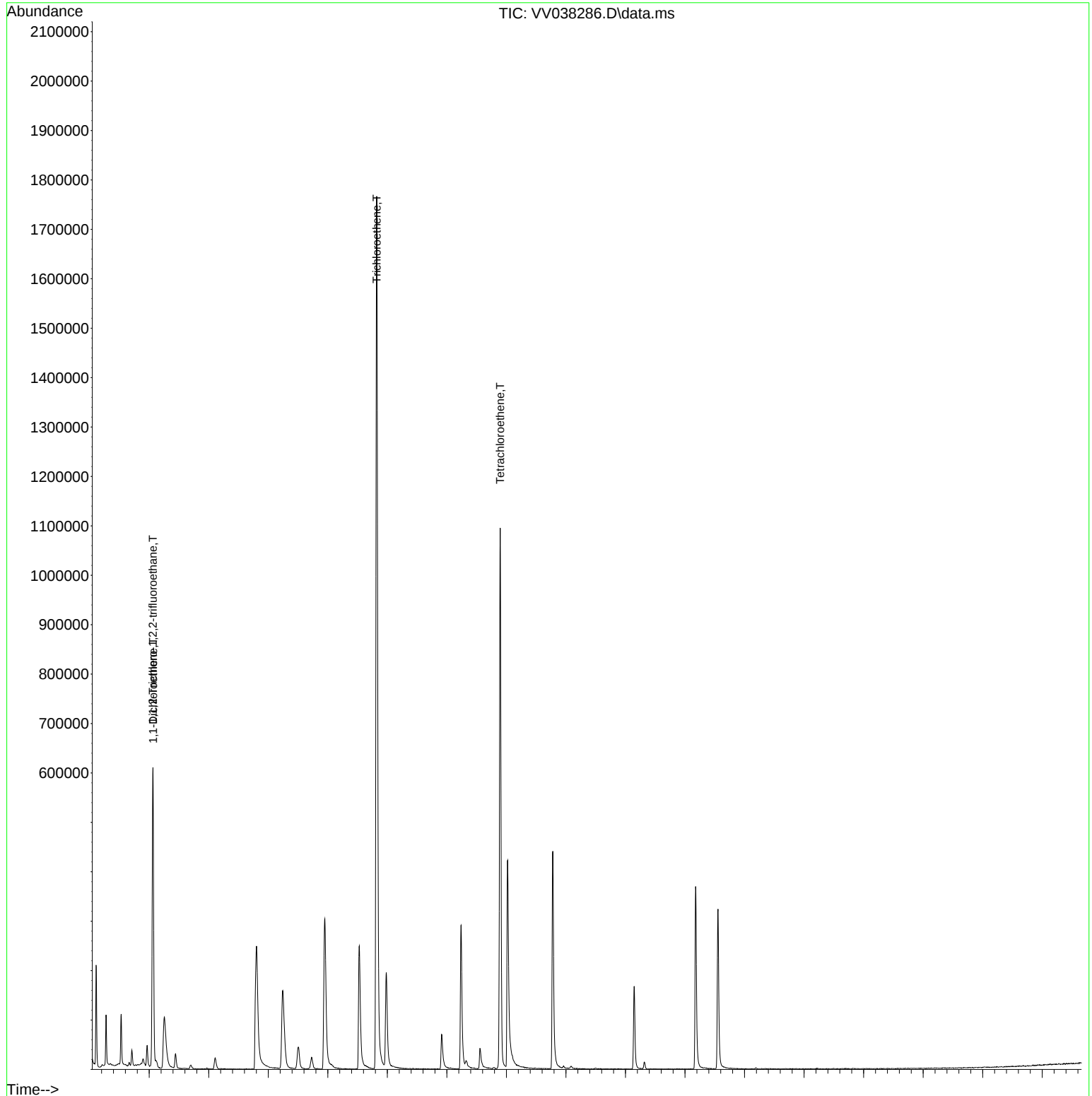
|                               |       |     |        |        |        |     |
|-------------------------------|-------|-----|--------|--------|--------|-----|
| Target Compounds              |       |     |        | Qvalue |        |     |
| 2) Dichlorodifluoromethane    | 1.105 | 85  | 11524  | 0.510  | ug/L   | 99  |
| 9) Trichlorofluoromethane     | 1.709 | 101 | 17754  | 0.566  | ug/L   | 99  |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.063 | 101 | 40069  | 2.238  | ug/L   | 96  |
| 12) 1,1-Dichloroethene        | 2.066 | 96  | 118618 | 6.954  | ug/L # | 77  |
| 16) Methylene chloride        | 2.442 | 84  | 12629  | 0.649  | ug/L   | 94  |
| 19) 1,1-Dichloroethane        | 3.108 | 63  | 24062  | 0.738  | ug/L   | 98  |
| 22) cis-1,2-Dichloroethene    | 3.806 | 96  | 106096 | 5.710  | ug/L   | 98  |
| 25) Chloroform                | 4.272 | 83  | 52093  | 1.493  | ug/L   | 100 |
| 27) 1,2-Dichloroethane        | 5.060 | 62  | 5120   | 0.270  | ug/L # | 85  |
| 29) 1,1,1-Trichloroethane     | 4.507 | 97  | 38801  | 1.221  | ug/L   | 97  |
| 31) Carbon tetrachloride      | 4.728 | 117 | 17678  | 0.630  | ug/L   | 96  |
| 34) Trichloroethene           | 5.822 | 95  | 648010 | 31.929 | ug/L   | 99  |
| 42) Toluene                   | 7.326 | 91  | 12771  | 0.162  | ug/L   | 98  |
| 47) Tetrachloroethene         | 7.895 | 164 | 240848 | 14.768 | ug/L   | 99  |
| 51) Chlorobenzene             | 8.815 | 112 | 7790   | 0.143  | ug/L # | 92  |

