

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062818\  
 Data File : VW003642.D  
 Acq On : 28 Jun 2018 16:50  
 Operator : SY/AP  
 Sample : J3048-10RE  
 Misc : 5.90G/5ML/MSVOA W/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jun 29 06:45:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W061318S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 05:18:54 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 133993   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 206960   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 164155   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 58875    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 80561    | 55.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.02% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 72032    | 56.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.02% |          |
| 50) Toluene-d8              | 10.33 | 98   | 231199   | 45.34 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.68%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 70503    | 39.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 78.14%  |          |

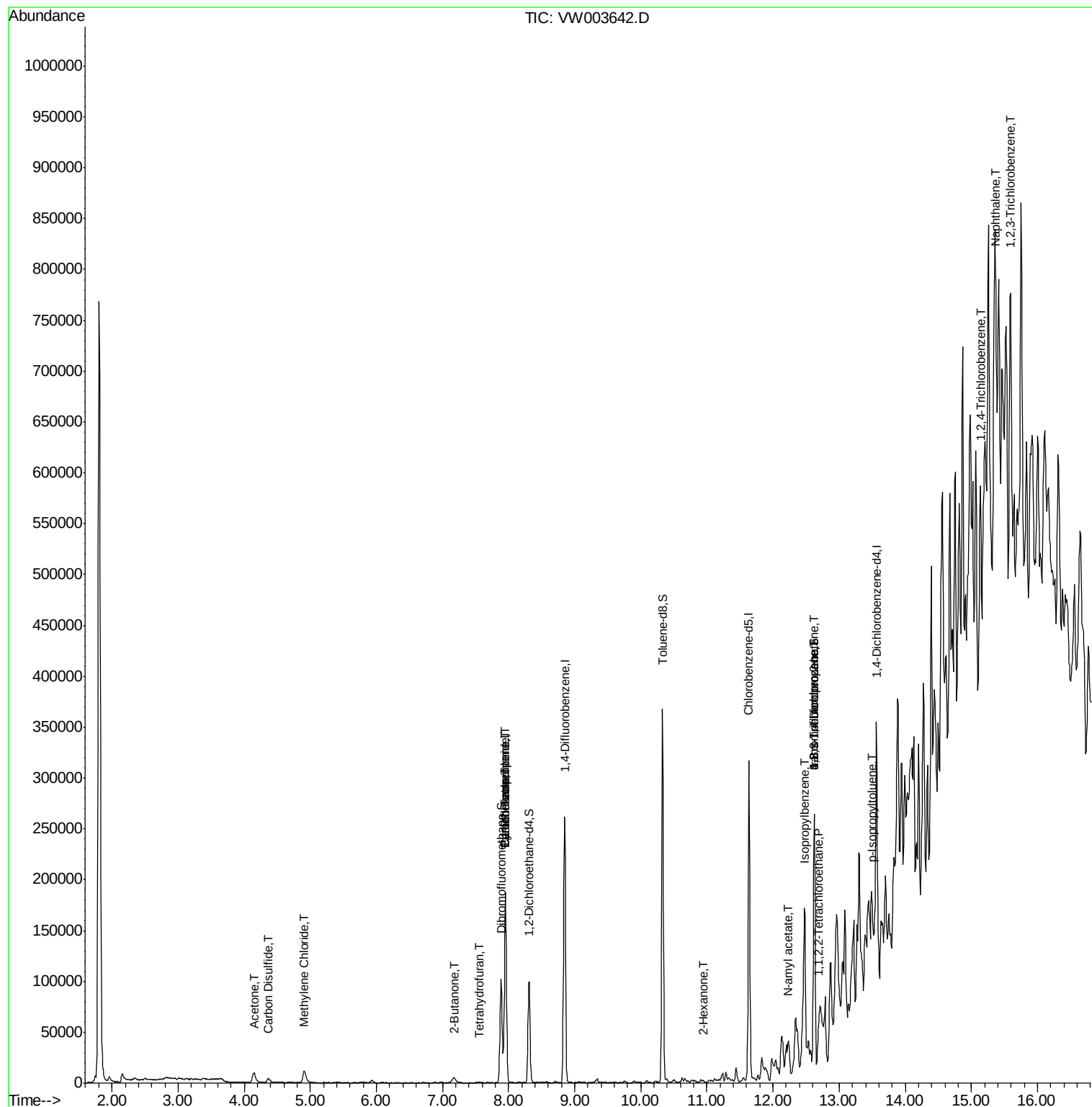
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                    | 4.15  | 43   | 19988    | 65.665  | ug/l   | 95     |
| 17) Carbon Disulfide           | 4.37  | 76   | 9778     | 2.727   | ug/l # | 95     |
| 20) Methylene Chloride         | 4.90  | 84   | 9063     | 3.603   | ug/l   | 92     |
| 25) 2-Butanone                 | 7.18  | 43   | 4024     | 10.631  | ug/l # | 84     |
| 29) Tetrahydrofuran            | 7.55  | 42   | 236      | 1.020   | ug/l # | 83     |
| 31) Cyclohexane                | 7.95  | 56   | 4184     | 1.784   | ug/l # | 30     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 11645    | 5.826   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 13167    | 6.716   | ug/l # | 17     |
| 59) 2-Hexanone                 | 10.95 | 43   | 1064     | 1.818   | ug/l # | 32     |
| 73) Isopropylbenzene           | 12.48 | 105  | 6834     | 1.669   | ug/l # | 70     |
| 74) N-amyl acetate             | 12.23 | 43   | 5658     | 6.070   | ug/l # | 1      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.69 | 83   | 4324     | 6.241   | ug/l # | 57     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 37193    | 73.896  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 37193    | 170.040 | ug/l # | 11     |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 11831    | 3.081   | ug/l   | 93     |
| 93) 1,2,4-Trichlorobenzene     | 15.14 | 180  | 1250     | 1.038   | ug/l # | 1      |
| 95) Naphthalene                | 15.38 | 128  | 168925   | 82.659  | ug/l # | 94     |
| 96) 1,2,3-Trichlorobenzene     | 15.60 | 180  | 3811     | 3.594   | ug/l # | 63     |

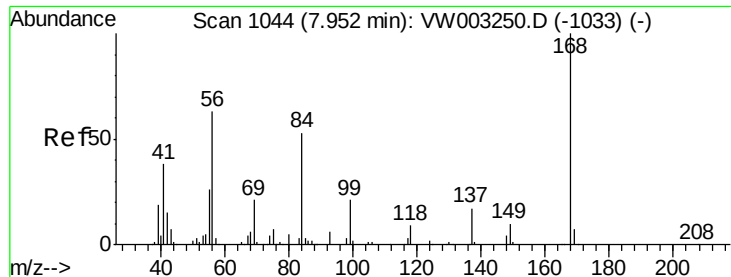
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW062818\  
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Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Jun 29 06:45:09 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W061318S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 16 05:18:54 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW003642.D

Acq: 28 Jun 2018 16:50

Instrument :

MSVOA\_W

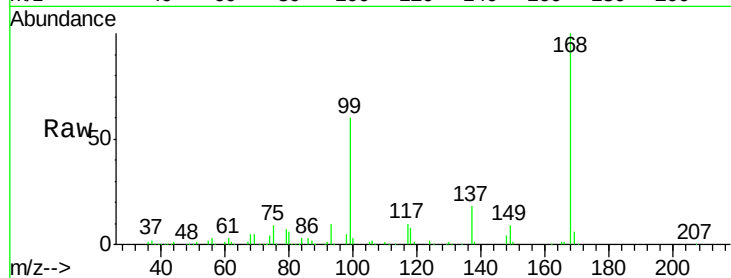
ClientSampled :

Tot Ion:168 Resp: 133993

Ion Ratio Lower Upper

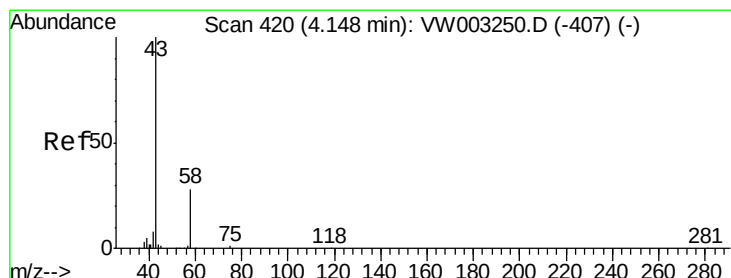
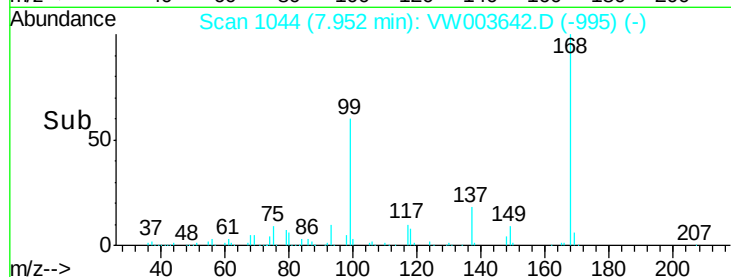
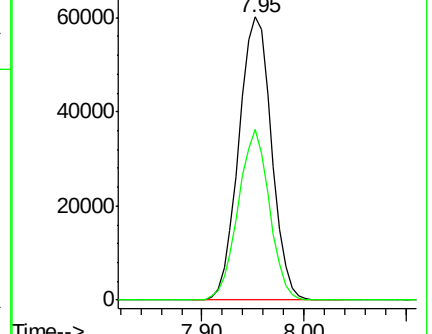
168 100

