

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW090618\  
 Data File : VW005172.D  
 Acq On : 06 Sep 2018 18:50  
 Operator : SY/AP  
 Sample : J4687-04RE  
 Misc : 2.70G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ENY-SB-07-1.5-2RE

Quant Time: Sep 07 01:05:28 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W090118S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 01 03:35:05 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.96  | 168  | 299647   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 411020   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 253668   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 37038    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 215772   | 86.87 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 173.74% |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 200741   | 84.51 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 169.02% |      |
| 50) Toluene-d8            | 10.33  | 98  | 508891   | 46.50 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.00%  |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 57506    | 14.90 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 29.80%  |      |

## Target Compounds

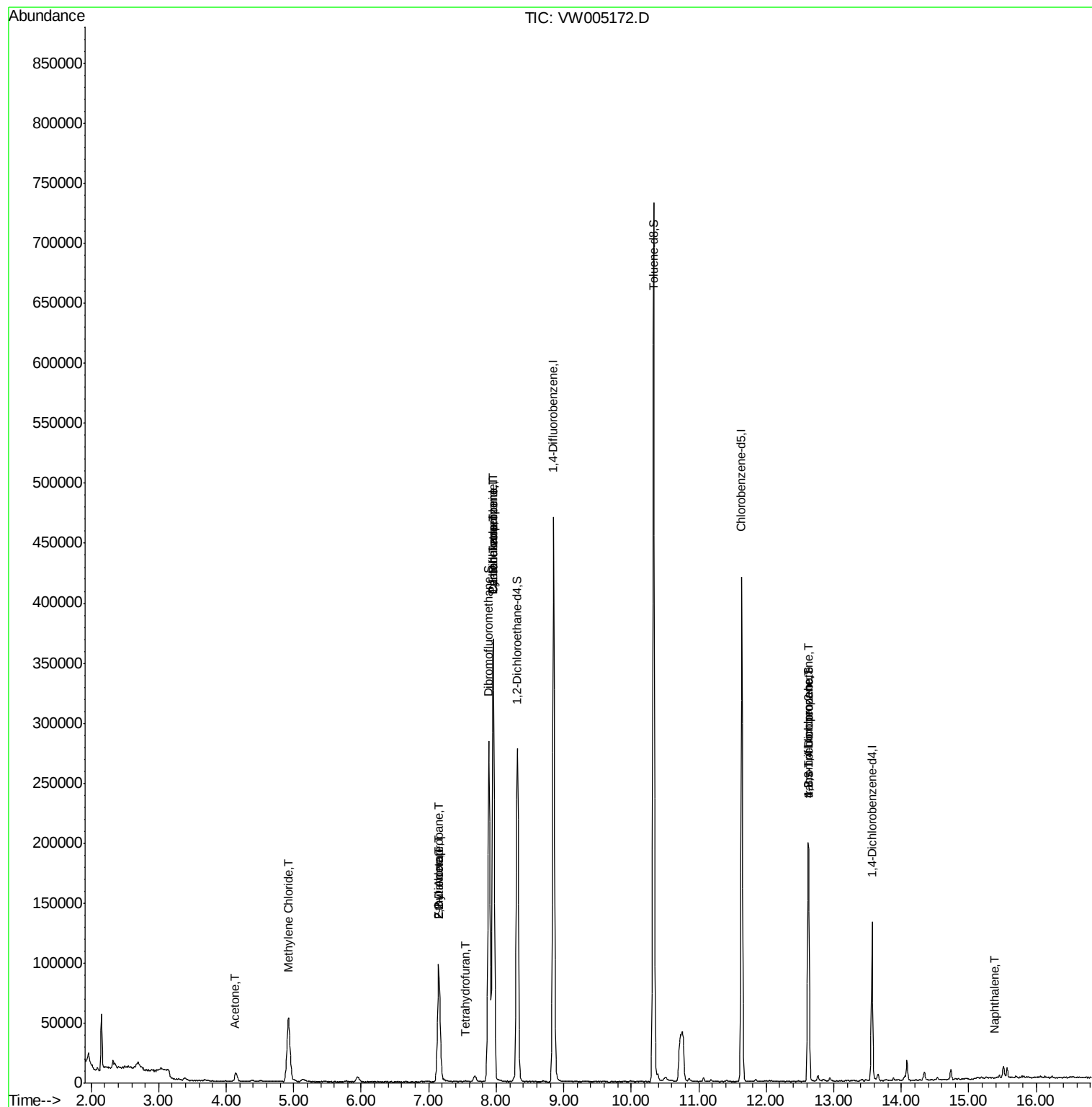
|                                |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 5) Bromomethane                | 2.76  | 94  | 738   | Below Cal | #      | 38     |
| 11) Tert butyl alcohol         | 5.13  | 59  | 2341  | Below Cal | #      | 72     |
| 16) Acetone                    | 4.14  | 43  | 12723 | 25.541    | ug/l   | 92     |
| 20) Methylene Chloride         | 4.92  | 84  | 45026 | 10.288    | ug/l   | 100    |
| 25) 2-Butanone                 | 7.14  | 43  | 5241  | 6.066     | ug/l # | 73     |
| 26) 2,2-Dichloropropane        | 7.15  | 77  | 7015  | 1.714     | ug/l # | 51     |
| 29) Tetrahydrofuran            | 7.55  | 42  | 619   | 1.402     | ug/l # | 57     |
| 31) Cyclohexane                | 7.95  | 56  | 5303  | 1.087     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.96  | 75  | 20948 | 5.351     | ug/l # | 47     |
| 37) Ethyl Acetate              | 7.14  | 43  | 5241  | 3.580     | ug/l # | 1      |
| 38) Carbon Tetrachloride       | 7.96  | 117 | 26695 | 7.172     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75  | 26563 | 95.545    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75  | 26563 | 229.966   | ug/l # | 15     |
| 95) Naphthalene                | 15.38 | 128 | 598   | 4.392     | ug/l # | 74     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW090618\  
Data File : VW005172.D  
Acq On : 06 Sep 2018 18:50  
Operator : SY/AP  
Sample : J4687-04RE  
Misc : 2.70G/5ML/MSVOA\_W/SOIL  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
ENY-SB-07-1.5-2RE

Quant Time: Sep 07 01:05:28 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W090118S.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 01 03:35:05 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW005172.D

Acq: 06 Sep 2018 18:50

Instrument :

MSVOA\_W

ClientSampleId :

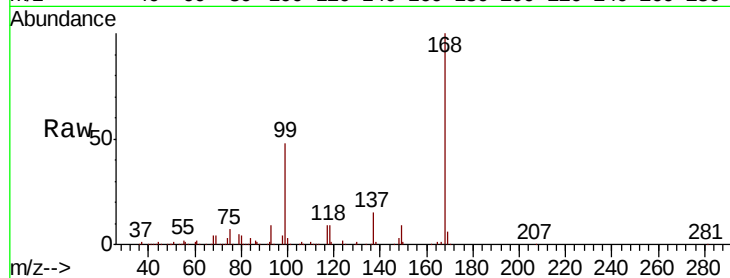
ENY-SB-07-1.5-2RE

Tgt Ion:168 Resp: 299647

Ion Ratio Lower Upper

168 100

99 48.1 39.4 59.0



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.96

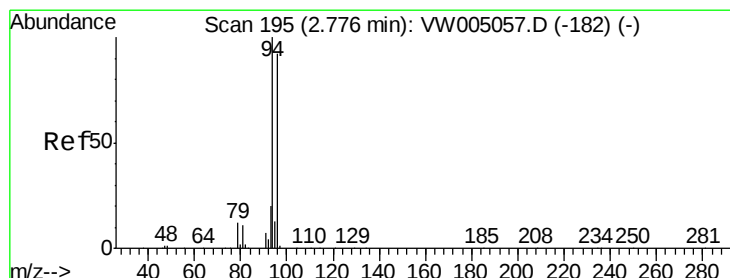
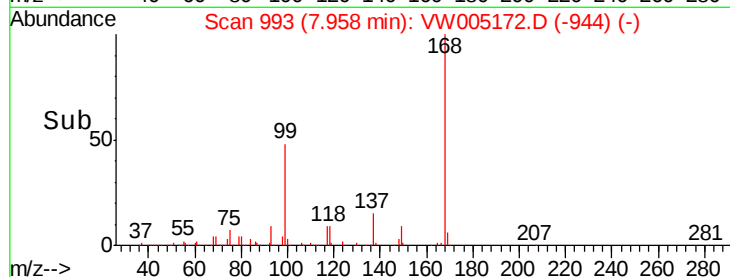
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#5

