

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101818\  
 Data File : VW006184.D  
 Acq On : 18 Oct 2018 18:53  
 Operator : VA/AP  
 Sample : J5585-01  
 Misc : 5.29G/5ML/MSVOA W/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SSSI-1017-S-DH-20

Quant Time: Oct 19 06:03:27 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 18 17:01:24 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 257335   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 381176   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 344257   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 181321   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |       |     |          |       |         |      |
|---------------------------|-------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31  | 65  | 114590   | 53.71 | ug/l    | 0.00 |
| Spiked Amount             |       |     |          |       |         |      |
|                           |       |     | Recovery | =     | 107.42% |      |
| 35) Dibromofluoromethane  | 7.89  | 113 | 111591   | 49.54 | ug/l    | 0.00 |
| Spiked Amount             |       |     |          |       |         |      |
|                           |       |     | Recovery | =     | 99.08%  |      |
| 50) Toluene-d8            | 10.33 | 98  | 411319   | 48.00 | ug/l    | 0.00 |
| Spiked Amount             |       |     |          |       |         |      |
|                           |       |     | Recovery | =     | 96.00%  |      |
| 62) 4-Bromofluorobenzene  | 12.62 | 95  | 153297   | 47.63 | ug/l    | 0.00 |
| Spiked Amount             |       |     |          |       |         |      |
|                           |       |     | Recovery | =     | 95.26%  |      |

## Target Compounds

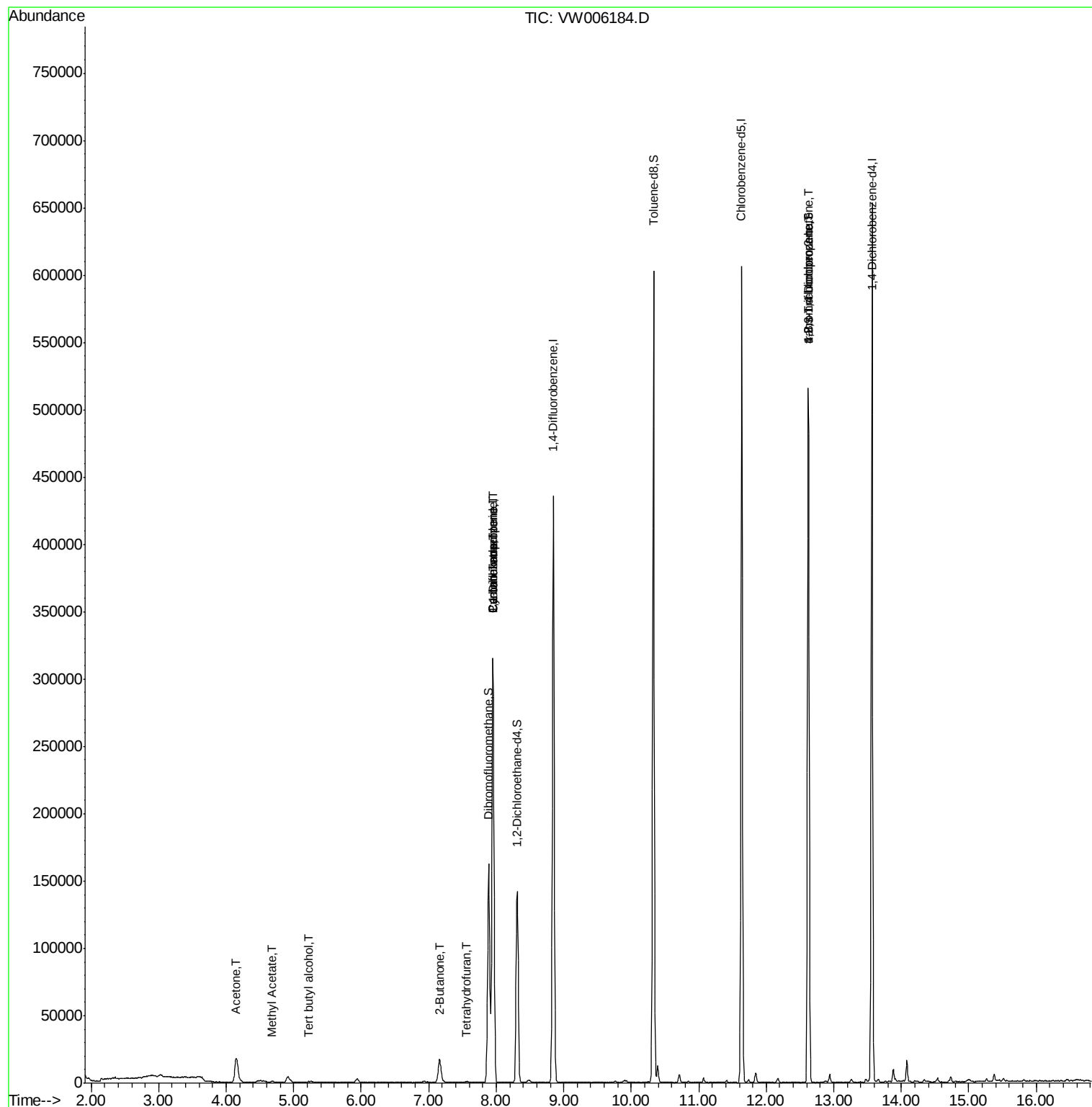
|                                |       |     |       |           | Qvalue |     |
|--------------------------------|-------|-----|-------|-----------|--------|-----|
| 11) Tert butyl alcohol         | 5.23  | 59  | 821   | 5.722     | ug/l # | 71  |
| 16) Acetone                    | 4.15  | 43  | 39486 | 89.127    | ug/l   | 98  |
| 18) Methyl Acetate             | 4.68  | 43  | 1286  | 1.198     | ug/l # | 79  |
| 20) Methylene Chloride         | 4.90  | 84  | 1851  | Below Cal | #      | 75  |
| 25) 2-Butanone                 | 7.15  | 43  | 1109  | 1.924     | ug/l # | 46  |
| 29) Tetrahydrofuran            | 7.56  | 42  | 411   | 1.160     | ug/l # | 40  |
| 31) Cyclohexane                | 7.95  | 56  | 4716  | 1.208     | ug/l # | 13  |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 16752 | 4.768     | ug/l # | 48  |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 22796 | 5.919     | ug/l # | 17  |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 77943 | 56.279    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 77943 | 134.529   | ug/l # | 10  |

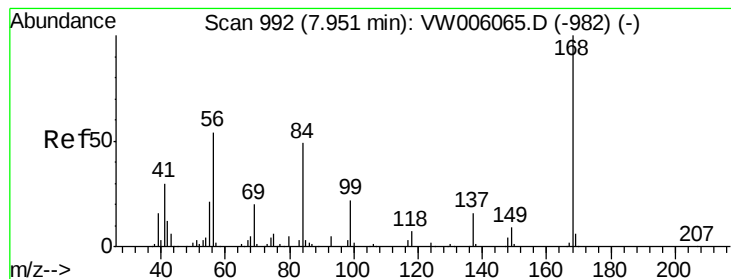
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_W  
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SSSI-1017-S-DH-20