99 60.4 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 65.665 ug/l

RT: 4.15 min Scan# 420

Delta R.T. 0.00 min

Lab File: VW003642.D

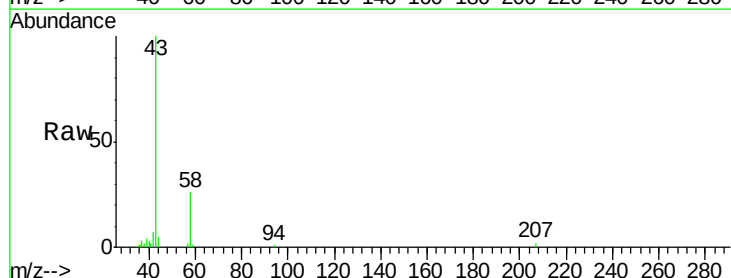
Acq: 28 Jun 2018 16:50

Tgt Ion: 43 Resp: 19988

Ion Ratio Lower Upper

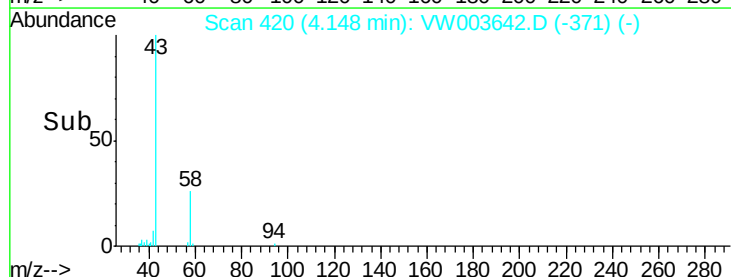
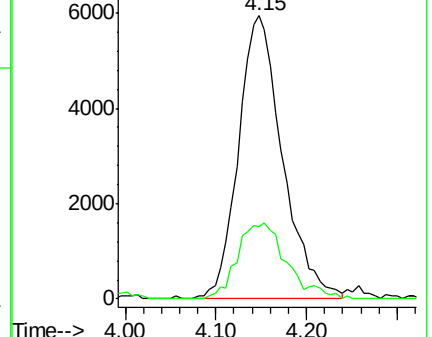
43 100

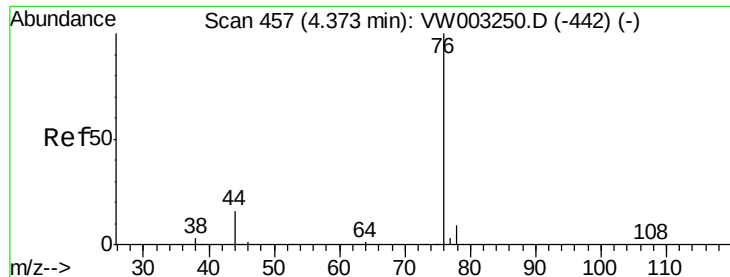
58 25.5 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 2.727 ug/l

RT: 4.37 min Scan# 456

Delta R.T. -0.01 min

Lab File: VW003642.D

Acq: 28 Jun 2018 16:50

Instrument :

MSVOA\_W

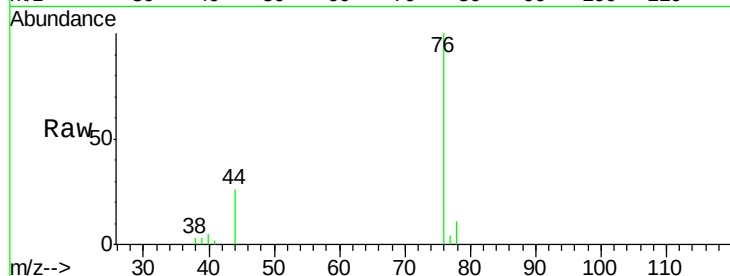
ClientSampleId :

Tot Ion: 76 Resp: 9778

Ion Ratio Lower Upper

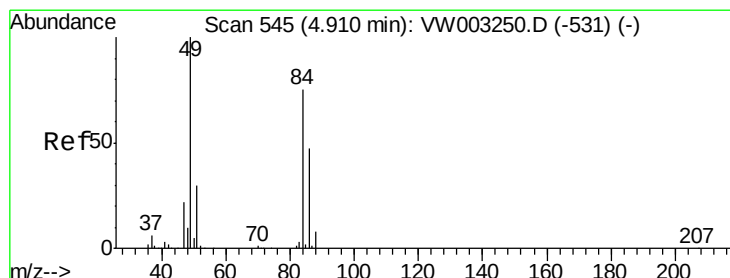
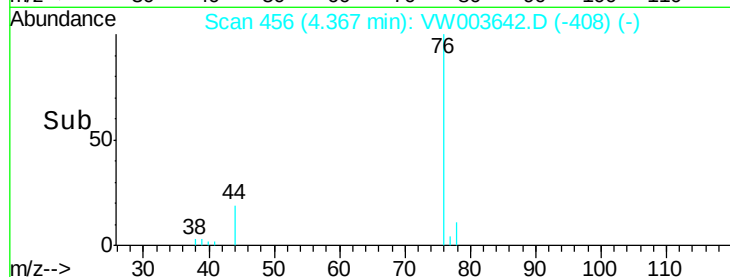
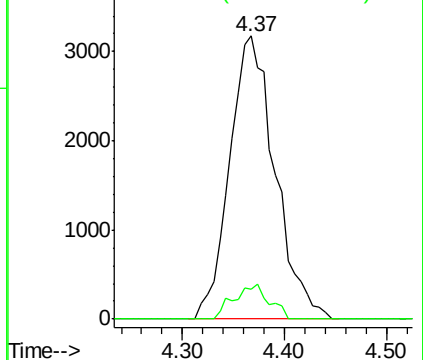
76 100

78 10.8 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#20

Methylene Chloride

Concen: 3.603 ug/l

RT: 4.90 min Scan# 544

Delta R.T. -0.01 min

Lab File: VW003642.D

Acq: 28 Jun 2018 16:50

Tgt Ion: 84 Resp: 9063

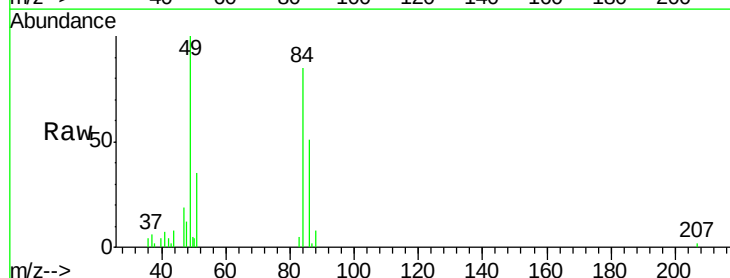
Ion Ratio Lower Upper

84 100

49 118.3 106.3 159.5

51 41.0 32.0 48.0

86 60.1 49.9 74.9

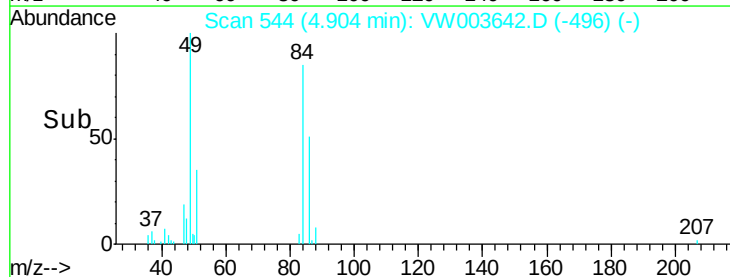
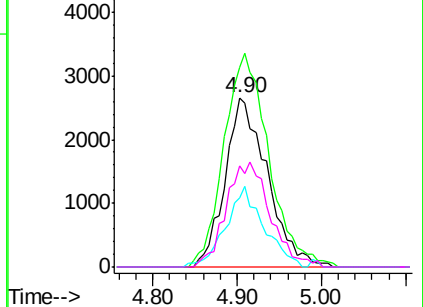


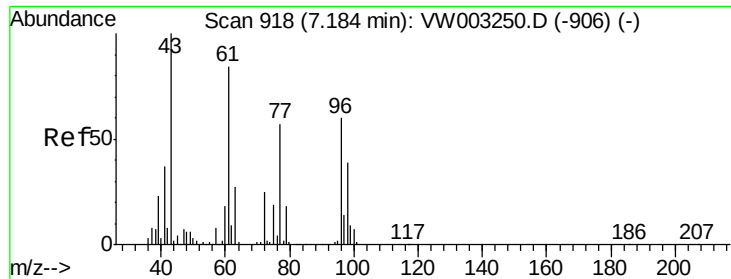
Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW





#25

2-Butanone

Concen: 10.631 ug/l

RT: 7.18 min Scan# 918

Delta R.T. 0.00 min

Lab File: VW003642.D

Acq: 28 Jun 2018 16:50

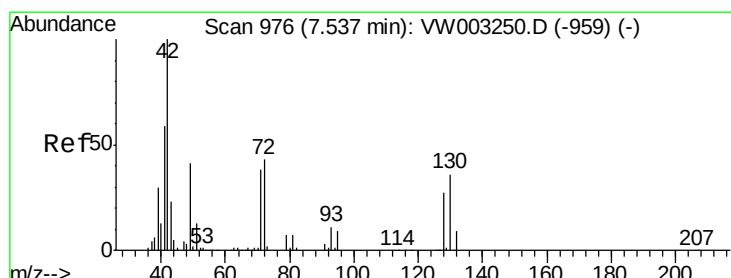
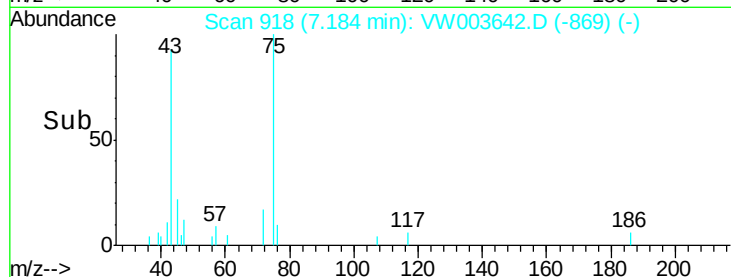
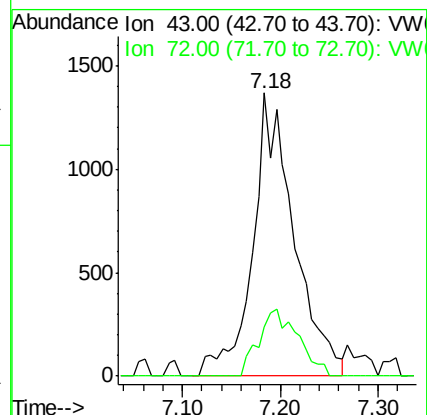
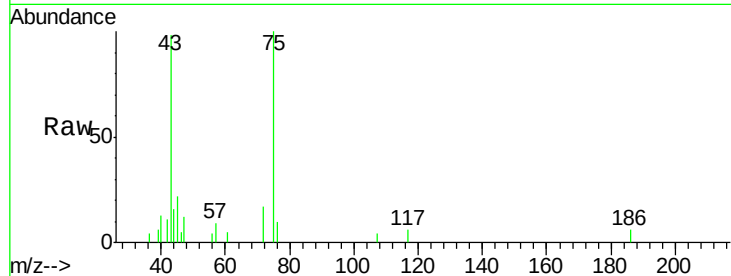
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 43 Resp: 4024