Bromomethane

Concen: Below Cal

RT: 2.76 min Scan# 141

Delta R.T. -0.01 min

Lab File: VW005172.D

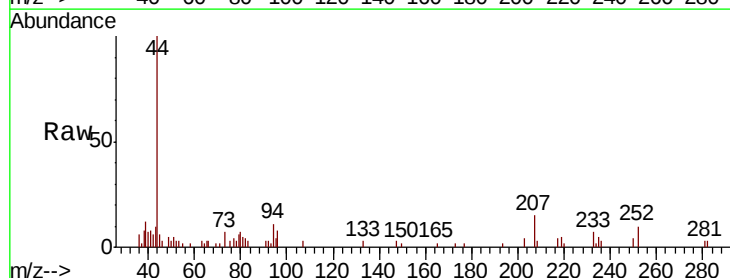
Acq: 06 Sep 2018 18:50

Tgt Ion: 94 Resp: 738

Ion Ratio Lower Upper

94 100

96 32.1 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

2.76

400

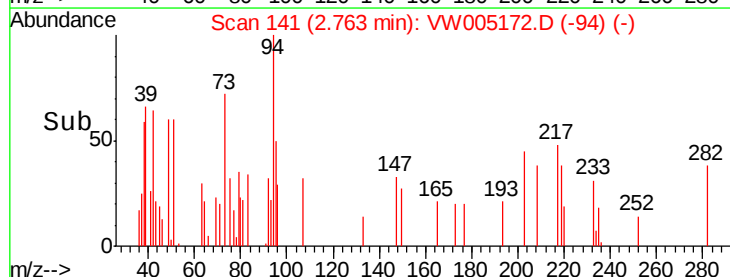
300

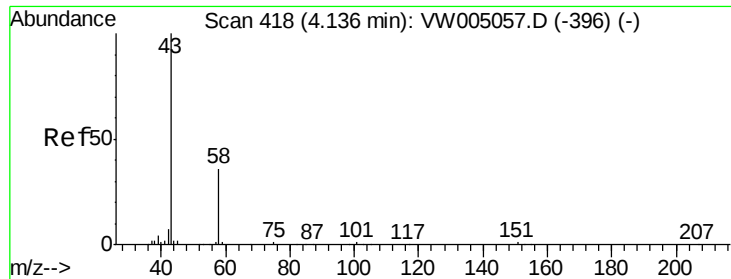
200

100

0

Time--> 2.75 2.80

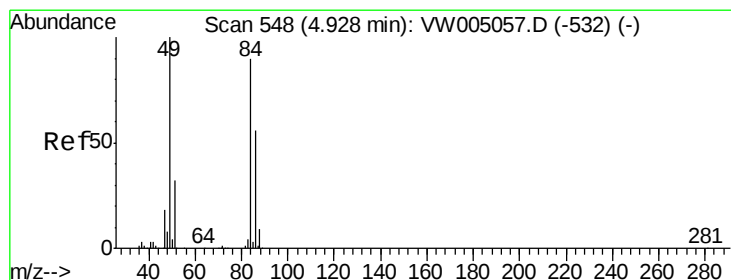
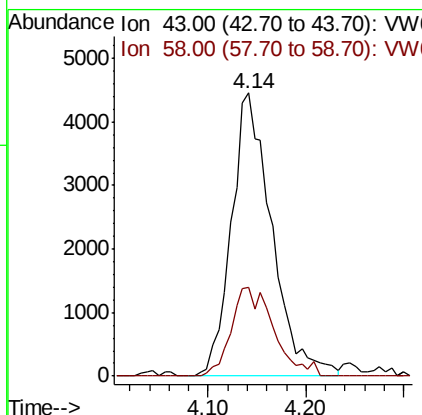
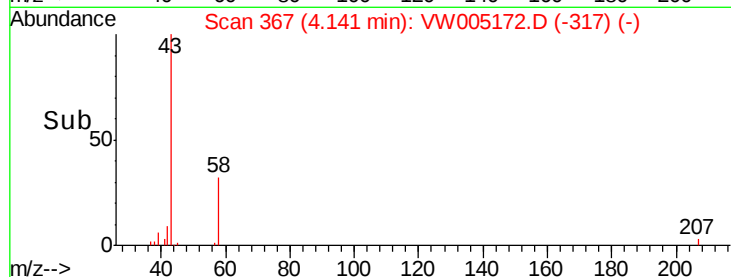
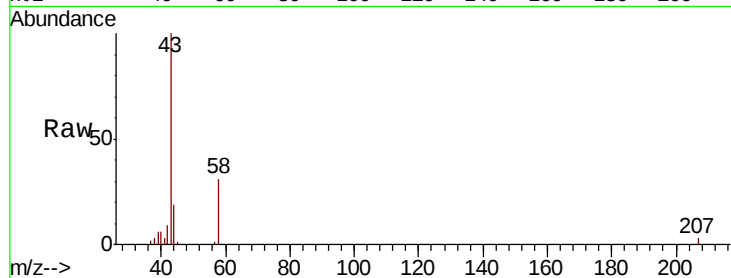




#16  
Acetone  
Concen: 25.541 ug/l  
RT: 4.14 min Scan# 367  
Delta R.T. 0.01 min  
Lab File: VW005172.D  
Acq: 06 Sep 2018 18:50

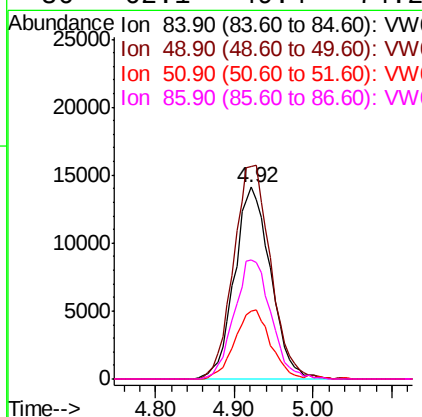
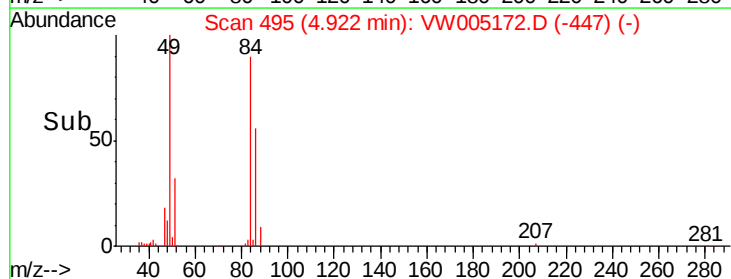
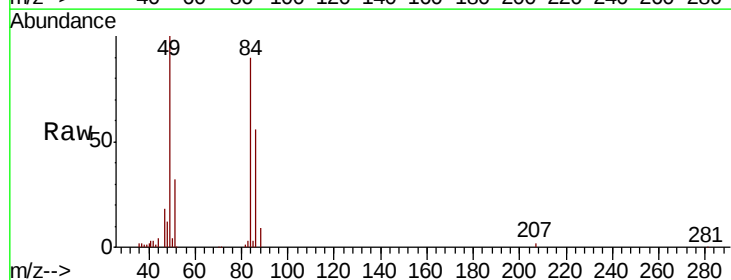
Instrument :  
MSVOA\_W  
ClientSampleId :  
ENY-SB-07-1.5-2RE

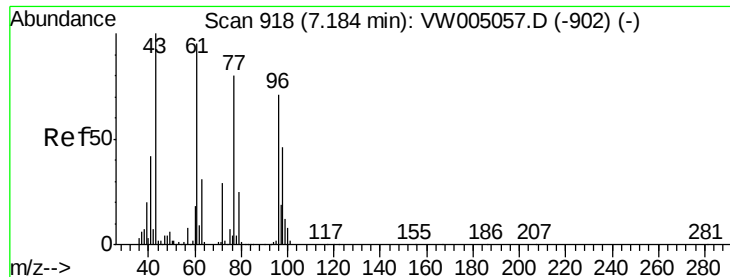
Tgt Ion: 43 Resp: 12723  
Ion Ratio Lower Upper  
43 100  
58 31.4 29.0 43.6