Quant Time: Oct 19 06:03:27 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 18 17:01:24 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW006184.D

Acq: 18 Oct 2018 18:53

Instrument :

MSVOA\_W

ClientSampleId :

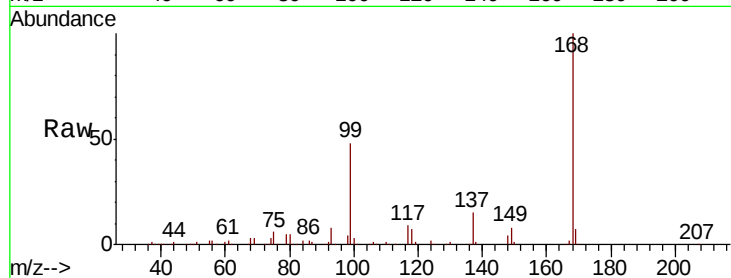
SSSI-1017-S-DH-20

Tot Ion:168 Resp: 257335

Ion Ratio Lower Upper

168 100

99 48.3 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

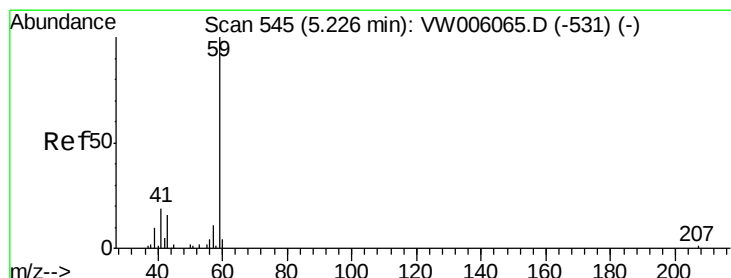
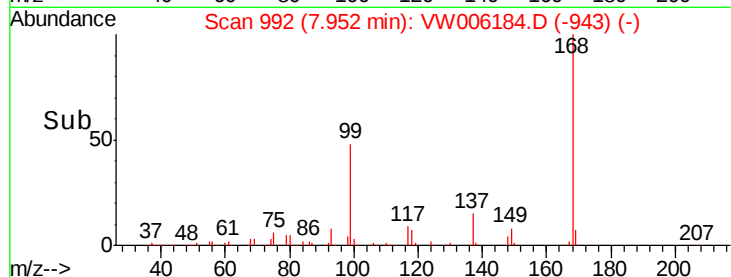
7.95

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 5.722 ug/l

RT: 5.23 min Scan# 545

Delta R.T. 0.00 min

Lab File: VW006184.D

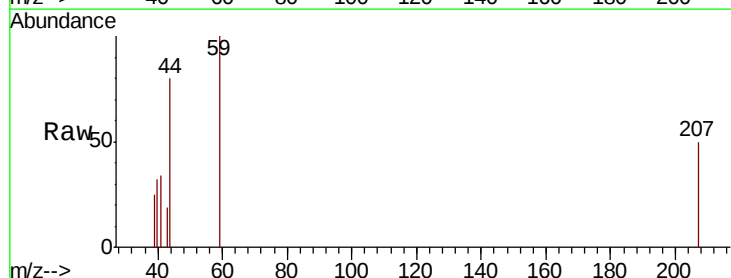
Acq: 18 Oct 2018 18:53

Tgt Ion: 59 Resp: 821

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.23

400

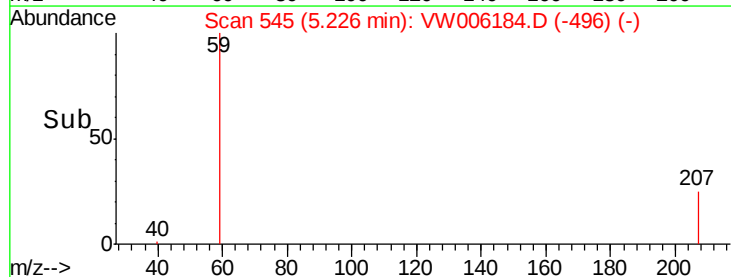
300

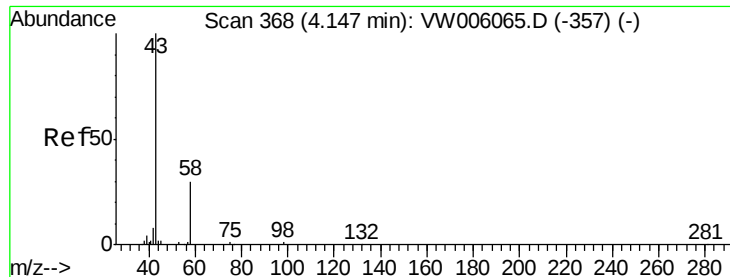
200

100

0

Time-->





#16

Acetone

Concen: 89.127 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.00 min

Lab File: VW006184.D

Acq: 18 Oct 2018 18:53

Instrument :

MSVOA\_W

ClientSampleId :

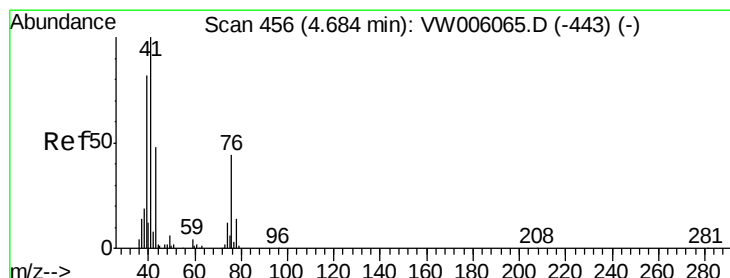
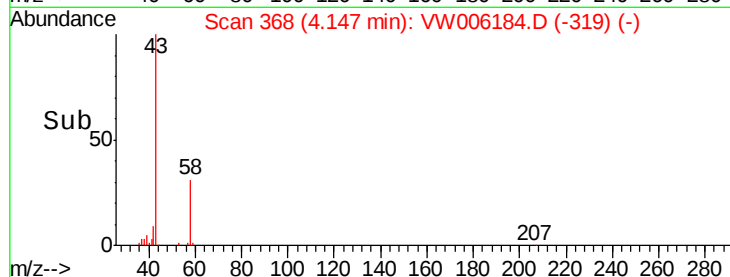
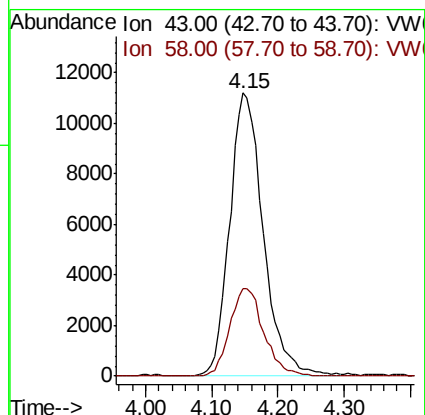
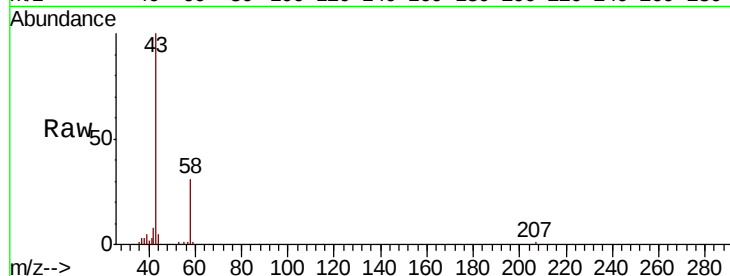
SSSI-1017-S-DH-20