Ion Ratio Lower Upper

43 100

72 17.3 20.3 30.5#



#29

Tetrahydrofuran

Concen: 1.020 ug/l

RT: 7.55 min Scan# 978

Delta R.T. 0.01 min

Lab File: VW003642.D

Acq: 28 Jun 2018 16:50

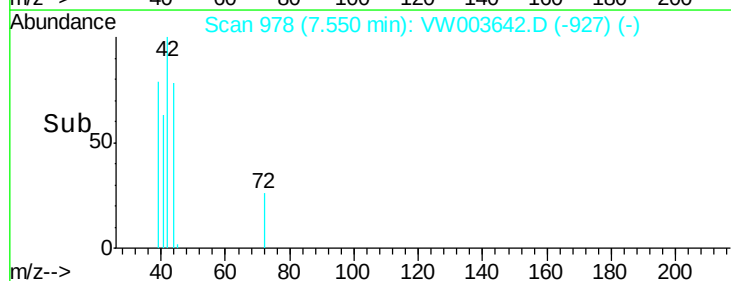
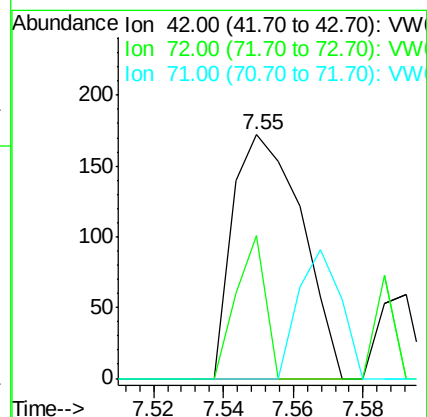
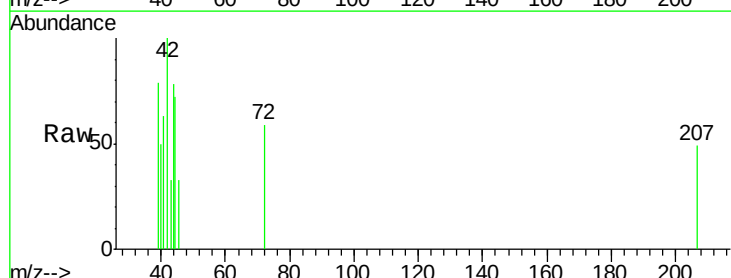
Tgt Ion: 42 Resp: 236

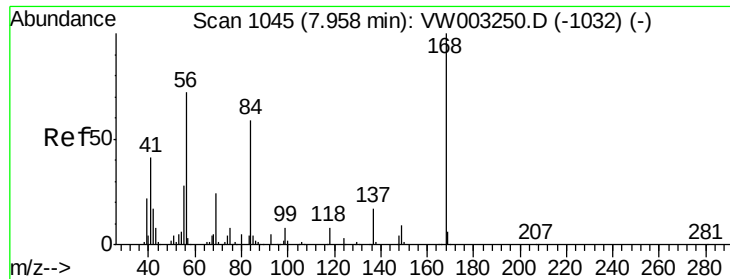
Ion Ratio Lower Upper

42 100

72 25.0 32.4 48.6#

71 33.1 31.2 46.8

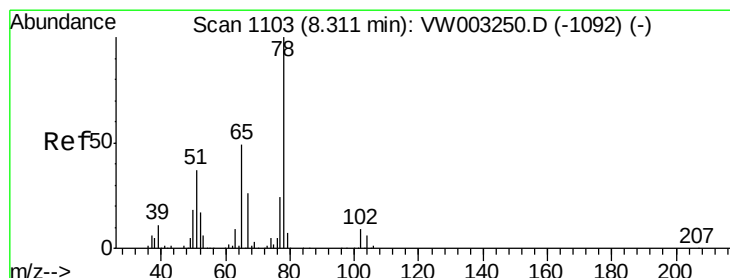
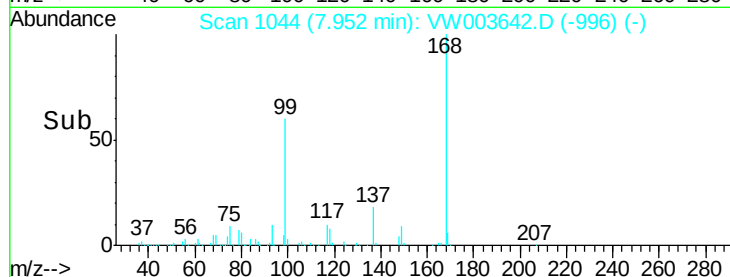
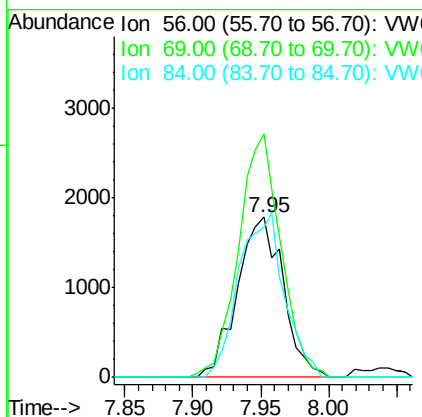
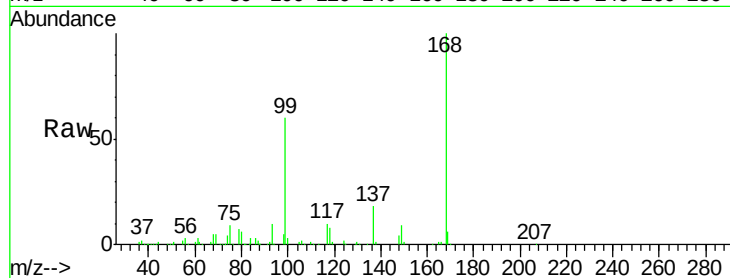




#31  
Cyclohexane  
Concen: 1.784 ug/l  
RT: 7.95 min Scan# 1044  
Delta R.T. -0.01 min  
Lab File: VW003642.D  
Acq: 28 Jun 2018 16:50

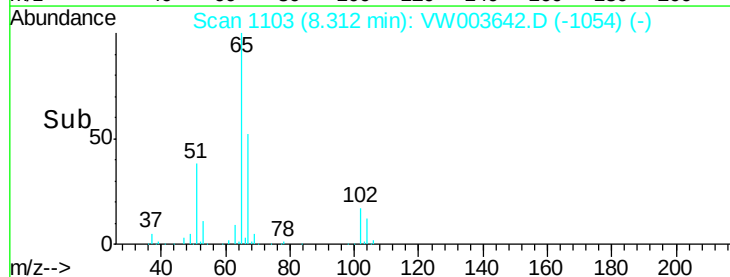
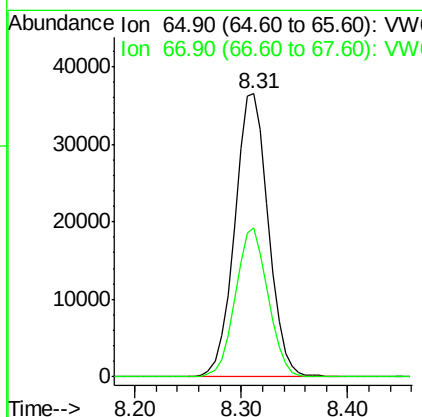
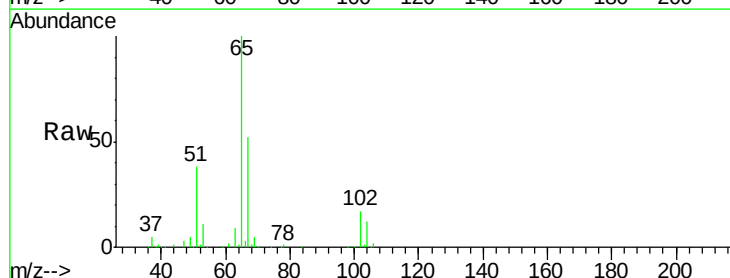
Instrument :  
MSVOA\_W  
ClientSampled :

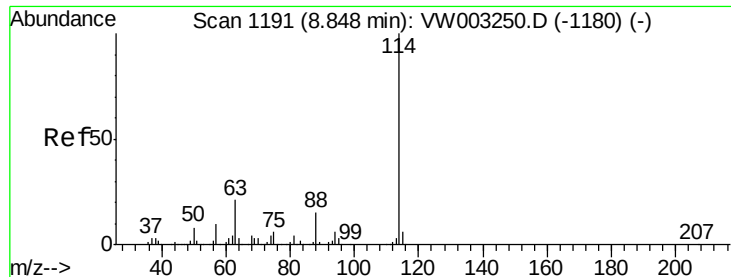
Tot Ion: 56 Resp: 4184  
Ion Ratio Lower Upper  
56 100  
69 152.3 26.3 39.5#  
84 94.0 65.7 98.5



#33  
1,2-Dichloroethane-d4  
Concen: 55.508 ug/l  
RT: 8.31 min Scan# 1103  
Delta R.T. 0.00 min  
Lab File: VW003642.D  
Acq: 28 Jun 2018 16:50