#20  
Methylene Chloride  
Concen: 10.288 ug/l  
RT: 4.92 min Scan# 495  
Delta R.T. -0.01 min  
Lab File: VW005172.D  
Acq: 06 Sep 2018 18:50

Tgt Ion: 84 Resp: 45026  
Ion Ratio Lower Upper  
84 100  
49 111.0 88.7 133.1  
51 35.3 28.6 42.8  
86 62.1 49.4 74.2





#25

2-Butanone

Concen: 6.066 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.04 min

Lab File: VW005172.D

Acq: 06 Sep 2018 18:50

Instrument :

MSVOA\_W

ClientSampleId :

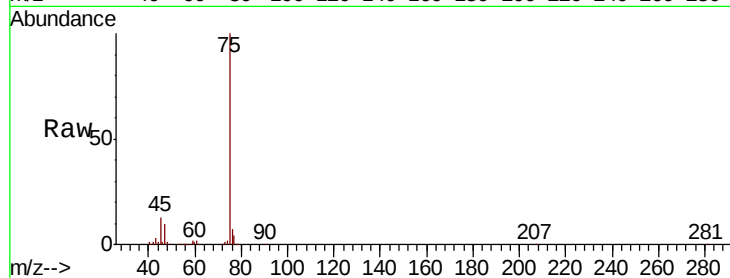
ENY-SB-07-1.5-2RE

Tgt Ion: 43 Resp: 5241

Ion Ratio Lower Upper

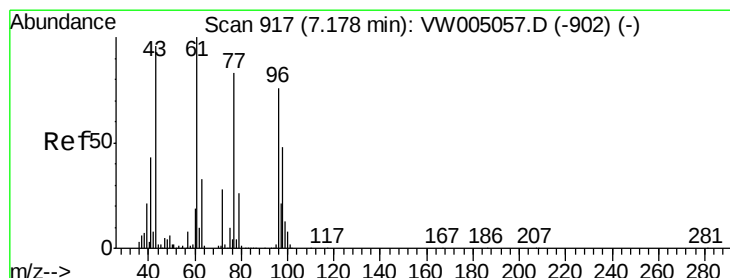
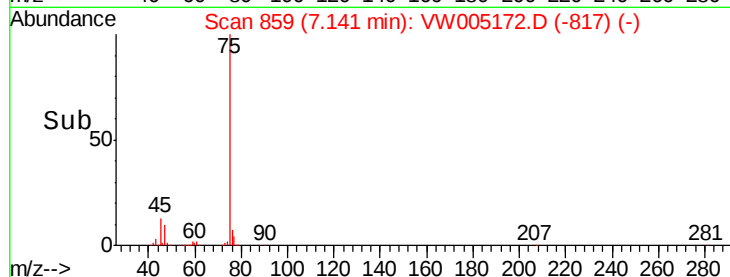
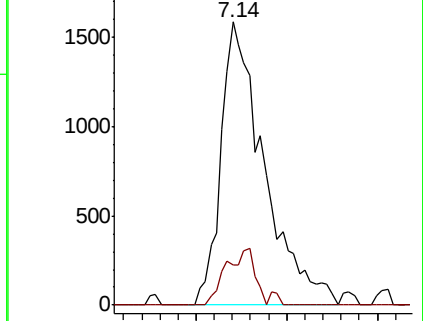
43 100

72 14.3 23.1 34.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 1.714 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.02 min

Lab File: VW005172.D

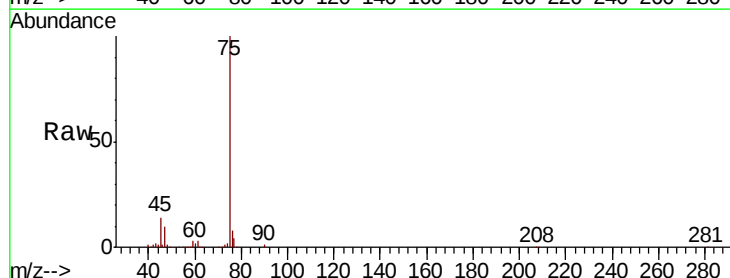
Acq: 06 Sep 2018 18:50

Tgt Ion: 77 Resp: 7015

Ion Ratio Lower Upper

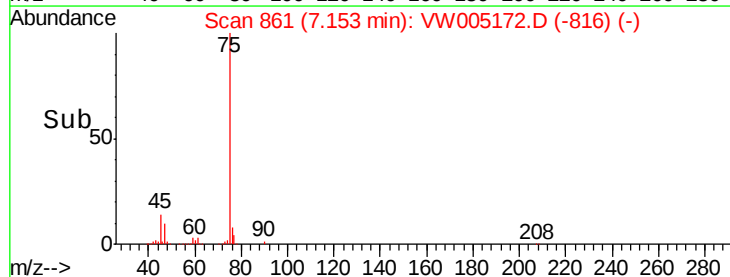
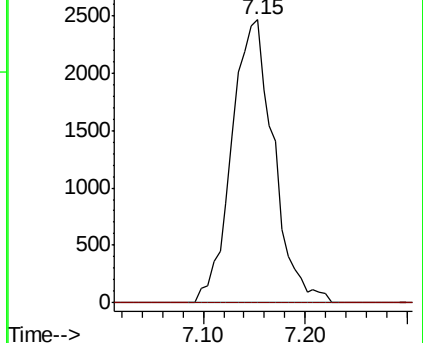
77 100

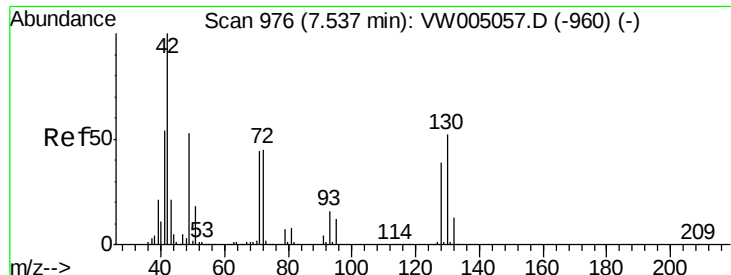
97 0.0 12.2 36.6#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

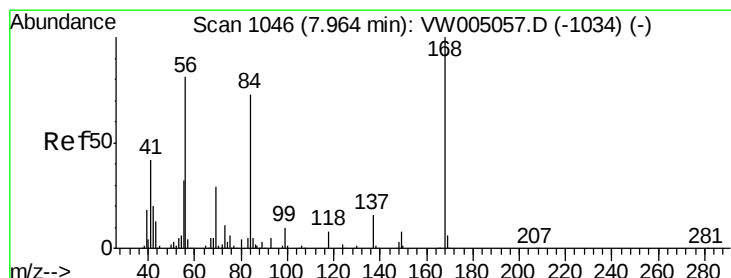
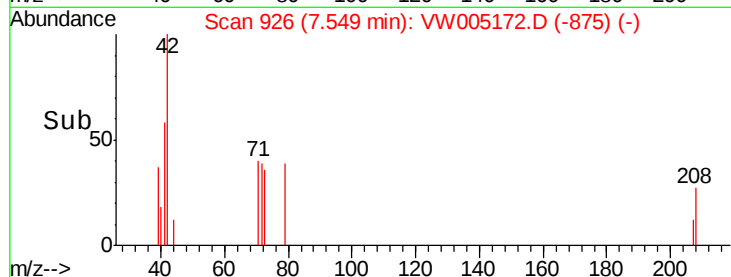
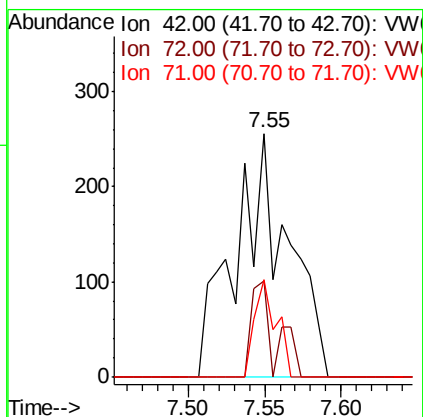
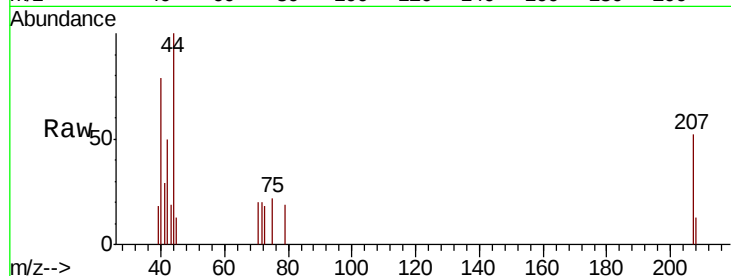