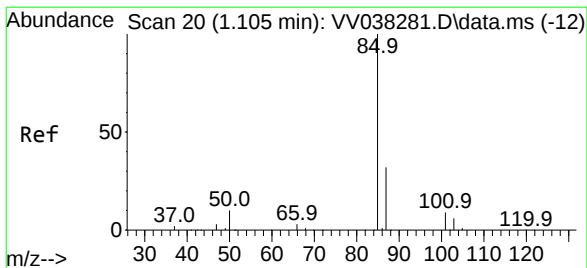
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV112224\  
Data File : VV038286.D  
Acq On : 22 Nov 2024 22:43  
Operator : SY/MD  
Sample : P4930-02  
Misc : 25mL/MSVOA\_V/WATER  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BG440

Quant Time: Nov 23 02:06:31 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111924WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Sat Nov 23 02:01:29 2024  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.510 ug/L

RT: 1.105 min Scan# 20

Delta R.T. 0.000 min

Lab File: VV038286.D

Acq: 22 Nov 2024 22:43

Instrument :

MSVOA\_V

ClientSampleId :

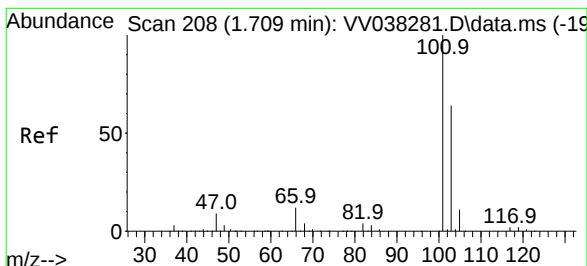
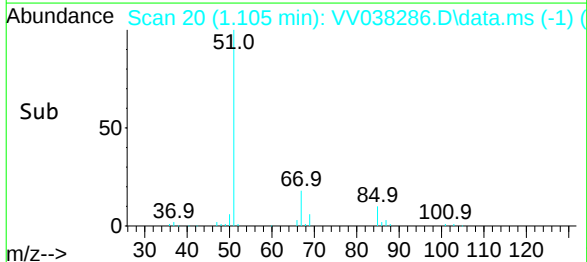
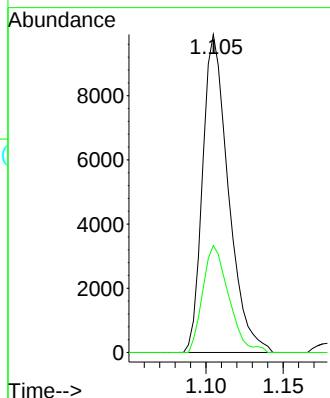
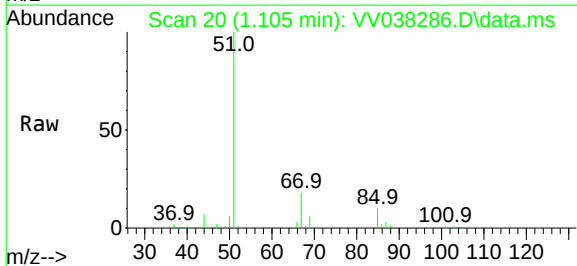
BG440

Tgt Ion: 85 Resp: 11524

Ion Ratio Lower Upper

85 100

87 33.8 26.5 39.7



#9

Trichlorofluoromethane

Concen: 0.566 ug/L

RT: 1.709 min Scan# 208

Delta R.T. 0.000 min

Lab File: VV038286.D

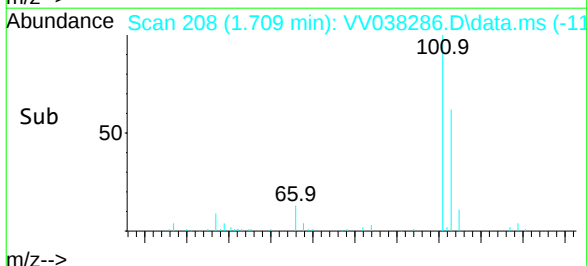
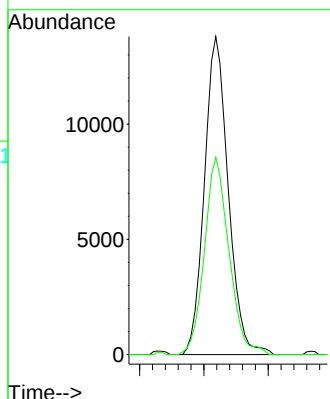
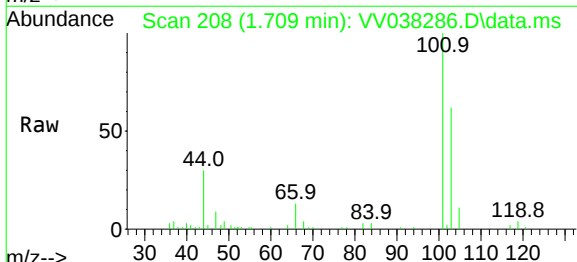
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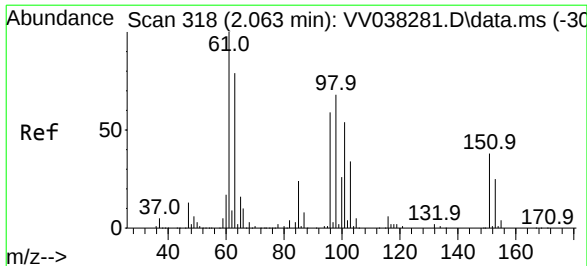
Tgt Ion: 101 Resp: 17754