Tot Ion: 43 Resp: 39486

Ion Ratio Lower Upper

43 100

58 31.0 24.0 36.0



#18

Methyl Acetate

Concen: 1.198 ug/l

RT: 4.68 min Scan# 455

Delta R.T. -0.01 min

Lab File: VW006184.D

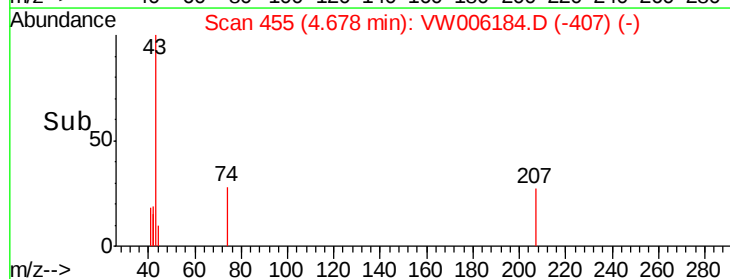
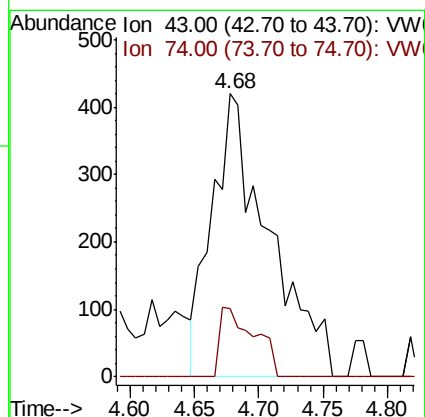
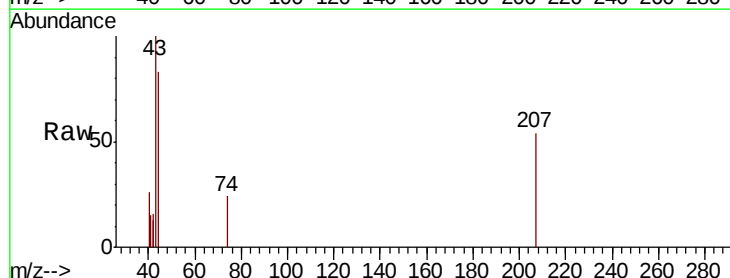
Acq: 18 Oct 2018 18:53

Tgt Ion: 43 Resp: 1286

Ion Ratio Lower Upper

43 100

74 15.0 20.5 30.7#





#25

2-Butanone

Concen: 1.924 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.03 min

Lab File: VW006184.D

Acq: 18 Oct 2018 18:53

Instrument :

MSVOA\_W

ClientSampleId :

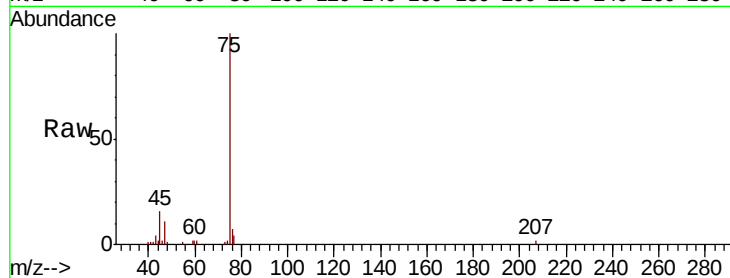
SSSI-1017-S-DH-20

Tot Ion: 43 Resp: 1109

Ion Ratio Lower Upper

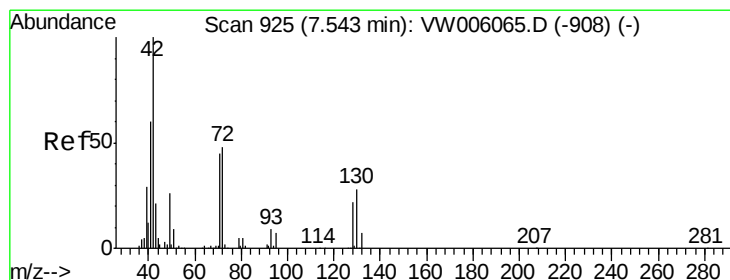
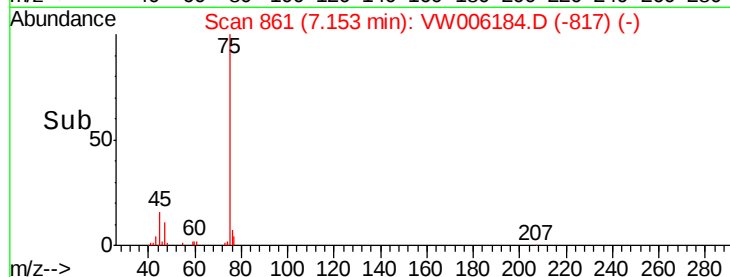
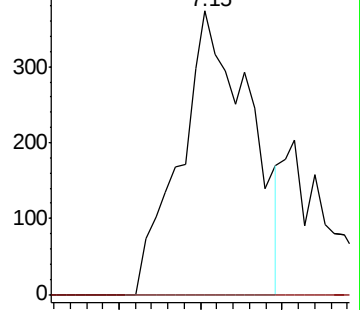
43 100