#29  
Tetrahydrofuran  
Concen: 1.402 ug/l  
RT: 7.55 min Scan# 926  
Delta R.T. 0.01 min  
Lab File: VW005172.D  
Acq: 06 Sep 2018 18:50

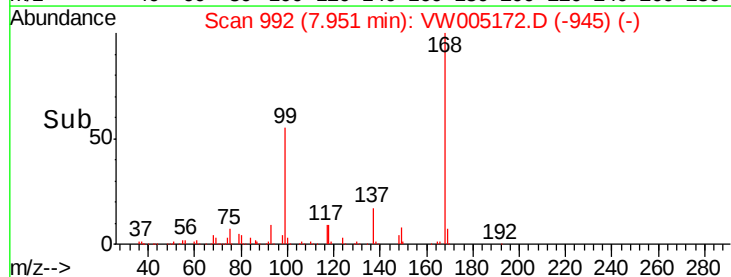
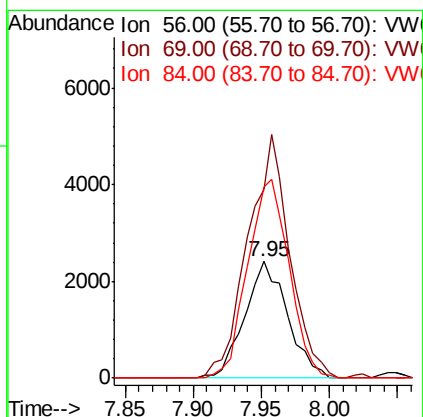
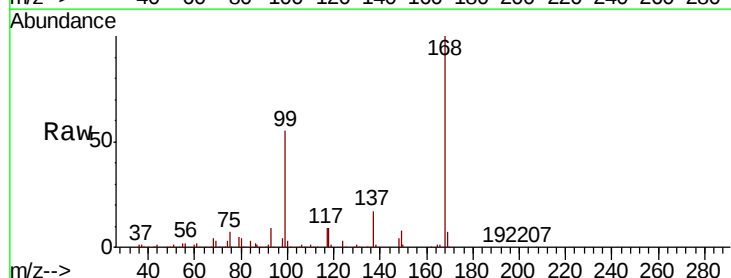
Instrument :  
MSVOA\_W  
ClientSampleId :  
ENY-SB-07-1.5-2RE

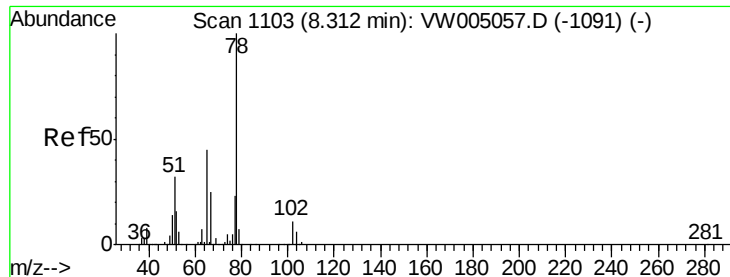
Tgt Ion: 42 Resp: 619  
Ion Ratio Lower Upper  
42 100  
72 17.8 37.0 55.4#  
71 16.3 35.0 52.6#



#31  
Cyclohexane  
Concen: 1.087 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VW005172.D  
Acq: 06 Sep 2018 18:50

Tgt Ion: 56 Resp: 5303  
Ion Ratio Lower Upper  
56 100  
69 162.2 28.2 42.2#  
84 163.7 71.8 107.8#





#33

1,2-Dichloroethane-d4

Concen: 86.867 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW005172.D

Acq: 06 Sep 2018 18:50

Instrument :

MSVOA\_W

ClientSampleId :

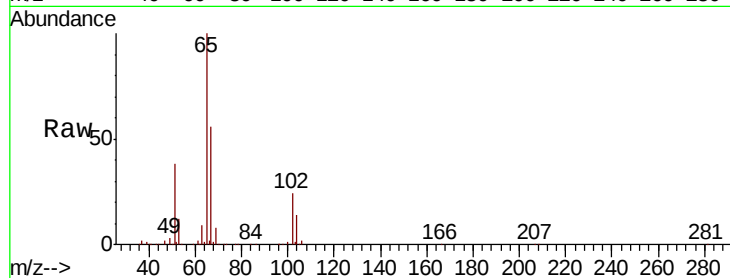
ENY-SB-07-1.5-2RE

Tgt Ion: 65 Resp: 215772

Ion Ratio Lower Upper

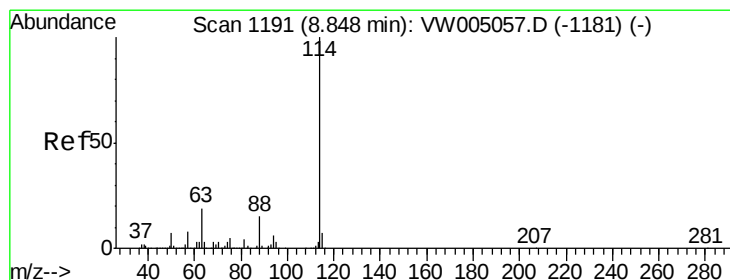
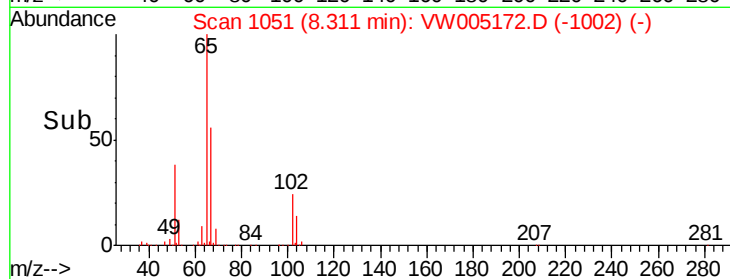
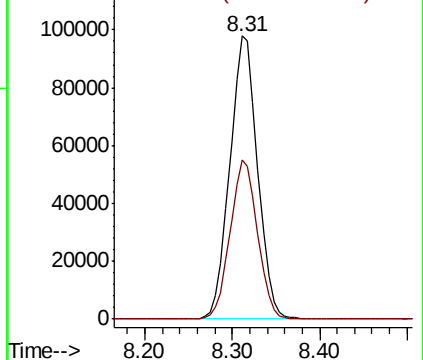
65 100