Tgt Ion: 65 Resp: 80561  
Ion Ratio Lower Upper  
65 100  
67 51.3 0.0 104.2

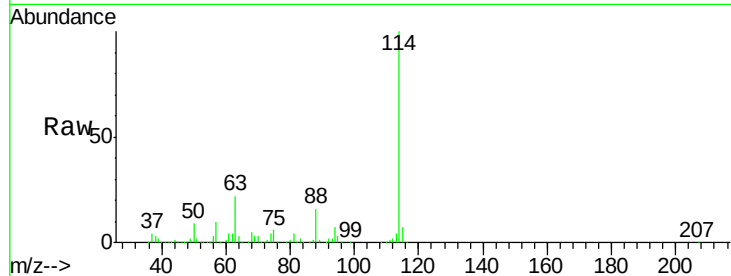




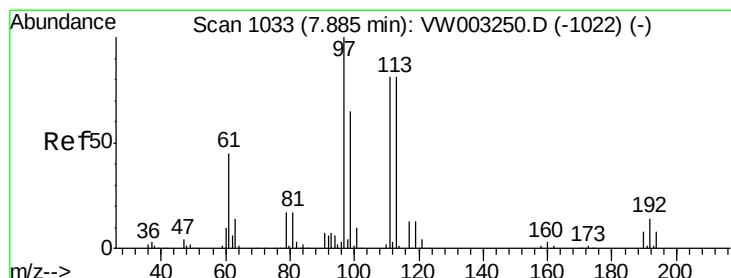
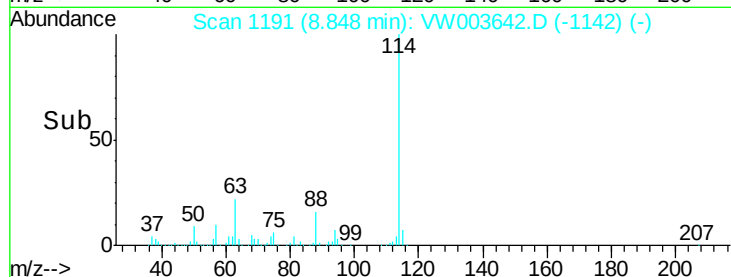
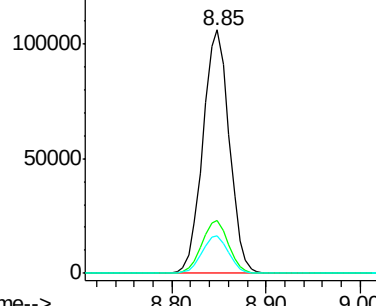
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. 0.00 min  
 Lab File: VW003642.D  
 Acq: 28 Jun 2018 16:50

Instrument :  
 MSVOA\_W  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.7  | 0.0   | 43.0  |
| 88      | 15.6  | 0.0   | 29.6  |

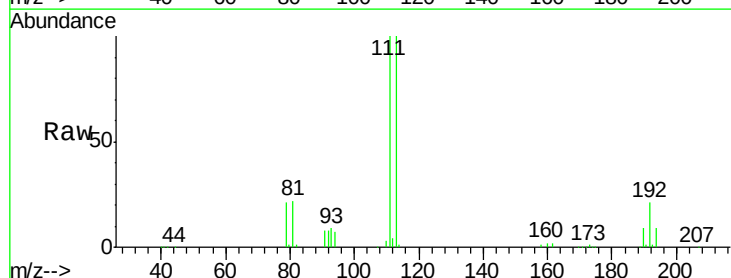


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

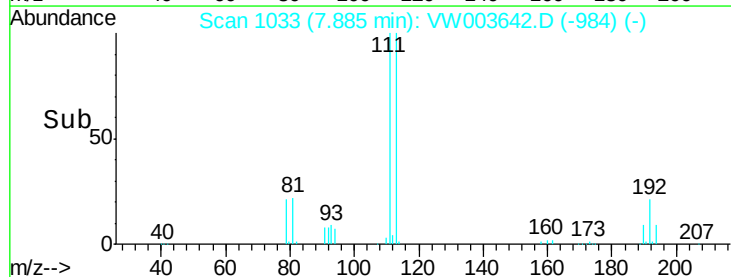
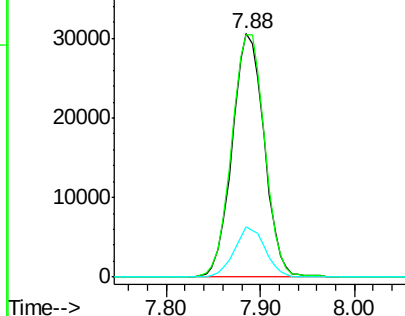


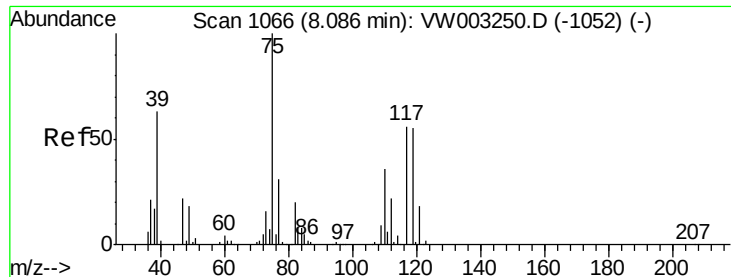
#35  
 Dibromofluoromethane  
 Concen: 56.013 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. 0.00 min  
 Lab File: VW003642.D  
 Acq: 28 Jun 2018 16:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.8 | 82.2  | 123.2 |
| 192     | 19.9  | 16.2  | 24.2  |



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

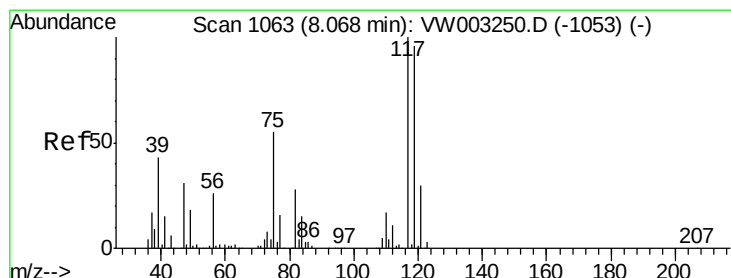
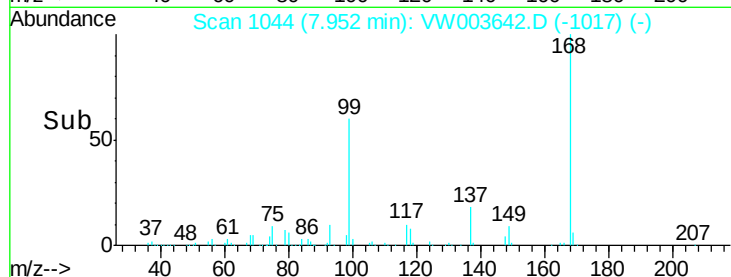
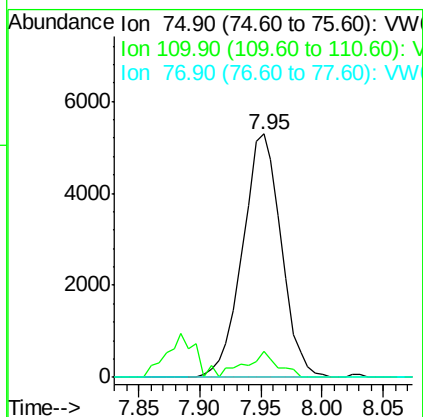
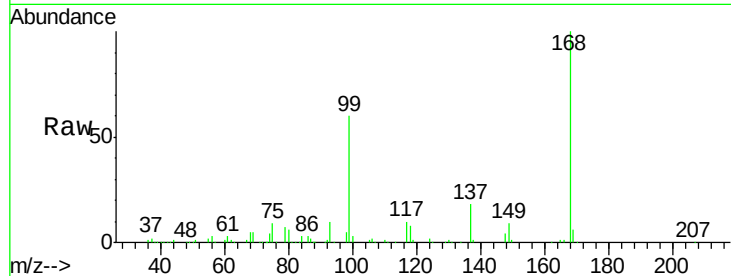




#36  
 1,1-Dichloropropene  
 Concen: 5.826 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.13 min  
 Lab File: VW003642.D  
 Acq: 28 Jun 2018 16:50

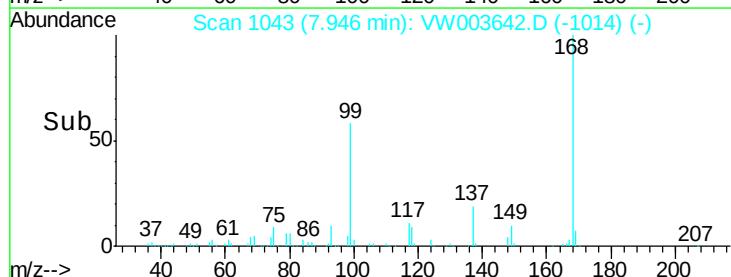
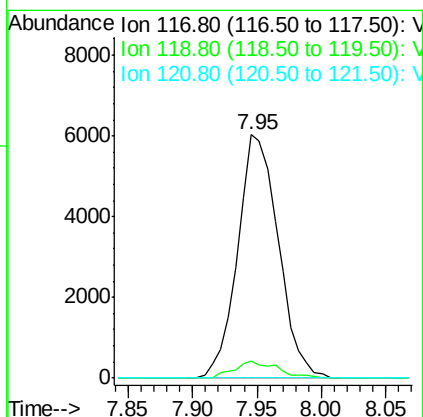
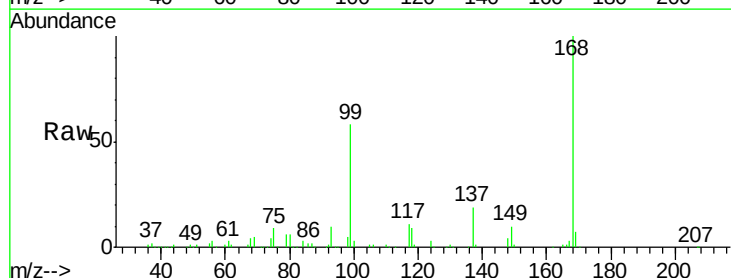
Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.9   | 17.1  | 51.3# |
| 77      | 0.0   | 24.9  | 37.3# |