Ion Ratio Lower Upper

101 100

103 63.9 51.5 77.3

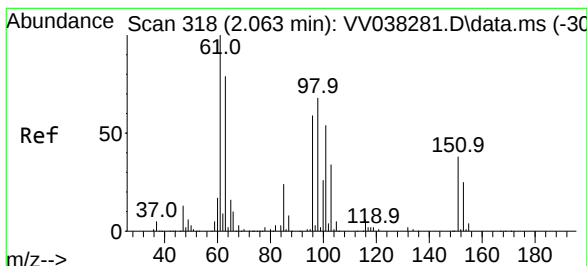
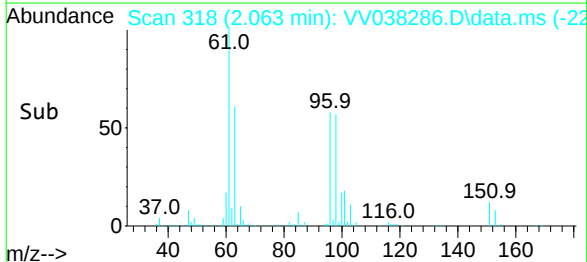
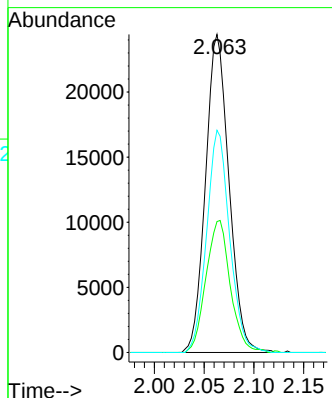
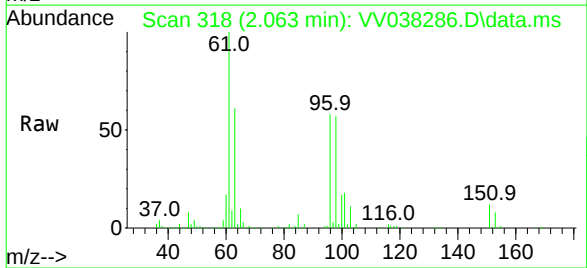




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 2.238 ug/L  
RT: 2.063 min Scan# 318  
Delta R.T. 0.000 min  
Lab File: VV038286.D  
Acq: 22 Nov 2024 22:43

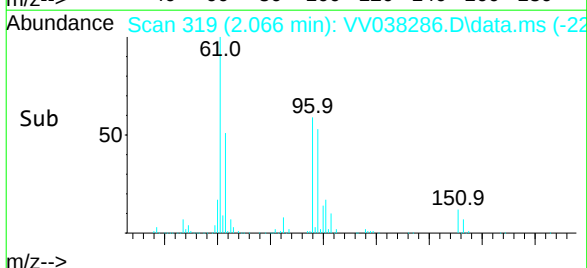
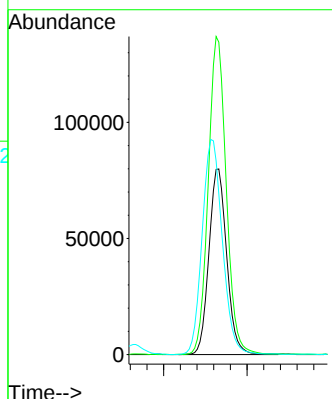
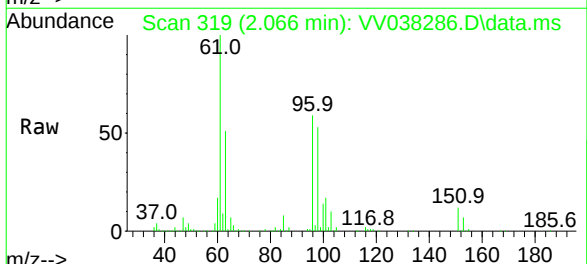
Instrument :  
MSVOA\_V  
ClientSampleId :  
BG440