67 55.5 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VW005172.D

Acq: 06 Sep 2018 18:50

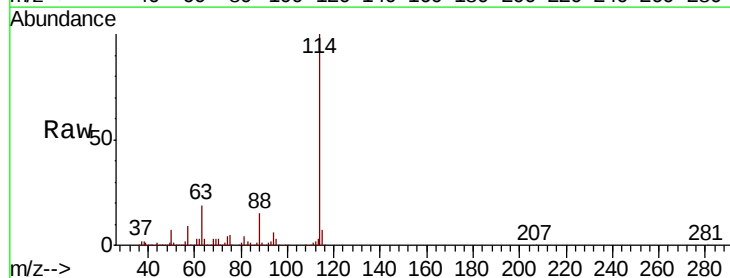
Tgt Ion: 114 Resp: 411020

Ion Ratio Lower Upper

114 100

63 19.5 0.0 38.0

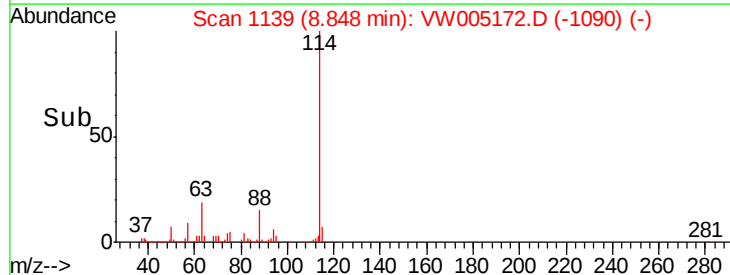
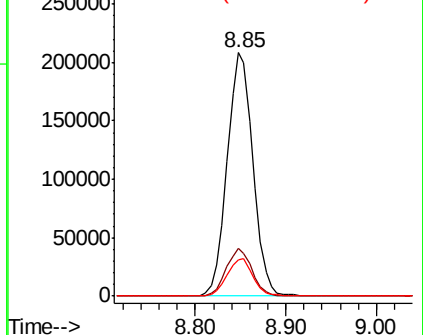
88 15.0 0.0 30.2

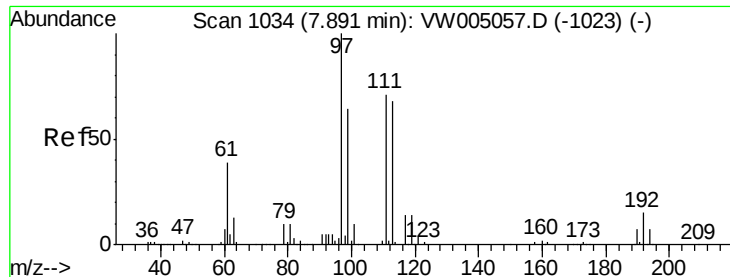


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

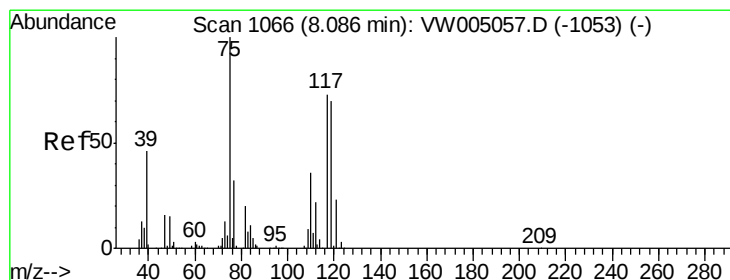
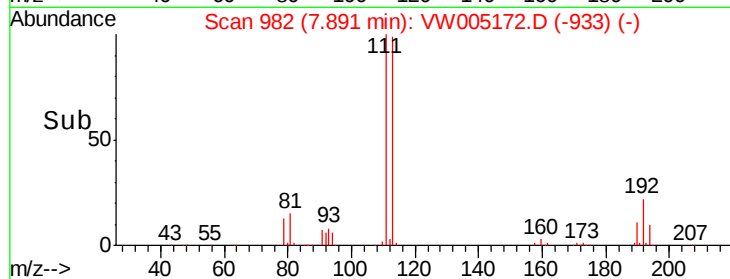
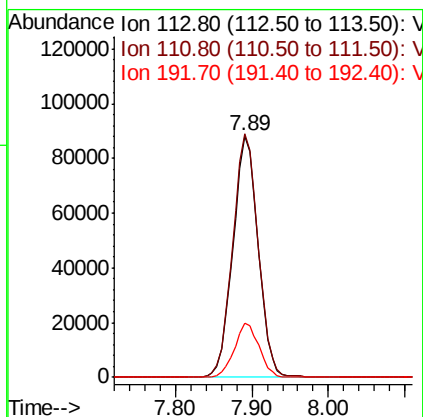
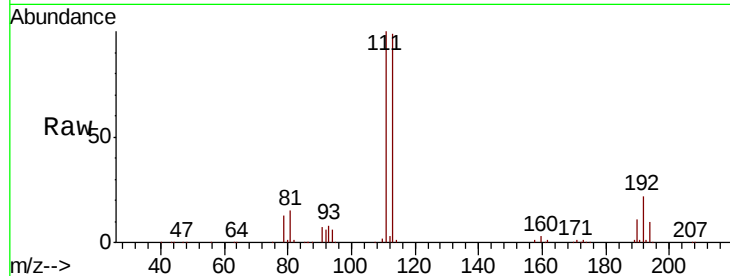




#35  
 Dibromofluoromethane  
 Concen: 84.515 ug/l  
 RT: 7.89 min Scan# 982  
 Delta R.T. -0.00 min  
 Lab File: VW005172.D  
 Acq: 06 Sep 2018 18:50

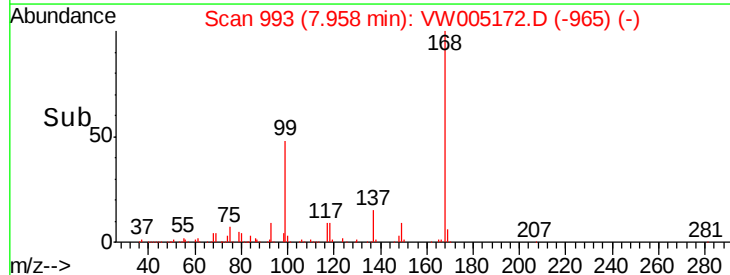
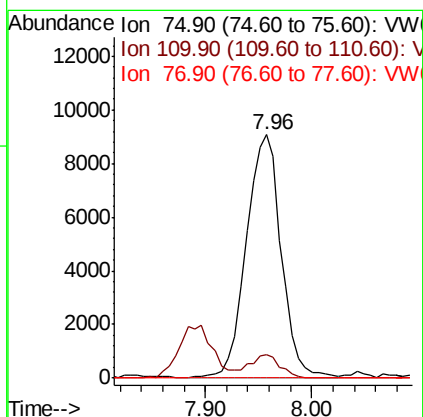
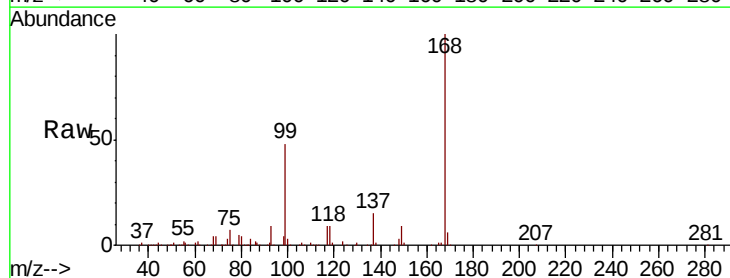
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ENY-SB-07-1.5-2RE

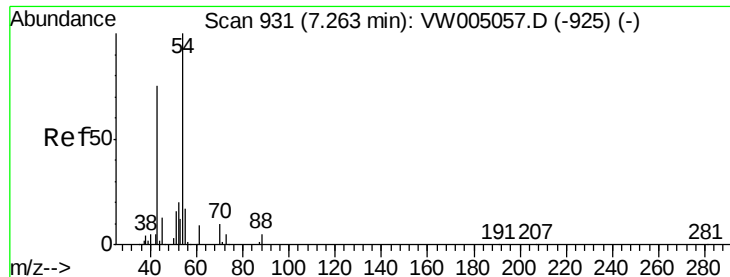
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.2 | 82.2  | 123.2 |
| 192     | 22.0  | 18.1  | 27.1  |



#36  
 1,1-Dichloropropene  
 Concen: 5.351 ug/l  
 RT: 7.96 min Scan# 993  
 Delta R.T. -0.13 min  
 Lab File: VW005172.D  
 Acq: 06 Sep 2018 18:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.5   | 18.9  | 56.7# |
| 77      | 0.0   | 25.5  | 38.3# |

