

Data File : VX000896.D  
Acq On : 15 Apr 2018 14:55  
Operator : JC/MD  
Sample : ZHE-09 5X  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB108205ZHE#09 5X

Quant Time: Apr 16 07:38:17 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041018W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 10 15:49:28 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 275440   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 377098   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 343157   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 223848   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 164215   | 47.28 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.56% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 132955   | 45.76 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.52% |      |
| 50) Toluene-d8              | 8.72   | 98  | 522315   | 48.28 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.56% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 200829   | 44.87 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 89.74% |      |

|                                |       |     |       |              |  |    |
|--------------------------------|-------|-----|-------|--------------|--|----|
| Target Compounds               |       |     |       | Qvalue       |  |    |
| 5) Bromomethane                | 1.62  | 94  | 57    | Below Cal    |  | 84 |
| 10) Methyl Iodide              | 2.51  | 142 | 27    | 8.24 ug/l #  |  | 47 |
| 13) Acrolein                   | 2.31  | 56  | 303   | 1.01 ug/l #  |  | 20 |
| 15) Acrylonitrile              | 3.14  | 53  | 354   | 0.27 ug/l #  |  | 24 |
| 16) Acetone                    | 2.45  | 43  | 2876  | 2.40 ug/l    |  | 94 |
| 18) Methyl Acetate             | 2.78  | 43  | 4517  | 1.46 ug/l    |  | 98 |
| 20) Methylene Chloride         | 2.86  | 84  | 1273  | 0.46 ug/l #  |  | 86 |
| 25) 2-Butanone                 | 4.72  | 43  | 636   | 0.32 ug/l #  |  | 50 |
| 31) Cyclohexane                | 5.67  | 56  | 4575  | 1.00 ug/l #  |  | 1  |
| 36) 1,1-Dichloropropene        | 5.67  | 75  | 16487 | 3.97 ug/l #  |  | 48 |
| 38) Carbon Tetrachloride       | 5.67  | 117 | 23573 | 5.07 ug/l #  |  | 15 |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75  | 98759 | 25.58 ug/l # |  | 36 |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75  | 98759 | 70.37 ug/l # |  | 11 |

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

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ALS Vial : 9 Sample Multiplier: 1

Instrument :

MSVOA\_X

ClientSampleId :

PB108205ZHE#09 5X

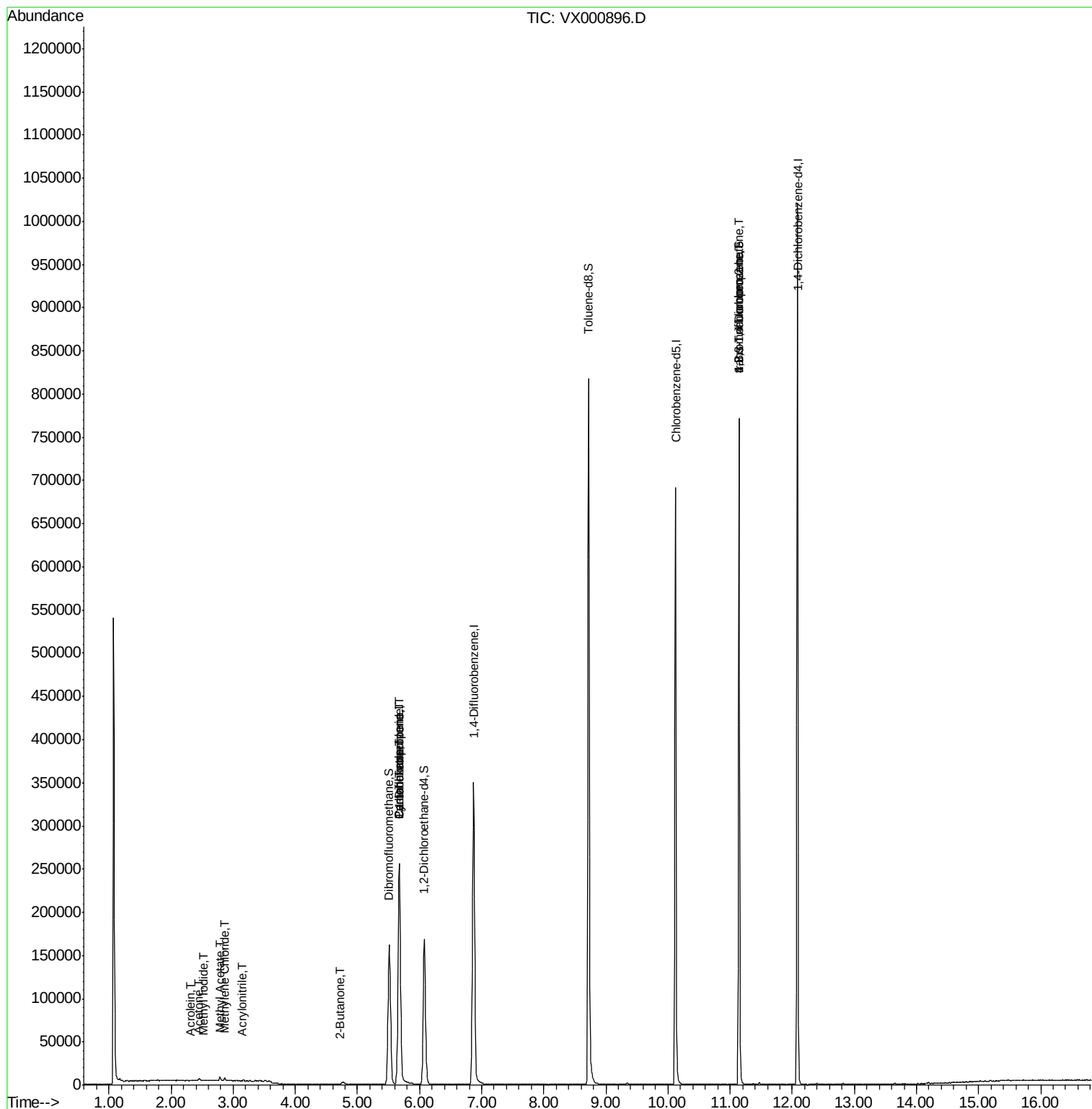
Quant Time: Apr 16 07:38:17 2018

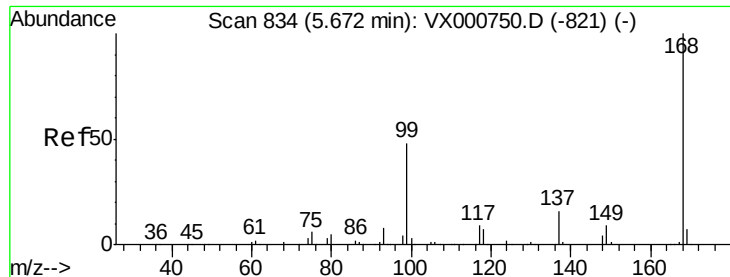
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041018W.M

Quant Title : SW846 8260

QLast Update : Tue Apr 10 15:49:28 2018

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX000896.D

Acq: 15 Apr 2018 14:55

Instrument :

MSVOA\_X

ClientSampleId :