72 0.0 22.8 34.2#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#29

Tetrahydrofuran

Concen: 1.160 ug/l

RT: 7.56 min Scan# 927

Delta R.T. 0.01 min

Lab File: VW006184.D

Acq: 18 Oct 2018 18:53

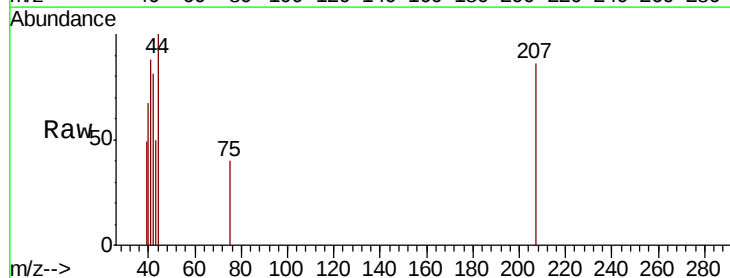
Tgt Ion: 42 Resp: 411

Ion Ratio Lower Upper

42 100

72 11.9 38.0 57.0#

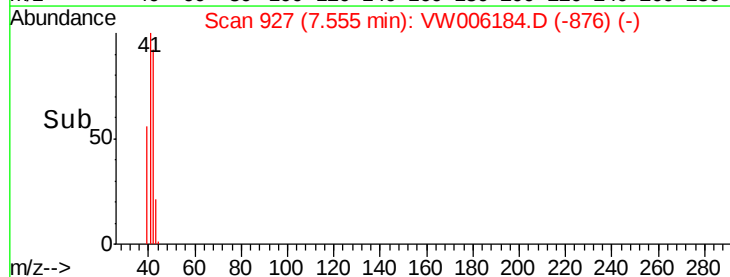
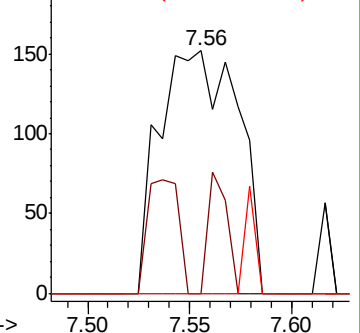
71 0.0 35.3 52.9#

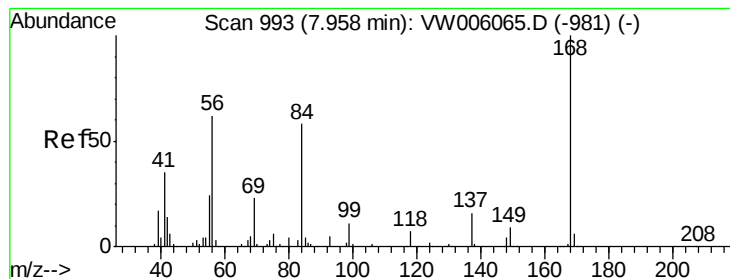


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW





#31

Cyclohexane

Concen: 1.208 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW006184.D

Acq: 18 Oct 2018 18:53

Instrument :

MSVOA\_W

ClientSampleId :

SSSI-1017-S-DH-20

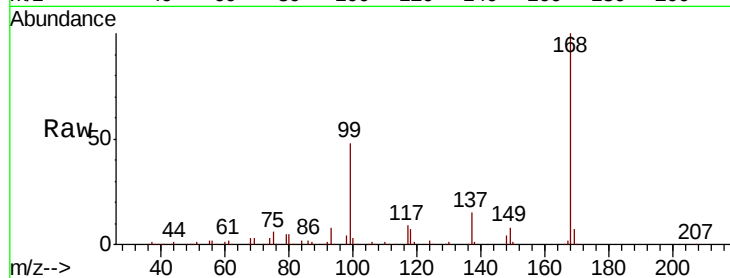
Tot Ion: 56 Resp: 4716

Ion Ratio Lower Upper

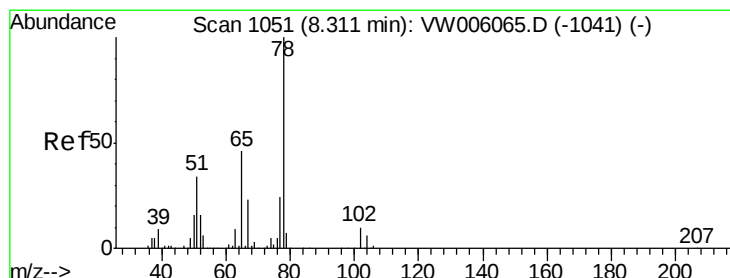
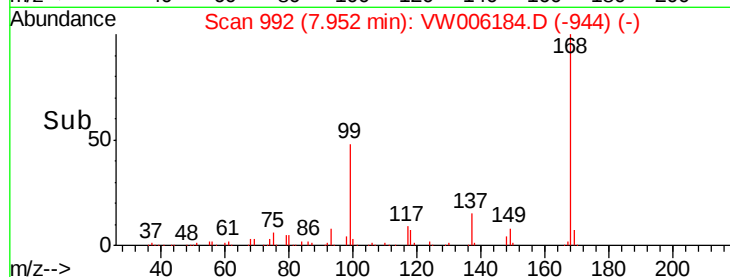
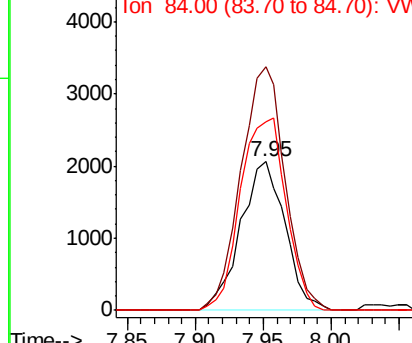
56 100

69 164.1 29.4 44.0#

84 126.7 74.0 111.0#



Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 53.711 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VW006184.D

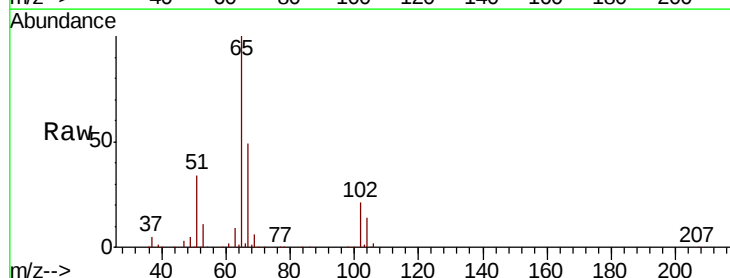
Acq: 18 Oct 2018 18:53

Tgt Ion: 65 Resp: 114590

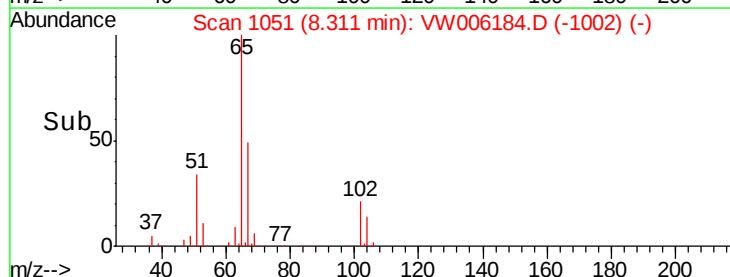
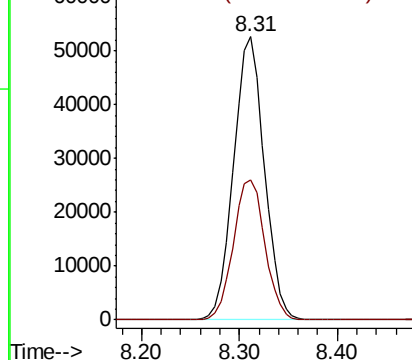
Ion Ratio Lower Upper