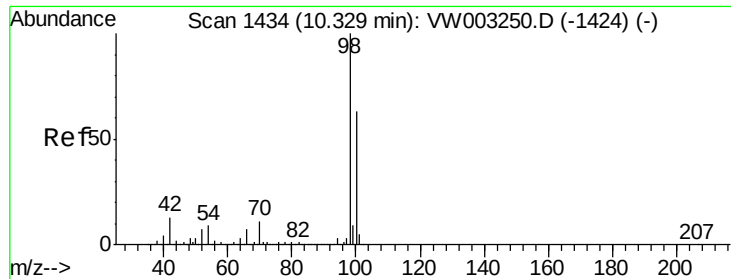


#38  
 Carbon Tetrachloride  
 Concen: 6.716 ug/l  
 RT: 7.95 min Scan# 1043  
 Delta R.T. -0.12 min  
 Lab File: VW003642.D  
 Acq: 28 Jun 2018 16:50

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.9   | 76.6  | 115.0# |
| 121     | 0.0   | 23.9  | 35.9#  |







#50

Toluene-d8

Concen: 45.340 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW003642.D

Acq: 28 Jun 2018 16:50

Instrument :

MSVOA\_W

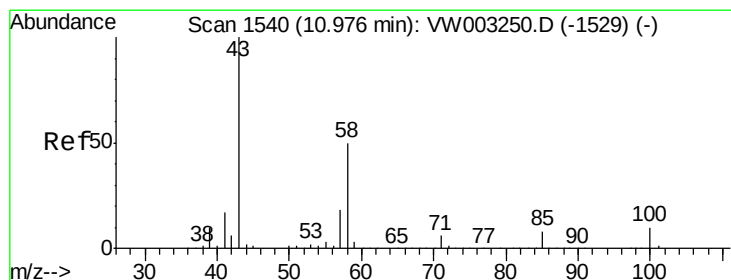
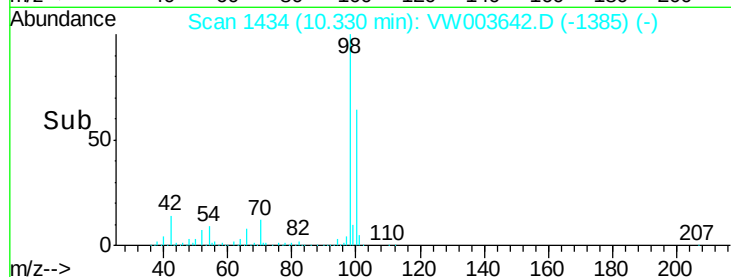
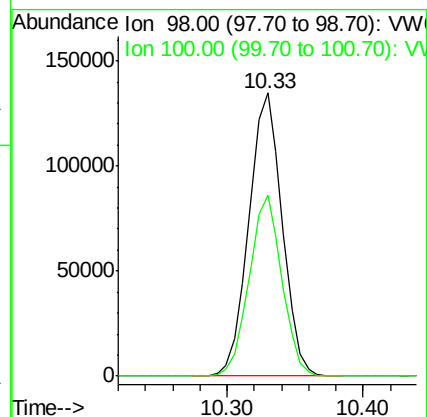
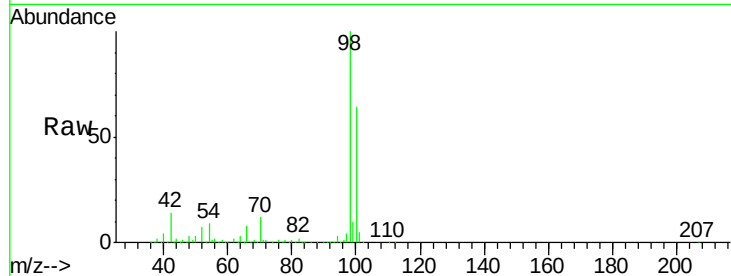
ClientSampled :

Tot Ion: 98 Resp: 231199

Ion Ratio Lower Upper

98 100

100 62.6 50.8 76.2



#59

2-Hexanone

Concen: 1.818 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.03 min

Lab File: VW003642.D

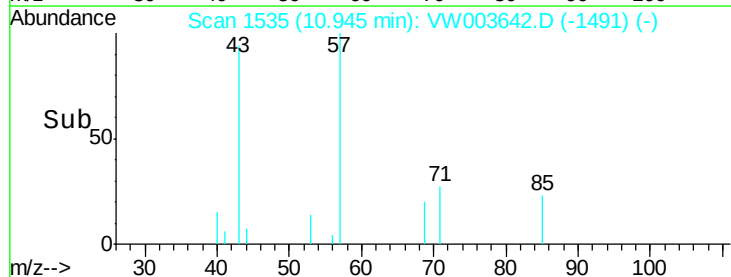
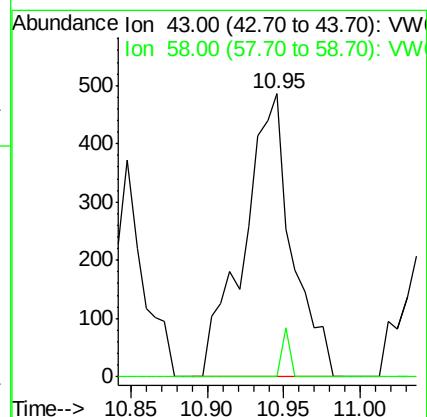
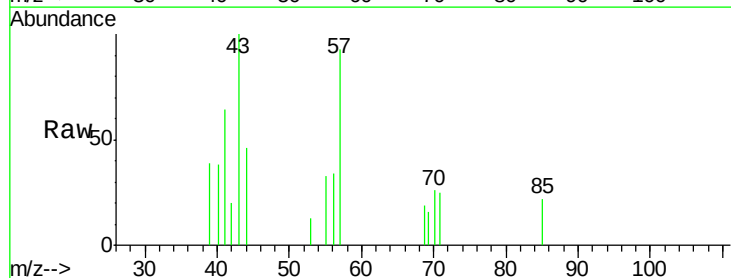
Acq: 28 Jun 2018 16:50

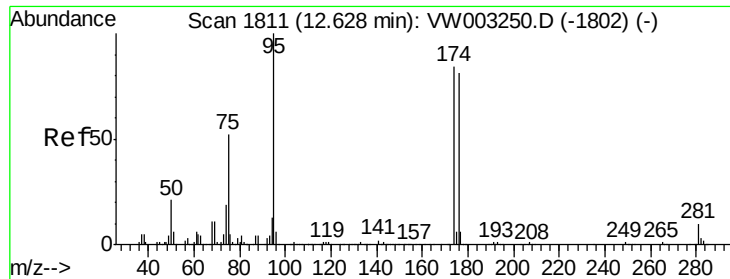
Tgt Ion: 43 Resp: 1064

Ion Ratio Lower Upper

43 100

58 2.9 25.0 75.0#

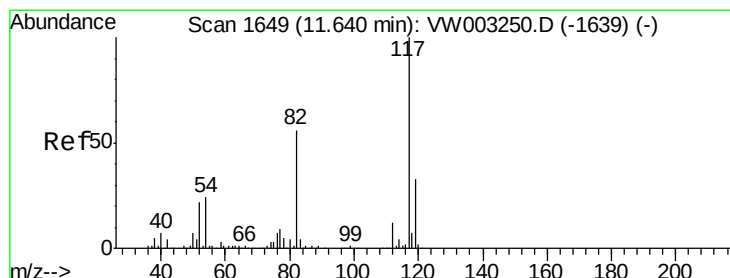
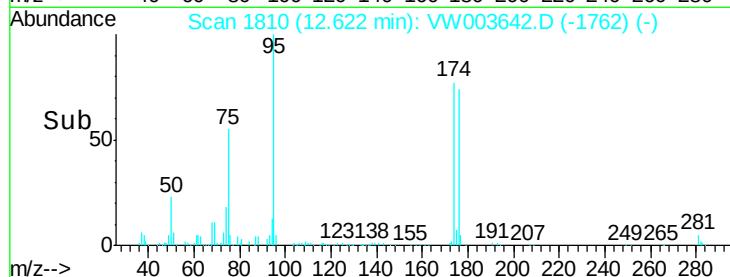
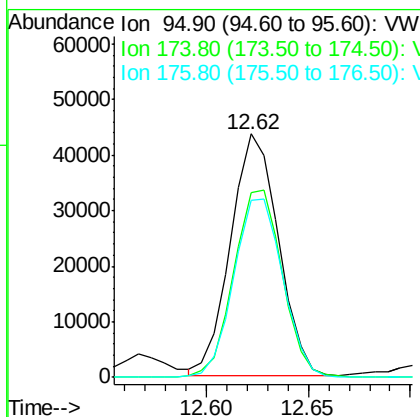
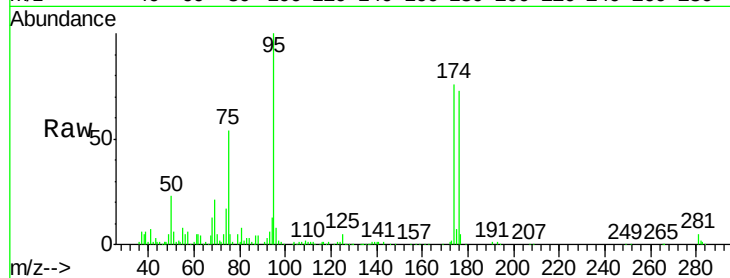




#62  
4-Bromofluorobenzene  
Concen: 39.069 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. -0.01 min  
Lab File: VW003642.D  
Acq: 28 Jun 2018 16:50