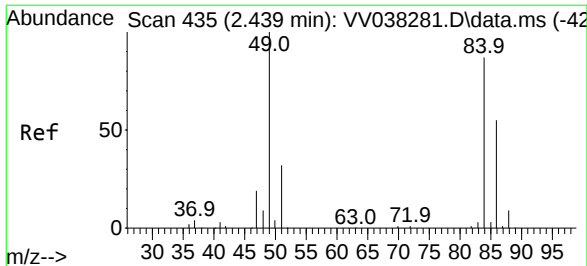
Tgt Ion: 101 Resp: 40069  
Ion Ratio Lower Upper  
101 100  
85 43.0 33.4 50.0  
151 68.7 58.8 88.2



#12  
1,1-Dichloroethene  
Concen: 6.954 ug/L  
RT: 2.066 min Scan# 319  
Delta R.T. 0.003 min  
Lab File: VV038286.D  
Acq: 22 Nov 2024 22:43

Tgt Ion: 96 Resp: 118618  
Ion Ratio Lower Upper  
96 100  
61 168.3 115.7 214.9  
63 86.6 101.1 187.7#





#16

Methylene chloride

Concen: 0.649 ug/L

RT: 2.442 min Scan# 43

Delta R.T. 0.003 min

Lab File: VV038286.D

Acq: 22 Nov 2024 22:43

Instrument :

MSVOA\_V

ClientSampleId :

BG440

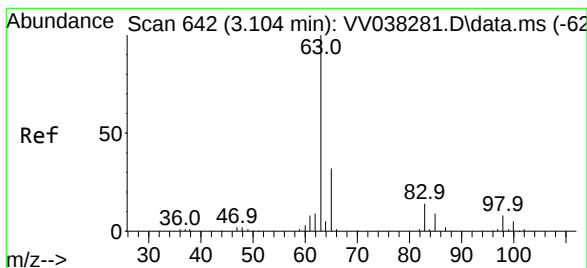
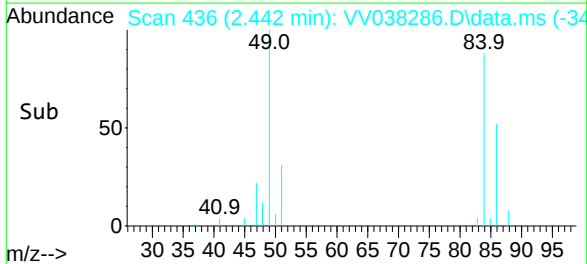
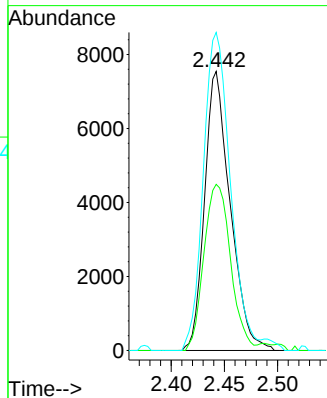
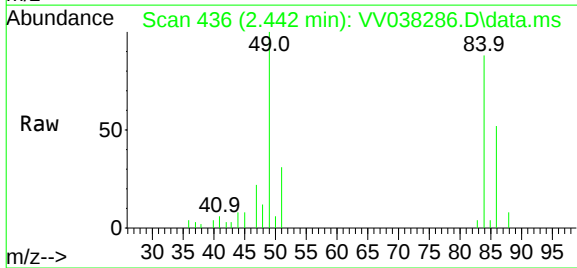
Tgt Ion: 84 Resp: 12629

Ion Ratio Lower Upper

84 100

86 59.5 44.2 82.2

49 114.0 74.9 139.1



#19

1,1-Dichloroethane

Concen: 0.738 ug/L

RT: 3.108 min Scan# 643

Delta R.T. 0.003 min

Lab File: VV038286.D

Acq: 22 Nov 2024 22:43

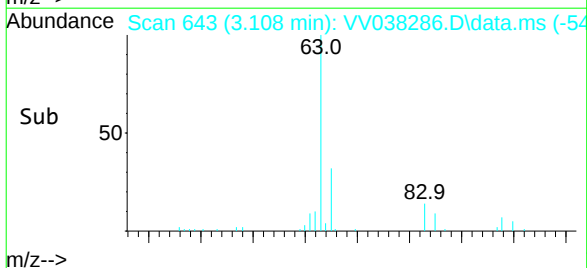
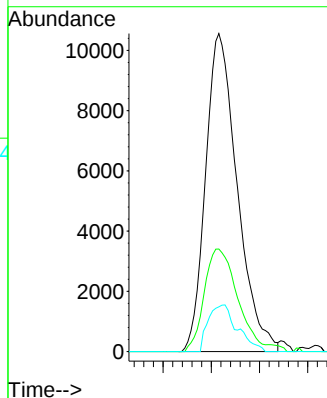
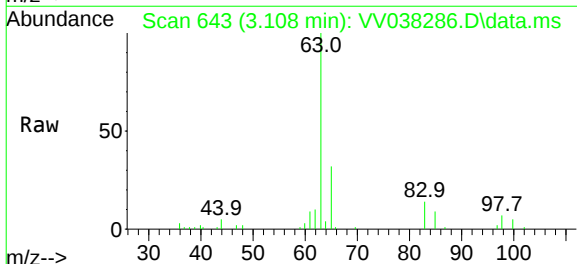
Tgt Ion: 63 Resp: 24062