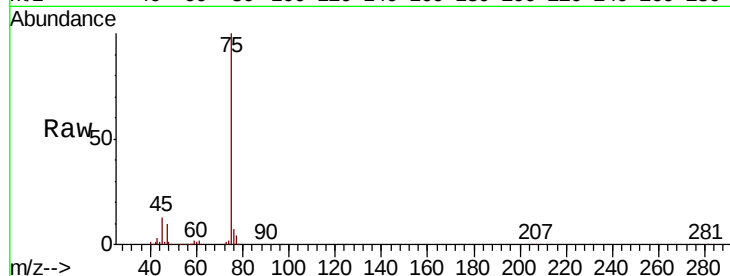




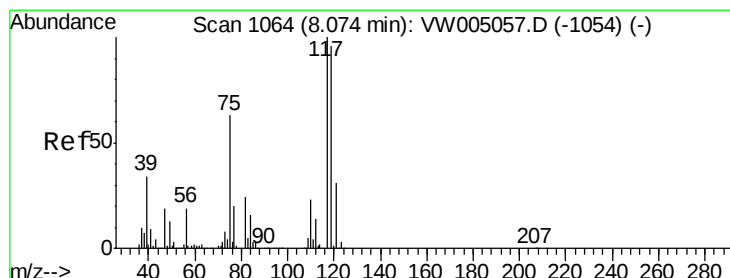
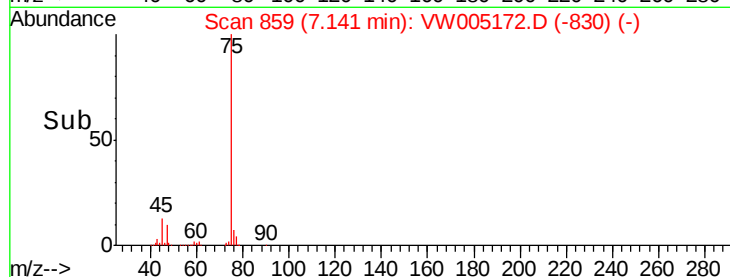
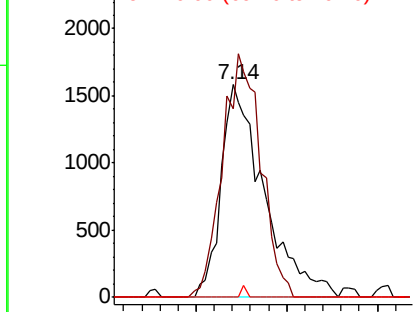
#37  
Ethyl Acetate  
Concen: 3.580 ug/l  
RT: 7.14 min Scan# 859  
Delta R.T. -0.12 min  
Lab File: VW005172.D  
Acq: 06 Sep 2018 18:50

Instrument :  
MSVOA\_W  
ClientSampleId :  
ENY-SB-07-1.5-2RE

Tgt Ion: 43 Resp: 5241  
Ion Ratio Lower Upper  
43 100  
61 102.0 12.1 18.1#  
70 0.6 9.4 14.2#

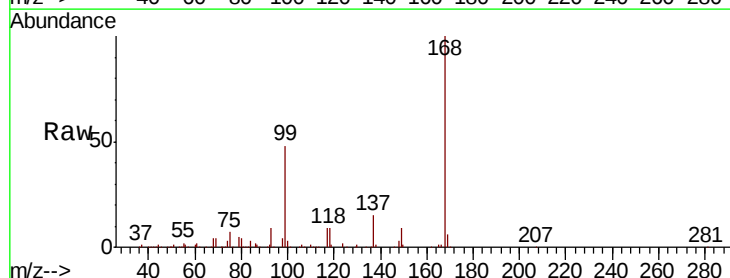


Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 60.90 (60.60 to 61.60): VW  
Ion 70.00 (69.70 to 70.70): VW

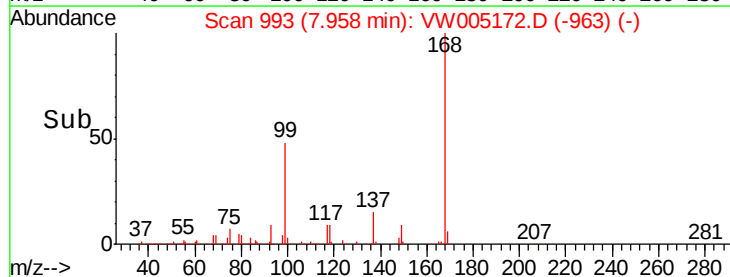
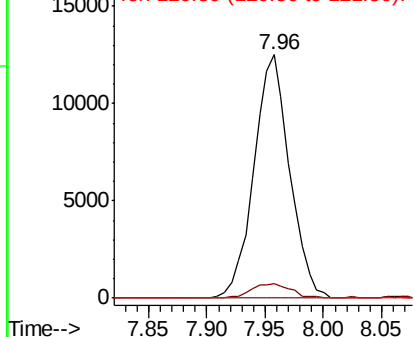


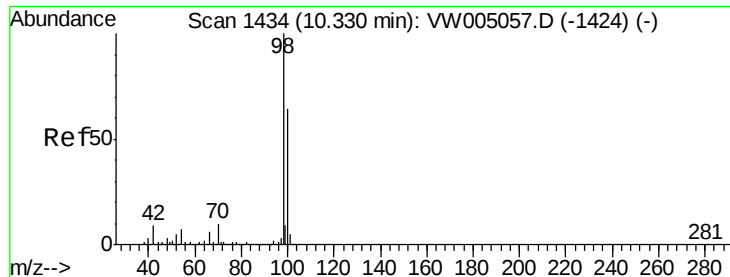
#38  
Carbon Tetrachloride  
Concen: 7.172 ug/l  
RT: 7.96 min Scan# 993  
Delta R.T. -0.12 min  
Lab File: VW005172.D  
Acq: 06 Sep 2018 18:50

Tgt Ion: 117 Resp: 26695  
Ion Ratio Lower Upper  
117 100  
119 5.8 76.6 115.0#  
121 0.0 24.8 37.2#



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: 46.497 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005172.D

Acq: 06 Sep 2018 18:50

Instrument :

MSVOA\_W

ClientSampleId :

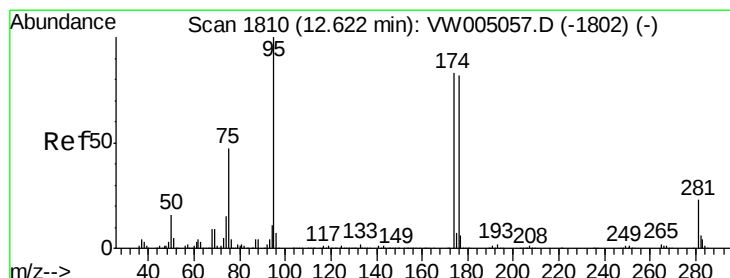
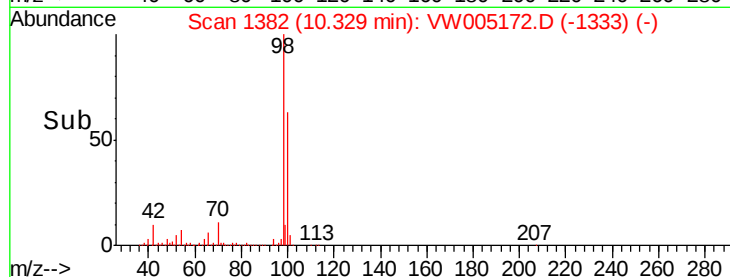
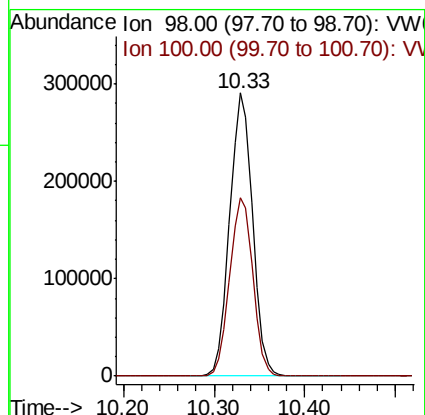
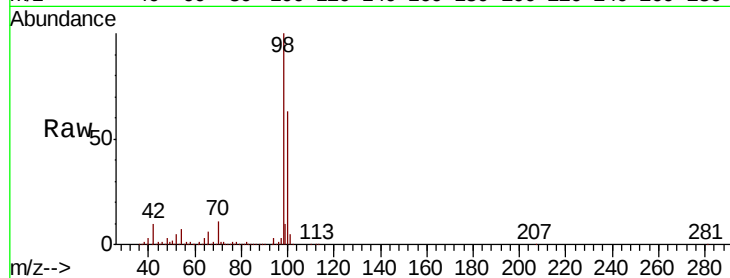
ENY-SB-07-1.5-2RE