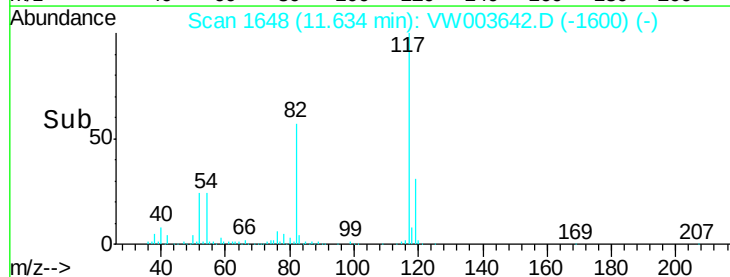
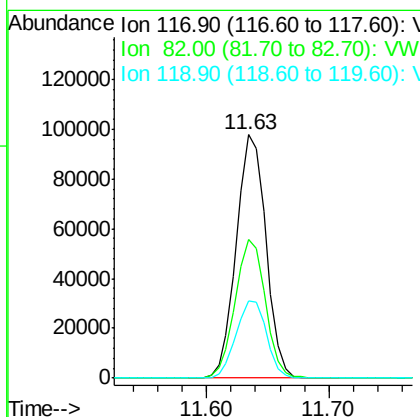
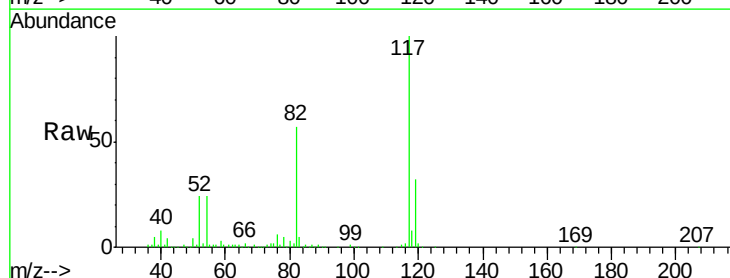
Instrument :  
MSVOA\_W  
ClientSampleId :

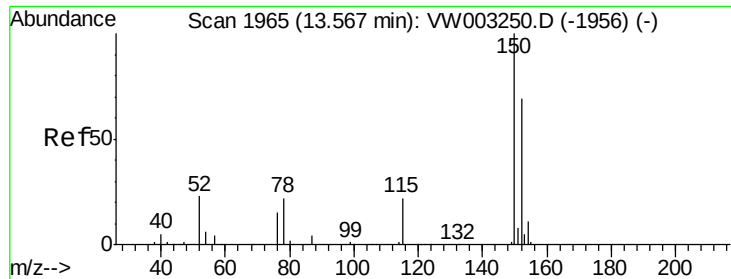
Tot Ion: 95 Resp: 70503  
Ion Ratio Lower Upper  
95 100  
174 78.8 0.0 166.4  
176 76.0 0.0 162.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.01 min  
Lab File: VW003642.D  
Acq: 28 Jun 2018 16:50

Tgt Ion: 117 Resp: 164155  
Ion Ratio Lower Upper  
117 100  
82 57.0 44.6 67.0  
119 31.5 26.7 40.1



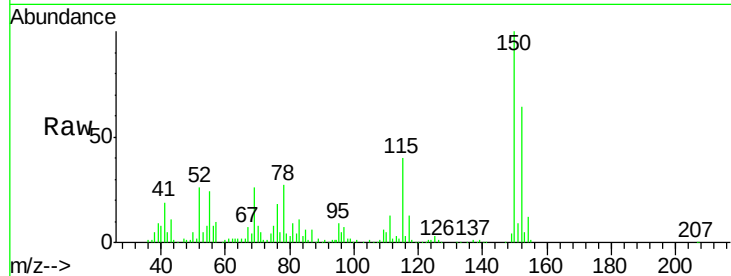


#72

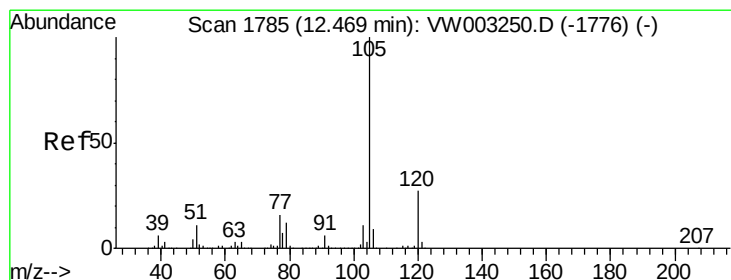
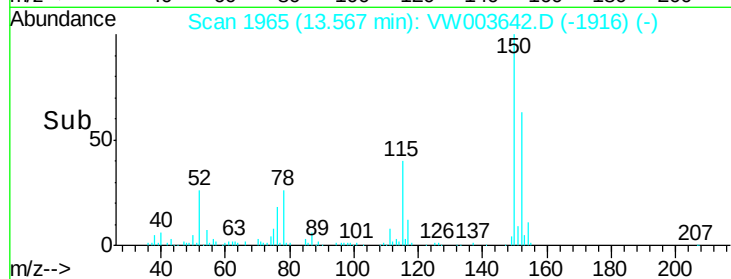
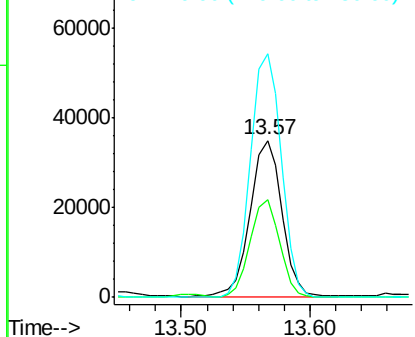
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. 0.00 min  
Lab File: VW003642.D  
Acq: 28 Jun 2018 16:50

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:152 Resp: 58875  
Ion Ratio Lower Upper  
152 100  
115 58.4 29.3 88.0  
150 152.7 0.0 349.6



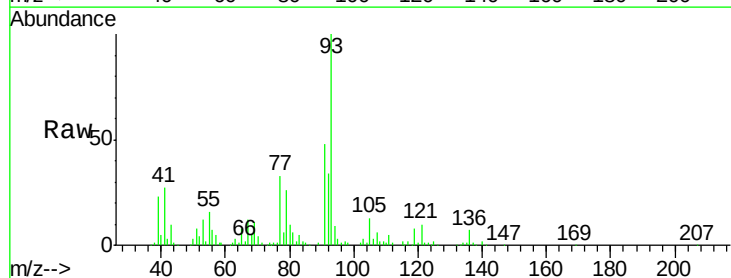
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



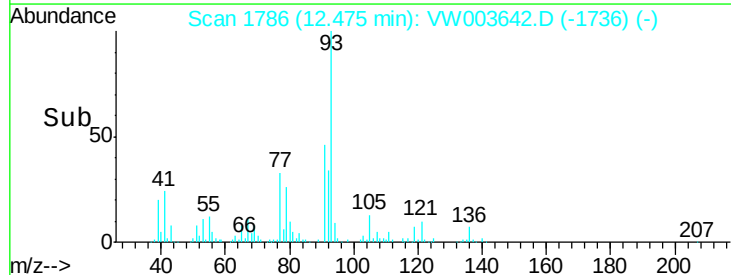
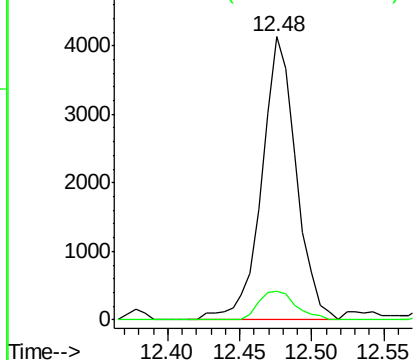
#73

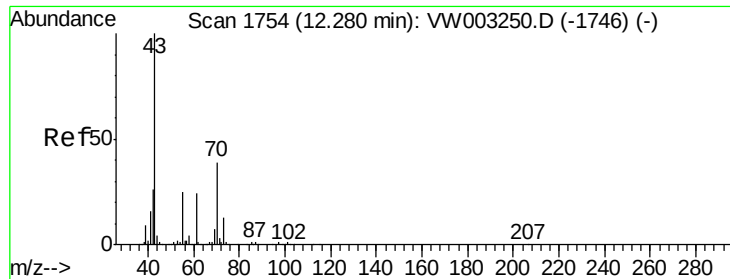
Isopropylbenzene  
Concen: 1.669 ug/l  
RT: 12.48 min Scan# 1786  
Delta R.T. 0.01 min  
Lab File: VW003642.D  
Acq: 28 Jun 2018 16:50

Tgt Ion:105 Resp: 6834  
Ion Ratio Lower Upper  
105 100  
120 10.9 13.2 39.6#



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 6.070 ug/l

RT: 12.23 min Scan# 1745

Delta R.T. -0.05 min

Lab File: VW003642.D

Acq: 28 Jun 2018 16:50

Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 43 Resp: 5658

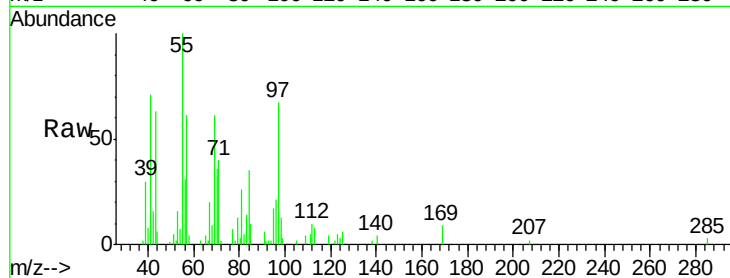
Ion Ratio Lower Upper

43 100

70 62.5 31.0 46.6#

55 180.3 19.7 29.5#

61 0.0 18.1 27.1#

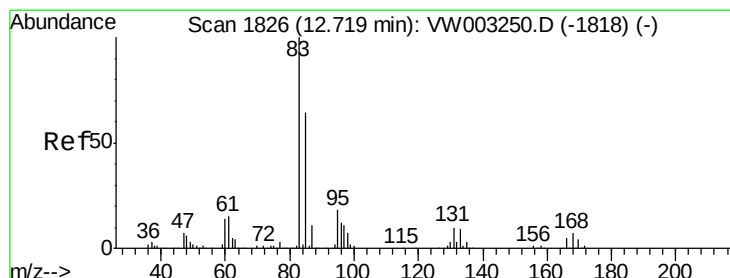
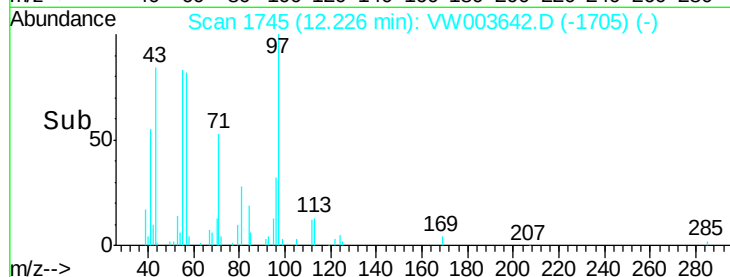
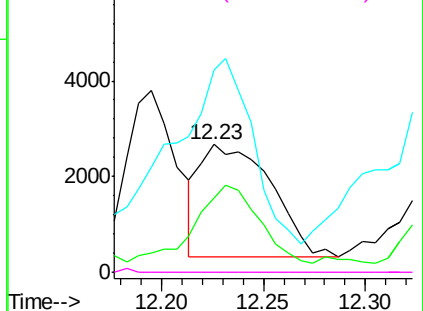