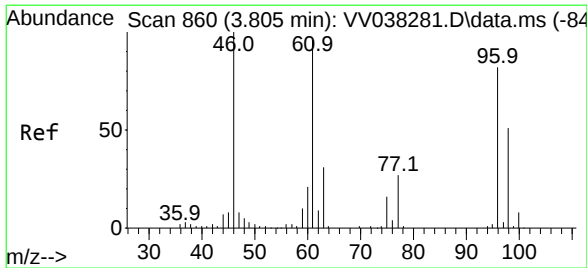
Ion Ratio Lower Upper

63 100

65 33.4 22.5 41.7

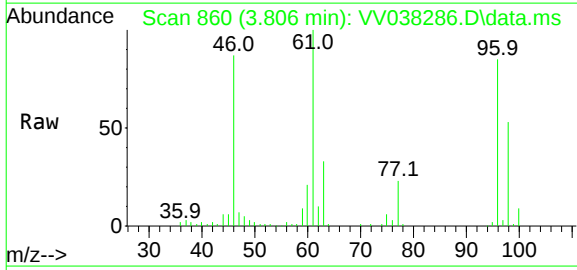
83 14.1 10.1 18.9



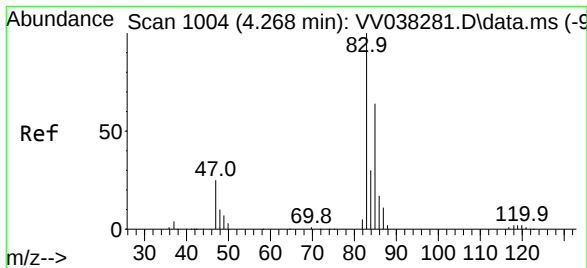
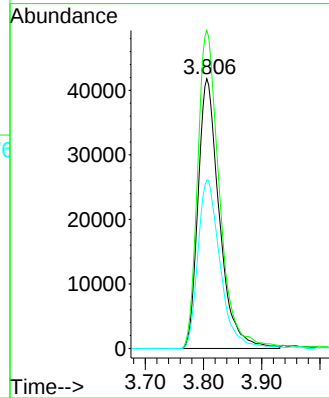
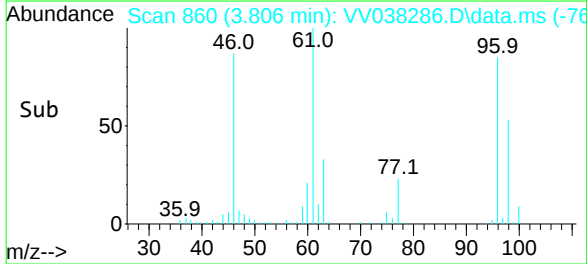


#22  
cis-1,2-Dichloroethene  
Concen: 5.710 ug/L  
RT: 3.806 min Scan# 860  
Delta R.T. 0.000 min  
Lab File: VV038286.D  
Acq: 22 Nov 2024 22:43

Instrument :  
MSVOA\_V  
ClientSampleId :  
BG440

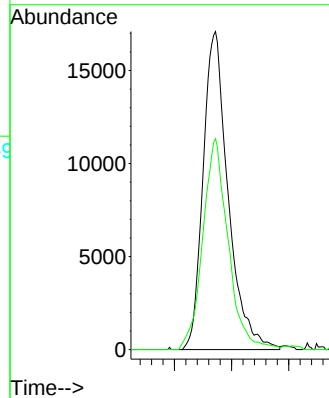
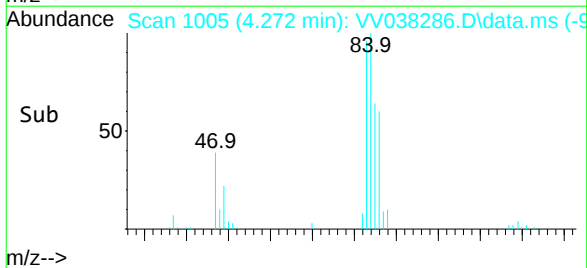
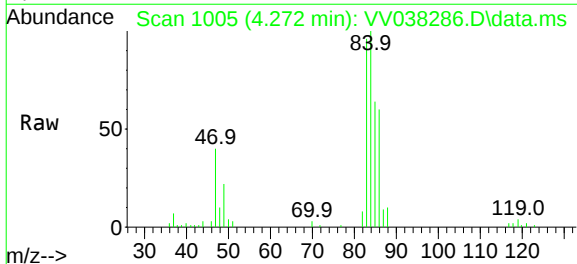


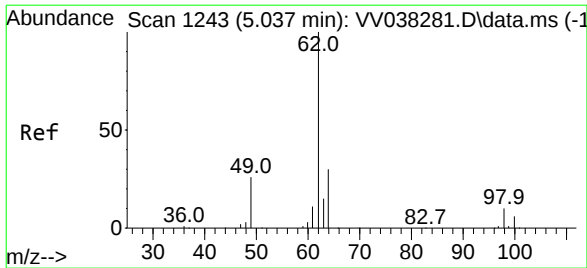
Tgt Ion: 96 Resp: 106096  
Ion Ratio Lower Upper  
96 100  
61 117.9 82.7 153.5  
98 62.5 46.3 85.9