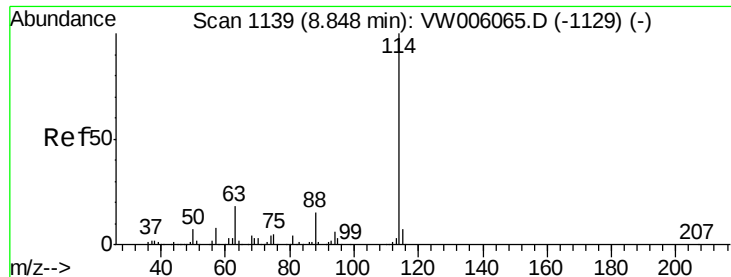
65 100

67 50.9 0.0 101.0



Abundance Ion 64.90 (64.60 to 65.60): VW  
Ion 66.90 (66.60 to 67.60): VW

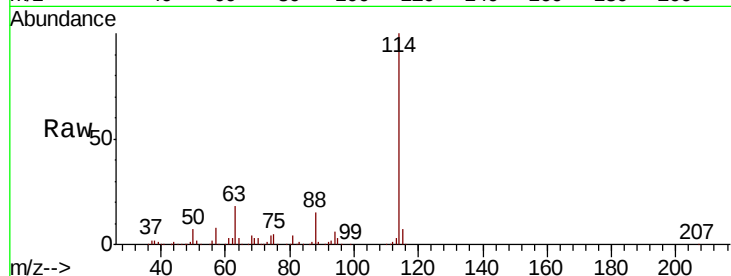




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.00 min  
 Lab File: VW006184.D  
 Acq: 18 Oct 2018 18:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SSSI-1017-S-DH-20

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 18.4  | 0.0   | 36.8  |
| 88      | 14.9  | 0.0   | 29.0  |

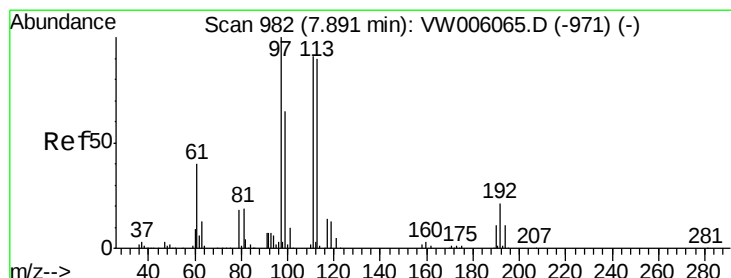
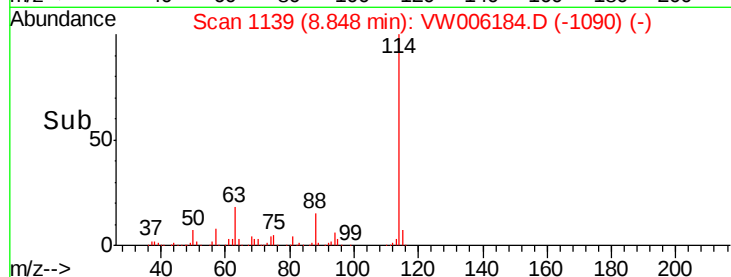
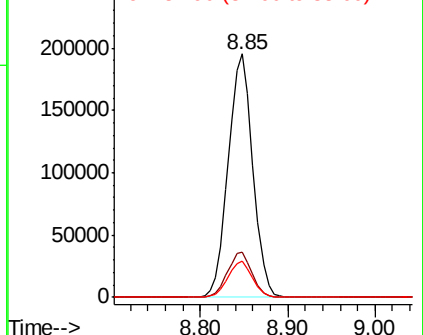


Abundance

Ion 113.90 (113.60 to 114.60): V

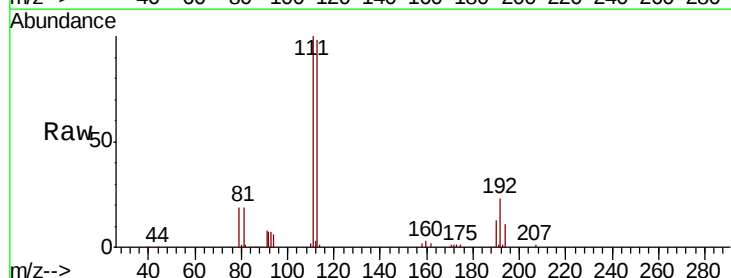
Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35  
 Dibromofluoromethane  
 Concen: 49.544 ug/l  
 RT: 7.89 min Scan# 982  
 Delta R.T. 0.00 min  
 Lab File: VW006184.D  
 Acq: 18 Oct 2018 18:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.0 | 81.4  | 122.0 |
| 192     | 23.5  | 18.7  | 28.1  |

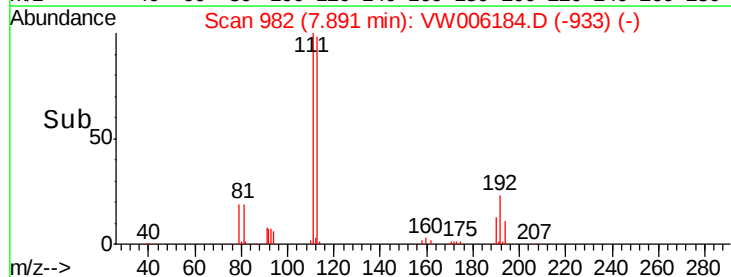
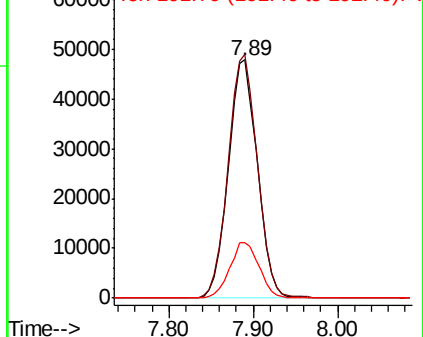