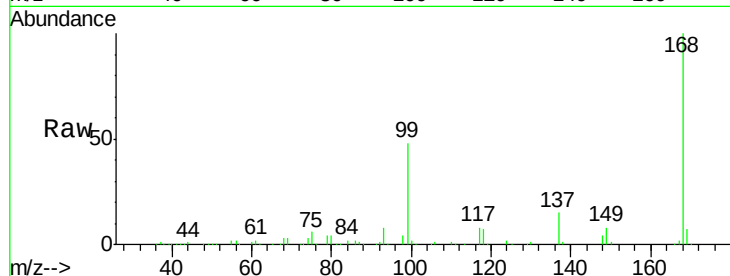
PB108205ZHE#09 5X

Tgt Ion:168 Resp: 275440

Ion Ratio Lower Upper

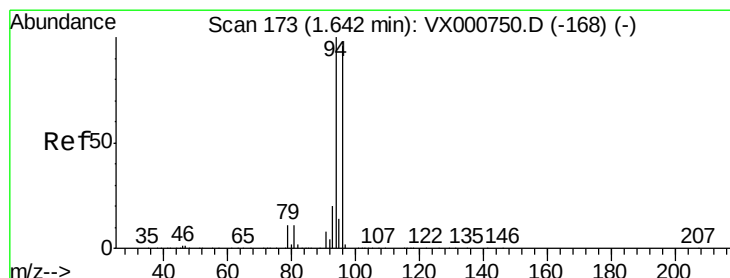
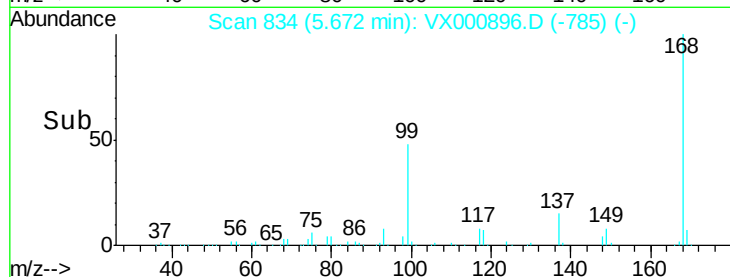
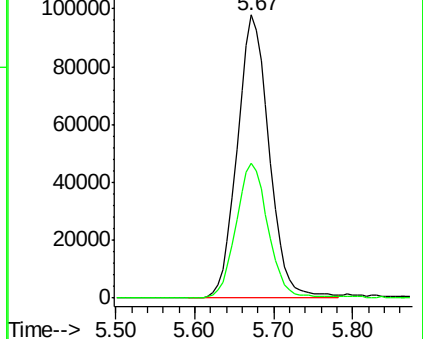
168 100

99 47.6 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 170

Delta R.T. -0.02 min

Lab File: VX000896.D

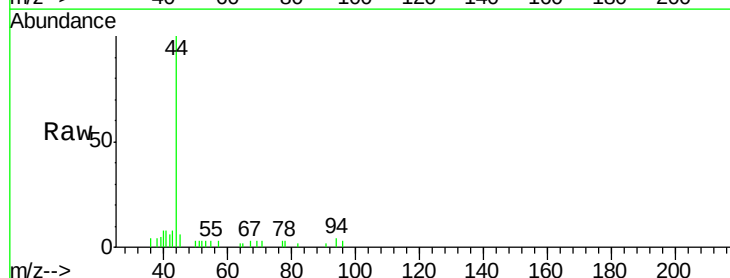
Acq: 15 Apr 2018 14:55

Tgt Ion: 94 Resp: 57

Ion Ratio Lower Upper

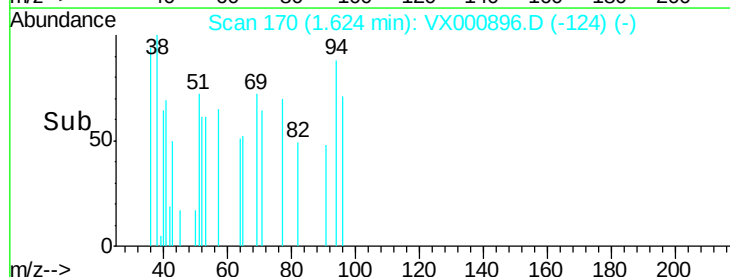
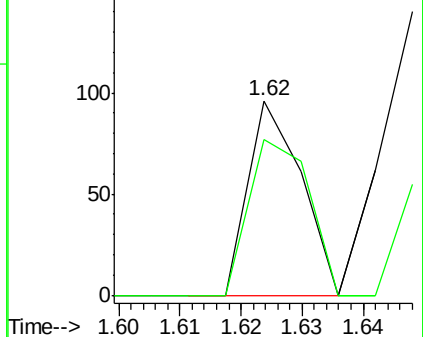
94 100

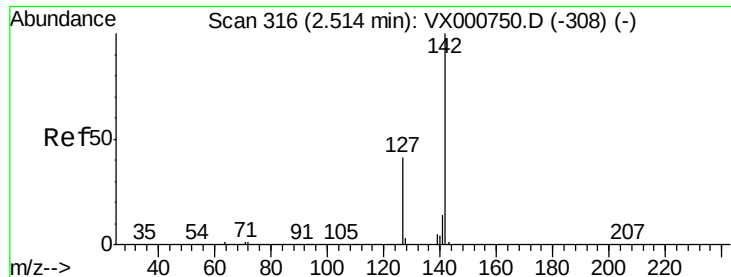
96 80.2 77.0 115.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

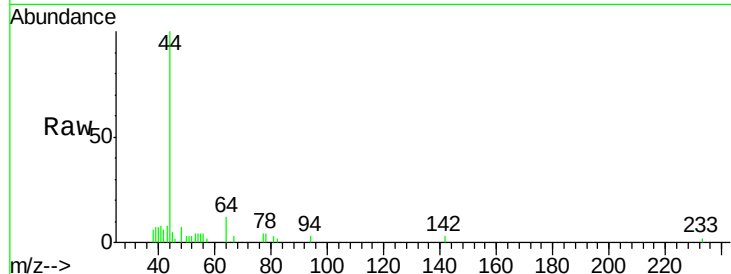




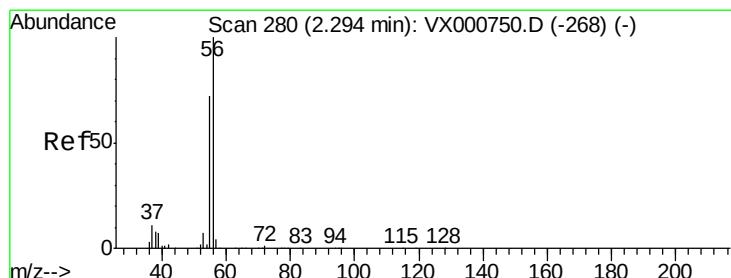
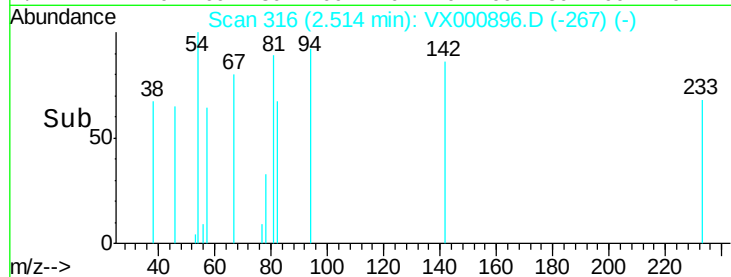
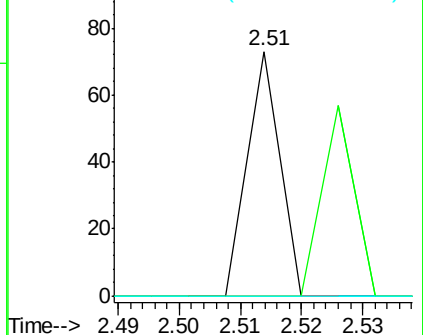
#10  
Methyl Iodide  
Concen: 8.24 ug/l  
RT: 2.51 min Scan# 316  
Delta R.T. 0.00 min  
Lab File: VX000896.D  
Acq: 15 Apr 2018 14:55

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB108205ZHE#09 5X

Tgt Ion: 142 Resp: 27  
Ion Ratio Lower Upper  
142 100  
127 77.8 32.6 49.0#  
141 0.0 11.5 17.3#

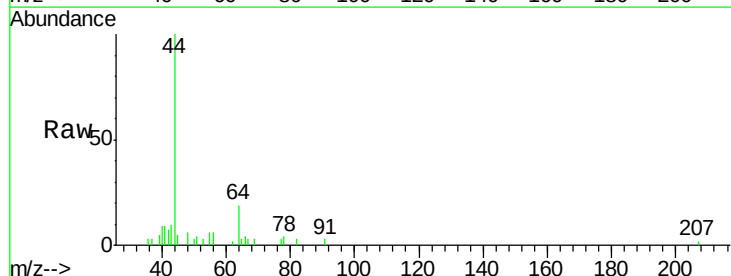


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

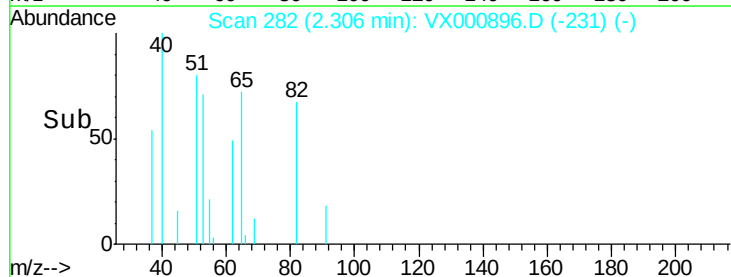
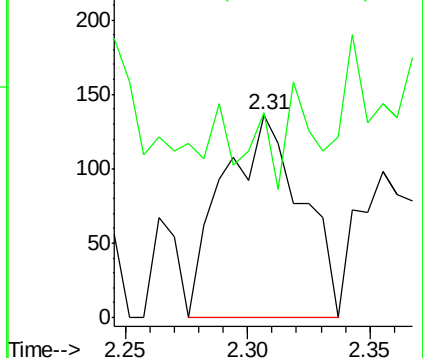