Tgt Ion: 98 Resp: 508891

Ion Ratio Lower Upper

98 100

100 63.8 51.7 77.5



#62

4-Bromofluorobenzene

Concen: 14.901 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. 0.01 min

Lab File: VW005172.D

Acq: 06 Sep 2018 18:50

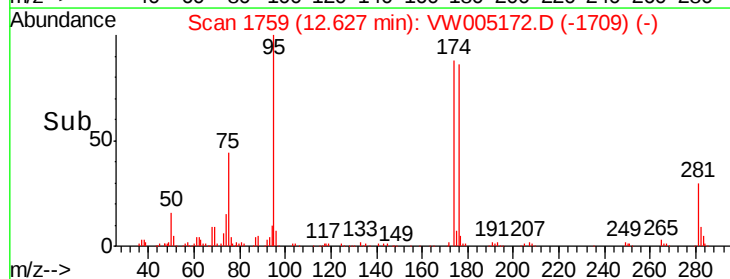
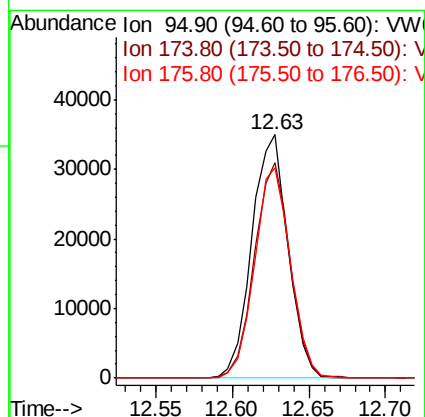
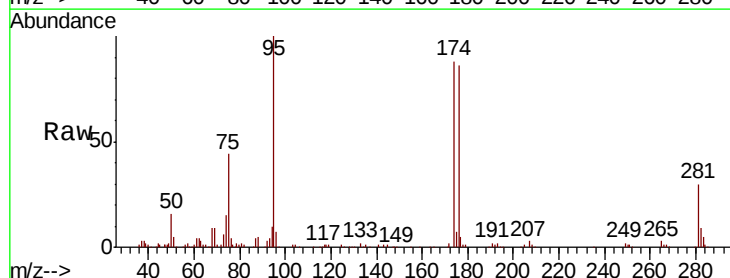
Tgt Ion: 95 Resp: 57506

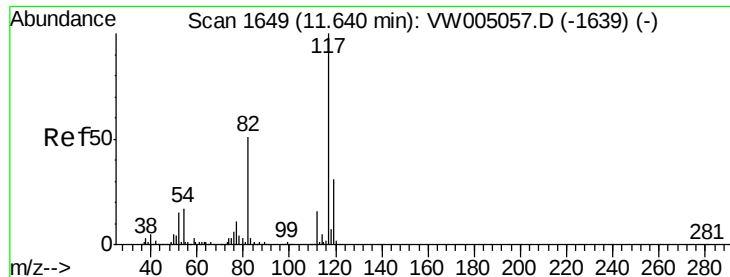
Ion Ratio Lower Upper

95 100

174 87.1 0.0 173.4

176 85.8 0.0 167.4

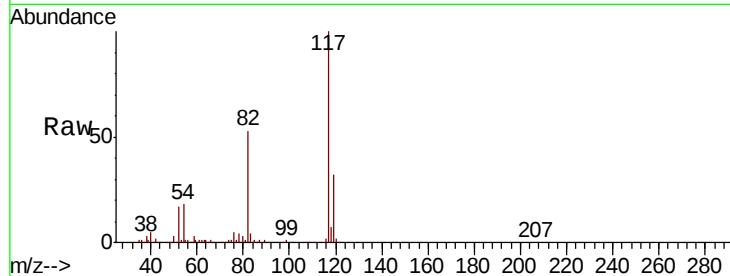




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.01 min  
Lab File: VW005172.D  
Acq: 06 Sep 2018 18:50

Instrument :  
MSVOA\_W  
ClientSampleId :  
ENY-SB-07-1.5-2RE

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.3  | 40.9  | 61.3  |
| 119     | 32.0  | 24.9  | 37.3  |

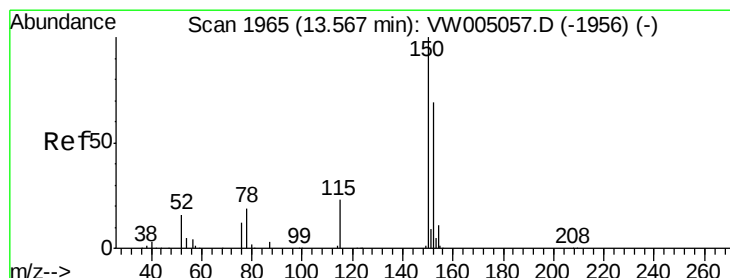
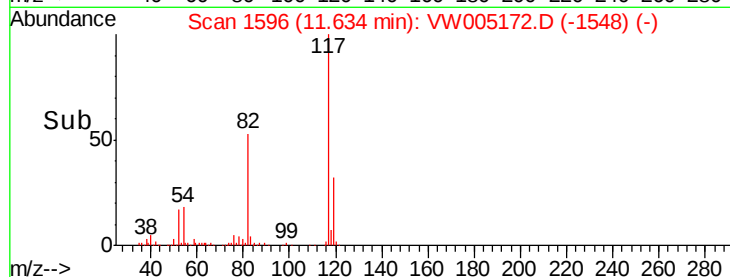
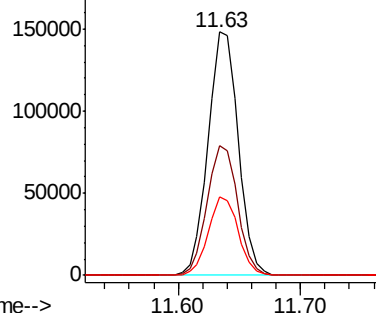


Abundance

Ion 116.90 (116.60 to 117.60): V

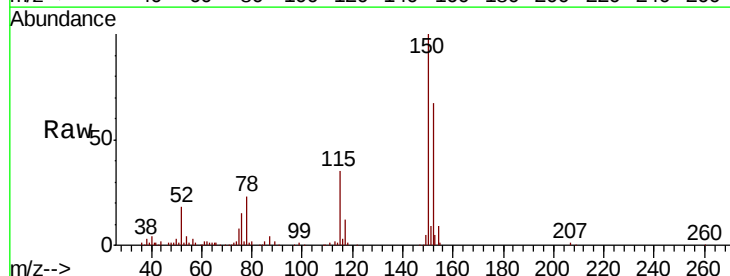
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1913  
Delta R.T. -0.00 min  
Lab File: VW005172.D  
Acq: 06 Sep 2018 18:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.6  | 27.8  | 83.4  |
| 150     | 156.4 | 0.0   | 351.4 |

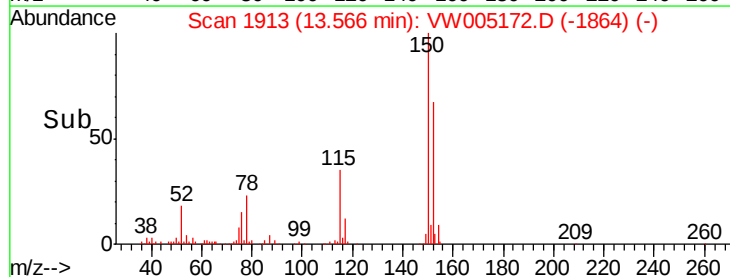
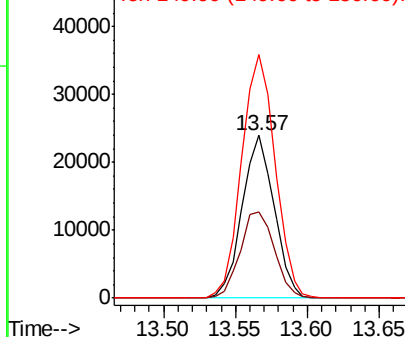