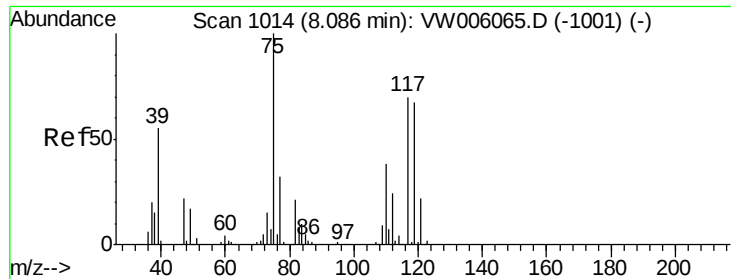
Abundance

Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

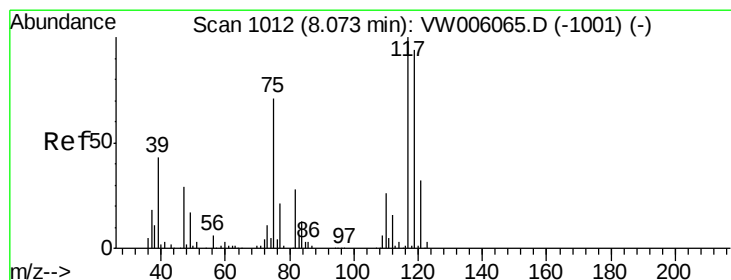
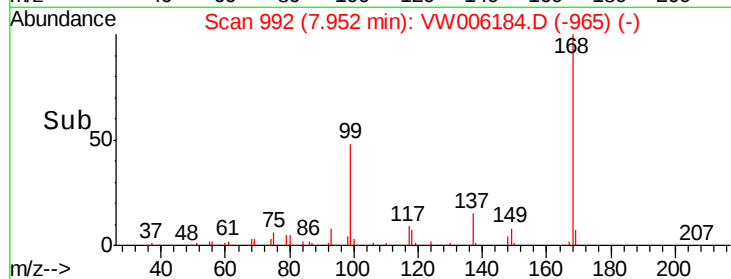
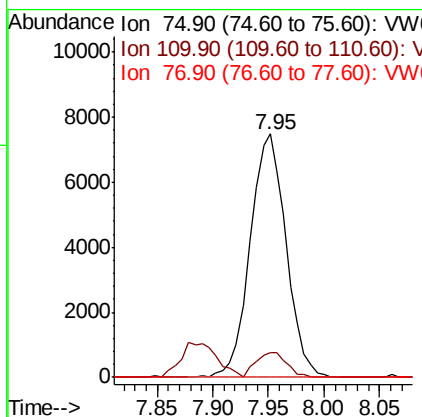
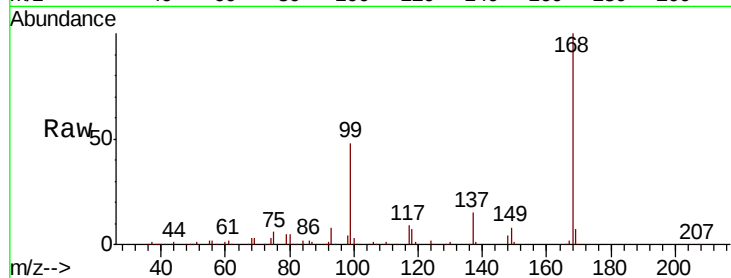




#36  
 1,1-Dichloropropene  
 Concen: 4.768 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.13 min  
 Lab File: VW006184.D  
 Acq: 18 Oct 2018 18:53

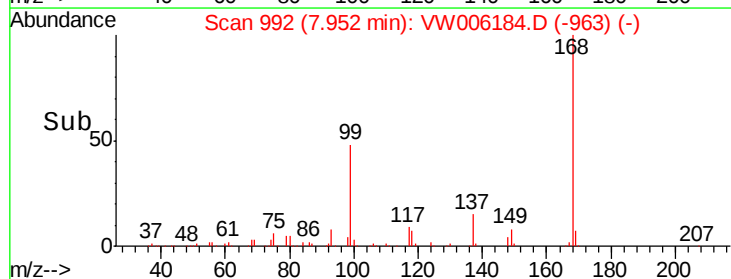
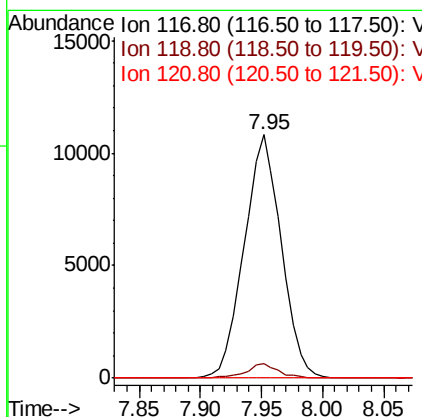
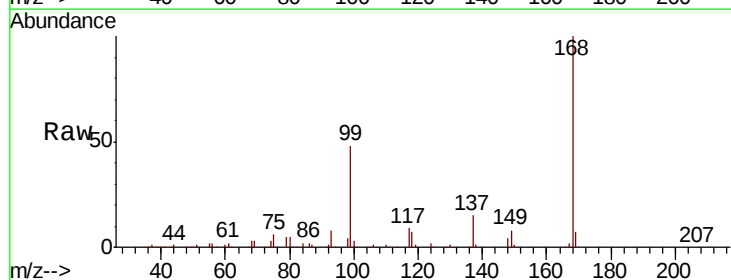
Instrument :  
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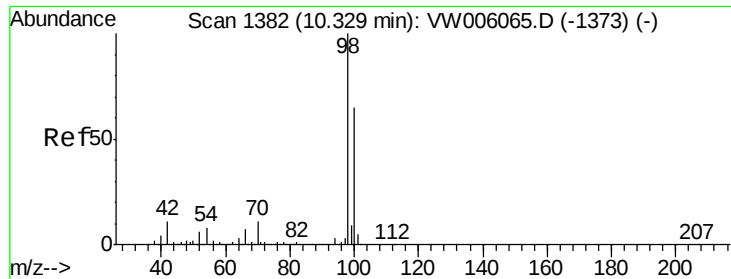
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.8   | 19.1  | 57.1# |
| 77      | 0.0   | 25.0  | 37.4# |



#38  
 Carbon Tetrachloride  
 Concen: 5.919 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.12 min  
 Lab File: VW006184.D  
 Acq: 18 Oct 2018 18:53

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.8   | 75.2  | 112.8# |
| 121     | 0.0   | 25.3  | 37.9#  |





#50

Toluene-d8

Concen: 48.000 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW006184.D

Acq: 18 Oct 2018 18:53

Instrument :

MSVOA\_W

ClientSampleId :