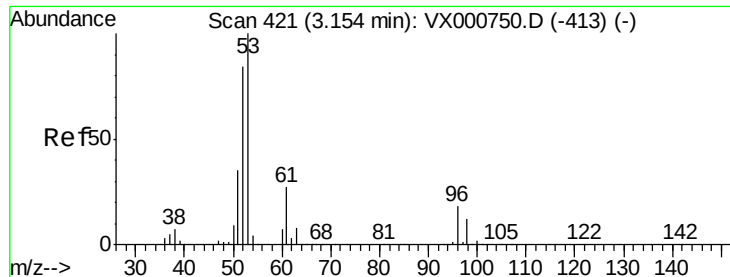
#13  
Acrolein  
Concen: 1.01 ug/l  
RT: 2.31 min Scan# 282  
Delta R.T. 0.01 min  
Lab File: VX000896.D  
Acq: 15 Apr 2018 14:55

Tgt Ion: 56 Resp: 303  
Ion Ratio Lower Upper  
56 100  
55 6.3 58.7 88.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 55.00 (54.70 to 55.70): VX0

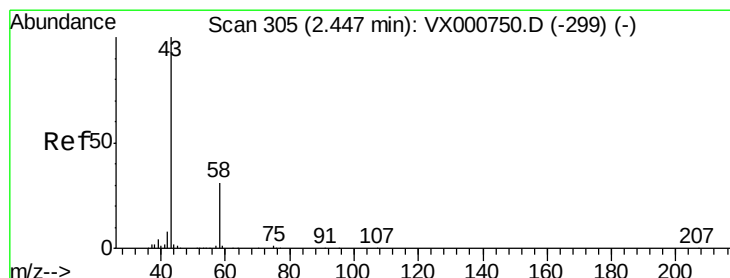
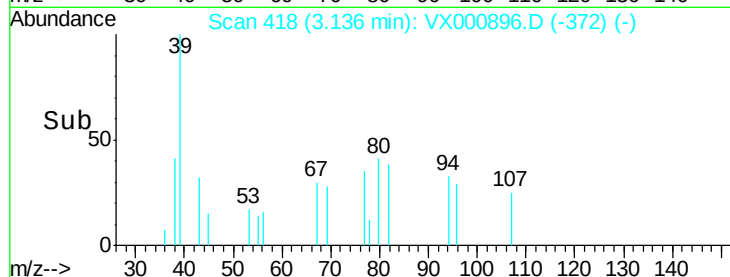
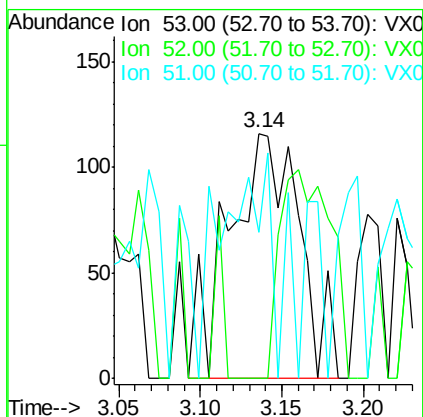
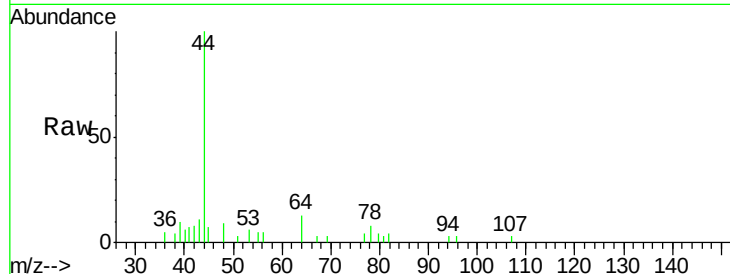




#15  
Acrylonitrile  
Concen: 0.27 ug/l  
RT: 3.14 min Scan# 418  
Delta R.T. -0.02 min  
Lab File: VX000896.D  
Acq: 15 Apr 2018 14:55

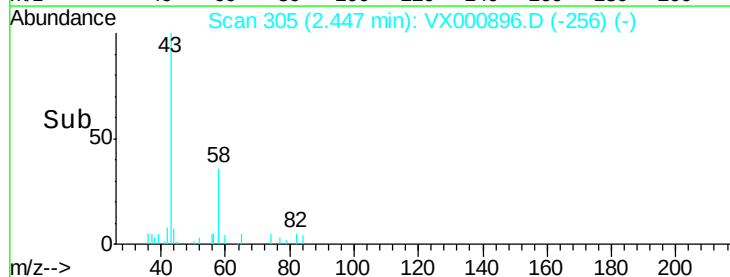
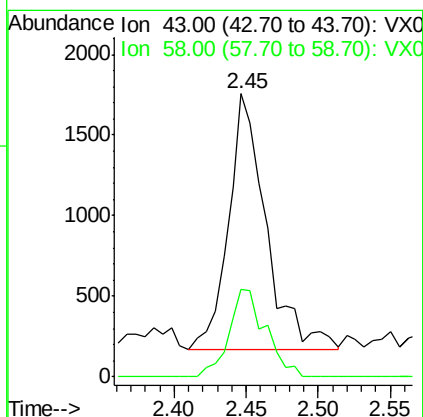
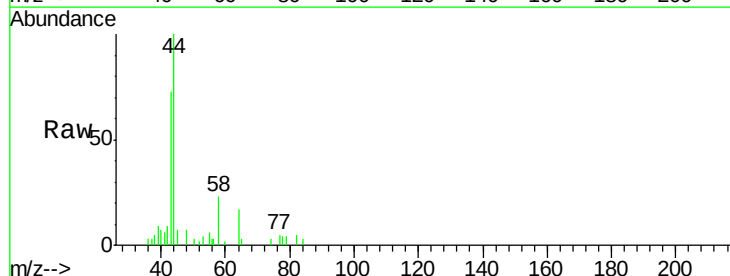
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB108205ZHE#09 5X

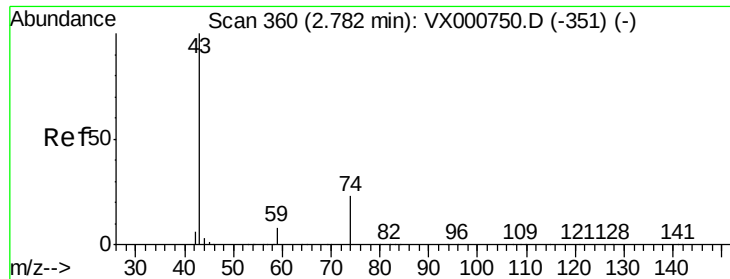
Tgt Ion: 53 Resp: 354  
Ion Ratio Lower Upper  
53 100  
52 0.0 66.5 99.7#  
51 59.6 28.8 43.2#



#16  
Acetone  
Concen: 2.40 ug/l  
RT: 2.45 min Scan# 305  
Delta R.T. 0.00 min  
Lab File: VX000896.D  
Acq: 15 Apr 2018 14:55