#25  
Chloroform  
Concen: 1.493 ug/L  
RT: 4.272 min Scan# 1005  
Delta R.T. 0.003 min  
Lab File: VV038286.D  
Acq: 22 Nov 2024 22:43

Tgt Ion: 83 Resp: 52093  
Ion Ratio Lower Upper  
83 100  
85 66.3 46.5 86.3

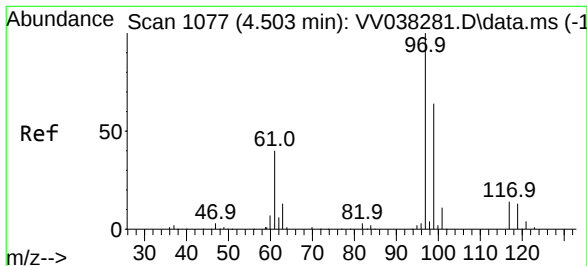
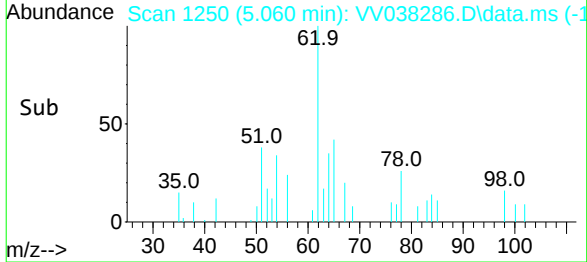
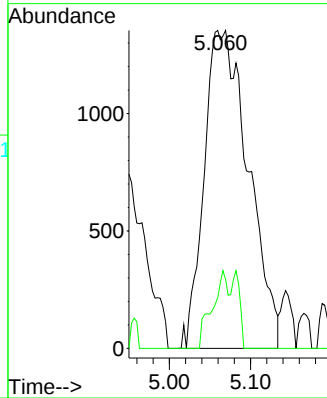
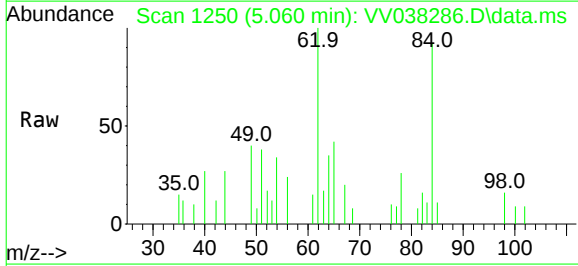




#27  
1,2-Dichloroethane  
Concen: 0.270 ug/L  
RT: 5.060 min Scan# 1243  
Delta R.T. 0.023 min  
Lab File: VV038286.D  
Acq: 22 Nov 2024 22:43

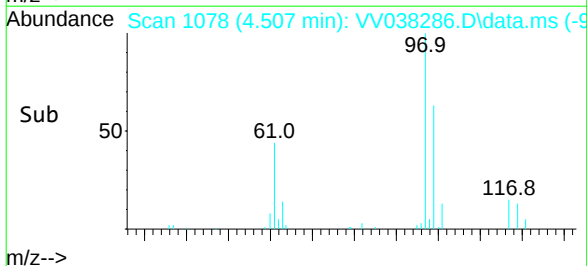
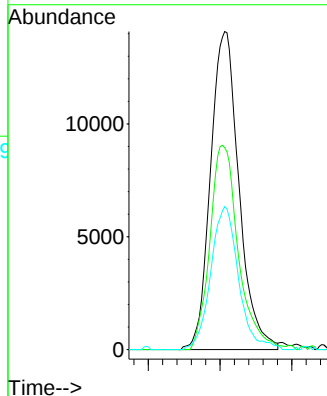
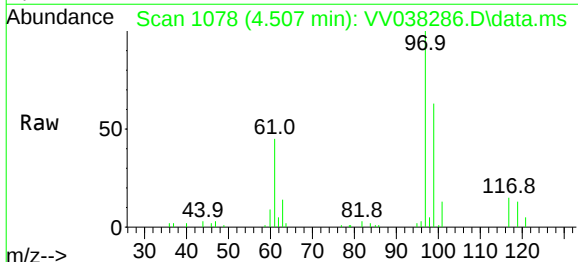
Instrument :  
MSVOA\_V  
ClientSampleId :  
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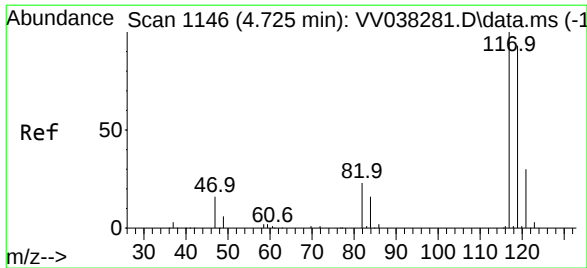
Tgt Ion: 62 Resp: 5120  
Ion Ratio Lower Upper  
62 100  
98 16.0 8.2 12.4#



#29  
1,1,1-Trichloroethane  
Concen: 1.221 ug/L  
RT: 4.507 min Scan# 1078  
Delta R.T. 0.003 min  
Lab File: VV038286.D  
Acq: 22 Nov 2024 22:43