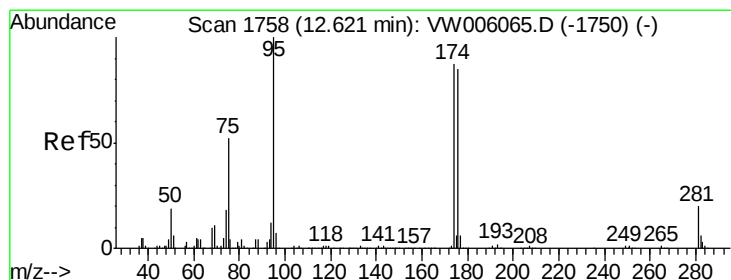
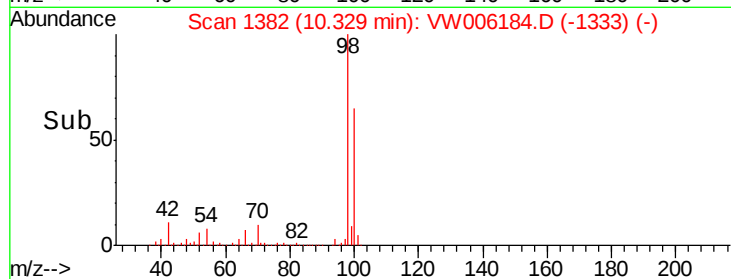
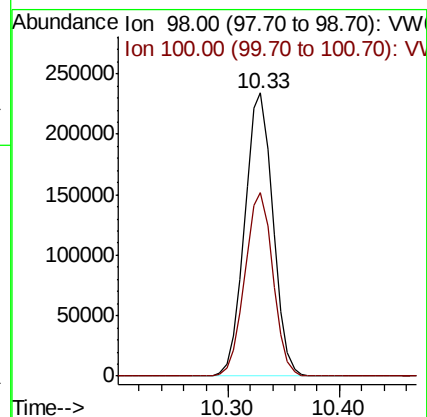
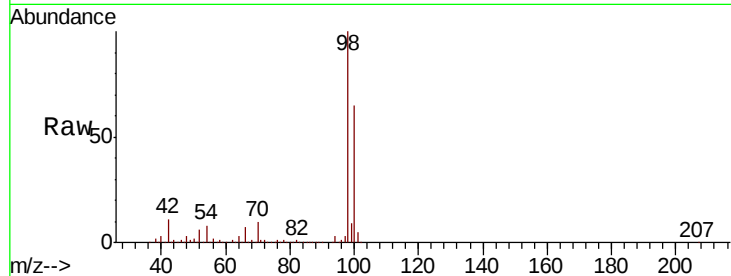
SSSI-1017-S-DH-20

Tot Ion: 98 Resp: 411319

Ion Ratio Lower Upper

98 100

100 64.6 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 47.631 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW006184.D

Acq: 18 Oct 2018 18:53

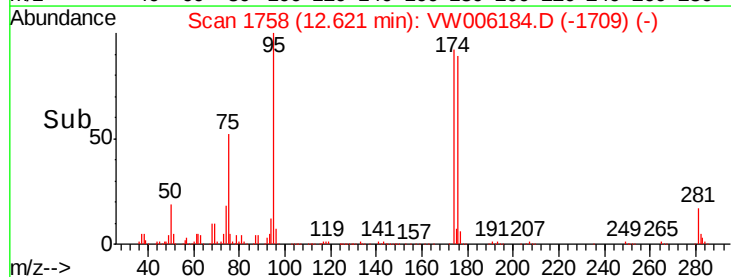
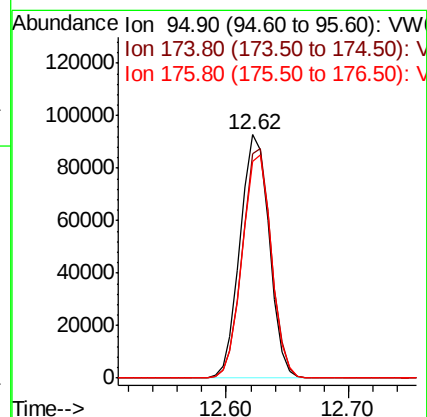
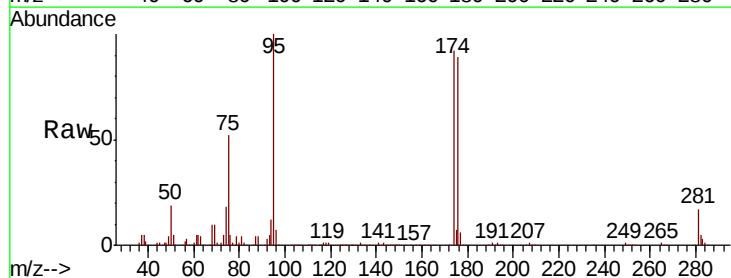
Tgt Ion: 95 Resp: 153297

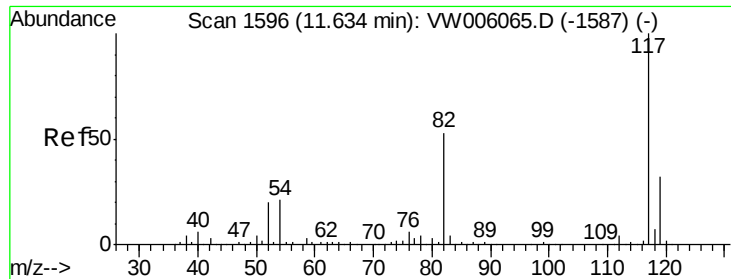
Ion Ratio Lower Upper

95 100

174 93.7 0.0 186.0

176 91.6 0.0 181.6

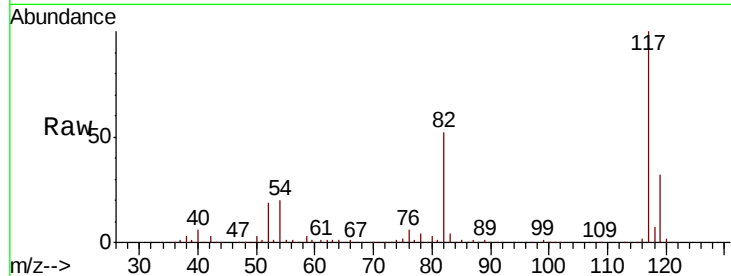




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW006184.D  
Acq: 18 Oct 2018 18:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
SSSI-1017-S-DH-20

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 51.9  | 42.1  | 63.1  |
| 119     | 32.3  | 25.8  | 38.6  |

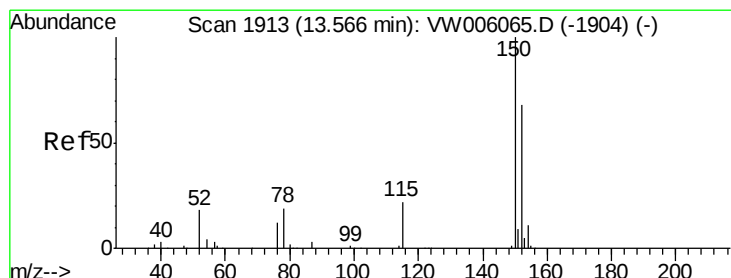
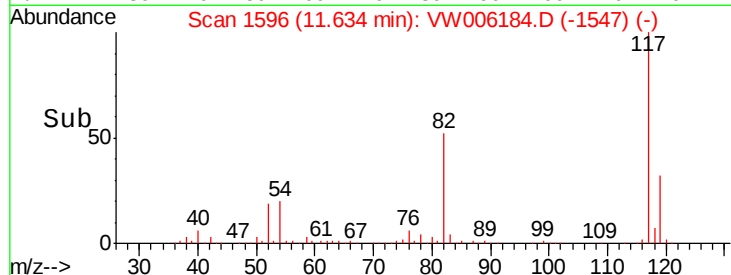
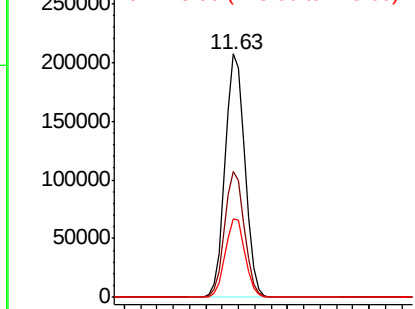