Tgt Ion: 43 Resp: 2876  
Ion Ratio Lower Upper  
43 100  
58 34.3 24.6 37.0

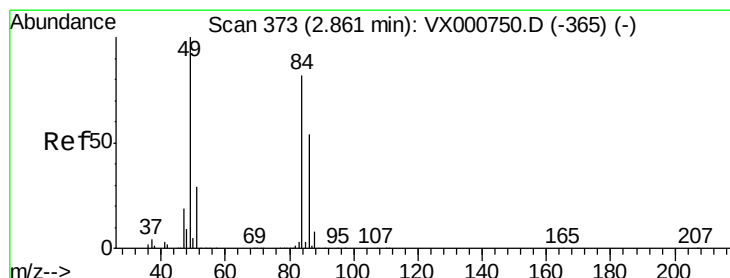
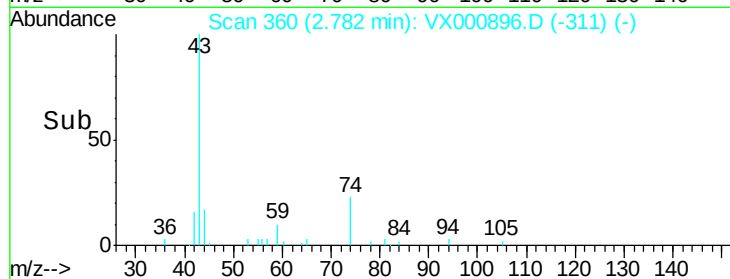
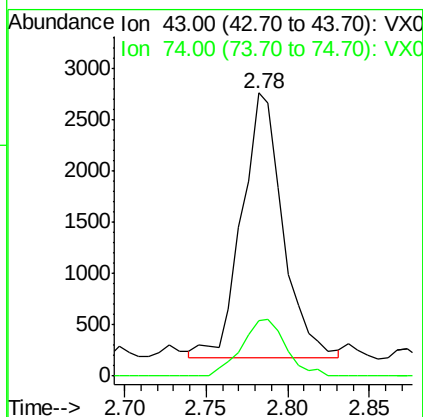
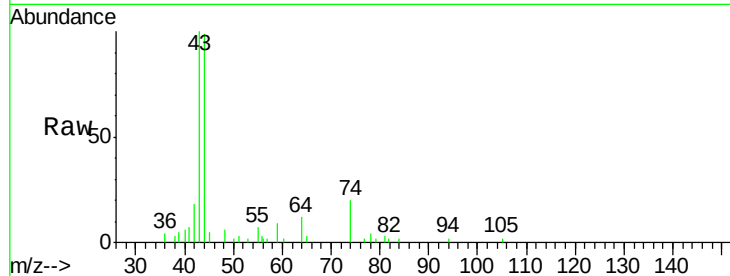




#18  
Methyl Acetate  
Concen: 1.46 ug/l  
RT: 2.78 min Scan# 360  
Delta R.T. 0.00 min  
Lab File: VX000896.D  
Acq: 15 Apr 2018 14:55

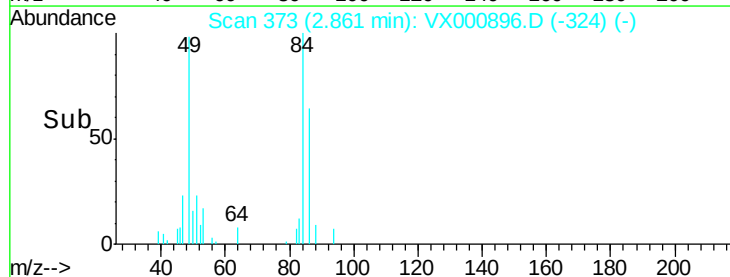
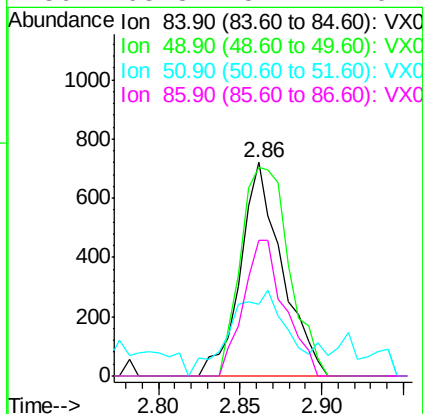
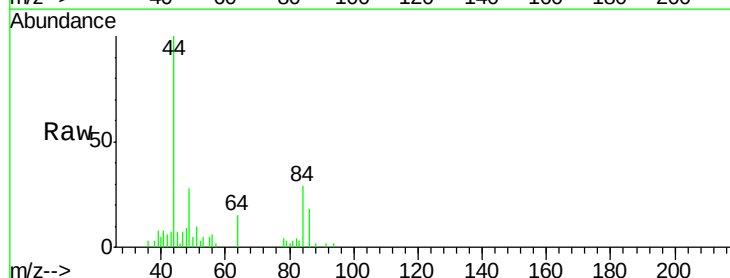
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB108205ZHE#09 5X

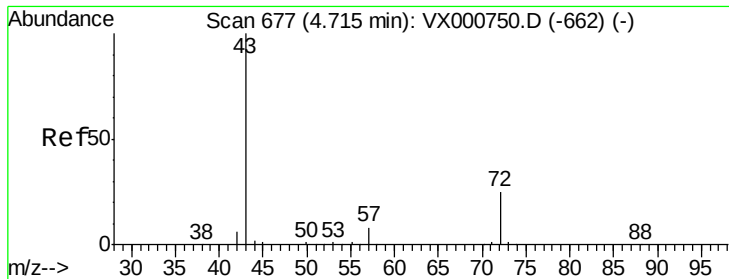
Tgt Ion: 43 Resp: 4517  
Ion Ratio Lower Upper  
43 100  
74 23.1 19.1 28.7



#20  
Methylene Chloride  
Concen: 0.46 ug/l  
RT: 2.86 min Scan# 373  
Delta R.T. 0.00 min  
Lab File: VX000896.D  
Acq: 15 Apr 2018 14:55

Tgt Ion: 84 Resp: 1273  
Ion Ratio Lower Upper  
84 100  
49 97.5 98.1 147.1#  
51 33.7 28.9 43.3  
86 63.8 52.7 79.1





#25

2-Butanone

Concen: 0.32 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX000896.D

Acq: 15 Apr 2018 14:55

Instrument :

MSVOA\_X

ClientSampleId :

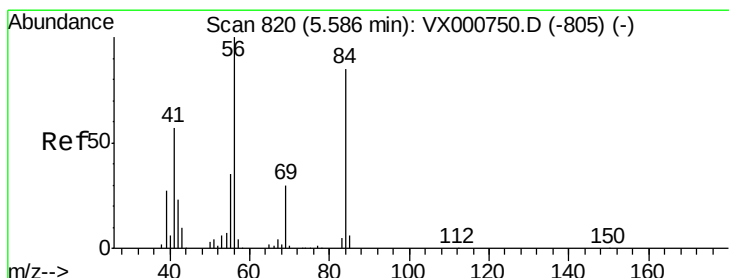
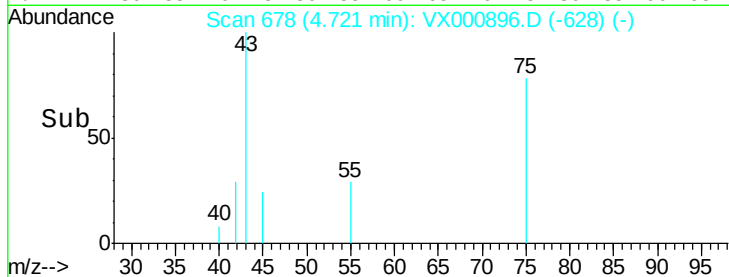
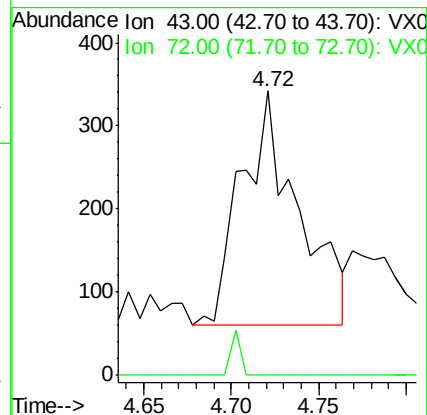
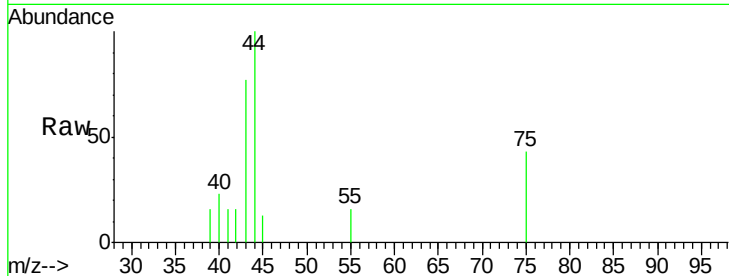
PB108205ZHE#09 5X