Tgt Ion: 97 Resp: 38801  
Ion Ratio Lower Upper  
97 100  
99 64.2 51.8 77.8  
61 43.9 32.2 48.2





#31

Carbon tetrachloride

Concen: 0.630 ug/L

RT: 4.728 min Scan# 1146

Delta R.T. 0.003 min

Lab File: VV038286.D

Acq: 22 Nov 2024 22:43

Instrument :

MSVOA\_V

ClientSampleId :

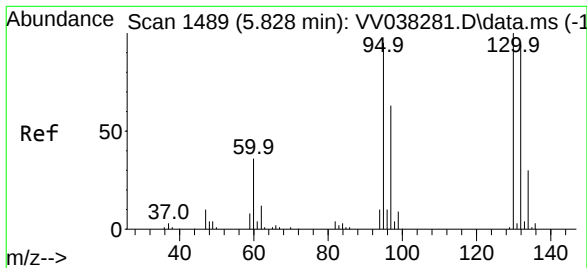
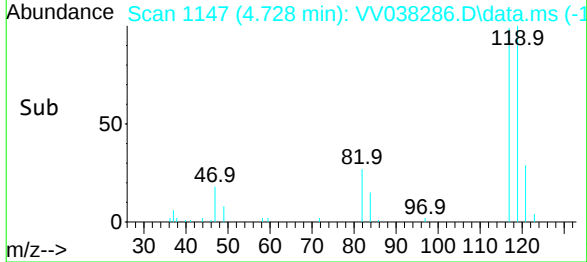
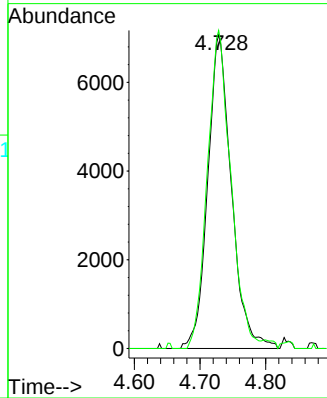
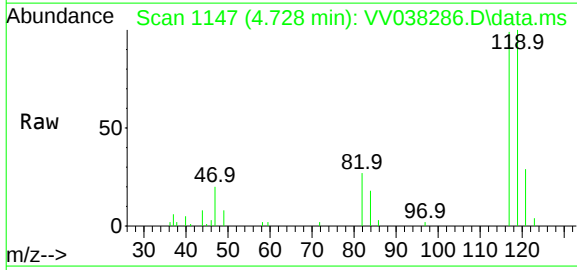
BG440

Tgt Ion:117 Resp: 17678

Ion Ratio Lower Upper

117 100

119 100.8 77.4 116.2



#34

Trichloroethene

Concen: 31.929 ug/L

RT: 5.822 min Scan# 1487

Delta R.T. -0.006 min

Lab File: VV038286.D

Acq: 22 Nov 2024 22:43

Tgt Ion: 95 Resp: 648010

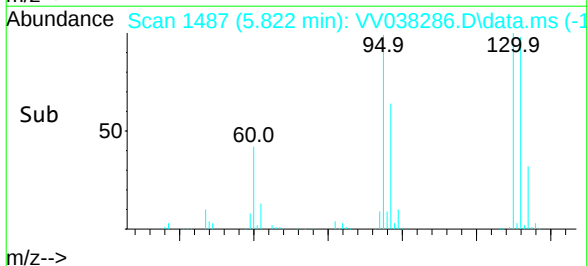
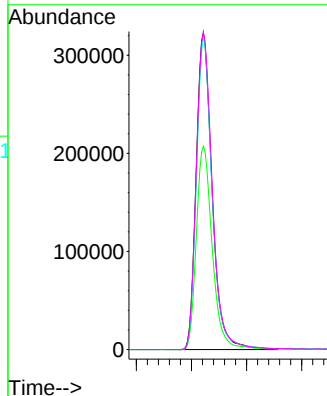
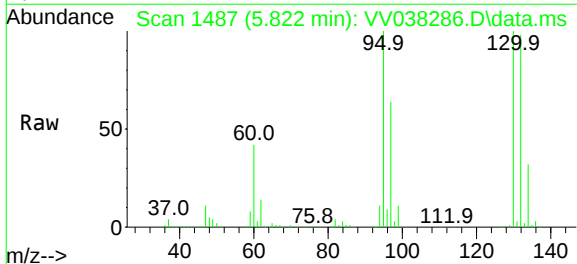
Ion Ratio Lower Upper