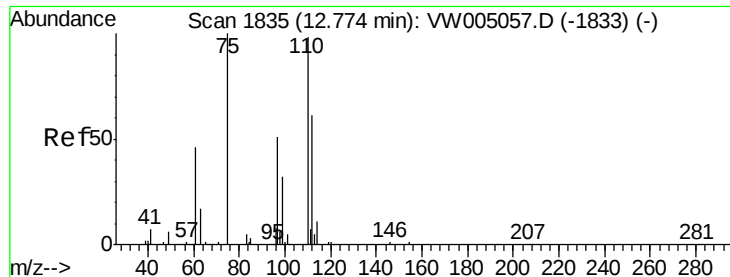
Abundance

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: 95.545 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. -0.15 min

Lab File: VW005172.D

Acq: 06 Sep 2018 18:50

Instrument :

MSVOA\_W

ClientSampleId :

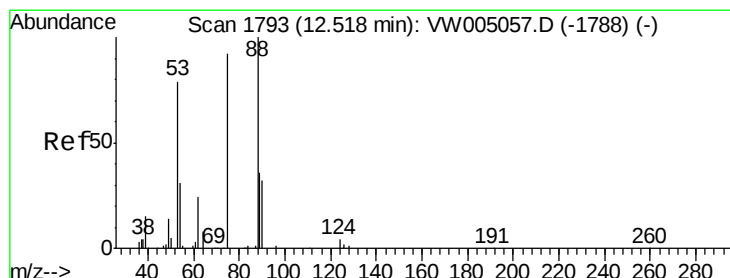
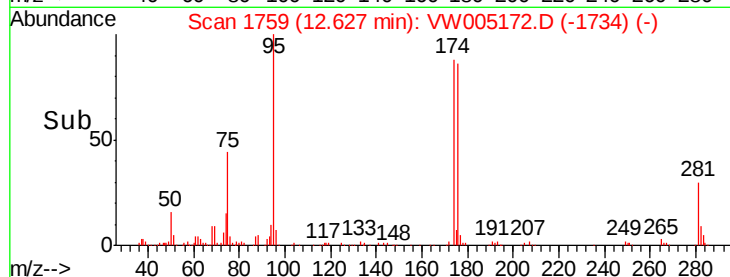
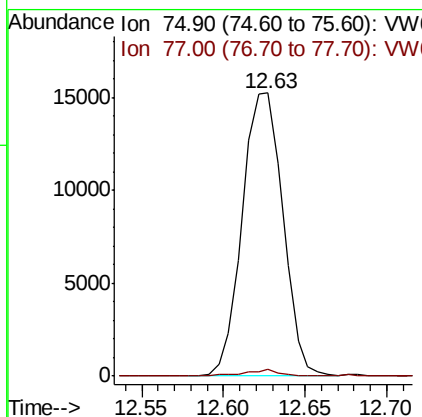
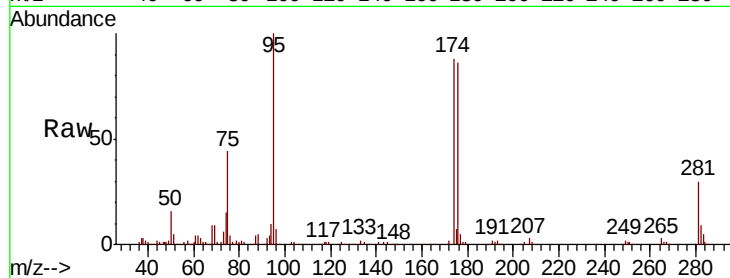
ENY-SB-07-1.5-2RE

Tgt Ion: 75 Resp: 26563

Ion Ratio Lower Upper

75 100

77 2.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 229.966 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. 0.11 min

Lab File: VW005172.D

Acq: 06 Sep 2018 18:50

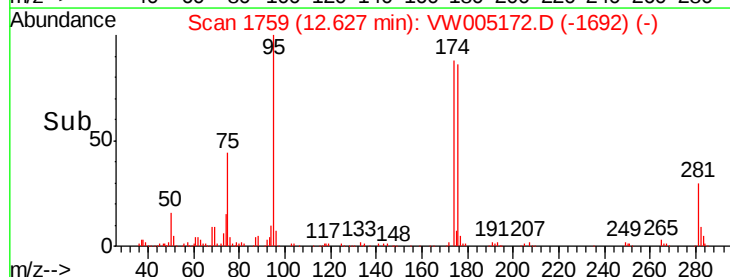
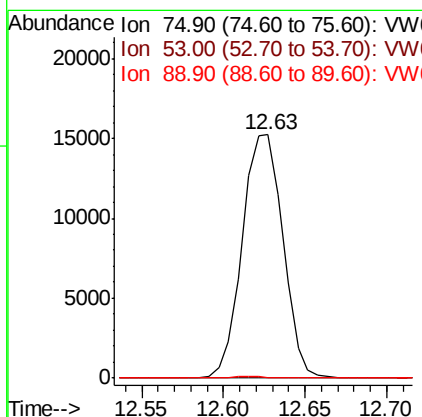
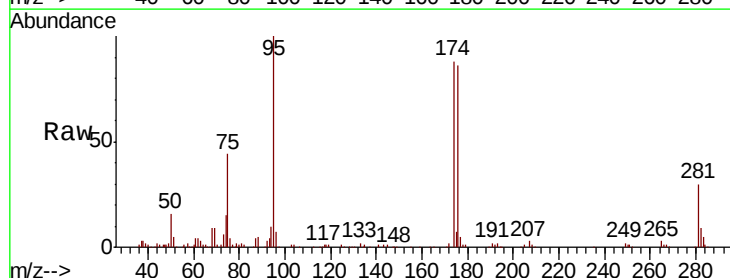
Tgt Ion: 75 Resp: 26563

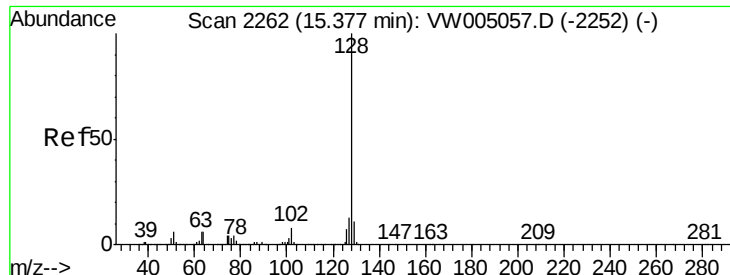
Ion Ratio Lower Upper

75 100

53 0.2 69.8 104.8#

89 0.4 36.0 54.0#





#95

Naphthalene

Concen: 4.392 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. -0.00 min

Lab File: VW005172.D

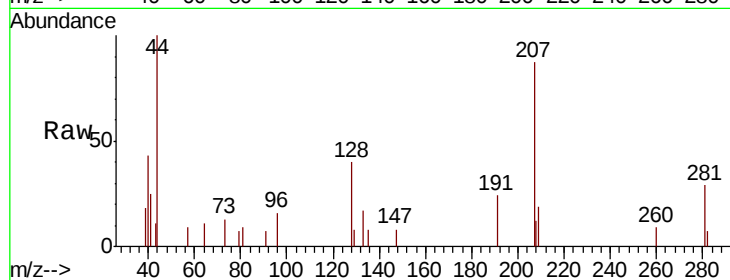
Acq: 06 Sep 2018 18:50

Instrument :

MSVOA\_W

ClientSampleId :

ENY-SB-07-1.5-2RE



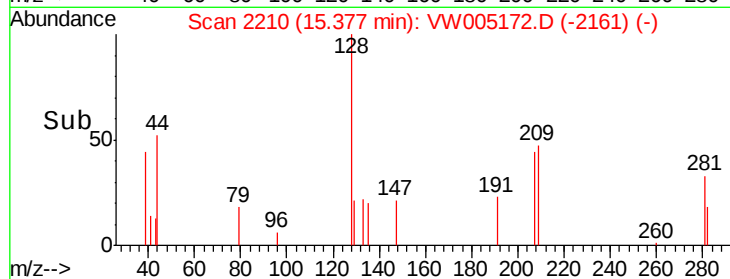
Tgt Ion:128 Resp: 598

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 4.3 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