Tgt Ion: 43 Resp: 636

Ion Ratio Lower Upper

43 100

72 0.0 20.3 30.5#



#31

Cyclohexane

Concen: 1.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX000896.D

Acq: 15 Apr 2018 14:55

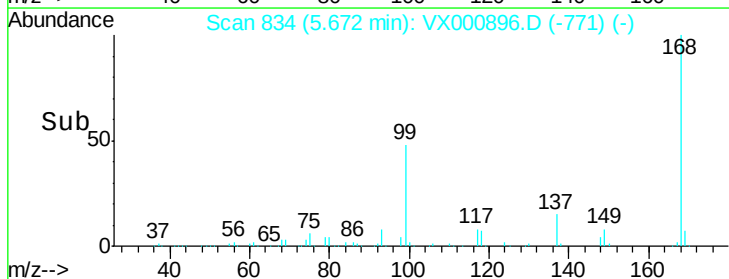
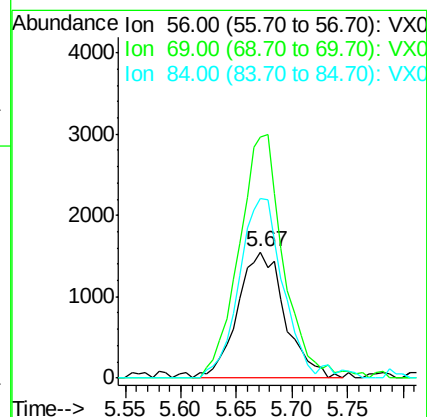
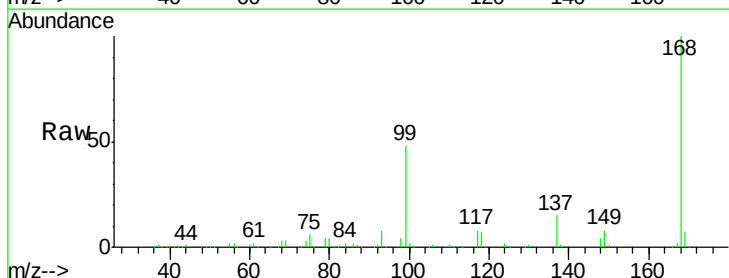
Tgt Ion: 56 Resp: 4575

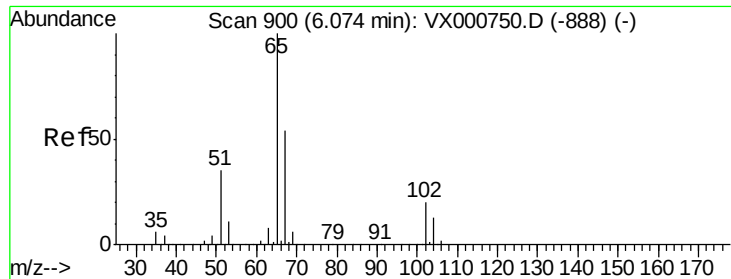
Ion Ratio Lower Upper

56 100

69 191.0 24.2 36.4#

84 142.7 67.6 101.4#

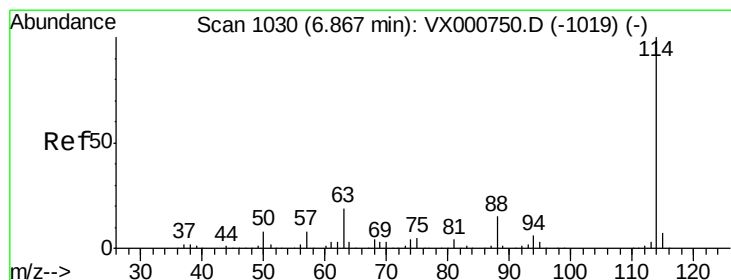
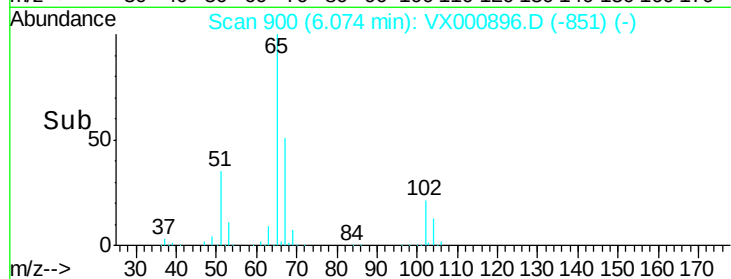
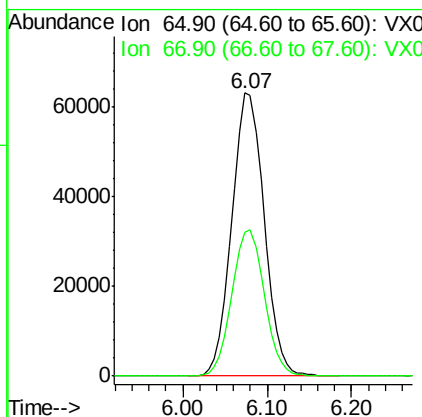
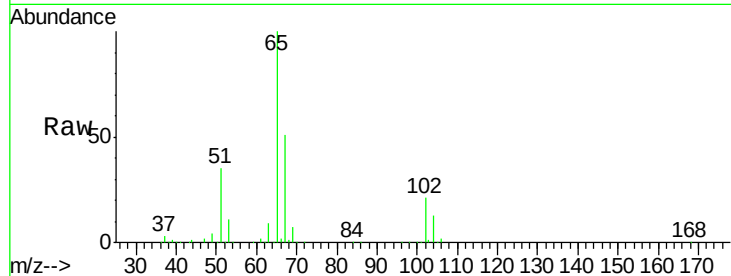




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.28 ug/l  
 RT: 6.07 min Scan# 900  
 Delta R.T. 0.00 min  
 Lab File: VX000896.D  
 Acq: 15 Apr 2018 14:55

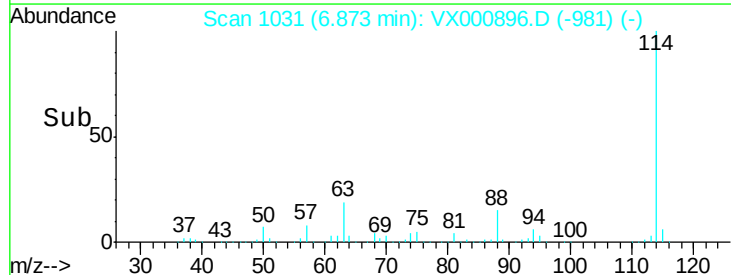
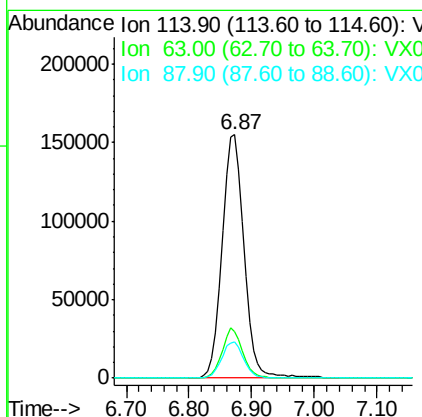
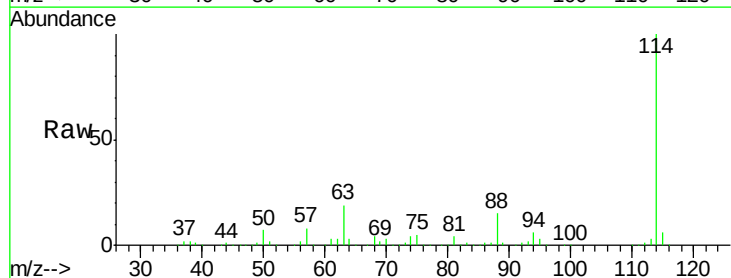
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB108205ZHE#09 5X