Abundance

Ion 116.90 (116.60 to 117.60): V

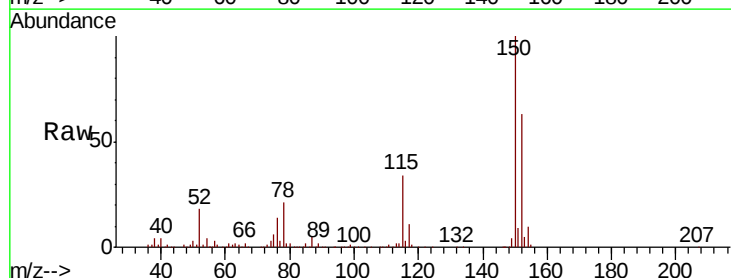
Ion 82.00 (81.70 to 82.70): V

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: VW006184.D  
Acq: 18 Oct 2018 18:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.0  | 27.8  | 83.3  |
| 150     | 157.2 | 0.0   | 349.2 |

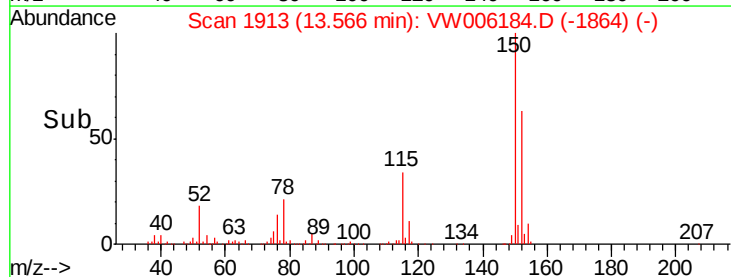
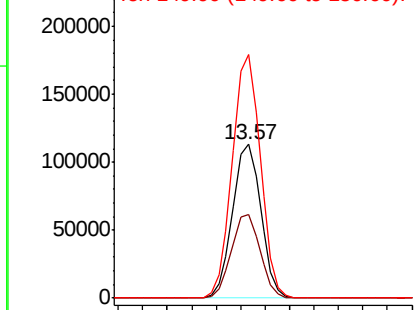


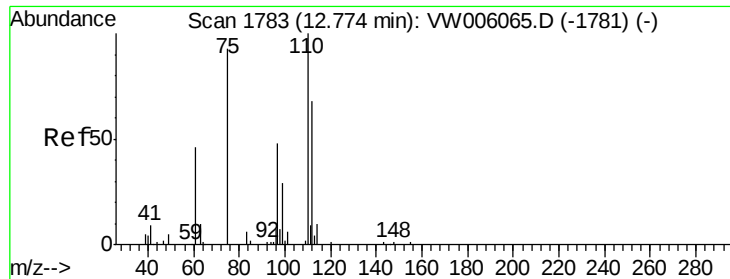
Abundance

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: 56.279 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006184.D

Acq: 18 Oct 2018 18:53

Instrument :

MSVOA\_W

ClientSampleId :

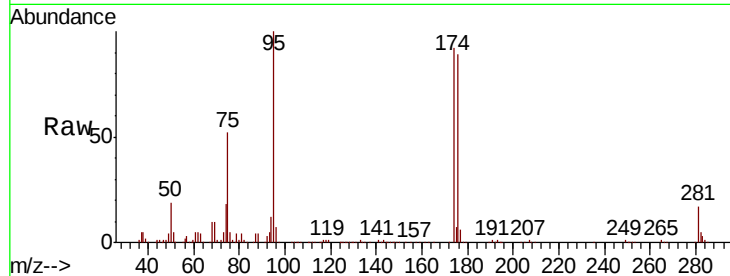
SSSI-1017-S-DH-20

Tot Ion: 75 Resp: 77943

Ion Ratio Lower Upper

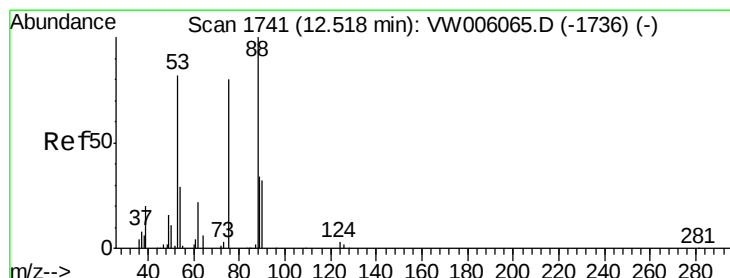
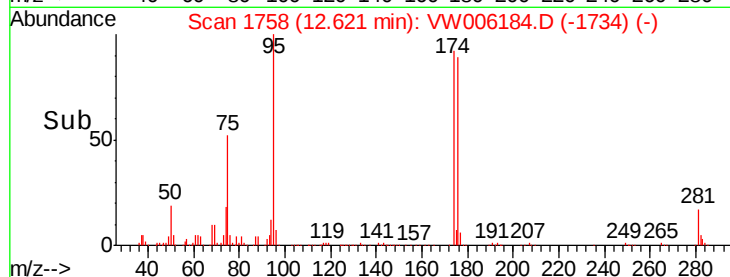
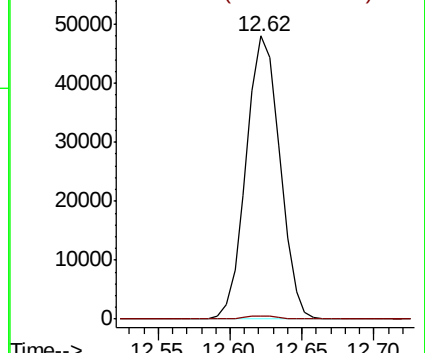
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#81

trans-1,4-Dichloro-2-butene

Concen: 134.529 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW006184.D

Acq: 18 Oct 2018 18:53

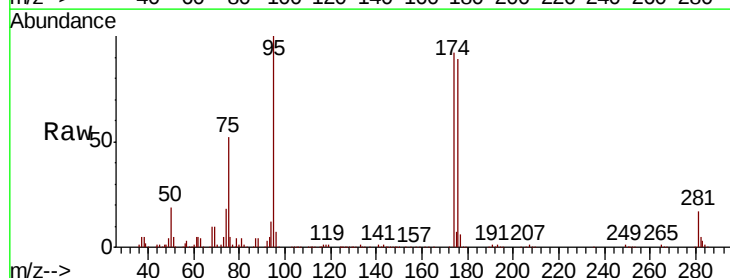
Tgt Ion: 75 Resp: 77943

Ion Ratio Lower Upper

75 100

53 0.0 79.8 119.6#

89 0.1 37.5 56.3#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