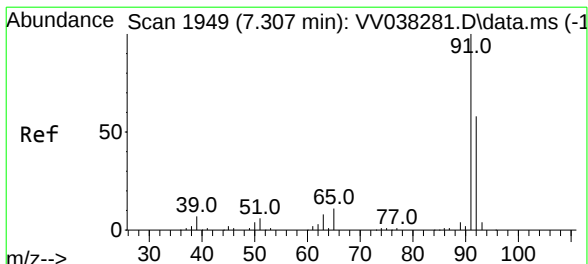
95 100

97 64.2 44.8 83.2

132 98.6 68.3 126.8

130 100.5 70.2 130.4

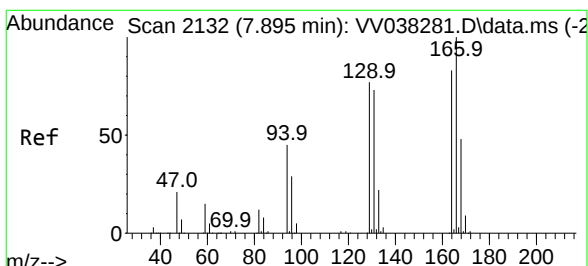
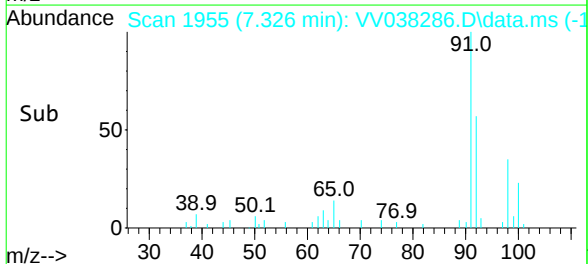
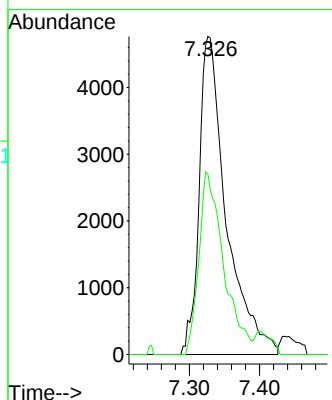
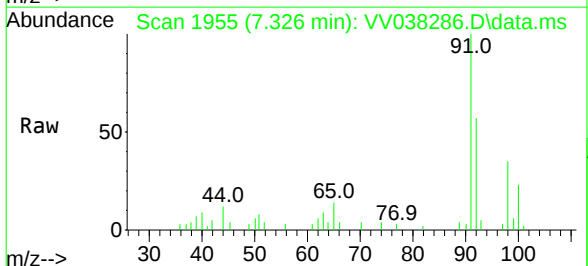




#42  
Toluene  
Concen: 0.162 ug/L  
RT: 7.326 min Scan# 19  
Delta R.T. 0.019 min  
Lab File: VV038286.D  
Acq: 22 Nov 2024 22:43

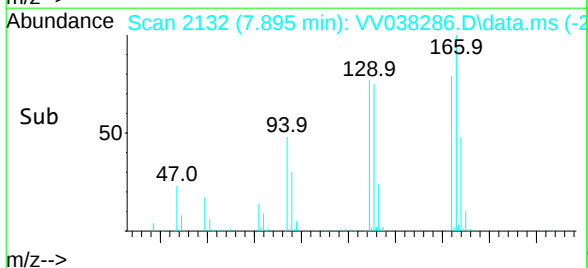
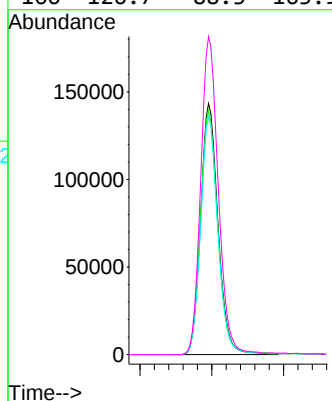
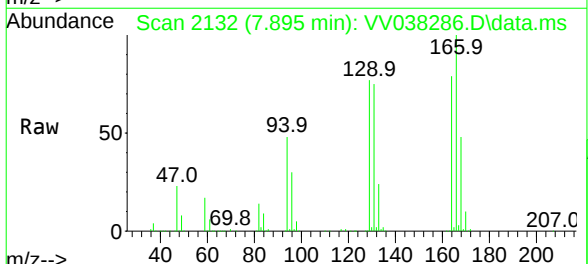
Instrument :  
MSVOA\_V  
ClientSampleId :  
BG440

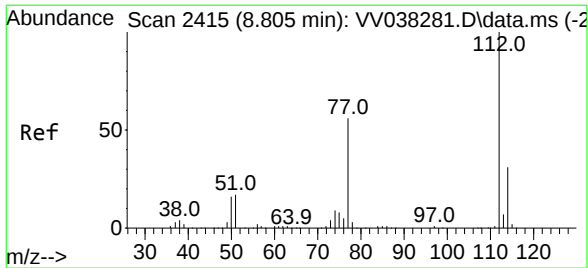
Tgt Ion: 91 Resp: 12771  
Ion Ratio Lower Upper  
91 100  
92 56.8 40.8 75.8



#47  
Tetrachloroethene  
Concen: 14.768 ug/L  
RT: 7.895 min Scan# 2132  
Delta R.T. 0.000 min  
Lab File: VV038286.D  
Acq: 22 Nov 2024 22:43

Tgt Ion: 164 Resp: 240848  
Ion Ratio Lower Upper  
164 100  
129 97.2 68.5 127.1  
131 94.8 64.8 120.4  
166 126.7 88.3 163.9





#51  
 Chlorobenzene  
 Concen: 0.143 ug/L  
 RT: 8.815 min Scan# 2418  
 Delta R.T. 0.010 min  
 Lab File: VV038286.D  
 Acq: 22 Nov 2024 22:43

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG440

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 7790  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 114      | 42.7  | 22.0  | 40.8# |
| 77       | 57.2  | 45.0  | 67.4  |