Tgt Ion: 65 Resp: 164215  
 Ion Ratio Lower Upper  
 65 100  
 67 52.1 0.0 103.8

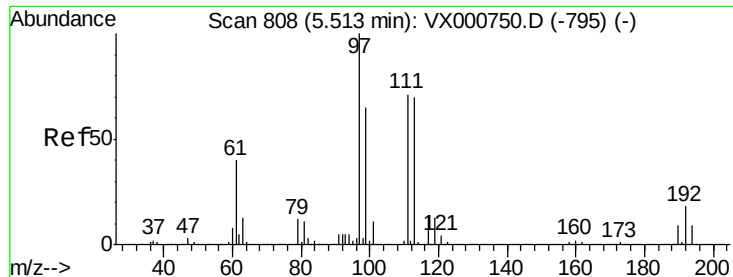


#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1031  
 Delta R.T. 0.01 min  
 Lab File: VX000896.D  
 Acq: 15 Apr 2018 14:55

Tgt Ion: 114 Resp: 377098  
 Ion Ratio Lower Upper  
 114 100  
 63 18.8 0.0 38.4  
 88 14.9 0.0 31.0



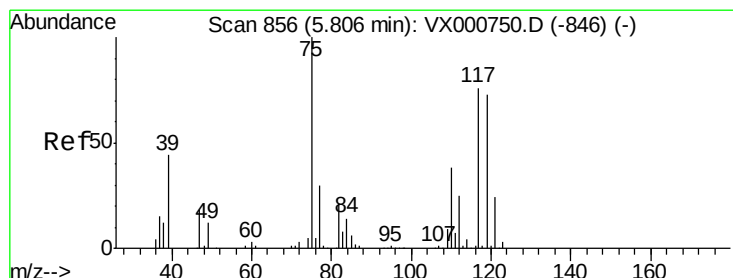
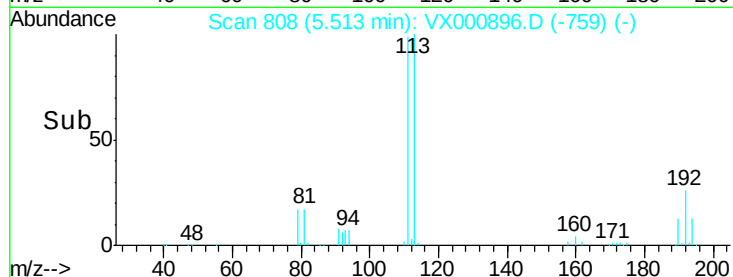
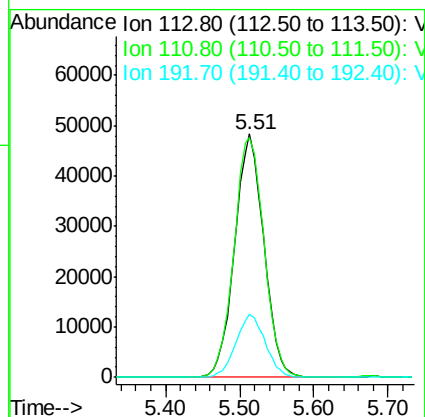
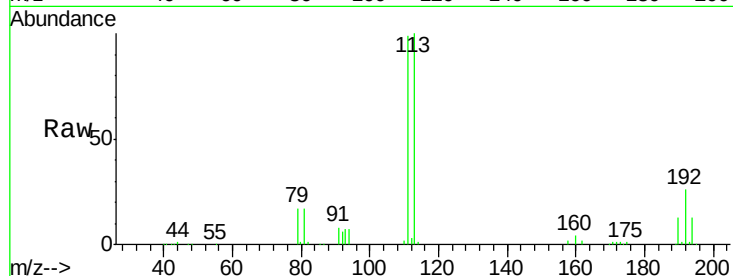




#35  
 Dibromofluoromethane  
 Concen: 45.76 ug/l  
 RT: 5.51 min Scan# 808  
 Delta R.T. 0.00 min  
 Lab File: VX000896.D  
 Acq: 15 Apr 2018 14:55

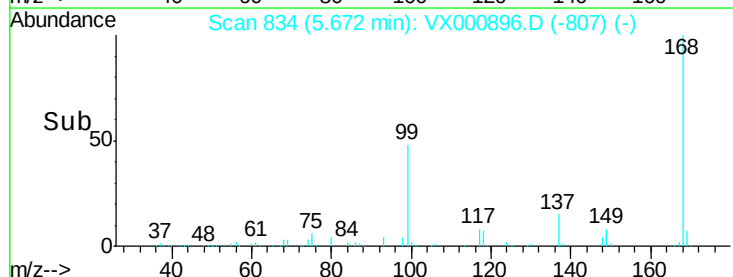
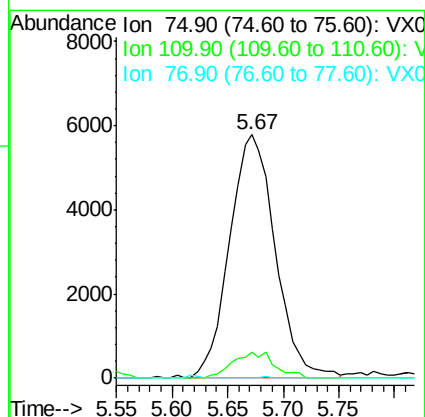
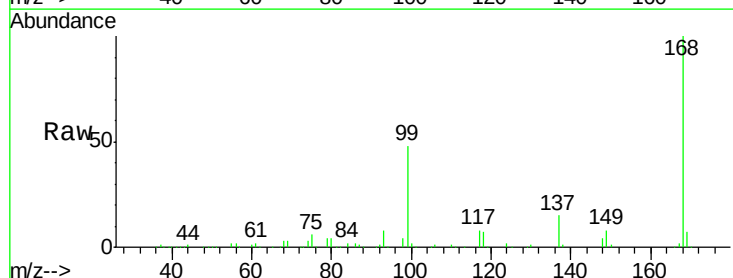
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB108205ZHE#09 5X

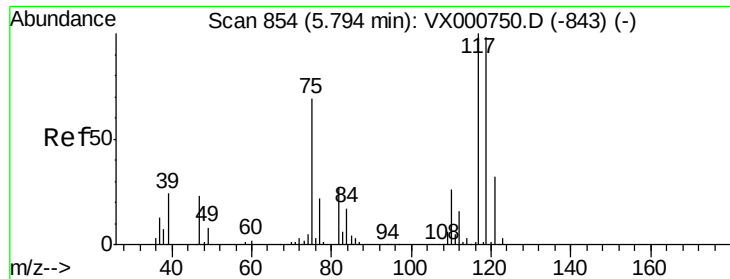
Tgt Ion:113 Resp: 132955  
 Ion Ratio Lower Upper  
 113 100  
 111 101.6 81.5 122.3  
 192 26.2 20.4 30.6



#36  
 1,1-Dichloropropene  
 Concen: 3.97 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.13 min  
 Lab File: VX000896.D  
 Acq: 15 Apr 2018 14:55

Tgt Ion: 75 Resp: 16487  
 Ion Ratio Lower Upper  
 75 100  
 110 9.8 19.2 57.6#  
 77 0.1 25.4 38.2#





#38

Carbon Tetrachloride

Concen: 5.07 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX000896.D

Acq: 15 Apr 2018 14:55

Instrument :

MSVOA\_X

ClientSampleId :