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#75

1,1,2,2-Tetrachloroethane

Concen: 6.241 ug/l

RT: 12.69 min Scan# 1821

Delta R.T. -0.03 min

Lab File: VW003642.D

Acq: 28 Jun 2018 16:50

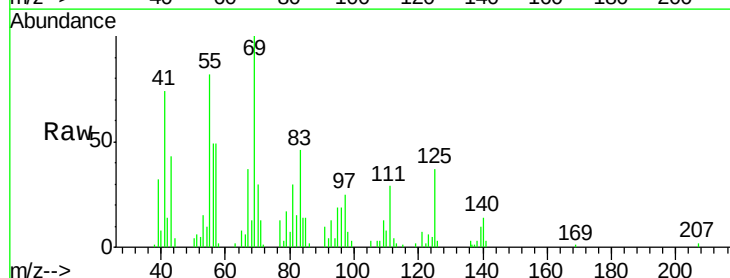
Tgt Ion: 83 Resp: 4324

Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

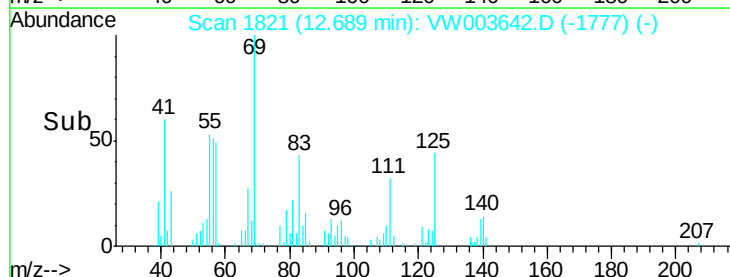
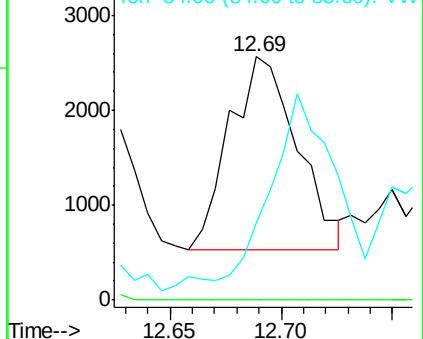
85 99.6 31.9 95.7#

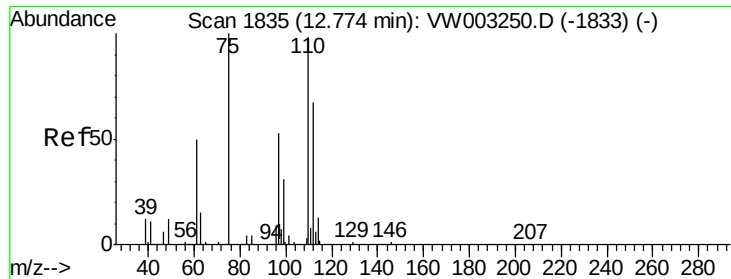


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW

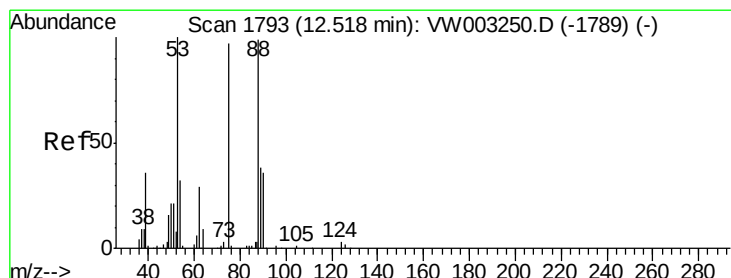
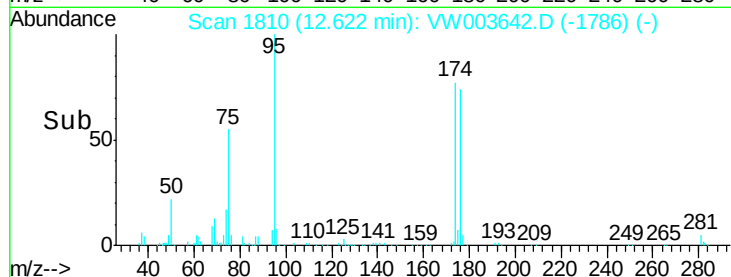
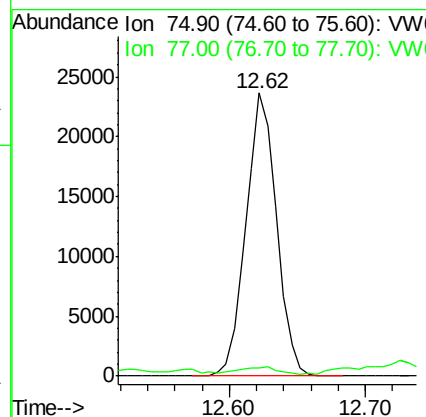
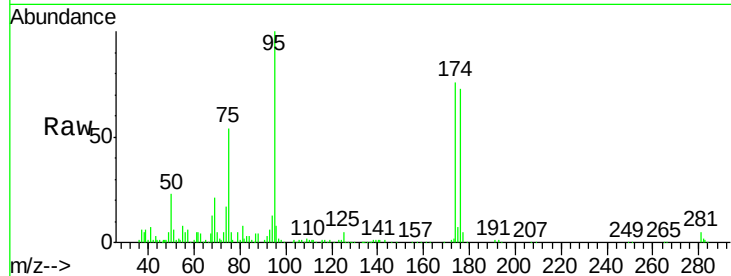




#76  
 1,2,3-Trichloropropane  
 Concen: 73.896 ug/l  
 RT: 12.62 min Scan# 1810  
 Delta R.T. -0.15 min  
 Lab File: VW003642.D  
 Acq: 28 Jun 2018 16:50

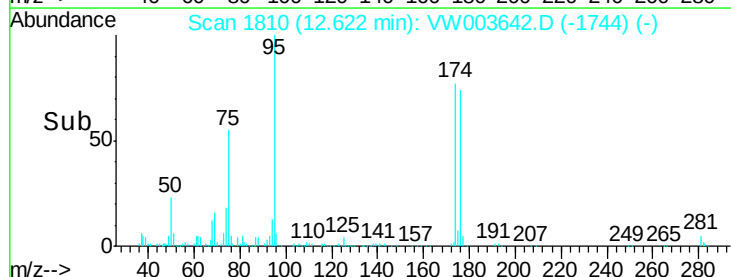
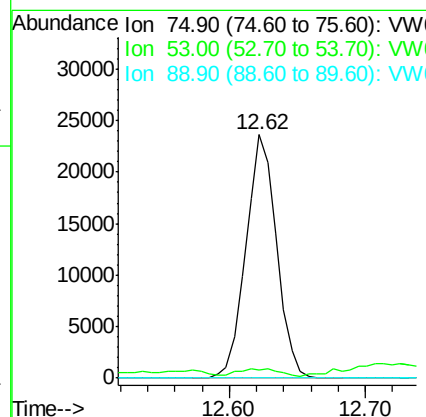
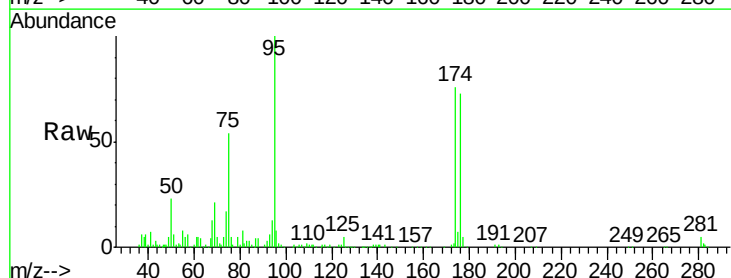
Instrument :  
 MSVOA\_W  
 ClientSampled :

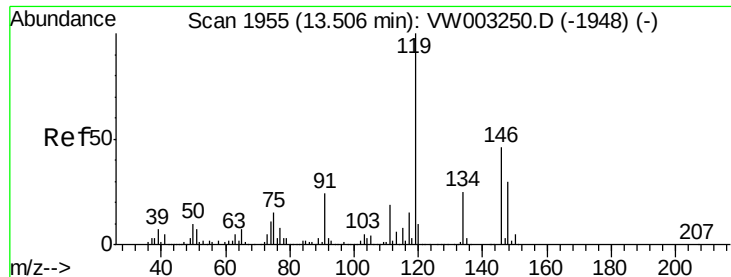
Tot Ion: 75 Resp: 37193  
 Ion Ratio Lower Upper  
 75 100  
 77 3.5 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 170.040 ug/l  
 RT: 12.62 min Scan# 1810  
 Delta R.T. 0.10 min  
 Lab File: VW003642.D  
 Acq: 28 Jun 2018 16:50

Tgt Ion: 75 Resp: 37193  
 Ion Ratio Lower Upper  
 75 100  
 53 4.0 82.9 124.3#  
 89 0.1 36.7 55.1#