PB108205ZHE#09 5X

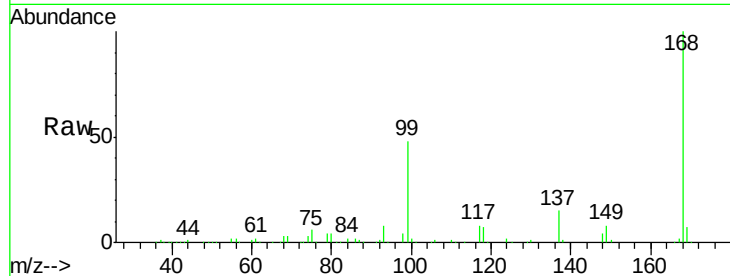
Tgt Ion: 117 Resp: 23573

Ion Ratio Lower Upper

117 100

119 4.9 78.4 117.6#

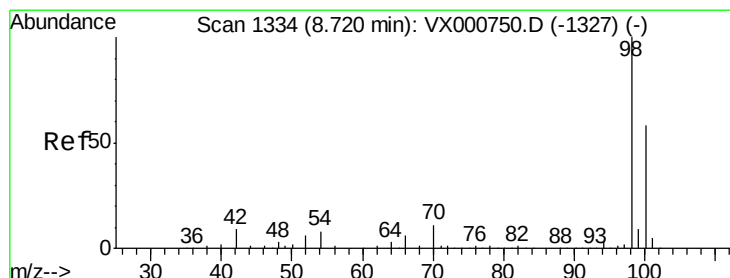
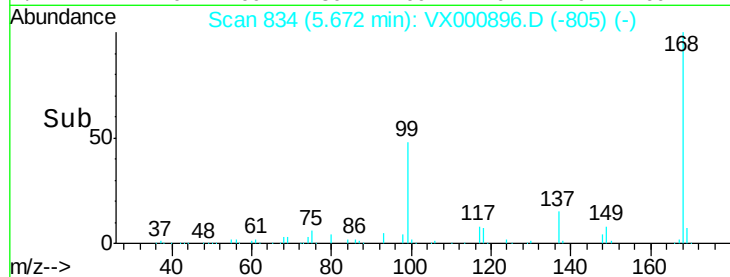
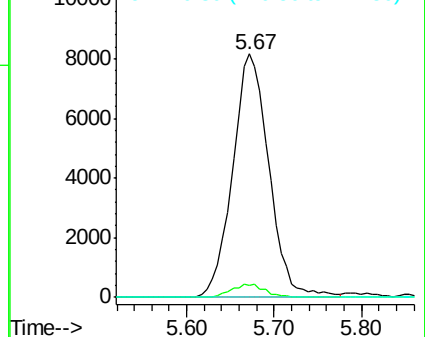
121 0.0 25.4 38.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 48.28 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX000896.D

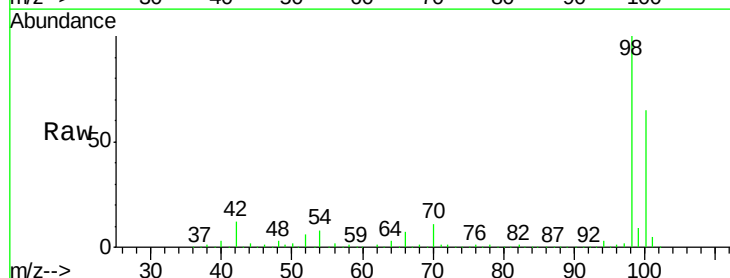
Acq: 15 Apr 2018 14:55

Tgt Ion: 98 Resp: 522315

Ion Ratio Lower Upper

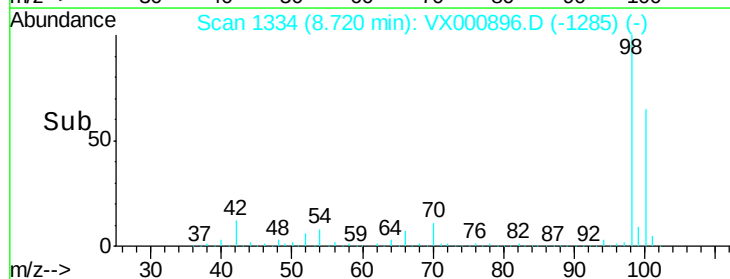
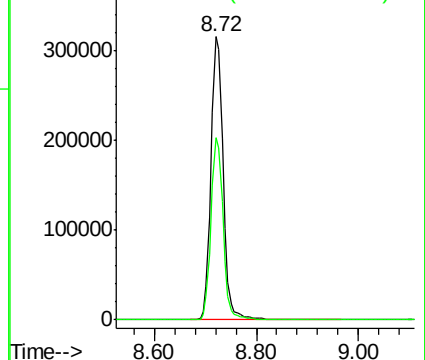
98 100

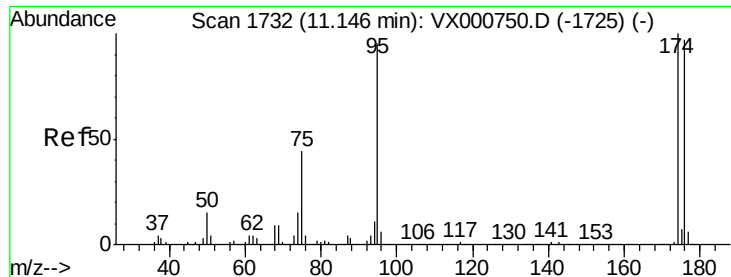
100 64.5 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.87 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.01 min

Lab File: VX000896.D

Acq: 15 Apr 2018 14:55

Instrument :

MSVOA\_X

ClientSampleId :

PB108205ZHE#09 5X

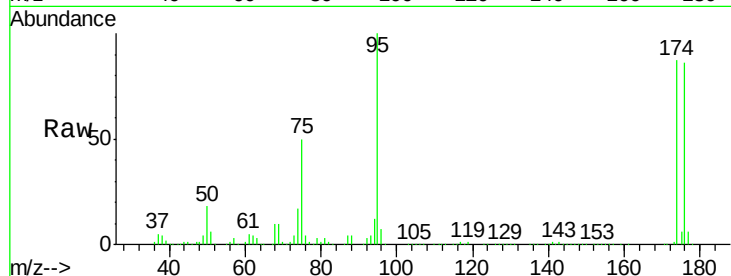
Tgt Ion: 95 Resp: 200829

Ion Ratio Lower Upper

95 100

174 97.6 0.0 198.4

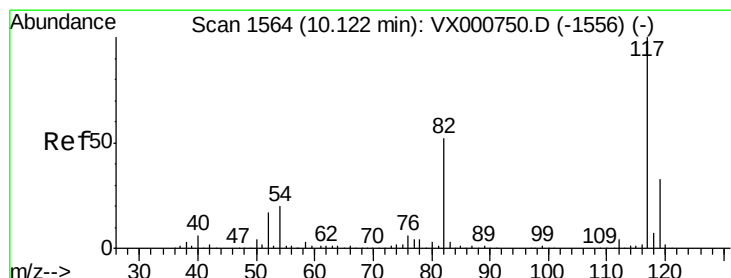
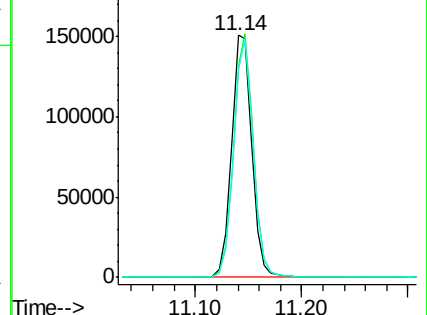
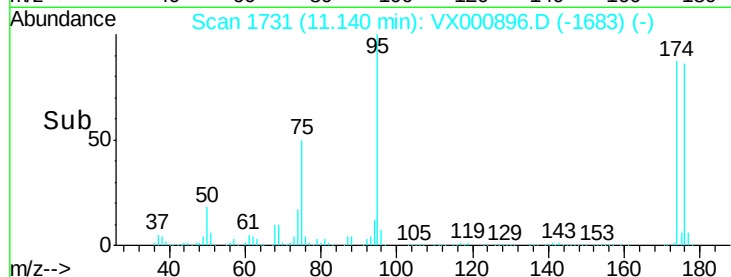
176 95.2 0.0 194.4



Abundance Ion 94.90 (94.60 to 95.60): VX000896.D (-1683) (-)

Ion 173.80 (173.50 to 174.50): VX000896.D (-1683) (-)

Ion 175.80 (175.50 to 176.50): VX000896.D (-1683) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VX000896.D

Acq: 15 Apr 2018 14:55

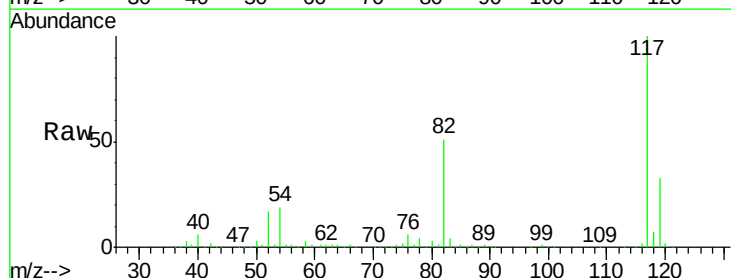
Tgt Ion: 117 Resp: 343157

Ion Ratio Lower Upper

117 100

82 50.7 41.9 62.9

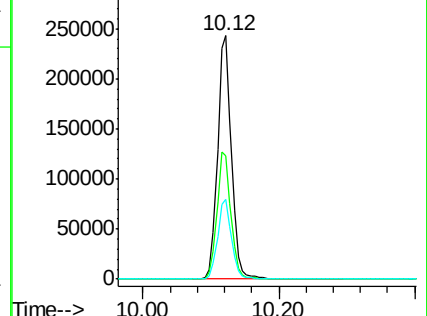
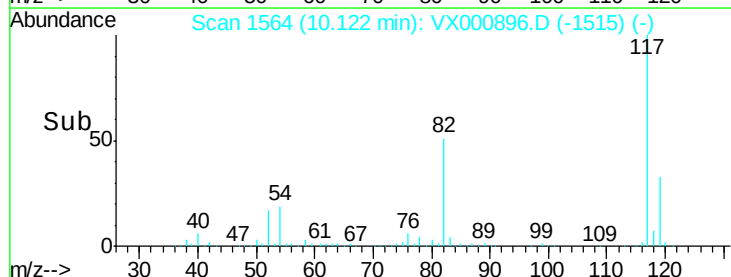
119 32.7 26.0 39.0