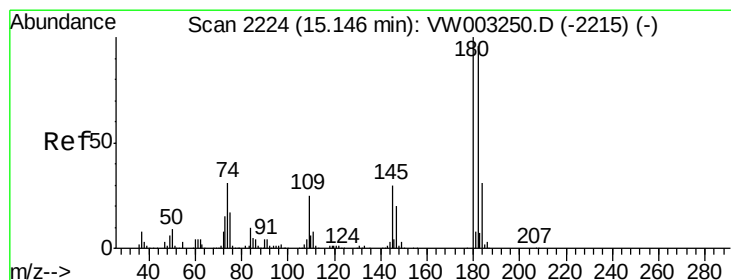
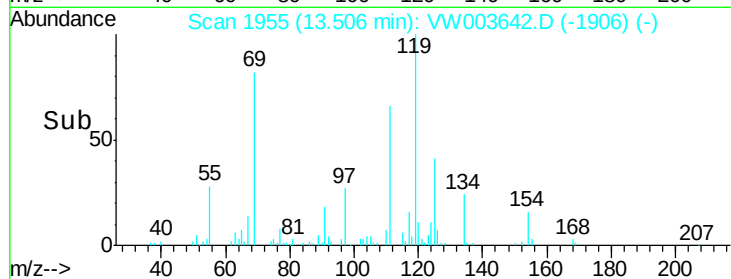
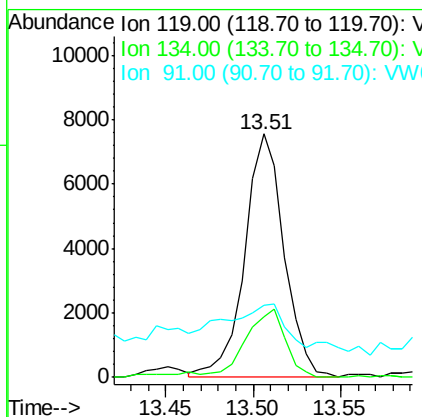
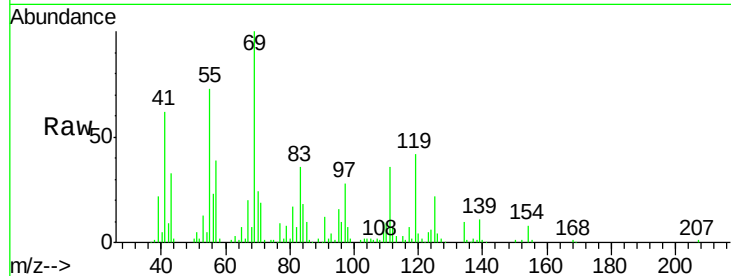




#86  
 p-Isopropyltoluene  
 Concen: 3.081 ug/l  
 RT: 13.51 min Scan# 1955  
 Delta R.T. 0.00 min  
 Lab File: VW003642.D  
 Acq: 28 Jun 2018 16:50

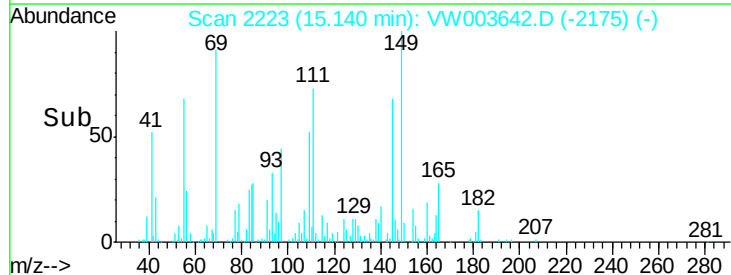
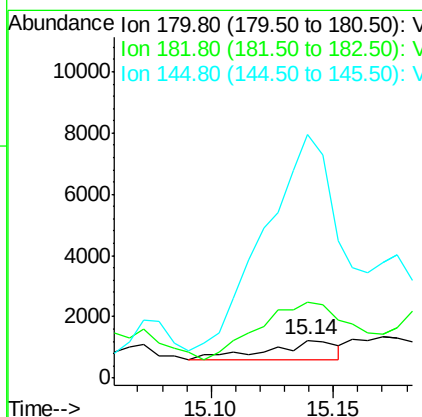
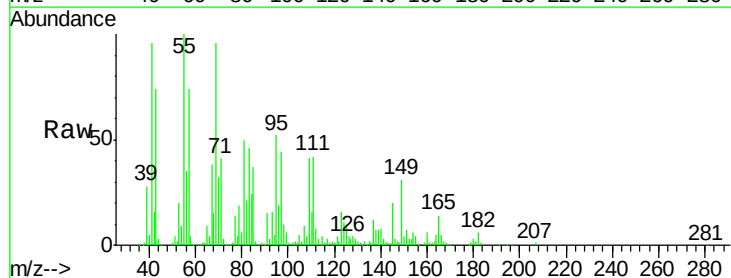
Instrument :  
 MSVOA\_W  
 ClientSampleId :

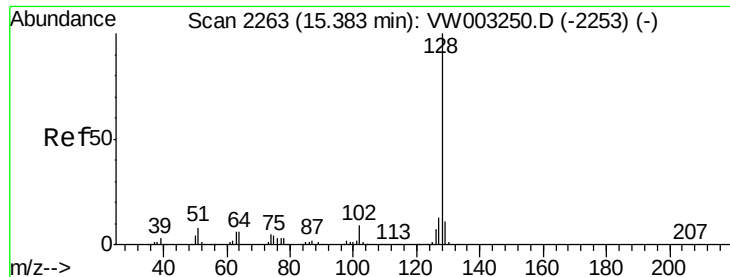
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 28.0  | 12.9  | 38.7  |
| 91      | 28.2  | 11.8  | 35.3  |



#93  
 1,2,4-Trichlorobenzene  
 Concen: 1.038 ug/l  
 RT: 15.14 min Scan# 2223  
 Delta R.T. -0.01 min  
 Lab File: VW003642.D  
 Acq: 28 Jun 2018 16:50

| Tgt Ion | Ratio  | Lower | Upper  |
|---------|--------|-------|--------|
| 180     | 100    |       |        |
| 182     | 413.7  | 47.9  | 143.6# |
| 145     | 1234.0 | 15.2  | 45.5#  |





#95

Naphthalene

Concen: 82.659 ug/l

RT: 15.38 min Scan# 2262

Delta R.T. -0.01 min

Lab File: VW003642.D

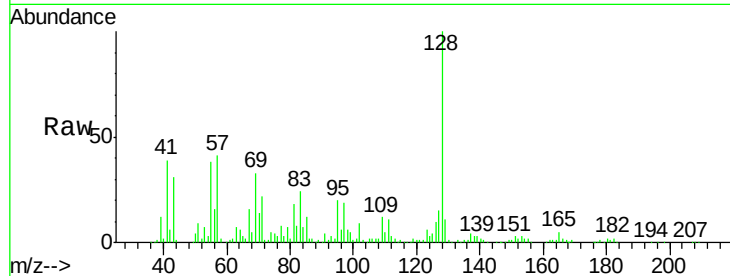
Acq: 28 Jun 2018 16:50

Instrument :

MSVOA\_W

ClientSampleId :

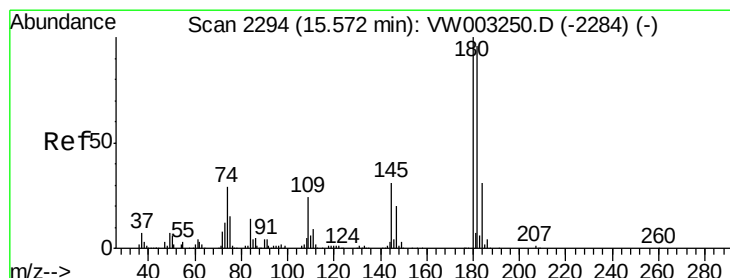
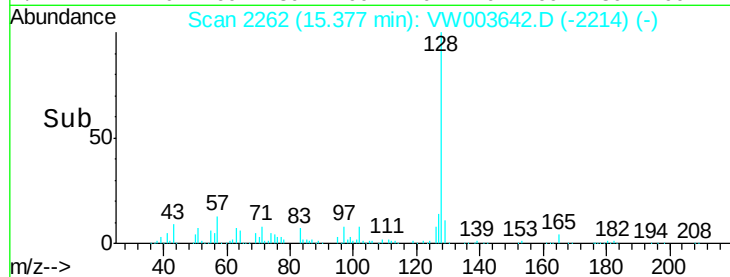
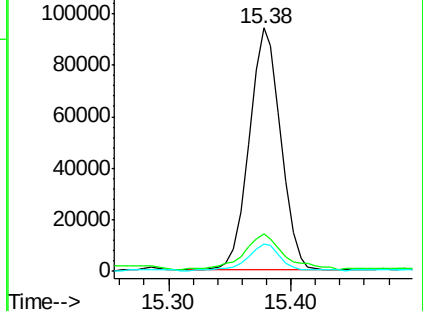
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 128   | Resp: | 168925 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 127      | 17.7  | 10.5  | 15.7#  |
| 129      | 11.0  | 8.9   | 13.3   |



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



#96

1,2,3-Trichlorobenzene

Concen: 3.594 ug/l

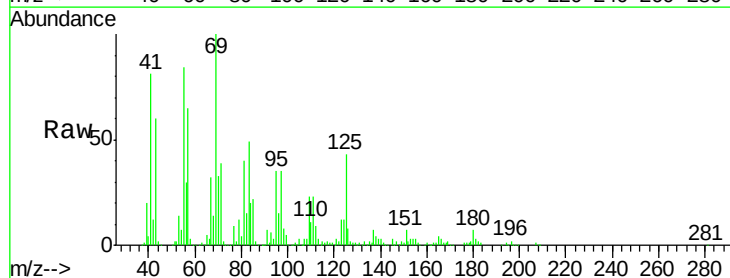
RT: 15.60 min Scan# 2298

Delta R.T. 0.02 min

Lab File: VW003642.D

Acq: 28 Jun 2018 16:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 3811  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 66.4  | 47.9  | 143.6 |
| 145      | 0.0   | 15.8  | 47.4# |



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