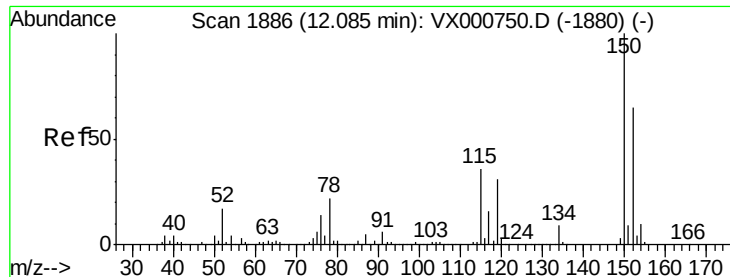


Abundance Ion 116.90 (116.60 to 117.60): VX000896.D (-1515) (-)

Ion 82.00 (81.70 to 82.70): VX000896.D (-1515) (-)

Ion 118.90 (118.60 to 119.60): VX000896.D (-1515) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX000896.D

Acq: 15 Apr 2018 14:55

Instrument :

MSVOA\_X

ClientSampleId :

PB108205ZHE#09 5X

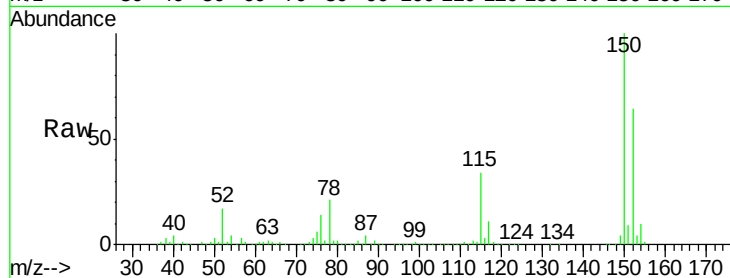
Tgt Ion:152 Resp: 223848

Ion Ratio Lower Upper

152 100

115 53.9 37.9 113.7

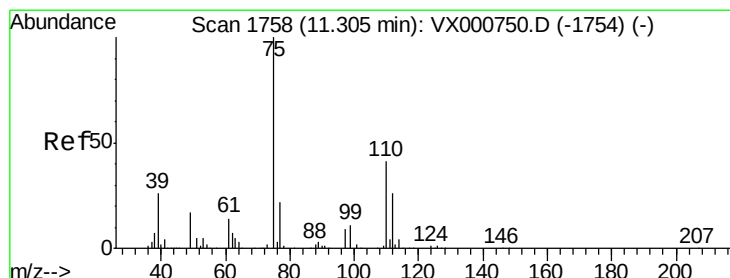
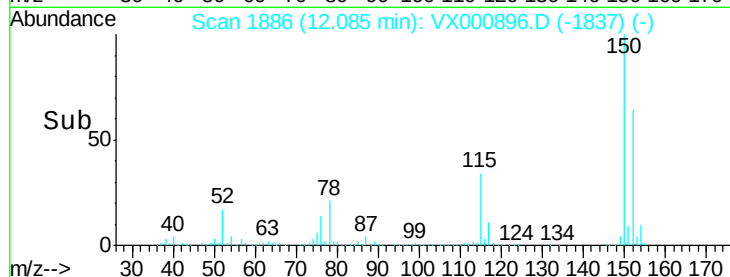
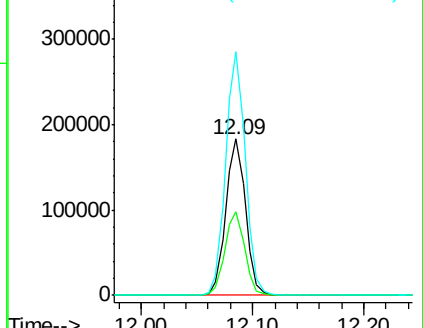
150 155.7 0.0 348.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.58 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX000896.D

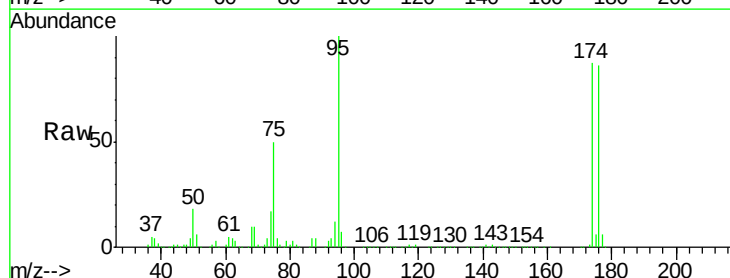
Acq: 15 Apr 2018 14:55

Tgt Ion: 75 Resp: 98759

Ion Ratio Lower Upper

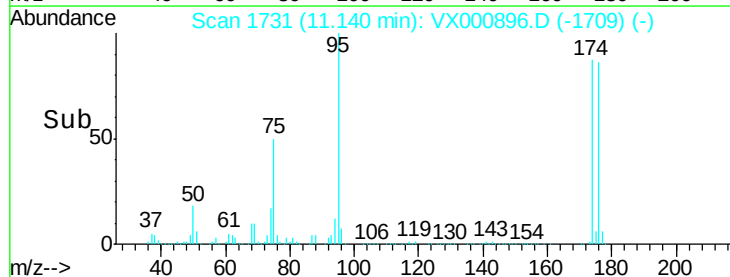
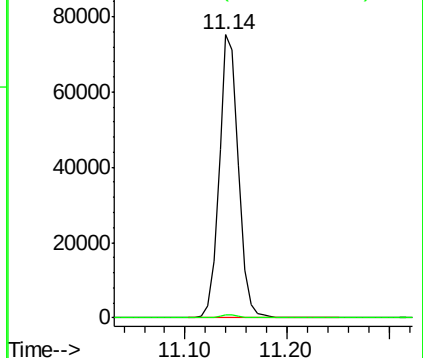
75 100

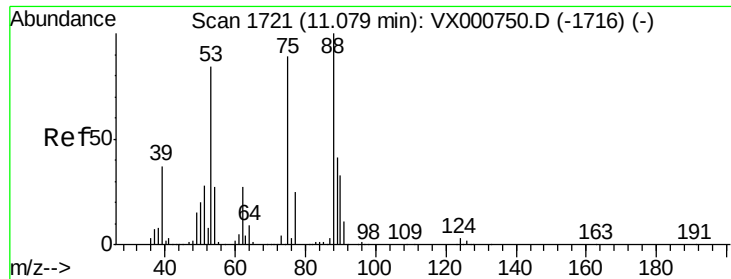
77 1.2 20.5 61.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 70.37 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX000896.D

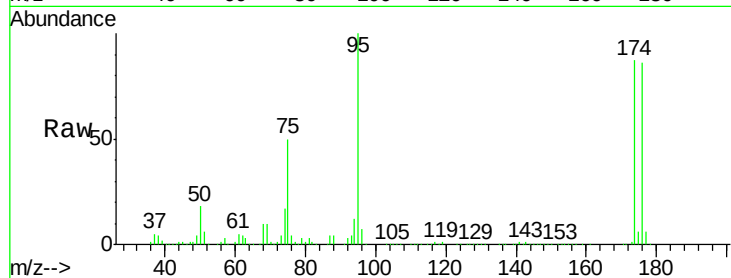
Acq: 15 Apr 2018 14:55

Instrument :

MSVOA\_X

ClientSampleId :

PB108205ZHE#09 5X



Tgt Ion: 75 Resp: 98759

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

89 0.0 40.9 61.3#

